ATTACHMENT 1

- Asbestos Permit Applications for the three (3) permits that have been granted thus far for the work conducted by Homeca

- Laboratory Sampling Results confirming the presence of asbestos in each section in samples taken in connection with pre-demolition inspection

GOBIERNO DE PUERTO RICO
OFICINA DEL GOBERNADOR
JUNTA DE CALIDAD AMBIENTAL

Área de Calidad de Aire

PUERTO RICO VERDE

SOLICITUD DE PERMISO GENERAL
MANEJO DE MATERIALES CON CONTENIDO DE ASBESTO

HOJA DE COTEJO

PG-ASB-57 09 10-0125R
PARA USO OFICIAL

☐ SOLICITUD INICIAL

	Documentos Solicitados	Sometido Solicitante	Recibido Uso oficial
1.	Un original y una copia del Formulario de la Solicitud de Permiso General Manejo de Materiales con Contenido de Asbesto completo en todas sus partes	☑	☑
2.	Plan de Trabajo de acuerdo con las Guías para Remociones de Asbesto del Reglamento para el Control de la Contaminación Atmosférica	☑	☑
3.	Plano o croquis de las estructuras o edificios donde se ilustra distribuida el área de trabajo. Incluye cuarto limpio, baño, cuarto sucio, sistema de aire negativo, salidas de aire limpio	☑	☐
4.	Plano de localización claro y legible	☑	☑
5.	Carta original de transportista(s)	☑	☑
6.	Carta original del lugar de disposición	☑	☐
7.	Copia de la tarjeta de registro vigente del Diseñador del Proyecto	☑	☐
8.	Copia de las tarjetas de registro vigentes de Trabajadores	☑	☐
9.	Copia de las tarjetas de registro vigentes de Supervisores	☑	☐
10.	Copia de las tarjetas de registro de los Especialistas en Muestreo	☑	☐
11.	Copia *AIHA Asbestos Analyst Registry (AAT Performance Results)* para los Especialistas en Muestreo presentados en la solicitud.	☑	☑
12.	Copia de la notificación a EPA ponchada con por lo menos 10 días laborables antes de la radicación si marcó Sí en el inciso II (H) de esta solicitud	☑	☑
13.	Pago correcto según requerido por el formulario de permiso general	☑	☐

2010 SEP -8 P 1:47 RADICACIÓN JCA

☐ MODIFICACIONES

	Documentos Solicitados	Sometido Solicitante	Recibido Uso oficial
1.	Un original y una copia del Formulario de la Solicitud de Permiso General Manejo de Materiales con Contenido de Asbesto completo en todas sus partes	☐	☐
2.	Copia del permiso que desea modificar	☐	☐
3.	Carta explicativa de la modificación solicitada (por ej. si es un aumento en yardas cúbicas, explicación de la diferencia)	☐	☐
4.	Para cambio de laboratorio, copia de las tarjetas de registro de los Especialistas en Muestreo	☐	☐
5.	Para cambio de transportista, carta original del nuevo transportista(s)	☐	☐
6.	Para cambio de lugar de disposición, carta original del lugar de disposición	☐	☐
7.	Pago correcto según requerido por el formulario de permiso general	☐	☐

☐ TRANSFERENCIAS

	Documentos Solicitados	Sometido Solicitante	Recibido Uso oficial
1.	Un original y una copia del Formulario de la Solicitud de Permiso General Manejo de Materiales con Contenido de Asbesto completo en todas sus partes	☐	☐
2.	Copia del permiso que desea transferir	☐	☐
3.	Acuerdo firmado por las partes que incluya la fecha de transferencia	☐	☐
4.	Pago correcto según requerido por el formulario de permiso general	☐	☐

JUNTA DE CALIDAD AMBIENTAL

PARA USO OFICIAL

Recibido por: _____ Fecha: 28/09/2010
Representante autorizado JCA (Día / Mes / Año)

Dirección Física: Edificio de Agencias Ambientales Cruz A. Matos, Urbanización San José Industrial Park
1375 Avenida Ponce de León, San Juan, PR 00926-2604 • Teléfono 787-767-8181 • Fax 787-756-5906
Dirección Postal: Apartado 11488, San Juan, PR 00910

ESTADO LIBRE ASOCIADO DE PUERTO RICO
Oficina del Gobernador
Junta de Calidad Ambiental

Área de Calidad de Aire

SOLICITUD DE PERMISO GENERAL
MANEJO DE MATERIALES CON CONTENIDO DE ASBESTO

☒ SOLICITUD NUEVA
☐ MODIFICACIÓN
☐ TRANSFERENCIA

PG-ASB-57-09-10-01250a
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I. IDENTIFICACIÓN DE PERSONAS Y ENTIDADES RESPONSABLES

Entidad	Nombre y Seg. Soc. Patronal	Dirección Física	Dirección Postal
Dueño	Tallaboa Industrial Park SS 660 - 72 - 0694 roberto@procaribe.com Correo Electrónico	Carr. 385 Km 5.4 Bo. Tallaboa Poniente Peñuelas, PR 00624 Teléfono: 939-940-2074	Carr 385 Km 5.4 Bo. Tallaboa Poniente Peñuelas, PR 00624 Fax: 787-836-2026
Agente o Rep. Autorizado	Homeca Recycling SS 660 - 59 - 6814 lechevarria@homecarecycling.com Correo Electrónico	1508 Paseo Fagot Suite 3 Urb. Jardines de Fagot Ponce, PR 00716 Teléfono: 787-689-6150	PO BOX 231 Mercedita, PR 00715 Fax: 1-800-981-1218

II. INFORMACIÓN DEL PROYECTO

A. Nombre del Proyecto: Desmantelamiento Antigua Planta Olefins

B. Localización Física: Carr 385 (Calle o Carretera) Km 5.4 (Núm. o Km)
Bo. Tallaboa Poniente (Barrio) Peñuelas, PR 00624 (Pueblo)

C. Localización del Proyecto en Coordenadas Lambert (Stateplane NAD83): X: 42.821844 Y: 37.180722

D. Fecha estimada: Inicio de obras: 27/09/10 (Día / Mes / Año) Terminación de las obras: 27/09/11 (Día / Mes / Año)

E. Cantidad de mca[1] a removerse: 550 yardas[3] 13,000 pies[2] 11,000 pies lineales

F. Cantidad de mca a generarse: 550 yardas[3]

G. Descripción (identificación edificio, piso, etc.) de la estructura(s) donde se removerá el mca:
Los trabajos se realizaran en la Antigua Planta Petroquimica

H. ¿El mca a removerse cumple con la definición de mca regulado según el 40 CRF[2] §61.141 y le aplica el 40 CRF §61.145(b)?
Sí [X] No [ ]
Se le apercibe que la determinación incorrecta de esta clasificación del material y el no emitir la notificación aplicable, podrá conllevar la revocación del permiso y la imposición de las multas correspondientes.

I. **Certificación del Diseñador del Plan de Trabajo:** Certifico que el Plan de Trabajo que se incluye con esta solicitud de permiso fue preparado de acuerdo con las Guías para Plan de Trabajo para Remociones de Asbesto del Reglamento para el Control de la Contaminación Atmosférica (RCCA), las buenas prácticas y siguiendo las reglamentaciones federales y estatales aplicables del 40 CRF Parte 763 y Parte 61 Subparte M, del 29 CRF §§1910.1001, 1910.134, 1926.1101, de la Regla 422 del Reglamento para el Control de la Contaminación Atmosférica y la Regla 1005 de la Regla de Manejo de Desperdicios No-Peligrosos.

Firma del Diseñador de Proyecto (en original)

JCA RADICACIONES 2010 SEP -8 PM 1:47

[1] mca: material con contenido de asbesto
[2] Código de Regulaciones Federales

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III. CERTIFICACIÓN DE INFORMACIÓN POR EL DUEÑO

Yo, Ramon S. Gonzalez (Nombre, Inicial, Apellidos) mayor de edad, casado (Estado Civil), vecino de San Juan (Municipio) y que ocupo la posición de Presidente en Tallaboa Industrial Park (Organización, Agencia, Compañía u otro)

Certifico que:

1. Mi nombre y demás circunstancias personales son las antes indicadas.
2. Toda la información vertida en esta solicitud y en los documentos que se acompañan es cierta, correcta y completa a mi mejor saber y entender.
3. Afirmo y reconozco las consecuencias de incluir y someter información falsa o incompleta en dichos documentos.
4. Autorizo a Christopher Lugo (Nombre, Inicial, Apellidos), que ocupa la posición de Asistente Gerente en Homeca recycling (Organización, Agencia, Compañía u otro) a radicar y llevar a cabo las gestiones necesarias, relacionadas con este permiso, en mi nombre y representación ante la Junta.

Y para que así conste, firmo la presente certificación en San Juan (Municipio) de Puerto Rico, hoy 22/Sept/2010 (Día / Mes / Año).

Firma del dueño (en original)

IV. IDENTIFICACIÓN DE SERVICIOS Y ENTIDADES RESPONSABLES: Debe incluir como mínimo un laboratorio, un transportador y un lugar de disposición.

Entidad	Nombre, Núm. Registro o permiso	Dirección Física	Dirección Postal
Diseñador de Proyecto	Adolfo Valdes Agra ASB- 1109- 0553-PD Vence: 10/ 25 / 2010 Correo Electrónico	Urb. Los Almendros Calle Lady Di Ponce, PR 00716 Teléfono: 787-504-0279	PO BOX 219 Mercedita, PR 00715 Fax: 787-842-8542
Laboratorio	The Atsmospheric Assessment Group SS 660 - 53 - 7474 Correo Electrónico	Condominio Irizarry 1 y 2 B. Ave. Las Americas Ponce, PR 00732 Teléfono: 7878428592	PO BOX 219 Mercedita, PR 00715-0219 Fax:7878428542
	AES International, INC SS 660 - 49 - 5330 aesint@coqui.net Correo Electrónico	611 Monserrate ST 2nd Floor Santurce, PR Teléfono: 787-722-0220	611 Monserrate ST 2nd Floor Santurce, PR Fax:787-724-5788
Transportador	RE Environmental Group Núm. SR - 58 - 0574 Vence: 06 /mayo /2014 reenvironmentalgroup@gmail.com Correo Electrónico	Sunset Park, # 10 Arroyo, PR 00714 Teléfono:787-864-8855	PO BOX 479 Arroyo, PR 00714 Fax: 787-864-8844
	Núm. SR - ____ - ____ Vence: ____/____/____ Correo Electrónico	Teléfono:	Fax:
	Núm. SR - ____ - ____ Vence: ____/____/____ Correo Electrónico	Teléfono:	Fax:
	Núm. SR - ____ - ____ Vence: ____/____/____ Correo Electrónico	Teléfono:	Fax:

SOLICITUD DE PERMISO GENERAL
MANEJO DE MATERIALES CON CONTENIDO DE ASBESTO
PÁGINA 3 DE 7

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Lugar de Disposición	Allied Waste Núm. IDF - 58 - 0008 Vence: 22 /nov /2014 w.valenzuela@republicservice.com Correo Electrónico	Bo. Cotorra Ave. Baramaya Final Ponce, PR 00732 Teléfono: 787-841-7775	PO BOX 7104 PONCE, PR 00732 Fax:7 787-841-1048
	Núm. IDF - ___ - ___ Vence: ___/___/___ Correo Electrónico	Teléfono:	Fax:

V. DETERMINACIÓN ADMINISTRATIVA (PARA USO OFICIAL)

Este permiso podrá ser revocado (cancelado) antes de la fecha de vencimiento si se violan las condiciones del permiso o las disposiciones del Reglamento para el Control de la Contaminación Atmosférica, del Reglamento para el Manejo de Desperdicios Sólidos o del Reglamento para el Trámite de los Permisos Generales. La información y condiciones sometidas en su solicitud forman parte de esta autorización. La Junta se reserva el derecho de intervenir con la fuente en otros aspectos no cubiertos en esta autorización.

Fecha de expedición: 28/09/2010 (Día / Mes / Año)

Fecha de expiración: 27/09/2011 (Día / Mes / Año)

Firma Representante JCA

PG-ASB-37.09.10-0125

PARA USO OFICIAL

CONDICIONES PERMISO GENERAL PARA EL MANEJO DE MATERIALES CON CONTENIDO DE ASBESTO (CONTINUACIÓN)

22. Deberá utilizar dos capas de polietileno de 4 milésimas de espesor en las paredes y dos capas de 6 milésimas de espesor en el suelo.

23. En caso de trabajos de remoción de estucado de techo utilizando agua a presión deberá cumplir con lo siguiente:

    a) el sistema que se utilice para remover el estucado deberá instalarse, conservarse y operarse de acuerdo con las condiciones especificadas por el fabricante;
    b) deberá asegurarse de cubrir las paredes de tal manera que los plásticos no se desprendan durante la remoción;
    c) colocará diques en las puertas para asegurarse que el agua no se filtre hacia el exterior;
    d) deberá sellar adecuadamente los drenajes que se encuentren dentro del área de trabajo;
    e) el agua utilizada en la remoción deberá ser colectada mediante equipos de succión equipados con filtros HEPA;
    f) el agua colectada deberá ser filtrada en un sistema de filtros HEPA. Los filtros estarán colocados en serie de tal forma que el tamaño del poro disminuya progresivamente (100, 50 y 5 micrones).
    g) evitará usar agua en exceso la cual pudiera ganar acceso al terreno o a los cuerpos de agua a través de los drenajes o que pudiera filtrarse fuera del encierre.
    h) el agua una vez filtrada se dispondrá a través del sistema de alcantarillado sanitario.

24. En caso de trabajos de remoción de materiales de impermeabilización de techo deberá cumplir con lo siguiente:

    a) mantendrá el material húmedo en todo momento;
    b) evitará barrer en seco;
    c) los equipos de remoción estarán equipados con aspersores de agua o equipos de succión equipados con filtros HEPA; y
    d) evitará usar agua enmendada en exceso la cual pudiera ganar acceso al terreno o a los cuerpos de agua a través de los drenajes del agua de lluvia, respiraderos o ventiladores.

25. En caso de trabajos de remoción de pegamento de losas de vinilo mediante el uso de solventes deberá cumplir con lo siguiente:

    a) mantendrá copia de la hoja de datos de seguridad del material (MSDS, en inglés) del solvente a utilizarse en el lugar de trabajo en todo momento;
    b) deberá cumplir con todas las especificaciones establecidas en la hoja de datos de seguridad del material al manejar el mismo;
    c) evitará utilizar el solvente en lugares donde se registran altas temperaturas;
    d) deberá aislar el área de trabajo e instalar rótulos de precaución;
    e) deberá sellar el área de trabajo con plástico de 6 milésimas;
    f) mantendrá ventilación mecánica con filtros HEPA; y
    g) evitará que el solvente entre a los drenajes del edificio los cuales a su vez pudieran llegar al alcantarillado pluvial o sanitario.

26. Durante los trabajos de remoción de losas de vinilo mediante aplicación de calor deberá cumplir con lo siguiente:

    a) las losas de vinilo deberán estar en buenas condiciones;
    b) deberá examinar previamente las losas de vinilo para determinar si las mismas pudieran convertirse en desmenuzables durante la remoción;
    c) no podrá remover el pegamento de la losa mediante la técnica de aplicación de calor;
    d) evitará usar calor en exceso lo cual pudiera ocasionar incendios;
    e) deberá aislar el área de trabajo e instalar rótulos de precaución;
    f) deberá sellar el área de trabajo con plástico de 6 milésimas;
    g) mantendrá ventilación mecánica con filtros HEPA; y
    h) los trabajadores deberán utilizar respiradores equipados con filtros para vapores orgánicos.

27. Deberá preparar un área de descontaminación (decon) conectada junto al área regulada que incluya, sin limitarse a, un cuarto limpio, baño y un cuarto sucio.

28. En los trabajos Categoría I para la remoción de aislamiento de tuberías, las bolsas de guantes se pueden usar solamente para remover no más de 3 pies lineales al mismo tiempo. Para cantidades mayores de 3 pies lineales será necesario la construcción de un mini encierre o encierre completo. Una bolsa de plástico con guantes internos que provee un área encerrada para manejar las herramientas y el material con contenido de asbesto.

29. Las bolsas de guantes no deben utilizarse en superficies con una temperatura mayor de 150°F (65°C).

30. Al usar bolsas de guantes seguirá las reglas existentes en trabajos mayores para evitar que las fibras de asbesto lleguen al aire, esto incluye, pero sin limitarse a:

    a) mantener húmedo el asbesto.
    b) aislar el área de trabajo e instalar rótulos de precaución.
    c) filtrar el aire utilizando filtros HEPA.
    d) mantener presión negativa de aire dentro de la bolsa usando aspirador con filtro HEPA.
    e) las bolsas de guantes deberán tener rótulos de precaución de acuerdo con la reglamentación vigente.
    f) realizar muestreos de aire antes durante y después de las actividades de remoción y deberá realizar muestreo de aire personal durante dichas actividades.

31. Durante trabajos de remoción de escombros que se encuentren sobre el terreno, deberá colectar y disponer todo el terreno contaminado con partículas del material con asbesto las cuales no puedan ser colectadas manualmente o con aspiradoras HEPA.

PROTECCIÓN PERSONAL

32. Deberá cumplir con las medidas de seguridad y equipo de protección personal especificados en su plan de remoción de asbesto según la reglamentación que especifica la Oficina de Seguridad y Salud en el Trabajo (OSHO) del Departamento del Trabajo y Recursos Humanos.

MONITOREO GENERAL (MUESTRAS DE AIRE)

33. El análisis de las muestras de aire tomadas durante los trabajos de remoción estará a cargo de el/los laboratorio/s identificado/s en este formulario de solicitud de permiso general. El laboratorio contratado deberá estar acreditado por la *American Industrial Hygiene Association* (AIHA, en inglés). De haber algún cambio de laboratorio, deberá someter antes una modificación a este permiso.

34. Deberá realizar los muestreos de aire antes, durante y al finalizar la actividad de remoción.

35. Tomará un mínimo de seis muestras de aire al día.

36. Deberá realizarle muestras personales diarias al 25% de los trabajadores que se encuentren laborando en la actividad de remoción. Estas muestras deberán incluir el nombre y el número de registro otorgado por la Junta de cada persona que realice las muestras.

37. Las muestras de aire personales, de área y finales serán analizadas mediante el Método NIOSH 7400 – Microscopía de Contraste de Fase (PCM, en inglés).

38. Las muestras de aire de área deberán incluir la información por el nombre del edificio, las áreas específicas de los edificios y las estructuras de la planta donde se realicen. Este deberá realizarlo un especialista en muestreo, certificado y autorizado por la Junta. Deberán incluir el nombre y el número de registro otorgado por la Junta de cada persona que realice las muestras.

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CONDICIONES PERMISO GENERAL PARA EL MANEJO DE MATERIALES CON CONTENIDO DE ASBESTO (CONTINUACIÓN)

39. Deberá limpiar el cuarto con paños húmedos y esperar veinticuatro (24) horas. Limpiar el cuarto de nuevo con paños húmedos y aspirado de filtro HEPA. El cuarto se considera limpio cuando solamente hay 0.005 fibras por centímetro cúbico (f/cc).

40. Si la remoción de material con contenido de asbesto se realiza en una escuela pública o privada, las muestras de aire tomadas luego de la limpieza final (*Clearance*) serán analizadas mediante el método de Microscopía de Transmisión de Electrones (TEM, en inglés). El análisis se hará de acuerdo con los requisitos aplicables en el 40 CRF, Parte 763, Subparte E.

41. Si durante los trabajos de remoción surge la necesidad de tomar muestras de otros materiales sospechosos, los mismos deberán ser muestreados por un inspector certificado y registrado en la Junta. Las muestras colectadas deberán ser analizadas por un laboratorio reconocido por el *National Voluntery Laboratory Accreditation Program* (NVLAP, en inglés) y que cumpla satisfactoriamente con los criterios del *National Institute of Standards and Technology* (NIST, en inglés). La acreditación del laboratorio deberá incluir el análisis de las muestras mediante Microscopía de Luz Polarizada (PLM, en inglés).

TRANSPORTACIÓN Y DISPOSICIÓN DEL MCA

42. Las porciones pequeñas del material de desecho así como, todo material que se usó durante la limpieza o utilizados en el área de trabajo, deberán empacarse en bolsas dobles de 6 milésimas de espesor u otro tipo de envase impermeable apropiado que evite la emisión de fibras o partículas fuera de los envases y dispuestos según aprobado por la Junta.

43. En los envases deberán utilizar etiquetas que establezcan:

PELIGRO
CONTIENE FIBRAS DE ASBESTO
EVITE CREAR POLVO
PELIGRO DE CANCER Y ENFERMEDADES DE LOS PULMONES

44. La transportación del material contaminado estará a cargo de la compañía identificada en este formulario de solicitud de permiso general. De surgir la necesidad de utilizar otro transportista, deberá antes modificar este permiso e incluir el número de Permiso para Servicio de Recolección y Transportación de Desperdicios Sólidos No Peligrosos de la JCA y la fecha de expiración del mismo. Además incluirá la carta original del nuevo transportista.

45. La disposición final del material contaminado se hará en el sistema de relleno sanitario identificado en este formulario de solicitud de permiso general. De surgir la necesidad de utilizar otro sistema de relleno sanitario, deberá antes modificar este permiso e incluir el número de Permiso de Operación para un Sistema de Relleno Sanitario de Desperdicios Sólidos No Peligrosos de la JCA y la fecha de expiración del mismo. Además incluirá la carta original del lugar de disposición.

46. El lugar de disposición se rotulará de la siguiente manera:

PELIGRO
ÁREA DE DISPOSICIÓN DE ASBESTO

INFORMES

47. Deberá someter un informe mensual antes del día 15 del próximo mes que incluya las tareas específicas de los edificios y las estructuras de la planta donde se realizan las actividades de remoción junto con la cantidad de material con contenido de asbesto removidas. Estos informes no sustituyen el informe final de cierre.

48. Deberá someter un informe final de cierre en forma clara y legible dentro de los próximos 60 días de haber finalizado la remoción de material con contenido de asbesto. El mismo deberá incluir:

    a) hojas de cadena de custodia
    b) manifiestos de la disposición del material (claros y legibles)
    c) resumen de las tareas diarias

    De haber alguna diferencia entre la cantidad de asbesto autorizada para la remoción y la dispuesta, deberá someter una carta explicando la razón de la diferencia.

49. El incumplimiento con cualquiera de los requisitos de este permiso constituirá una violación y el dueño, agente o representante autorizado del proyecto estará sujeto a una orden administrativa a una penalidad administrativa o ambas.

50. Este permiso o sus modificaciones no podrán sobrepasar el periodo de 5 años de vigencia. Si el proyecto continua por más de los 5 años solicitados, deberá solicitar un permiso nuevo, o sea presentar una solicitud inicial.

51. Deberá someter a la Junta cualquier información adicional que ésta requiera.

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HOJA DE PAGO

Nombre del Proyecto: Desmantelamiento P.R. Olefins

Nombre del Solicitante: Homeca Recycling Center Co

I. **Cuotas de Radicación**

A. Radicación de Solicitud

1. Solicitud nueva (cargo fijo $750.00)..... $7 5 0.0 0

2. Modificación ($300.00)..... $ _ _ _ _.__
Las modificaciones incluyen cambios en transportista, lugar de disposición, laboratorio, cambios al plan de trabajo, aumento en cantidad de material removido y aumento en la duración del proyecto. Si existe aumento en la duración del proyecto deberá pagar en adición la cantidad correspondiente a la nueva duración del proyecto.

B. Cargos Fijos por Duración del proyecto de remoción de mca
La duración del proyecto empezará a contar a partir de la fecha de radicación de este permiso.

1. De 1 a 30 días..... $ _ _ _ _.__
$350.00

2. De 31 a 90 días..... $ _ _ _ _.__
$900.00

3. De 91 a 365 días ..... $ 1 5 0 0.0 0
$1,500.00

4. De 366 a 730 días (2 años)..... $ _ _ _ _.__
$3,000.00

5. De 731 a 1095 días (3 años)..... $ _ _ _ _.__
$4,500.00

6. De 1096 a 1825 días (5 años)..... $ _ _ _ _.__
$6,000.00

TOTAL..... $2 2 5 0.0 0

C. Viviendas Unifamiliares ..... $ _ _ _ _.__
Las viviendas unifamiliares sólo pagará un cargo por radicación de $100.00 y estarán exentas del cargo fijo por duración del proyecto y se definen como una unidad de vivienda o residencia privada donde reside una familia y el dueño de la residencia es una persona natural y no una agencia, empresa, organización o corporación pública o privada. Este permiso será emitido por un año.

II. **Cuotas de Transferencia** (cargo fijo $100.00)..... $ _ _ _ _.__

Nota: Los cargos por radicación y cargos fijos requeridos en esta solicitud no serán devueltos.

PARA USO OFICIAL

SECRETARÍA

Cotejado por: _____ Fecha: 28/09/2010 Cantidad a pagar: $ 2,250.00
Radicador (Día / Mes / Año)

DIVISIÓN DE FINANZAS

Efectivo ☐ Giro ☐ Cheque Corporativo ☐ #_____ Recibo # ☐☐☐☐☐☐☐☐☐☐

_____ ___/___/___
Firma Recaudador Oficial (Día / Mes / Año)

PG-ASB-____-_____-_____-____
PARA USO OFICIAL

CONDICIONES PERMISO GENERAL PARA EL MANEJO DE MATERIALES CON CONTENIDO DE ASBESTO

1. Mantendrá copia de este permiso en el proyecto en todo momento.

2. Se autoriza específicamente la actividad descrita en el formulario de la solicitud de permiso general para el manejo de materiales con contenido de asbesto y la misma se llevará a cabo de acuerdo con el plan de trabajo presentado junto con el formulario de esta solicitud.

3. La actividad de manejo de materiales con contenido de asbesto no podrá exceder el período solicitado en el formulario de solicitud de permiso general. El dueño, agente o representante autorizado deberá presentar una modificación a este permiso si la actividad para el manejo de materiales con contenido de asbesto debe extenderse por más del tiempo solicitado. Si el permiso expira antes de someterse la modificación, deberá someter una nueva solicitud y un formulario nuevo de permiso general.

4. El dueño, agente o representante autorizado deberá notificar a la Junta de Calidad Ambiental (JCA) la fecha real de comienzo el mismo día o antes de comenzar las actividades de remoción de material con contenido de asbesto.

5. El dueño, agente o representante autorizado deberá cumplir con los requisitos aplicables de notificación contenidos en la Sección 61.145(b) del 40 CRF. Esta notificación, de ser aplicable, deberá enviarse en original y dos copias a *US EPA Caribbean Environmental Protection Division*, Centro Europa Building, Suite 417, 1492 Ponce de León Avenue, Stop 22, San Juan, PR 00907-4127. Si de acuerdo con la Sección 61.145(b) del 40 CRF, el dueño, agente o representante autorizado tuviese que someter a la EPA otra notificación adicional a la radicada con esta solicitud, deberá someter a la JCA una copia de dicha notificación adicional sometida a la EPA en la misma fecha en que notifique a la EPA. Se le apercibe que el incumplimiento con este requisito, de ser aplicable, podrá conllevar la revocación del permiso y la imposición de las multas correspondientes.

6. El dueño, agente o representante autorizado deberá notificar por escrito la fecha real de terminación del proyecto de remoción no más tarde de 5 días de terminado el proyecto. Se aceptarán notificaciones adelantadas por fax. Si la notificación es adelantada por fax, deberá enviar la notificación original por correo o radicarla en la Oficina de Radicaciones de Secretaría de la Junta de Calidad Ambiental.

7. Deberá cumplir con todas las especificaciones establecidas en el plan de trabajo entregado con este formulario de solicitud de permiso general. Para efectuar cualquier cambio de las especificaciones del plan de trabajo deberá someter una modificación a este permiso.

8. Las actividades de remoción, transporte y disposición del material con contenido de asbesto se realizarán de acuerdo con los requisitos y en cumplimiento con la Regla 422 del Reglamento para el Control de la Contaminación Atmosférica (RCCA) y de acuerdo con los requisitos aplicables del:

   a. Título 40 del CRF, Parte 61, Subparte M, Estándares Nacionales de Emisiones para asbesto.

   b. Título 40 del CRF, Parte 763, Subparte E, Materiales con Contenido de Asbesto en las Escuelas si la actividad de remoción, transporte y disposición del material que contiene asbesto es realizada en una escuela pública o privada.

9. De acuerdo con la Regla 420 del Reglamento para el Control de la Contaminación Atmosférica (RCCA) no causará ni permitirá la emisión a la atmósfera de materia que produzca un olor objetable o desagradable que se pueda percibir en predios que no sean aquellos que han sido designados para propósitos de la remoción de asbesto.

PERSONAL AUTORIZADO

10. Todo el personal (trabajador, supervisor, inspector, planificador, diseñador de proyecto y especialista en muestreo) que trabaje en la remoción de asbesto deberá estar autorizado y registrado en la Junta. Las personas autorizadas para trabajar en la remoción de asbesto son las incluidas junto con este formulario de solicitud de permiso general y cuyas tarjetas estén vigentes durante el período en que se lleve a cabo la actividad aplicable (p. ej. inspección, monitoreo, remoción, planificación, supervisión).

11. El dueño, agente o representante autorizado será responsable de que todo el personal tenga consigo y en un lugar visible su tarjeta de registro de la JCA mientras trabaje en la actividad de manejo de materiales con contenido de asbesto.

12. Deberá mantener un registro diario del nombre, número de registro de la tarjeta de la JCA y la firma de todo el personal que trabaje en el proyecto. Este deberá estar disponible en el proyecto para la inspección y la revisión de personal técnico de la JCA.

13. Deberá notificar por escrito, en un período no mayor de 5 días, el nombre de las personas que no fueron incluidas en el plan de trabajo y que comenzarán a trabajar en la remoción de asbesto luego de sometido este formulario de solicitud de permiso general. La notificación deberá incluir copia de las tarjetas de registro vigentes de la JCA para realizar estas labores.

14. No se permitirá personal en trabajos de remoción de asbesto cuya tarjeta de registro de la Junta esté vencida. Deberá recertificar a todo el personal que trabaje en la remoción de asbesto antes de la fecha de expiración de sus tarjetas y someterá evidencia de la recertificación (copia de las nuevas tarjetas) a la JCA.

DURANTE LA OPERACIÓN

15. Deberá aislar el área de trabajo de manera que evite el acceso de personas ajenas a dichas áreas.

16. Deberá instalar por lo menos 2 rótulos en lugares visibles, accesibles y legibles a una distancia no mayor de 50 pies y no menor de 20 pies del área de trabajo. El área de trabajo tiene que estar rotulada de la siguiente manera:

    PELIGRO NO ENTRE, removiéndose material que contiene asbesto.
    Inhalar fibras de asbesto puede causar daños serios a la salud.
    Evite levantar polvo.

17. Durante las tareas de remoción de material con contenido de asbesto, deberá estar presente un supervisor certificado que evidencie estar en el registro de personas certificadas de la JCA en trabajos de asbesto.

18. Antes y durante la operación deberá humedecer la superficie del material para que éste no gane acceso al aire o al terreno.

19. El material debe ser embolsado, envuelto o mantenerse mojado hasta que sea transferido a un recipiente cerrado antes del final de la jornada de trabajo.

20. Deberá utilizar ventilación local equipada con Filtros para Partículas Alta Eficiencia (HEPA, en inglés) cuando las labores de remoción lo requieran.

21. Durante el proceso de remoción, las partículas pequeñas del material deberán ser colectadas mediante el uso de aspiradores equipadas con filtros HEPA.

HOMECA Inc.
RECYCLING
Environmental and Demolition Services

Plan de Trabajo para Remoción y Disposición de Materiales con Contenido de Asbestos (ACM)

Proyecto:

Desmantelamiento Antiguas Facilidades Olefins
Peñuelas, Puerto Rico

Preparado por:

Homeca Recycling Center Co, Inc
PO BOX 231
Mercedita, PR 00715

Tabla de Contenido

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B. Descripción de los trabajos

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- Área de descontaminación
- Área limpia

E. Requerimientos de aislamientos del área de trabajo

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A. INFORMACIÓN SOBRE EL PROYECTO

Proyecto	Desmantelamiento de la Antigua Planta Olefins
Ubicación del Proyecto:	Tallaboa Industrial Park Carr. 385 Km 5.4 Bo. Tallaboa Poniente, Peñuelas PR 00624
Descripción del Proyecto	Remoción de materiales con contenido de asbestos
Fecha de Comienzo & Terminación	Comienzo: 28 de Septiembre de 2010 Terminación: 28 de Septiembre de 2011
Duración del trabajo	12 meses (1 año)
Dueño del Proyecto	Pro-Caribe Contacto: Lic. Ramon González Simounet Tel. (787) 836-2026
Contratista General	Homeca Recycling Center, Inc.
Información Contratista General	**Dirección Postal:** PO Box 231 Mercedita, PR 00715 **Dirección Física:** Calle Salmón # 1 Playa de Ponce Ponce, PR 00731 Tel. 787- 689-6150 Fax: 1-800-491-1218
Facilidad de Disposición de Desperdicios	Relleno Sanitario de Ponce / Republic Waste Services **Dirección Física** Bo. La Cotorra Ave. Baramaya Final Ponce, PR 0031 **Dirección Postal** PO Box 7104 Ponce, PR 00732-7104 Contacto: Sra. Wanda Valenzuela Tel. (787) 841-7775 Permiso: IDF-58-0008

Transportista de Desperdicios # 1	RE Environmental Group, Inc. **Dirección Postal** PO BOX 479 Arroyo, PR 00714 **Dirección Física** Sunset Park # 10 Árroyo, PR 00714 Tel. (787) 864-8855 Fax. (787) 864-8844 Permiso JCA: SR-58-0547
Persona que preparó el Plan de Trabajo	Adolfo Valdes Agrait **Dirección Postal y Física:** PO BOX 219 Mercedita, PR 00715-0219 Urb. Los Almendros Calle Lady Di Ponce, PR 00715 Certificación: ASB-1109-0553-PD Vence: 10/25/2010 Tel. (787) 504-0279 Fax. (787) 842-8542
Persona Responsable del Proyecto	Carlos O. Sánchez Delgado **Dirección Física:** Bo. Certenejas II Carr. 172 Km 7.5 Interior Cidra, PR 00739 **Dirección Postal:** PO BOX 231 Mercedita, PR 00715 Tel. (787) 689-6150 / (787) 380-2912
	Colección de Muestras: 1. Envirorecycling, Inc. 1508 Paseo Fagot Suite # 3 Ponce, PR 00716-3202

Compañía a Cargo Monitoreo de Aire	2. The Atmospheric Assessment Group PO Box 219 Mercedita, PR 00715-0219 Tel. (787) 842-8592 / (787) 504-0279 **Lectura de Muestra:** 1. The Atmospheric Assessment Group PO Box 219 Mercedita, PR 00715-0219 Tel. (787) 842-8592 / (787) 504-0279 2. Altol Environmental Por David León PO Box 359 Mercedita, PR 00715 Tel. 787-835-4242 Fax. 787-835-2004 3. AES International, Inc. 611 Monserrate St. 2nd Floor Santurce, PR Tel. (787) 722-0220
Facilidad de Laboratorio	En caso de ser necesario se estará utilizando el laboratorio EMSL Analytical
Cantidad de ACM a Manejarse	550 yardas cúbicas aproximadamente

B. DESCRIPCIÓN DE LOS TRABAJOS

Objetivo y Alcance del Trabajo

El objetivo de este plan de trabajo es describir el procedimiento de remoción y disposición de material con contenido de Asbesto. El proyecto consiste de la remoción de materiales con contenido de asbestos (ACM) en la Antigua Planta Olefins localizado en el pueblo de Penuelas PR. El trabajo incluye la remoción de 11,000 pies lineales de"TSI" insulación termal y unos 13,000 pies cuadrados de "Transite" planchas de asbesto cemento. La insulación termal y las planchas de asbesto cemento se encuentra ubicado alrededor de la planta. La insulación se encuentra en diferentes diámetros y es utilizada como un aislante en las tuberías de la planta. El "transite" se utilizó para techar las áreas donde se encontraban los paneles de control de la planta.

Métodos

Se removerá utilizando herramientas manuales para los diferentes materiales, humedeciendo con agua enmendada. Una vez el material haya sido removido, se utilizarán los sistemas de recogido y descontaminación de los diferentes materiales según la regulación para este tipo de trabajo. Se removerán materiales no desmenuzables y desmenuzables de las diferentes áreas. El material a removerse es aproximadamente de 550 yardas cúbicas de material.

Los siguientes pasos son aplicables al proyecto:

Se manejará el asbesto en estricto acuerdo con las regulaciones estatales y federales y cualquier agencia gubernamental que pueda tener jurisdicción.

El personal contratado en la remoción o limpieza utilizará el equipo de seguridad necesario en todo momento que esté en el área restringida o área de trabajo.

Se establecerán áreas restringidas de trabajo utilizando cinta barricada de advertencia para evitar que personas ajenas tenga acceso al mismo. Se utilizará también carteles de advertencia según descrito en la reglamentación.

El comer, beber y/o fumar dentro del área de trabajo estará prohibido para todo el personal.

Se someterá un plan de trabajo para la mitigación de asbesto a la Junta de Calidad Ambiental para así obtener su aprobación.

Todo trabajo será en estricto cumplimiento a este plan de trabajo.

Solo serán asignados al proyecto personal debidamente entrenado y certificado ante la JCA para estos trabajos de asbestos. Se mantendrá un supervisor o persona competente en el área de trabajo en todo momento.

Se contratarán los servicios de un laboratorio certificado para las muestras de (aire) que se llevaran a cabo antes, durante y al finalizar para controlar el nivel de exposición de los empleados y limpieza final.

C. EQUIPO DE PROTECCIÓN REQUERIDA

El personal que realiza los trabajos de remoción de asbesto usará equipos de protección de las vías respiratorias, protección para los ojos y ropa para protección epidémica apropiadas para trabajar en condiciones adecuadas.

Los equipos de protección respiratoria a utilizarse estarán de acuerdo con los requisitos descritos en el Código Federal 29 CFR 1926.1101. Luego del monitoreo inicial de aire se procederá a asignar protección respiratoria de acuerdo a la concentración de partículas de asbesto en el aire utilizado la tabla adjunta. Esto será para el personal que este manejando las bolsas con el desperdicio conteniendo material con asbesto. Los respiradores tanto de presión negativa o positiva que se utilizan en el proyecto estarán provistos con cartuchos de combinación con filtros para vapores orgánicos y de alta eficiencia (HEPA) para partículas.

A cada trabajador se le asignará un respirador para el uso exclusivo de este. No se permitirá el intercambio de respiradores entre los trabajadores. Quedará terminantemente prohibido el uso de respiradores desechables o de mascaras contra polvo ("dust. masks"). A cada trabajador se le requerirá conducir con un cotejo de ajuste de su mascara ("fit check") antes de entrar al área de trabajo. Esto se hará cuantas veces sea necesario. El equipo de protección respiratoria se limpiará, se descontaminará y se probará diariamente. Solamente se utilizarán respiradores aprobados por (NIOSH) y (MSHA). Además, de la protección respiratoria, los trabajadores usarán gafas de seguridad, guantes de goma y ropa desechable que cubra todo el cuerpo. La ropa desechable, incluyendo los guantes y filtros de los respiradores, serán descartada como material que contiene asbesto (ACM) para mayor seguridad. El equipo de seguridad restante será descontaminado en las duchas que estarán en el área de descontaminación.

A continuación se presenta la tabla donde se explica cual será la protección respiratoria asignada a los trabajadores de acuerdo a la concentración de partículas de asbesto en el aire.

Cada vez que se utilice un respirador se deberá establecer un programa para el uso de los mismos, según lo indicado en el 29 CFR 1910.134

El visto bueno para la recuperación final del área se dará cuando la muestra final del aire tomada ("clerance"), después de concluir los trabajos, resulte en una concentración de fibras de asbesto de 0.005f/cc (fibras por centímetro cúbico) o menos, según lo recomendado por las Regulaciones.

NIVELES DE PROTECCIÓN RESPIRATORIA

NIVEL	*CONCENTRACIÓN DE ASBESTO EN EL AIRE*	*RESPIRADOR REQUERIDO*
1	No más de 1 f/cc (o sea 10 veces el PEL)	Media mascarilla tipo purificador aire con filtros de alta eficiencia
2	No más de 5 f/cc (o sea 50 veces el PEL)	Respirador tipo purificador de aire que cubra todo el rostro con filtros de alta eficiencia.
3	No más de 10 f/cc (o sea 100 veces el PEL)	1. Cualquier respirador purificador de aire motorizado equipo de filtros de alta eficiencia. 2. Cualquier respirador del tipo presión positiva (suministrado de aire) operado en flujo continuo.
4	No más de 100 f/cc (o sea 1000 veces el PEL)	Respirador de suministro de aire y que cubra todo el rostro operado en demanda de presión.
5	Más de 100 f/cc (más de 1000 veces el PEL) o cuanto se desconoce la concentración.	Respirador de suministro de aire que cubra todo el rostro operado en demanda de presión positiva y aire auto -contenido.

Cada vez que se utilice un respirador se deberá establecer un programa para el uso de los mismos, según lo indicado en el 29 CFR 1910.134

[1]Referencia de OSHA 29 CFR 1926.1101
NOTA: PEL significa nivel de exposición permitido, de las siglas en inglés "Permissible Exposure Limit" establecido por OSHA. El PEL de asbestos es 0.1 f/cc.

D. PROCEDIMIENTO PARA LA REMOCIÓN DE ASBESTO

Se deberá notificar por escrito a la Agencia Federal de Protección Ambiental (EPA) diez (10) días antes de comenzar los trabajos de remoción. Para iniciar los trabajos de preparación del área, se tomaran muestras de "Back-ground" para determinar el nivel de exposición del área.

El paso siguiente será instalar barreras de polietileno reforzado creando un perímetro de cuatro altas paredes dejando el techo abierto para así mantener todas las tuberías dentro de este perímetro para su remoción. En adición, prevenir que el aire pueda ganar acceso a las áreas a fin de que haya control de las áreas de trabajo dentro de perímetro cerrado en todo momento y manteniendo cerrado alrededor de cada rack de tuberías donde se estará removiendo toda la insulación controlando el aire y las fibras generadas en todo momento. Las planchas de asbesto cemento se removerán "open air"

Antes de comenzar las actividades de remoción se establecerán tres (3) áreas de control de acceso al encerramiento:

- Área de Trabajo

Todo trabajo de remoción se llevará a cabo en esta área. El personal que entre a esta área usará todo el equipo de protección y deberán estar certificados para el manejo del MCA. Toda entrada y salida de esta área se hará a través del área de descontaminación.

- Área de descontaminación

El personal, equipo y herramientas que salga del área de trabajo pasaran por el área de descontaminación. Para este proceso se instalaran duchas equipadas con un sistema para la recolección y filtración de las aguas servidas (8 "micro filtres) generadas en el proceso de remoción y descontaminación.

- Área Limpia

Esta área sirve de acceso al área de descontaminación. Es en el área limpia donde los trabajadores se cambiaran sus ropas domesticas y se pondrán la ropa y equipo de protección (incluyen los respiradores). Esta área tendrá un lugar designado a equipo para almacenar los artículos personales incluyendo la ropa doméstica de los trabajadores. Además, es también en este lugar donde se

mantendrán los equipos, materiales, ropa desechable de protección y otros artículos limpios y sin usar para ser provistos inmediatamente de ser necesario.

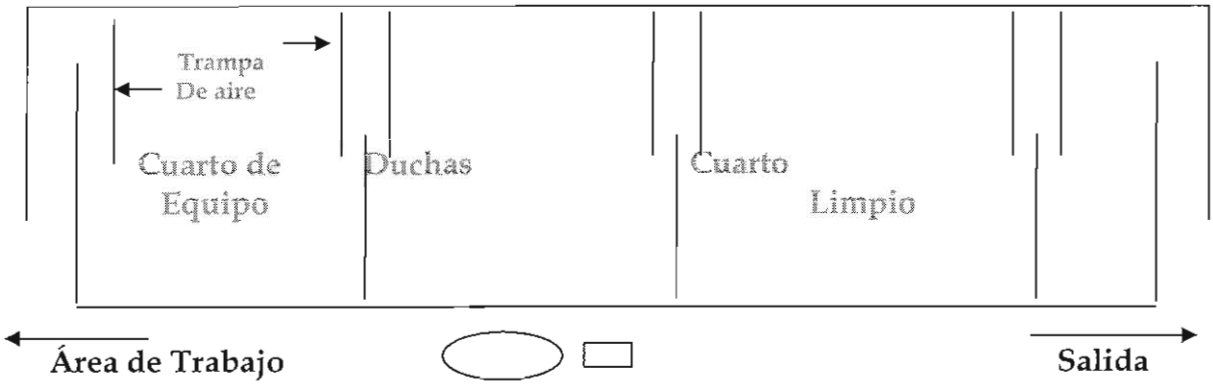
Antes de comenzar con los trabajos de remoción, las áreas circundantes al proyecto se rotularán advirtiendo a cualquier persona que por alguna razón ganará acceso a las áreas sobre los trabajos de remoción de asbesto que allí se estarán realizando. Los rótulos se localizarán en lugares conspicuos a través de los cuales se pueda ganar acceso al área del proyecto. Los rótulos a utilizarse serán de acuerdo a los especificados en el Código Federal 29 CFR 1926.1101 (k) (6) (ii).

PELIGRO
ASBESTO
RIESGO DE CANCER Y ENFERMEDAD PULMONAR

Personal Autorizado Solamente

SE REQUIERE RESPIRADORES Y EQUIPO DE PROTECCIÓN
PERSONAL EN ESTA AREA.

Modelo Típico de Sistema de Descontaminación



Sistema de Filtración

E. REQUERIMIENTO DE AISLAMIENTO DEL AREA DE TRABAJO

El área de trabajo se cubrirá con polietileno de 6 mil o mayor. Esto incluye barreras críticas en todas y cada una de las salidas de aire, utilizando pegamento y cinta adhesiva en todos los bordes. Se proveerá un solo acceso para entrar y salir del área de trabajo y de descontaminación.

Luego de encerrada el perímetro del área de trabajo, se instalara un sistema de ventilación que ayudara a mantener las fibras controladas en la zona de trabajo y áreas fueras de la misma. El equipo de presión negativa a utilizarse estará provisto con un filtro (HEPA). Este equipo tendrá una capacidad de mover al menos 2000 pies cúbicos de aire por minuto con tres etapas de filtro. El filtro principal (HEPA) tendrá un 99.97% de eficiencia en partículas de hasta 0.3 micrones. Este equipo sacará el aire filtrado al exterior del perímetro cerrado.

El sistema de ventilación funcionará durante el proceso de remoción, mientras dure el proyecto. Esto incluye el periodo de limpieza o descontaminación final hasta que las muestras de aire no excedan los limites permitidos de fibras de asbesto de 0.005f/cc.

F. REMOCIÓN DE ASBESTOS

La remoción de insulación y planchas de asbestos cemento se removerá de acuerdo a las regulaciones y exigencias de las agencias reguladoras, (EPA, OSHA, JCA). El material se removerá manualmente y después de ser removido será empacado en doble bolsa 6 milésimas, especialmente rotuladas para asbesto y será removido del área diariamente hacia el contenedor de almacenamiento. El material se removerá húmedo. Se asegurarán las paredes de polietileno de tal manera que no se desprenderán durante la remoción. El área en todo momento se mantendrá limpia y recogida del material ya removido, utilizando equipos de succión equipados con filtros HEPA. También se colocarán diques en las áreas para asegurar que el agua no se filtre hacia el exterior. El agua colectada será filtrada adecuadamente y se dispondrá a través del sistema de alcantarillado sanitario.

G. DESCONTAMINACIÓN DEL ÁREA DE TRABAJO

Luego de finalizado el trabajo de remoción del área de trabajo así como el área de descontaminación será limpiadas y descontaminadas. Los paños y demás utensilios desechables utilizados en la descontaminación y limpieza de todas las áreas serán depositados en bolsas rotuladas para empacar los desperdicios de (ACM). Sé removerán del área de trabajo todos los equipos y herramientas utilizadas en la operación. Dichos equipos y herramientas pasaran por el proceso de descontaminación antes de abandonar el área de trabajo. Luego de despejar y limpiar toda el área, esta se inspeccionará visualmente. Se seguirán los criterios de inspección que se muestran en la lista de cotejo incluido. Después de verificar la limpieza del área, se procederá a realizar un muestreo de aire para cumplir con los niveles de limpieza requeridos por las regulaciones de 0.005 f/cc. En el caso de que este parámetro no se cumpla, se procederá nuevamente a limpiar el área y se mostrara otra vez. El sistema de presión negativa se deberá mantener en operación hasta tanto se cumpla con el nivel de limpieza.

H. REQUERIMIENTO DE TRANSPORTACIÓN DEL ASBESTO

Se cumplirá con el reglamento del Departamento de Transportación Federal (DOT) y con el de Junta de Calidad Ambiental (JCA) para la transportación de los desperdicios generados en el proyecto hasta las facilidades de disposición final. El material de asbesto removido y generado se dispondrá en un vertedero autorizado por la Agencia Federal de Protección Ambiental (EPA por sus siglas en ingles) y la Junta de Calidad Ambiental (JCA) para estos fines.

Una vez el camión que contiene el desperdicio de asbesto arribe al vertedero, el chofer debe aproximarse a la localidad de desperdicio lo más cercano posible para descargar el material. Las bolsas empacadas se sacaran del camión y serán inspeccionadas a medida que se vayan descargando. En la eventualidad de que una bolsa empacada se haya roto o maltratado, el material será reempacado apropiadamente.

Las bolsas empacadas serán colocadas en el piso del lugar de disposición, no empujadas o tiradas del camión, ya que el peso del material mojado puede romper las mismas. El personal de descargue habrá de usar equipo protector apropiado que incluye ropa protectora desechable de cabeza, cuerpo y pies. También protección respiratoria mínima debe incluir el uso de respiradores de medio rostro equipados con filtros de alta eficiencia para partículas (HEPA).
Después de completado la remoción de todo el desperdicio, el área de carga del camión sea descontaminada usando aspiradoras (HEPA) y/o métodos húmedos de acuerdo con las regulaciones de (OSHA) y (EPA). Los paños de polietileno serán removidos y descartados junto con el material de limpieza contaminado y la ropa protectora en otras bolsas en el lugar de disposición.

Las bolsas o paquetes serán colocados, intactas en un área excavada y cubierta con un mínimo de seis (6) pulgadas de tierra limpia.

GOBIERNO DE PUERTO RICO
OFICINA DEL GOBERNADOR
JUNTA DE CALIDAD AMBIENTAL

Área de Calidad de Aire

PUERTO RICO VERDE

SOLICITUD DE PERMISO GENERAL
MANEJO DE MATERIALES CON CONTENIDO DE ASBESTO

HOJA DE COTEJO PG-ASB 57-0911-0112 RC
PARA USO OFICIAL

☑ SOLICITUD INICIAL

	Documentos Solicitados		Sometido Solicitante	Recibido Uso oficial
1.	Un original y una copia del Formulario de la Solicitud de Permiso General Manejo de Materiales con Contenido de Asbesto completo en todas sus partes		☑	☑
2.	Plan de Trabajo de acuerdo con las Guías para Remociones de Asbesto del Reglamento para el Control de la Contaminación Atmosférica		☑	☑
3.	Plano o croquis de las estructuras o edificios donde se ilustra distribuida el área de trabajo. Incluye cuarto limpio, baño, cuarto sucio, sistema de aire negativo, salidas de aire limpio		☑	☑
4.	Plano de localización claro y legible		☑	☑
5.	Carta original de transportista(s)		☑	☑
6.	Carta original del lugar de disposición		☑	☑
7.	Copia de la tarjeta de registro vigente del Diseñador del Proyecto		☑	☑
8.	Copia de las tarjetas de registro vigentes de Trabajadores		☑	☑
9.	Copia de las tarjetas de registro vigentes de Supervisores		☑	☑
10.	Copia de las tarjetas de registro de los Especialistas en Muestreo		☑	☑
11.	Copia *AIHA Asbestos Analyst Registry (AAT Performance Results)* para los Especialistas en Muestreo presentados en la solicitud.		☑	☑
12.	Copia de la notificación a EPA ponchada con por lo menos 10 días laborables antes de la radicación si marcó *Sí* en el inciso II (H) de esta solicitud		☑	☑
13.	Pago correcto según requerido por el formulario de permiso general		☑	☑

☐ MODIFICACIONES

	Documentos Solicitados		Sometido Solicitante	Recibido Uso oficial
1.	Un original y una copia del Formulario de la Solicitud de Permiso General Manejo de Materiales con Contenido de Asbesto completo en todas sus partes		☐	☐
2.	Copia del permiso que desea modificar		☐	☐
3.	Carta explicativa de la modificación solicitada (por ej. si es un aumento en yardas cúbicas, explicación de la diferencia)		☐	☐
4.	Para cambio de laboratorio, copia de las tarjetas de registro de los Especialistas en Muestreo		☐	☐
5.	Para cambio de transportista, carta original del nuevo transportista(s)		☐	☐
6.	Para cambio de lugar de disposición, carta original del lugar de disposición		☐	☐
7.	Pago correcto según requerido por el formulario de permiso general		☐	☐

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☐ TRANSFERENCIAS

	Documentos Solicitados		Sometido Solicitante	Recibido Uso oficial
1.	Un original y una copia del Formulario de la Solicitud de Permiso General Manejo de Materiales con Contenido de Asbesto completo en todas sus partes		☐	☐
2.	Copia del permiso que desea transferir		☐	☐
3.	Acuerdo firmado por las partes que incluya la fecha de transferencia		☐	☐
4.	Pago correcto según requerido por el formulario de permiso general		☐	☐

PARA USO OFICIAL

Recibido por: _____ Fecha: 30 / 09 / 2011
Representante autorizado JCA (Día / Mes / Año)

Dirección Física: Edificio de Agencias Ambientales Cruz A. Matos, Urbanización San José Industrial Park
1375 Avenida Ponce de León, San Juan, PR 00926-2604 • Teléfono 787-767-8181 • Fax 787-756-5906
Dirección Postal: Apartado 11488, San Juan, PR 00910

GOBIERNO DE PUERTO RICO
OFICINA DEL GOBERNADOR
JUNTA DE CALIDAD AMBIENTAL

Área de Calidad de Aire

PUERTO RICO VERDE

SOLICITUD DE PERMISO GENERAL
MANEJO DE MATERIALES CON CONTENIDO DE ASBESTO

☒ SOLICITUD NUEVA
☐ MODIFICACIÓN
☐ TRANSFERENCIA

PG-ASB-37-0911-0112 RC
PARA USO OFICIAL

I. IDENTIFICACIÓN DE PERSONAS Y ENTIDADES RESPONSABLES

Entidad	Nombre y Seg. Soc. Patronal	Dirección Física	Dirección Postal
Dueño	Tallaboa Industrial Park SS 660 - 72 - 0694 roberto@procaribe.com Correo Electrónico	Carr 385 Km. 5.4 Bo. Tallaboa Poniente Sector Pueblito Peñuelas, PR 00624 Teléfono: 787-836-2000	Carr 385 Km 5.4 Procaribe Firm Delivery Bo. Tallaboa Poniente Sector Pueblito Peñuelas, PR 00624 Fax: 7870836-2026
Agente o Rep. Autorizado	Homeca Recycling Center SS 660 - 59 - 6814 luz@homecainc.com Correo Electrónico	Calle Salmon # 1 Puerto de Ponce Bo. La Playa Ponce, PR Teléfono: 787-689-6150	PO Box 231 Mercedita, PR 00715 Fax: 800-491-1218

II. INFORMACION DEL PROYECTO

A. Nombre del Proyecto: Desmantelamiento Antiua Planta Olefins

B. Localización Física: carretera 385 Km. 5.4 carretera 127 km. 19.1
(Calle o Carretera) (Núm. o Km)
Tallaboa Poniente Sector El Pueblito Peñuelas, PR 00624
(Barrio) (Pueblo)

C. Localización del Proyecto en Coordenadas Lambert (Stateplane NAD83): X: 42.8218 . 444 Y: 37.1780 . 722

D. Fecha estimada: Inicio de obras: 27 /09 /10 (Día / Mes / Año) Terminación de las obras: 26 /09 /2012 (Día / Mes / Año)

E. Cantidad de mca[1] a removerse: 550 yardas[3] 13,000 pies[2] 11,000 pies lineales

F. Cantidad de mca a generarse: 550 yardas[3]

G. Descripción (identificación edificio, piso, etc.) de la estructura(s) donde se removerá el mca:
Los trabajos se reallizaran en la Antigua Planta Petroquimica

H. ¿El mca a removerse cumple con la definición de mca regulado según el 40 CRF[2] §61.141 y le aplica el 40 CRF §61.145(b)?
Si ☒ No ☐
Se le apercibe que la determinación incorrecta de esta clasificación del material y el no emitir la notificación aplicable, podrá conllevar la revocación del permiso y la imposición de las multas correspondientes.

I. Certificación del Diseñador del Plan de Trabajo: Certifico que el Plan de Trabajo que se incluye con esta solicitud de permiso fue preparado de acuerdo con las Guías para Plan de Trabajo para Remociones de Asbesto del Reglamento para el Control de la Contaminación Atmosférica (RCCA), las buenas prácticas y siguiendo las reglamentaciones federales y estatales aplicables del 40 CRF Parte 763 y Parte 61 Subparte M, del 29 CRF §§1910.1001, 1910.134, 1926.1101, de la Regla 422 del Reglamento para el Control de la Contaminación Atmosférica y la Regla 1005 de la Regla de Manejo de Desperdicios No-Peligrosos.

Firma del Diseñador de Proyecto (en original)

[1] mca: material con contenido de asbesto
[2] Código de Regulaciones Federales

SOLICITUD DE PERMISO GENERAL
MANEJO DE MATERIALES CON CONTENIDO DE ASBESTO
PÁGINA 2 DE 7

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PARA USO OFICIAL

III. CERTIFICACIÓN DE INFORMACIÓN POR EL DUEÑO

Yo, Ramon S. Gonzalez (Nombre, Inicial, Apellidos) mayor de edad, Casado (Estado Civil), vecino de San Juan (Municipio) y que ocupo la posición de Presidente en Tallaboa Industrial Park (Organización, Agencia, Compañía u otro).

Certifico que:

1. Mi nombre y demás circunstancias personales son las antes indicadas.
2. Toda la información vertida en esta solicitud y en los documentos que se acompañan es cierta, correcta y completa a mi mejor saber y entender.
3. Afirmo y reconozco las consecuencias de incluir y someter información falsa o incompleta en dichos documentos.
4. Autorizo a Eafael Echevarria (Nombre, Inicial, Apellidos), que ocupa la posición de Gestor en Homeca Recycling Center Co, Inc (Organización, Agencia, Compañía u otro) a radicar y llevar a cabo las gestiones necesarias, relacionadas con este permiso, en mi nombre y representación ante la Junta.

Y para que así conste, firmo la presente certificación en San Juan, (Municipio) de Puerto Rico, hoy 30/9/11 (Día / Mes / Año).

Firma del dueño (en original)

IV. IDENTIFICACIÓN DE SERVICIOS Y ENTIDADES RESPONSABLES: Debe incluir como mínimo un laboratorio, un transportador y un lugar de disposición.

Entidad	Nombre, Núm. Registro o permiso	Dirección Física	Dirección Postal
Diseñador de Proyecto	Adolfo Valdes Agrait ASB- 1110 - 0560 PD Vence: 7 /Oct /2011 taagroup2@gmail.com Correo Electrónico	Urb. Los Almendros Calle Lady Di Teléfono: 787-504-0279	PO BOX 219 Meredita, PR 00715 Fax: 787-842-8542
Laboratorio	Altol Chemical SS 660 - 54 - 3434 carlos.ocasio@altolenterprises.com Correo Electrónico	Urb. Industrial Sabanetal Ed M-1380 Mercedita, PR 00715 Teléfono: 7877848-6050	PO BOX 359 Mercedita, PR 00715 Fax: 787-848-6299
	AES International, INC SS 660 - 49 - 5330 Correo Electrónico	611 Monserrate ST 2nd Floor Santurce, PR Teléfono: 787-722-0220	611 Monserrate ST 2nd Floor Santurce, PR Fax: 787-754-5788
Transportador	RE Environmental Group Núm. SR - 58 - 0574 Vence: 06 /mayo /2014 reenvironmentalgroup@gmail.com Correo Electrónico	Sunset Park # 10 Arroyo, PR 00714 Teléfono: 787-864-8855	PO BOX 479 Arroyo, PR 00714 Fax: 787-864-8844
	Envirorecycling, Inc Núm. SR - 58 - 0457 Vence: 16 / dic /2013 envirorecycling@yahoo.com Correo Electrónico	1508 Paseo Fagot Suite # 3 Urb. Jardines de Fagot Ponce, PR 00716 Teléfono: 787-284-0044	1508 Paseo Fagot Suite # 3 Urb. Jardines de Fagot Ponce, PR 00716 Fax: 787-848-1780
	Agregados Sanabria Núm. SR - 63 - 0663 Vence: 24 / mar / 2014 loydsan2010@gmail.com Correo Electrónico	Bo. Playa A-79 Salinas, PR 00751 Teléfono: 787-824-3687	PO BOx 479 Salinas, PR 00751 Fax: 787-824-3762
	Envirosolutions Recycling Núm. SR - 04 - 0633 Vence: 23 / julio /2013 envirosolution@ymail.com Correo Electrónico	Ubr. Brisas de Palma Sola Calle 9 # 116 Aguas Buenas, PR 00703 Teléfono: 787-636-2158	HC03 Box 16131 Urb. Brisas de Palma Sola Aguas Buenas PR 00703 Fax: 787-732-4015

* ver documento adjunto para laboratorio adicional.

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PARA USO OFICIAL

Lugar de Disposición	Allied Waste Núm. IDF - 58 - 0008 Vence: 22 /nov /2014 w.valenzuela@republicservice.com Correo Electrónico	Bo. Cotorra Ave. Baramaya Final Ponce, PR 00732 Teléfono: 787-841-775	PO BOX 7104 Ponce, PR 00732 Fax: 787-841-1048
	LM Waste Service Núm. IDF - 58 - 0032 Vence: Adjunto solicitud renovacion slopez@lmwasteservice.com Correo Electrónico	3199 Ave. Santiago los Caballeros Ponce, PR 00717 Teléfono: 787-651-0108	PO BOX 300 Mercedita, PR 00715-0300 Fax: 787-651-0109

V. DETERMINACIÓN ADMINISTRATIVA (PARA USO OFICIAL)

Este permiso podrá ser revocado (cancelado) antes de la fecha de vencimiento si se violan las condiciones del permiso o las disposiciones del Reglamento para el Control de la Contaminación Atmosférica, del Reglamento para el Manejo de Desperdicios Sólidos o del Reglamento para el Trámite de los Permisos Generales. La información y condiciones sometidas en su solicitud forman parte de esta autorización. La Junta se reserva el derecho de intervenir con la fuente en otros aspectos no cubiertos en esta autorización.

JUNTA DE CALIDAD AMBIENTAL APROBADO

Fecha de expedición: 30/09/2011 (Día / Mes / Año)

Fecha de expiración: 30/09/2012 (Día / Mes / Año)

Firma Representante JCA

PG-ASB-52-1911-0112-RC
PARA USO OFICIAL

HOJA DE PAGO

Nombre del Proyecto: Desmantelamiento Antiguas Facilidades PR Olefins

Nombre del Solicitante: Homeca Recycling Center Co, Inc

I. Cuotas de Radicación

A. Radicación de Solicitud

1. Solicitud nueva (cargo fijo $750.00)..... $☐7☐5☐0.☐0☐0

2. Modificación ($300.00)..... $☐☐☐☐.☐☐
Las modificaciones incluyen cambios en transportista, lugar de disposición, laboratorio, cambios al plan de trabajo, aumento en cantidad de material removido y aumento en la duración del proyecto. Si existe aumento en la duración del proyecto deberá pagar en adición la cantidad correspondiente a la nueva duración del proyecto.

B. Cargos Fijos por Duración del proyecto de remoción de mca
La duración del proyecto empezará a contar a partir de la fecha de radicación de este permiso.

1. De 1 a 30 días..... $☐☐☐☐.☐☐
$350.00
2. De 31 a 90 días..... $☐☐☐☐.☐☐
$900.00
3. De 91 a 365 días..... $☐1☐5☐0☐0.☐0☐0
$1,500.00
4. De 366 a 730 días (2 años)..... $☐☐☐☐.☐☐
$3,000.00
5. De 731 a 1095 días (3 años)..... $☐☐☐☐.☐☐
$4,500.00
6. De 1096 a 1825 días (5 años)..... $☐☐☐☐.☐☐
$6,000.00

TOTAL..... $☐2☐2☐5☐0.☐0☐0

C. Viviendas Unifamiliares ..... $☐☐☐☐.☐☐
Las viviendas unifamiliares sólo pagará un cargo por radicación de $100.00 y estarán exentas del cargo fijo por duración del proyecto y se definen como una unidad de vivienda o residencia privada donde reside una familia y el dueño de la residencia es una persona natural y no una agencia, empresa, organización o corporación pública o privada. Este permiso será emitido por un año.

II. Cuotas de Transferencia (cargo fijo $100.00)..... $☐☐☐☐.☐☐

Nota: Los cargos por radicación y cargos fijos requeridos en esta solicitud no serán devueltos.

PARA USO OFICIAL

SECRETARÍA

Cotejado por: _____ Radicador Fecha: 30 / 09 / 2011 (Día / Mes / Año) Cantidad a pagar: $ 2,250.00

DIVISIÓN DE FINANZAS

Efectivo ☐ Giro ☐ Cheque Corporativo ☑ #_____ Recibo # ☐☐☐☐☐☐☐☐☐☐

_____ Firma Recaudador Oficial

___/___/___ (Día / Mes / Año)

PG-ASB-____-_____-_____-_____
PARA USO OFICIAL

CONDICIONES PERMISO GENERAL PARA EL MANEJO DE MATERIALES CON CONTENIDO DE ASBESTO

1. Mantendrá copia de este permiso en el proyecto en todo momento.

2. Se autoriza específicamente la actividad descrita en el formulario de la solicitud de permiso general para el manejo de materiales con contenido de asbesto y la misma se llevará a cabo de acuerdo con el plan de trabajo presentado junto con el formulario de esta solicitud.

3. La actividad de manejo de materiales con contenido de asbesto no podrá exceder el período solicitado en el formulario de solicitud de permiso general. El dueño, agente o representante autorizado deberá presentar una modificación a este permiso si la actividad para el manejo de materiales con contenido de asbesto debe extenderse por más del tiempo solicitado. Si el permiso expira antes de someterse la modificación, deberá someter una nueva solicitud y un formulario nuevo de permiso general.

4. El dueño, agente o representante autorizado deberá notificar a la Junta de Calidad Ambiental (JCA) la fecha real de comienzo el mismo día o antes de comenzar las actividades de remoción de material con contenido de asbesto.

5. El dueño, agente o representante autorizado deberá cumplir con los requisitos aplicables de notificación contenidos en la Sección 61.145(b) del 40 CRF. Esta notificación, de ser aplicable, deberá enviarse en original y dos copias a *US EPA Caribbean Environmental Protection Division*, Centro Europa Building, Suite 417, 1492 Ponce de León Avenue, Stop 22, San Juan, PR 00907-4127. Si de acuerdo con la Sección 61.145(b) del 40 CRF, el dueño, agente o representante autorizado tuviese que someter a la EPA otra notificación adicional a la radicada con esta solicitud, deberá someter a la JCA una copia de dicha notificación adicional sometida a la EPA en la misma fecha en que notifique a la EPA. Se le apercibe que el incumplimiento con este requisito, de ser aplicable, podrá conllevar la revocación del permiso y la imposición de las multas correspondientes.

6. El dueño, agente o representante autorizado deberá notificar por escrito la fecha real de terminación del proyecto de remoción no más tarde de 5 días de terminado el proyecto. Se aceptarán notificaciones adelantadas por fax. Si la notificación es adelantada por fax, deberá enviar la notificación original por correo o radicarla en la Oficina de Radicaciones de Secretaría de la Junta de Calidad Ambiental.

7. Deberá cumplir con todas las especificaciones establecidas en el plan de trabajo entregado con este formulario de solicitud de permiso general. Para efectuar cualquier cambio de las especificaciones del plan de trabajo deberá someter una modificación a este permiso.

8. Las actividades de remoción, transporte y disposición del material con contenido de asbesto se realizarán de acuerdo con los requisitos y en cumplimiento con la Regla 422 del Reglamento para el Control de la Contaminación Atmosférica (RCCA) y de acuerdo con los requisitos aplicables del:

   a. Título 40 del CRF, Parte 61, Subparte M, Estándares Nacionales de Emisiones para asbesto.

   b. Título 40 del CRF, Parte 763, Subparte E, Materiales con Contenido de Asbesto en las Escuelas si la actividad de remoción, transporte y disposición del material que contiene asbesto es realizada en una escuela pública o privada.

9. De acuerdo con la Regla 420 del Reglamento para el Control de la Contaminación Atmosférica (RCCA) no causará ni permitirá la emisión a la atmósfera de materia que produzca un olor objetable o desagradable que se pueda percibir en predios que no sean aquellos que han sido designados para propósitos de la remoción de asbesto.

PERSONAL AUTORIZADO

10. Todo el personal (trabajador, supervisor, inspector, planificador, diseñador de proyecto y especialista en muestreo) que trabaje en la remoción de asbesto deberá estar autorizado y registrado en la Junta. Las personas autorizadas para trabajar en la remoción de asbesto son las incluidas junto con este formulario de solicitud de permiso general y cuyas tarjetas estén vigentes durante el período en que se lleve a cabo la actividad aplicable (p. ej. inspección, monitoreo, remoción, planificación, supervisión).

11. El dueño, agente o representante autorizado será responsable de que todo el personal tenga consigo y en un lugar visible su tarjeta de registro de la JCA mientras trabaje en la actividad de manejo de materiales con contenido de asbesto.

12. Deberá mantener un registro diario del nombre, número de registro de la tarjeta de la JCA y la firma de todo el personal que trabaje en el proyecto. Este deberá estar disponible en el proyecto para la inspección y la revisión de personal técnico de la JCA.

13. Deberá notificar por escrito, en un período no mayor de 5 días, el nombre de las personas que no fueron incluidas en el plan de trabajo y que comenzarán a trabajar en la remoción de asbesto luego de sometido este formulario de solicitud de permiso general. La notificación deberá incluir copia de las tarjetas de registro vigentes de la JCA para realizar estas labores.

14. No se permitirá personal en trabajos de remoción de asbesto cuya tarjeta de registro de la Junta esté vencida. Deberá recertificar a todo el personal que trabaje en la remoción de asbesto antes de la fecha de expiración de sus tarjetas y someterá evidencia de la recertificación (copia de las nuevas tarjetas) a la JCA.

DURANTE LA OPERACIÓN

15. Deberá aislar el área de trabajo de manera que evite el acceso de personas ajenas a dichas áreas.

16. Deberá instalar por lo menos 2 rótulos en lugares visibles, accesibles y legibles a una distancia no mayor de 50 pies y no menor de 20 pies del área de trabajo. El área de trabajo tiene que estar rotulada de la siguiente manera:

    PELIGRO NO ENTRE, removiéndose material que contiene asbesto.
    Inhalar fibras de asbesto puede causar daños serios a la salud.
    Evite levantar polvo.

17. Durante las tareas de remoción de material con contenido de asbesto, deberá estar presente un supervisor certificado que evidencie estar en el registro de personas certificadas de la JCA en trabajos de asbesto.

18. Antes y durante la operación deberá humedecer la superficie del material para que éste no gane acceso al aire o al terreno.

19. El material debe ser embolsado, envuelto o mantenerse mojado hasta que sea transferido a un recipiente cerrado antes del final de la jornada de trabajo.

20. Deberá utilizar ventilación local equipada con Filtros para Partículas Alta Eficiencia (HEPA, en inglés) cuando las labores de remoción lo requieran.

21. Durante el proceso de remoción, las partículas pequeñas del material deberán ser colectadas mediante el uso de aspiradoras equipadas con filtros HEPA.

PG-ASB-____-_____-_____
PARA USO OFICIAL

CONDICIONES PERMISO GENERAL PARA EL MANEJO DE MATERIALES CON CONTENIDO DE ASBESTO (CONTINUACIÓN)

22. Deberá utilizar dos capas de polietileno de 4 milésimas de espesor en las paredes y dos capas de 6 milésimas de espesor en el suelo.

23. En caso de trabajos de remoción de estucado de techo utilizando agua a presión deberá cumplir con lo siguiente:

    a) el sistema que se utilice para remover el estucado deberá instalarse, conservarse y operarse de acuerdo con las condiciones especificadas por el fabricante;
    b) deberá asegurarse de cubrir las paredes de tal manera que los plásticos no se desprendan durante la remoción;
    c) colocará diques en las puertas para asegurarse que el agua no se filtre hacia el exterior;
    d) deberá sellar adecuadamente los drenajes que se encuentren dentro del área de trabajo;
    e) el agua utilizada en la remoción deberá ser colectada mediante equipos de succión equipados con filtros HEPA;
    f) el agua colectada deberá ser filtrada en un sistema de filtros HEPA. Los filtros estarán colocados en serie de tal forma que el tamaño del poro disminuya progresivamente (100, 50 y 5 micrones).
    g) evitará usar agua en exceso la cual pudiera ganar acceso al terreno o a los cuerpos de agua a través de los drenajes o que pudiera filtrarse fuera del encierre.
    h) el agua una vez filtrada se dispondrá a través del sistema de alcantarillado sanitario.

24. En caso de trabajos de remoción de materiales de impermeabilización de techo deberá cumplir con lo siguiente:

    a) mantendrá el material húmedo en todo momento;
    b) evitará barrer en seco;
    c) los equipos de remoción estarán equipados con aspersores de agua o equipos de succión equipados con filtros HEPA; y
    d) evitará usar agua enmendada en exceso la cual pudiera ganar acceso al terreno o a los cuerpos de agua a través de los drenajes del agua de lluvia, respiraderos o ventiladores.

25. En caso de trabajos de remoción de pegamento de losas de vinilo mediante el uso de solventes deberá cumplir con lo siguiente:

    a) mantendrá copia de la hoja de datos de seguridad del material (MSDS, en inglés) del solvente a utilizarse en el lugar de trabajo en todo momento;
    b) deberá cumplir con todas las especificaciones establecidas en la hoja de datos de seguridad del material al manejar el mismo;
    c) evitará utilizar el solvente en lugares donde se registran altas temperaturas;
    d) deberá aislar el área de trabajo e instalar rótulos de precaución;
    e) deberá sellar el área de trabajo con plástico de 6 milésimas;
    f) mantendrá ventilación mecánica con filtros HEPA; y
    g) evitará que el solvente entre a los drenajes del edificio los cuales a su vez pudieran llegar al alcantarillado pluvial o sanitario.

26. Durante los trabajos de remoción de losas de vinilo mediante aplicación de calor deberá cumplir con lo siguiente:

    a) las losas de vinilo deberán estar en buenas condiciones;
    b) deberá examinar previamente las losas de vinilo para determinar si las mismas pudieran convertirse en desmenuzables durante la remoción;
    c) no podrá remover el pegamento de la losa mediante la técnica de aplicación de calor;
    d) evitará usar calor en exceso lo cual pudiera ocasionar incendios;
    e) deberá aislar el área de trabajo e instalar rótulos de precaución;
    f) deberá sellar el área de trabajo con plástico de 6 milésimas;
    g) mantendrá ventilación mecánica con filtros HEPA; y
    h) los trabajadores deberán utilizar respiradores equipados con filtros para vapores orgánicos.

27. Deberá preparar un área de descontaminación (decon) conectada junto al área regulada que incluya, sin limitarse a, un cuarto limpio, baño y un cuarto sucio.

28. En los trabajos Categoría I para la remoción de aislamiento de tuberías, las bolsas de guantes se pueden usar solamente para remover no más de 3 pies lineales al mismo tiempo. Para cantidades mayores de 3 pies lineales será necesario la construcción de un mini encierre o encierre completo. Una bolsa de plástico con guantes internos que provee un área encerrada para manejar las herramientas y el material con contenido de asbesto.

29. Las bolsas de guantes no deben utilizarse en superficies con una temperatura mayor de 150°F (65°C).

30. Al usar bolsas de guantes seguirá las reglas existentes en trabajos mayores para evitar que las fibras de asbesto lleguen al aire, esto incluye, pero sin limitarse a:

    a) mantener húmedo el asbesto.
    b) aislar el área de trabajo e instalar rótulos de precaución.
    c) filtrar el aire utilizando filtros HEPA.
    d) mantener presión negativa de aire dentro de la bolsa usando aspirador con filtro HEPA.
    e) las bolsas de guantes deberán tener rótulos de precaución de acuerdo con la reglamentación vigente.
    f) realizar muestreos de aire antes durante y después de las actividades de remoción y deberá realizar muestreo de aire personal durante dichas actividades.

31. Durante trabajos de remoción de escombros que se encuentren sobre el terreno, deberá colectar y disponer todo el terreno contaminado con partículas del material con asbesto las cuales no puedan ser colectadas manualmente o con aspiradoras HEPA.

PROTECCIÓN PERSONAL

32. Deberá cumplir con las medidas de seguridad y equipo de protección personal especificados en su plan de remoción de asbesto según la reglamentación que especifica la Oficina de Seguridad y Salud en el Trabajo (OSHO) del Departamento del Trabajo y Recursos Humanos.

MONITOREO GENERAL (MUESTRAS DE AIRE)

33. El análisis de las muestras de aire tomadas durante los trabajos de remoción estará a cargo de el/los laboratorio/s identificado/s en este formulario de solicitud de permiso general. El laboratorio contratado deberá estar acreditado por la *American Industrial Hygiene Association* (AIHA, en inglés). De haber algún cambio de laboratorio, deberá someter antes una modificación a este permiso.

34. Deberá realizar los muestreos de aire antes, durante y al finalizar la actividad de remoción.

35. Tomará un mínimo de seis muestras de aire al día.

36. Deberá realizarle muestras personales diarias al 25% de los trabajadores que se encuentren laborando en la actividad de remoción. Estas muestras deberán incluir el nombre y el número de registro otorgado por la Junta de cada persona que realice las muestras.

37. Las muestras de aire personales, de área y finales serán analizadas mediante el Método NIOSH 7400 – Microscopía de Contraste de Fase (PCM, en inglés).

38. Las muestras de aire de área deberán incluir la información por el nombre del edificio, las áreas específicas de los edificios y las estructuras de la planta donde se realicen. Este deberá realizarlo un especialista en muestreo, certificado y autorizado por la Junta. Deberán incluir el nombre y el número de registro otorgado por la Junta de cada persona que realice las muestras.

PG-ASB-____-_____-_____
PARA USO OFICIAL

CONDICIONES PERMISO GENERAL PARA EL MANEJO DE MATERIALES CON CONTENIDO DE ASBESTO (CONTINUACIÓN)

39. Deberá limpiar el cuarto con paños húmedos y esperar veinticuatro (24) horas. Limpiar el cuarto de nuevo con paños húmedos y aspirado de filtro HEPA. El cuarto se considera limpio cuando solamente hay 0.005 fibras por centímetro cúbico (f/cc).

40. Si la remoción de material con contenido de asbesto se realiza en una escuela pública o privada, las muestras de aire tomadas luego de la limpieza final (*Clearance*) serán analizadas mediante el método de Microscopía de Transmisión de Electrones (TEM, en inglés). El análisis se hará de acuerdo con los requisitos aplicables en el 40 CRF, Parte 763, Subparte E.

41. Si durante los trabajos de remoción surge la necesidad de tomar muestras de otros materiales sospechosos, los mismos deberán ser muestreados por un inspector certificado y registrado en la Junta. Las muestras colectadas deberán ser analizadas por un laboratorio reconocido por el *National Voluntary Laboratory Accreditation Program* (NVLAP, en inglés) y que cumpla satisfactoriamente con los criterios del *National Institute of Standards and Technology* (NIST, en inglés). La acreditación del laboratorio deberá incluir el análisis de las muestras mediante Microscopía de Luz Polarizada (PLM, en inglés).

TRANSPORTACIÓN Y DISPOSICIÓN DEL MCA

42. Las porciones pequeñas del material de desecho así como, todo material que se usó durante la limpieza o utilizados en el área de trabajo, deberán empacarse en bolsas dobles de 6 milésimas de espesor u otro tipo de envase impermeable apropiado que evite la emisión de fibras o partículas fuera de los envases y dispuestos según aprobado por la Junta.

43. En los envases deberán utilizar etiquetas que establezcan:

PELIGRO
CONTIENE FIBRAS DE ASBESTO
EVITE CREAR POLVO
PELIGRO DE CANCER Y ENFERMEDADES DE LOS PULMONES

44. La transportación del material contaminado estará a cargo de la compañía identificada en este formulario de solicitud de permiso general. De surgir la necesidad de utilizar otro transportista, deberá antes modificar este permiso e incluir el número de Permiso para Servicio de Recolección y Transportación de Desperdicios Sólidos No Peligrosos de la JCA y la fecha de expiración del mismo. Además incluirá la carta original del nuevo transportista.

45. La disposición final del material contaminado se hará en el sistema de relleno sanitario identificado en este formulario de solicitud de permiso general. De surgir la necesidad de utilizar otro sistema de relleno sanitario, deberá antes modificar este permiso e incluir el número de Permiso de Operación para un Sistema de Relleno Sanitario de Desperdicios Sólidos No Peligrosos de la JCA y la fecha de expiración del mismo. Además incluirá la carta original del lugar de disposición.

46. El lugar de disposición se rotulará de la siguiente manera:

PELIGRO
ÁREA DE DISPOSICIÓN DE ASBESTO

INFORMES

47. Deberá someter un informe mensual antes del día 15 del próximo mes que incluya las tareas específicas de los edificios y las estructuras de la planta donde se realizan las actividades de remoción junto con la cantidad de material con contenido de asbesto removidas. Estos informes no sustituyen el informe final de cierre.

48. Deberá someter un informe final de cierre en forma clara y legible dentro de los próximos 60 días de haber finalizado la remoción de material con contenido de asbesto. El mismo deberá incluir:

    a) hojas de cadena de custodia
    b) manifiestos de la disposición del material (claros y legibles)
    c) resumen de las tareas diarias

    De haber alguna diferencia entre la cantidad de asbesto autorizada para la remoción y la dispuesta, deberá someter una carta explicando la razón de la diferencia.

49. El incumplimiento con cualquiera de los requisitos de este permiso constituirá una violación y el dueño, agente o representante autorizado del proyecto estará sujeto a una orden administrativa a una penalidad administrativa o ambas.

50. Este permiso o sus modificaciones no podrán sobrepasar el periodo de 5 años de vigencia. Si el proyecto continua por más de los 5 años solicitados, deberá solicitar un permiso nuevo, o sea presentar una solicitud inicial.

51. Deberá someter a la Junta cualquier información adicional que ésta requiera.

HOMECA Inc.
RECYCLING
Environmental and Demolition Services

Plan de Trabajo para Remoción y Disposición de Materiales con Contenido de Asbestos (ACM)

Proyecto:

Desmantelamiento Antiguas Facilidades Olefins
Peñuelas, Puerto Rico

Preparado por:

Homeca Recycling Center Co, Inc
PO BOX 231
Mercedita, PR 00715

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B. Descripción de los trabajos

C. Equipo de protección personal requerido

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- Área de descontaminación
- Área limpia

E. Requerimientos de aislamientos del área de trabajo

F. Descripción de remoción de Materiales con contenido de ACM Thermal System Insulation (TSI)

G. Descontaminación del área de trabajo

H. Requisitos de transportación y disposición final de los desprecios y Asbestos asbesto

A. INFORMACIÓN SOBRE EL PROYECTO

Proyecto	Desmantelamiento de la Antigua Planta Olefins	
Ubicación del Proyecto:	Tallaboa Industrial Park Carr. 385 Km 5.4 Bo. Tallaboa Poniente, Peñuelas PR 00624	
Descripción del Proyecto	Remoción de materiales con contenido de asbestos	
Fecha de Comienzo & Terminación	Comienzo: 29 de septiembre de 2011 Terminación: 28 de Septiembre de 2012	
Duración del trabajo	12 meses (1 año)	
Dueño del Proyecto	Pro-Caribe Contacto: Lic. Ramón González Simounet Tel. (787) 836-2026	
Contratista General	Homeca Recycling Center, Inc.	
Información Contratista General	**Dirección Postal:** PO Box 231 Mercedita, PR 00715 **Dirección Física:** Calle Salmón # 1 Playa de Ponce Ponce, PR 00731 Tel. 787- 689-6150 Fax: 1-800-491-1218	
Facilidad de Disposición de Desperdicios	Relleno Sanitario Ponce Republic Waste Services **Dirección Física** Bo. La Cotorra Ave. Baramaya Final Ponce, PR 0031 **Dirección Postal** PO Box 7104 Ponce, PR 00732-7104 Contacto: Sra. Wanda Valenzuela Tel. (787) 841-7775 Permiso: IDF-58-0008	Relleno Sanitario Yauco Republic Waste Services **Dirección Física** 3199 Ave. Santiago Los Caballeros Ponce, PR 00717 **Dirección Postal** PO Box 300 Mercedita, PR 00715 Contacto: Sra. Jeannette Soto Tel. (787) 651-0108 Permiso: IDF-58-0032

Transportista de Desperdicios	RE Environmental Group, Inc. **Dirección Postal** PO BOX 479 Arroyo, PR 00714 **Dirección Física** Sunset Park # 10 Árroyo, PR 00714 Tel. (787) 864-8855 Fax. (787) 864-8844 **Permiso JCA:** SR-58-0547	Envirosolutions Recycling, Inc **Dirección Postal** HC01 Box 16131 Urb. Brisas Palma Sola Aguas Buenas, PR 00703 **Dirección Física** Calle 9 # 1-16 Urb. Brisas Palma Sola Aguas Buenas, PR 00703 Tel. (787) 636-2158 Fax. (800) 491-1218 **Permiso JCA:** SR-04-0633
	Envirorecycling, Inc. **Dirección Postal &** **Dirección Física** 1508 Paseo Fagot Suite # 3 Ponce, PR 00716 Tel. (787) 284-0044 Fax. (787) 841-1780 **Permiso JCA:** SR-58-0457	Agregados Sanabria **Dirección Postal** Bo. Playa A-79 Salinas, PR 00751 **Dirección Física** PO B OX 449 Salinas, PR 00751 Tel. (787) 824-3687 Fax. (787) 824-3762 **Permiso JCA:** SR-63-0663
Persona que preparó el Plan de Trabajo	Adolfo Valdes Agrait **Dirección Postal y Física:** PO BOX 219 Mercedita, PR 00715-0219 Urb. Los Almendros Calle Lady Di Ponce, PR 00715 Certificación: ASB-1110-0560-PD Vence: 10/07/2011 Tel. (787) 504-0279 Fax. (787) 842-8542	
Persona Responsable del Proyecto	Carlos O. Sánchez Delgado **Dirección Física:** Bo. Certenejas II Carr. 172 Km 7.5 Interior Cidra, PR 00739 **Dirección Postal:** PO BOX 231 Mercedita, PR 00715 Tel. (787) 689-6150 / (787) 380-2912	

Compañía a Cargo Monitoreo de Aire	**Colección de Muestras:** 1. The Atmospheric Assessment Group PO Box 219 Mercedita, PR 00715-0219 Tel. (787) 842-8592 / (787) 504-0279 **Lectura de Muestra:** 1. The Atmospheric Assessment Group PO Box 219 Mercedita, PR 00715-0219 Tel. (787) 842-8592 / (787) 504-0279 2. Altol Environmental Por David León PO Box 359 Mercedita, PR 00715 Tel. 787-835-4242 Fax. 787-835-2004 3. AES International, Inc. 611 Monserrate St. 2nd Floor Santurce, PR Tel. (787) 722-0220
Facilidad de Laboratorio	En caso de ser necesario se estará utilizando el laboratorio EMSL Analytical
Cantidad de ACM a Manejarse	550 yardas cúbicas aproximadamente

B. DESCRIPCIÓN DE LOS TRABAJOS

Objetivo y Alcance del Trabajo

El objetivo de este plan de trabajo es describir el procedimiento de remoción y disposición de material con contenido de Asbesto. El proyecto consiste de la remoción de materiales con contenido de asbestos (ACM) en la Antigua Planta Olefins localizado en el pueblo de Penuelas PR. El trabajo incluye la remoción de 55,000 pies lineales de"TSI" insulación termal y unos 9,000 pies cuadrados de "Transite" planchas de asbesto cemento. La insulación termal y las planchas de asbesto cemento se encuentra ubicado alrededor de la planta. La insulación se encuentra en diferentes diámetros y es utilizada como un aislante en las tuberías de la planta. El "transite" se utilizó para techar las áreas donde se encontraban los paneles de control de la planta.

Métodos

Se removerá utilizando herramientas manuales para los diferentes materiales, humedeciendo con agua enmendada. Una vez el material haya sido removido, se utilizarán los sistemas de recogido y descontaminación de los diferentes materiales según la regulación para este tipo de trabajo. Se removerán materiales no desmenuzables y desmenuzables de las diferentes áreas. El material a removerse es aproximadamente de 550 yardas cúbicas de material.

Los siguientes pasos son aplicables al proyecto:

Se manejará el asbesto en estricto acuerdo con las regulaciones estatales y federales y cualquier agencia gubernamental que pueda tener jurisdicción.

El personal contratado en la remoción o limpieza utilizará el equipo de seguridad necesario en todo momento que esté en el área restringida o área de trabajo.

Se establecerán áreas restringidas de trabajo utilizando cinta barricada de advertencia para evitar que personas ajenas tenga acceso al mismo. Se utilizará también carteles de advertencia según descrito en la reglamentación.

El comer, beber y/o fumar dentro del área de trabajo estará prohibido para todo el personal.

Se someterá un plan de trabajo para la mitigación de asbesto a la Junta de Calidad Ambiental para así obtener su aprobación.

Todo trabajo será en estricto cumplimiento a este plan de trabajo.

Solo serán asignados al proyecto personal debidamente entrenado y certificado ante la JCA para estos trabajos de asbestos. Se mantendrá un supervisor o persona competente en el área de trabajo en todo momento.

Se contratarán los servicios de un laboratorio certificado para las muestras de (aire) que se llevaran a cabo antes, durante y al finalizar para controlar el nivel de exposición de los empleados y limpieza final.

C. EQUIPO DE PROTECCIÓN REQUERIDA

El personal que realiza los trabajos de remoción de asbesto usará equipos de protección de las vías respiratorias, protección para los ojos y ropa para protección epidémica apropiadas para trabajar en condiciones adecuadas.

Los equipos de protección respiratoria a utilizarse estarán de acuerdo con los requisitos descritos en el Código Federal 29 CFR 1926.1101. Luego del monitoreo inicial de aire se procederá a asignar protección respiratoria de acuerdo a la concentración de partículas de asbesto en el aire utilizado la tabla adjunta. Esto será para el personal que este manejando las bolsas con el desperdicio conteniendo material con asbesto. Los respiradores tanto de presión negativa o positiva que se utilizan en el proyecto estarán provistos con cartuchos de combinación con filtros para vapores orgánicos y de alta eficiencia (HEPA) para partículas.

A cada trabajador se le asignará un respirador para el uso exclusivo de este. No se permitirá el intercambio de respiradores entre los trabajadores. Quedará terminantemente prohibido el uso de respiradores desechables o de mascaras contra polvo ("dust. masks"). A cada trabajador se le requerirá conducir con un cotejo de ajuste de su mascara ("fit check") antes de entrar al área de trabajo. Esto se hará cuantas veces sea necesario. El equipo de protección respiratoria se limpiará, se descontaminará y se probará diariamente. Solamente se utilizarán respiradores aprobados por (NIOSH) y (MSHA). Además, de la protección respiratoria, los trabajadores usarán gafas de seguridad, guantes de goma y ropa desechable que cubra todo el cuerpo. La ropa desechable, incluyendo los guantes y filtros de los respiradores, serán descartada como material que contiene asbesto (ACM) para mayor seguridad. El equipo de seguridad restante será descontaminado en las duchas que estarán en el área de descontaminación.

A continuación se presenta la tabla donde se explica cual será la protección respiratoria asignada a los trabajadores de acuerdo a la concentración de partículas de asbesto en el aire.

Cada vez que se utilice un respirador se deberá establecer un programa para el uso de los mismos, según lo indicado en el 29 CFR 1910.134

El visto bueno para la recuperación final del área se dará cuando la muestra final del aire tomada ("clerance"), después de concluir los trabajos, resulte en una concentración de fibras de asbesto de 0.005f/cc (fibras por centímetro cúbico) o menos, según lo recomendado por las Regulaciones.

NIVELES DE PROTECCIÓN RESPIRATORIA

NIVEL	*CONCENTRACIÓN DE ASBESTO EN EL AIRE*	*RESPIRADOR REQUERIDO*
1	No más de 1 f/cc (o sea 10 veces el PEL)	Media mascarilla tipo purificador aire con filtros de alta eficiencia
2	No más de 5 f/cc (o sea 50 veces el PEL)	Respirador tipo purificador de aire que cubra todo el rostro con filtros de alta eficiencia.
3	No más de 10 f/cc (o sea 100 veces el PEL)	1. Cualquier respirador purificador de aire motorizado equipo de filtros de alta eficiencia. 2. Cualquier respirador del tipo presión positiva (suministrado de aire) operado en flujo continuo.
4	No más de 100 f/cc (o sea 1000 veces el PEL)	Respirador de suministro de aire y que cubra todo el rostro operado en demanda de presión.
5	Más de 100 f/cc (más de 1000 veces el PEL) o cuanto se desconoce la concentración.	Respirador de suministro de aire que cubra todo el rostro operado en demanda de presión positiva y aire auto -contenido.

Cada vez que se utilice un respirador se deberá establecer un programa para el uso de los mismos, según lo indicado en el 29 CFR 1910.134

[1]Referencia de OSHA 29 CFR 1926.1101
NOTA: PEL significa nivel de exposición permitido, de las siglas en inglés "Permissible Exposure Limit" establecido por OSHA. El PEL de asbestos es 0.1 f/cc.

D. PROCEDIMIENTO PARA LA REMOCIÓN DE ASBESTO

Se deberá notificar por escrito a la Agencia Federal de Protección Ambiental (EPA) diez (10) días antes de comenzar los trabajos de remoción. Para iniciar los trabajos de preparación del área, se tomaran muestras de "Back-ground" para determinar el nivel de exposición del área.

El paso siguiente será instalar barreras de polietileno reforzado creando un perímetro de cuatro altas paredes dejando el techo abierto para así mantener todas las tuberías dentro de este perímetro para su remoción. En adición, prevenir que el aire pueda ganar acceso a las áreas a fin de que haya control de las áreas de trabajo dentro de perímetro cerrado en todo momento y manteniendo cerrado alrededor de cada rack de tuberías donde se estará removiendo toda la insulación controlando el aire y las fibras generadas en todo momento. Las planchas de asbesto cemento se removerán "open air"

Antes de comenzar las actividades de remoción se establecerán tres (3) áreas de control de acceso al encerramiento:

- Área de Trabajo

Todo trabajo de remoción se llevará a cabo en esta área. El personal que entre a esta área usará todo el equipo de protección y deberán estar certificados para el manejo del MCA. Toda entrada y salida de esta área se hará a través del área de descontaminación.

- Área de descontaminación

El personal, equipo y herramientas que salga del área de trabajo pasaran por el área de descontaminación. Para este proceso se instalaran duchas equipadas con un sistema para la recolección y filtración de las aguas servidas (8 "micro filtres) generadas en el proceso de remoción y descontaminación.

- Área Limpia

Esta área sirve de acceso al área de descontaminación. Es en el área limpia donde los trabajadores se cambiaran sus ropas domesticas y se pondrán la ropa y equipo de protección (incluyen los respiradores). Esta área tendrá un lugar designado a equipo para almacenar los artículos personales incluyendo la ropa doméstica de los trabajadores. Además, es también en este lugar donde se

mantendrán los equipos, materiales, ropa desechable de protección y otros artículos limpios y sin usar para ser provistos inmediatamente de ser necesario.

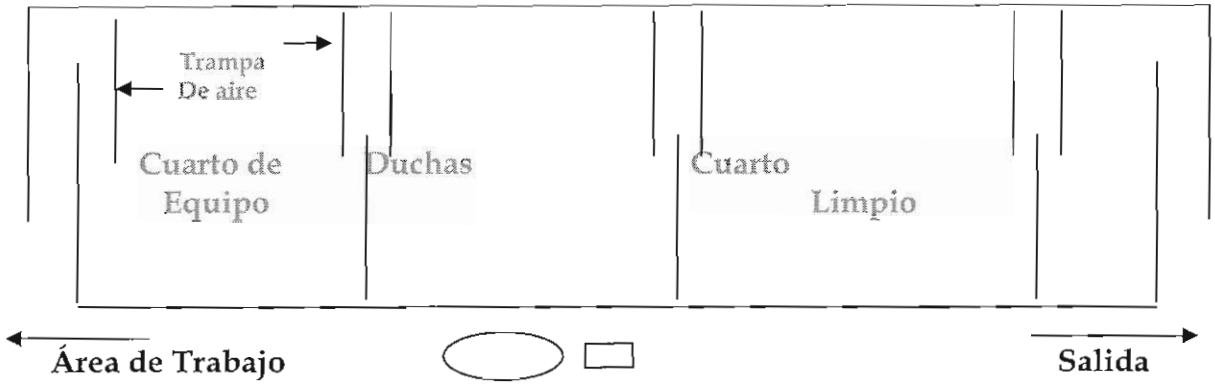
Antes de comenzar con los trabajos de remoción, las áreas circundantes al proyecto se rotularán advirtiendo a cualquier persona que por alguna razón ganará acceso a las áreas sobre los trabajos de remoción de asbesto que allí se estarán realizando. Los rótulos se localizarán en lugares conspicuos a través de los cuales se pueda ganar acceso al área del proyecto. Los rótulos a utilizarse serán de acuerdo a los especificados en el Código Federal 29 CFR 1926.1101 (k) (6) (ii).

PELIGRO
ASBESTO
RIESGO DE CANCER Y ENFERMEDAD PULMONAR

Personal Autorizado Solamente

SE REQUIERE RESPIRADORES Y EQUIPO DE PROTECCIÓN
PERSONAL EN ESTA AREA.

Modelo Típico de Sistema de Descontaminación



Sistema de Filtración

E. REQUERIMIENTO DE AISLAMIENTO DEL AREA DE TRABAJO

El área de trabajo se cubrirá con polietileno de 6 mil o mayor. Esto incluye barreras críticas en todas y cada una de las salidas de aire, utilizando pegamento y cinta adhesiva en todos los bordes. Se proveerá un solo acceso para entrar y salir del área de trabajo y de descontaminación.

Luego de encerrada el perímetro del área de trabajo, se instalara un sistema de ventilación que ayudara a mantener las fibras controladas en la zona de trabajo y áreas fueras de la misma. El equipo de presión negativa a utilizarse estará provisto con un filtro (HEPA). Este equipo tendrá una capacidad de mover al menos 2000 pies cúbicos de aire por minuto con tres etapas de filtro. El filtro principal (HEPA) tendrá un 99.97% de eficiencia en partículas de hasta 0.3 micrones. Este equipo sacará el aire filtrado al exterior del perímetro cerrado.

El sistema de ventilación funcionará durante el proceso de remoción, mientras dure el proyecto. Esto incluye el periodo de limpieza o descontaminación final hasta que las muestras de aire no excedan los limites permitidos de fibras de asbesto de 0.005f/cc.

F. REMOCIÓN DE ASBESTOS

La remoción de insulación y planchas de asbestos cemento se removerá de acuerdo a las regulaciones y exigencias de las agencias reguladoras, (EPA, OSHA, JCA). El material se removerá manualmente y después de ser removido será empacado en doble bolsa 6 milésimas, especialmente rotuladas para asbesto y será removido del área diariamente hacia el contenedor de almacenamiento. El material se removerá húmedo. Se asegurarán las paredes de polietileno de tal manera que no se desprenderán durante la remoción. El área en todo momento se mantendrá limpia y recogida del material ya removido, utilizando equipos de succión equipados con filtros HEPA. También se colocarán diques en las áreas para asegurar que el agua no se filtre hacia el exterior. El agua colectada será filtrada adecuadamente y se dispondrá a través del sistema de alcantarillado sanitario.

G. DESCONTAMINACIÓN DEL ÁREA DE TRABAJO

Luego de finalizado el trabajo de remoción del área de trabajo así como el área de descontaminación será limpiadas y descontaminadas. Los paños y demás utensilios desechables utilizados en la descontaminación y limpieza de todas las áreas serán depositados en bolsas rotuladas para empacar los desperdicios de (ACM). Sé removerán del área de trabajo todos los equipos y herramientas utilizadas en la operación. Dichos equipos y herramientas pasaran por el proceso de descontaminación antes de abandonar el área de trabajo. Luego de despejar y limpiar toda el área, esta se inspeccionará visualmente. Se seguirán los criterios de inspección que se muestran en la lista de cotejo incluido. Después de verificar la limpieza del área, se procederá a realizar un muestreo de aire para cumplir con los niveles de limpieza requeridos por las regulaciones de 0.005 f/cc. En el caso de que este parámetro no se cumpla, se procederá nuevamente a limpiar el área y se mostrara otra vez. El sistema de presión negativa se deberá mantener en operación hasta tanto se cumpla con el nivel de limpieza.

H. REQUERIMIENTO DE TRANSPORTACIÓN DEL ASBESTO

Se cumplirá con el reglamento del Departamento de Transportación Federal (DOT) y con el de Junta de Calidad Ambiental (JCA) para la transportación de los desperdicios generados en el proyecto hasta las facilidades de disposición final. El material de asbesto removido y generado se dispondrá en un vertedero autorizado por la Agencia Federal de Protección Ambiental (EPA por sus siglas en ingles) y la Junta de Calidad Ambiental (JCA) para estos fines.

Una vez el camión que contiene el desperdicio de asbesto arribe al vertedero, el chofer debe aproximarse a la localidad de desperdicio lo más cercano posible para descargar el material. Las bolsas empacadas se sacaran del camión y serán inspeccionadas a medida que se vayan descargando. En la eventualidad de que una bolsa empacada se haya roto o maltratado, el material será reempacado apropiadamente.

Las bolsas empacadas serán colocadas en el piso del lugar de disposición, no empujadas o tiradas del camión, ya que el peso del material mojado puede romper las mismas. El personal de descargue habrá de usar equipo protector apropiado que incluye ropa protectora desechable de cabeza, cuerpo y pies. También protección respiratoria mínima debe incluir el uso de respiradores de medio rostro equipados con filtros de alta eficiencia para partículas (HEPA).
Después de completado la remoción de todo el desperdicio, el área de carga del camión sea descontaminada usando aspiradoras (HEPA) y/o métodos húmedos de acuerdo con las regulaciones de (OSHA) y (EPA). Los paños de polietileno serán removidos y descartados junto con el material de limpieza contaminado y la ropa protectora en otras bolsas en el lugar de disposición.

Las bolsas o paquetes serán colocados, intactas en un área excavada y cubierta con un mínimo de seis (6) pulgadas de tierra limpia.

GOBIERNO DE PUERTO RICO
OFICINA DEL GOBERNADOR
JUNTA DE CALIDAD AMBIENTAL

Área de Calidad de Aire

PUERTO RICO VERDE

SOLICITUD DE PERMISO GENERAL
MANEJO DE MATERIALES CON CONTENIDO DE ASBESTO

HOJA DE COTEJO

PG-ASB 39-1212-0175-RC
PARA USO OFICIAL

☑ SOLICITUD INICIAL

	Documentos Solicitados		Sometido Solicitante	Recibido Uso oficial
1.	Un original y una copia del Formulario de la Solicitud de Permiso General Manejo de Materiales con Contenido de Asbesto completo en todas sus partes		☒	☒
2.	Plan de Trabajo de acuerdo con las Guías para Remociones de Asbesto del Reglamento para el Control de la Contaminación Atmosférica		☒	☒
3.	Plano o croquis de las estructuras o edificios donde se ilustra distribuida el área de trabajo. Incluye cuarto limpio, baño, cuarto sucio, sistema de aire negativo, salidas de aire limpio		☒	☒
4.	Plano de localización claro y legible		☒	☒
5.	Carta original de transportista(s)		☒	☒
6.	Carta original del lugar de disposición		☒	☒
7.	Copia de la tarjeta de registro vigente del Diseñador del Proyecto		☒	☒
8.	Copia de las tarjetas de registro vigentes de Trabajadores		☒	☒
9.	Copia de las tarjetas de registro vigentes de Supervisores		☒	☒
10.	Copia de las tarjetas de registro de los Especialistas en Muestreo		☒	☒
11.	Copia *AIHA Asbestos Analyst Registry (AAT Performance Results)* para los Especialistas en Muestreo presentados en la solicitud.		☒	☒
12.	Copia de la notificación a EPA ponchada con por lo menos 10 días laborables antes de la radicación si marcó Sí en el inciso II (H) de esta solicitud		☒	☐
13.	Pago correcto según requerido por el formulario de permiso general		☒	☐

☐ MODIFICACIONES

	Documentos Solicitados		Sometido Solicitante	Recibido Uso oficial
1.	Un original y una copia del Formulario de la Solicitud de Permiso General Manejo de Materiales con Contenido de Asbesto completo en todas sus partes		☐	☐
2.	Copia del permiso que desea modificar		☐	☐
3.	Carta explicativa de la modificación solicitada (por ej. si es un aumento en yardas cúbicas, explicación de la diferencia)		☐	☐
4.	Para cambio de laboratorio, copia de las tarjetas de registro de los Especialistas en Muestreo		☐	☐
5.	Para cambio de transportista, carta original del nuevo transportista(s)		☐	☐
6.	Para cambio de lugar de disposición, carta original del lugar de disposición		☐	☐
7.	Pago correcto según requerido por el formulario de permiso general		☐	☐

☐ TRANSFERENCIAS

	Documentos Solicitados		Sometido Solicitante	Recibido Uso oficial
1.	Un original y una copia del Formulario de la Solicitud de Permiso General Manejo de Materiales con Contenido de Asbesto completo en todas sus partes		☐	☐
2.	Copia del permiso que desea transferir		☐	☐
3.	Acuerdo firmado por las partes que incluya la fecha de transferencia		☐	☐
4.	Pago correcto según requerido por el formulario de permiso general		☐	☐

PARA USO OFICIAL

Recibido por: _____ Fecha: 11/12/12
Representante autorizado JCA (Día / Mes / Año)

Dirección Física: Edificio de Agencias Ambientales Cruz A. Matos, Urbanización San José Industrial Park
1375 Avenida Ponce de León, San Juan, PR 00926-2604 • Teléfono 787-767-8181 • Fax 787-756-5906
Dirección Postal: Apartado 11488, San Juan, PR 00910

GOBIERNO DE PUERTO RICO
OFICINA DEL GOBERNADOR
JUNTA DE CALIDAD AMBIENTAL

PUERTO RICO VERDE

Área de Calidad de Aire

SOLICITUD DE PERMISO GENERAL
MANEJO DE MATERIALES CON CONTENIDO DE ASBESTO

☒ SOLICITUD NUEVA
☐ MODIFICACIÓN
☐ TRANSFERENCIA

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PARA USO OFICIAL

I. IDENTIFICACIÓN DE PERSONAS Y ENTIDADES RESPONSABLES

Entidad	Nombre y Seg. Soc. Patronal	Dirección Física	Dirección Postal
Dueño	Tallaboa Industrial Park SS 660-72-0644 roberto@privaribe.com Correo Electrónico	Carr. 385 Km 5.4 Bo. Tallaboa Poniente Sec. Pueblito Peñuelas PR 00624 Teléfono: (787) 836-2000	Carr 385 Km 5.4 Privaribe Firm Delivery Bo. Tallaboa Poniente Sec. Pueblito Peñuelas PR 00624 Fax: (787) 836-2021
Agente o Rep. Autorizado	Honeco Recycling Center SS 660-69-0614 Correo Electrónico	Calle Salmon # 1 Puerto de Ponce Bo. La Playa Ponce PR Teléfono: (787) 841-2223	1575 Ave. Muñoz Rivera PMB 120 Ponce PR. 00717 Fax: (787) 984-0059

II. INFORMACIÓN DEL PROYECTO

A. Nombre del Proyecto: Desmantelamiento Antigua Planta Dielfos

B. Localización Física: Carr. 385 Km 5.4
(Calle o Carretera) (Núm. o Km)
Tallaboa Poniente Sec. El Pueblito Peñuelas PR 00624
(Barrio) (Pueblo)

C. Localización del Proyecto en Coordenadas Lambert (Stateplane NAD83): X: 42.838.484 Y: 37,780.722

D. Fecha estimada: Inicio de obras: 11/12/12 (Día / Mes / Año) Terminación de las obras: 11/12/2014 (Día / Mes / Año)

E. Cantidad de mca[1] a removerse: N/A yardas³ 800 pies² 80 pies lineales

F. Cantidad de mca a generarse: 800 yardas³

G. Descripción (identificación edificio, piso, etc.) de la estructura(s) donde se removerá el mca:
Los trabajos se realizaran en la Antigua Planta Petroquimica.

H. ¿El mca a removerse cumple con la definición de mca regulado según el 40 CRF[2] §61.141 y le aplica el 40 CRF §61.145(b)?
Sí ☒ No ☐
Se le apercibe que la determinación incorrecta de esta clasificación del material y el no emitir la notificación aplicable, podrá conllevar la revocación del permiso y la imposición de las multas correspondientes.

I. **Certificación del Diseñador del Plan de Trabajo:** Certifico que el Plan de Trabajo que se incluye con esta solicitud de permiso fue preparado de acuerdo con las Guías para Plan de Trabajo para Remociones de Asbesto del Reglamento para el Control de la Contaminación Atmosférica (RCCA), las buenas prácticas y siguiendo las reglamentaciones federales y estatales aplicables del 40 CRF Parte 763 y Parte 61 Subparte M, del 29 CRF §§1910.1001, 1910.134, 1926.1101, de la Regla 422 del Reglamento para el Control de la Contaminación Atmosférica y la Regla 1005 de la Regla de Manejo de Desperdicios No-Peligrosos.

Firma del Diseñador de Proyecto (en original)

[1] mca: material con contenido de asbesto
[2] Código de Regulaciones Federales

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PARA USO OFICIAL

HOJA DE PAGO

Nombre del Proyecto: Desmantelamiento Antiguas Facilidades PR Olefins

Nombre del Solicitante: Homeca Recycling Center Co, Inc

I. Cuotas de Radicación

A. Radicación de Solicitud

1. Solicitud nueva (cargo fijo $750.00)..... $☐7☐5☐0.☐0☐

2. Modificación ($300.00)..... $☐☐☐☐.☐☐
Las modificaciones incluyen cambios en transportista, lugar de disposición, laboratorio, cambios al plan de trabajo, aumento en cantidad de material removido y aumento en la duración del proyecto. Si existe aumento en la duración del proyecto deberá pagar en adición la cantidad correspondiente a la nueva duración del proyecto.

B. Cargos Fijos por Duración del proyecto de remoción de mca
La duración del proyecto empezará a contar a partir de la fecha de radicación de este permiso.

1. De 1 a 30 días..... $☐☐☐☐.☐☐
$350.00
2. De 31 a 90 días..... $☐☐☐☐.☐☐
$900.00
3. De 91 a 365 días..... $☐☐☐☐.☐☐
$1,500.00
4. De 366 a 730 días (2 años)..... $☐1☐5☐0☐.☐0☐
$3,000.00
5. De 731 a 1095 días (3 años)..... $☐☐☐☐.☐☐
$4,500.00
6. De 1096 a 1825 días (5 años)..... $☐☐☐☐.☐☐
$6,000.00

TOTAL..... $☐2☐2☐5☐0.☐0☐

C. Viviendas Unifamiliares..... $☐☐☐☐.☐☐
Las viviendas unifamiliares sólo pagará un cargo por radicación de $100.00 y estarán exentas del cargo fijo por duración del proyecto y se definen como una unidad de vivienda o residencia privada donde reside una familia y el dueño de la residencia es una persona natural y no una agencia, empresa, organización o corporación pública o privada. Este permiso será emitido por un año.

II. Cuotas de Transferencia (cargo fijo $100.00)..... $☐☐☐☐.☐☐

Nota: Los cargos por radicación y cargos fijos requeridos en esta solicitud no serán devueltos.

PARA USO OFICIAL

SECRETARÍA

Cotejado por: _____ (Radicador) Fecha: 11/12/12 (Día / Mes / Año) Cantidad a pagar: $ 2,250.00

DIVISIÓN DE FINANZAS

Efectivo ☐ Giro ☐ Cheque Corporativo ☒ #_____ Recibo # ☐☐☐☐☐☐☐☐☐☐

_____ (Firma Recaudador Oficial)

___/___/___ (Día / Mes / Año)

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PARA USO OFICIAL

CONDICIONES PERMISO GENERAL PARA EL MANEJO DE MATERIALES CON CONTENIDO DE ASBESTO

1. Mantendrá copia de este permiso en el proyecto en todo momento.

2. Se autoriza específicamente la actividad descrita en el formulario de la solicitud de permiso general para el manejo de materiales con contenido de asbesto y la misma se llevará a cabo de acuerdo con el plan de trabajo presentado junto con el formulario de esta solicitud.

3. La actividad de manejo de materiales con contenido de asbesto no podrá exceder el período solicitado en el formulario de solicitud de permiso general. El dueño, agente o representante autorizado deberá presentar una modificación a este permiso si la actividad para el manejo de materiales con contenido de asbesto debe extenderse por más del tiempo solicitado. Si el permiso expira antes de someterse la modificación, deberá someter una nueva solicitud y un formulario nuevo de permiso general.

4. El dueño, agente o representante autorizado deberá notificar a la Junta de Calidad Ambiental (JCA) la fecha real de comienzo el mismo día o antes de comenzar las actividades de remoción de material con contenido de asbesto.

5. El dueño, agente o representante autorizado deberá cumplir con los requisitos aplicables de notificación contenidos en la Sección 61.145(b) del 40 CRF. Esta notificación, de ser aplicable, deberá enviarse en original y dos copias a *US EPA Caribbean Environmental Protection Division*, Centro Europa Building, Suite 417, 1492 Ponce de León Avenue, Stop 22, San Juan, PR 00907-4127. Si de acuerdo con la Sección 61.145(b) del 40 CRF, el dueño, agente o representante autorizado tuviese que someter a la EPA otra notificación adicional a la radicada con esta solicitud, deberá someter a la JCA una copia de dicha notificación adicional sometida a la EPA en la misma fecha en que notifique a la EPA. Se le apercibe que el incumplimiento con este requisito, de ser aplicable, podrá conllevar la revocación del permiso y la imposición de las multas correspondientes.

6. El dueño, agente o representante autorizado deberá notificar por escrito la fecha real de terminación del proyecto de remoción no más tarde de 5 días de terminado el proyecto. Se aceptarán notificaciones adelantadas por fax. Si la notificación es adelantada por fax, deberá enviar la notificación original por correo o radicarla en la Oficina de Radicaciones de Secretaría de la Junta de Calidad Ambiental.

7. Deberá cumplir con todas las especificaciones establecidas en el plan de trabajo entregado con este formulario de solicitud de permiso general. Para efectuar cualquier cambio de las especificaciones del plan de trabajo deberá someter una modificación a este permiso.

8. Las actividades de remoción, transporte y disposición del material con contenido de asbesto se realizarán de acuerdo con los requisitos y en cumplimiento con la Regla 422 del Reglamento para el Control de la Contaminación Atmosférica (RCCA) y de acuerdo con los requisitos aplicables del:

   a. Título 40 del CRF, Parte 61, Subparte M, Estándares Nacionales de Emisiones para asbesto.

   b. Título 40 del CRF, Parte 763, Subparte E, Materiales con Contenido de Asbesto en las Escuelas si la actividad de remoción, transporte y disposición del material que contiene asbesto es realizada en una escuela pública o privada.

9. De acuerdo con la Regla 420 del Reglamento para el Control de la Contaminación Atmosférica (RCCA) no causará ni permitirá la emisión a la atmósfera de materia que produzca un olor objetable o desagradable que se pueda percibir en predios que no sean aquellos que han sido designados para propósitos de la remoción de asbesto.

PERSONAL AUTORIZADO

10. Todo el personal (trabajador, supervisor, inspector, planificador, diseñador de proyecto y especialista en muestreo) que trabaje en la remoción de asbesto deberá estar autorizado y registrado en la Junta. Las personas autorizadas para trabajar en la remoción de asbesto son las incluidas junto con este formulario de solicitud de permiso general y cuyas tarjetas estén vigentes durante el período en que se lleve a cabo la actividad aplicable (p. ej. inspección, monitoreo, remoción, planificación, supervisión).

11. El dueño, agente o representante autorizado será responsable de que todo el personal tenga consigo y en un lugar visible su tarjeta de registro de la JCA mientras trabaje en la actividad de manejo de materiales con contenido de asbesto.

12. Deberá mantener un registro diario del nombre, número de registro de la tarjeta de la JCA y la firma de todo el personal que trabaje en el proyecto. Este deberá estar disponible en el proyecto para la inspección y la revisión de personal técnico de la JCA.

13. Deberá notificar por escrito, en un período no mayor de 5 días, el nombre de las personas que no fueron incluidas en el plan de trabajo y que comenzarán a trabajar en la remoción de asbesto luego de sometido este formulario de solicitud de permiso general. La notificación deberá incluir copia de las tarjetas de registro vigentes de la JCA para realizar estas labores.

14. No se permitirá personal en trabajos de remoción de asbesto cuya tarjeta de registro de la Junta esté vencida. Deberá recertificar a todo el personal que trabaje en la remoción de asbesto antes de la fecha de expiración de sus tarjetas y someterá evidencia de la recertificación (copia de las nuevas tarjetas) a la JCA.

DURANTE LA OPERACIÓN

15. Deberá aislar el área de trabajo de manera que evite el acceso de personas ajenas a dichas áreas.

16. Deberá instalar por lo menos 2 rótulos en lugares visibles, accesibles y legibles a una distancia no mayor de 50 pies y no menor de 20 pies del área de trabajo. El área de trabajo tiene que estar rotulada de la siguiente manera:

PELIGRO NO ENTRE, removiéndose material que contiene asbesto.
Inhalar fibras de asbesto puede causar daños serios a la salud.
Evite levantar polvo.

17. Durante las tareas de remoción de material con contenido de asbesto, deberá estar presente un supervisor certificado que evidencie estar en el registro de personas certificadas de la JCA en trabajos de asbesto.

18. Antes y durante la operación deberá humedecer la superficie del material para que éste no gane acceso al aire o al terreno.

19. El material debe ser embolsado, envuelto o mantenerse mojado hasta que sea transferido a un recipiente cerrado antes del final de la jornada de trabajo.

20. Deberá utilizar ventilación local equipada con Filtros para Partículas Alta Eficiencia (HEPA, en inglés) cuando las labores de remoción lo requieran.

21. Durante el proceso de remoción, las partículas pequeñas del material deberán ser colectadas mediante el uso de aspiradoras equipadas con filtros HEPA.

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PARA USO OFICIAL

CONDICIONES PERMISO GENERAL PARA EL MANEJO DE MATERIALES CON CONTENIDO DE ASBESTO (CONTINUACIÓN)

22. Deberá utilizar dos capas de polietileno de 4 milésimas de espesor en las paredes y dos capas de 6 milésimas de espesor en el suelo.

23. En caso de trabajos de remoción de estucado de techo utilizando agua a presión deberá cumplir con lo siguiente:

    a) el sistema que se utilice para remover el estucado deberá instalarse, conservarse y operarse de acuerdo con las condiciones especificadas por el fabricante;
    b) deberá asegurarse de cubrir las paredes de tal manera que los plásticos no se desprendan durante la remoción;
    c) colocará diques en las puertas para asegurarse que el agua no se filtre hacia el exterior;
    d) deberá sellar adecuadamente los drenajes que se encuentren dentro del área de trabajo;
    e) el agua utilizada en la remoción deberá ser colectada mediante equipos de succión equipados con filtros HEPA;
    f) el agua colectada deberá ser filtrada en un sistema de filtros HEPA. Los filtros estarán colocados en serie de tal forma que el tamaño del poro disminuya progresivamente (100, 50 y 5 micrones).
    g) evitará usar agua en exceso la cual pudiera ganar acceso al terreno o a los cuerpos de agua a través de los drenajes o que pudiera filtrarse fuera del encierre.
    h) el agua una vez filtrada se dispondrá a través del sistema de alcantarillado sanitario.

24. En caso de trabajos de remoción de materiales de impermeabilización de techo deberá cumplir con lo siguiente:

    a) mantendrá el material húmedo en todo momento;
    b) evitará barrer en seco;
    c) los equipos de remoción estarán equipados con aspersores de agua o equipos de succión equipados con filtros HEPA; y
    d) evitará usar agua enmendada en exceso la cual pudiera ganar acceso al terreno o a los cuerpos de agua a través de los drenajes del agua de lluvia, respiraderos o ventiladores.

25. En caso de trabajos de remoción de pegamento de losas de vinilo mediante el uso de solventes deberá cumplir con lo siguiente:

    a) mantendrá copia de la hoja de datos de seguridad del material (MSDS, en inglés) del solvente a utilizarse en el lugar de trabajo en todo momento;
    b) deberá cumplir con todas las especificaciones establecidas en la hoja de datos de seguridad del material al manejar el mismo;
    c) evitará utilizar el solvente en lugares donde se registran altas temperaturas;
    d) deberá aislar el área de trabajo e instalar rótulos de precaución;
    e) deberá sellar el área de trabajo con plástico de 6 milésimas;
    f) mantendrá ventilación mecánica con filtros HEPA; y
    g) evitará que el solvente entre a los drenajes del edificio los cuales a su vez pudieran llegar al alcantarillado pluvial o sanitario.

26. Durante los trabajos de remoción de losas de vinilo mediante aplicación de calor deberá cumplir con lo siguiente:

    a) las losas de vinilo deberán estar en buenas condiciones;
    b) deberá examinar previamente las losas de vinilo para determinar si las mismas pudieran convertirse en desmenuzables durante la remoción;
    c) no podrá remover el pegamento de la losa mediante la técnica de aplicación de calor;
    d) evitará usar calor en exceso lo cual pudiera ocasionar incendios;
    e) deberá aislar el área de trabajo e instalar rótulos de precaución;
    f) deberá sellar el área de trabajo con plástico de 6 milésimas;
    g) mantendrá ventilación mecánica con filtros HEPA; y
    h) los trabajadores deberán utilizar respiradores equipados con filtros para vapores orgánicos.

27. Deberá preparar un área de descontaminación (decon) conectada junto al área regulada que incluya, sin limitarse a, un cuarto limpio, baño y un cuarto sucio.

28. En los trabajos Categoría I para la remoción de aislamiento de tuberías, las bolsas de guantes se pueden usar solamente para remover no más de 3 pies lineales al mismo tiempo. Para cantidades mayores de 3 pies lineales será necesario la construcción de un mini encierre o encierre completo. Una bolsa de plástico con guantes internos que provee un área encerrada para manejar las herramientas y el material con contenido de asbesto.

29. Las bolsas de guantes no deben utilizarse en superficies con una temperatura mayor de 150°F (65°C).

30. Al usar bolsas de guantes seguirá las reglas existentes en trabajos mayores para evitar que las fibras de asbesto lleguen al aire, esto incluye, pero sin limitarse a:

    a) mantener húmedo el asbesto.
    b) aislar el área de trabajo e instalar rótulos de precaución.
    c) filtrar el aire utilizando filtros HEPA.
    d) mantener presión negativa de aire dentro de la bolsa usando aspirador con filtro HEPA.
    e) las bolsas de guantes deberán tener rótulos de precaución de acuerdo con la reglamentación vigente.
    f) realizar muestreos de aire antes durante y después de las actividades de remoción y deberá realizar muestreo de aire personal durante dichas actividades.

31. Durante trabajos de remoción de escombros que se encuentren sobre el terreno, deberá colectar y disponer todo el terreno contaminado con partículas del material con asbesto las cuales no puedan ser colectadas manualmente o con aspiradoras HEPA.

PROTECCIÓN PERSONAL

32. Deberá cumplir con las medidas de seguridad y equipo de protección personal especificados en su plan de remoción de asbesto según la reglamentación que especifica la Oficina de Seguridad y Salud en el Trabajo (OSHO) del Departamento del Trabajo y Recursos Humanos.

MONITOREO GENERAL (MUESTRAS DE AIRE)

33. El análisis de las muestras de aire tomadas durante los trabajos de remoción estará a cargo de el/los laboratorio/s identificado/s en este formulario de solicitud de permiso general. El laboratorio contratado deberá estar acreditado por la *American Industrial Hygiene Association* (AIHA, en inglés). De haber algún cambio de laboratorio, deberá someter antes una modificación a este permiso.

34. Deberá realizar los muestreos de aire antes, durante y al finalizar la actividad de remoción.

35. Tomará un mínimo de seis muestras de aire al día.

36. Deberá realizarle muestras personales diarias al 25% de los trabajadores que se encuentren laborando en la actividad de remoción. Estas muestras deberán incluir el nombre y el número de registro otorgado por la Junta de cada persona que realice las muestras.

37. Las muestras de aire personales, de área y finales serán analizadas mediante el Método NIOSH 7400 – Microscopía de Contraste de Fase (PCM, en inglés).

38. Las muestras de aire de área deberán incluir la información por el nombre del edificio, las áreas específicas de los edificios y las estructuras de la planta donde se realicen. Este deberá realizarlo un especialista en muestreo, certificado y autorizado por la Junta. Deberán incluir el nombre y el número de registro otorgado por la Junta de cada persona que realice las muestras.

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PARA USO OFICIAL

CONDICIONES PERMISO GENERAL PARA EL MANEJO DE MATERIALES CON CONTENIDO DE ASBESTO (CONTINUACIÓN)

39. Deberá limpiar el cuarto con paños húmedos y esperar veinticuatro (24) horas. Limpiar el cuarto de nuevo con paños húmedos y aspirado de filtro HEPA. El cuarto se considera limpio cuando solamente hay 0.005 fibras por centímetro cúbico (f/cc).

40. Si la remoción de material con contenido de asbesto se realiza en una escuela pública o privada, las muestras de aire tomadas luego de la limpieza final (*Clearance*) serán analizadas mediante el método de Microscopía de Transmisión de Electrones (TEM, en inglés). El análisis se hará de acuerdo con los requisitos aplicables en el 40 CRF, Parte 763, Subparte E.

41. Si durante los trabajos de remoción surge la necesidad de tomar muestras de otros materiales sospechosos, los mismos deberán ser muestreados por un inspector certificado y registrado en la Junta. Las muestras colectadas deberán ser analizadas por un laboratorio reconocido por el *National Voluntary Laboratory Accreditation Program* (NVLAP, en inglés) y que cumpla satisfactoriamente con los criterios del *National Institute of Standards and Technology* (NIST, en inglés). La acreditación del laboratorio deberá incluir el análisis de las muestras mediante Microscopía de Luz Polarizada (PLM, en inglés).

TRANSPORTACIÓN Y DISPOSICIÓN DEL MCA

42. Las porciones pequeñas del material de desecho así como, todo material que se usó durante la limpieza o utilizados en el área de trabajo, deberán empacarse en bolsas dobles de 6 milésimas de espesor u otro tipo de envase impermeable apropiado que evite la emisión de fibras o partículas fuera de los envases y dispuestos según aprobado por la Junta.

43. En los envases deberán utilizar etiquetas que establezcan:

PELIGRO
CONTIENE FIBRAS DE ASBESTO
EVITE CREAR POLVO
PELIGRO DE CANCER Y ENFERMEDADES DE LOS PULMONES

44. La transportación del material contaminado estará a cargo de la compañía identificada en este formulario de solicitud de permiso general. De surgir la necesidad de utilizar otro transportista, deberá antes modificar este permiso e incluir el número de Permiso para Servicio de Recolección y Transportación de Desperdicios Sólidos No Peligrosos de la JCA y la fecha de expiración del mismo. Además incluirá la carta original del nuevo transportista.

45. La disposición final del material contaminado se hará en el sistema de relleno sanitario identificado en este formulario de solicitud de permiso general. De surgir la necesidad de utilizar otro sistema de relleno sanitario, deberá antes modificar este permiso e incluir el número de Permiso de Operación para un Sistema de Relleno Sanitario de Desperdicios Sólidos No Peligrosos de la JCA y la fecha de expiración del mismo. Además incluirá la carta original del lugar de disposición.

46. El lugar de disposición se rotulará de la siguiente manera:

PELIGRO
ÁREA DE DISPOSICIÓN DE ASBESTO

INFORMES

47. Deberá someter un informe mensual antes del día 15 del próximo mes que incluya las tareas específicas de los edificios y las estructuras de la planta donde se realizan las actividades de remoción junto con la cantidad de material con contenido de asbesto removidas. Estos informes no sustituyen el informe final de cierre.

48. Deberá someter un informe final de cierre en forma clara y legible dentro de los próximos 60 días de haber finalizado la remoción de material con contenido de asbesto. El mismo deberá incluir:

    a) hojas de cadena de custodia
    b) manifiestos de la disposición del material (claros y legibles)
    c) resumen de las tareas diarias

    De haber alguna diferencia entre la cantidad de asbesto autorizada para la remoción y la dispuesta, deberá someter una carta explicando la razón de la diferencia.

49. El incumplimiento con cualquiera de los requisitos de este permiso constituirá una violación y el dueño, agente o representante autorizado del proyecto estará sujeto a una orden administrativa a una penalidad administrativa o ambas.

50. Este permiso o sus modificaciones no podrán sobrepasar el periodo de 5 años de vigencia. Si el proyecto continua por más de los 5 años solicitados, deberá solicitar un permiso nuevo, o sea presentar una solicitud inicial.

51. Deberá someter a la Junta cualquier información adicional que ésta requiera.

SOLICITUD DE PERMISO GENERAL
MANEJO DE MATERIALES CON CONTENIDO DE ASBESTO
PÁGINA 2 DE 7

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III. CERTIFICACIÓN DE INFORMACIÓN POR EL DUEÑO

Yo, Ramon S. Gonzalez (Nombre, Inicial, Apellidos) mayor de edad, Casado (Estado Civil), vecino de San Juan (Municipio) y que ocupo la posición de Presidente en Tallaboa Industrial Park (Organización, Agencia, Compañía u otro).

Certifico que:

1. Mi nombre y demás circunstancias personales son las antes indicadas.
2. Toda la información vertida en esta solicitud y en los documentos que se acompañan es cierta, correcta y completa a mi mejor saber y entender.
3. Afirmo y reconozco las consecuencias de incluir y someter información falsa o incompleta en dichos documentos.
4. Autorizo a Eduardo Ramos Vera (Nombre, Inicial, Apellidos), que ocupa la posición de Gestor en Homeca Recycling Center Co, Inc (Organización, Agencia, Compañía u otro) a radicar y llevar a cabo las gestiones necesarias, relacionadas con este permiso, en mi nombre y representación ante la Junta.

Y para que así conste, firmo la presente certificación en San Juan, (Municipio) de Puerto Rico, hoy 30 / oct / 12 (Día / Mes / Año).

Firma del dueño (en original)

IV. IDENTIFICACIÓN DE SERVICIOS Y ENTIDADES RESPONSABLES: Debe incluir como mínimo un laboratorio, un transportador y un lugar de disposición.

Entidad	Nombre, Núm. Registro o permiso	Dirección Física	Dirección Postal
Diseñador de Proyecto	Carlos Ocasio ASB- 1012 - 0579 PD Vence: 24 / SEPT / 2013 Correo Electrónico	Carr. 378 Km 1.0 Bo Marcos del Río Guayanilla PR 00656 Teléfono: (787) 430-6941	Parque Industrial Sabanetas Edificio M-1350 Ponce PR 00715 Fax (787) 430-6941
Laboratorio	Altol Environmental SS 660 - 54 - 3434 carlos.ocasio@altolenterprises.com Correo Electrónico	Sabanetas Industrial Park Building M-1380 Ponce, PR 00716 Teléfono: 787-848-6050	PO BOX 359 Mercedita, PR 00715 Fax: 787-835-2004
	SS - N/A - Correo Electrónico	N/A Teléfono:	N/A Fax:
Transportador	Environmental & Transport Núm. SR - ____ - ____ Vence: ____ / ____ / ____ omayra.envirotransport@yahoo.com Correo Electrónico	Suite 306 Cotto Laurel Ponce Teléfono: 787-913-5005	1575 Ave. Munoz Rivera PMB 120 Ponce, PR 000717 Fax: 787-813-5006
	Envirorecycling, Inc Núm. SR - 58 - 0457 Vence: 16 / dic / 2013 envirorecycling@yahoo.com Correo Electrónico	1508 Paseo Fagot Suite # 3 Urb. Jardines de Fagot Ponce, PR 00716 Teléfono: 787-284-0044	1508 Paseo Fagot Suite # 3 Urb. Jardines de Fagot Ponce, PR 00716 Fax: 787-848-1760
	Núm. SR - N/A Vence: N/A / Correo Electrónico	N/A Teléfono:	N/A Fax:
	Núm. SR - N/A Vence: N/A / Correo Electrónico	N/A Teléfono:	N/A Fax:

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PARA USO OFICIAL

Lugar de Disposición	Allied Waste Núm. IDF - 58 - 0008 Vence: 22 /nov /2014 w.valenzuela@republicservice.com Correo Electrónico	Bo. Cotorra Ave. Baramaya Final Ponce, PR 00732 Teléfono: 787-841-775	PO BOX 7104 Ponce, PR 00732 Fax: 787-841-1048
	Núm. IDF - N/A Vence: N/A Correo Electrónico	N/A Teléfono:	N/A Fax:

V. DETERMINACIÓN ADMINISTRATIVA (PARA USO OFICIAL)

Este permiso podrá ser revocado (cancelado) antes de la fecha de vencimiento si se violan las condiciones del permiso o las disposiciones del Reglamento para el Control de la Contaminación Atmosférica, del Reglamento para el Manejo de Desperdicios Sólidos o del Reglamento para el Trámite de los Permisos Generales. La información y condiciones sometidas en su solicitud forman parte de esta autorización. La Junta se reserva el derecho de intervenir con la fuente en otros aspectos no cubiertos en esta autorización.

JUNTA DE CALIDAD AMBIENTAL

Fecha de expedición: 11/12/12 (Día / Mes / Año) APROBADO Fecha de expiración: 11/12/2014. (Día / Mes / Año)

Firma Representante JCA

HOMECA
RECYCLING
Environmental and Demolition Services

Plan de Trabajo para Remoción y Disposición de Materiales con Contenido de Asbestos (ACM)

Proyecto:

Desmantelamiento Antiguas Facilidades Olefins
Peñuelas, Puerto Rico

Preparado por:

Homeca Recycling Center Co, Inc
PO BOX 231
Mercedita, PR 00715

Tabla de Contenido

A. Información sobre el proyecto

B. Descripción de los trabajos

C. Equipo de protección personal requerido

D. Procedimientos para la remoción de Asbestos

- Área de Trabajo
- Área de descontaminación
- Área limpia

E. Requerimientos de aislamientos del área de trabajo

F. Descripción de remoción de Materiales con contenido de ACM Thermal System Insulation (TSI) and asbesto cemento (Transite panel)

G. Descontaminación del área de trabajo

H. Requisitos de transportación y disposición final de los desprecios y Asbestos asbesto

A. INFORMACIÓN SOBRE EL PROYECTO

Proyecto	Desmantelamiento de la Antigua Planta Olefins
Ubicación del Proyecto:	Tallaboa Industrial Park Carr. 385 Km 5.4 Bo. Tallaboa Poniente, Peñuelas PR 00624
Descripción del Proyecto	Remoción de materiales con contenido de asbestos
Fecha de Comienzo & Terminación	Hacer referencia al permiso aprobado
Duración del trabajo	12 meses (1 año)
Dueño del Proyecto	Pro-Caribe Contacto: Lic. Ramón González Simounet Tel. (787) 836-2026
Contratista General	Homeca Recycling Center, Inc.
Información Contratista General	**Dirección Postal:** 1575 Ave. Munoz Rivera PMB 120 Ponce, PR 00717-0211 **Dirección Física:** Calle Salmón # 1 Playa de Ponce Ponce, PR 00731 Tel. 787- 689-6150 Fax: 1-800-491-1218
Facilidad de Disposición de Desperdicios	Relleno Sanitario Ponce Republic Waste Services **Dirección Física** Bo. La Cotorra Ave. Baramaya Final Ponce, PR 0031 **Dirección Postal** PO Box 7104 Ponce, PR 00732-7104 Contacto: Sra. Wanda Valenzuela Tel. (787) 841-7775 Permiso: IDF-58-0008

Transportista de Desperdicios	Envirorecycling 1508 Paseo Fagot Suite 3 Ponce, PR 00716 Tel. 787-458-3736 Contacto: Jose Velez	Enviromental & Transport 1575 Ave. Munoz Rivera PMB 372 Ponce, PR 0071 Tel. 787-813-0004 Contacto: Jayline Correa
Persona que preparó el Plan de Trabajo	Carlos E. Ocasio Certificación: ASB-1012-0579-PD Vence: 24 sept 2013	
Persona Responsable del Proyecto	Carlos O. Sánchez Delgado **Dirección Física:** Bo. Certenejas II Carr. 172 Km 7.5 Interior Cidra, PR 00739 **Dirección Postal:** PO BOX 231 Mercedita, PR 00715 Tel. (787) 841-2223 / (787) 380-2912	
Compañía a Cargo Monitoreo de Aire	1. Altol Environmental PO Box 359 Mercedita, PR 00715 Tel. 787-835-4242 Fax. 787-835-2004	
Facilidad de Laboratorio	En caso de ser necesario se estará utilizando el laboratorio EMSL Analytical	
Cantidad de ACM a Manejarse	800 yardas cúbicas aproximadamente	

B. DESCRIPCIÓN DE LOS TRABAJOS

Objetivo y Alcance del Trabajo

El objetivo de este plan de trabajo es describir el procedimiento de remoción y disposición de material con contenido de Asbesto. El proyecto consiste de la remoción de materiales con contenido de asbestos (ACM) en la Antigua Planta Olefins localizado en el pueblo de Penuelas PR. El trabajo incluye la remoción de 800 pies lineales de"TSI" insulación termal y unos 80 pies cuadrados de "Transite" planchas de asbesto cemento. La insulación termal y las planchas de asbesto cemento se encuentra ubicado alrededor de la planta. La insulación se encuentra en diferentes diámetros y es utilizada como un aislante en las tuberías de la planta. El "transite" se utilizó para techar las áreas donde se encontraban los paneles de control de la planta.

Métodos

Se removerá utilizando herramientas manuales para los diferentes materiales, humedeciendo con agua enmendada. Una vez el material haya sido removido, se utilizarán los sistemas de recogido y descontaminación de los diferentes materiales según la regulación para este tipo de trabajo. Se removerán materiales no desmenuzables y desmenuzables de las diferentes áreas. El material a removerse es aproximadamente de 550 yardas cúbicas de material.

Los siguientes pasos son aplicables al proyecto:

Se manejará el asbesto en estricto acuerdo con las regulaciones estatales y federales y cualquier agencia gubernamental que pueda tener jurisdicción.

El personal contratado en la remoción o limpieza utilizará el equipo de seguridad necesario en todo momento que esté en el área restringida o área de trabajo.

Se establecerán áreas restringidas de trabajo utilizando cinta barricada de advertencia para evitar que personas ajenas tenga acceso al mismo. Se utilizará también carteles de advertencia según descrito en la reglamentación.

El comer, beber y/o fumar dentro del área de trabajo estará prohibido para todo el personal.

Se someterá un plan de trabajo para la mitigación de asbesto a la Junta de Calidad Ambiental para así obtener su aprobación.

Todo trabajo será en estricto cumplimiento a este plan de trabajo.

Solo serán asignados al proyecto personal debidamente entrenado y certificado ante la JCA para estos trabajos de asbestos. Se mantendrá un supervisor o persona competente en el área de trabajo en todo momento.

Se contratarán los servicios de un laboratorio certificado para las muestras de (aire) que se llevaran a cabo antes, durante y al finalizar para controlar el nivel de exposición de los empleados y limpieza final.

C. EQUIPO DE PROTECCIÓN REQUERIDA

El personal que realiza los trabajos de remoción de asbesto usará equipos de protección de las vías respiratorias, protección para los ojos y ropa para protección epidémica apropiadas para trabajar en condiciones adecuadas.

Los equipos de protección respiratoria a utilizarse estarán de acuerdo con los requisitos descritos en el Código Federal 29 CFR 1926.1101. Luego del monitoreo inicial de aire se procederá a asignar protección respiratoria de acuerdo a la concentración de partículas de asbesto en el aire utilizado la tabla adjunta. Esto será para el personal que este manejando las bolsas con el desperdicio conteniendo material con asbesto. Los respiradores tanto de presión negativa o positiva que se utilizan en el proyecto estarán provistos con cartuchos de combinación con filtros para vapores orgánicos y de alta eficiencia (HEPA) para partículas.

A cada trabajador se le asignará un respirador para el uso exclusivo de este. No se permitirá el intercambio de respiradores entre los trabajadores. Quedará terminantemente prohibido el uso de respiradores desechables o de mascaras contra polvo ("dust. masks"). A cada trabajador se le requerirá conducir con un cotejo de ajuste de su mascara ("fit check") antes de entrar al área de trabajo. Esto se hará cuantas veces sea necesario. El equipo de protección respiratoria se limpiará, se descontaminará y se probará diariamente. Solamente se utilizarán respiradores aprobados por (NIOSH) y (MSHA). Además, de la protección respiratoria, los trabajadores usarán gafas de seguridad, guantes de goma y ropa desechable que cubra todo el cuerpo. La ropa desechable, incluyendo los guantes y filtros de los respiradores, serán descartada como material que contiene asbesto (ACM) para mayor seguridad. El equipo de seguridad restante será descontaminado en las duchas que estarán en el área de descontaminación.

A continuación se presenta la tabla donde se explica cual será la protección respiratoria asignada a los trabajadores de acuerdo a la concentración de partículas de asbesto en el aire.

Cada vez que se utilice un respirador se deberá establecer un programa para el uso de los mismos, según lo indicado en el 29 CFR 1910.134

El visto bueno para la recuperación final del área se dará cuando la muestra final del aire tomada ("clerance"), después de concluir los trabajos, resulte en una concentración de fibras de asbesto de 0.005f/cc (fibras por centímetro cúbico) o menos, según lo recomendado por las Regulaciones.

NIVELES DE PROTECCIÓN RESPIRATORIA

NIVEL	*CONCENTRACIÓN DE ASBESTO EN EL AIRE*	*RESPIRADOR REQUERIDO*
1	No más de 1 f/cc (o sea 10 veces el PEL)	Media mascarilla tipo purificador aire con filtros de alta eficiencia
2	No más de 5 f/cc (o sea 50 veces el PEL)	Respirador tipo purificador de aire que cubra todo el rostro con filtros de alta eficiencia.
3	No más de 10 f/cc (o sea 100 veces el PEL)	1. Cualquier respirador purificador de aire motorizado equipo de filtros de alta eficiencia. 2. Cualquier respirador del tipo presión positiva (suministrado de aire) operado en flujo continuo.
4	No más de 100 f/cc (o sea 1000 veces el PEL)	Respirador de suministro de aire y que cubra todo el rostro operado en demanda de presión.
5	Más de 100 f/cc (más de 1000 veces el PEL) o cuanto se desconoce la concentración.	Respirador de suministro de aire que cubra todo el rostro operado en demanda de presión positiva y aire auto -contenido.

Cada vez que se utilice un respirador se deberá establecer un programa para el uso de los mismos, según lo indicado en el 29 CFR 1910.134

[1]Referencia de OSHA 29 CFR 1926.1101
NOTA: PEL significa nivel de exposición permitido, de las siglas en inglés "Permissible Exposure Limit" establecido por OSHA. El PEL de asbestos es 0.1 f/cc.

D. PROCEDIMIENTO PARA LA REMOCIÓN DE ASBESTO

Se deberá notificar por escrito a la Agencia Federal de Protección Ambiental (EPA) diez (10) días antes de comenzar los trabajos de remoción. Para iniciar los trabajos de preparación del área, se tomaran muestras de "Back-ground" para determinar el nivel de exposición del área.

El paso siguiente será instalar barreras de polietileno reforzado creando un perímetro de cuatro altas paredes dejando el techo abierto para así mantener todas las tuberías dentro de este perímetro para su remoción. En adición, prevenir que el aire pueda ganar acceso a las áreas a fin de que haya control de las áreas de trabajo dentro de perímetro cerrado en todo momento y manteniendo cerrado alrededor de cada rack de tuberías donde se estará removiendo toda la insulación controlando el aire y las fibras generadas en todo momento. Las planchas de asbesto cemento se removerán "open air"

Antes de comenzar las actividades de remoción se establecerán tres (3) áreas de control de acceso al encerramiento:

- Área de Trabajo

Todo trabajo de remoción se llevará a cabo en esta área. El personal que entre a esta área usará todo el equipo de protección y deberán estar certificados para el manejo del MCA. Toda entrada y salida de esta área se hará a través del área de descontaminación.

- Área de descontaminación

El personal, equipo y herramientas que salga del área de trabajo pasaran por el área de descontaminación. Para este proceso se instalaran duchas equipadas con un sistema para la recolección y filtración de las aguas servidas (8 "micro filtres) generadas en el proceso de remoción y descontaminación.

- Área Limpia

Esta área sirve de acceso al área de descontaminación. Es en el área limpia donde los trabajadores se cambiaran sus ropas domesticas y se pondrán la ropa y equipo de protección (incluyen los respiradores). Esta área tendrá un lugar designado a equipo para almacenar los artículos personales incluyendo la ropa doméstica de los trabajadores. Además, es también en este lugar donde se

mantendrán los equipos, materiales, ropa desechable de protección y otros artículos limpios y sin usar para ser provistos inmediatamente de ser necesario.

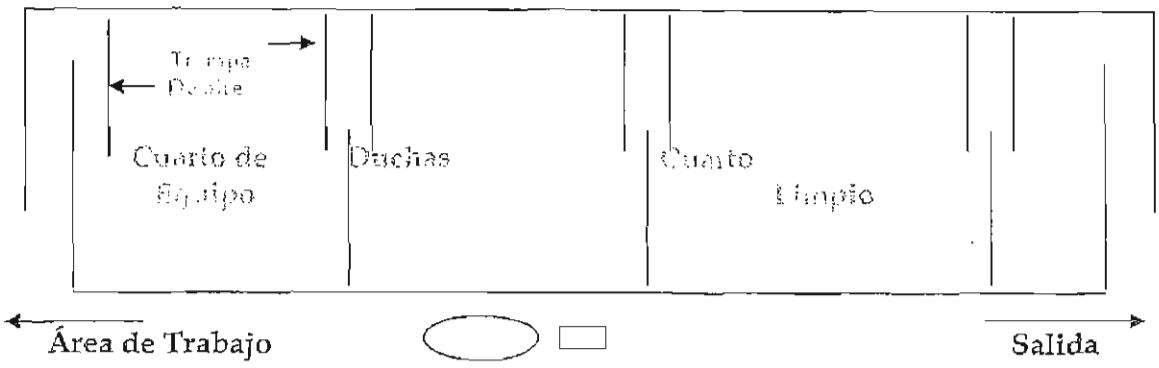
Antes de comenzar con los trabajos de remoción, las áreas circundantes al proyecto se rotularán advirtiendo a cualquier persona que por alguna razón ganará acceso a las áreas sobre los trabajos de remoción de asbesto que allí se estarán realizando. Los rótulos se localizarán en lugares conspicuos a través de los cuales se pueda ganar acceso al área del proyecto. Los rótulos a utilizarse serán de acuerdo a los especificados en el Código Federal 29 CFR 1926.1101 (k) (6) (ii).

PELIGRO
ASBESTO
RIESGO DE CANCER Y ENFERMEDAD PULMONAR

Personal Autorizado Solamente

SE REQUIERE RESPIRADORES Y EQUIPO DE PROTECCIÓN PERSONAL EN ESTA AREA.

Modelo Típico de Sistema de Descontaminación



Sistema de Filtración

E. REQUERIMIENTO DE AISLAMIENTO DEL AREA DE TRABAJO

El área de trabajo se cubrirá con polietileno de 6 mil o mayor. Esto incluye barreras críticas en todas y cada una de las salidas de aire, utilizando pegamento y cinta adhesiva en todos los bordes. Se proveerá un solo acceso para entrar y salir del área de trabajo y de descontaminación.

Luego de encerrada el perímetro del área de trabajo, se instalara un sistema de ventilación que ayudara a mantener las fibras controladas en la zona de trabajo y áreas fueras de la misma. El equipo de presión negativa a utilizarse estará provisto con un filtro (HEPA). Este equipo tendrá una capacidad de mover al menos 2000 pies cúbicos de aire por minuto con tres etapas de filtro. El filtro principal (HEPA) tendrá un 99.97% de eficiencia en partículas de hasta 0.3 micrones. Este equipo sacará el aire filtrado al exterior del perímetro cerrado.

El sistema de ventilación funcionará durante el proceso de remoción, mientras dure el proyecto. Esto incluye el periodo de limpieza o descontaminación final hasta que las muestras de aire no excedan los límites permitidos de fibras de asbesto de 0.005f/cc.

F. REMOCIÓN DE ASBESTOS

La remoción de insulación y planchas de asbestos cemento se removerá de acuerdo a las regulaciones y exigencias de las agencias reguladoras, (EPA, OSHA, JCA). El material se removerá manualmente y después de ser removido será empacado en doble bolsa 6 milésimas, especialmente rotuladas para asbesto y será removido del área diariamente hacia el contenedor de almacenamiento. El material se removerá húmedo. Se asegurarán las paredes de polietileno de tal manera que no se desprenderán durante la remoción. El área en todo momento se mantendrá limpia y recogida del material ya removido, utilizando equipos de succión equipados con filtros HEPA. También se colocarán diques en las áreas para asegurar que el agua no se filtre hacia el exterior. El agua colectada será filtrada adecuadamente y se dispondrá a través del sistema de alcantarillado sanitario.

G. DESCONTAMINACIÓN DEL ÁREA DE TRABAJO

Luego de finalizado el trabajo de remoción del área de trabajo así como el área de descontaminación será limpiadas y descontaminadas. Los paños y demás utensilios desechables utilizados en la descontaminación y limpieza de todas las áreas serán depositados en bolsas rotuladas para empacar los desperdicios de (ACM). Sé removerán del área de trabajo todos los equipos y herramientas utilizadas en la operación. Dichos equipos y herramientas pasaran por el proceso de descontaminación antes de abandonar el área de trabajo. Luego de despejar y limpiar toda el área, esta se inspeccionará visualmente. Se seguirán los criterios de inspección que se muestran en la lista de cotejo incluido. Después de verificar la limpieza del área, se procederá a realizar un muestreo de aire para cumplir con los niveles de limpieza requeridos por las regulaciones de 0.005 f/cc. En el caso de que este parámetro no se cumpla, se procederá nuevamente a limpiar el área y se mostrara otra vez. El sistema de presión negativa se deberá mantener en operación hasta tanto se cumpla con el nivel de limpieza.

H. REQUERIMIENTO DE TRANSPORTACIÓN DEL ASBESTO

Se cumplirá con el reglamento del Departamento de Transportación Federal (DOT) y con el de Junta de Calidad Ambiental (JCA) para la transportación de los desperdicios generados en el proyecto hasta las facilidades de disposición final. El material de asbesto removido y generado se dispondrá en un vertedero autorizado por la Agencia Federal de Protección Ambiental (EPA por sus siglas en ingles) y la Junta de Calidad Ambiental (JCA) para estos fines.

Una vez el camión que contiene el desperdicio de asbesto arribe al vertedero, el chofer debe aproximarse a la localidad de desperdicio lo más cercano posible para descargar el material. Las bolsas empacadas se sacaran del camión y serán inspeccionadas a medida que se vayan descargando. En la eventualidad de que una bolsa empacada se haya roto o maltratado, el material será reempacado apropiadamente.

Las bolsas empacadas serán colocadas en el piso del lugar de disposición, no empujadas o tiradas del camión, ya que el peso del material mojado puede romper las mismas. El personal de descargue habrá de usar equipo protector apropiado que incluye ropa protectora desechable de cabeza, cuerpo y pies. También protección respiratoria mínima debe incluir el uso de respiradores de medio rostro equipados con filtros de alta eficiencia para partículas (HEPA).
Después de completado la remoción de todo el desperdicio, el área de carga del camión sea descontaminada usando aspiradoras (HEPA) y/o métodos húmedos de acuerdo con las regulaciones de (OSHA) y (EPA). Los paños de polietileno serán removidos y descartados junto con el material de limpieza contaminado y la ropa protectora en otras bolsas en el lugar de disposición.

Las bolsas o paquetes serán colocados, intactas en un área excavada y cubierta con un mínimo de seis (6) pulgadas de tierra limpia.

EMSL Analytical, Inc.
307 West 38th Street, New York, NY 10018
Phone: (212) 290-0051 Fax: (212) 290-0058 Email: manhattanlab@emsl.com

Attn: **Homeca Recycling Center,Inc.**
1508 Paseo Fagot URB Jardines
Ponce, PR 00716

Fax: (787) 984-0059 Phone: (787) 984-0029
Project: **090921**

Customer ID: HRCI62
Customer PO: HRC933
Received: 09/28/09 9:26 AM
EMSL Order: 030924791
EMSL Proj:
Analysis Date: 9/28/2009

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
BC1	TSI CHIMNEY	Brown/White		45% Ca Carbonate	5% **Amosite**
030924791-0001		Fibrous Homogeneous		15% Non-fibrous (other)	35% **Chrysotile**
BC2	TSI CHIMNEY	Gray/White		40% Ca Carbonate	5% **Amosite**
030924791-0002		Fibrous Homogeneous		15% Non-fibrous (other)	40% **Chrysotile**
BC3	TSI CHIMNEY	Brown/Gray		47% Non-fibrous (other)	50% **Amosite**
030924791-0003		Fibrous Homogeneous			3% **Chrysotile**

Analyst(s)

Alexander Balter (3)

James Hall, Laboratory Manager
or other approved signatory

Due to magnification limitations inherent in PLM, asbestos fibers in dimensions below the resolution capability of PLM may not be detected. The limit of detection as stated in the method is 1%. The above test report relates only to the items tested and may not be reproduced in any form without the express written approval of EMSL Analytical, Inc. EMSL's liability is limited to the cost of analysis. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government.

Samples analyzed by EMSL Analytical, Inc. New York 307 West 38th Street, New York NY NVLAP Lab Code 101048-9, AIHA IHLAP 102581, NYS ELAP 11506, CT PH-0170, MA AA000170

THIS IS THE LAST PAGE OF THE REPORT.

EMSL Analytical, Inc.
200 Route 130 North, Cinnaminson, NJ 08077
Phone: (800) 220-3675 Fax: (856) 786-5974 Email: westmontasblab@EMSL.com

Attn: **Luzdellys Echevarria**
Homeca Recycling Center,Inc.
1508 Paseo Fagot URB Jardines
Ponce, PR 00716

Fax: (787) 984-0059 Phone: (787) 984-0029
Project: **P1003**

Customer ID: HRCI62
Customer PO: HRC1338
Received: 03/24/11 11:05 PM
EMSL Order: 041106827

EMSL Proj:
Analysis Date: 3/24/2011

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos			Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**		**% Non-Fibrous**	**% Type**
A-5 *041106827-0001*	- ISOLATION MATERIAL	Gray Fibrous Homogeneous	40%	Cellulose	20% Non-fibrous (other)	**10% Chrysotile** **30% Amosite**

Initial report from 03/25/2011 07:44:45

Analyst(s)

Michael Thoma (1)

Stephen Siegel, CIH, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to the cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval or endorsement by NVLAP, NIST or any agency of the federal government. The test results contained within this report meet the requirements of NELAC unless otherwise specified. Samples received in good condition unless otherwise noted.
Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036

THIS IS THE LAST PAGE OF THE REPORT.

iATL INTERNATIONAL
ASBESTOS TESTING LABORATORIES

9000 Commerce Parkway, Ste B
Mount Laurel, NJ 08054
Toll Free 877-428-4285
Local: 856-231-9449
Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Altol Environmental Services, Inc.
PO Box 359
Mercedita PR 00715

Report Date: 7/10/2013
Report No: 309609
Project: Homeca Recycling
Project No.: ENJ-341

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 5059311 **Description / Location:** White Insulation
Client No.: PC-BS-01

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
50	Chrysotile	None Detected	None Detected	50

Accreditation **NIST-NVLAP No. 101165-0** **NY-DOH No. 11021** **AIHA-LAP, LLC No. 100188**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA or any agency of the U.S. government
This report shall not be reproduced except in full, without written approval of the laboratory.

Analytical Method: EPA 600/R-93/116, by Polarized Light Microscopy

Comments: Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

Analysis Performed By: L. Price

Approved By: Frank E. Ehrenfeld, III
Laboratory Director

Date: 7/10/2013

HOMECA RECYCLING
Environmental and Demolition Services

Plan de Trabajo para Remocibn y Disposición de Materiales con Contenido de Asbestos (ACM)

Proyecto:

Desmantelarniento Antiguas Facilidades Olefins
Peiiuelas, Puerto Rico

Preparado por:

Homeca Recycling Center Co, Inc
PO BOX 231
Mercedita, PR 00715

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Tabla de Contenido

A. Informacibn sobre el proyecto

B. Descripcidn de los trabajos

C. Equipo de proteccidn personal requerido

D. Procedimientos para la remoción de Asbestos

- Área de Trabajo
- Área de descontaminacibn

  Área limpia

E. Requerimientos de aislamientos del área de trabajo

F. Descripcidn de remocidn de Materiales con contenido de ACM Thermal System insulation (TSI) and asbesto cemento (Transite panel)

G. Descontaminación del área de trabajo

H. Requisitos de transportación y disposición final de los desprecios y Asbestos asbesto

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A. INFORMACIÓN SOBRE EL PROYECTO

Proyecto	Desmantelamiento de la Antigua Planta Olefins
Ubicación del Proyecto:	Tallaboa Industrial Park Carr. 385 h 5 . 4 Bo. Tallaboa Poniente, Peñuelas PR 00624
Descripción del Proyecto	Remoción de materides con contenido de **asbestos**
Fecha de Comienzo & Terminación	Hacer referencia al permiso aprobado
Duración del trabajo	12 meses (I año)
Dueño del Proyecto	Pro-Caribe Contacto: Lic. Ramón González Simounet Tel. (787) 836-2026
Contratista General	Homeca Recycling Center, Inc.
Información Contratista General	**Dirección** Postal: 1575 Ave. Munoz Rivera PMB 120 Ponce, PR 00717-0211 **Dirección Física:** Calle Salmón # **1** Playa **de** Ponce Ponce, PR 00731 Tel. 787- 689-6150 Fax: 1-800-491-1218
Facilidad de Disposición de Desperdicios	Relleno Sanitario Ponce Republic Waste Cervices **Dirección Física** Bo. La Cotorra Ave. Baramaya **Find** Ponce, PR 0031 **Dirección** Postal PO Box 7104 Poncc, PR 00732-7104 Contacto: Sra. Wanda Valenzuela Tel. (787) 841-7775 Permiso: IDF-58-0008

Transportista de Desperdicios	Envirorecycling 1508 Paseo Fagot Suite 3 Ponce, PR 00716 Tel. 787-458-3736 Contacto: Jose Velez	Enviromental & Transport 1575 Ave. Munoz Rivera PMB 372 Ponce, PR 0071 Tel. 787-813-0004 Contacto: Jayline Correa
Persona que preparó **el** Plan **de** Trabajo	**Carlos** E. Ocasio Certificación: ASS-1012-0579-PD Vence: **24** sept 2013	
Persona Responsable **del Proyecto**	Carlos O. Sánchez Delgado *Dirección* ***Física:*** Bo. Certenejas II Carr. 172 Km 7.5 Interior Cidra, PR 00739 Dirección **Postal:** P O BOX 231 Mercedita, PR 00715 Tel. (787) 841-2223 / (787) 380-2912	
Compañía a *Cargo* Monitoreo **de** Aire	1. Altol Environmental PO Box 359 Mercedita, PR 00715 Tel 787-835-4242 Fax 787-835-2004	
Facilidad de Laboratorio	En caso de ser necesario se estará utilizando el laboratorio EMSL Analytical	
Cantidad de ACM a Manejarse	800 yardas cúbicas aproximadamente	

B. DESCRIPCION DE LOS TRABAJOS

Objetivo y Alcance del Trabajo

El objetivo de este plan de trabajo es describir el procedimiento de remoción y disposición de material con contenido de Asbesto. El provecto consiste de la remoción de materides con contenido de asbestos (ACM) en la Antigua Planta Olefins localizado en el pueblo de Penuelas PR. El trabajo incluye la remoción de 800 pies lineales de"TSI" insulación termal y unos 80 pies cuadrados de "Transite" planchas de asbesto cemento. La insulación termal y las planchas de asbesto cemenio se encuentra ubicado alrededor de la planta. La insulación se encuentra en diferentes diámetros y es utilizada como un aislante en las tuberías de la planta. El "transite" se utilizó para techar las áreas donde se encontraban los paneles de control de la planta.

Métodos

Se removerá utilizando herramientas manuales para los diferentes materiales, humedeciendo con agua enmendada. Una vez el material haya sido removido, se utilizarán los sistemas de recogido y descontaminación de los diferentes materides según la regulación para este tipo de trabajo. Se removerán materiales no desmenuzables y desmenuzables de las diferentes áreas. El material a removerse es aproximadamente de 550 yardas cúbicas de material.

Los siguientes pasos son aplicables al proyecto:

Se manejará el asbesto en estricto acuerdo con las regulaciones estatales y federales y cualquier agencia gubernamental que pueda tener jurisdicción.

El personal contratado en la remoción o limpieza utilizará el equipo de seguridad necesario en todo momento que esté en el área restringida o área de trabajo.

Se establecerán dreas restringidas de trabajo utilizando cinta barricada de advertencia para evitar que personas ajenas tenga acceso al mismo. Se utilizará también carteles de advertencia según descrito en la reglamentación.

El comer, beber y/o fumar dentro del área de trabajo estará prohibido para todo el personal.

Sr someterá un plan de trabajo para la mitigación de asbesto a la Junta de Calidad Ambiental para así obtener su aprobación.

Todo trabajo será en es'aicto cumplimiento a este plan de trabajo

Solo serán asignados al proyecto personal debidamente entrenado y certificado ante la JCA para estos trabajos de asbestos. Se mantendrá un supervisor o persona competente en el área de trabajo en todo momento.

Se contratarán los servicios de un laboratorio certificado para las muestras de (aire) que se llevaran a cabo antes, durante y al finalizar para controlar el nivel de exposición de los empleados y limpieza final.

C. EQUIPO DE PROTECCIÓN REQUERIDA

El personal que realiia los trabajos de remoción de asbesto usará equipos de protección de las vias respiratorias, protección para los ojos y ropa para protección epidémica apropiadas para trabajar en condiciones adecuadas.

Los equipos de protección respllatoria a utilizarse estarán de acuerdo con los requisitos descritos en el Código Federal 29 CFR 1926.1101. Luego del monitoreo inicial de aire se procederá a asignar protección respiratoria de acuerdo a la concentración de particulas de asbesto en el aire utilizado la tabla adjunta. Esto será para el personal que este manejando las bolsas con el desperdicio conteniendo material con asbesto. Los respiradores tanto de presión negativa o positiva que se utilizan en el proyecto estarán provisios con cartuchos de combinación con filtros para vapores orgánicos y de alta eficiencia (HEPA) para particulas.

A cada 'aabajador se le asignará un respirador para el uso exclusivo de este. No se permitirá el intercambio de respiradores entre los trabajadores. Quedará terminantemente prohibido el uso de respiradores desechables o de mascaras con'aa polvo ("dust. masks"). A cada 'aabajador se le requerirá conducir con un cotejo de ajuste de su mascara ("fit check") antes de entrar al área de trabajo. Esto se hará cuantas veces sea necesario. El equipo de protección respiratoria se limpiará, se descontaminará y se probará diariamente. Solamente se utilizarán respiradores aprobados por (NIOSH) y (MSHA). Además, de la protección respiatoria, los trabajadores usarán gafas de seguridad, guantes de goma y ropa desechable que cubra todo el cuerpo. La ropa desechable, incluyendo los guantes y filtros de los respiradores, serán descartada como material que contiene asbesto (ACM) para mayor seguridad. El equipo de seguridad restante será descontaminado en las duchas que estarán en el área de descontaminación.

A continuación se presenta la tabla donde se explica cual sera la protección respiratoria asignada a los trabajadores de acuerdo a la concentración de partículas de asbesto en el aire.

Cada vez que se utilice un respirador se deberá establecer un programa para el uso de los mismos, según lo indicado en el 29 CFR 1910.134

El visto bueno para la recuperación final del área se dará cuando la muestra final del aire tomada ("clerance"), después de concluir los tiabajos, resulte en una concentración de fibras de asbesto de 0.005f/cc (fibras por centímetro cúbico) o menos, según lo recomendado por las Regulaciones.

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NIVELES DE PROTECCIÓN RESPIRATORIA

NIVEL	*CONCENTRACIÓN DE ASBESTO EN EL AIRE*	*RESPIRADOR REQUERIDO*
1	No más de 1 f/cc (o sea 10 veces **el** PEL)	Media mascarilla tipo purificador aire con filtros de alta eficiencia
	No más de 5 f/cc (o sea 50 veces el PEL)	Respirador tipo purificador de aire que cubra todo el rostro con filtros de alta eficiencia.
	No más de 10 f/cc (o sea 100 veces el PEL)	1. Cualquier respirador purificador de aire motorizado equipo de filtros de alta eficiencia. 2. Cualquier respirador del tipo presión positiva (suministrado de aire) operado en flujo continuo.
	No más de 100 f/cc (o sea 1000 veces el PEL)	Respirador de suministro de aire y que cubra todo el rosho operado en demanda de presión.
	Más de 100 f/cc (más de 1000 veces el PEL) o cuanto se desconoce la concentración.	Respirador de suministro de aire que cubra todo el rostro operado en demanda de presión positiva y aire auto -contenido.

Cada vez que se utilice un respirador se deberá establecer un programa para el uso de los mismos, según lo indicado en el 29 CFR 1910.134

[1]Referencia **de OSHA 29** CFR **1926.1101**
NOTA: PEL significa nivel ***de*** exposición permitido, de las siglas en inglés "Permissible **Exposure** Limit" establecido **par** OSHA. El PEL de asbestos es **01** f/cc.

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D. PROCEDIMIENTO PARA LA REMOCIÓN DE ASBESTO

Se deberá notificar por escrito a la Agencia Federal de Protección Ambiental (EPA) diez (10) días antes de comenzar los trabajos de remoción. Para iniciar los trabajos de preparación del área, se tomaran muestras de "Back-ground" para determinar el nivel de exposición del área.

El paso siguiente sera instalar barreras de polietileno reforzado creando un perímetro de cuatro altas paredes dejando el techo abierto pa-a así mantener todas las tuberías dentro de este perímetro para su remoción. En adición, prevenir que el aire pueda ganar acceso a las áreas a fin de que haya control de las áreas de trabajo dentro de perímetro cerrado en todo momento y manteniendo cerrado alrededor de cada rack de tuberías donde se estará removiendo toda la insulación controlando el aire y las fibras generadas en todo momento. Las planchas de asbesto cemento se removerán "open air"

Antes de comenzar las actividades de remoción se establecerán tres ***(3)*** áreas de control de acceso al encerramiento:

- Área de Trabajo

Todo trabajo de remoción se llevará a c a b en esta área. El personal que entre a esta área usará todo el equipo de protección y deberán estar certificados para el manejo del MCA. Toda entrada y salida de esta area se hará a través del área de descontaminación.

- Área de descontaminación

El personal, equipo y herramientas que salga del area de trabajo pasaran por el área de descontaminación. Para este proceso se instalaran duchas equipadas con un sistema **para** la recolección y filtración de las aguas servidas (S "micro filtres) generadas en el proceso de remoción y descontaminación.

- Área Limpia

Esta área sirve de acceso al área de descontaminación. Es en el área limpia donde los trabajadores sc cambiaran sus ropas domesticas y se pondrán la ropa y equipo de protección (incluyen los respiradores). Esta área tendrá un lugar designado a equipo para almacenar los artículos personales incluyendo la ropa doméstica de los trabajadores. Además, es también en este lugar donde se

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mantendrán los equipos, materiales, ropa desechable de protección y otros artículos limpios y sin usar para ser provistos inmediatamente de ser necesario.

Antes de comenzar con los 'aabajos de remoción, las áreas circundantes al proyecto se rotularán advirtiendo a cualquier persona que por alguna razón ganará acceso a las áreas sobre los 'aabajos de remoción de asbesto que alli se estarán realizando. Los rótulos se localizarán en lugares conspicuos a través de los cuales se pueda p a r acceso al área del proyecto. Los rótulos a utilizarse serán de acuerdo a los especificados en el Código Federal 29 CFR 1926.1101 (k) (6) (ii).

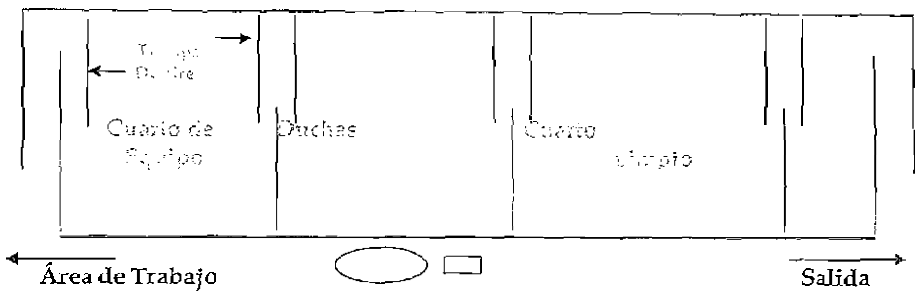
PELIGRO
ASBESTO
RIESGO DE CANCER Y ENFERMEDAD PULMONAR

Personal Autorizado Solamente

SE REQUIERE RESPIRADORES Y EQUIPO DE PROTECCIÓN PERSONAL EN ESTA AREA.

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Modelo Típico de Sistema de Descontaminación



Sistema de Filtración

E. REQUERIMIENTO DE AISLAMIENTO DEL AREA DE TRABAJO

El área de trabajo se cubrirá con polietileno de 6 **mil** o mayor. Esto incluye barreras críticas en todas y cada una de las salidas de aire, utilizando pegamento y cinta adhesiva en todos los bordes. Se proveerá un solo acceso para entrar y salir del área de trabajo y de descontaminación.

Luego de encerrada el perímetro del área de habajo, se instalara un sistema de ventilación que ayudara a mantener las fibras controladas en la zona de trabajo y areas fueras de la misma. El equipo de presión negativa a utilizarse estará provisto con un filtro (HEPA). Este equipo tendrá una copacidad de mover al menos 2000 pies cúbicos de aire por minuto con tres etapas de filtro. El filtro principal (HEPA) tendra un 99.97% de eficiencia en partículas de hasta 0.3 micrones. Este equipo sacará el aire filtrado al exterior del perimetro cerrado.

El sistema de ventilación funcionará durante el proceso de remoción, mientras dure el proyecto. Esto incluye el periodo de limpieza o descontaminación final hasta que las muestras de aire no excedan los límites permitidos de fibras de asbesto de 0.005f/cc.

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F. REMOCION DE ASBESTOS

La remoción de insulación y planchas de asbestos cemento se removeri de acuerdo a las regulaciones y exigencias de las agencias reguladoras, (EPA, OSHA, JCA). El material se removerá manualmente y después de ser removido será empacado en doble bolsa 6 milésimas, especialmente rotuladas para asbesto y será removido del área diariamente hacia el contenedor de almacenamiento. El material se removerá húmedo. Se asegurarán las paredes de polietileno de tal manera que no se desprenderán durante la remoción. El área en todo momento se mantendrá limpia y recogida del material ya removido, utilizando equipos de succión equipados con filtros HEPA. También se colocarán diques en las áreas para asegurar que el agua no se filtre hacia el exterior. El agua colectada será filtrada adecuadamente y se dispondra a través del sistema de alcantarillado sanitario.

G. DESCONTAMINACIÓN DEL ÁREA DE TRABAJO

Luego de finalizado el trabajo de remoción del área de trabajo así como el área de descontaminación será limpiadas y descontaminadas. Los paños y demás utensilios desechables utilizados en la descontaminación y limpieza de todas las áreas serán depositados en bolsas rotuladas para empacar los desperdicios dc (ACM). Sé removerán del área de trabajo todos los equipos y herramientas utilizadas en la operacibn. Dichos equipos y herramientas pasaran por el proceso de descontaminación antes de abandonar el área de trabajo. Luego de despejar y limpiar toda el área, esta se inspeccionará visualmente. Se seguirán los critarios de inspección que se muestran en la lista de cotejo incluido. Después de verificar la limpieza del área, se procedera a realizar un muestreo de aire pa-a cumplir con los niveles de limpieza requeridos por las regulaciones de 0.005 f/cc. En el caso de que este parámetro no se cumpla, se procederá nuevarnente a lunpiar el área y se mostrara otra vez. El sistema de presión negativa se deberá mantener en operación hasta tanto se cumpla con el nivel de limpieza.

H. REQUERIMIENTO DE TRANSPORTACIÓN DEL ASBESTO

Se cumplirá con el reglamento del Departamento de Transportación Federal (DOT) y con el de Junta de Calidad Ambiental (JCA) para la transportación de los desperdicios generados en el proyecto hasta las facilidades de disposición final. El material de asbesto removido y generado se dispondra en un vertedero autorizado por la Agencia Federal de Protección Ambiental (EPA por sus siglas en ingles) y la Junta de Calidad Ambiental (JCA) para estos fines.

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Una vez el camión que contiene el desperdicio de asbesto arribe al vertedero, el chofer debe aproximarse a la localidad de desperdicio lo más cercano posible para descargar el material. Las bolsas empacadas se sacaran del camión y serán inspeccionadas a medida que se vayan descargando. En la eventualidad de que una bolsa empacada se haya roto a maltratado, el material serl reempacado apropiadamente.

Las bolsas empacadas serán colocadas en el piso del lugar de disposición, no empujadas o tiradas del camión, ya que el peso del material mojado puede romper las mismas. El personal de descargue habrá de usar equipo protector apropiado que incluye ropa protectora desechable de cabeza, cuerpo y pies. También protección respiratoria minima debe incluir el uso de respiradores de medio rostro equipados con filtros de alta eficiencia para partículas (HEPA).
Después de completado la remoción de todo el desperdicio, el área de carga del camión see descontaminada usando aspiradoras (HEPA) y/o métodos húmedos de acuerdo con las regulaciones de (OSHA) y (EPA). Los paños de polietileno serán removidos y descartados junto con el material de limpieza contaminado y la ropa protectora en otras bolsas en el lugar de disposición.

Las bolsas o paquetes serán colocados, intactas en un área excavada y cubierta con un mínimo de seis (6) pulgadas de tierra limpia.

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CROQUIS DE LAS ESTRUCTURAS A DEMOLER

DESMANTELAMIENTO DE LA ANTIGUAS FACILIDADES DE PUERTO RICO OLEFINS

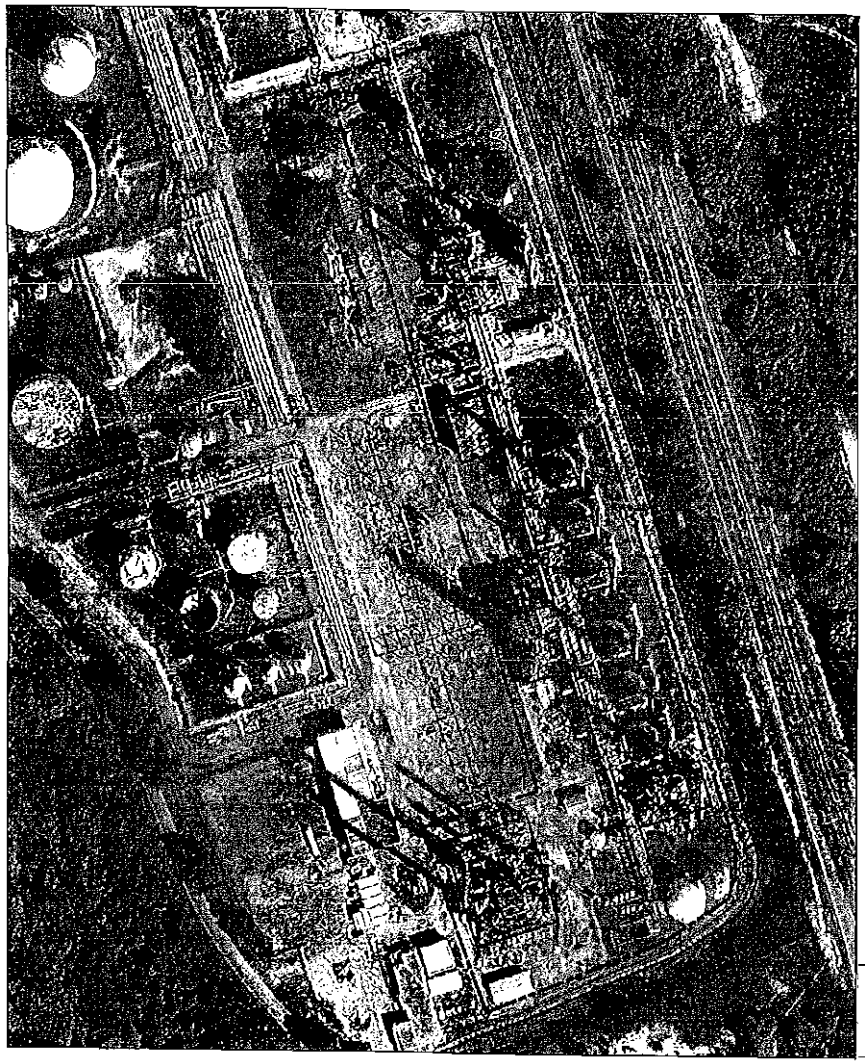
Tallaboa Industrial Park
Carr. 127 km 19.1
Sector El Pueblito
Bo. Tallaboa Poniente,
Peñuelas
Puerto Rico 00624

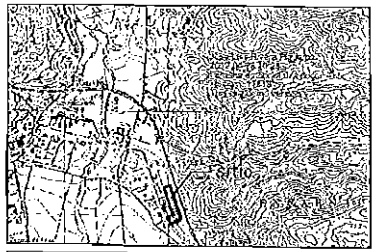
PROPIEDAD DE
TALLABOA INDUSTRIAL PARK

HOMECA RECYCLING CENTER
CO. INC.
PO Box 231, Mercedita
Puerto Rico 00715

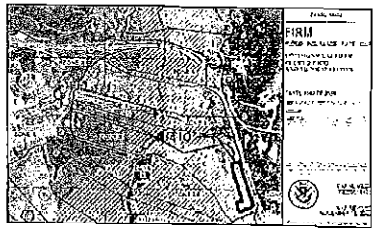
LEYENDA Y NOTAS:
ESTRUCTURA @ DESMANTELAR
LINEAS QUE DEMARCAN EL AREA APROXIMADA A SER IMPACTADA
NOTA: ÁREA @ DESMANTELAR = 95,441.3537 PC = 8,868.7919 MC

DATA





MAPA TOPOGRAFICO
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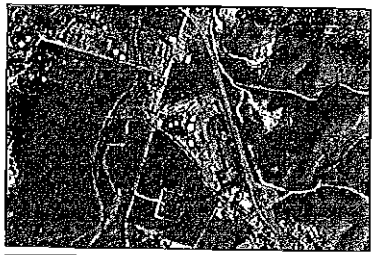
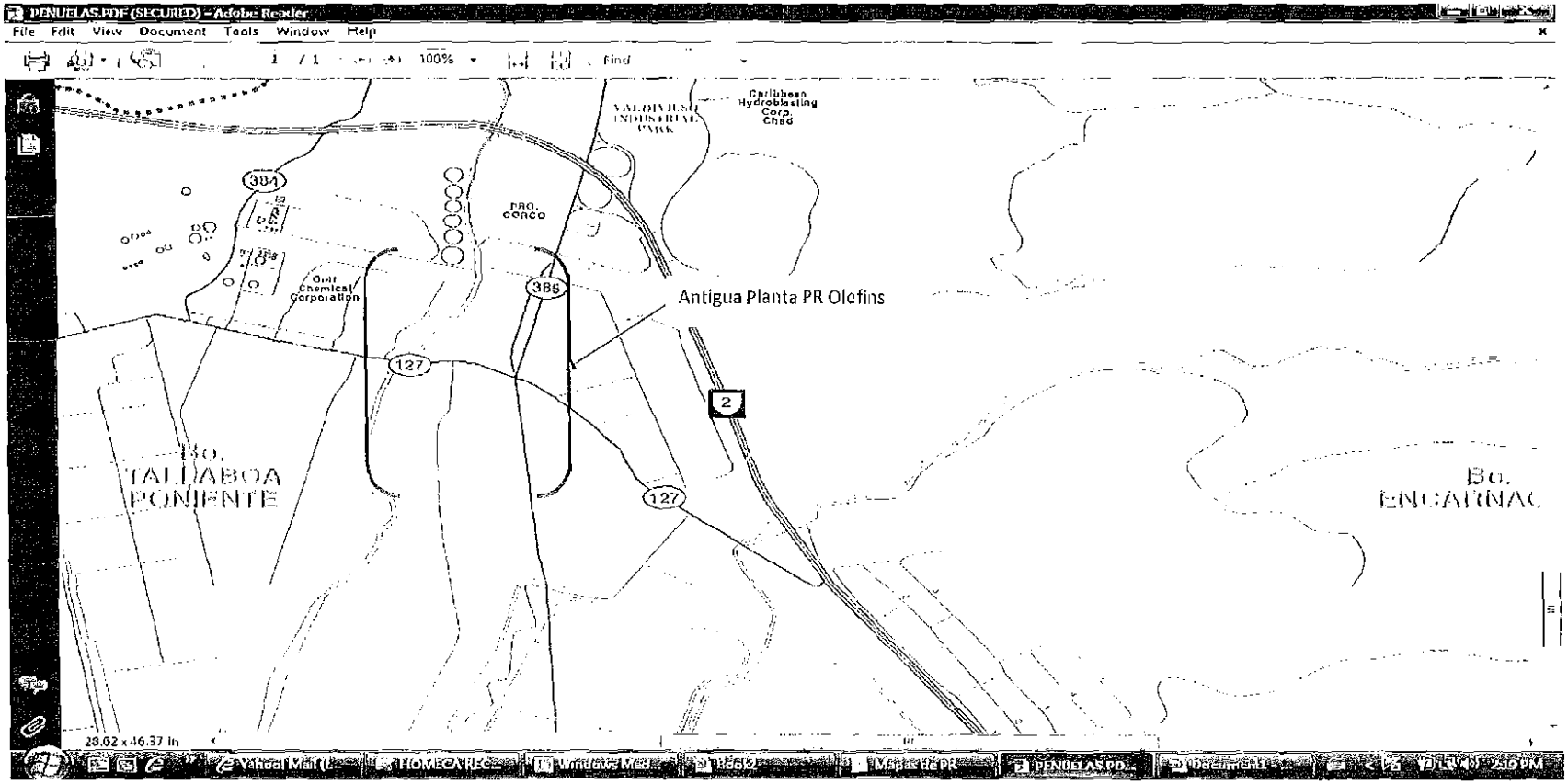


FOTO AEREA

DESCRIPCION:
MAPA TOPOGRÁFICO, MAPA DE FEMA, PLANO DE SITUACION Y TABLA DE MENSURA

S-1 1 1

000014



Homeca Recycling Center Co, Inc.

Plano de Localización

Proyecto:

Desmantelación Antiguas Facilidades PR Olefins.

Dirección

Bo. Tallaboa Poniente Carr. 385 Km. 5.4 Int. Carr 127 Km. 31.2 Peñuelas, PR

CONFIDENTIAL PRELIMINARY DRAFT

Page 00015639

RX 6

ETG
Environmental & Transport Group, Inc.

3 de diciembre de 2012

Sr. Eduardo Ramos Vera
Gerente General
Homeca Recycling Center, Inc.
1575 Ave. Muñoz Rivera
PMB 120
Ponce, PR 00717-0211

Re: **Acarreo de ACM**
Antiguas Facilidades PR Olefins
PR 127 KM 19.1 Tallaboa Poniente
Sector El Pueblito
Peñuelas PR 00624

Estimado Sr. Ramos.

La siguiente es para indicar que hemos aceptado su solicitud para acarrear el material con contenido de asbestos (aproximadamente 800 yardas cúbicas) que sea generado como parte de las labores de mitigación en el proyecto **Antiguas Facilidades PR Olefins**.

Nuesbo número de permiso para acarrear desperdicios sólidos No-Peligrosos es el SR-58-0710, adjunto copia del permiso.

Espero que esta informacibn le sea de utilidad

Cordialmente,

Lilram Bonet
Departamento Ambiental

000016

GOBIERNO DE PUERTO RICO
OFICINA DEL GOBERNADOR
JUNTA DE CALIDAD AMBIENTAL

PERMISO PARA OPERAR UN SERVICIO DE RECOLECCION O TRANSPORTACIÓN DE DESPERDICIOS NO PELIGROSOS

SECCIÓN I – INFORMACIÓN GENERAL

Nombre de la Empresa	:	Environmental & Transport Group , Inc.
Número de Permiso	:	SR-58-0710
Dirección Física		Edificio Legacy Office Park Suite 306, Cotto Laurel, Ponce
Dirección Postal		Ave. Muñoz Rivera 1575 PMB 372, Ponce, PR 00717
Nombre del Dueño	:	Sra. Jayline Correa
Número de Teléfono	:	787-813-5004/5005

SECCIÓN II – TIPO DE DESPERDICIOS AUTORIZADOS EN EL PERMISO PARA LA RECOLECCIÓN Y TRANSPORTACIÓN Y LUGAR DE DISPOSICIÓN FINAL.

Los residuos autorizados a recolectar o transportar son: metales ferrosos y no ferrosos, los cuales serán acarreados hasta la siguiente instalación: Homeca Recycling, Corp.

SECCIÓN III – DESCRIPCIÓN DE LOS VEHÍCULOS AUTORIZADOS EN EL PERMISO

Marca del Vehículo	Número de Serie	Año	Tablilla
Freightliner	1FUYDWEB2XLB03817	1999	RP-12204
Freightliner	1FUYDDYB8YLG94371	2000	RP-12205
Kenworth	1XKDD29X8VJ744145	1997	RP-11797
Freightliner	1FUJA3BD21PB36864	2001	RP-12223
Volvo	4V4VD4RH4YN233635	2000	RP_12211
International	2HSFEG2R9MC050191	1991	RP-34262

RX 6
CONFIDENTIAL
Page 86 of 1,639

8. Ninguna persona transportará desperdicios sólidos no peligrosos en forma tal que puedan derramarse o descargarse en una vía pública. Todos los vehículos que se usen para transportar desperdicios sólidos no peligrosos estarán disedados de forma tal que el desperdicio quede completamente encerrado y tapado.

9 Ninguna persona ocasionará o permitirá la recolección o transportación de desperdicios sólidos no peligrosos sin antes tomar todas las medidas para evitar fuegos, explosiones, olores objetables y atracción dr vectores, y evitar qut éstos resulten desagradables a la vista.

10. Ninguna persona ocasionará o permitirá la disposición de desperdicios sólidos no peligrosos en sitio alguno que no sea una instalación autorizada por la Junta ce Calidad Ambiental para manejar ese dpo de desperdicio mediante un permiso expedido de acuerdo al Reglamento antes mencionado.

11. Ninguna persona transportará desperdicios sólidos no peligrosos en forma tal que puedan derramarse o descargarse en una vía pública. Todos los vehículos que se usen para transportar desperdicios sólidos no peligrosos estarán diseñados de forma tal que el desperdicio quede completamente encerrado y tapado.

12 Ninguna persona ocasionará o permitirá la recolección o transportación de desperdicios sólidos no peligrosos sin antes tomar todas las medidas para evitar fuegos, explosiones, olores objetables y atracción de vectores, y evitar que éstos resulten desagradables a la vista.

13 Ninguna persona ocasionará o permitirá la disposición de desperdicios sólidos no peligrosos en sitio alguno que no sea una instalación autorizada poi la Junta de Calidad Ambiental para manejar ese apo de desperdicio mediante un permiso expedido de acuerdo al Reglamento antes mencionado.

14 Si la solicitud de renovación se somete sesenta (60) días o más antes de la fecha de expiración del permiso, el mismo continuará vigente hasta la fecha de emisión del nuevo permiso y el poseedor continuará cumpliendo con todas las condiciones del permiso existente

15. Deberá someter copia de la inspección de la Comisión de Servicio Público anualmente.

CONFIDENTIAL & PRIVILEGE

ENVIRORECYCLING, INC.

1 de octubre de 2012

Sr. Eduardo Ramos Vera
Gerente General
Homeca **Recycling Center,** Inc.
1575 Ave. Muñoz Rivera
PMB 120
Ponce, PR 00717-0211

Re: **Acarreo de** ACM
Antiguas Facilidades PR **Olefins**
PR 127 KM 19.1 **Tallaboa Poniente**
Sector El Pueblito
Peñuelas PR 00624

Estimado Sr. Ramos:

La siguiente es para indicar **que** hemos aceptado su solicitud para acarrear el material can contenido do asbestos (aproximadamente 500 yardas cúbicas) que sea generado como parte de las labores de mitigación en el proyecto **Antiguas Facilidades** PR **Olefins**.

Nuestro número de permiso para acarrear desperdicios sólidos No-Peligrosos es el SR-58-0457, adjunto copia del permiso.

Espero que esta información le sea de utilidad

Cordialmente,

José Vélez Olan

1508 PASEO FAGOT SUITE #3. PONCE, PR 00716
OFFICES: (787) 458-3736 · FACSIMILE (787) 848-1780

ALLIED WASTE SERVICES
A REPUBLIC SERVICES COMPANY

October 31,2012

Mr. Eduardo Ramos-Vera
Horneca Recycling, Inc.
1575 Avenida Muñoz Riven
PMB 120
Ponce, PR 00716-3611

RE: Asbestos Project
Project: Dismantle of Original Olefins Plant
Peñuelas. Puerto Rico

Dear Client:

The following is in reference to your request for transportation and/or disposal of your non-hazardous waste.

Allied Waste of Ponee. Inc. does not have any inconvenience to transport and/or dispose of the above referenced waste to our Ponce Landfill. The service will be subject to generator compliance with o w transportation and disposal policies and all State, Federal and Municipal requirements.

If you need any further information, please contact us at your convenience.

Cordially,

Allied Waste of Ponce, Inc.

Elizabeth Ocasio
SW Sales Coordinator

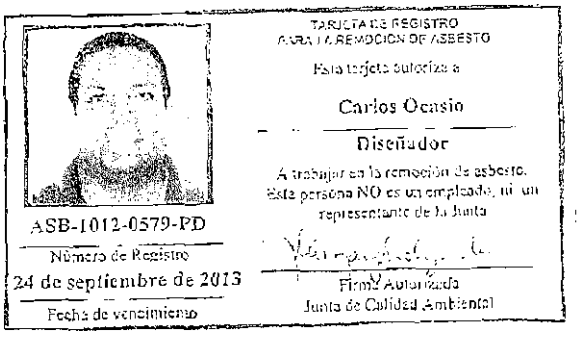
PO Box 7104
Ponce, PR 00732
787-841-7770 / FAX 787-841-1078
republicservices.com

30% post-consumer

ALTOL
Environmental Services, Inc.

PROFESSIONAL SCIENTISTS AND ENVIRONMENTAL CONSULTANTS

CERTIFIED ENVIRONMENTAL QUALITY BOARD ASBESTOS ABATEMENT PROJECT DESIGNER



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a

Carlos Ocasio

Diseñador

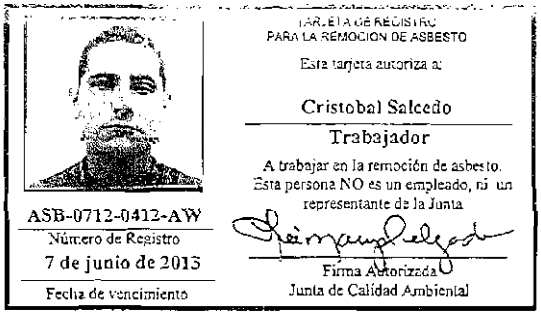
A trabajar en la remoción de asbesto. Esta persona NO es un empleado, ni un representante de la Junta

ASB-1012-0579-PD
Número de Registro

24 de septiembre de 2013
Fecha de vencimiento

Firma Autorizada
Junta de Calidad Ambiental

Parque Industrial Sabanetas ⁃ Edificio M-1380 ⁃ Ponce, PR 00715
Tel. (787) 835-4942 ⁃ Fax (787) 835-2004



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Cristobal Salcedo

Trabajador

A trabajar en la remoción de asbesto.
Esta persona NO es un empleado, ni un representante de la Junta

Firma Autorizada
Junta de Calidad Ambiental

ASB-0712-0412-AW
Número de Registro

7 de junio de 2013
Fecha de vencimiento



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Angel L. Figueroa

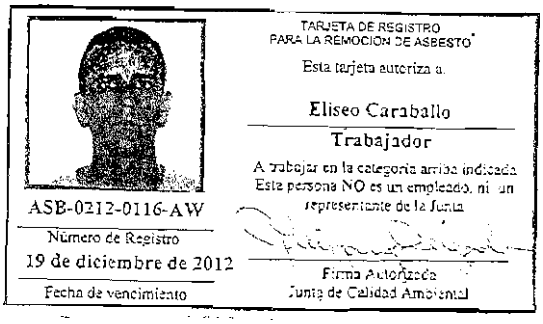
Trabajador

A trabajar en la remoción de asbesto.
Esta persona NO es un empleado, ni un representante de la Junta

Firma Autorizada
Junta de Calidad Ambiental

ASB-0712-0409-AW
Número de Registro

14 de junio de 2013
Fecha de vencimiento



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Eliseo Caraballo

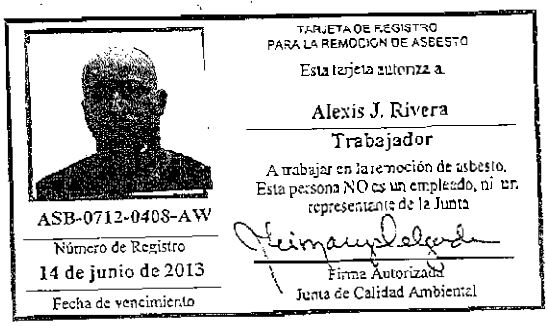
Trabajador

A trabajar en la categoria arriba indicada
Esta persona NO es un empleado, ni un representante de la Junta

Firma Autorizada
Junta de Calidad Ambiental

ASB-0212-0116-AW
Número de Registro

19 de diciembre de 2012
Fecha de vencimiento



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Alexis J. Rivera

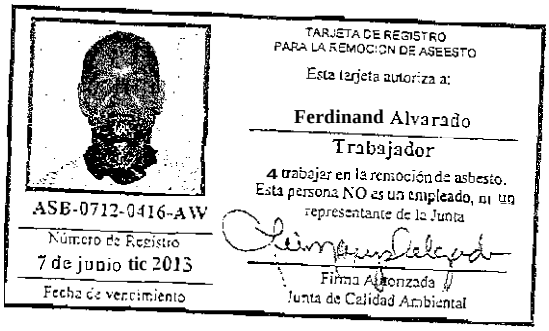
Trabajador

A trabajar en la remoción de asbesto.
Esta persona NO es un empleado, ni un representante de la Junta

Firma Autorizada
Junta de Calidad Ambiental

ASB-0712-0408-AW
Número de Registro

14 de junio de 2013
Fecha de vencimiento



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Ferdinand Alvarado

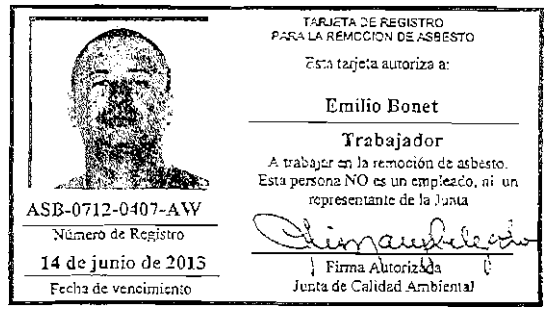
Trabajador

A trabajar en la remoción de asbesto.
Esta persona NO es un empleado, ni un representante de la Junta

Firma Autorizada
Junta de Calidad Ambiental

ASB-0712-0416-AW
Número de Registro

7 de junio de 2013
Fecha de vencimiento



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Emilio Bonet

Trabajador

A trabajar en la remoción de asbesto.
Esta persona NO es un empleado, ni un representante de la Junta

Firma Autorizada
Junta de Calidad Ambiental

ASB-0712-0407-AW
Número de Registro

14 de junio de 2013
Fecha de vencimiento



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a

Jose M. Miranda

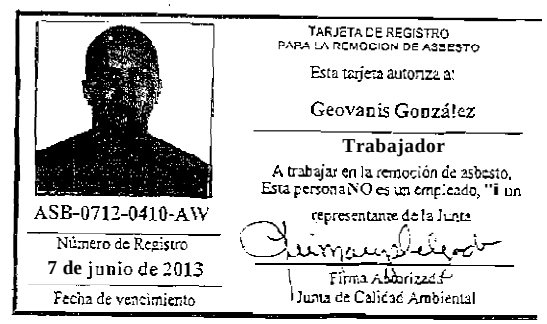
Trabajador

A trabajar en la remoción de asbesto.
Esta persona NO es un empleado, ni un representante de la Junta

Firma Autorizada
Junta de Calidad Ambiental

ASB-0712-0414-AW
Número de Registro

7 de junio de 2013
Fecha de vencimiento



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Geovanis González

Trabajador

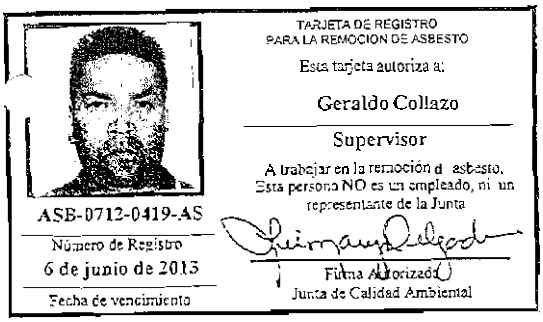
A trabajar en la remoción de asbesto.
Esta persona NO es un empleado, ni un representante de la Junta

Firma Autorizada
Junta de Calidad Ambiental

ASB-0712-0410-AW
Número de Registro

7 de junio de 2013
Fecha de vencimiento

000022



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Geraldo Collazo

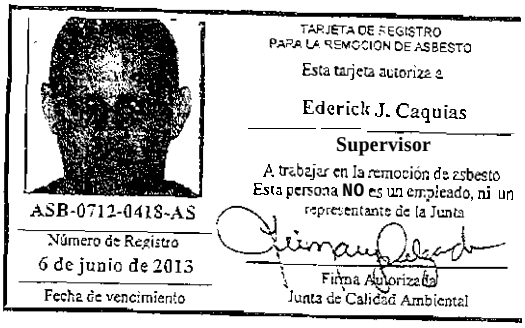
Supervisor

A trabajar en la remoción d asbesto.
Esta persona NO es un empleado, ni un representante de la Junta

Firma Autorizada
Junta de Calidad Ambiental

ASB-0712-0419-AS
Número de Registro

6 de junio de 2013
Fecha de vencimiento



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a

Ederick J. Caquias

Supervisor

A trabajar en la remoción de asbesto
Esta persona **NO** es un empleado, ni un representante de la Junta

Firma Autorizada
Junta de Calidad Ambiental

ASB-0712-0418-AS
Número de Registro

6 de junio de 2013
Fecha de vencimiento



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Melvin Feliciano

Supervisor

A trabajar en la remoción de asbesto.
Esta persona NO es un empleado, ni un representante de la Junta

Firma Autorizada
Junta de Calidad Ambiental

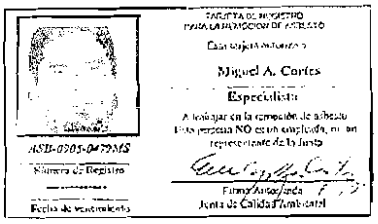
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Número de Registro

6 de junio de 2013
Fecha de vencimiento

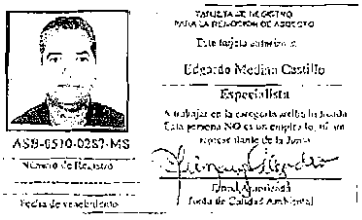
ALTOL
Environmental Services, Inc.

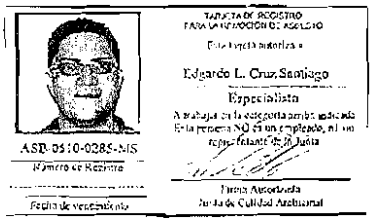
PROFESSIONAL SCIENTISTS AND ENVIRONMENTAL CONSULTANTS

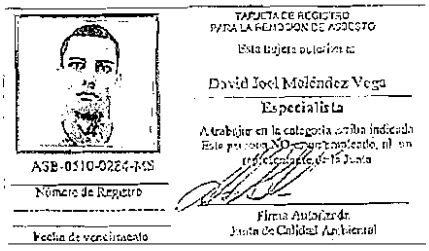
CERTIFLED ENVIRONMENTAL QUALITY BOARD AIR MONITORING SPECIALISTS

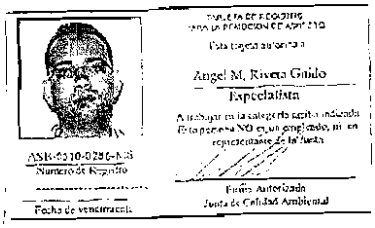

TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO
Esta tarjeta autoriza a:
Miguel A. Cortes
Especialista
A trabajar en la categoría arriba indicada. Esta persona NO es un empleado, ni un representante de la Junta
ASB-0305-0479MS
Número de Registro
Fecha de vencimiento
Firma Autorizada
Junta de Calidad Ambiental


TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO
Esta tarjeta autoriza a:
Carlos Enrique Oculto Feliciano
Especialista
A trabajar en la categoría indicada. Esta persona NO es un empleado, ni un representante de la Junta
03010139MS
Número de Registro
Fecha de vencimiento
Firma Autorizada
Junta de Calidad Ambiental


TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO
Esta tarjeta autoriza a:
Edgardo Medina Castillo
Especialista
A trabajar en la categoría arriba indicada. Esta persona NO es un empleado, ni un representante de la Junta
ASB-0510-0287-MS
Número de Registro
Fecha de vencimiento
Firma Autorizada
Junta de Calidad Ambiental


TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO
Esta tarjeta autoriza a:
Edgardo L. Cruz Santiago
Especialista
A trabajar en la categoría arriba indicada. Esta persona NO es un empleado, ni un representante de la Junta
ASB-0510-0285-MS
Número de Registro
Fecha de vencimiento
Firma Autorizada
Junta de Calidad Ambiental


TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO
Esta tarjeta autoriza a:
David Joel Meléndez Vega
Especialista
A trabajar en la categoría arriba indicada. Esta persona NO es un empleado, ni un representante de la Junta
ASB-0510-0284-MS
Número de Registro
Fecha de vencimiento
Firma Autorizada
Junta de Calidad Ambiental


TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO
Esta tarjeta autoriza a:
Angel M. Rivera Guido
Especialista
A trabajar en la categoría arriba indicada. Esta persona NO es un empleado, ni un representante de la Junta
ASB-0510-0286-MS
Número de Registro
Fecha de vencimiento
Firma Autorizada
Junta de Calidad Ambiental

Parque Industrial Sabanetas Edificio M-1380 - Ponce, PR 00715
Tel. (787) 835-4242 - Fax (787) 835-2004

AIHA
PAT
PROGRAMS

AIHA Proficiency Analytical Testing Programs
3141 Fairview Park Drive, [redacted], Fall Church, VA 22042US.?
main 1+703-846-0757 *fax* 1+703-207-8558
email info.patlc@aiha.org *web* www.aihapat.org

Report Issue Date: 05/15/2012

Carlos Ocasio
Altol Chemical Environmental Laboratory
PO Box 359

Mercedita, PR 00715-0359 PUERTO RICO Lab ID# 199763

Dear Carlos Ocasio,

Please find your laboratory's final Industrial Hygiene Proficiency Analytical Testing (IHPAT) results for Round 189. it is the laboratory's responsibility to thoroughly review results end to immediately contact the AIHA Proficiency Analytical Testing Programs in writing, if any errors are found in your report.

The proficiency demonstrated by the results of this IHPAT round is valid until the close of the retest round an July 16, 2012, if tile laboratory chooses to participste. or the posting of the results of the next IHPAT round on August 15. 2012. Unacceptable performance may be improved by correctly analyzing a set of retest samples. Retest Order Forms and the PAT Programs Schedule are available online at www.aihapat.org. The deadline to order a retest is May 29, 2012.

Participants shall not describe their proficiency status in a manner that implies accreditation, certification or variations thereof PAT results pertain only to the participant organization at the location listed an this results report. Round results are only released to the participant and those entities requiring this information for accreditation and contract purposes. New participants are made aware of the arrangement in advance of participation and consent is sought prior to the release of records for participants. PAT reports may not be reproduced or distributed unless copied in its entirety.

IHPAT **Round 190** sample kits will be mailed to laboratories around July 1, 2012. An email will be sent out upon shipment of round 190 samples. If you do not receive samples within fifteen (15) days please contact the AIHA PAT Programs. Your laboratory's data will be due by 11:59pm ET on August 1, 2012. The analytes for round 190 are:

- Metals–cadmium, lead, chromium
- Asbestos – amosite
- Sifica – talc
- Organics– benzene(BNZ), toluene(TOL), o-xylene(OXY)
- Diffusive – benzene, toluene, o-xylene

Samples are generated, characterized, packaged, and shipped by SRI International, Menlo Park, CA 94025 under contact with AIHA Proficiency Analytical Testing Programs. Unless otherwise noted. sample homogeneity and stability criteria were satisfied for all samples.

I encourage you to contact me with any feedback, questions or if you wish to contest your results at nrnugamba,a@aiha.org.

Sincerely,

Natasha Mugambwa, MS
Manager, AIHA PAT Programs

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Industrial Hygiene Proficiency Analytical Testing Results

This document contains three sub-reports relating to IHPAT Round 189. The first report contains your laboratory's results listed per contaminant, per sample. The second report contains your current and 2 previous test round performance respectively (where applicable), and the final report contains summary results for all participants for IHPAT round 189.

Testing Results for IHPAT Round 789

This part of the report contains your laboratory's results listed per contaminant, per sample

Contaminant	Units	#	Result	Ref. Value	Lower Limit	Upper Limit	z-Score	Rating
Asbestos / fibers (ASB)	f/mm2	1	472	423	207	715	0.6	A
	f/mm2	2	447	221	108	**374**	4.2	U
	f/mm2	3	408	228	118	**373**	3.6	U
	f/mm2	4	100	106	57	171	-0.3	A

Reference value is the ***mean*** at the **reference** laboratories
*Lower limit = reference value - 3 standard deviations and Upper limit = reference value +3 standard deviations
*Z-score = (reported result - reference value)/standard deviation
*Asbestos is the exception because data are positively skewed therefore transformations are used to obtain approximately normal distributions.
A: Acceptable Analysis; U: Unacceptable Analysis
The acceptability of reported results is based on upper and lower performance limits. This is why a reported result may appear unacceptable according to z-score, but be identified as acceptable.

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Overall Performance Summary Concluding with 189

The following table contains your laboratory's current and 2 previous test rounds performance respectively (where applicable). For more information in regard to the determination of proficiency, please visit: http://www.aihaccat.org/ProficiencyTestingPrograms/ihpat/Pages/default.aspx

Sample	Round	Round Performance	Round Score	Proficiency Status -Three Round Score
Asbestos	187	4/4	Pass	
	188	4/4	Pass	
	189	2/4	Fail	P

Please note.
The denominators represent the total number of samples analyzed
The numerators represent the number of acceptable results.
Pass: Round Score ≥ 75% Fail: Round Score < 75%
P – Proficient; NP – Non-proficient; I – Indeterminate.
A laboratory is rated proficient (P) for the associated FoT/Method(s), if the laboratory has a passing score for the applicable PT analyte class in two (2) of the last three (3) consecutive PT rounds. A laboratory is rated non-proficient (NP) for the applicable FoT/Method if the laboratory has failing scores for the associated PT analyte class in two (2) of the last three (3) consecutive PT rounds.
If a laboratory receives samples and does not report the data, the results will be treated as outliers.

Performance of all Labs for IHPAT Round 189

The following table contains aggregate results for all laboratories participating in IHPAT round 189.

Contaminant	#	Ref. Value	Std Dev	RSD (%)	Total Labs	Total Acceptable	Low Outlier	High Outlier
Nickel (NKL)	1	0.0808	0.0039	4.8	145	133	6	6
	2	0.1369	0.0157	11.5	145	139	5	1
	3	0.1204	0.0054	4.5	145	135	4	6
	4	0.0591	0.0031	5.2	145	135	4	6
Cadmium (CAD)	1	0.01286	0.00051	4.0	147	138	6	3
	2	0.02336	0.00118	5.0	147	137	8	2
	3	0.00491	0.00020	4.0	147	133	8	6
	4	0.00319	0.00013	4.0	147	134	5	8
Lead (LEA)	1	0.1056	0.0042	4.0	147	137	7	3
	2	0.0520	0.0021	4.0	147	128	9	10
	3	0.0740	0.0030	4.0	147	136	7	4
	4	0.1338	0.0057	4.2	147	137	6	4
Silica (SIL)	1	0.1613	0.0252	13.9	49	46	3	0
	2	0.0676	0.0090	13.3	49	48	0	1
	3	0.1438	0.0212	14.8	49	49	0	0
	4	0.0955	0.0184	19.2	49	48	0	1
Asbestos / Fibers (ASB)	1	423	85	20.0	715	636	64	15
	2	221	44	20.0	715	632	39	44
	3	228	42	18.6	715	617	88	10
	4	106	19	17.8	715	668	36	13
Ethyl Acetate (EAC)	1	0.9635	0.0436	4.5	128	116	8	4
	2	0.3680	0.0226	6.2	128	123	3	2
	3	0.2139	0.0114	5.3	128	121	3	4
	4	1.2047	0.0621	5.2	128	116	6	6
2-Propanol (IPA)	1	1.1812	0.0999	8.5	128	117	5	6
	2	0.2782	0.0380	13.7	128	125	2	1
	3	1.3524	0.1212	9.0	128	116	3	7
	4	0.5008	0.0518	10.3	128	121	3	4

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U.S. EPA NOTIFICATION OF DEMOLITION AND RENOVATION

Operator Project #	Postmark	Date Received	Notification #

I. Type Of Notification (check one): ☐ Original ☒ Revised ☐ Canceled

II. Facility Description

Building Name: OLD PUERTO RICO OLEFINS

Address: PR 385 KM. 5.4 INT. PR 127 KM. 19.1 TALLABOA PONIENTE WARD

City: PEÑUELAS State: PR Zip Code: 00624 County: USA

Site Location : PR 385 KM. 5.4 PR 127 KM. 19.1 TALLABOA PONIENTE WARD PEÑUELAS

Building Size (square feet): 500,000+ # of Floors: Age in Years: 45+

Present Use: ABANDONED Prior Use: PETROCHEMICAL COMPLEX

III. Type of Operation (check one: ☒ Demo ☐ Oiled Demo ☐ Renovation ☐ Emergency Renovation ☐ Fire Training

IV. Is Asbestos Present? (check one): ☒ Yes ☐ No

V. Facility Information

Owner Name: TALLABOA INDUSTRIAL PARK

Address: PR 385 KM. 5.4 PR 127 KM. 19.1 TALLABOA PONIENTE WARD

City: PEÑUELAS State: PR Zip Code: 00624

Contact: ING. ROBERTO APONTE Telephone: (939)940-2074 Fax: 787-836-2026

Removal Contractor Name: HOMECA RECYCLING CENTER CO, INC

Address: 1575 ALE MUÑOZ RIVERA PMB 120

City: PONCE State: PR Zip Code: 077174211

Contact: EDUARDO RAMOS Telephone: (787)220-5868 Fax: 787-984-0053

Other Operator (demolition/general): HOMECA RECYCLING CENTERCO, INC

Address: 1575 AVE. MUÑOZ RIVERA PMB 120

City: PONCE State: PR Zip code: 00717-0211

Contact: EDUARDO RAMOS Telephone: (787)220-5868 Fax: 787-984-0059

VI. Procedure, including analytical methods, employed to detect the presence of and to estimate the quantity of RACM and Category I and Category II non-friable ACM:

BULK SAMPLES LABORATORY ANALYSIS.

VII. Approximate Amount of Asbestos Materials:

	RACM to be Removed	Non-friable Asbestos Material to be Removed		Non-friable Asbestos Material NOT to be Removed	
		Category I	Category II	Category I	Category II
Pipes (linear feet)	83				
Surface Area (square feet)			800		
Facility Components (cubic feet)					

VIII. Scheduled Dates Demolition or Renovation: Start: 10/15/2012 Complete: 10/15/3013

IX. Dates for Asbestos Removal (MM/DD/YY) Start: 12/01/2012 Complete: 12/31/2012

Days of the Week:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Hours of Operation:	24	24	24	24	24	24	24

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U.S. EPA NOTIFICATION OF DEMOLITION AND RENOVATION

X. Description of planned Demolition or Renovation work to be performed and method(s) to be employed, including demolition or renovation techniques to be used and description of affected facility components:

Dismantling of Plant Equipment/Structures

XI. Description of work practices and engineering controls to be used to comply with the requirements, including asbestos removal and waste handling emission control procedures:

ACM Remval using wet methods and negative pressure enclosure

XII. Waste Transporter #1

Name: Envirorecycling
Address: 1508 Paseo Fagot Suite 3
City: Ponce State: PR Zip Code: 00716
Contact: Jose Velez Telephone: (787) 458-3736

Waste Transporter #2

Name: Environmental & Transport Group
Address: 1575 Ave. Munoz Rivera PMB 372
City: [illegible] State: PR Zip Code: ~~00747~~
Contact: Jayine Correa Telephone: (787) 315-5004

XIII. Waste Disposal

Name: Republic Waste Service
Address: PO BOX 7104
City: Po,,~. State: PR Zip Code: 00732
Contact: Wanda Valenzuela Telephone: 641-7775

XIV. Emergency Demolition (complete Item XIV only if this project is an Emergency Demo.)

1. Attach a copy of the Order to this notice.
3. Name of Authority Issuing Order: N/A Title:
3. Authority of Order (Citation of Code):
4. Date of Order (MM/DD/YY): Date Ordered to Begin

XV. Emergency Renovation (Attach separate sheet with the following information if project is Emergency Renovation.)

1. Date and Hour of the Emergency:
2. Description of the Sudden, Unexpected Event:
3. Explanation of how the event caused unsafe conditions or equipment damage or an unreasonable financial burden.

N/A

XVI. Description of procedures to be followed in the event that unexpected RACM is found or non-friable ACM becomes crumbled, pulverized, or reduced to powder.

1) Stop Dismantling Activities, 2) Secure Are, 3) Notify Owner 4) Prepare the area to remove the material

XVII. I certify that an individual trained in the provisions of NESHAP (40 CFRPXRT 61, SUBPART M) will be on-site during the Demolition or Renovation, and evidence that the required training has been accomplished by this person will be available during normal business hours.

[signature] 10/01/2012 Eduardo Ramos
Signature of Owner/Operator Date Type or Print Name and Title

XVIII. I acknowledge the existence of laws prohibiting the submission of false or misleading statements, and I certify that facts contained in this notification are true, accurate, and complete.

[signature] 10/01/2012 Eduardo Ramos
Signature of Owner/Operator Date Type or Print Name and Title

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REPUBLIC SERVICES EXPRESS WASTE PROFILE

Requested Disposal Facility: 4217 Ponce LF PR

Waste Profile # 4217111705

Saveable fill in form. Restricted printing until all required (yellow) fields are completed.

Sales Rep #: 139

I Generator Information

Generator Name: ANTIGUAS FACILIADES PR OLEFINS (TALLABOA INDUSTRIAL PARK)			
Generator Site Address: CARR 127 KM 73.2 BO. TALLABOA PONIENTE SECTOR EL PUEBLITO			
City: PEÑUELAS	County: USA	State: Puerto Rico	Zip: 00624
State ID/Reg No:	State Approval/Waste Code: (if applicable)		NAICS #:
Generator Mailing Address (If different): CARR 127 KM 13.2 BO. TALLABOA PONIENTE SECTOR EL PUEBLITO			
City: PEÑUELAS	County: USA	State: Puerto Rico	Zip: 624
Generator Contact Name: Tomas Garriga		Email:	
Phone Number: (787) 836-2000 Ext:		Fax Number: (787) 838-2026	

IIa. Transporter Information

Transporter Name: RE ENVIRONMENTAL GROUP		Contact Name: HECTOR RAMOS	
Transporter Address: PO BOX 479			
City: ARROYO	County: USA	State: PR	Zip: 00714
Phone Number: (787) 864-8855	Fax Number: (787) 864-8844	State Transportation Number: SR-58-0574	

IIb. Billing Information

Bill To: HOMECA RECYCLING CENTER CO		Contact Name: TAMARA ECHEVARRIA	
Billing Address: PO BOX 231		Email: tamara@homecarecycling.com	
City: MERCEDITA	State: Puerto Rico	Zip: 00715	Phone: (787) 689-6150

III. Waste Stream Information

Name of Waste: (Petroleum products-applies only to contaminated media and debris).			
☐ Diesel Fuel	☐ Weathered Wood	☐ Friable Asbestos	
☐ Home Heating Fuel #1-6	☐ RCRA Empty Containers	☐ Non Friable Asbestos	
☐ Kerosene	☐ Treated Medical Waste	☑ Friable and Non Friable Asbestos	
☐ Aviation Fuel	☐ Animal Carcass		
☐ Hydraulic Fluid	☐ Plant Trash		
☐ Unleaded Gasoline (UST Corrective Action)	☐ Meth Contaminated Debris		

Process Generating Waste: TSI Removal

Method of Shipment: ☐ BULK ☐ DRUM ☑ BAGGED ☐ OTHER:

Estimated Annual Volume: 3.500 Cubic Yards

Frequency: ☐ ONE TIME ☑ ANNUAL

IV. Certification

I hereby certify that to the best of my knowledge and belief, the Information contained herein is a true and accurate description of the waste material being offered for disposal. I further certify that by utilizing this profile, neither myself nor any other employee of the company will deliver for disposal or attempt to deliver for disposal any wesle which is classified as toxic waste, hazardous waste or Infectious waste, or any other waste material this facility is prohibited from accepting by law. Our company hereby agrees to fully indemnify this dispasal facility against any damages resulting from this certification being inaccurate or untrue. I further certify that the company has not altered the form or content of this profile sheet as provided by Republic Services, Inc.

TOMAS GARRIGA
Authorized Representative Name/Title (Type or Print)

Authorized Representative Signature

ANTIGUAS FACILIDADES PR OLEFINS
Company Name

01/28/2011
Date

REV 1

©Republic Services, May 2009

Republic Services, Inc.

REPUBLIC SERVICES, INC.

18500 N Allied Way, Phoenix, AZ 85054

SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile #	Expiration Date
	4217111705	1/28/2014

I. Decision Request: ☑ Initial ☐ Recertification ☐ Change

Disposal Facility: 4217 - Ponce Landfill

Generator Name: Antiguas Facilidades PR Olefina (Tallaboa Industrial Park)

Generator Site Address: Carr 127 KM 13.2 Bo Tallaboa Poniente sector El P

City: Penuelas	County:	State: PR	Zip:

Name of Waste: F & NF Asbestos

Estimated Annual **Volume:** 3500 Cubic Yards

II. Special Waste Department Decision: ☑ Approved ☐ Rejected

Management Method(s): ☑ Landfill ☐ Solidification ☐ Bioremediation ☐ Transfer Facility

Problematic Special Waste according to **Republic?** ☐ Yes ☑ No

If yes, which one?

Approved by Special Waste Review **Committee?** ☐ Yes ☐ No ☑ Not Applicable

Precautions. Conditions or Limitations on Approval

Friable Asbestos must be packaged, labeled and shipped in accordance with all applicable regulations.

Special Waste Analyst Signature: Raymond Rutkowski Name **(Printed):** RAYMOND RUTKOWSKI

Date: 21712011

III. Facility Decision: ☑ Approved ☐ Rejected

Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: _____ Name (Printed): JOSE SOTO

Date: 2/7/2011

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Permiso General Consolidado

Forma PGC-014

Desrnantelarniento Antiguas Instalaciones PR Olefins

Tipo de solicitud: Nueva

Datos Localización

De conformidad con las disposiciones legales y reglamentarias vigentes, se expide el presente Perrniso General Consolidado para un predio de terreno ubicado en:

Dirección Fisica

Municipio: Peñuelas

Unidad o Km: km 19.1

Sector: Sector El Pueblito

Apartamento:

Barrio: Tallaboa Poniente

Calle o carrefera: Carr. PR-127

Número(s) de Catastro

387-000-007-49

Coordenadas Larnberl

X / Y :

Dueño(s)

Procaribe PIC Homeca Recycling

1575 Ave. Munoz Rivera PMB 120, Ponce, PR, 00717-0211, Estados Unidos

Contratista

Carlos Orlando Sanchez

Inspector

Edwin Ortiz Lic. No. 18035

Docurnento Ambiental

Número de caso: 2011-REA-00661

Caso de Referencia

Tipo caso: 2012-009772-PDE-0580

Datos de Permiso

Tipo de obra a **realizar:** Demolición.

Tipo de dependencia a construir: Antigua Refineria

Cantidad de unidades a construir: 1

Área total

Lugar del proyecto: 152444 metros cuadrados

Obras a realizarse: 41064 metros cuadrados

Fecha estimada

Inicio de obras: 15-12-2012

Terminación de obras: 20-12-2013

Cuerpo(s) de agua **receptor(es)** de la escorrentia

#	Nombre del cuerpo de agua

Componentes de la **corteza** terrestre a:

Volumen total a remover: 0 metros cúbicos

Volumen total a rellenar: 0 metros cúbicos

Volumen total a almacenar: 0 metros cúbicos

Volumen total a disponer: 0 metros cúbicos

Valumen total a extraer: 0 metros cubicos

Desperdicios solidos:

Volumen total a generar: 6000 yardas cúbicas

Demolición:

Volumen de material a generar: 0 metros cubicos

Tipo de material: Solo se desmantelará la estructura de metal

Instalacion de tuberias **y/o** cables soterrados[1]

Distancia lineal: 0 pies

1 A ser instalados en áreas previamente construidas, fuera de los limites de la propiedad.

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CONFIDENTIAL PER PROTECTIVE ORDER

Permiso General Consolidado

Forma PGC-014

Condiciones

GENERALES

1. Se deberd instalar un rótulo en la entrada del proyecto inmediatamente sea expedido el Permiso General Consolidado Este rótulo deberá ser de un tamailo mínimo de 4 pies por 8 pies que incluya el nombre del proyecto y el número de Permiso General Consolidado. El tamailo minima de a s lelras será de 3 pulgadas.
2. De interesar continuar a actividad para la cual se expidió este Permiso con posterioridad a la fecha de expiración de éste, deberá someter la correspondiente Solicitud de Renovación a tenor con las disposiciones reglamentarias aplicables. Esta solicitud deberd presentarse utilizando la Forma provista para estos fines, par lo menos treinta (30) dias antes de la fecha de expiración de este Permiso
3. Toda información, especificación y documentos sometidos en esta solicitud forman parte de su Permiso General Consolidado. Será considerado coma modificación cualquier cambio que se realice a la solicitud originalmente presentada.
4. Cualquier modificación realizada al permiso aprobado originalmente no altera la vigencia del mismo.
5. La JCA. a emitir este Permiso a través de la OGPe, no releva al solicitante de su responsabilidad de obtener permisos o autorizaciones adicionales de la JCA, según requerido por ley. La emisión del Permiso no debe considerarse como una autorización para llevar a cabo actividades que no están especificamente cubiertas en el mismo, las cuales pueden causar contaminación del agua, aire o terreno.
6. La JCA podrá solicitar al poseedor de este permiso que dentro de un término razonable provea cualquier información para determinar si existe causa para madificar o revocar, a para determinar si se está cumpliendo con sus términos.
7. El poseedor del permiso permitirá a la JCA, o un representante autorizado por ésta, la entrada a la instalación para inspeccionar y verificar el cumplimiento con los reglamentos sustantivos y procesales aplicables.
8. La JCA se reserva el derecho de intervenir con este proyecto en otros aspectos no cubiertos en este permiso.
9. Cada condición de este Permiso es considerada independientemente de las demás. Si la aplicación de cualquier condición de este Permiso quedará sin efecto debido a cualquier circunstancia, las restantes condiciones de este Permiso no se verán afectadas

PERMISO CES

10. El dueño u operador deberá mantener copia de este formulario, el cual constituye su Permiso General Consolidado y copia del Plan CES autorizado por este permiso en el lugar del proyecto.
11. El dueño u operador de las obras deberá implantar en todas sus partes el Plan CES autorizado por este Permiso y mantener en buenas condiciones de operación todas las medidas decontrol de erosión y sedimentación y otras medidas de protección identificadas en el Plano CES.
12. Todas las medidas de control de erosión y sedimentación deberán ser seleccionadas, instaladas y mantenidas de acuerdo al Manual de Puerto Rico para el Control de a Erosión y Sedimentación en Areas de Desarrollo y a cualquier especificación relevante del manufacturero y las mejores prácticas de la ingenieria.
13. Los sedimentos de a s trampas de sedimentos y charcas de sedimentación deberán ser removidos cuando se alcance el 50% de la capacidad de diseño de a s mismas, según especificado en el Plan CES.
14. Se deberán instalar medidas de Control en aquellas áreas donde se hayan cesado temporera o permanentemente a s actividades de construcción.
15. De ser necesario realizar una modificación mayor según definida en el Reglamento para el Control de a Erosion y Prevención de la Sedimentación, el dueño, agente o representante autorizado deberd presentar a ia JCA a través de la OGPe una Solicitud de Modificacibn de Permiso General Consolidado acompañada de todos los documentos correspondientes que requieren reflejar la modificación antes de implantar a misma.
16. El inspector designado deberá ser un ingeniero o arquitecto autorizado a ejercer la profesión en Puerto Rico. Deberá someter informes periódicos sobre la implantación del Plan CES y el desarrollo de sus actividades a a JCA. El primer informe deberd ser sometido no más tarde del quinto (5to) dia laborable a partir de a fecha de inicio de las obras. El mismo deberá ser acompaiiado de la Certificación del Inspector. Los informes subsiguientes deberán someterse mensualmente a partir de la fecha en que sea sometido el 1er informe
17. Todos los informes sometidos, según requeridos en las condiciones de este Permiso deberán incluir fotografías con un tamailo mínimo de 4 pulgadas por 6 pulgadas a colores que evidencien las medidas de control de erosión provisionales y permanentes implantadas.
18. Una vez finalicen a s actividades autorizadas mediante este Permiso deberá someter un informe final que evidencie la culminación de a s mismas y la implantación de las medidas de control de erosión permanentes aplicables.

PERMISO DS-3

19. Tado cargamento de desperdicios sólidos no peligrosos producido por una actividad generadora. sera enviado única y exclusivamente a una instalación de disposición Anal (Relleno Sanitario) acompañado de un manifiesto. El manifiesto a utilizarse sere el formulario oficial provisto por a JCA. Ninguna finca privada deberd ser utilizada para disponer finalmente de tales desperdicios.
20. Todo desperdicio generado será transportado para su disposición final por una compañía o empresa debidamente autorizada por a JCA.
21. Deberán mantener en el proyecto un registro de todos los manifiestos (formulario oficial provisto por la JCA) originados y devueltos por la instalación de disposición final.
22. Ninguna persona podrá mantener una propiedad o sitio de construcción en forma tal que se exponga a los vehículos a recoger lodo, polvo, sustancias pegajosas, basura, o material viscoso o extraño en las ruedas u otras partes del vehiculo, los cuales a su vez puedan ser depositados en las calles, callejones u otro sitio público.
23. De ser necesario modificar el Plan de Operacibn, el dueño, agente o representante autorizado deberá someter a a JCA a través de OGPe una Solcitud de Modificación de Permiso General Consolidado junto a! Plan enmendado antes de implantar la modificación.
24. Una vez finalicen las actividades autorizadas mediante este Permiso deberá someter todos los manifiestos (formulario oficial provisto por la JCA) originados y devueltos par la instalación de disposición final

PERMISO PFE

25. Deberán proveer y utilizar un sistema para controlar a s emisiones de polvo fugitivo en todo el proyecto para evitar en todo momento que materia particulada gane acceso al a r e más allá de la colindancia de este proyecto.
26. Deberán cubrir con toldos o encerados los camiones de acarreo de material de relleno y escombros durante los viajes de carga y descarga.
27. No se permitirá la quema de arbustos, árboles o la quema de basura en el proceso de limpieza de los predios de la construcción
28. Nose permitirá la emisión visible de contaminación de aire provenientes de vehículos de motor (equipo pesado) impulsados por combustible diesel, estando fijos y estacionados con una opacidad mayor al 20% por más de cinco (5) segundos consecutivos.

CONFIDENTIAL - ATTORNEYS EYES ONLY

Permiso General Consolidado

Forma PGC-014

Apercibimiento

La JCA podrá revocar este Permiso antes de la fecha de vencimiento si se violan las condiciones del mismo o reglamentos sustantivos o procesales aplicables de a JCA; la agencia además podrá emitir una Orden de Cese y Desistimiento y Mostrar Causa.

'Cuanda la agencia deniegue a concesión de una licencia, franquicia, permiso, endoso, autorización o gestión similar. o de alguna manera se intente impugnar las condiciones del mismo, la parte adversamente afectada tendrá derecho a impugnar la determinación de la agencia por media de un procedimiento adjudicativo, según se establezca en el Reglamento de Vistas Administrativas de la Junta de Calidad Ambiental de la JCA y en las secs. 2151 a 2168] de la Ley Núm. 170 del 12 de agosto de 1988, según enmendada, Ley de Procedimiento Administrativo Uniforme".

Firma/Sello

Fecha expedición
16-01-2013

Fecha expiración
16-01-2018

Reynaldo Matos Jiménez
Director Ejecutivo Interino

RX 6
CONFIDENTIAL - SUBJECT TO PROTECTIVE ORDER
Page 104 of 1,639

Consolidated General Permit

Form PGC-014

Desrnantelarniento Antiguas Instalaciones PR Olefins

Type of Application: New

Location details

In compliance with the current legal and regulatory provisions, the following Consolidated General Permit is issued for the site located at:

Physical Address

Municipality: Peñuelas

Ud. º Km: km 19.1

Sector: Sector El Puebiito

Apt./Suite No:

Ward: Tallaboa Poniente

Road or Street: Carr. PR-127

Cadastre **Number(s):**

387-000-007-49

Lambert Coordinates
X / Y :

Owner(s)

Procaribe PIC Homeca Recycling

1575 Ave. Munoz Rivera PMB 120, Ponce. PR, 00717-0211
Estados Unidos

Contractor

Carlos Orlando Sanchez

Inspector

Edwin Ortiz Lic No. 18035

Environmental Compliance

Case number: 2011-REA-00661

Reference Case

Case type: 2012-009772-PDE-0580

Project Details

Type of work to be done: Demolition.
Dependency type to be built: Antigua Refineria
Number of units to build: 1

Total area
Project site: 152444 square meters
Construction site: 41064 square meters

Estimated date
Works starting date: 15-12-2012
Works end date: 20-12-2013

Receiving water runoff project

Name of Body of water

Components of the terrestrial cortex to:
Total volume to remove: 0 cubic meters
Total volume to be filled: 0 cubic meters
Total volume to be stored: 0 cubic meters
Total volume to be disposed of: 0 cubic meters
Total volume to extract: 0 cubic meters

Solid waste:
Total volume to **be** generated: 6000 cubic yards

Demolition:
Total volume to be generated: 0 cubic meters
Material Type: Solo se desmantelará la estructura de metal

Underground pipelines **and/or** cables installation [2]
Linear distance: 0 feet

2 To ***be*** installed in areas previously constructed outside the boundaries of the property.

Consolidated General Permit

Form **PGC-014**

Conditions

GENERALS

1. A sign must be installed at the project entrance immediately after the Consolidated General Permit is issued. This sign must be at a minimum a 4 feet by 8 feet and will include the project name and the Consolidated Environmental Permit number. The letters minimum sire will be 3 inches.
2. If party is interested to continue the activity for which the permit was issued after its expiration date, an Application for Renewal must be submitted in accordance with the applicable regulations. This request must be done using the application form designed for this purpose. at least thirty (30) days before the expiration date of this Permit.
3. All information, and specifications and documents submitted in this application become part of the Consolidated General Permit. Any changes to the application submitted to OGPe will be considered a modification.
4. Any modification to the approved permit doer not change the expiration date of the permit.
5. In issuing this Permit through OGPe, Environmental Quality Board (EQB) does not relieve the permit holder of his responsibility to obtain additional permits or authorizations from EQB or OGPe, as required by law. The issuance of the Permit should not be considered as an authorization to carry out activities that are not specifically covered in it. which can cause pollution of water, air or land.
6. EQB may request the applicant to provide, within a reasonable amount of time, any information that will help determine if there is sufficient cause to ask for a modification or revocation or if permit holder is in compliance with terms and conditions.
7. The holder of the permit will allow the EQB, or its authorized representative, lo enter the facility to inspect and verify compliance with applicable substantive and procedural regulations
8. The EQB reserves the right to interfere with this project in other aspects not covered in this permit.
9. Each condition in this permit is considered "dependently from the others. If the application of any condition of this Permit is rendered null due to any circumstance, the other conditions of this permit shall not be affected.

CES (Control. Erosion, Sedimentation) Permit

10. The owner or operator shall maintain copies of this form, which constitutes the General Consolidated Permit and copy of the CES Pan authorized by this permit on project site.
11. The owner or operator of the construction works should implement in its entirety the CES Plan approved by this Permit and keep in good operating condition all control erosion and sedimentaton measures and other protective measures identified in the CES Plan.
12. All measures to control erosion and sedimentation should be selected, installed and maintained according to the Puerto Rico Manual for the Control of Erosion and Sedimentation in Development Areas and any relevant specification from the manufacturer and engineering best practices.
13. Sediment from sediment traps and ponds shall be removed when it reaches 50% of their capacity, as specified in CES Plan.
14. Control measures shall be implemented in areas where construction activities have been temporarily or permanently ceased.
15. If it becomes necessary to make a major modification as defined in the Regulations for Erosion and Sedimentation Control, the owner or authorized representative must submit to EQB through OGPe an Application for Modification of the Consolidated General Permit with all related documents that proves a modification must occur before implementing It.
16. The designated inspector shall be an engineer or architect licensed to practice in Puerto Rico. The inspector must submit to EQB periodic reports on the implementation of the CES Plan and the progress of the plan activities. The first report shall be submitted not later than the fifth (5th) business day after the date of commencement of works. In addition to the report. the inspector must submit his/her certification with OGPe's form designed for this purpose. Subsequent reports shall be submitted monthly from the date the first report is submitted.
17. All reports submitted, as required by the conditions of this permit must include color photographs (4 inches by 6 inches) that demonstrate the temporary and permanent erosion control measures implemented.
18. Upon completion of the activities authorized by this permit. the applicant shall submit a final report evidencing the completion thereof and the implementation of permanent erosion control measures applicable.

DS-3 Permit

19. Any shipment of non-hazardous solid waste produced by a generating activity, will be sent exclusively to a disposal facility (landfill) accompanied by a manifest, which will be provided by the EQB. No private property shall be used as a final disposal site for such waste.
20. All waste generated will be transported lor disposal by a company *or* corporation duly authorized by the EQB.
21. A registry must be maintained at the project site of all originated and returned manifests by the final disposal installation.
22. No person shall maintain a property or building site in a manner that exposes vehicles to collect mud, dirt, sticky substances. trash. or viscous or foreign material on the wheels or other parts of the vehicle, which in turn can be deposited on the streets, alleys or other public places.
23. If it becomes necessary to modify the Operating Plan, the owner, agent or authorized representative must submit to EQB through OGPe an Application for Modification of the Consolidated General Permit with the amended plan before implementing any change.
24. Once all authorized activities by this permt **are** finalized all originated and returned manifests by the final disposal installation must be submitted.

Emissions Source Permit (PFE)

25. The applicant must provide and use a system to control fugitive dust emissions throughout the project to avoid at all times particulate matter from getting airborne. Water sprayers and tanker trucks to control fugitive particulate emissions may be used throughout the project.
26. Trucks hauling fill material and debris must be covered with tarpaulins or awnings during loading/ unloading trips.
27. The burning of bushes, trees or burning trash during the premises cleaning process will not be allowed.
28. The emission of visible air pollution from motor vehicles (heavy equipment) powered by diesel fuel, being stationary and parked, wth an opacity greater than 20% for more than five (5) consecutive seconds will not be allowed, according to Rule 403 of the Atmospheric Pollution Control Regulations.

Consolidated General Permit

Form PGC-014

Notice

The Puerto Rico Environmental Quality Board (EQB) may revoke this permit before the expiration date if the conditions of the permit or the provisions of the applicable regulations are violated. The EQB may also issue a cease and desist order.

When the agency refused to grant a license, franchise, license, endorsement, approval or similar management, or otherwise attempt to challenge the conditions thereof, the party adversely affected shall have the right to challenge the determination of the agency through **a** adjudicative proceeding, **as** set forth in the Rules of Administrative Hearings of the Environmental Quality Board of the EQB and the secs. 2151-2168 of Act No. 170 of August 12, 1988, as amended. the Uniform Administrative Procedures Act. "

Signatures and stamps

Issue date
16-01-2013

Expiration date
16-01-2018

Reynaldo Matos Jiménez
Director Ejecutivo Interino

000038

CSP-CE-001

Estado Libre Asociado de Puerto Rico
Comisión de Servicio Publico
PO BOX 190870
San Juan, P.R. 00919-0870

CERTIFICACION DE TRAMITE DE AVISO DE EXCAVACION YIO DEMOLICION

☑ Inicial ☐ lera extension ☐ 2da extensión

NUMFRO DE CONTROL: 2012-861 FECMA PRESENTACION: 05/07/2012 (MESIDINANO)

NOMBRE DE LA COMPAÑIA: HOMECA RECYCLING CENTER, INC.

DIRECCION DE LA EXCAVACION Y/O DEMOLICION:

BO. TALLABOA PONIENTE C/ EL PUEBLITO CARR. 127, KM 19, HM 1, Peñuelas PR

FECHA COMIENZO: 05/12/2012 (MES/DIA/AÑO) FECHA EXPIRACION: 0711112012 (MES/DIA/AÑO)

HORARIO: 7:00 A 4:00PM

MAQUINARIA ☑ Si ☐ No

DESCRIPCION EXCAVADORA

EXPLOSIVOS: ☐ Si ☑ No

DESCRIPCION:

Cristobal Ortiz Roman
FIRMA DEL FUNCIONARIO QUE TRAMITO EL AVISO

SELLO OFICIAL

05/07/2012
FECHA

Advertencia: Esta certificación no constituye un permiso para excavar dentro de la jurisdicción del Gobierno de Puerto Rico. La misma deberá ser mostrada a requerimiento de la Policía de P R , El Cuerpo de Bomberos, Oficiales del Cuerpo de Ordenamiento del Tránsito del Departamento de Transportación y Obras Públicas, Lo Policía Municipal y/o Oficiales de la, Comisión dc Servicio Público.

"SIRVIENDO CON HONRADEZ Y SERIEDAD"

000039

CONFIDENTIAL & PROPRIETARY

GOBIERNO DE PUERTO RICO
OFICINA DEL GOBERNADOR
JUNTA DE CALIDAD AMBIENTAL
Área de Calidad de Aire

Forma PGC-009

GOBIERNO DE PUERTO RICO
Oficina de Gerencia de Permisos

CERTIFICACION DE NO PRESENCIA DE ASBESTO EN ESTRUCTURAS A DEMOLERSE

(Deberá completarse en letra de molde o impresa)

PGC-_____
PARA USO OFICIAL

Yo, Carlos E. Ocasio (Nombre) mayor de edad, casado (Estado Civil) y vecino de Guayanilla (Municipio),

Dirección Postal PO BOX 560180 Guayanilla (Pueblo), P.R 00656 (Zip Code)

Teléfonos: Residencial (787)820-6141 Oficina ( ) - Ext ___

Fax (787)835-2004

Certifico que:

1. La estructura localizada en Peñuelas (Municipio) la cual será objeto de una demolición se encuentra libre de asbesto.
6. La información antes indicada es cierta y correcta.
7. Afirmo y reconozco las consecuencias de incluir y someter información falsa en este documento.
8. Para que así conste, firmo la presente certificación en Ponce (Municipio) de Puerto Rico, hoy día 24 de oct de 2012

Carlos E. Ocasio

Firma y Sello del Profesional o
Firma del Inspector de Asbesto registrado por la JCA (Original)

Nota: **Ingenieros** o **Arquitectos deberán someter** evidencia de **que se encuentra al día** en el **pago** de sus **cuotas** de **colegiación e Inspectores** de **Asbesto deberán someter** evidencia de la **tarjeta** de **registro provista** por la JCA.

Dirección Física: Ave. Ponce de León 1308. Carr Estatal 8838, Sector el Cinco, Ria Piedras, PR 00926
Dirección Postal: Apartado 11488. Santurce, PR 00910-1488
Tel. (787) 767-8181 • Fax (787) 767-1962

PUERTO VERDE VERDE

000040

CONFIDENTIAL & PROPRIETARY

CERTIFICACION DE NO PRESENCIA DE PINTURA CON BASE DE PLOMO EN ESTRUCTURAS A DEMOLERSE

(Deberá completarse en letra de molde o impresa)

PGC-_____
PARA USO OFICIAL

Yo Carlos E. Ocasio (Inspector a Evaluador de Riesgos), mayorde edad, casado (Estado Civil) y vecino de Guayanilla (Municipio),

Dirección Postal PO Box 560180 Guayanilla (Pueblo), P.R. 00656 (Zip Code)

Teléfonos: Residencial (787) 430-6141 Oficina ( ) - Ext. ___

Fax ( )

Certifico que:

1. Estoy certificado por la Junta de Calidad Ambiental como (X Inspector / ☐ Evaiuador de Riesgos) con Número de Certificación 7263-0311-II-001 la cual se encuentra vigente.
2. La estructura localizada en Peñuelas la cual sera objeto de una demolición se encuentra libre de pintura con base de plomo.
9. La información antes indicada es cierta y correcta.
10. Afirmo y reconozco las consecuencias de incluir y someter información falsa en este documento.
11. Para que así conste, firmo la presente certificación en Ponce (Municipio) de Puerto Rico, hoy día 29 de oct de 2012

Carlos E. Ocasio
Firma del Inspector o Evaluador de Riesgos (en Original)

Nota : **Deberá someter** evidencia de la **tarjeta** o **certificado provista por** la JCA.

000041

CERTIFICACION DE NO PRESENCIA DE ASBESTO EN ESTRUCTURAS A DEMOLERSE

(Deberá completarse en letra de molde o impresa)

PGC-_____
PARA USO OFICIAL

Yo, Carlos E. Ocasio (Nombre), mayor de edad, casado (Estado Civil) y vecino de Guayanilla (Municipio)

Dirección Postal PO Box 560180 Guayanilla (Pueblo), P.R 00656 (Zip Code)

Teléfonos: Residencial (787) 880-6141 Oficina (___) _____ Ext ___

Fax (787) 835-2004

Certifico que:

1. La estructura localizada en Peñuelas (Municipio) la cual será objeto de una demolición se encuentra libre de asbesto.
6. La información antes indicada es cierta y correcta
7. Afirmo y reconozco las consecuencias de incluir y someter informacdn falsa en este documento.
8. Para que así conste, firmo la presente certificación en Ponce (Municipio) de Puerto Rico, hoy día 24 de oct de 2012

Carlos E. Ocasio

Firma y Sello del Profesional o
Firma del inspector de Asbesto registrado por la JCA (Original)

Nota: Ingenieros o Arquitectos deberán someter evidencia de que **se encuentra al** dia en el **pago** de sus **cuotas** de **colegiación e Inspectores** de **Asbesto deberán someter** evidencia de la **tarjeta** de **registro provista** por la JCA.

CONFIDENTIAL & PROPRIETARY

CERTIFICACION DE NO PRESENCIA DE PINTURA CON BASE DE PLOMO EN ESTRUCTURAS A DEMOLERSE

(Deberá completarse en letra de molde o impresa)

PGC-_____
PARA USO OFICIAL

Yo Carlos E. Ocasio, mayor de edad, casado y vecino de Guayanilla.
(Inspector a Evaluador de Riesgos) (Estado Civil) (Municipio)

Dirección Postal PO Box 560180 Guayanilla, P.R. 00656
(Pueblo) (Zip Code)

Teléfonos: Residencial (787) 430-6141 Oficina ( ) - Ext. ___

Fax ( ) -

Certifico que:

1. Estoy certificado por la Junta de Calidad Ambiental como (X Inspector / ☐ Evaluador de Riesgos) **con** Número de Certificación 7263-0311-II-001 la cual se encuentra vigente.
2. **La** estructura localizada en Peñuelas la cual sera objeto de una demolición se encuentra libre de pintura con base de plomo.
9. La información antes indicada es cierta y correcta.
10. Afirmo y reconozco las consecuencias de incluir y someter información falsa en este documento.
11. Para que así conste, firmo la presente certificación en 3nce (Municipio) de Puerto Rico, hoy día 29 de oct de 2012

Carlos E. Ocasio
Firma del Inspector o Evaluador de Riesgos (en original)

Nota : **Deberá someter** evidencia de la **tarjeta** o **certificado provista por** la JCA.

Permiso de Demolicion

OLD FACILITIES PR OLEFINS

Entidad / persona certificada

De conformidad con las disposiciones legales y reglamentarias vigentes. se expide el presente Permiso de Demolición, Certificado, Industrial, Privado para las obras a realizarse en un predio de terreno ubicado en :

Dirección fisica

Municipio: Peñuelas

Unidad o Km: KM. 19.1

Sector: EL PUEBLITO

Apartamento:

Barrio: Tallaboa Poniente

Calle o carretera: CARRETERA 127

Número(s) de Catastro

387-000-007-11

Dueño(s)

HOMECA RECYCLING CENTER CO., INC

Certificado por

Pmyectista - Ing. jose LUIS rivera Lic. No. 17818

Inspector Designado

Ing. JOSE LUIS RIVERA Lic. No. 17818

Casos de Referencia

Colindantes

Norte SEGREGATED LOT "A'
Distrito Industrial pesado

Este STATE HIGHWAY #2
Distrito Area No Calificada

Sur: CHICAGO BRIDGE 8 IRON COMPANY
Distrito: Industrial pesado

Sur: RENTAS ESTATALES
Distrito: Industrial pesado

Oeste: CARRETERA 127
Distrito: **Area** No Calificada

Datos permiso

Calificacion

Distrito(s) de Calificación: Industrial pesado

Distrito(s) Especial:

Distrito(s) Sobrepuesto:

Accesos: Privado

Distrito en el Mapa de Inundabilidad: ZONA AE

Tipo de suelo:

Explosivos

No aplica

Servidumbres existentes

Acueductos (AAA) y Alcantirallado (AAA)/Electricidad (AEE)/Vía municipai de acceso (Municipio)/Via estatal de acceso (DTOP)/Telecomunicaciones (PRTC)

Materiales de **construcción**

Paredes exteriores: Otros: METAL FERROSO Y NO FERROSO.

Paredes interiores: Otros: METAL FERROSO Y NO FERROSO.

Techo: Otros: METAL FERROSO Y NO FERROSO.

Piso: Hormigon armado.

Plantas

Cantidad de plantas : 1

Dimensiones de la estructura

Altura: 165 metros

Largo: 1095.5351 metros

Ancho: 139.8140 metros

CONFIDENTIAL - PENDING REVIEW

CONDICIONES ESPECIALES

CONDICIONES GENERALES

Las obras de demolición deberan cumplir con las siguientes condiciones generales:

1. La demolición deberá proseguir según las especificaciones y el itinerario de trabajo establecido para el proyecto en el Documento Ambiental.
2. Se cumplirá en todo momento con la Ley Sobre Politica Pública Arnbiental y las disposiciones de la Regla Número 23 del Reglamento de Seguridad Industrial del Departamento del Trabajo.
3. Es requisito indispensable que formalice una poliza de Seguro de Obreros en la Oficina correspondiente al Fondo del Seguro del Estado. Deberá cargar evidencia de la misma previo al inicio de las obras de demolición.
4. Se le indica a la parte proponente que deberá tomar las precauciones necesarias para no ocasionar daiios a estructuras existenles en terrenos adyacentes al proyecto. Sera responsabilidad de la parte proponente obtener los permisos de los dueños que resulten afectados por las obras de construcción a realizarse en las colindancias, previo al comienzo de las mismas.
5. Se adviene que, esta aprobacion no implica que se prive a los propietarios colindantes del derecho de ejercitar cualquier accion legal que estime pertinente en contra de los proponentes en este caso, para proteger sus propiedades y reclamar compensacion por daños y perjuicios que se les sea ocasionados por las obras de dernolicibn aqui autarizadas.
6. Deberá coordinar con las autoridades pertinentes para la disposición de desperdicios sólidos.
7. Para efectos de coordinación, es responsabilidad del proponente notificar con anticipación sobre cualquier interferencia de transito, o servicios que esta obra pueda ocasionar, a la Autoridad de Energia Electrica, la Autoridad de Acueducios y Alcantarillados, el Dpto. de Transportación y Obras Publicas. la Autoridad de Carreteras y Transportacidn, Policia de Puerto Rico, la Junta de Calidad Ambiental. la Junta Reglamentadora de Telecomunicaciones, la Defensa Civil, el Municipio donde se llevará a cabo, los colindantes y vecinos y el Instituto de Cultura Puertorriqueña.
8. Asi mismo, deberá notificar a la OGPe

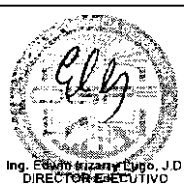
Una parte adversamente afectada por una actuacion, determinación final o resolución podrá presentar un recurso de revision administrativa ante la Junta Revisora. dentro del termino jurisdiccional de veinte (20) dia contados a partir de la fecha de archivo en autos, de copia de la notificación de la actuacion, determinación final o resolución. Presentada la revision administrativa, la Oficina de Gerencia. el Profesional Autorirado, la Junta Adjudicativa o el Municipio Autonomo con Jerarquia de la I a la V, elevara a la Junta Revisora copia certificada del expediente del caso, dentro de los dier (10) dias naturales siguientes a la radicación de la revision.

La parte adversamente afeclada natificara copia de la solicitud de revision a las partes y a los interventores que hayan sido autorirados, dentro de las cuarenta y ocho (48) horas de haber radicado el recurso de revision administrativa establecido en el Artículo 12.1 de la Ley Núm. 161 de 1 de diciembre de 2009. Este requisito es de carácter jurisdiccional. **En** el propio escrito de revision, la parte recurrente certificará a la Junta Revisora su cumplimiento con este requisito. La notificación podrá hacerse por correo o por cualquier rnedio electrónico quc se establerca en el Reglamento Interno.

Firma I Sellos

Fecha de expedición

2910412012



000045

CONFIDENTIAL - ATTORNEYS EYES ONLY

Notificación al Centro de Coordinación de Excavaciones y Demoliciones (CCED) de la Comision de Servicio Publico

El dia 28 de abril de 2012, jose rivera ha radicado el Permiso de Demolición con número de casa 2012-009772-PDE-05800, para un predio de terreno ubicado en:

Municipio: Peñuelas

Unidad o Km: KM 19.1

Sector: EL PUEBLITO

Apartamento:

Barrio: Tallaboa Poniente

Calle o carrelera: CARRETERA 127

El expediente de este casa se aneja a esta notificación para su debida evaluación y tramitación

Nata:

Según reauerido, el CCED notificará a los dueños de las Utilidades sobre el correspondiente aviso de demolición en un termino no mayor de un (1) día de recibida esta solicitud. Así mismo, de ser debidamente notificado por el proponente, el CCED otorgará tiempo adicional al otorgado en la certificación original, tomando en consideración que no otorgarán más de dos (2) extensiones por aviso.

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Demolition Permit

OLD FACILITIES PR OLEFINS

Person/ Business Details

In compliance with the current legal and regulatory provisions, this Demolition Permit is issued. Certified, Industrial, Private far the work to be done on the site located at:

Physical Address

Municipality: Peñuelas

Ud. o Km: KM. 19.1

Sector: EL PUEBLITO

Apt./Suite No:

Ward: Tallaboa Poniente

Road or Street: CARRETERA 127

Cadastre **Number(s):**

387-000-007-11

Owner(s)

HOMECA RECYCLING CENTER CO., INC.

Certified by

Project Manager - Eng. jose LUIS rivera Lic. No. 17818

Designated inspector

Eng. JOSE LUIS RIVERA Lic. No. 17818

Reference **Cases**

Adjacent Neighbors

North: SEGREGATED LOT "A"
Distrito: Heavy industrial

East: STATE HIGHWAY #2
Distrito: Non-Classified Area

South: CHICAGO BRIDGE & RON COMPANY
Distrito: Heavy industrial

South: RENTAS ESTATALES
Distrito: Heavy industrial

West: CARRETERA 127
Distrito: Non-Classified Area

Project Details

Qualification District

Qualification District: Heavy industrial

Special District:

Overimposed district:

Access: Private

Flood Insurance Rate Map Sheet No.: ZONAAE

Type of soil:

Explosives

Not applicable

Existing Utilities

Aqueducts and Sewers (PRASA)/Electricity (PREPA)/Municipal access way (Municipality)/State access way (DTOP)/Telecommunications (PRTC)

Construction materials

Exterior Walls: Others: METAL FERROSO Y NO FERROSO.
Interior Walls: Others: METAL FERROSO Y NO FERROSO.
Roof: Others: METAL FERROSO Y NO FERROSO,
Floor: Reinforced concrete.

Floors

Number of floors: 1

Structure dimensions

Maximum height: 165 meters
Length10955351 meters
Width: 139.8140 meters

SPECIAL CONDITIONS

GENERAL CONDITIONS

Demolition projects must compiy with the following general conditions:

1. Demolition must occur following specifications and work schedule established for the project mentioned in the Environmental Document.

2. Project must fully comply with the Law on Environmental Public Policy and the provisions of Rule No. 23 of the Industrial Safety Regulations of the Puerto Rico Department of Labor.

3. It is a requirement to obtain a worker's compensation insurance policy at the Office: Fondo del Seguro del Estado

4. The proponent is notified that he/she shall take the necessary precautions to avoid damage to existing adjacent structures, It is the sole responsibility of the proponent to obtain permission from adjacent neighbors who may be affected by the construction works happening next to their properties, prior to the start of construction.

5. It is advised that this approval does not imply that neighboring owners are deprived of the right to exercise any legal action they deem appropriate against the proponents, to protect their properties and claim compensation for damages caused to them due to demolition works hereby authorized.

6. The proponent should coordinate with the relevant authorities for the disposal of solid waste.

7. It is the responsibility of the proponent to notify in advance to the following agencies of any interference of transit or services the construction works can cause: Electric Power Authority (PREPA). Aqueduct and Sewer Authority (PRASA), Dept. of Transportation, Highways and Transportation Authority. Puerto Rico Police, Environmental Quality Board, Telecommunications Regulatory Board, Civil Defense, Municipality where the construction will be held, Neighboring owners, and Institute of Puerto Rican Culture.

Any party adversely affected by an action, final determination or resolution may resort to the Reviewing Board and request an administrative review within the jurisdictional term of twenty (20) days as of the filing in the record of the case. a copy of the notice of such action, final determination or resolution. Once the request for administrative review is filed, the Management Office, the Authorized Professional. the Adjudicatory Board or the Autonomous Municipality with I to V granted hierarchy shall forward a certified copy of the record of the case to the Reviewing Board within ten (10) calendar days as of the filing of the review.

The adversely affected party shall send a copy of the request for administrative review to the Management Office, the Adjudicatory Board, the Autonomous Municipalities with I to V granted hierarchy, or the Authorized Professional, as applicable, the parties. and any authorized interveners within forty-eight (48) hours after filing the recourse for administrative review set forth in Section 12.1 of the Puerto Rico Permit Process Reform Act. This requirement is jurisdictional in nature. In such writ for review, the appellant shall certify to the Reviewing Board that it complies with said requirement. T notice may be made by mail or any other electronic means as established in the Bylaws

Signaturel Seal

Issue date

2910412012

Ing. Edwin Irizarry Cuso, J.D
DIRECTOR EJECUTIVO

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Notification to the Coordination Centre of Excavations and Demolitions (CCED) of the Public Service Commission.

On April 28, 2012, jose rivera requested a Demolition Permit with case number 2012-009772-PDE-05800, for a tract of land located in:

Municipality: Peñuelas

Ud. o Km: KM. 19.1

Sector: EL PUEBLITO

Apt./Suite No:

Ward: Tallaboa Poniente

Road or Street: CARRETERA 127

The case file is attached to this notice ior its due evaluation and processing

As required, the CCED will notify the owners of the Utilities about the demolition notice within a period not exceeding one (1) day of receipt of such request. Also, if duly notified by the proposer, the CCED will grant additional time to that given in the original certification, taking into consideration that no more than two (2) extension by notice will be granted.

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Homeca Recycling Center

Disposal Register

Phase 1

Project Name: Old PR Olefins Dismantling

EQB Permit: PG-ASB-57-09-11-0112-RC From : 9/28/10

Landfill for Disposal: Allied Waste of Ponce To: 9/27/11

Approval Number: 4217107974

Date	Transporter	Manifest #	Cubic Yards	Manifest Copy
ACM generated was stored for disposal in the second phase				

Phase 2

Project Name: Old PR Olefins Dismantling

EQB Permit: PG-ASB-57-09-11-0112-RC From: 9/30/11

Landfill for Disposal: Allied Waste of Ponce To: 9/30/12

Approval Number: 4217107974

	Date	Transporter	Manifest #	Cubic Yards	Manifest Copy
1	12/09/11	Envirorecycling	04996	40.00	Included
2	12/14/11	Envirorecycling	04989	40.00	Included
3	12/16/11	Envirorecycling	04971	40.00	Included
4	12/16/11	Envirorecycling	04970	30.00	Included
5	12/21/11	Envirorecycling	04972	40.00	Included
6	12/21/11	Envirorecycling	04973	40.00	Included
7	01/03/12	Envirorecycling	04974	40.00	Included
8	01/03/12	Envirorecycling	04975	40.00	Included
9	01/04/12	Envirorecycling	04976	40.00	Included
10	01/09/12	Envirorecycling	04977	40.00	Included
11	01/09/12	Envirorecycling	04978	40.00	Included
12	01/12/12	Envirorecycling	04979	40.00	Included
13	01/12/12	Envirorecycling	04980	40.00	Included
14	01/12/12	Envirorecycling	04981	40.00	Included
15	01/25/12	Envirorecycling	04982	40.00	Included
16	01/27/12	Envirorecycling	04983	40.00	Included
17	01/24/12	Envirorecycling	04984	40.00	Included
18	02/02/12	Envirorecycling	04985	40.00	Included
19	02/02/12	Envirorecycling	04986	40.00	Included
20	2/17/12	Envirorecycling	04988	40.00	Included
21	2/17/12	Envirorecycling	15615	40.00	Included
22	2/24/12	Envirorecycling	15616	40.00	Included
23	2/24/12	Envirorecycling	15617	40.00	Included
24	03/06/12	Envirorecycling	15618	40.00	Included
25	03/06/12	Envirorecycling	15619	40.00	Included
26	03/07/12	Envirorecycling	15620	40.00	Included
27	03/07/12	Envirorecycling	15621	40.00	Included
28	03/07/12	Envirorecycling	15622	40.00	Included

Homeca Recycling Center

Disposal Register

29	03/08/12	Enviorecycling	15623	40.00	Included
30	03/03/12	Enviorecycling	15624	40.00	Included
31	03/03/12	Enviorecycling	15625	40.00	Included
32	03/03/12	Enviorecycling	15626	40.00	Included
33	03/22/12	Enviorecycling	15627	40.00	Included
34	03/22/12	Enviorecycling	15628	40.00	Included
35	03/22/12	Enviorecycling	15629	40.00	Included
36	03/30/12	Enviorecycling	15630	40.00	Included
37	03/30/12	Enviorecycling	15631	40.00	Included
38	04/05/12	Enviorecycling	15632	40.00	Included
39	04/05/12	Enviorecycling	15633	40.00	Included
40	04/05/12	Enviorecycling	15634	40.00	Included
41	04/12/12	Enviorecycling	15635	40.00	Included
42	04/12/12	Enviorecycling	15636	40.00	Included
43	04/21/12	Enviorecycling	15637	40.00	Included
44	04/25/12	Enviorecycling	19653	40.00	Included
45	04/25/12	Enviorecycling	19654	40.00	Included
46	04/25/12	Enviorecycling	19655	40.00	Included
47	5/18/12	Enviorecycling	19670	40.00	Included
48	5/18/12	Enviorecycling	19351	40.00	Included
49	5/22/12	Enviorecycling	19352	40.00	Included
50	5/22/12	Enviorecycling	19353	40.00	Included
51	5/22/12	Enviorecycling	19354	40.00	Included
52	5/25/12	Enviorecycling	19355	40.00	Included
53	5/25/12	Enviorecycling	19356	40.00	Included
54	5/25/12	Enviorecycling	19357	40.00	Included
55	5/31/12	Enviorecycling	19358	40.00	Included
56	5/31/12	Enviorecycling	19359	40.00	Included
57	5/31/12	Enviorecycling	17164	40.00	Included
58	05/02/12	Enviorecycling	19656	40.00	Included
59	05/02/12	Enviorecycling	19657	40.00	Included
60	05/02/12	Enviorecycling	19658	40.00	Included
61	05/04/12	Enviorecycling	19659	40.00	Included
62	05/04/12	Enviorecycling	19660	40.00	Included
63	05/09/12	Enviorecycling	19661	40.00	Included
64	05/09/12	Enviorecycling	19662	40.00	Included
65	05/09/12	Enviorecycling	19663	40.00	Included
66	05/09/12	Enviorecycling	19664	40.00	Included
67	05/11/12	Enviorecycling	19665	40.00	Included
68	05/11/12	Enviorecycling	19666	40.00	Included
69	05/11/12	Enviorecycling	19667	40.00	Included
70	05/15/12	Enviorecycling	19668	40.00	Included
71	05/15/12	Enviorecycling	19669	40.00	Included
72	05/08/12	Enviorecycling	19671	40.00	Included
73	06/04/12	Enviorecycling	17163	40.00	Included
74	06/04/12	Enviorecycling	17162	40.00	Included
75	06/04/12	Enviorecycling	17161	40.00	Included
76	06/04/12	Enviorecycling	17154	40.00	Included
77	07/03/12	Enviorecycling	17155	40.00	Included

Homeca Recycling Center

Disposal Register

78	07/03/12	Envirorecycling	17156	40.00	Included
79	07/03/12	Envirorecycling	17157	40.00	Included
80	07/13/12	Envirorecycling	17158	40.00	Included
81	07/13/12	Envirorecycling	17160	40.00	Included
82		Envirorecycling	25596	40.00	
				3,270.00	

Phase **3**

Project Name: Old PR Olefins Dismantling

EQB Permit: PG-ASB-57-09-11-0112-RC From 12/11/12

Landfill for Disposal: Allied Waste of Ponce To 12/11/14

Approval Number: 4217107974

	Date	**Transporter**	Manifest#	Cubic Yards	Manifest **Copy**
83	02/11/13	Envirorecycling	25598	40.00	Included
84	02/19/13	Envirorecycling	25599	40.00	Included
85	03/05/13	Envirorecycling	26412	40.00	Included
86	03/15/13	Envirorecycling	04990	40.00	Included
87	04/15/13	Envirorecycling	04991	40.00	Included
88	04/30/13	Envirorecycling	04992	40.00	Included
89	04/30/14	Envirorecycling	04995	40.00	Included
				280.00	
				3,550.00	

NPDES General Permit for Stormwater Discharges From Construction Activities

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National Pollutant Discharge Elimination System
General Permit for Discharges from
Large and Small Construction Activities

In compliance with the provisions of the Clean Water Act, 33 U.S.C. §1251 et. seq., (hereafter CWA or the Act), as amended by the Water Quality Act of 1987, P.L. 100-4, operators of large and small construction activities that are described in Part 1.3 of this National Pollutant Discharge Elimination System (NPDES) general permit, except for those activities excluded from authorization of discharge in Part 1.3.C of this permit are authorized to discharge pollutants to waters of the United States in accordance with the conditions and requirements set forth herein. Permit coverage is required from the "commencement of construction activities" until "final stabilization" as defined in Appendix A.

This permit shall become effective on June 30, 2008.

This permit and the authorization to discharge shall expire at midnight, February 15, 2012.

Signed:

Curt Spalding. Regional Administrator
EPA Region 1

Barbara A. Finazzo, Director, Division of Environmental Planning and Protection
EPA Region 2

Carl-Axel P. Soderberg, Division Director, Caribbean Environmental Protection Division
EPA Region 2

Jon M. Capacasa, Director, Water Protection Division
EPA Region 3

Timothy C. Henry, Associate Director, Water Division
EPA Region 5

Miguel I. Flores, Director, Water Quality Protection Division
EPA Region 6

William A. Spratlin, Director, Water, Wetlands and Pesticides Division
EPA Region 7

Stephen S. Tuber, Assistant Regional Administrator, Office of Partnerships & Regulatory Assistance
EPA Region 8

Alexis Strauss, Director, Water Division
EPA Region 9

Michael Bussell, Director, Office of Water and Watersheds
EPA Region 10

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The signatures are for the permit conditions in Parts 1 through 10 and Appendices A through G, and for any additional conditions which apply to facilities located in the corresponding state, Indian country, or other area.

PART 1: COVERAGE UNDER THIS PERMIT

1.1 Introduction

This Construction General Permit (CGP) authorizes stormwater discharges from large and small construction activities that result in a total land disturbance of equal to or greater than one acre, where those discharges enter surface waters of the United States or a municipal separate storm sewer system (MS4) leading to surface waters of the United States subject to the conditions set forth in this permit. This permit also authorizes stormwater discharges from any other construction activity designated by EPA where EPA makes that designation based on the potential for contribution to an excursion of a water quality standard or for significant contribution of pollutants to waters of the United States. This permit replaces the permit issued in 2003 (68 FR 39087, July 1, 2003), including the modification made to that permit in 2004 (69 FR 76743, December 22, 2004).

This permit is presented in a reader-friendly, plain language format. This permit uses the terms "you" and "your" to identify the person(s) who owns or operates a "facility" or "activity" as defined in Appendix A and who must comply with the conditions of this permit. This format should allow you, the permittee and operator of a large or small construction activity, to easily locate and understand applicable requirements.

The goal of this permit is to minimize the discharge of stormwater pollutants from construction activity.

1.2 Permit Area

If your large or small construction activity is located within the areas listed in Appendix B, you may be eligible to obtain coverage under this permit. Permit coverage is actually provided by legally separate and distinctly numbered permits covering each of the areas listed in Appendix B.

1.3 Eligibility

Permit eligibility is limited to discharges from "large" and "small" construction activity, and to "new projects" and "unpermitted ongoing projects," as defined in Appendix A or as otherwise designated by EPA. This general permit contains eligibility restrictions, as well as permit conditions and requirements. You may have to take certain actions to be eligible for coverage under this permit. In such cases, you must continue to satisfy those eligibility provisions to maintain permit authorization. If you do not meet the requirements that are a pre-condition to eligibility, then resulting discharges constitute unpermitted discharges. By contrast, if you eligible for coverage under this permit and do not comply with the requirements of the general permit, you may be in violation of the general permit for your otherwise eligible discharges.

A. Allowable Stormwater Discharges

Subject to compliance with the terms and conditions of this permit, you are authorized to discharge pollutants in:

1. Stormwater discharges associated with large and small construction activity from "new projects" and "unpermitted ongoing projects" as defined in Appendix A;
2. Stormwater discharges designated by EPA as needing a stormwater permit under 40 CFR §122.26(a)(1)(v) or §122.26(b)(15)(ii);
3. Discharges from support activities (e.g., concrete or asphalt batch plants, equipment staging yards, material storage areas, excavated material disposal areas, borrow areas) provided:
   a. The support activity is directly related to the construction site required to have NPDES permit coverage for discharges of stormwater associated with construction activity;
   b. The support activity is not a commercial operation serving multiple unrelated construction projects by different operators, and does not operate beyond the completion of the construction activity at the last construction project it supports; and
   c. Pollutant discharges from support activity areas are minimized in compliance with Part 3.1.G; and
4. Discharges composed of allowable discharges listed in 1.3.A and 1.3.B commingled with a discharge authorized by a different NPDES permit and/or a discharge that does not require NPDES permit authorization.

B. Allowable Non-Stormwater Discharges

You are authorized for the following non-stormwater discharges, provided the non-stormwater component of the discharge is in compliance with Part 5.4 (Non-Stormwater Discharges):

1. Discharges from fire-fighting activities;
2. Fire hydrant flushings;
3. Waters used to wash vehicles where detergents are not used;
4. Water used to control dust in accordance with Part 3.1.B;
5. Potable water including uncontaminated water line flushings;
6. Routine external building wash down that does not use detergents;
7. Pavement wash waters where spills or leaks of toxic or hazardous materials have not occurred (unless all spilled material has been removed) and where detergents are not used;
8. Uncontaminated air conditioning or compressor condensate;
9. Uncontaminated ground water or spring water;
10. Foundation or footing drains where flows are not contaminated with process materials such as solvents;
11. Uncontaminated excavation dewatering;
12. Landscape irrigation.

C. Limitations on Coverage

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1. This permit does not authorize post-construction discharges that originate from the site after construction activities have been completed and the site has achieved final stabilization, including any temporary support activity. Post-construction stormwater discharges from industrial sites may need to be covered by a separate NPDES permit.
2. This permit does not authorize discharges mixed with non-stormwater. This exclusion does not apply to discharges identified in Part 1.3.B, provided the discharges are in compliance with Part 5.4 (Non-Stormwater Discharges).
3. This permit does not authorize stormwater discharges associated with construction activity that have been covered under an individual permit or required to obtain coverage under an alternative general permit in accordance with Part 2.6.
4. This permit does not authorize discharges that EPA, prior to authorization under this permit, determines will cause, have the reasonable potential to cause, or contribute to an excursion above any applicable water quality standard. Where such a determination is made prior to authorization, EPA may notify you that an individual permit application is necessary in accordance with Part 2.6. However, EPA may authorize your coverage under this permit after you have included appropriate controls and implementation procedures in your permit designed to bring your discharge into compliance with water quality standards.
5. *Discharging into Receiving Waters With an Approved or Established Total Maximum Daily Load Analysis*
   a. You are not eligible for coverage under this permit for discharges of pollutants of concern to waters for which there is a total maximum daily load (TMDL) established or approved by EPA unless implement measures or controls that are consistent with the assumptions and requirements of such TMDL. To be eligible for coverage under this general permit, you must implement conditions applicable to your discharges necessary for consistency with the assumptions and requirements of such TMDL. If a specific wasteload allocation has been established that would apply to your discharge, you must implement necessary steps to meet that allocation.
   b. In a situation where an EPA-approved or established TMDL has specified a general wasteload allocation applicable to construction stormwater discharges, but no specific requirements for construction sites have been identified in the TMDL, you should consult with the State or Federal TMDL authority to confirm that meeting the effluent limits in Part 3 of this permit will be consistent with the approved TMDL. Where an EPA-approved or established TMDL has not specified a wasteload allocation applicable to construction stormwater discharges, but has not specifically excluded these discharges, compliance with the effluent limits in Part 3 of this permit will generally be assumed to be consistent with the approved TMDL. If the EPA-approved or established TMDL specifically precludes such discharges, the operator is not eligible for coverage under the CGP.
6. *Endangered and Threatened Species and Critical Habitat Protection*
   a. Coverage under this permit is available only if your stormwater discharges, allowable non-stormwater discharges, and stormwater discharge-related

activities, as defined in Appendix A, are not likely to jeopardize the continued existence of any species that are federally-listed as endangered or threatened ("listed") under the Endangered Species Act (ESA) or result in the adverse modification or destruction of habitat that is federally-designated as critical under the ESA ("critical habitat").

b. You are not eligible to discharge if the stormwater discharges, allowable non-stormwater discharges, or stormwater discharge-related activities would cause a prohibited "take" of federally-listed endangered or threatened species (as defined under section 3 of the ESA and 50 CFR 17.3), unless such takes are authorized under sections 7 or 10 of the ESA.

c. Determining Eligibility: You must use the process in Appendix C (ESA Review Procedures) to determine eligibility *PRIOR* to submittal of the Notice of Intent (NOI). You must meet one or more of the following six criteria (A-F) for the entire term of coverage under the permit:

Criterion A. No federally-listed threatened or endangered species or their designated critical habitat are in the project area as defined in Appendix C; or

Criterion B. Formal consultation with the Fish and Wildlife Service and/or the National Marine Fisheries Service under section 7 of the ESA has been concluded and that consultation:

i. Addressed the effects of the project's stormwater discharges, allowable non-stormwater discharges, and stormwater discharge-related activities on federally-listed threatened or endangered species and federally-designated critical habitat, and

ii. The consultation resulted in either:

a. Biological opinion finding no jeopardy to federally-listed species or destruction/adverse modification of federally-designated critical habitat, or

b. Written concurrence from the Service(s) with a finding that the stormwater discharges, allowable non-stormwater discharges, and stormwater discharge-related activities are not likely to adversely affect federally-listed species or federally-designated critical habitat; or

Criterion C. Informal consultation with the Fish and Wildlife Service and/or the National Marine Fisheries Service under section 7 of the ESA has been concluded and that consultation:

i. Addressed the effects of the project's stormwater discharges, allowable non-stormwater discharges, and stormwater discharge-related activities on federally-listed threatened or endangered species and federally-designated critical habitat, and

ii. The consultation resulted in either:

a. Biological opinion finding no jeopardy to federally-listed species or destruction/adverse modification of federally-designated critical habitat, or

b. Written concurrence from the Service(s) with a finding that the stormwater discharges, allowable non-stormwater discharges, and stormwater discharge-related activities are not likely to adversely affect federally-listed species or federally-designated critical habitat; or

Criterion D. The construction activities are authorized through the issuance of a permit under section 10 of the ESA, and that authorization addresses the effects of the stormwater discharges, allowable non-stormwater discharges, and stormwater discharge-related activities on federally-listed species and federally-designated critical habitat; or

Criterion E. Stormwater discharges, allowable non-stormwater discharges, and stormwater discharge-related activities are not likely to adversely affect any federally-listed threatened or endangered species or result in the destruction or adverse modification of federally-designated critical habitat; or

Criterion F. The project's stormwater discharges, allowable non-stormwater discharges, and stormwater discharge-related activities were already addressed in another operator's valid certification of eligibility under Criteria A-E which included your construction activities and there is no reason to believe that federally-listed species or federally-designated critical habitat not considered in the prior certification may be present or located in the project area. By certifying eligibility under this criterion, you agree to comply with any measures or controls upon which the other operator's certification was based.

You must comply with any applicable terms, conditions, or other requirements developed in the process of meeting the eligibility requirements of the criteria in this section to remain eligible for coverage under this permit.

7. *Historic Properties*

   [Reserved]

   You are reminded that you must comply with applicable state, tribal and local laws concerning the protection of historic properties and places.

1.4 Waivers for Certain Small Construction Activities

Three scenarios exist under which small construction activities (see definition in Appendix A) may be waived from the NPDES permitting requirements detailed in this general permit. These exemptions are predicated on certain criteria being met and proper notification procedures being followed. Details of the waiver options and procedures for requesting a waiver are provided in Appendix D.

PART 2: AUTHORIZATION FOR DISCHARGES OF STORMWATER FROM CONSTRUCTION ACTIVITY

2.1 How to Obtain Authorization

To obtain coverage under this general permit, you, the operator, must prepare and submit a complete and accurate Notice of Intent (NOI), as described in this Part. Discharges are not authorized if your NOI is incomplete or inaccurate or if you were never eligible for permit coverage.

2.2 How to Submit Your NOI

You must either use EPA's electronic NOI system (accessible at www.epa.gov/npdes/eNOI or use a paper form (included in Appendix E) and then submit that paper form to:

For Regular U.S. Mail Delivery:
EPA Stormwater Notice Processing Center
Mail Code 4203M
U.S. EPA
1200 Pennsylvania Avenue, NW
Washington, DC 20460

For Overnight/Express Mail Delivery:
EPA Stormwater Notice Processing Center
Room 7420
U.S. EPA
1201 Constitution Avenue, NW
Washington, DC 20004

2.3 Authorization to Discharge Date

You are authorized to discharge stormwater from construction activities under the terms and conditions of this permit seven (7) calendar days after acknowledgment of receipt of your complete NOI is posted on EPA's NPDES website http://www.epa.gov/npdes/stormwater/cgp. The exception to this 7-day timeframe is if EPA delays your authorization based on eligibility considerations of Part 1.3 (e.g., ESA concerns). Under this circumstance, you are not authorized for coverage under this permit until you receive notice from EPA of your eligibility.

2.4 Submission Deadlines

A. *New Projects:* To obtain coverage under this permit, you must submit a complete and accurate NOI and be authorized consistent with Part 2.3 prior to your commencement of construction activities.

B. *Permitted Ongoing Projects:* Permitted ongoing projects are not eligible for coverage under this permit. If you previously received authorization to discharge for your project under the 2003 CGP, your authorization will be automatically continued under that permit until the expiration of this permit and the issuance of a new CGP, or the termination of coverage by you under the 2003 CGP, whichever is earlier. Note: If you are an operator of a permitted ongoing project and you transfer ownership of the project, or a portion thereof, to a different operator, that operator will be required to submit a complete and accurate NOI for a new project in accordance with Part 2.2.

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C. *Unpermitted Ongoing Projects:* If you previously did not receive authorization to discharge for your project under the 2003 CGP and you wish to obtain coverage under this permit, you must submit an NOI within 90 days of the issuance date of this permit.

D. *Late Notifications:* Operators are not prohibited from submitting NOIs after initiating clearing, grading, excavation activities, or other construction activities. When a late NOI is submitted, authorization for discharges occurs consistent with Part 2.3. The Agency reserves the right to take enforcement action for any unpermitted discharges that occur between the commencement of construction and discharge authorization.

2.5 Continuation of the Expired General Permit

If this permit is not reissued or replaced prior to the expiration date, it will be administratively continued in accordance with the Administrative Procedure Act and remain in force and effect. If you were granted permit coverage prior to the expiration date, you will automatically remain covered by the continued permit until the earliest of:

A. Reissuance or replacement of this permit, at which time you must comply with the conditions of the new permit to maintain authorization to discharge; or

B. Your submittal of a Notice of Termination; or

C. Issuance of an individual permit for the project's discharges; or

D. A formal permit decision by EPA to not reissue this general permit, at which time you must seek coverage under an alternative general permit or an individual permit.

2.6 Requiring Coverage Under an Individual Permit or an Alternative General Permit

A. EPA may require you to apply for and/or obtain either an individual NPDES permit or coverage under an alternative NPDES general permit. Any interested person may petition EPA to take action under this paragraph. If EPA requires you to apply for an individual NPDES permit, EPA will notify you in writing that a permit application is required. This notification will include a brief statement of the reasons for this decision and an application form. In addition, if you are an existing permittee covered under this permit, the notice will set a deadline to file the application, and will include a statement that on the effective date of issuance or denial of the individual NPDES permit or the coverage or denial of coverage under the alternative general permit as it applies to you, coverage under this general permit will automatically terminate. Applications must be submitted to EPA at the applicable EPA Regional offices listed in Appendix B of this permit. EPA may grant additional time to submit the application upon your request. If you are covered under this permit and you fail to submit in a timely manner an individual NPDES permit application as required by EPA, then the applicability of this permit to you is automatically terminated at the end of the day specified by EPA as the deadline for application submittal.

B. You may request to be excluded from coverage under this general permit by applying for an individual permit. In such a case, you must submit an individual application in accordance with the requirements of 40 CFR §122.26(c)(1)(ii), with reasons supporting the request, to EPA at the applicable EPA Regional office listed in Appendix B of this permit. The request may be granted by issuance of an individual permit or coverage under an alternative general permit if your reasons are adequate to support the request.

C. When an individual NPDES permit is issued to you (as an entity that is otherwise subject to this permit), or you are authorized to discharge under an alternative NPDES general permit, the applicability of this permit to you is automatically terminated on the effective date of the individual permit or the date of authorization of coverage under the alternative general permit, whichever the case may be. If you (as an entity that is otherwise subject to this permit) are denied an individual NPDES permit or an alternative NPDES general permit, the applicability of this permit to you is automatically terminated on the date of such denial, unless otherwise specified by EPA.

PART 3: EFFLUENT LIMITS

This section includes technology-based and water quality-based effluent limits that apply to all dischargers, unless otherwise specified. You must select, install, and maintain control measures (e.g., Best Management Practices ("BMPs"), controls, practices, etc.) for each major construction activity, identified in your Part 5 project description, to meet these effluent limits. All control measures must be properly selected, installed, and maintained in accordance with any relevant manufacturer specifications and good engineering practices. You must implement the control measures from commencement of construction activity until final stabilization is complete.

The term "minimize" as used in Part 3 means reduce and/or eliminate to the extent achievable using control measures that are technologically available and economically practicable and achievable in light of best industry practice.

3.1 Effluent Limits to Reduce Pollutants in Stormwater Discharges

You must implement control measures to minimize pollutants in stormwater discharges.

A. ***Sediment Controls:*** You must implement the following, where applicable:

1. Sediment Basins: For common drainage locations that serve an area with 10 or more acres disturbed at one time, a temporary (or permanent) sediment basin that provides storage for a calculated volume of runoff from the drainage area from a 2-year, 24-hour storm, or equivalent control measures, must be provided where attainable until final stabilization of the site. Where no such calculation has been performed, a temporary (or permanent) sediment basin providing 3,600 cubic feet of storage per acre drained, or equivalent control measures, must be provided where attainable until final stabilization of the site. When computing the number

of acres draining into a common location, it is not necessary to include flows from offsite areas and flows from on-site areas that are either undisturbed or have undergone final stabilization where such flows are diverted around both the disturbed area and the sediment basin. In determining whether installing a sediment basin is attainable, the operator may consider factors such as site soils, slope, available area on-site, etc. In any event, the operator must consider public safety, especially as it relates to children, as a design factor for the sediment basin, and alternative sediment controls must be used where site limitations would preclude a safe design.

2. For drainage locations which serve 10 or more disturbed acres at one time and where a temporary sediment basin or equivalent controls is not attainable, smaller sediment basins and/or sediment traps should be used. At a minimum, silt fences, vegetative buffer strips, or equivalent sediment controls are required for all down slope boundaries (and for those side slope boundaries deemed appropriate as dictated by individual site conditions).

3. For drainage locations serving less than 10 acres, smaller sediment basins and/or sediment traps should be used. At a minimum, silt fences, vegetative buffer strips, or equivalent sediment controls are required for all down slope boundaries (and for those side slope boundaries deemed appropriate as dictated by individual site conditions) of the construction area unless a sediment basin providing storage for a calculated volume of runoff from a 2-year, 24-hour storm or 3,600 cubic feet of storage per acre drained is provided.

B. ***Off-Site Sediment Tracking and Dust Control:*** You must minimize off-site vehicle tracking of sediments onto paved surfaces and the generation of dust. If sediment escapes the construction site, off-site accumulations of sediment must be removed at a frequency sufficient to minimize off-site impacts.

C. ***Runoff Management:*** You must divert flows from exposed soils, retain/detain flows or otherwise minimize runoff and the discharge of pollutants from exposed areas of the site. You must avoid placement of structural practices in floodplains to the degree technologically and economically practicable and achievable.

D. ***Erosive Velocity Control:*** You must place velocity dissipation devices at discharge locations and along the length of any outfall channel to provide a non-erosive flow velocity from the structure to a water course so that the natural physical and biological characteristics and functions are maintained and protected (e.g., no significant changes in the hydrological regime of the receiving water).

E. ***Post-Construction Stormwater Management:*** You must comply with any applicable federal, local, state, or tribal requirements regarding the design and installation of post-construction stormwater controls. Structural measures should be placed on upland soils to the degree practicable and achievable.

F. ***Construction and Waste Materials:*** You must:
   1. Prevent the discharge of solid materials, including building materials, to waters of the United States, except as authorized by a permit issued under section 404 of the CWA;
   2. Minimize exposure of construction and waste materials to stormwater, and the occurrence of spills, through the use of storage practices, prevention and response practices, and other controls;
   3. Prevent litter, construction debris, and construction chemicals (e.g., diesel fuel, hydraulic fluids, and other petroleum products) that could be exposed to stormwater from becoming a pollutant source in stormwater discharges.

G. ***Non-Construction Wastes:*** You must minimize pollutant discharges from areas other than construction (including stormwater discharges from dedicated asphalt plants and dedicated concrete plants).

H. ***Erosion Control and Stabilization:***
   1. ***General Requirements:*** You must stabilize the site. You must ensure that existing vegetation is preserved where possible and that disturbed portions of the site are stabilized. You should avoid using impervious surfaces for stabilization.
   2. ***Initiation Deadlines:*** You must initiate stabilization measures, except as provided below, as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 14 days after the construction activity in that portion of the site has temporarily or permanently ceased.
      i. Where stabilization by the 14th day is precluded by snow cover or frozen ground conditions, stabilization measures must be initiated as soon as practicable.
      ii. Where construction activity on a portion of the site is temporarily ceased, and earth disturbing activities will be resumed within 14 days, temporary stabilization measures do not have to be initiated on that portion of the site.
      iii. In arid, semiarid, and drought-stricken areas where initiating perennial vegetative stabilization measures is not possible within 14 days after construction activity has temporarily or permanently ceased, final vegetative stabilization measures must be initiated as soon as practicable.

I. ***Spills / Releases in Excess of Reportable Quantities:*** You are not authorized to discharge hazardous substances or oil resulting from an on-site spill. This permit does not relieve you of the federal reporting requirements of 40 CFR Part 110, 40 CFR Part 117 and 40 CFR Part 302 relating to spills or other releases of oils or hazardous substances.

Where a release containing a hazardous substance or oil in an amount equal to or in excess of a reportable quantity established under either 40 CFR Part 110, 40 CFR Part 117 or 40 CFR Part 302, occurs during a 24-hour period:

- you must provide notice to the National Response Center (NRC) (800–424–8802; in the Washington, DC, metropolitan area call 202–267–2675) in accordance with the requirements of 40 CFR Part 110, 40 CFR Part 117 and 40 CFR Part 302 as soon as site staff have knowledge of the discharge; and
- you must, within 7 calendar days of knowledge of the release, provide a description of the release, the circumstances leading to the release, and the date of the release. You must also implement measures to prevent the reoccurrence of such releases and to respond to such releases.

3.2 Effluent Limits to Reduce Pollutants in Non-Stormwater Discharges

You must minimize any non-stormwater discharges authorized by this permit.

3.3 Effluent Limits Related to Endangered Species

You must protect federally-listed endangered or threatened species, or federally-designated critical habitat to maintain eligibility under Part 1.3.C.6.

3.4 Attainment of Water Quality Standards

A. You must select, install, implement and maintain control measures at your construction site that minimize pollutants in the discharge as necessary to meet applicable water quality standards. In general, except in situations explained in Part 3.4.B below, your stormwater controls developed, implemented, and updated consistent with the other provisions of Part 3 are considered as stringent as necessary to ensure that your discharges do not cause or contribute to an excursion above any applicable water quality standard.

B. At any time after authorization, EPA may determine that your stormwater discharges may cause, have reasonable potential to cause, or contribute to an excursion above any applicable water quality standard. If such a determination is made, EPA will require you to:

   i. Modify your stormwater controls in accordance with Part 3.6 to address adequately the identified water quality concerns;
   ii. Submit valid and verifiable data and information that are representative of ambient conditions and indicate that the receiving water is attaining water quality standards; or
   iii. Cease discharges of pollutants from construction activity and submit an individual permit application according to Part 2.6.

All written responses required under this part must include a signed certification consistent with Appendix G, Section 11.

3.5 Consistency with Total Maximum Daily Loads

If you are discharging into a water with an EPA established or approved TMDL, you must implement measures to ensure that your discharge of pollutants from the site is consistent with the assumptions and requirements of the EPA-established or approved TMDL, including any specific wasteload allocation that has been established that would

apply to your discharge. See Part 1.3.C.5 for further information on determining permit eligibility related to TMDLs.

3.6 Maintenance of Control Measures

A. You must maintain all control measures and other protective measures in effective operating condition. If site inspections required by Part 4 identify BMPs that are not operating effectively, you must perform maintenance as soon as possible and before the next storm event whenever practicable to maintain the continued effectiveness of stormwater controls.

B. If existing BMPs need to be modified or if additional BMPs are necessary for any reason, you must complete implementation before the next storm event whenever practicable. If implementation before the next storm event is impracticable, you must implement alternative BMPs as soon as possible.

C. You must remove sediment from sediment traps or sedimentation ponds when design capacity has been reduced by 50 percent.

D. You must remove trapped sediment from a silt fence before the deposit reaches 50 percent of the above-ground fence height (or before it reaches a lower height based on manufacturer's specifications).

3.7 Training of Employees

You must train employees and subcontractors as necessary to make them aware of the applicable control measures implemented at the site so that they follow applicable procedures.

3.8 Applicable State, Tribal, or Local Programs

You must ensure that the stormwater controls implemented at your site are consistent with all applicable federal, state, tribal, or local requirements for soil and erosion control and stormwater management.

PART 4: INSPECTIONS

A. ***Inspection Frequency:*** You must conduct inspections in accordance with one of the two schedules listed below. You must specify in your SWPPP which schedule you will be following.
   1. At least once every 7 calendar days, OR
   2. At least once every 14 calendar days and within 24 hours of the end of a storm event of 0.5 inches or greater.

B. ***Case-by-Case Reductions in Inspection Frequency:*** You may reduce your inspection frequency to at least once every month if:
   1. The entire site is temporarily stabilized,
   2. Runoff is unlikely due to winter conditions (e.g., site is covered with snow, ice, or the ground is frozen), or

3. Construction is occurring during seasonal arid periods in arid areas and semi-arid areas.

C. ***Inspection Waiver for Frozen Conditions:*** A waiver of the inspection requirements is available until one month before thawing conditions are expected to result in a discharge if all of the following requirements are met:
   1. The project is located in an area where frozen conditions are anticipated to continue for extended periods of time (i.e., more than one month);
   2. Land disturbance activities have been suspended; and
   3. The beginning and ending dates of the waiver period are documented in the SWPPP.

D. ***Qualified Personnel:*** Inspections must be conducted by qualified personnel (provided by the operator or cooperatively by multiple operators). "Qualified personnel" means a person knowledgeable in the principles and practice of erosion and sediment controls who possesses the skills to assess conditions at the construction site that could impact stormwater quality and to assess the effectiveness of any sediment and erosion control measures selected to control the quality of stormwater discharges from the construction activity.

E. ***Scope of Inspections:*** Inspections must include all areas of the site disturbed by construction activity and areas used for storage of materials that are exposed to precipitation. Inspectors must look for evidence of, or the potential for, pollutants entering the stormwater conveyance system. Sedimentation and erosion control measures must be observed to ensure proper operation. Discharge locations must be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to waters of the United States, where accessible. Where discharge locations are inaccessible, nearby downstream locations must be inspected to the extent that such inspections are practicable. Locations where vehicles enter or exit the site must be inspected for evidence of off-site sediment tracking.

F. ***Reductions in Scope of Inspections for Stabilized Areas:*** Once a definable area has been finally stabilized, no further inspection requirements apply to that portion of the site (e.g., earth-disturbing activities around one of three buildings in a complex are done and the area is finally stabilized, one mile of a roadway or pipeline project is done and finally stabilized, etc).

G. ***Utility Line Inspections:*** Utility line installation, pipeline construction, and other examples of long, narrow, linear construction activities may limit the access of inspection personnel to the areas described in Part 4.E above. Inspection of these areas could require that vehicles compromise temporarily or even permanently stabilized areas, cause additional disturbance of soils, and increase the potential for erosion. In these circumstances, controls must be inspected on the same frequencies as other construction projects, but representative inspections may be performed. For representative inspections, personnel must inspect controls along the construction site for 0.25 mile above and below each access point where a roadway, undisturbed right-

of-way, or other similar feature intersects the construction site and allows access to the areas described above. The conditions of the controls along each inspected 0.25 mile segment may be considered as representative of the condition of controls along that reach extending from the end of the 0.25 mile segment to either the end of the next 0.25 mile inspected segment, or to the end of the project, whichever occurs first.

H. ***Inspection Report:*** For each inspection required above, you must complete an inspection report. At a minimum, the inspection report must include:
   1. The inspection date;
   2. Names, titles, and qualifications of personnel making the inspection;
   3. Weather information for the period since the last inspection (or since commencement of construction activity if the first inspection) including a best estimate of the beginning of each storm event, duration of each storm event, approximate amount of rainfall for each storm event (in inches), and whether any discharges occurred;
   4. Weather information and a description of any discharges occurring at the time of the inspection;
   5. Location(s) of discharges of sediment or other pollutants from the site;
   6. Location(s) of BMPs that need to be maintained;
   7. Location(s) of BMPs that failed to operate as designed or proved inadequate for a particular location;
   8. Location(s) where additional BMPs are needed that did not exist at the time of inspection; and
   9. Corrective action required including implementation dates.

The inspection report must be signed in accordance with Appendix G, Section 11 of this permit.

PART 5: STORMWATER POLLUTION PREVETNION PLANS (SWPPPs)

5.1 Stormwater Pollution Prevention Plan Framework

You must prepare a SWPPP before submitting your Notice of Intent (NOI) for permit coverage. At least one SWPPP must be developed for each construction project covered by this permit and the stormwater controls implemented at your site must be documented in the SWPPP. If you prepared a SWPPP for coverage under a previous NPDES permit, you must review and update the SWPPP prior to submitting your NOI.

The SWPPP does not contain effluent limitations; the technology and water quality-based effluent limitations are contained in Part 3 of this permit. The SWPPP is intended to document the selection, design, installation, and implementation of control measures that are being used to comply with the effluent limitations set forth in Part 3.

The SWPPP must:

1. Identify all potential sources of pollutants that may reasonably be expected to affect the quality of stormwater discharges from the construction site; and
2. Describe control measures to be used to meet the effluent limits set forth in Part 3.

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5.2 SWPPP Contents: Site and Activity Description

A. ***Construction Site Operators:*** The SWPPP must identify all operators for the project site, and the areas of the site over which each operator has control.

B. ***Nature of Construction Activity:*** The SWPPP briefly must describe the nature of the construction activity, including:
   1. The function of the project (e.g., low density residential, shopping mall, highway, etc.);
   2. The intended sequence and timing of activities that disturb soils at the site;
   3. Estimates of the total area expected to be disturbed by excavation, grading, or other construction activities, including dedicated off-site borrow and fill areas; and
   4. A general location map (e.g., USGS quadrangle map, a portion of a city or county map, or other map) with enough detail to identify the location of the construction site and waters of the United States within one mile of the site.

C. ***Site Map:*** The SWPPP must contain a legible site map, showing the entire site, identifying:
   1. Direction(s) of stormwater flow and approximate slopes anticipated after grading activities;
   2. Areas of soil disturbance and areas that will not be disturbed (or a statement that all areas of the site will be disturbed unless otherwise noted);
   3. Locations of major structural and nonstructural BMPs identified in the SWPPP;
   4. Locations where stabilization practices are expected to occur;
   5. Locations of off-site material, waste, borrow or equipment storage areas;
   6. Locations of all waters of the United States (including wetlands);
   7. Locations where stormwater discharges to a surface water; and
   8. Areas where final stabilization has been accomplished and no further construction-phase permit requirements apply.

D. ***Construction and Waste Materials:*** The SWPPP must include a description of construction and waste materials expected to be stored on-site with updates as appropriate.

E. ***Locations of Other Industrial Stormwater Discharges:*** The SWPPP must describe and identify the location and description of any stormwater discharge associated with industrial activity other than construction at the site. This includes stormwater discharges from dedicated asphalt plants and dedicated concrete plants that are covered by this permit.

5.3 Description of Control Measures to Reduce Pollutant Discharges

A. ***Control Measures:*** The SWPPP must include a description of all control measures that will be implemented to meet the effluent limits in Part 3. For each major activity identified in the project description the SWPPP must clearly document appropriate control measures, the general sequence during the construction process in which the

measures will be implemented, and which operator is responsible for the control measure's implementation.

B. ***Stabilization:*** The SWPPP must include a description of interim and permanent stabilization practices for the site, including a schedule of when the practices will be implemented.

C. ***Post-Authorization Records:*** The following records must be maintained with the SWPPP following authorization under this permit:
   1. Dates when grading activities occur;
   2. Dates when construction activities temporarily or permanently cease on a portion of the site; and
   3. Dates when stabilization measures are initiated.

5.4 Non-Stormwater Discharges

The SWPPP must identify all allowable sources of non-stormwater discharges listed in Part 1.3.B of this permit, except for flows from fire fighting activities that are combined with stormwater discharges associated with construction activity at the site. The SWPPP must also describe the pollution prevention measures used to eliminate or reduce non-stormwater discharges consistent with Part 3.2.

5.5 Documentation of Permit Eligibility Related to Endangered Species

The SWPPP must include documentation supporting a determination of permit eligibility with regard to Endangered Species, including:

A. Information on whether federally-listed endangered or threatened species, or federally-designated critical habitat may be in the project area;

B. Whether such species or critical habitat may be adversely affected by stormwater discharges or stormwater discharge-related activities from the project;

C. Results of the Appendix C listed species and critical habitat screening determinations;

D. Confirmation of delivery of NOI to EPA or to EPA's electronic NOI system. This may include an overnight, express or registered mail receipt acknowledgment; or electronic acknowledgment from EPA's electronic NOI system;

E. Any correspondence for any stage of project planning between the U.S. Fish and Wildlife Service (FWS), EPA, the U.S. National Marine Fisheries Service (NMFS), or others and you regarding listed species and critical habitat, including any notification that delays your authorization to discharge under this permit; and

F. A description of measures necessary to protect federally-listed endangered or threatened species, or federally-designated critical habitat.

5.6 Documentation of Permit Eligibility Related to Total Maximum Daily Loads

The SWPPP must include documentation supporting a determination of permit eligibility with regard to waters that have an EPA-established or approved TMDL, including:

A. Identification of whether your discharge is identified, either specifically or generally, in an EPA-established or approved TMDL and any associated allocations, requirements, and assumptions identified for your discharge;

B. Summaries of consultation with State or Federal TMDL authorities on consistency of SWPPP conditions with the approved TMDL, and

C. Measures taken by you to ensure that your discharge of pollutants from the site is consistent with the assumptions and requirements of the EPA-established or approved TMDL, including any specific wasteload allocation that has been established that would apply to your discharge.

See Part 1.3.C.5 for further information on determining permit eligibility related to TMDLs.

5.7 Copy of Permit Requirements

Copies of this permit and of the signed and certified NOI form that was submitted to EPA must be included in the SWPPP. Also, upon receipt, a copy of the letter from the EPA Stormwater Notice Processing Center notifying you of their receipt of your administratively complete NOI must also be included as a component of the SWPPP.

5.8 Applicable State, Tribal, or Local Programs

The SWPPP must be updated as necessary to reflect any revisions to applicable federal, state, tribal, or local requirements that affect the stormwater controls you implement at your site.

5.9 Inspections

A record of each inspection and of any actions taken in accordance with Part 4 must be retained with the SWPPP for at least three years from the date that permit coverage expires or is terminated. The inspection reports must identify any incidents of non-compliance with the permit conditions. Where a report does not identify any incidents of non-compliance, the report must contain a certification that the construction project or site is in compliance with this permit.

5.10 Maintaining an Updated Plan

The SWPPP must be modified:

A. To reflect modifications to stormwater control measures made in response to a change in design, construction, operation, or maintenance at the construction site that has or could have a significant effect on the discharge of pollutants to the waters of the United States that has not been previously addressed in the SWPPP.

B. If during inspections or investigations by site staff, or by local, state, tribal or federal officials, it is determined that the existing stormwater controls are ineffective in eliminating or significantly minimizing pollutants in stormwater discharges from the construction site.

C. Based on the results of an inspection, as necessary to properly document additional or modified BMPs designed to correct problems identified. Revisions to the SWPPP must be completed within seven (7) calendar days following the inspection.

5.11 Signature, Plan Review and Making Plans Available

A. ***Retention of SWPPP:*** A copy of the SWPPP (including a copy of the permit), NOI, and acknowledgement letter from EPA must be retained at the construction site (or other location easily accessible during normal business hours to EPA, a state, tribal or local agency approving sediment and erosion plans, grading plans, or stormwater management plans; local government officials; the operator of a municipal separate storm sewer receiving discharges from the site; and representatives of the U.S. Fish and Wildlife Service or the National Marine Fisheries Service) from the date of commencement of construction activities to the date of final stabilization. If you have day-to-day operational control over SWPPP implementation, you must have a copy of the SWPPP available at a central location on-site for the use of all those identified as having responsibilities under the SWPPP whenever they are on the construction site. If an on-site location is unavailable to store the SWPPP when no personnel are present, notice of the plan's location must be posted near the main entrance at the construction site.

B. ***Main Entrance Signage:*** A sign or other notice must be posted conspicuously near the main entrance of the construction site. If displaying near the main entrance is infeasible, the notice can be posted in a local public building such as the town hall or public library. The sign or other notice must contain the following information:
   1. A copy of the completed Notice of Intent as submitted to the EPA Stormwater Notice Processing Center; and
   2. If the location of the SWPPP or the name and telephone number of the contact person for scheduling SWPPP viewing times has changed (i.e., is different than that submitted to EPA in the NOI), the current location of the SWPPP and name and telephone number of a contact person for scheduling viewing times.

   For linear projects, the sign or other notice must be posted at a publicly accessible location near the active part of the construction project (e.g., where a pipeline project crosses a public road).

C. ***Availability of SWPPP:*** SWPPPs must be made available upon request by EPA; a state, tribal or local agency approving sediment and erosion plans, grading plans, or stormwater management plans; local government officials; the operator of a municipal separate storm sewer receiving discharges from the site; and representatives of the U.S. Fish and Wildlife Service or the National Marine Fisheries Service to the requestor. The copy of the SWPPP that is required to be kept on-site or

locally available must be made available, in its entirety, to the EPA staff for review and copying at the time of an on-site inspection.

D. ***Signature and Certification:*** All SWPPPs must be signed and certified in accordance with Appendix G, Section 11.

5.12 Requirements for Different Types of Operators

You may meet one or both of the operational control components in the definition of operator found in Appendix A. Part 5.12.C applies to all permittees having control over only a portion of a construction site.

A. If you have operational control over construction plans and specifications, you must ensure that:
   1. The project specifications meet the minimum requirements of this Part and all other applicable permit conditions;
   2. The SWPPP indicates the areas of the project where the operator has operational control over project specifications, including the ability to make modifications in specifications;
   3. All other permittees implementing portions of the SWPPP (or their own SWPPP) who may be impacted by a change to the construction plan are notified of such changes in a timely manner; and
   4. The SWPPP indicates the name of the party(ies) with day-to-day operational control of those activities necessary to ensure compliance with the SWPPP or other permit conditions.

B. If you have operational control over day-to-day activities, you must ensure that:
   1. The SWPPP meets the minimum requirements of this Part and identifies the parties responsible for implementation of control measures identified in the plan;
   2. The SWPPP indicates areas of the project where you have operational control over day-to-day activities;
   3. The SWPPP indicates the name of the party(ies) with operational control over project specifications (including the ability to make modifications in specifications).

C. If you have operational control over only a portion of a larger project (e.g., one of four homebuilders in a subdivision), you are responsible for compliance with all applicable effluent limits, terms, and conditions of this permit as it relates to your activities on your portion of the construction site, including protection of endangered species, critical habitat, and historic properties, and implementation of control measures described in the SWPPP. You must ensure either directly or through coordination with other permittees, that your activities do not render another party's pollutant discharge controls ineffective. You must either implement your portion of a common SWPPP or develop and implement your own SWPPP.
   For more effective coordination of BMPs and opportunities for cost sharing, a cooperative effort by the different operators at a site to prepare and participate in a comprehensive SWPPP is encouraged. Individual operators at a site may, but are not

required to, develop separate SWPPPs that cover only their portion of the project provided reference is made to other operators at the site. In instances where there is more than one SWPPP for a site, cooperation between the permittees is encouraged to ensure the stormwater discharge control measures are consistent with one another (e.g., provisions to protect listed species and critical habitat).

PART 6: TERMINATION OF COVERAGE

6.1 Submitting a Notice of Termination

Submit a complete and accurate Notice of Termination (NOT) either electronically (strongly encouraged) at www.epa.gov/npdes/eNOI or by completing the paper Notice of Termination form included in Appendix F of this permit and submitting that form to the address listed in Part 2.2.

6.2 When to Submit a Notice of Termination

You may only submit a Notice of Termination (NOT) after one or more of the following conditions have been met:

A. Final stabilization has been achieved on all portions of the site for which you are responsible;

B. Another operator has assumed control according to Appendix G, Section 11.C over all areas of the site that have not been finally stabilized;

C. Coverage under an individual or alternative general NPDES permit has been obtained; or

D. For residential construction only, temporary stabilization has been completed and the residence has been transferred to the homeowner.

The NOT must be submitted within 30 days of one of the above conditions being met. Authorization to discharge terminates at midnight of the day the NOT is signed.

PART 7: RETENTION OF RECORDS

Copies of the SWPPP and all documentation required by this permit, including records of all data used to complete the NOI to be covered by this permit, must be retained for at least three years from the date that permit coverage expires or is terminated. This period may be extended by request of EPA at any time.

PART 8: REOPENER CLAUSE

8.1 Procedures for Modification or Revocation

Permit modification or revocation will be conducted according to 40 CFR §122.62, §122.63, §122.64 and §124.5.

8.2 Water Quality Protection

If there is evidence indicating that the stormwater discharges authorized by this permit cause, have the reasonable potential to cause or contribute to an excursion above any applicable water quality standard, you may be required to obtain an individual permit in accordance with Part 2.6 of this permit, or the permit may be modified to include different limitations and/or requirements.

8.3 Timing of Permit Modification

EPA may elect to modify the permit prior to its expiration (rather than waiting for the new permit cycle) to comply with any new statutory or regulatory requirements, such as for effluent limitation guidelines that may be promulgated in the course of the current permit cycle.

PART 9: STANDARD PERMIT CONDITIONS

The federal regulations require that the Standard Conditions provisioned at 40 CFR §122.41 be applied to all NPDES permits. You are required to comply with those Standard Conditions, details of which are provided in Appendix G.

PART 10: PERMIT CONDITIONS APPLICABLE TO SPECIFIC STATES, INDIAN COUNTRY, OR TERRITORIES

The provisions of this Part provide modifications or additions to the applicable conditions of this permit to reflect specific additional conditions required as part of the state or tribal CWA Section 401 certification process, or the Coastal Zone Management Act (CZMA) certification process, or as otherwise established by the permitting authority. The specific additional revisions and requirements only apply to activities in those specific states, Indian country, and federal facilities. States, Indian country, and federal facilities not included in this Part do not have any modifications or additions to the applicable conditions of this permit.

A. Region 1

1. MAR100000: Commonwealth of Massachusetts, except Indian country
   a. State Water Quality Statutes, Regulations, and Policies:
      i. You must comply with the Massachusetts Clean Waters Act (Ch. 21, ss. 26-53).
      ii. You must comply with the conditions in 314 CMR 4.00 - Surface Water Quality Standards.
      iii. You must comply with the conditions in 314 CMR 3.00 - Surface Water Discharge Permit Program.
      iv. You must comply with the Wetlands Protection Act, Ch. 131, s. 40 and its regulations, 310 CMR 10.00 and any order of Conditions issued by a Conservation Commission or a Superseding Order of Conditions issued by the Massachusetts Department of Environmental Protection.
   b. Department of Environmental Protection Storm Water Management Policy:

i. You must comply with the Massachusetts Storm Water Management Policy, and applicable Storm Water Performance Standards, as prescribed by state regulations promulgated under the authority of the Massachusetts Clean Waters Act, MGL Ch. 21, ss. 26-53 and the Wetlands Protection Act Ch. 131, s. 40.

c. Other State Environmental Laws, Regulations, Policies:

i. You must comply with the Massachusetts Endangered Species Act [MESA] (MGL Ch. 313A and regulations at 321 CMR 10.00) and any actions undertaken to comply with this storm water permit, shall not result in non-compliance with the MESA.

ii. You must not conduct activities under this permit that will interfere with implementation of mosquito control work conducted in accordance with Chapter 252 including, s. 5A thereunder and MassDEP Guideline Number BRP G01-02, West Nile Virus Application of Pesticides to Wetland Resource Areas and Buffer Zones, and Public Water Systems.

d. Other Department Directives:

i. The Department may require you to perform water quality monitoring during the permit term if monitoring is necessary for the protection of public health or the environment as designated under the authority at 314 CMR 3.00.

ii. The Department may require you to provide measurable verification of the effectiveness of BMPs and other control measures in your management program, including water quality monitoring.

iii. The Department has determined that compliance with this permit does not protect you from enforcement actions deemed necessary by the Department under its associated regulations to address an imminent threat to the public health or a significant adverse environmental impact which results in a violation of the Massachusetts Clean Waters Act, Ch. 21, ss. 26-53.

iv. The Department reserves the right to modify the 401 Water Quality Certification if any changes, modifications or deletions are made to the general permit. In addition, the Department reserves the right to add and/or alter the terms and conditions of its 401 Water Quality Certification to carry out its responsibilities during the term of this permit with respect to water quality, including any revisions to 314 CMR 4.00, Surface Water Quality Standards.

e. Permit Compliance

i. Should any violation of the Massachusetts Surface Water Quality Standards (314 CMR 4.00) or the conditions of this certification occur, the Department will direct you to correct the violations(s). The Department has the right to take any action as authorized by the General Laws of the Commonwealth to address the violation of this permit or the MA Clean Waters Act and the regulations promulgated thereunder. Substantial civil and criminal penalties are authorized under MGL Ch. 21, s. 42 for discharging into Massachusetts' waters in violation of an order or permit issued by this Department. This

certification does not relieve you of the duty to comply with other applicable Massachusetts statutes and regulations.

1. NHR100000: State of New Hampshire
   a. If you disturb 100,000 square feet or more of contiguous area, you must also apply for a "Significant Alteration of the Terrain Permit from DES pursuant to RSA 485-A:17 and Env-Ws 415. This requirement applies to the disturbances of only 50,000 square feet when construction occurs within the protected shoreline (see RSA 483-B and Env-Ws 1400).
   b. You must determine that any excavation dewatering discharges are not contaminated before they will be authorized as an allowable non-storm water discharge under this permit (see Subpart 1.3.B). The water is considered uncontaminated if there is no groundwater contamination within 1,000 feet of the discharge. Information on groundwater contamination can be generated over the Internet via the NHDES web site http://www.des.state.nh.us (One Stop Data Retrieval, Onestop Master Site Table). The web site also provides E-mail access to an NHDES Site Remediation Contact to answer questions about using the Web site.
   c. You must treat any uncontaminated excavation dewatering discharges as necessary to remove suspended solids and turbidity. The discharges must be sampled at a location prior to mixing with storm water at least once per week during weeks when discharges occur. The samples must be analyzed for total suspended solids (TSS) and must meet monthly average and maximum daily TSS limitations of 50 milligrams per liter (mg/L) and 100 mg/L, respectively. TSS (a.k.a. Residue, Nonfilterable) analysis and sampling must be performed in accordance with Tables IB (parameter, units and method) and II (required containers, preservation techniques and holding times) in 40 CFR 136.3 (see: http://www.access.gpo.gov/nara/cfr/waisidx_02/40cfr136_02.html). Records of any sampling and analysis must be maintained and kept with the SWPPP for at least three years after final site stabilization.
   d. During site design and preparation of the storm water pollution prevention plan (SWPPP), you must consider opportunities for groundwater recharge using on-site infiltration. The SWPPP must include a description of any on-site infiltration that will be installed as a post construction storm water management measure (see Subpart 3.4.E) or reasons for not employing such measures. For design considerations for infiltration measures see the September 2001 DES publication titled "Managing Storm Water as a Valuable Resource" which is available online at: http://www.des.state.nh.us/StormWater/construction.htm. Loss of annual recharge to groundwater should be minimized through the use of infiltration measures wherever feasible.

B. Region 2

1. NYR10000I: Indian country within the State of New York
   a. St. Regis Mohawk Territory at Akwesasne
      i.NOIs shall also be submitted to the St. Regis Mohawk Tribe, Environment Division, at the same time they are submitted to EPA, at the following address:

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St. Regis Mohawk Tribe, Environment Division
412 State Route 37
Akwesasne, NY 13655
Attn: Water Resources Program Manager

ii. In addition, Storm Water Pollution Prevention Plans (and any updates or amendments thereto) must be submitted to the Environment Division and to the Tribal Historic Preservation Officer at least thirty (30) days in advance of corresponding Notices of Intent. This will allow the Environment Division and the THPO to make an informed determination as to whether any proposed discharges might adversely impact the quality of its surface or groundwater, or disturb sites of historic or cultural significance to the Tribe that may be listed, or eligible to be listed, on the National Register of Historic Places.

C. Region 3 – No additional requirements (District of Columbia, Federal Facilities Only in the State of Delaware)

D. Region 5

I. MNR100000: Indian Country within the State of Minnesota

a. *Fond du Lac Band of Lake Superior Chippewa*

i. A copy of the Storm Water Pollution Prevention Plan must be submitted to the following office at least thirty (30) days in advance of sending the Notice of Intent (NOI) to EPA:

Fond du Lac Reservation
Office of Water Protection
1720 Big Lake Road
Cloquet, MN 55720

CGP applicants are encouraged to work with the FDL Office of Water Protection in the identification of all proposed receiving waters.

ii. Copies of the NOI and the Notice of Termination (NOT) must be sent to the Fond du Lac Office of Water Protection at the same time they are submitted to EPA.

iii. This certification does not pertain to any new discharge to Outstanding Reservation Resource Waters (ORRW) as described in §105 b.3 of the Fond du Lac Water Quality Standards (Ordinance #12/98). Although additional waters may be designated in the future, currently Perch Lake, Rice Portage Lake, Miller Lake, Deadfish Lake and Jaskari Lake are designated as ORRWs. New dischargers wishing to discharge to an ORRW must obtain an individual permit for stormwater discharges from large and small construction activities.

iv. All work shall be carried out in such a manner as will prevent violations of water quality criteria as stated in the Water Quality Standards of the Fond du Lac Reservation, Ordinance 12/98 as amended. This includes, but is not limited to, the prevention of any discharge that causes a condition in which visible

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solids, bottom deposits, or turbidity impairs the usefulness of water of the Fond du Lac Reservation for any of the uses designated in the Water Quality Standards of the Fond du Lac Reservation. These uses include wildlife, aquatic life, warm and cold water fisheries, subsistence fishing (netting), primary contact recreation, cultural, wild rice areas, aesthetic waters, agriculture, navigation and commercial.

v. Appropriate steps shall be taken to ensure that petroleum products or other chemical pollutants are prevented from entering waters of the Fond du Lac Reservation. All spills must be reported to the appropriate emergency management agency, and measures shall be taken immediately to prevent the pollution of waters of the Fond du Lac reservation, including groundwater.

vi. This certification does not authorize impacts to cultural, historical, or archeological features or sites, or properties that may be eligible for such listing.

b. *Grand Portage Band of Lake Superior Chippewa*

i. The CGP authorization is for construction activities that may occur within the exterior boundaries of the Grand Portage Reservation in accordance to the Grand Portage Land Use Ordinance. The CGP regulates storm-water discharges associated with construction sites of one acre or more in size. Only those activities specifically authorized by the CGP are authorized by this certification (the "Certification"). This Certification does not authorize impacts to cultural, historical, or archeological features or sites, or properties that may be eligible for listing as such.

ii. All construction storm water discharges authorized by the CGP must comply with the Water Quality Standards and Water Resources Ordinance, as well as Applicable Federal Standards (as defined in the Water Resources Ordinance). As such, appropriate steps must be taken to ensure that petroleum products or other chemical pollutants are prevented from entering the Waters of the Reservation (as defined in the Water Resources Ordinance). All spills must be reported to the appropriate emergency-management agency, and measures must be taken to prevent the pollution of the Waters of the Reservation, including groundwater.

iii. A copy of the Storm Water Pollution Prevention Plan (the "Plan") required by the CGP must be submitted to the Board at least 30 days in advance of sending the requisite Notice of Intent to EPA. The Board may require monitoring of storm-water discharges as determined on a case-by-case basis. If the Board determines that a monitoring plan is necessary, the monitoring plan must be prepared and incorporated into the Plan before the Notice of Intent is submitted to the EPA. The Plan should be sent to:

Grand Portage Environmental Resources Board
P.O. Box 428
Grand Portage, MN 55605

Copies of the Notice of Intent and Notice of Termination required under the General Permit must be submitted to the Board at the address above at the same time they are submitted to the EPA.

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iv. If requested by the Grand Portage Environmental Department, the permittee must provide additional information necessary for a case-by-case eligibility determination to assure compliance with the Water Quality Standards and any Applicable Federal Standards.

v. Discharges that the Board has determined to be or that may reasonably be expected to be contributing to a violation of Water Quality Standards or Applicable Federal Standards are not authorized by this Certification.

vi. The Board retains full authority provided by the Water Resources Ordinance to ensure compliance with and to enforce the provisions of the Water Resource Ordinance and Water Quality Standards, Applicable Federal Standards, and these Certification conditions.

vii. Appeals related to Board actions taken in accordance with any of the preceding conditions may be heard by the Grand Portage Tribal Court.

2. WIR100000: Indian Country within the State of Wisconsin, except the Sokaogon Chippewa Community.

   a. *Bad River Band of Lake Superior Tribe of Chippewa Indians*

      i. Only those activities specifically authorized by the CGP are authorized by this Certification. This Certification does not authorize impacts to cultural properties, or historical sites, or properties that may be eligible for listing as such.

      ii. An operator of a project, which is eligible for coverage under the CGP, that would result in an allowable discharge under the CGP occurring within the exterior boundaries of the Bad River Reservation must notify the Tribe prior to discharge. The operator must submit a copy of the Notice of Intent (NOI) to the Tribe's Natural Resources Department and the Tribal Historic Preservation Office at the same time the NOI is submitted to the U.S. EPA. The operator must also submit a copy of the Notice of Termination to the Tribe at the same time it is submitted to the U.S. EPA. Notification forms applicable to the CGP can be obtained from the EPA's webpage: http://cfpub.epa.gov/npdes. Notifications shall be sent to the following address:

         Bad River Tribe's Natural Resources Department
         P.O. Box 39
         Odanah, WI 54861

         Bad River's Tribal Historic Preservation Office
         P.O. Box 39
         Odanah, WI 54861

      iii. An operator of a project, which is eligible for coverage under the CGP, that would result in an allowable discharge under the CGP occurring within the exterior boundaries of the Bad River Reservation must provide the Tribe with a copy of the Stormwater Pollution Prevention Plan (SWPPP). The operator must submit a copy of the SWPPP to the following addresses prior to the discharge:

         Bad River Tribe's Natural Resources Department

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P.O. Box 39
Odanah, WI 54861

iv. All projects which are eligible for coverage under the CGP and are located within the exterior boundaries of the Bad River Reservation shall be implemented in such a manner that is consistent with Chapter 323 of the Bad River Tribal Ordinances, which is the "Bad River Reservation Wetland and Watercourse Protection Ordinance." Questions regarding Chapter 323 can be directed to the Tribe's Natural Resources Department at (715) 682-7123.

v. The Tribe's CWA 401 Certification for the 2008 NPDES CGP will be reviewed and revised upon federal approval of the Tribe's water quality standards to ensure the activity authorized by the CGP will not violate Tribal water quality standards.

Note: Facilities within the Sokaogon Chippewa Community are not eligible for stormwater discharge coverage under this permit. Contact the Region 5 office for an individual permit application.

E. Region 6

1. NMR100000: The State of New Mexico, except Indian country
   a. In addition to all other provisions of this permit, operators who intend to obtain authorization under this permit for all new stormwater discharges must satisfy the conditions in Part 10.C.1.b., unless a TMDL has been established for the receiving stream which specifies a waste load allocation (WLA) for construction stormwater discharges or the receiving stream is a Tier 3 water, in which case Part 10.C.1.c. applies.
   b. The SWPPP must include site-specific interim and permanent stabilization, managerial, and structural solids, erosion, and sediment control best management practices (BMPs) and/or other controls that are designed to prevent to the maximum extent practicable an increase in the sediment yield and flow velocity from pre-construction, pre-development conditions to assure that applicable standards in 20.6.4 NMAC, including the antidegradation policy, or WLAs are met. This requirement applies to discharges both during construction and after construction operations have been completed. The SWPPP must identify, and document the rationale for selecting these BMPs and/or other controls. The SWPPP must also describe design specifications, construction specifications, maintenance schedules (including a long term maintenance plan), criteria for inspections, as well as expected performance and longevity of these BMPs. BMP selection must be made based on the use of appropriate soil loss prediction models (such as SEDCAD 4.0, RUSLE, SEDIMOT II, MULTISED, etc.), or equivalent, generally accepted (by professional erosion control specialists), soil loss prediction tools. The operator(s) must demonstrate, and include documentation in the SWPPP, that implementation of the site-specific practices will assure that the applicable standards or WLAs are met, and will result in sediment yields and flow velocities that, to the maximum extent practicable, will not be greater than the sediment yield levels and flow velocities from pre-

construction, pre-development conditions. The SWPPP must be prepared in accordance with good engineering practices by qualified (e.g., CPESC certified, engineers with appropriate training, etc.) erosion control specialists familiar with the use of soil loss prediction models and design of erosion and sediment control systems based on these models (or equivalent soil loss prediction tools). The operator(s) must design, implement, and maintain BMPs in the manner specified in the SWPPP.

c. Operators are not eligible to obtain authorization under this permit for all new stormwater discharges to outstanding national resource waters (ONRWs) (also referred to as "Tier 3: waters). According to the Antidegradation Policy at Paragraph 3 of Subsection A of 20.6.4.8 NMAC, in part, "ONRWs may include, but are not limited to, surface waters of the state within national and state monuments, parks, wildlife refuges, waters of exceptional recreational or ecological significance, and waters identified under the Wild and Scenic Rivers Act." No ONRWs exist at the time this permit is being finalized; however, during the term of the permit, if a receiving water is designated as an ONRW, the operator must obtain an individual permit for stormwater discharges from large and small construction activities.
d. Stormwater discharges associated with construction activity that the State has determined to be or may reasonably be expected to be contributing to a violation of an applicable standard, including the antidegradation policy, are not authorized by this permit. *Note: Upon receipt of this determination, NMED anticipates that, within a reasonable period of time, EPA will notify the general permittee to apply for and obtain an individual NPDES permit for these discharges per 40 CFR Part 122.28(b)(3).*
e. Inspections required under Part 4 must be conducted at least once every 14 calendar days and within 24 hours of the end of a storm event of 0.5 inches or greater. The option for inspections at least once per 7 calendar days is not available. The Inspection Waivers provided in Part 4.B and C still apply.
f. Permittees can use temporary erosion controls as described in item 3 of the Appendix A definition of "Final Stabilization" as a method for final stabilization under the permit only under the following conditions:

   If this option is selected, you must notify SWQB at the address listed in item g. below at the time the NOT is submitted to EPA. The information to be submitted includes:

- A copy of the NOT;
- Contact information, including individual name or title, address, and phone number for the qualified (see CGP Part 4.10.D) party responsible for implementing the final stabilization measures; and
- The date that the temporary erosion control practice was implemented (this is always prior to, and sometimes significantly prior to, submission of an NOT) and the projected timeframe that the 70% native vegetative cover requirements are expected to be met. (Note that if more than three years is required to establish 70 percent of the natural vegetative cover, this technique cannot be used or cited for

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fulfillment of the final stabilization requirement – you remain responsible for establishment of final stabilization)

SWQB also requires that you periodically (minimum once/year) inspect and properly maintain the area until the criteria for final stabilization, as defined in Appendix A, item 3 of the CGP, have been met. You must prepare an inspection report documenting the findings of these inspections and signed in accordance with Appendix G, Section 11 of the CGP. This inspection record must be retained along with the SWPPP for three years after the NOT is submitted for the site and additionally submitted to SWQB at the address listed in item g. below. The inspections must at a minimum include the following:

- Observations of all areas of the site disturbed by construction activity;
- Best Management Practices (BMPs)/post-construction storm water controls must be observed to ensure they are effective;
- An assessment of the status of vegetative re-establishment; and
- Corrective actions required to ensure vegetative success within three years, and control of pollutants in storm water runoff from the site, including implementation dates.

Signed copies of discharge monitoring reports, individual permit applications, and all other reports required by the permit to be submitted, shall also be sent to:

Program Manager
Point Source Regulation Section
Surface Water Quality Bureau
New Mexico Environment Department
P.O. Box 26110
Santa Fe, NM 87502

2. NMR10000I: Indian country within the State of New Mexico, except Navajo Reservation Lands that are covered under Arizona permit AZR10000I and Ute Mountain Reservation Lands that are covered under Colorado permit COR10000I
   a. *Pueblo of Acoma.* The following conditions apply only to facilities on or bordering the Pueblo of Acoma with discharges into or flowing into waters of the Pueblo.
      i. A copy of the Notice of Intent and Notice of Termination must be submitted to the Haaku Water Office at the address below at the same time they are submitted to EPA. A copy of the storm water pollution prevention plan must be provided to the Haaku Water Office upon request.
      ii. HAAKU WATER OFFICE
      PO Box 309
      Pueblo of Acoma, NM 87034
   b. *Pueblo of Isleta.* The following conditions apply only to discharges on the Pueblo of Isleta.
      i. Subpart 1.3.C.4, (Eligibility, Limitations on Coverage) first sentence, is revised to read: "This permit does not authorize discharges that EPA or the Pueblo of Isleta, prior to authorization under this permit, determines will cause, have the reasonable potential to cause, or contribute to an excursion

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above any applicable water quality standard or impairment of a designated use of receiving waters."

ii. Subpart 2.2. (How to Submit) is amended to require: Copies of all Notices of Intent submitted to EPA must also be sent concurrently to the Pueblo of Isleta at the following address. Discharges are not authorized by this permit unless an accurate and complete Notice of Intent has been submitted to the Pueblo of Isleta.

Regular U.S. Mail Delivery
Natural Resources Department
Pueblo of Isleta
P.O. Box 1270
Isleta, NM 87022

Overnight/Express Mail Delivery
Natural Resources Department
Building L
11000 Broadway, SE
Albuquerque, NM 87105

iii. Part 2 (Authorizations for Discharges of Storm Water from Construction Activity), second sentence, is amended to read: "Discharges are not authorized if your NOI is incomplete or inaccurate, if you failed to submit a copy of the NOI to the Pueblo of Isleta, or if you were never eligible for permit coverage.

iv. Subpart 5.3 (Description of Control Measures to Reduce Pollutant Discharges), section A, last sentence, is amended to read: "For each major activity identified in the project description the SWPPP must clearly describe appropriate control measures, the general sequence during the construction process in which the measures will be implemented, and which operator is responsible for the control measure's implementation and maintenance."

v. Subpart 5.7 (Copy of Permit Requirements), first sentence, is revised to read "Copies of this permit and of the signed and certified NOI form that was submitted to the Pueblo of Isleta and EPA must be included in the SWPPP."

vi. Subpart 4. (Inspections), section A is revised to read "Inspections must be conducted at least once every 7 calendar days and within 24 hours of the end of a storm event of 0.5 inches or greater."

vii. Subpart 4. (Inspections), section H, last paragraph, is amended to add: "Copies of inspection reports that identify incidents of noncompliance shall be sent to Pueblo of Isleta at the address listed in Subpart 2.2." (See above)

viii. Subpart 5.11. (Signature, Plan Review and Making Plans Available), section A, first sentence is amended to read:

"A copy of the SWPPP (including a copy of the permit), NOI, and acknowledgement letter from EPA must be retained at the construction site (or other location easily accessible during normal business hours to

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the Pueblo of Isleta's Natural Resources Department, EPA, a state, tribal or local agency approving sediment and erosion plans, grading plans, or storm water management plans; local government officials; the operator of a municipal separate storm sewer receiving discharges from the site; and representatives of the U.S. Fish and Wildlife Service or the National Marine Fisheries Service) from the date of commencement of construction activities to the date of final stabilization."

ix. Subpart 5.11. (Signature, Plan Review and Making Plans Available), section C. is amended to read: "SWPPPs must be made available upon request by EPA; representatives of the Pueblo of Isleta Natural Resources Department, a state, tribal or local agency approving sediment and erosion plans, grading plans, or storm water management plans; local government officials; the operator of a municipal separate storm sewer receiving discharges from the site; and representatives of the U.S. Fish and Wildlife Service or the National Marine Fisheries Service to the requestor. The copy of the SWPPP that is required to be kept on-site or locally available must be made available, in its entirety, to the EPA staff and the Pueblo of Isleta's Natural Resources Department staff for review and copying at the time of an on-site inspection.

x. Subpart 3.1.A (Sediment Controls), is amended to add: "Erosion and sediment controls shall be designed to retain sediment on-site."

xi. Subpart 3.1.I (Spills/Releases in Excess of Reportable Quantities), first bullet is amended to read: "you must provide notice to the Pueblo of Isleta Natural Resources Department (505-869-5748) and the National Response Center (NRC) (800–424–8802; in the Washington, DC, metropolitan area call 202–426– 2675) in accordance with the requirements of 40 CFR Part 110, 40 CFR Part 117 and 40 CFR Part 302 as soon as site staff have knowledge of the discharge; and"

xii. Subpart 3.4.B (Attainment of Water Quality Standards After Authorization), is amended to add: "You must provide the Pueblo of Isleta, at the address listed in Subpart 2.2, with a copy of the EPA notification, modifications to your storm water controls, data and certification required by EPA."

xiii. Subpart 6.1. (Submitting a Notice of Termination) is amended to add: Copies of all Notices of Termination submitted to EPA must also be sent concurrently to the Pueblo of Isleta at the following address in Subpart 2.2.

xiv. Any correspondence, other than NOIs and NOTs, with the Pueblo of Isleta concerning storm water discharges authorized by this permit shall be sent to one of the addresses in Subpart 2.2.

xv. Appendix G, Section 9, first sentence is amended to read: "You must allow the Pueblo of Isleta's Natural Resources Department, EPA, or an authorized representative (including an authorized contractor acting as a representative of the Administrator), upon presentation of credentials and other documents as may be required by law, to:…"

xvi. Appendix G, Section 12, subsections A- H are amended to require that when you must notify EPA of an event (e.g., planned changes, anticipated

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noncompliance, transfers, required reporting due to potential adverse effects or environmental impacts or other noncompliance matters), the Pueblo of Isleta must also be notified.

xvii. Parties wishing to apply for an Equivalent Analysis Waiver (see Appendix D, Section C) must provide a copy of the waiver analysis to the Pueblo of Isleta at the address specified in Subpart 2.2 at the time it is submitted to EPA.

c. *Ohkay Owingeh (San Juan Pueblo).* The following conditions apply only to discharges on Ohkay Owinegeh.

i. Copies of the Notice of Intent (NOI) and Notice of Termination (NOT) must be provided to the Pueblo at the time it is provided to the Environmental Protection Agency, at the following address. A copy of the Storm Water Pollution Prevention Plan must be provided to the Pueblo upon request.

Office of Environmental Affairs
P.O. Box 717
Ohkay Owingeh, NM 87566

ii. Appendix G, Section 10 (Monitoring and records), item D is amended to add: "All monitoring must be conducted in accordance with the Pueblo of San Juan's Quality Assurance Project Plan."

d. *Pueblo of Nambé.* The following conditions apply only to discharges on the Pueblo of Nambé.

i. Copies of the Notice of Intent (NOI), Notice of Termination (NOT), and any analytical data must be provided to the Nambé Pueblo Department of Environment and Natural Resources (DENR) at the time it is provided to the Environmental Protection Agency, at the following address. A copy of the Storm Water Pollution Prevention Plan must be provided to the Pueblo upon request.

ii. All correspondence chall be sent to:

Pueblo of Nambé
Department of Environment and Natural Resources
Rt. 1 Box 117-BB
Santa Fe, NM 87506
505-455-2036 ext. 120 fax: 505-455-8873

e. *Pueblo of Picuris.* The following conditions apply only to discharges on the Pueblo of Picuris.

i. Copies of the Notice of Intent (NOI), Notice of Termination (NOT), and any analytical data (e.g. Discharge Monitoring Reports, etc.) or any other reports must be provided to the Pueblo at the time it is provided to the Environmental Protection Agency. A copy of the Storm Water Pollution Prevention Plan must be provided to the Pueblo upon request.

ii. All correspondence shall be sent to:

Cordell Arellano
Director, Environment Department

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Pueblo of Picuris
PO Box 158
Penasco, NM 87553

f. *Pueblo of Pojoaque.* The following conditions apply only to discharges on the Pueblo of Pojoaque.
   i. Copies of the Notice of Intent (NOI), Notice of Termination (NOT), and any analytical data (e.g. Discharge Monitoring Reports, etc.) or any other reports must be provided to the Pueblo at the time it is provided to the Environmental Protection Agency. A copy of documents related to the Storm Water Pollution Prevention Plan must be provided to the Pueblo upon request.
   ii. All correspondence shall be sent to:

Luke Mario Duran
Director, Environment Department
Pueblo of Pojoaque
5 West Gutierrez, Suite 2b
Santa Fe, NM 87506

g. *Pueblo of Taos.* The following conditions apply only to discharges on the Pueblo of Taos.
   i. Copies of the Notice of Intent (NOI) and Notice of Termination (NOT) must be provided to the Taos Pueblo Governor's Office and the Taos Pueblo Environmental Office at the same time as or prior to submission to the Environmental Protection Agency. A copy of the Storm Water Pollution Prevention Plan must be made available to Pueblo environmental personnel upon request.
   ii. All correspondence for both the Taos Pueblo Governor's Office and the Taos Pueblo Environmental Office (same address) shall be sent to:

Governor *(or as applicable)*
Program Manager, Taos Pueblo Environmental Office
Taos Pueblo
PO Box 1846
Taos, NM 87571

h. *Pueblo of Sandia.* The following conditions apply only to discharges on the Pueblo of Sandia.
   i. A copy of the Notice of Intent (NOI) must be provided to the Pueblo at the same, (or prior to) the time it is submitted to the Environmental Protection Agency.
   ii. The Pueblo of Sandia objects to use of Low Rainfall Erosivity Waivers (see Appendix D, Part A) for any small construction activities on the Pueblo, so this waiver will not be available for construction projects on the Pueblo. Permittees wishing to apply for all other waivers (see Appendix D) must provide a copy of the waiver certification or analysis to the Pueblo of Sandia Environment Department.

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iii. The Storm Water Pollution Prevention Plan (SWPPP) must be available to the Pueblo of Sandia either electronically or hard copy upon request for review. The SWPPP must be made available at least fourteen (14) days before construction begins. The fourteen (14) day period will give Tribal staff time to become familiar with the project site, prepare for construction inspections, and determine compliance with the Pueblo of Sandia Water Quality Standards. Failure to provide a SWPPP to the Pueblo of Sandia may result in denial of the discharge or construction delay.

iv. Discharges are not authorized by this permit unless and until:
   a. An accurate and complete NOI has been submitted to the Pueblo; AND
   b. An "Authorization to Proceed Letter" with any site specific mitigation requirements has been received from the Pueblo of Sandia following their review of the NOI and SWPPP and the permittee complies with all applicable requirements therein.

v. Before submitting a Notice of Termination (NOT), permittees must clearly demonstrate to the Pueblo of Sandia Environment Department though a site visit or documentation that requirements for site stabilization have been met and any temporary erosion control structures have been removed (or operational control is being passed to another operator). A short letter concurring that conditions for submittal of an NOT have met will be sent to the permittee by the Pueblo. Upon receipt of this letter, and provided the all other applicable requirements of the permit are met, the permittee will be eligible to submit and NOT.

vi. You must telephone the Pueblo of Sandia Environment Department at (505) 867-4533 of any noncompliance that may endanger human health or the environment within ten (10) hours of becoming aware of the circumstance.

vii. All correspondence shall be sent to:

Scott Bulgrin, Water Quality Manager
Pueblo of Sandia
481 Sandia Loop
Bernalillo, NM 87004

i. *Santa Clara Pueblo*. The following conditions apply only to discharges on the Santa Clara Pueblo.

   i. Copies of the Notice of Intent (NOI) and Notice of Termination (NOT) must be provided to the Pueblo of Santa Clara Office of Environmental Affairs when they are submitted to the Environmental Protection Agency.

   ii. A copy of the storm water pollution prevention plan must be made available to the Pueblo of Santa Clara Office of Environmental Affairs upon request.

   iii. Construction site operators must notify the Pueblo of Santa Clara Office of Environmental Affairs by telephone at (505) 753-7326 of any non-compliance discharges that may endanger human health or the environment within twenty-fout (24) hours of becoming aware of the discharge.

   iv. All correspondence shall be sent to:

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Santa Clara Office of Environmental Affairs
One Kee Street
PO Box 580
Espanola, NM 87532
505-753-7326 Tel
505-747-2728 Fax

j. *Pueblo of Tesuque.* The following conditions apply only to discharges on the Pueblo of Tesuque.
   i. Copies of the Notice of Intent (NOI), Notice of Termination (NOT), and any analytical data (e.g. Discharge Monitoring Reports, etc.) or any other reports must be provided to the Pueblo at the time it is provided to the Environmental Protection Agency.
   ii. A copy of documents related to the Storm Water Pollution Prevention Plan must be provided to the Pueblo upon request.
   iii. All correspondence shall be sent to:

Ryan Swazo-Hinds
Sr. Envirionmental Technician
Pueblo of Tesuque
Environment Department
Rt. 42, Box 360-T
Santa Fe, NM 87506

3. OKR10000F: Discharges in the State of Oklahoma that are not under the authority of the Oklahoma Department of Environmental Quality, including activities associated with oil and gas exploration, drilling, operations, and pipelines (includes SIC Groups 13 and 46, and SIC codes 492 and 5171), and point source discharges associated with agricultural production, services, and silviculture (includes SIC Groups 01, 02, 07, 08, 09).
   a. In accordance with Oklahoma's Water Quality Standards (OAC 785:45-5-25), Subpart 1.3.C. (Limitations on Coverage) is modified to add paragraphs 8 and 9 as follows:

"8. For activities located within the watershed of any Oklahoma Scenic River, including the Illinois River, Flint Creek, Barren Fork Creek, Upper Mountain Fork, Little Lee Creek, and Big Lee Creek or any water or watershed designated "ORW" (Outstanding Resource Water) in Oklahoma's Water Quality Standards, this permit may only be used to authorize discharges from temporary construction activities. Discharges from any on-going activities such as sand and gravel mining or any other mineral mining are not authorized.

9. For activities located within the watershed of any Oklahoma Scenic River, including the Illinois River, Flint Creek, Barren Fork Creek, Upper Mountain Fork, Little Lee Creek, and Big Lee Creek or any water or watershed designated "ORW" (Outstanding Resource Water) in Oklahoma's Water Quality Standards, this permit may not be used to authorize discharges from support activities,

including concrete or asphalt batch plants, equipment staging yards, material storage areas, excavated material disposal areas, or borrow areas."

4. OKR10000I: Indian country within the State of Oklahoma.

   a. In order to protect downstream waters subject to the state of Oklahoma's Water Quality Standards (OAC 785:45-5-25) where receiving waters flow from Indian Country to State waters, Subpart 1.3.C. (Limitations on Coverage) is modified to add paragraphs 8 and 9 as follows:

      "8. For activities located within the watershed of any Oklahoma Scenic River, including the Illinois River, Flint Creek, Barren Fork Creek, Upper Mountain Fork, Little Lee Creek, and Big Lee Creek or any water or watershed designated "ORW" (Outstanding Resource Water) in Oklahoma's Water Quality Standards, this permit may only be used to authorize discharges from temporary construction activities. Discharges from any on-going activities such as sand and gravel mining or any other mineral mining are not authorized.

      9. For activities located within the watershed of any Oklahoma Scenic River, including the Illinois River, Flint Creek, Barren Fork Creek, Upper Mountain Fork, Little Lee Creek, and Big Lee Creek or any water or watershed designated "ORW" (Outstanding Resource Water) in Oklahoma's Water Quality Standards, this permit may not be used to authorize discharges from support activities, including concrete or asphalt batch plants, equipment staging yards, material storage areas, excavated material disposal areas, or borrow areas."

   b. *Pawnee Nation of Oklahoma*. The following conditions apply only to discharges on the Pawnee Nation of Oklahoma.

      i. Copies of the Notice of Intent (NOI) and Notice of Termination (NOT) must be provided to the Pawnee Nation at the same time they are submitted to the Environmental Protection Agency.

      ii. A copy of the storm water pollution prevention plan must be made available to Pawnee Nation Department of Environmental Conservation and Safety upon request.

      iii. Construction site operators must notify the Pawnee Nation Department of Environmental Conservation and Safety by telephone at (918) 762-3655 immediately of any non-compliance with any provision of the permit conditions.

      iv. All correspondence shall be sent to:

      Pawnee Nation
      Department of Environmental Conservation and Safety
      PO Box 470
      Pawnee, OK 74058

5. TXR10000F: Discharges in the State of Texas that are not under the authority of the Texas Commission on Environmental Quality, including activities associated with the exploration, development, or production of oil or gas or geothermal resources, including transportation of crude oil or natural gas by pipeline.

NOTE: This permit does not create an obligation to obtain a permit where such obligation does not already exist under federal statute or regulation. For more information on the Clean Water Act §§ 402(l)(2) permitting exemption for uncontaminated discharges of storm water from oil and gas exploration, production, processing, or treatment operations or transmission facilities, visit: http://cfpub.epa.gov/npdes/stormwater/oilgas.cfm

F. Region 7 -- No additional requirements.

G. Region 8

1. MTR10000I:

a. Confederated Salish and Kootenai Tribes. The following conditions only apply for projects on the Flathead Indian Reservation:

i. Permittees must send a Stormwater Pollution Prevention Plan (SWPPP) to the Tribe at least 30 days before construction starts;

ii. Before submitting a Notice of Termination (NOT), permittees must clearly demonstrate to an appointed tribal staff person during an on-site inspection that requirements for site stabilization have been met;

iii. Permittees submitting electronic Notices of Intents (eNOI's) to USEPA must cc a copy to NRD-EPD@cskt.org; and

iv. Written NOIs, SWPPPs, and NOTs shall be mailed to:

Confederated Salish and Kootenai Tribes
National Resources Department
Department Head
P.O. Box 278
Pablo, MT 59855

Permittees may also submit their SWPPP and NOT to NRD-EPD@cskt.org

b. Fort Peck Tribes. The following conditions only apply for projects on the Fort Peck Indian Reservation:

i. The permittee must send a copy of the Notice of Intent (NOI) and the Notice of Termination (NOT) to the Tribes at the same time that the NOI and NOT is submitted to EPA. Copies of the NOI and NOT shall be accepted either electronically or hard copy format and should be sent to:

Deb Madison
Environmental Programs Manager
Fort Peck Assiniboine & Sioux Tribes
P.O. Box 1027
Poplar, MT 59255
Tel: 406.768.2389 Fax: 406.768.5606
E-mail: 2horses@nemont.net

ii. A copy of the proposed SWPPP at the time of NOI/NOT submissions

must be sent to the Tribes to ensure that upon closure of the site and/or activities all environmental commitments have been met.

c. Northern Cheyenne Reservation. The following conditions only apply for projects on the Northern Cheyenne Indian Reservation:
   i. Permittees must contact the Northern Cheyenne Environmental Protection Department at (406) 477-6506 prior to authorization to discharge under the general permit;
   ii. The Tribe shall review and approve SWPPPs prior to approval; and
   iii. The Tribe shall review and improve BMPs on site to ensure that Tribal water quality standards are protected.

H. Region 9

1. ASR100000: The Island of American Samoa
   a. Discharges authorized by the general permit shall meet all applicable American Samoa water quality standards.
   b. Permittees discharging under the general permit shall comply with all conditions of the permit.
2. AZR10000I: Indian country lands within the State of Arizona, including Navajo Reservation lands in New Mexico and Utah
   a. White Mountain Apache Tribe. The following condition applies only for projects on the White Mountain Apache Reservation:
      i. All NOIs for proposed stormwater discharge coverage shall be provided to the following address:

      Tribal Environmental Planning Office
      P.O. Box 2109
      Whiteriver, AZ 85941

   b. Hualapai Tribe. The following conditions apply only for projects on the Hualapai Reservation:
      i. All notices of intent for proposed stormwater discharges under the CGP and all pollution prevention plans for stormwater discharges on Hualapai Tribal lands shall be submitted to the Water Resource Program through the Tribal Chairman for review and approval, P.O. Box 179, Peach Springs, AZ 86434.
   c. Navajo Nation. The following conditions apply only for projects on the Navajo Nation:
      i. Copies of notices of intent and stormwater pollution prevention plans shall be made available to Navajo EPA for facilities located on Navajo lands;
      ii. Copies of all monitoring reports must be provided to Navajo EPA for facilities located on Navajo lands; and

iii. Facilities located on Navajo lands and covered by the CGP will be subject to compliance inspections by Navajo EPA staff with active Federal Inspector Credentials under the authority of the Clean Water Act.

3. CAR10000I: Indian Country lands within the State of California:

   a. Hoopa Valley Tribe. The following conditions apply only for projects on the Hoopa Valley Reservation:

      i. All notices of intent submitted for stormwater discharges under the general permit in Hoopa Valley Indian Reservation (HVIR) shall be submitted to the Tribal Environmental Protection Agency (TEPA); and

      ii. All pollution prevention plans for stormwater discharge in HVIR shall be submitted to TEPA for review and approval.

   b. 29 Palms Band of Mission Indians. The following conditions apply only for projects on the 29 Palms Band of Mission Indians Reservation:

      i. The 29 Palms Tribal EPA is informed of any future changes made to the proposed CGP;

      ii. For each permitted activity, the U.S. EPA will ensure that all terms and conditions of the proposed CGP are complied with;

      iii Notices of intent must be submitted to the 29 Palms Tribal EPA for review, comment and tracking;

      iv. Copies of stormwater pollution prevention plans (SWPPPs) and supporting Best Management Practices (BMPs) must be submitted to the 29 Palms Tribal EPA for review and compliance;

      v. Copies of all monitoring reports must be provided to the 29 Palms Tribal EPA;

      vi. Depending on the permitted activity, the 29 Palms Tribal EPA reserves the right to stipulate additional monitoring requirements; and

      vii. In order to meet the requirements of Tribal law, including water quality standards, each of the conditions cited in the proposed CGP and the Twenty-Nine Palms Band of Mission Indians certification shall not be made any less stringent.

   c. Bishop Paiute Tribe. The following conditions apply only for projects on the Bishop Paiute Reservation:

      i. Copies of notices of intent for proposed CGP activities must be submitted to the Bishop Paiute Tribe's Environmental Management Office for review and comment; and

      ii. Any substantive change in the NPDES permit that may affect water quality shall require notification of the Bishop Paiute Tribe Environmental Management Office.

   d. Big Pine Paiute Tribe of the Owens Valley. The following conditions apply only for projects on the Big Pine Paiute Tribe of the Owens Valley Reservation:

i. Copies of notices of intent shall be submitted to the Tribe at the same time (or prior to) submittal to EPA.

4. MPR100000: Commonwealth of the Northern Mariana Islands (CNMI)

   a. An Earthmoving and Erosion Control Permit shall be obtained from the CNMI DEQ prior to any construction activity covered under the NPDES general permit.

   b. All conditions and requirements set forth in the USEPA NPDES general permit for discharges from large and small construction must be complied with.

   c. A SWPPP for storm water discharges from construction activity must be approved by the Director of the CNMI DEQ prior to the submission of the NOI to USEPA. The CNMI address for the submittal of the SWPPP for approval is:

      Commonwealth of the Northern Mariana Islands
      Office of the Governor
      Director, Division of Environmental Quality (DEQ)
      P.O. Box 501304 C.K.
      Saipan, MP 96950-1304

   d. An NOI to be covered by the general permit for discharges from large and small construction sites must be submitted to CNMI DEQ (use above address) and USEPA, Region 9, in the form prescribed by USEPA, accompanied by a SWPPP approval letter from CNMI DEQ.

   e. The NOI must be postmarked seven (7) calendar days prior to any storm water discharges and a copy must be submitted to the Director of CNMI DEQ (use above address) no later than seven (7) calendar days prior to any stormwater discharges.

   f. Copies of all monitoring reports required by the NPDES general permit must be submitted to CNMI DEQ (use above address).

   g. In accordance with section 10.3(h) and (i) of the CNMI water quality standards, CNMI DEQ reserves the right to deny coverage under the general permit and to require submittal of an application for an individual NPDES permit based on a review of the NOI or other information made available to the Director.

5. NVR10000I: Indian Country lands within the State of Nevada

   a. Pyramid Lake Paiute Tribe. The following conditions apply only for projects on the Pyramid Lake Paiute Reservation:

      i. All notices of intent (NOIs) must be submitted to the Tribe for review, comments and tracking;

      ii. copies of all Stormwater Pollution Prevention Plan (SWPPPs) and supporting Best Management Practices (BMPs) must be submitted to the Pyramid Lake Paiute Tribe for review and concurrence;

      iii. copies of the criteria for Effluent Limitations Guidelines (ELGs) and the criteria for proposed Qualifying Local Programs (QLPs) to be used for sediment and erosion control pursuant to 40 CFR 122.44(s) be provided to the Pyramid Lake Paiute Tribe; and

iv. copies of all monitoring reports must be provided to the Pyramid Lake Paiute Tribe.

I. Region 10

1. IDR100000: The State of Idaho, except Indian country

a. *303(d)-listed Water Bodies with Approved TMDLs.*
Discharges of storm water will be consistent with load allocations established by the applicable TMDL.

b. *303(d)-listed Water Bodies without Approved TMDLs (High Priority)*
If a TMDL has not been established for a high priority 303(d)-listed water body, then discharges of storm water may not cause an increase in the total load of listed pollutant(s) in the receiving water body.

c. *303(d)-listed Water Bodies without Approved TMDLs (Medium or Low Priority)*
If a TMDL has not been established for a medium or low priority 303(d)-listed water body, then best management practices shall be employed as necessary to prohibit further impairment of the designated or existing beneficial uses in the receiving water body.

d. *Best Management Practices (BMPs)*
BMPs must be designed, implemented, and maintained by the permittee to fully protect and maintain the beneficial uses of the receiving water body. The permittee should select appropriate BMPs that are either authorized by the appropriate designated agency as defined in Idaho Water Quality Standards (IDAPA 58.01.02), recommended in IDEQ's *Catalog of Stormwater BMPs for Idaho Cities and Counties*, or recommended by other local government entities or guidance documents.

e. *Equivalent Analysis Waiver* - Use of the "Equivalent Analysis Waiver" in Appendix D of the permit is not authorized.

f. Operators may contact the Idaho Department of Environmental Quality regional office nearest the construction activity for more information about impaired waterways:

Boise Regional Office:
1445 N. Orchard
Boise ID 83706-2239
Tel: (208)373-0550
Fax: (208)373-0287

Grangeville Satellite Office:
300 W. Main
Grangeville ID 83530
Tel: (208)983-0808
Fax: (208)983-2873

Pocatello Regional Office:
444 Hospital Way #300
Pocatello ID 83201
Tel: (208)236-6160

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Fax: (208)236-6168

McCall Satellite Office:
502 N. 3rd Street #9A
P.O. Box 4654
McCall, ID 83638
Tel: (208)634-4900
Fax: (208)634-9405

Idaho Falls Regional Office:
900 N. Skyline, Suite B
Idaho Falls, ID 83402
Tel: (208)528-2650
Fax: (208)528-2695

Twin Falls Regional Office:
1363 Fillmore
Twin Falls, ID 83301
Tel: (208)736-2190
Fax: (208)736-2194

Coeur d'Alene Regional Office:
2110 Ironwood Parkway
Coeur d'Alene ID 83814
Tel: (208)769-1422
Fax: (208)769-1404

Lewiston Regional Office:
1118 "F" Street
Lewiston, ID 83501
Tel: (208)799-4370
Toll Free: 1-877-541-3304
Fax: (208)799-3451

2. ORR10000I: Indian country within the State of Oregon, except Fort McDermitt Reservation lands (see Region 9):

a. Confederated Tribes of the Umatilla Indian Reservation.
The following conditions apply only for projects within the exterior boundaries of the Umatilla Indian Reservation:

i. The operator shall be responsible for achieving compliance with the Confederated Tribes of the Umatilla Indian Reservation's (CTUIR) Water Quality Standards.

ii. The operator shall submit a copy of the Notice of Intent (NOI) to be covered by this general permit to the CTUIR Water Resources Program at the address below, at the same time it is submitted to EPA.

iii. The operator shall be responsible for submitting all Storm Water Pollution Prevention Plans required under this general permit to the CTUIR Water Resources Program for review and determination that the SWPPP is sufficient to meet Tribal

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Water Quality Standards prior to the beginning of any discharge activities taking place.

iv. The operator shall be responsible for reporting an exceedance of Tribal Water Quality Standards to the CTUIR Water Resources Program at the same time it is reported to EPA.

Confederated Tribes of the Umatilla Indian Reservation
Water Resources Program
46411 Timine Way
Pendleton, OR 97801
(541) 429-7200

v. At least 45 days prior to beginning any discharge activities, the operator must submit a copy of the Notice of Intent to be covered under this general permit and an assessment of whether the undertaking has the potential to affect historic properties to CTUIR Tribal Historic Preservation Office (THPO) at the address below. If the project has potential to affect historic properties, the operator's assessment must define the area of potential effect (APE). The operator must provide the THPO at least 30 days to comment on the APE as defined in the assessment.

vi. If the project is an undertaking, the operator must conduct a cultural resource investigation. All fieldwork must be conducted by qualified personnel (as outlined by the Secretary of the Interior's Standards and Guidelines found at http://www.nps.gov/history/local-law/arch_stnds_0.htm). All fieldwork must be documented using Oregon Reporting Standards (as outlined at http://egov.oregon.gov/OPRD/HCD/ARCH/arch_pubsandlinks.shtml).
The resulting report must be submitted to the THPO and the THPO must concur with the findings and recommendations before any ground disturbing work can occur. The operator must provide the THPO at least 30 days to review and respond to all reports.
The operator must obtain THPO concurrence in writing. If historic properties are present, this written concurrence will outline measures to be taken to prevent or mitigate effects to historic properties.

Confederated Tribes of the Umatilla Indian Reservation
Cultural Resources Protection Program
Tribal Historic Preservation Office
46411 Timine Way
Pendleton, OR 97801
(541) 429-7200

b. Confederated Tribes of Warm Springs.
The following conditions apply only for projects on the Warm Springs Indian Reservation:

i. All activities covered by this NPDES general permit occurring within a designated riparian buffer zone as established in Ordinance 74 (Integrated Resource Management Plan or IRMP) must be reviewed, approved and permitted through the Tribe's Hydraulic Permit Application process, including payment of any applicable fees.

ii. All activities covered by this NPDES general permit must follow all applicable land management and resource conservation requirements specified in the IRMP.

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iii. Operators of activities covered by this NPDES general permit must submit a Storm Water Pollution Prevention Plan to the Tribe's Water Control Board at the following address for approval at least 30 days prior to beginning construction activity:

Chair, Warm Springs Water Control Board
P.O. Box C
Warm Springs, Oregon 97761

3. WAR10000F: Federal Facilities in the State of Washington, except those located on Indian Country

a. Discharges shall not cause or contribute to a violation of surface water quality standards (Chapter 173-201A WAC), ground water quality standards (Chapter 173-200 WAC), sediment management standards (Chapter 173-204 WAC), and human health-based criteria in the National Toxics Rule (40 CFR Part 131.36). Discharges that are not in compliance with these standards are not authorized.

b. Prior to the discharge of stormwater and non-stormwater to waters of the state, the Permittee shall apply all known, available, and reasonable methods of prevention, control, and treatment (AKART). This includes the preparation and implementation of an adequate Stormwater Pollution Prevention Plan (SWPPP), with all appropriate best management practices (BMPs) installed and maintained in accordance with the SWPPP and the terms and conditions of this permit.

c. Sampling & Numeric Effluent Limitations – For Sites Discharging to Certain Waterbodies on the 303(d) List or with an Applicable TMDL

i. Permittees that discharge to water bodies listed as impaired by the State of Washington under Section 303(d) of the Clean Water Act for turbidity, fine sediment, high pH or phosphorus, shall conduct water quality sampling according to the requirements of this section.

(1) The operator must retain all monitoring results required by this section as part of the SWPPP. All data and related monitoring records must be provided to EPA or the Washington Department of Ecology upon request.

(2) The operator must notify EPA when the discharge turbidity or discharge pH exceeds the water quality standards as defined in Parts 10.F.4.d.ii and e.ii below, in accordance with the reporting requirements of Part G.12.F of this permit. All reports must be submitted to EPA at the following address:
U.S EPA Region 10
NPDES Compliance Unit - Attn: Federal Facilities Compliance Officer
1200 6th Avenue, Suite 900
OCE-133
Seattle, WA 98101
(206) 553-1846

ii. All references and requirements associated with Section 303(d) of the Clean Water Act mean the most current listing by Ecology of impaired waters that exists on November 16, 2005, or the date when the operator's complete NOI is received by EPA, whichever is later.

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Parameter identified in 303(d) listing	**Parameter/Units**	Analytical Method	Sampling Frequency	Water Quality Standard
Turbidity Fine Sediment Phosphorus	Turbidity/NTU	SM2130 or EPA180.1	Weekly, if discharging	If background is 50 NTU or less: 5 NTU over background; or If background is more than 50 NTU: 10% over background
High pH	pH/Standard Units	pH meter	Weekly, if discharging	In the range of 6.5 – 8.5

d. Discharges to waterbodies on the 303(d) list for turbidity, fine sediment, or phosphorus

i. Permittees which discharge to waterbodies on the 303(d) list for turbidity, fine sediment, or phosphorus shall conduct turbidity sampling at the following locations to evaluate compliance with the water quality standard for turbidity:

(1) Background turbidity shall be measured in the 303(d) listed receiving water immediately upstream (upgradient) or outside the area of influence of the discharge; and

(2) Discharge turbidity shall be measured at the point of discharge into the 303(d) listed receiving waterbody, inside the area of influence of the discharge; **or**
Alternatively, discharge turbidity may be measured at the point where the discharge leaves the construction site, rather than in the receiving waterbody.

ii. Based on sampling, if the discharge turbidity ever exceeds the water quality standard for turbidity (more than 5 NTU over background turbidity when the background turbidity is 50 NTU or less, or more than a 10% increase in turbidity when the background turbidity is more than 50 NTU), all future discharges shall comply with a numeric effluent limit which is equal to the water quality standard for turbidity. If a future discharge exceeds the water quality standard for turbidity, the permittee shall:

(1) Review the SWPPP for compliance with the permit and make appropriate revisions within 7 days of the discharge that exceeded the standard;

(2) Fully implement and maintain appropriate source control and/or treatment BMPs as soon as possible, but no later than 10 days of the discharge that exceeded the standard;

(3) Document BMP implementation and maintenance in the site log book;

(4) Continue to sample daily until discharge turbidity meets the water quality standard for turbidity.

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e. Discharges to waterbodies on the 303(d) list for High pH
   i. Permittees which discharge to waterbodies on the 303(d) list for high pH shall conduct sampling at one of the following locations to evaluate compliance with the water quality standard for pH (in the range of 6.5 – 8.5):
      (1) pH shall be measured at the point of discharge into the 303(d) listed waterbody, inside the area of influence of the discharge; or
      (2) Alternatively, pH may be measured at the point where the discharge leaves the construction site, rather than in the receiving water.
   ii. Based on the sampling set forth above, if the pH ever exceeds the water quality standard for pH (in the range of 6.5 – 8.5), all future discharges shall comply with a numeric effluent limit which is equal to the water quality standard for pH. If a future discharge exceeds the water quality standard for pH, the permittee shall:
      (1) Review the SWPPP for compliance with the permit and make appropriate revisions within 7 days of the discharge;
      (2) Fully implement and maintain appropriate source control and/or treatment BMPs as soon as possible, but no later than 10 days of the discharge that exceeded the standards;
      (3) Document BMP implementation and maintenance in the site log book;
      (4) Continue to sample daily until discharge meets the water quality standard for pH (in the range of 6.5 – 8.5).

f. Sampling & Limitations – For Sites Discharging to TMDLs
   i. Discharges to waterbodies subject to an applicable Total Maximum Daily Load (TMDL) for turbidity, fine sediment, high pH, or phosphorus, shall be consistent with the assumptions and requirements of the TMDL.
      (1) Where an applicable TMDL sets specific waste load allocations or requirements for discharges covered by this permit, discharges shall be consistent with any specific waste load allocations or requirements established by the applicable TMDL.
         a. Discharges shall be sampled weekly, or as otherwise specified by the TMDL, to evaluate compliance with the specific waste load allocations or requirements.
         b. Analytical methods used to meet the monitoring requirements shall conform to the latest revision of the Guidelines Establishing Test Procedures for the Analysis of Pollutants contained in 40 CFR Part 136.
      (2) Where an applicable TMDL has established a general waste load allocation for construction stormwater discharges, but no specific requirements have been identified, compliance with this permit will be assumed to be consistent with the approved TMDL.
      (3) Where an applicable TMDL has not specified a waste load allocation for construction stormwater discharges, but has not

excluded these discharges, compliance with this permit will be assumed to be consistent with the approved TMDL.

(4) Where an applicable TMDL specifically precludes or prohibits discharges from construction activity, the operator is not eligible for coverage under this permit.

ii. Applicable TMDL means a TMDL for turbidity, fine sediment, high pH, or phosphorus, which has been completed and approved by EPA prior to November 16, 2005, or prior to the date the operator's complete NOI is received by EPA, whichever is later.
Information on impaired waterways is available from the Department of Ecology website at:
http://www.ecy.wa.gov/programs/wq/stormwater/construction/impaired.html or by phone: 360-407-6460.

4. WAR10000I: Indian country within the State of Washington

a. Kalispel Tribe.

The following conditions apply only for projects on the Kalispel Reservation:

i. The permittee shall be responsible for achieving compliance with the Kalispel Tribe's Water Quality Standards.

ii. The permittee shall submit a copy of the Notice of Intent (NOI) to be covered by the general permit to the Kalispel Tribe Natural Resources Department at the same time as it submitted to the U.S. EPA

iii. The permittee shall submit all Storm Water Prevention Plans (SWPP) to the Kalispel Tribe Natural Resources Department thirty (30) days prior to beginning any discharge activities for review.

iv. Prior to any land disturbing activities on the Kalispel Indian Reservation and its dependent communities, the permittee shall obtain a cultural resource clearance letter from the Kalispel Natural Resource Department.

v. All tribal correspondence pertaining to the general permit for discharges of construction stormwater shall be sent to:

Kalispel Tribe Natural Resources Department
PO Box 39
Usk, WA 99180

b. Lummi Nation

The following conditions apply only for projects on the Lummi Reservation:

i. Pursuant to Lummi Code of Laws (LCL) 17.05.020(a), the operator must obtain a land use permit from the Lummi Planning Department as provided in Title 15 of the Lummi Code of Laws and regulations adopted thereunder.

ii. Pursuant to LCL 17.05.020(a), each operator shall develop and submit a Storm Water Pollution Prevention Plan to the Lummi Water Resources Division for review and approval by the Water Resources Manager prior to beginning any discharge activities.

iii. Pursuant to LCL Title 17, each operator shall be responsible for achieving compliance with the Water Quality Standards for Surface Waters of the Lummi Indian Reservation (Lummi Administrative Regulations [LAR] 17 LAR 07.010 through 17 LAR 07.210).

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iv. Each operator shall submit a copy of the Notice of Intent to the Lummi Water Resources Division at the same time it is submitted to the Environmental Protection Agency (EPA).

v. Storm Water Pollution Prevention Plans and Notices of Intent shall be submitted to:

Lummi Natural Resources Department
ATTN: Water Resources Manager
2616 Kwina Road
Bellingham, WA 98226

vi. Refer to the Lummi Nation website at *http://www.lummi-nsn.gov* to review a copy of Title 17 of the Lummi Code of Laws and the references upon which the conditions identified above are based.

c Makah Tribe

The following conditions apply only for projects on the Makah Reservation:

i. The operator shall be responsible for achieving compliance with the Makah Tribe's Water Quality Standards.

ii. The operator shall submit a Storm Water Pollution Prevention Plan to the Makah Tribe Water Quality Program and Makah Fisheries Habitat Division for review and approval at least thirty (30) days prior to beginning any discharge activities.

iii. The operator shall submit a copy of the Notice of Intent to the Makah Tribe Water Quality Program and Makah Fisheries Habitat Division at the same time it is submitted to EPA.

iv. Storm Water Pollution Prevention Plans and Notices of Intent shall be submitted to:

Makah Fisheries Water Quality and Habitat Division
PO Box 115
Neah Bay, WA 98357

d. Puyallup Tribe of Indians.

The following conditions apply only to stormwater discharges from large and small construction activities that result in a total land disturbance of equal to or greater than one acre, where those discharges enter surface waters of the Puyallup Tribe:

i. Each permittee shall be responsible for achieving compliance with the Puyallup Tribe's Water Quality Standards, including antidegradation provisions. The Puyallup Natural Resources Department will conduct an antidegradation review for permitted activities that have the potential to affect water quality. The antidegradation review will be consistent with the Tribe's Antidegradation Implementation Procedures.

ii. The permittee shall be responsible for meeting any additional permit requirements imposed by EPA necessary to comply with the Puyallup Tribe's antidegradation policies if the discharge point is located within 1 linear mile upstream of waters designated by the Tribe.

iii. Each permittee shall submit a copy of the Notice of Intent (NOI) to be covered by the general permit to the Puyallup Tribal Natural Resources

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Department at the address listed below at the same time it is submitted to EPA.

Puyallup Tribe of Indians
3009 E. Portland Avenue
Tacoma, WA 98404
ATTN: Natural Resources Department

iv. All supporting documentation and certifications in the NOI related to coverage under the general permit for Endangered Species Act purposes shall be submitted to the Puyallup Tribal Natural Resources Department for review.

v. If EPA requires coverage under an individual or alternative permit, the permittee shall submit a copy of the permit to the Puyallup Tribal Natural Resources Department at the address listed above.

vi. The permittee shall submit all stormwater pollution prevention plans to the Puyallup Tribal Natural Resources Department for review and approval prior to beginning any activities resulting in a discharge to tribal waters.

Appendix A - Definitions and Acronyms

Definitions

"Arid Areas" means areas with an average annual rainfall of 0 to 10 inches.

"Best Management Practices" (BMPs) means schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the discharge of pollutants to waters of the United States. BMPs also include treatment requirements, operating procedures, and practice to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.

"Commencement of Construction Activities" means the initial disturbance of soils associated with clearing, grading, or excavating activities or other construction-related activities (e.g., stockpiling of fill material).

"Control Measure" as used in this permit, refers to any BMP or other method used to prevent or reduce the discharge of pollutants to waters of the United States.

"CWA" means the Clean Water Act or the Federal Water Pollution Control Act, 33 U.S.C. section 1251 et seq.

"Discharge" when used without qualification means the "discharge of a pollutant."

"Discharge of Stormwater Associated with Construction Activity" as used in this permit, refers to a discharge of pollutants in stormwater from areas where soil disturbing activities (e.g., clearing, grading, or excavation), construction materials or equipment storage or maintenance (e.g., fill piles, borrow area, concrete truck chute washdown, fueling), or other industrial stormwater directly related to the construction process (e.g., concrete or asphalt batch plants) are located.

"Eligible" means qualified for authorization to discharge stormwater under this general permit.

"Facility" or "Activity" means any "point source" or any other facility or activity (including land or appurtenances thereto) that is subject to regulation under the NPDES program.

"Federal Facility" means any buildings, installations, structures, land, public works, equipment, aircraft, vessels, and other vehicles and property, owned by, or constructed or manufactured for the purpose of leasing to, the Federal government.

"Final Stabilization" means that:

1. All soil disturbing activities at the site have been completed and either of the two following criteria are met:
   a. a uniform (e.g,, evenly distributed, without large bare areas) perennial vegetative cover with a density of 70 percent of the native background

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vegetative cover for the area has been established on all unpaved areas and areas not covered by permanent structures, or

b. equivalent permanent stabilization measures (such as the use of riprap, gabions, or geotextiles) have been employed.

2. When background native vegetation will cover less than 100 percent of the ground (e.g., arid areas, beaches), the 70 percent coverage criteria is adjusted as follows: if the native vegetation covers 50 percent of the ground, 70 percent of 50 percent (0.70 X 0.50 = 0.35) would require 35 percent total cover for final stabilization. On a beach with no natural vegetation, no stabilization is required.
3. In arid and semi-arid areas only, all soil disturbing activities at the site have been completed and both of the following criteria have been met:
   a. Temporary erosion control measures (e.g., degradable rolled erosion control product) are selected, designed, and installed along with an appropriate seed base to provide erosion control for at least three years without active maintenance by you,
   b. The temporary erosion control measures are selected, designed, and installed to achieve 70 percent vegetative coverage within three years.
4. For individual lots in residential construction, final stabilization means that either:
   a. The homebuilder has completed final stabilization as specified above, or
   b. The homebuilder has established temporary stabilization including perimeter controls for an individual lot prior to occupation of the home by the homeowner and informing the homeowner of the need for, and benefits of, final stabilization.
5. For construction projects on land used for agricultural purposes (e.g., pipelines across crop or range land, staging areas for highway construction, etc.), final stabilization may be accomplished by returning the disturbed land to its preconstruction agricultural use. Areas disturbed that were not previously used for agricultural activities, such as buffer strips immediately adjacent to ''water of the United States,'' and areas which are not being returned to their preconstruction agricultural use must meet the final stabilization criteria (1) or (2) or (3) above.

"Indian country" is defined at 40 CFR §122.2 to mean:

1. All land within the limits of any Indian reservation under the jurisdiction of the United States Government, notwithstanding the issuance of any patent, and, including rights-of-way running through the reservation;
2. All dependent Indian communities with the borders of the United States whether within the originally or subsequently acquired territory thereof, and whether within or without the limits of a state; and
3. All Indian allotments, the Indian titles to which have not been extinguished, including rights-of-ways running through the same.

"Large Construction Activity" is defined at 40 CFR §122.26(b)(14)(x) and incorporated here by reference. A large construction activity includes clearing, grading, and excavating resulting in a land disturbance that will disturb equal to or greater than five acres of land or will disturb less than five acres of total land area but is part of a larger common plan of development or sale that will ultimately disturb equal to or greater than five acres. Large

construction activity does not include routine maintenance that is performed to maintain the original line and grade, hydraulic capacity, or original purpose of the site.

"Municipal Separate Storm Sewer System" or "MS4" is defined at 40 CFR §122.26(b)(8) to mean a conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, manmade channels, or storm drains):

1. Owned and operated by a state, city, town, borough, county, parish, district, association, or other public body (created by or pursuant to State law) having jurisdiction over disposal of sewage, industrial wastes, stormwater, or other wastes, including special districts under State law such as a sewer district, flood control district or drainage district, or similar entity, or an Indian tribe or an authorized Indian tribal organization, or a designated and approved management agency under section 208 of the CWA that discharges to waters of the United States;
2. Designed or used for collecting or conveying stormwater;
3. Which is not a combined sewer; and
4. Which is not part of a Publicly Owned Treatment Works (POTW) as defined at 40 CFR §122.2.

"New Project" means the "commencement of construction activities" occurs after the effective date of this permit.

"Ongoing Project" means the "commencement of construction activities" occurs before the effective date of this permit.

"Operator" for the purpose of this permit and in the context of stormwater associated with construction activity, means any party associated with a construction project that meets either of the following two criteria:

1. The party has operational control over construction plans and specifications, including the ability to make modifications to those plans and specifications; or
2. The party has day-to-day operational control of those activities at a project which are necessary to ensure compliance with a SWPPP for the site or other permit conditions (e.g., they are authorized to direct workers at a site to carry out activities required by the SWPPP or comply with other permit conditions). This definition is provided to inform permittees of EPA's interpretation of how the regulatory definitions of "owner or operator" and "facility or activity" are applied to discharges of stormwater associated with construction activity.

"Owner or operator" means the owner or operator of any ''facility or activity'' subject to regulation under the NPDES program.

"Permitting Authority" means the United States Environmental Protection Agency, EPA, a Regional Administrator of the Environmental Protection Agency or an authorized representative.

"Point Source" means any discernible, confined, and discrete conveyance, including but not limited to, any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock concentrated animal feeding operation, landfill leachate collection system, vessel or other floating craft from which pollutants are or may be discharged. This term does not include return flows from irrigated agriculture or agricultural stormwater runoff.

"Pollutant" is defined at 40 CFR §122.2. A partial listing from this definition includes: dredged spoil, solid waste, sewage, garbage, sewage sludge, chemical wastes, biological materials, heat, wrecked or discarded equipment, rock, sand, cellar dirt, and industrial or municipal waste.

"Project Area" means:
– The areas on the construction site where stormwater discharges originate and flow toward the point of discharge into the receiving waters (including areas where excavation, site development, or other ground disturbance activities occur) and the immediate vicinity. (Example: 1. Where bald eagles nest in a tree that is on or bordering a construction site and could be disturbed by the construction activity or where grading causes stormwater to flow into a small wetland or other habitat that is on the site that contains listed species.)
– The areas where stormwater discharges flow from the construction site to the point of discharge into receiving waters. (Example: Where stormwater flows into a ditch, swale, or gully that leads to receiving waters and where listed species (such as amphibians) are found in the ditch, swale, or gully.)
– The areas where stormwater from construction activities discharge into receiving waters and the areas in the immediate vicinity of the point of discharge. (Example: Where stormwater from construction activities discharges into a stream segment that is known to harbor listed aquatic species.)
– The areas where stormwater BMPs will be constructed and operated, including any areas where stormwater flows to and from BMPs. (Example: Where a stormwater retention pond would be built.)
– The areas upstream and /or downstream from construction activities discharges into a stream segment that may be affected by the said discharges. (Example: Where sediment discharged to a receiving stream settles downstream and impacts a breeding area of a listed aquatic species.)

"Receiving water" means the "Water of the United States" as defined in 40 CFR §122.2 into which the regulated stormwater discharges.

"Runoff coefficient" means the fraction of total rainfall that will appear at the conveyance as runoff.

"Semi-Arid Areas" means areas with an average annual rainfall of 10 to 20 inches.

"Site" means the land or water area where any "facility or activity" is physically located or conducted, including adjacent land used in connection with the facility or activity.

"Small Construction Activity" is defined at 40 CFR §122.26(b)(15) and incorporated here by reference. A small construction activity includes clearing, grading, and excavating resulting in a land disturbance that will disturb equal to or greater than one (1) acre and less than five (5) acres of land or will disturb less than one (1) acre of total land area but is part of a larger common plan of development or sale that will ultimately disturb equal to or greater than one (1) acre and less than five (5) acres. Small construction activity does not include routine maintenance that is performed to maintain the original line and grade, hydraulic capacity, or original purpose of the site.

"Stormwater" means stormwater runoff, snow melt runoff, and surface runoff and drainage.

"Stormwater Discharge-Related Activities" as used in this permit, include: activities that cause, contribute to, or result in stormwater point source pollutant discharges, including but not limited to: excavation, site development, grading and other surface disturbance activities; and measures to control stormwater including the siting, construction and operation of BMPs to control, reduce or prevent stormwater pollution.

"Total Maximum Daily Load" or "TMDL" means the sum of the individual wasteload allocations (WLAs) for point sources and load allocations (LAs) for nonpoint sources and natural background. If a receiving water has only one point source discharger, the TMDL is the sum of that point source WLA plus the LAs for any nonpoint sources of pollution and natural background sources, tributaries, or adjacent segments. TMDLs can be expressed in terms of either mass per time, toxicity, or other appropriate measure.

"Waters of the United States" is as defined at 40 CFR §122.2.

"Wetland" means those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas.

ACRONYMS

BMP - Best Management Practices
CGP - Construction General Permit
CFR - Code of Federal Regulations
CWA - Clean Water Act
EPA - United States Environmental Protection Agency
ESA - Endangered Species Act
FWS - United States Fish and Wildlife Service
MS4 - Municipal Separate Storm Sewer System
MSGP - Multi-Sector General Permit
NHPA - National Historic Preservation Act
NMFS - United States National Marine Fisheries Service
NOI - Notice of Intent

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NOT - Notice of Termination
NPDES - National Pollutant Discharge Elimination System
POTW - Publicly Owned Treatment Works
SHPO - State Historic Preservation Officer
SWPPP - Stormwater Pollution Prevention Plan
THPO - Tribal Historic Preservation Officer
TMDL - Total Maximum Daily Load
WQS - Water Quality Standard

Appendix B - Permit Areas Eligible for Coverage

Permit coverage for stormwater discharges from construction activity occurring within the following areas is provided by legally separate and distinctly numbered permits:

1. EPA Region 1: CT, MA, ME, NH, RI, VT

US EPA, Region 01
Office of Ecosystem Protection
NPDES Stormwater Program
1 Congress St, Suite 1100 (CMU)
Boston, MA 02114-2023

The States of Connecticut, Maine, Rhode Island, and Vermont are the NPDES Permitting Authority for the majority of discharges within their respective states.

Permit No.	Areas of Coverage/Where EPA is Permitting Authority
MAR100000	Commonwealth of Massachusetts (except Indian country)
MAR10000I	Indian country within the State of Massachusetts
CTR10000I	Indian country within the State of Connecticut
NHR100000	State of New Hampshire
RIR10000I	Indian country within the State of Rhode Island
VTR10000F	Federal Facilities in the State of Vermont

2. EPA Region 2: NJ, NY, PR, VI

For NJ, NY, and VI:
US EPA, Region 02
NPDES Stormwater Program
290 Broadway, 24th Floor
New York, NY 10007-1866

For PR:
US EPA, Region 02
Caribbean Environmental Protection Division
NPDES Stormwater Program
1492 Ponce de Leon Ave
Central Europa Building, Suite 417
San Juan, PR 00907-4127

The State of New York is the NPDES Permitting Authority for the majority of discharges within its state. The State of New Jersey and the Virgin Islands are the NPDES Permitting Authority for all discharges within their respective states.

Permit No.	Areas of Coverage/Where EPA is Permitting Authority
NYR10000I	Indian country within the State of New York

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PRR100000	The Commonwealth of Puerto Rico

3. EPA Region 3: DE, DC, MD, PA, VA, WV

US EPA, Region 03
NPDES Stormwater Program
1650 Arch St
Philadelphia, PA 19103

The State of Delaware is the NPDES Permitting Authority for the majority of discharges within its state. Maryland, Pennsylvania, Virginia, and West Virginia are the NPDES Permitting Authority for all discharges within their respective states.

Permit No.	Areas of Coverage/Where EPA is Permitting Authority
DCR100000	The District of Columbia
DER10000F	Federal Facilities in the State of Delaware

4. EPA Region 4: AL, FL, GA, KY, MS, NC, SC, TN

US EPA, Region 04
Water Management Division
NPDES Stormwater Program
61 Forsyth St SW
Atlanta, GA 30303-3104

Coverage Not Available. Construction activities in Region 4 must obtain permit coverage under an alternative permit.

5. EPA Region 5: IL, IN, MI, MN, OH, WI

US EPA, Region 05
NPDES & Technical Support
NPDES Stormwater Program
77 W Jackson Blvd
(WN-16J)
Chicago, IL 60604-3507

The States of Michigan, Minnesota, and Wisconsin are the NPDES Permitting Authority for the majority of discharges within their respective states. The States of Illinois, Indiana, and Ohio are the NPDES Permitting Authorities for all discharges within their respective states.

Permit No.	Areas of coverage/where EPA is Permitting Authority
MIR10000I	Indian country within the State of Michigan

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MNR10000I	Indian country within the State of Minnesota, except the Grand Portage Band of Chippewa
WIR10000I	Indian country within the State of Wisconsin, except the Sokaogon Chippewa (Mole Lake) Community.

6. EPA Region 6: AR, LA, OK, TX, NM (except see Region 9 for Navajo lands, and see Region 8 for Ute Mountain Reservation lands)

US EPA, Region 06
NPDES Stormwater Program
1445 Ross Ave, Suite 1200
Dallas, TX 75202-2733

The States of Louisiana, Oklahoma, and Texas are the NPDES Permitting Authority for the majority of discharges within their respective state. The State of Arkansas is the NPDES Permitting Authority for all discharges within its respective state.

Permit No.	**Areas of coverage/where EPA is Permitting Authority**
LAR10000I	Indian country within the State of Louisiana
NMR100000	The State of New Mexico, except Indian country
NMR10000I	Indian country within the State of New Mexico, except Navajo Reservation Lands that are covered under Arizona permit AZR10000I and Ute Mountain Reservation Lands that are covered under Colorado permit COR10000I.
OKR10000I	Indian country within the State of Oklahoma
OKR10000F	Discharges in the State of Oklahoma that are not under the authority of the Oklahoma Department of Environmental Quality, including activities associated with oil and gas exploration, drilling, operations, and pipelines (includes SIC Groups 13 and 46, and SIC codes 492 and 5171), and point source discharges associated with agricultural production, services, and silviculture (includes SIC Groups 01, 02, 07, 08, 09).
TXR10000F	Discharges in the State of Texas that are not under the authority of the Texas Commission on Environmental Quality (formerly TNRCC), including activities associated with the exploration, development, or production of oil or gas or geothermal resources, including transportation of crude oil or natural gas by pipeline.
TXR10000I	Indian country within the State of Texas.

7. EPA Region 7: IA, KS, MO, NE (except see Region 8 for Pine Ridge Reservation Lands)

US EPA, Region 07
NPDES Stormwater Program
901 N 5th St
Kansas City, KS 66101

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The States of Iowa, Kansas, and Nebraska are the NPDES Permitting Authority for the majority of discharges within their respective states. The State of Missouri is the NPDES Permitting Authority for all discharges within its state.

Permit No.	Areas of coverage/where EPA is Permitting Authority
IAR10000I	Indian country within the State of Iowa
KSR10000I	Indian country within the State of Kansas
NER10000I	Indian country within the State of Nebraska, except Pine Ridge Reservation lands (see Region 8)

8. EPA Region 8: CO, MT, ND, SD, WY, UT (except see Region 9 for Goshute Reservation and Navajo Reservation Lands), the Ute Mountain Reservation in NM, and the Pine Ridge Reservation in NE.

US EPA, Region 08
NPDES Stormwater Program
999 18th St, Suite 300
(EPR-EP)
Denver, CO 80202-2466

The States of Colorado, Montana, North Dakota, South Dakota, Utah, and Wyoming are the NPDES Permitting Authority for the majority of discharges within their respective states.

Permit No.	Areas of coverage/where EPA is Permitting Authority
COR10000F	Federal Facilities in the State of Colorado, except those located on Indian country
COR10000I	Indian country within the State of Colorado, as well as the portion of the Ute Mountain Reservation located in New Mexico
MTR10000I	Indian country within the State of Montana
NDR10000I	Indian country within the State of North Dakota, as well as that portion of the Standing Rock Reservation located in South Dakota (except for the portion of the lands within the former boundaries of the Lake Traverse Reservation which is covered under South Dakota permit SDR10000I listed below)
SDR10000I	Indian country within the State of South Dakota, as well as the portion of the Pine Ridge Reservation located in Nebraska and the portion of the lands within the former boundaries of the Lake Traverse Reservation located in North Dakota (except for the Standing Rock Reservation which is covered under North Dakota permit NDR10000I listed above)
UTR10000I	Indian country within the State of Utah, except Goshute and Navajo Reservation lands (see Region 9)
WYR10000I	Indian country within the State of Wyoming

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9. EPA Region 9: CA, HI, NV, Guam, American Samoa, the Commonwealth of the Northern Mariana Islands, the Goshute Reservation in UT and NV, the Navajo Reservation in UT, NM, and AZ, the Duck Valley Reservation in ID, and the Fort McDermitt Reservation in OR.

US EPA, Region 09
NPDES Stormwater Program
75 Hawthorne St
San Francisco, CA 94105-3901

The States of Arizona, California and Nevada are the NPDES Permitting Authority for the majority of discharges within their respective states. The State of Hawaii is the NPDES Permitting Authority for all discharges within its state.

Permit No.	Areas of coverage/where EPA is Permitting Authority
ASR100000	The Island of American Samoa
AZR10000I	Indian country within the State of Arizona, as well as Navajo Reservation lands in New Mexico and Utah
CAR10000I	Indian country within the State of California
GUR100000	The Island of Guam
JAR100000	Johnston Atoll
MWR100000	Midway Island and Wake Island
MPR100000	Commonwealth of the Northern Mariana Islands
NVR10000I	Indian country within the State of Nevada, as well as the Duck Valley Reservation in Idaho, the Fort McDermitt Reservation in Oregon and the Goshute Reservation in Utah

10. EPA Region 10: AK, WA, ID (except see Region 9 for Duck Valley Reservation Lands), and OR (except see Region 9 for Fort McDermitt Reservation).

US EPA, Region 10
NPDES Stormwater Program
1200 6th Ave (OW-130)
Seattle, WA 98101-1128
Phone: (206) 553-6650

The States of Oregon and Washington are the NPDES Permitting Authority for the majority of discharges within their respective states.

Permit No.	Areas of coverage/where EPA is Permitting Authority
AKR10000I	Indian country within the state of Alaska
IDR100000	The State of Idaho, except Indian country
IDR10000I	Indian country within the State of Idaho, except Duck Valley Reservation lands (see Region 9)
ORR10000I	Indian country within the State of Oregon, except Fort McDermitt Reservation lands (see Region 9)

WAR10000F	Federal Facilities in the State of Washington, except those located on Indian country
WAR10000I	Indian country within the State of Washington

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Appendix C - Endangered Species Act Review Procedures

You must meet at least one of the six criteria in Part 1.3.C.6 to be eligible for coverage under this permit. You must follow the procedures in this Appendix to assess the potential effects of stormwater discharges and stormwater discharge-related activities on listed species and their critical habitat. When evaluating these potential effects, operators must evaluate the entire project area.

For purposes of this Appendix, the term "project area" is inclusive of the term "Action Area." Action area is defined in 50 CFR §402.02 as all areas to be affected directly or indirectly by the federal action and not merely the immediate area involved in the action.

This includes areas beyond the footprint of the construction area that may be affected by stormwater discharges and stormwater discharge related activities. "Project area" is defined in Appendix A.

(Operators who are eligible and able to certify eligibility under Criterion B, C, D, or F of Part 1.3.C.6 because of a previously issued ESA section 10 permit, a previously completed ESA section 7 consultation, or because the operator's activities were already addressed in another operator's certification of eligibility may proceed directly to Step Four.)

Step One: Determine if Listed Threatened or Endangered Species are Preseut On or Near Your Project Area

You must determine, to the best of your knowledge, whether listed species are located on or near your project area. To make this determination, you should:

- Determine if listed species are in your county or township. The local offices of the U.S. Fish and Wildlife Service (FWS), National Marine Fisheries Service (NMFS), and State or Tribal Heritage Centers often maintain lists of federally listed endangered or threatened species on their internet sites. Visit http://www.epa.gov/npdes/stormwater/cgp to find the appropriate site for your state or check with your local office. In most cases, these lists allow you to determine if there are listed species in your county or township.
- If there are listed species in your county or township, check to see if critical habitat has been designated and if that area overlaps or is near your project area.
- Contact your local FWS, NMFS, or State or Tribal Heritage Center to determine if the listed species could be found on or near your project area and if any critical habitat areas have been designated that overlap or are near your project area. Critical habitat areas maybe designated independently from the listed species for your county, so even if there are no listed species in your county or township, you must still contact one of the agencies mentioned above to determine if there are any critical habitat areas on or near your project area.

You can also find critical habitat designations and associated requirements at 50 CFR Parts 17 and 226. http://www.access.gpo.gov.

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- If there are no listed species in your county or township, no critical habitat areas on or near your project area, or if your local FWS, NMFS, or State or Tribal Heritage Center indicates that listed species are not a concern in your part of the county or township, you may check box A on the Notice of Intent Form.
- If there are listed species and if your local FWS, NMFS, or State or Tribal Heritage Center indicates that these species could exist on or near your project area, you will need to do one or more of the following:
  - Conduct visual inspections: This method may be particularly suitable for construction sites that are smaller in size or located in non-natural settings such as highly urbanized areas or industrial parks where there is little or no natural habitat, or for construction activities that discharge directly into municipal stormwater collection systems.
  - Conduct a formal biological survey. In some cases, particularly for larger construction sites with extensive stormwater discharges, biological surveys may be an appropriate way to assess whether species are located on or near the project area and whether there are likely adverse effects to such species. Biological surveys are frequently performed by environmental consulting firms. A biological survey may in some cases be useful in conjunction with Steps Two, Three, or Four of these instructions.
  - Conduct an environmental assessment under the National Environmental Policy Act (NEPA). Such reviews may indicate if listed species are in proximity to the project area. Coverage under the CGP does not trigger such a review because the CGP does not regulate new sources (that is, dischargers subject to New Source Performance Standards under section 306 of the Clean Water Act), and is thus statutorily exempted from NEPA. See CWA section 511(c). However, some construction activities might require review under NEPA for other reasons such as federal funding or other federal involvement in the project.
  - If listed threatened or endangered species or critical habitat are present in the project area, you must look at impacts to species and/or habitat when following Steps Two through Four. Note that many but not all measures imposed to protect listed species under these steps will also protect critical habitat. Thus, meeting the eligibility requirements of this CGP may require measures to protect critical habitat that are separate from those to protect listed species.

Step Two: Determine if the Construction Activity's Stormwater Discharges or Stormwater Discharge- Related Activities Are Likely to Adversely Affect Listed Threatened or Endangered Species or Designated Critical Habitat

To receive CGP coverage, you must assess whether your stormwater discharges or stormwater discharge related activities is likely to adversely affect listed threatened or endangered species or designated critical habitat that are present on or near your project area.

Potential adverse effects from stormwater discharges and stormwater discharge-related activities include:

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- *Hydrological.* Stormwater discharges may cause siltation, sedimentation or induce other changes in receiving waters such as temperature, salinity or pH. These effects will vary with the amount of stormwater discharged and the volume and condition of the receiving water. Where a stormwater discharge constitutes a minute portion of the total volume of the receiving water, adverse hydrological effects are less likely. Construction activity itself may also alter drainage patterns on a site where construction occurs that can impact listed species or critical habitat.
- *Habitat.* Excavation, site development, grading, and other surface disturbance activities from construction activities, including the installation or placement of stormwater BMPs, may adversely affect listed species or their habitat. Stormwater may drain or inundate listed species habitat.
- *Toxicity.* In some cases, pollutants in stormwater may have toxic effects on listed species.

The scope of effects to consider will vary with each site. If you are having difficulty determining whether your project is likely to adversely affect listed species or critical habitat, or one of the Services has already raised concerns to you, you must contact the appropriate office of the FWS, NMFS or Natural Heritage Center for assistance. If adverse effects are not likely, then you may check box E on the NOI form and apply for coverage under the CGP. If the discharge may adversely effect listed species or critical habitat, you must follow Step Three.

Step Three: Determine if Measures Can Be Implemented to Avoid Adverse Effects
If you make a preliminary determination that adverse effects are likely to occur, you can still receive coverage under Criterion E of Part 1.3.C.6 of the CGP if appropriate measures are undertaken to avoid or eliminate the likelihood of adverse effects prior to applying for CGP coverage. These measures may involve relatively simple changes to construction activities such as re-routing a stormwater discharge to bypass an area where species are located, relocating BMPs, or by changing the "footprint" of the construction activity. You should contact the FWS and/or NMFS to see what appropriate measures might be suitable to avoid or eliminate the likelihood of adverse impacts to listed species and/or critical habitat. (See 50 CFR §402.13(b)). This can entail the initiation of informal consultation with the FWS and/or NMFS (described in more detail in Step Four).

If you adopt measures to avoid or eliminate adverse affects, you must continue to abide by those measures for the duration of the construction project and coverage under the CGP. These measures must be described in the SWPPP and are enforceable CGP conditions and/or conditions for meeting the eligibility criteria in Part 1.3. If appropriate measures to avoid the likelihood of adverse effects are not available, you must follow Step Four.

Step Four: Determine if the Eligibility Requirements of Criterion B, C, D, or F of Part 1.3.C.6 Can Be Met
Where adverse effects are likely, you must contact the FWS and/or NMFS. You may still be eligible for CGP coverage if any likely adverse effects can be addressed through meeting Criterion B, C, D, or F of Part 1.3.C.6 of the CGP. These criteria are as follows:

1. *An ESA Section 7 Consultation Is Performed for Your Activity (See Criterion B or C of Part 1.3.C.6 of the CGP).*

Formal or informal ESA section 7 consultation is performed with the FWS and/or NMFS that addresses the effects of your stormwater discharges and stormwater discharge-related activities on federally-listed and threatened species and designated critical habitat. FWS and/or NMFS may request that consultation take place if any actions are identified that may affect listed species or critical habitat. In order to be eligible for coverage under this permit, consultation must result in a "no jeopardy opinion" or a written concurrence by the Service(s) on a finding that your stormwater discharge(s) and stormwater discharge-related activities are not likely to adversely affect listed species or critical habitat (For more information on consultation, see 50 CFR §402). If you receive a "jeopardy opinion," you may continue to work with the FWS and/or NMFS and your permitting authority to modify your project so that it will not jeopardize listed species or designated critical habitat.

Most consultations are accomplished through informal consultation. By the terms of this CGP, EPA has automatically designated operators as non-federal representatives for the purpose of conducting informal consultations. See Part 1.3.C.6 and 50 CFR §402.08 and §402.13. When conducting informal ESA section 7 consultation as a non-federal representative, you must follow the procedures found in 50 CFR Part 402 of the ESA regulations. You must notify FWS and/or NMFS of your intention and agreement to conduct consultation as a non-federal representative.

Consultation may occur in the context of another federal action at the construction site (e.g., where ESA section 7 consultation was performed for issuance of a wetlands dredge and fill permit for the project or where a NEPA review is performed for the project that incorporates a section 7 consultation). Any terms and conditions developed through consultations to protect listed species and critical habitat must be incorporated into the SWPPP. As noted above, operators may, if they wish, initiate consultation with the Services at Step Four.

Whether ESA section 7 consultation must be performed with either the FWS, NMFS or both Services depends on the listed species that may be affected by the operator's activity. In general, NMFS has jurisdiction over marine, estuaries, and anadromous species. Operators should also be aware that while formal section 7 consultation provides protection from incidental takings liability, informal consultation does not.

2. *An Incidental Taking Permit Under Section 10 of the ESA is Issued for the Operators Activity (See Criterion D of Part 1.3.C.6 of the CGP).*

Your construction activities are authorized through the issuance of a permit under section 10 of the ESA and that authorization addresses the effects of your stormwater discharge(s) and stormwater discharge-related activities on federally-listed species and designated critical habitat. You must follow FWS and/or NMFS procedures when applying for an ESA Section 10 permit (see 50 CFR §17.22(b)(1) for FWS and §222.22

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for NMFS). Application instructions for section 10 permits for FWS and NMFS can be obtained by accessing the FWS and NMFS websites (http://www.fws.gov and http://www.nmfs.noaa.gov) or by contacting the appropriate FWS and NMFS regional office.

3. *You are Covered Under the Eligibility Certification of Another Operator for the Project Area (See Criterion F of Part 1.3.C.6 of the CGP).*

Your stormwater discharges and stormwater discharge-related activities were already addressed in another operator's certification of eligibility under Criteria A through E of Part 1.3.C.6 which also included your project area. For example, a general contractor or developer may have completed and filed an NOI for the entire project area with the necessary Endangered Species Act certifications (criteria A-E), subcontractors may then rely upon that certification and must comply with any conditions resulting from that process. By certifying eligibility under Criterion F of Part 1.3.C.6, you agree to comply with any measures or controls upon which the other operator's certification under Criterion B, C, or D of Part 1.3.C.6 was based. Certification under Criterion F of Part 1.3.C.6 is discussed in more detail in the Fact Sheet that accompanies this permit.

You must comply with any terms and conditions imposed under the eligibility requirements of Criterion A through F to ensure that your stormwater discharges and stormwater discharge-related activities are protective of listed species and/or critical habitat. Such terms and conditions must be incorporated in the project's SWPPP. If the eligibility requirements of Part 1.3.C.6 cannot be met, then you are not eligible for coverage under the CGP. In these instances, you may consider applying to EPA for an individual permit.

Appendix D - Small Construction Waivers and Instructions

These waivers are only available to stormwater discharges associated with small construction activities (i.e., 1-5 acres). As the operator of a small construction activity, you may be able to qualify for a waiver in lieu of needing to obtain coverage under this general permit based on: (A) a low rainfall erosivity factor, (B) a TMDL analysis, or (C) an equivalent analysis that determines allocations for small construction sites are not needed. Each operator, otherwise needing permit coverage, must notify EPA of its intention for a waiver. It is the responsibility of those individuals wishing to obtain a waiver from coverage under this general permit to submit a complete and accurate waiver certification as described below. Where the operator changes or another is added during the construction project, the new operator must also submit a waiver certification to be waived.

A. Rainfall Erosivity Waiver

Under this scenario the small construction project's rainfall erosivity factor calculation ("R" in the Revised Universal Soil Loss Equation) is less than 5 during the period of construction activity. The operator must certify to the EPA that construction activity will occur only when the rainfall erosivity factor is less than 5. The period of construction activity begins at initial earth disturbance and ends with final stabilization. Where vegetation will be used for final stabilization, the date of installation of a stabilization practice that will provide interim non-vegetative stabilization can be used for the end of the construction period, provided the operator commits (as a condition of waiver eligibility) to periodically inspect and properly maintain the area until the criteria for final stabilization as defined in the construction general permit have been met. If use of this interim stabilization eligibility condition was relied on to qualify for the waiver, signature on the waiver with its certification statement constitutes acceptance of and commitment to complete the final stabilization process. The operator must submit a waiver certification to EPA prior to commencing construction activities.

Note: The rainfall erosivity factor "R" is determined in accordance with Chapter 2 of Agriculture Handbook Number 703, Predicting Soil Erosion by Water: A Guide to Conservation Planning With the Revised Universal Soil Loss Equation (RUSLE), pages 21–64, dated January 1997; United States Department of Agriculture (USDA), Agricultural Research Service.

EPA has developed an online rainfall erosivity calculator to help small construction sites determine potential eligibility for the rainfall erosivity waiver.You can access the calculator from EPA's website at: www.epa.gov/npdes/stormwater/lew. The R factor can easily be calculated by using the construction site latitude/longitude or address and estimated start and end dates of construction. This calculator may also be useful in determining the time periods during which construction activity could be waived from permit coverage. You may find that moving your construction activity by a few weeks or expediting site stabilization will allow you to qualify for the waiver. Use this online calculator or the Construction Rainfall Erosivity Waiver Fact Sheet

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(www.epa.gov/npdes/pubs/fact3-1.pdf) to assist in determining the R Factor for your small construction site.

If you are the operator of the construction activity and eligible for a waiver based on low erosivity potential, you may submit a rainfall erosivity waiver electronically via EPA's eNOI system (www.epa.gov/npdes/eNOI) or provide the following information on the waiver certification form in order to be waived from permitting requirements:

1. Name, address and telephone number of the construction site operators;
2. Name (or other identifier), address, county or similar governmental subdivision, and latitude/longitude of the construction project or site;
3. Estimated construction start and completion (i.e., final stabilization) dates, and total acreage (to the nearest quarter acre) to be disturbed;
4. The rainfall erosivity factor calculation that applies to the active construction phase at your project site; and
5. A statement, signed and dated by an authorized representative as provided in Appendix G, Subsection 11, that certifies that the construction activity will take place during a period when the value of the rainfall erosivity factor is less than five.

You can access the waiver certification form from EPA's website at: (http://www.epa.gov/npdes/pubs/construction_waiver_form.pdf). Paper copies of the form must be sent to one of the addresses listed in Part D of this section.

Note: If the R factor is 5 or greater, you cannot apply for the rainfall erosivity waiver, and must apply for permit coverage as per Subpart 2.1 of the construction general permit, unless you qualify for the Water Quality Waiver as described below.

If your small construction project continues beyond the projected completion date given on the waiver certification, you must recalculate the rainfall erosivity factor for the new project duration. If the R factor is below five (5), you must update all applicable information on the waiver certification and retain a copy of the revised waiver as part of the site SWPPP. The new waiver certification must be submitted prior to the projected completion date listed on the original waiver form to assure your exemption from permitting requirements is uninterrupted. If the new R factor is five (5) or above, you must submit an NOI as per Part 2.

B. TMDL Waiver

This waiver is available if EPA has established or approved a TMDL that addresses the pollutant(s) of concern and has determined that controls on stormwater discharges from small construction activity are not needed to protect water quality. The pollutant(s) of concern include sediment (such as total suspended solids, turbidity or siltation) and any other pollutant that has been identified as a cause of impairment of any water body that will receive a discharge from the construction activity. Information on TMDLs that have been established or approved by EPA is available from EPA online at http://www.epa.gov/owow/tmdl/ and from state and tribal water quality agencies.

If you are the operator of the construction activity and eligible for a waiver based on compliance with an EPA established or approved TMDL, you must provide the following information on the Waiver Certification form in order to be waived from permitting requirements:

1. Name, address and telephone number of the construction site operator(s);
2. Name (or other identifier), address, county or similar governmental subdivision, and latitude/longitude of the construction project or site;
3. Estimated construction start and completion (i.e., final stabilization) dates, and total acreage (to the nearest quarter acre) to be disturbed;
4. The name of the water body(s) that would be receiving stormwater discharges from your construction project;
5. The name and approval date of the TMDL;
6. A statement, signed and dated by an authorized representative as provided in Appendix G, Subsection 11, that certifies that the construction activity will take place and that the stormwater discharges will occur, within the drainage area addressed by the TMDL.

C. Equivalent Analysis Waiver

This waiver is available for non-impaired waters only. The operator can develop an equivalent analysis that determines allocations for his small construction site for the pollutant(s) of concern or determines that such allocations are not needed to protect water quality. This waiver requires a small construction operator to develop an equivalent analysis based on existing in-stream concentrations, expected growth in pollutant concentrations from all sources, and a margin of safety.

If you are a construction operator who wants to use this waiver, you must develop your equivalent analysis and provide the following information to be waived from permitting requirements:

1. Name, address and telephone number of the construction site operator(s);
2. Name (or other identifier), address, county or similar governmental subdivision, and latitude/longitude of the construction project or site;
3. Estimated construction start and completion (i.e., final stabilization) dates, and total acreage (to the nearest quarter acre) to be disturbed;
4. The name of the water bodies that would be receiving stormwater discharges from your construction project;
5. Your equivalent analysis;
6. A statement, signed and dated by an authorized representative as provided in Appendix G, Subsection 11, that certifies that the construction activity will take place and that the stormwater discharges will occur, within the drainage area addressed by the equivalent analysis.

D. Waiver Deadlines and Submissions

1. Waiver certifications must be submitted prior to commencement of construction activities.
2. If you submit a TMDL or equivalent analysis waiver request, you are not waived until EPA approves your request. As such, you may not commence construction activities until receipt of approval from EPA.
3. Late Notifications: Operators are not prohibited from submitting waiver certifications after initiating clearing, grading, excavation activities, or other construction activities. The Agency reserves the right to take enforcement for any unpermitted discharges that occur between the time construction commenced and waiver authorization is granted.

Submittal of a waiver certification is an optional alternative to obtaining permit coverage for discharges of stormwater associated with small construction activity, provided you qualify for the waiver. Any discharge of stormwater associated with small construction activity not covered by either a permit or a waiver may be considered an unpermitted discharge under the Clean Water Act. As mentioned above, EPA reserves the right to take enforcement for any unpermitted discharges that occur between the time construction commenced and either discharge authorization is granted or a complete and accurate waiver certification is submitted. EPA may notify any operator covered by a waiver that they must apply for a permit. EPA may notify any operator who has been in non-compliance with a waiver that they may no longer use the waiver for future projects. Any member of the public may petition EPA to take action under this provision by submitting written notice along with supporting justification.

Complete and accurate Rainfall Erosivity waiver certifications not otherwise submitted electronically via EPA's eNOI system (www.epa.gov/npdes/eNOI) must be sent to one of the following addresses:

Regular U.S. Mail Delivery
EPA Stormwater Notice Processing Center
Mail Code 4203M
U.S. EPA
1200 Pennsylvania Avenue, NW
Washington, DC 20460

Overnight/Express Mail Delivery
EPA Stormwater Notice Processing Center
Room 7420
U.S. EPA
1201Constitution Avenue, NW
Washington, DC 20004

Complete and accurate TMDL or equivalent analysis waiver requests must be sent to the applicable EPA Region office specified in Appendix B.

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Appendix E - Notice of Intent Form and Instructions

From the effective date of this permit, operators are to use the Notice of Intent Form contained in this Appendix to obtain permit coverage.

Appendix F - Notice of Termination Form and Instructions

From the effective date of this permit, operators are to use the Notice of Termination Form contained in this Appendix to terminate permit coverage.

Appendix G - Standard Permit Conditions

STANDARD PERMIT CONDITIONS

1. Duty To Comply

You must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Clean Water Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

A. You must comply with effluent standards or prohibitions established under section 307(a) of the Clean Water Act for toxic pollutants and with standards for sewage sludge use or disposal established under section 405(d) of the CWA within the time provided in the regulations that establish these standards or prohibitions or standards for sewage sludge use or disposal, even if the permit has not yet been modified to incorporate the requirement.

B. The Clean Water Act provides that any person who violates section 301, 302, 306, 307, 308, 318 or 405 of the Act, or any permit condition or limitation implementing any such sections in a permit issued under section 402, or any requirement imposed in a pretreatment program approved under sections 402(a)(3) or 402(b)(8) of the Act, is subject to a civil penalty not to exceed the maximum amounts authorized by Section 309(d) of the Act and the Federal Civil Penalties Inflation Adjustment Act (28 U.S.C. §2461 note) as amended by the Debt Collection Improvement Act (31 U.S.C. §3701 note) (currently $27,500 per day for each violation).

The Clean Water Act provides that any person who negligently violates sections 301, 302, 306, 307, 308, 318, or 405 of the Act, or any condition or limitation implementing any of such sections in a permit issued under section 402 of the Act, or any requirement imposed in a pretreatment program approved under section 402(a)(3) or 402(b)(8) of the Act, is subject to criminal penalties of $2,500 to $25,000 per day of violation, or imprisonment of not more than 1 year, or both. In the case of a second or subsequent conviction for a negligent violation, a person shall be subject to criminal penalties of not more than $50,000 per day of violation, or by imprisonment of not more than 2 years, or both. Any person who knowingly violates such sections, or such conditions or limitations is subject to criminal penalties of $5,000 to $50,000 per day of violation, or imprisonment for not more than 3 years, or both. In the case of a second or subsequent conviction for a knowing violation, a person shall be subject to criminal penalties of not more than $100,000 per day of violation, or imprisonment of not more than 6 years, or both. Any person who knowingly violates section 301, 302, 303, 306, 307, 308, 318 or 405 of the Act, or any permit condition or limitation implementing any of such sections in a permit issued under section 402 of the Act, and who knows at that time that he thereby places another person in imminent danger of death or serious bodily injury, shall, upon conviction, be subject to a fine of not more than $250,000 or imprisonment of not more than 15 years, or both. In the case of a second or subsequent conviction for a knowing endangerment violation, a person shall be subject to a fine of not more than $500,000 or by imprisonment of not more than 30 years, or both. An organization, as defined in section 309(c)(3)(B)(iii) of the CWA, shall, upon conviction of violating the imminent danger provision, be subject to a fine of not more than $1,000,000 and can be fined up to $2,000,000 for second or subsequent convictions.

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C. Any person may be assessed an administrative penalty by the Administrator for violating section 301, 302, 306, 307, 308, 318 or 405 of this Act, or any permit condition or limitation implementing any of such sections in a permit issued under section 402 of this Act. Pursuant to 40 CFR Part 19 and the Act, administrative penalties for Class I violations are not to exceed the maximum amounts authorized by Section 309(g)(2)(A) of the Act and the Federal Civil Penalties Inflation Adjustment Act (28 U.S.C. §2461 note) as amended by the Debt Collection Improvement Act (31 U.S.C. §3701 note) (currently $11,000 per violation, with the maximum amount of any Class I penalty assessed not to exceed $27,500). Pursuant to 40 CFR Part 19 and the Act, penalties for Class II violations are not to exceed the maximum amounts authorized by Section 309(g)(2)(B) of the Act and the Federal Civil Penalties Inflation Adjustment Act (28 U.S.C. §2461 note) as amended by the Debt Collection Improvement Act (31 U.S.C. §3701 note) (currently $11,000 per day for each day during which the violation continues, with the maximum amount of any Class II penalty not to exceed $137,500).

2. Duty to Reapply

If you wish to continue an activity regulated by this permit after the expiration date of this permit, you must apply for and obtain a new permit.

3. Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for you in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

4. Duty to Mitigate

You must take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

5. Proper Operatiou and Maintenance

You must at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by you to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities or similar systems which are installed by you only when the operation is necessary to achieve compliance with the conditions of this permit.

6. Permit Actions

This permit may be modified, revoked and reissued, or terminated for cause. Your filing of a request for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.

7. Property Rights

This permit does not convey any property rights of any sort, or any exclusive privileges.

8. Duty to Provide Information

You must furnish to EPA, within a reasonable time, any information which EPA may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. You must also furnish to EPA upon request, copies of records required to be kept by this permit.

9. Inspection and Entry

You must allow EPA, or an authorized representative (including an authorized contractor acting as a representative of the Administrator), upon presentation of credentials and other documents as may be required by law, to:

A. Enter upon your premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;

B. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

C. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and

D. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act, any substances or parameters at any location.

10. Monitoring and Records

A. Samples and measurements taken for the purpose of monitoring must be representative of the monitored activity.

B. You must retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the sample, measurement, report or application. This period may be extended by request of EPA at any time.

C. Records of monitoring information must include:
   1. The date, exact place, and time of sampling or measurements;
   2. The individual(s) who performed the sampling or measurements;
   3. The date(s) analyses were performed
   4. The individual(s) who performed the analyses;
   5. The analytical techniques or methods used; and
   6. The results of such analyses.

D. Monitoring results must be conducted according to test procedures approved under 40 CFR Part 136 or, in the case of sludge use or disposal, approved under 40 CFR Part 136 unless otherwise specified in 40 CFR Part 503, unless other test procedures have been specified in the permit.

E. The Clean Water Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than $10,000, or by imprisonment for not more than 2 years, or both. If a conviction of a person is for a violation committed after a first conviction of such person under this paragraph, punishment is a fine of not more than $20,000 per day of violation, or by imprisonment of not more than 4 years, or both.

11. Signatory Requirements

A. All applications, including NOIs, must be signed as follows:
   1. For a corporation: By a responsible corporate officer. For the purpose of this Part, a responsible corporate officer means: (i) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any

other person who performs similar policy- or decision-making functions for the corporation, or (ii) the manager of one or more manufacturing, production, or operating facilities, provided, the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

2. For a partnership or sole proprietorship: By a general partner or the proprietor, respectively; or
3. For a municipality, state, federal, or other public agency: By either a principal executive officer or ranking elected official. For purposes of this Part, a principal executive officer of a federal agency includes (i) the chief executive officer of the agency, or (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrator of EPA).

B. All reports required by this permit, including SWPPPs, must be signed by a person described in Appendix G, Subsection 11.A above or by a duly authorized representative of that person. A person is a duly authorized representative only if:
   1. The authorization is made in writing by a person described in Appendix G, Subsection 11.A;
   2. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position); and
   3. The signed and dated written authorization is included in the SWPPP. A copy must be submitted to EPA, if requested.

C. Changes to Authorization. If an authorization under Part 2.1 is no longer accurate because a different operator has responsibility for the overall operation of the construction site, a new NOI satisfying the requirements of Part 2.1 must be submitted to EPA prior to or together with any reports, information, or applications to be signed by an authorized representative. The change in authorization must be submitted within the time frame specified in Part 2.4, and sent to the address specified in Part 2.2.

D. Any person signing documents required under the terms of this permit must include the following certification:
   "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons

directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

E. The CWA provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or non-compliance shall, upon conviction, be punished by a fine of not more than $10,000 per violation, or by imprisonment for not more than 6 months per violation, or by both.

12. Reporting Requirements

A. Planned changes. You must give notice to EPA as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when:
   1. The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in 40 CFR §122.29(b); or
   2. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in the permit, nor to notification requirements under 40 CFR §122.42(a)(1).

B. Anticipated noncompliance. You must give advance notice to EPA of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

C. Transfers. This permit is not transferable to any person except after notice to EPA. EPA may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary under the Clean Water Act. (See 40 CFR §122.61; in some cases, modification or revocation and reissuance is mandatory.)

D. Monitoring reports. Monitoring results must be reported at the intervals specified elsewhere in this permit.
   1. Monitoring results must be reported on a Discharge Monitoring Report (DMR) or forms provided or specified by EPA for reporting results of monitoring of sludge use or disposal practices.
   2. If you monitor any pollutant more frequently than required by the permit using test procedures approved under 40 CFR Part 136 or, in the case of sludge use or disposal, approved under 40 CFR Part 136 unless otherwise specified in 40 CFR Part 503, or as specified in the permit, the results of this monitoring must be included in the calculation and reporting of the data submitted in the DMR or sludge reporting form specified by EPA.
   3. Calculations for all limitations which require averaging of measurements must use an arithmetic mean.

E. Compliance schedules. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit must be submitted no later than 14 days following each schedule date.

F. Twenty-four hour reporting.

1. You must report any noncompliance which may endanger health or the environment. Any information must be provided orally within 24 hours from the time you become aware of the circumstances. A written submission must also be provided within five days of the time you become aware of the circumstances. The written submission must contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.
2. The following shall be included as information which must be reported within 24 hours under this paragraph.
   a. Any unanticipated bypass which exceeds any effluent limitation in the permit. (See 40 CFR §122.41(g).)
   b. Any upset which exceeds any effluent limitation in the permit
   c. Violation of a maximum daily discharge limitation for any of the pollutants listed by EPA in the permit to be reported within 24 hours. (See 40 CFR §122.44(g).)

13. EPA may waive the written report on a case-by-case basis for reports under Appendix G, Subsection 12.F.2 if the oral report has been received within 24 hours.

G. Other noncompliance. You must report all instances of noncompliance not reported under Appendix G, Subsections 12.D, 12.E, and 12.F, at the time monitoring reports are submitted. The reports must contain the information listed in Appendix G, Subsection 12.F.

H. Other information. Where you become aware that you failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Permitting Authority, you must promptly submit such facts or information.

13. Bypass

A. Definitions.
   1. Bypass means the intentional diversion of waste streams from any portion of a treatment facility
   2. Severe property damage means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.

B. Bypass not exceeding limitations. You may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Appendix G, Subsections 13.C and 13.D.

C. Notice–
   1. Anticipated bypass. If you know in advance of the need for a bypass, you must submit prior notice, if possible at least ten days before the date of the bypass.
   2. Unanticipated bypass. You must submit notice of an unanticipated bypass as required in Appendix G, Subsection 12.F (24-hour notice).

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D. Prohibition of bypass.
   1. Bypass is prohibited, and EPA may take enforcement action against you for bypass, unless:
      a. Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
      b. There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
      c. You submitted notices as required under Appendix G, Subsection 13.C.
   2. EPA may approve an anticipated bypass, after considering its adverse effects, if EPA determines that it will meet the three conditions listed above in Appendix G, Subsection 13.D.1.

14. Upset

A. Definition. Upset means an exceptional incident in which there is unintentional and temporary noncompliance with technology based permit effluent limitations because of factors beyond your reasonable control. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.

B. Effect of an upset. An upset constitutes an affirmative defense to an action brought for noncompliance with such technology based permit effluent limitations if the requirements of Appendix G, Subsection 14.C are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review.

C. Conditions necessary for a demonstration of upset. A permittee who wishes to establish the affirmative defense of upset must demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
   1. An upset occurred and that you can identify the cause(s) of the upset;
   2. The permitted facility was at the time being properly operated; and
   3. You submitted notice of the upset as required in Appendix G, Subsection 12.F.2.b(24 hour notice).
   4. You complied with any remedial measures required under Appendix G, Section 4.

D. Burden of proof. In any enforcement proceeding, you, as the one seeking to establish the occurrence of an upset, has the burden of proof.

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:

Homeca Recycling Center Co, Inc

Hoja de Asistencia Entrenamientos Personal	
Fecha : 5/3/2011	Hora: 9:30am
Entrenador (a): Tamara Echevarria	Facilidad: Procaribe
Tópico Discutido: **HAZCOM**	

Empleados Presentes:

Nombre:	Firma:
1.Ederick Caquias	
2.Xiomara Torres	
3.Marcos Valdés	
4.Angel Figueroa	
5.Eliseo Caraballo	
6.Eligio Ortiz	
7.Jose N. Hernández	
8.Juan Domenech	
9.Wilfreo Almodóvar	
10. Joel Santos	Joel Santos
11. Ruben Negrón	Rubén Negrón
12.	
13.	
14.	
15.	
16.	
17.	
18.	
19.	
20.	

Comentarios específicos del entrenamiento:

Se discutió reglamento de OSHA 1910.1200, MSDS, Etiquetas/ Tipos de Etiquetas, Escala de Comunicación de Riesgo, Donde conseguir la información, productos de exposición, riesgos asociados, como identificarlos, rotulación al transferir, etiquetas, Tiempo para la adiestramientos. Forma de detectar presencia de químicos y transportación.

Tópicos a Discutir en Programa Comunicación de Riesgos

Requisitos Básicos de Comunicación de Riesgo

La Administración para la Salud y Seguridad Ocupacional (OSHA) por sus siglas en ingles), a través de la Reglamentación Federal, 29 CFR Parte 1910.1200-Norma de Comunicación de Riesgos o "Derecho a Saber", tiene el propósito de reducir la incidencia de lesiones y enfermedades ocupacionales asociadas con la exposición a sustancias químicas peligrosas. La norma requiere el desarrollo e implantación de un Programa Escrito de Comunicación e Riesgo para proteger a los empelados de los riesgos físicos y a la salud, asociados a estas sustancias químicas peligrosas presentes en el lugar de trabajo y que la información que se obtiene se le comunique a todos los empelados cubiertos por la norma.

Ustedes deben conocer:

1) donde conseguir la información,
2) productos a los cuales están expuestos,
3) los riesgos asociados a estos y como identificarlos.
4) Tiempo de adiestramiento

Donde conseguir la información:

Discutir: Símbolo, Etiquetas, MSDS, a que aplica y que no aplica al MSDS,

La Determinación del Riesgo lo hace Manufacturero

Riegos asociados

1) En ocasiones los productos que utilizamos en el trabajo NO son más peligrosos de los que utilizamos en nuestras casas.

   Ejemplo: Easy Off

2) Importancia de la identificación de productos:

   Norma de 8 horas y debida rotulación (Uso inmediato)

   Rotulación rota

Si no sabe lo que es: NO LO USE!

Pedir MSDS en cada compra

Tipos de Etiqueta

Discutir Listado de Químicos y riesgos

Medidas de Protección

Tiempo de Adiestramiento

Anual o cuando cambie sustancias.

3) Transportación adecuada de los productos

Forma de detectar presencia de químico

Producto toxico q no huele o irritante

Ej. Mina canario

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Escala de Comunicación de Riesgo

0 Mínimo

1 Poco

2 Moderado

3 Serio

4 Extremo

Colores

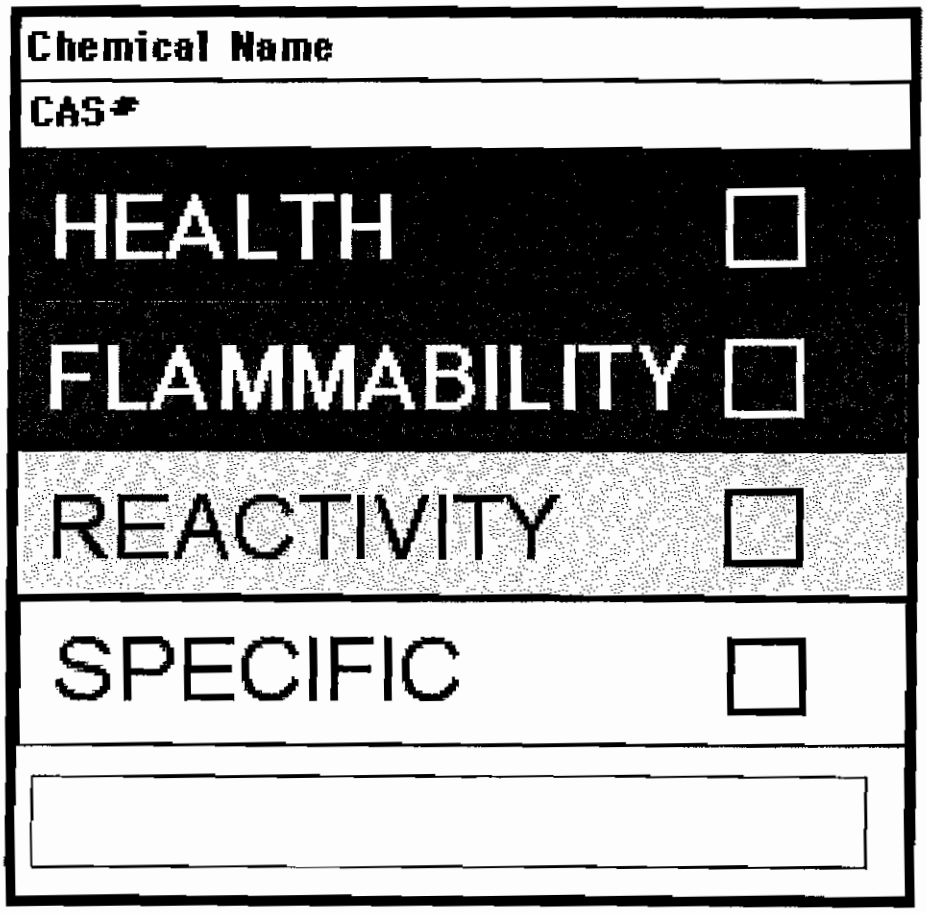
Rojo= Flamabilidad (Fuego)

Azul= Salud (toxicidad)

Amarillo= Reactividad

Blanco= Instrucciones Especiales

FLAMMABLE
4 Extremely flamable
3 Ignites at normal temperatures
2 Ignites when moderately heated
1 Must be preheated to burn
0 Will not burn
HEALTH
4 Too dangerous to enter vapor or Liquid
3 Extremely dangerous use full proctective clothing
2 Hazardous - Use breathing apparatus
1 Slightly hazardous
0 Like ordinary material
INSTABILITY
4 May detonate - Vacate area if materials are exposed to fire
3 Strong shock or heat may detonate - Use monitors from behind explosive resistan barriers
2 Violent chemical change possible - Use hose streams from distance
1 Unstable if heated - Use normal precautions
0 Normally stable
4
3
3
W


Chemical Name
CAS#
HEALTH
FLAMMABILITY
REACTIVITY
SPECIFIC

HMIS

CHEMICAL NAME

CHECK APPROPRIATE BOXES

ROUTE OF ENTRY

( ) INGESTION
( ) INHALATION
( ) SKIN ABSORPTION

HEALTH HAZARDS

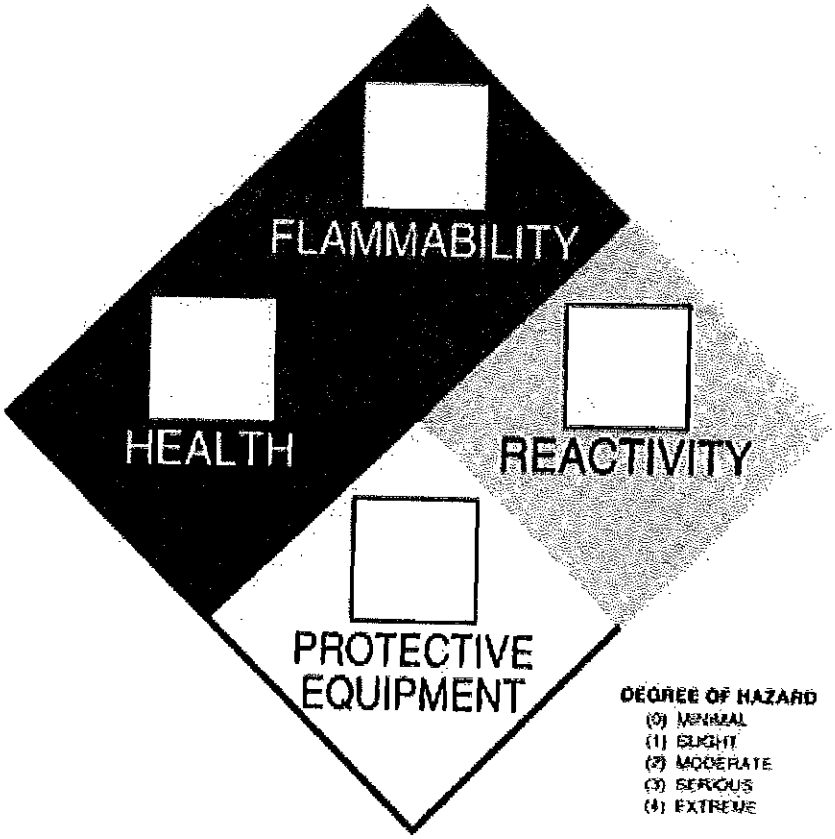
( ) CARCINOGEN
( ) CORROSIVE
( ) IRRITANT
( ) TOXIC

PHYSICAL HAZARDS

( ) COMBUSTIBLE LIQUID
( ) COMPRESSED GAS
( ) EXPLOSIVE
( ) FLAMMABLE
( ) FLAMMABLE GAS
( ) OXIDIZER
( ) PYROPHORIC
( ) REACTIVE

TARGET ORGANS & AFFECTS

( ) BLOOD
( ) CARDIOVASCULAR SYSTEM
( ) EYES
( ) KIDNEY
( ) LIVER
( ) MUCOUS MEMBRANE
( ) RESPIRATORY SYSTEM
( ) SKIN



DEGREE OF HAZARD
(0) MINIMAL
(1) SLIGHT
(2) MODERATE
(3) SERIOUS
(4) EXTREME

NFPA


FLAMMABLE LIQUID
3


DANGER
ACID

Homeca Recycling Center Co, Inc.

Nombre: Clara

Fecha: _____

Tema: Comunicación de Riesgo (HAZCOM)

1) ¿Qué agencia requiere el Programa de Comunicación de Riesgo o "Derecho a Saber" o HAZCOM y adiestramiento bajo la norma 1910.1200?
   a. Junta de Calidad Ambiental
   b. Recuerdos Naturales y Ambientales
   c. Administración de Salud y Seguridad Ocupacional (OSHA por sus siglas en ingles)
   d. Administración de Servicios Generales
2) ¿Cada cuanto tiempo se tiene que dar el entrenamiento de HAZCOM?
   a. Anual
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   d. a y c
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   a. Salud,
   b. Fuego, Flamabilidad
   c. Reactividad
   d. DOT
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   a. Si
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   c. A veces
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6) ¿Dónde puede obtener una copia del Programa de HAZCOM (Llsta de Productos, MSDS y Programa)?
   a. Oficina Recursos Humanos
   b. Almacén de Productos
   c. Oficina del Proyecto
   d. Solicitándola en cualquier momento

   cualquiera o todas
7) ¿Cuando es necesario etiquetar el envase?
   a. Cuando lo transfiero
   b. En todo momento
   c. Nunca
   d. a y b

   cualquier o todo

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Homeca Recycling Center Co, Inc.

Nombre: Chijo Ortiz

Fecha: 3 - mayo 2011

Tema: Comunicación de Riesgo (HAZCOM)

1) ¿Qué agencia requiere el Programa de Comunicación de Riesgo o "Derecho a Saber" o HAZCOM y adiestramiento bajo la norma 1910.1200?
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HOMECA RECYCLING CENTER CO., INC.

ADIESTRAMIENTO SOBRE EL PROGRAMA DE COMUNICACION DE RIESGOS

NOMBRE: Elegio Ortiz

DEPT.: 3 - Mayo 2011

FECHA: 3 - MAYO - 2011

TOPICOS DISCUTIDOS:

E-OR 1. Requisitos Básicos del Programa de Comunicación de Riesgos.

E-OR 2. Localización y disponibilidad del Programa de Comunicación de Riesgos y MSDS.

E-OR 3. Lista de Químicos.

E-OR 4. Evaluación de Riesgos.

E-OR 5. Peligros Físicos y a la Salud.

E-OR 6. Rotulación de Envases/Etiquetas.

E-OR 7. Localización y Disponibilidad de los MSDS.

E-OR 8. Como Leer y usar los MSDS.

E-OR 9. Operaciones en mi área de trabajo que se usan químicos o solventes clasificados como de riesgos.

E-OR 10. Métodos para detectar derrames químicos peligrosos / métodos de control.

E-OR 11. Procedimientos de emergencia.

FIRMA DEL EMPLEADO: Elegio Ortiz Rodriguez

FIRMA DEL SUPERVISOR:

FIRMA DEL INSTRUCTOR:

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HOMECA RECYCLING CENTER CO., INC.

ADIESTRAMIENTO SOBRE EL PROGRAMA DE COMUNICACION DE RIESGOS

NOMBRE: Jose M Hernandez

DEPT.: _____

FECHA: 0-5-3-11

TOPICOS DISCUTIDOS:

JMH √1. Requisitos Básicos del Programa de Comunicación de Riesgos.

JMH √2. Localización y disponibilidad del Programa de Comunicación de Riesgos y MSDS.

JMH √3. Lista de Químicos.

JMH √4. Evaluación de Riesgos.

JMH √5. Peligros Físicos y a la Salud.

JMH √6. Rotulación de Envases/Etiquetas.

JMH √7. Localización y Disponibilidad de los MSDS.

JMH √8. Como Leer y usar los MSDS.

JMH √9. Operaciones en mi área de trabajo que se usan químicos o solventes clasificados como de riesgos.

JMH √10. Métodos para detectar derrames químicos peligrosos / métodos de control.

JMH √11. Procedimientos de emergencia.

FIRMA DEL EMPLEADO: Jose M Hernandez

FIRMA DEL SUPERVISOR: _____

FIRMA DEL INSTRUCTOR: _____

Homeca Recycling Center Co, Inc.

Nombre: Jose M Hernandez

Fecha: 05-3-14

Tema: Comunicación de Riesgo (HAZCOM)

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   d) a y b

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Homeca Recycling Center Co, Inc.

Nombre: Rubén Negrón

Fecha: 05-3-11

Tema: Comunicación de Riesgo (HAZCOM)

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HOMECA RECYCLING CENTER CO., INC.

ADIESTRAMIENTO SOBRE EL PROGRAMA DE COMUNICACION DE RIESGOS

NOMBRE: Ruben Vegon

DEPT.: _____

FECHA: 05-3-11

TOPICOS DISCUTIDOS:

R N ✓ 1. Requisitos Básicos del Programa de Comunicación de Riesgos.

R N ✓ 2. Localización y disponibilidad del Programa de Comunicación de Riesgos y MSDS.

R N ✓ 3. Lista de Químicos.

R N ✓ 4. Evaluación de Riesgos.

R N ✓ 5. Peligros Físicos y a la Salud.

R N ✓ 6. Rotulación de Envases/Etiquetas.

R N ✓ 7. Localización y Disponibilidad de los MSDS.

R N ✓ 8. Como Leer y usar los MSDS.

R N ✓ 9. Operaciones en mi área de trabajo que se usan químicos o solventes clasificados como de riesgos.

R N ✓ 10. Métodos para detectar derrames químicos peligrosos / métodos de control.

R N ✓ 11. Procedimientos de emergencia.

FIRMA DEL EMPLEADO: Ruben Vegon

FIRMA DEL SUPERVISOR: _____

FIRMA DEL INSTRUCTOR: _____

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Homeca Recycling Center Co, Inc.

Nombre: Xiomara Torres

Fecha: Mayo 3 - 2011

Tema: Comunicación de Riesgo (HAZCOM)

1) ¿Qué agencia requiere el Programa de Comunicación de Riesgo o "Derecho a Saber" o HAZCOM y adiestramiento bajo la norma 1910.1200?
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HOMECA RECYCLING CENTER CO., INC.

ADIESTRAMIENTO SOBRE EL PROGRAMA DE COMUNICACION DE RIESGOS

NOMBRE: Xiomara Torres Rivera

DEPT.: _____

FECHA: _____

TOPICOS DISCUTIDOS:

X T 1. Requisitos Básicos del Programa de Comunicación de Riesgos.

X T 2. Localización y disponibilidad del Programa de Comunicación de Riesgos y MSDS.

X T 3. Lista de Químicos.

X T 4. Evaluación de Riesgos.

X T 5. Peligros Físicos y a la Salud.

X T 6. Rotulación de Envases/Etiquetas.

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X T 8. Como Leer y usar los MSDS.

9. Operaciones en mi área de trabajo que se usan químicos o solventes clasificados como de riesgos.

X T 10. Métodos para detectar derrames químicos peligrosos / métodos de control.

11. Procedimientos de emergencia.

FIRMA DEL EMPLEADO: Xiomara Torres

FIRMA DEL SUPERVISOR: _____

FIRMA DEL INSTRUCTOR: _____

HOMECA RECYCLING CENTER CO., INC.

ADIESTRAMIENTO SOBRE EL PROGRAMA DE COMUNICACION DE RIESGOS

NOMBRE: Marcos Valdés

DEPT.: _____

FECHA: 05 03 11

TOPICOS DISCUTIDOS:

1. Requisitos Básicos del Programa de Comunicación de Riesgos.
2. Localización y disponibilidad del Programa de Comunicación de Riesgos y MSDS.
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11. Procedimientos de emergencia.

FIRMA DEL EMPLEADO: Marcos Valdés

FIRMA DEL SUPERVISOR: n/a

FIRMA DEL INSTRUCTOR: [signature]

Homeca Recycling Center Co, Inc.

Nombre: Marcos Valdés

Fecha: 05 03 11

Tema: Comunicación de Riesgo (HAZCOM)

1) ¿Qué agencia requiere el Programa de Comunicación de Riesgo o "Derecho a Saber" o HAZCOM y adiestramiento bajo la norma 1910.1200?
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Homeca Recycling Center Co, Inc.

Nombre: Wilfredo Almodovar

Fecha: 3 Mayo 2011

Tema: Comunicación de Riesgo (HAZCOM)

1) ¿Qué agencia requiere el Programa de Comunicación de Riesgo o "Derecho a Saber" o HAZCOM y adiestramiento bajo la norma 1910.1200?
   a. Junta de Calidad Ambiental
   b. Recuerdos Naturales y Ambientales
   c. Administración de Salud y Seguridad Ocupacional (OSHA por sus siglas en ingles)
   d. Administración de Servicios Generales
2) ¿Cada cuanto tiempo se tiene que dar el entrenamiento de HAZCOM?
   a. Anual
   b. Mensual
   c. Cuando cambien o se incluyan sustancias
   d. a y c
3) ¿El color rojo significa?
   a. Salud,
   b. Fuego, Flamabilidad
   c. Reactividad
   d. DOT
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   a. Si
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   c. A veces
   d. No se
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   b. Almacén de Productos
   c. Oficina del Proyecto
   d. Solicitándola en cualquier momento
7) ¿Cuando es necesario etiquetar el envase?
   a. Cuando lo transfiero
   b. En todo momento
   c. Nunca
   d. a y b

HOMECA RECYCLING CENTER CO., INC.

ADIESTRAMIENTO SOBRE EL PROGRAMA DE COMUNICACION DE RIESGOS

NOMBRE: Wilfredo Almodóvar

DEPT.: _____

FECHA: 3 Mayo 2011

TOPICOS DISCUTIDOS:

WAR 1. Requisitos Básicos del Programa de Comunicación de Riesgos.

WAR 2. Localización y disponibilidad del Programa de Comunicación de Riesgos y MSDS.

3. Lista de Químicos.

WAR 4. Evaluación de Riesgos.

WAR 5. Peligros Físicos y a la Salud.

WAR 6. Rotulación de Envases/Etiquetas.

WAR 7. Localización y Disponibilidad de los MSDS.

WAR 8. Como Leer y usar los MSDS.

WAR 9. Operaciones en mi área de trabajo que se usan químicos o solventes clasificados como de riesgos.

WAR 10. Métodos para detectar derrames químicos peligrosos / métodos de control.

WAR 11. Procedimientos de emergencia.

FIRMA DEL EMPLEADO: Wilfredo Almodóvar

FIRMA DEL SUPERVISOR: _____

FIRMA DEL INSTRUCTOR: _____

HOMECA RECYCLING CENTER CO., INC.

ADIESTRAMIENTO SOBRE EL PROGRAMA DE COMUNICACION DE RIESGOS

NOMBRE: Eliseo Caraballo Martinez

DEPT.: _____

FECHA: 3 - MAYO - 2021

TOPICOS DISCUTIDOS:

E.C.M. 1. Requisitos Básicos del Programa de Comunicación de Riesgos.

E.C.M. 2. Localización y disponibilidad del Programa de Comunicación de Riesgos y MSDS.

E.C.M. 3. Lista de Químicos.

E.C.M. 4. Evaluación de Riesgos.

E.C.M. 5. Peligros Físicos y a la Salud.

E.C.M. 6. Rotulación de Envases/Etiquetas.

E.C.M. 7. Localización y Disponibilidad de los MSDS.

E.C.M. 8. Como Leer y usar los MSDS.

E.C.M. 9. Operaciones en mi área de trabajo que se usan químicos o solventes clasificados como de riesgos.

E.C.M. 10. Métodos para detectar derrames químicos peligrosos / métodos de control.

E.C.M. 11. Procedimientos de emergencia.

FIRMA DEL EMPLEADO: Eliseo Caraballo Martinez

FIRMA DEL SUPERVISOR: _____

FIRMA DEL INSTRUCTOR: _____

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Homeca Recycling Center Co, Inc.

Nombre: Eliseo Caraballo

Fecha: 3 MAYO 2011

Tema: Comunicación de Riesgo (HAZCOM)

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HOMECA RECYCLING CENTER CO., INC.

ADIESTRAMIENTO SOBRE EL PROGRAMA DE COMUNICACION DE RIESGOS

NOMBRE: Juan C Domenech Toledo

DEPT.: _____

FECHA: 3 de Mayo de 2011

TOPICOS DISCUTIDOS:

JCD 1. Requisitos Básicos del Programa de Comunicación de Riesgos.

JCD 2. Localización y disponibilidad del Programa de Comunicación de Riesgos y MSDS.

JCD 3. Lista de Químicos.

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JCD 10. Métodos para detectar derrames químicos peligrosos / métodos de control.

JCD 11. Procedimientos de emergencia.

FIRMA DEL EMPLEADO: Juan C Domenech Toledo

FIRMA DEL SUPERVISOR: _____

FIRMA DEL INSTRUCTOR: _____

Homeca Recycling Center Co, Inc.

Nombre: Sean Domenech

Fecha: 3 de Mayo de 2011

Tema: Comunicación de Riesgo (HAZCOM)

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HOMECA RECYCLING CENTER CO., INC.

ADIESTRAMIENTO SOBRE EL PROGRAMA DE COMUNICACION DE RIESGOS

NOMBRE: [signature]

DEPT.: _____

FECHA: 5/3/11

TOPICOS DISCUTIDOS:

EJC. ✓ 1. Requisitos Básicos del Programa de Comunicación de Riesgos.

EJC. ✓ 2. Localización y disponibilidad del Programa de Comunicación de Riesgos y MSDS.

EJC. ✓ 3. Lista de Químicos.

EJC. ✓ 4. Evaluación de Riesgos.

EJC. ✓ 5. Peligros Físicos y a la Salud.

EJC. ✓ 6. Rotulación de Envases/Etiquetas.

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EJC. ✓ 10. Métodos para detectar derrames químicos peligrosos / métodos de control.

EJC. ✓ 11. Procedimientos de emergencia.

FIRMA DEL EMPLEADO: [signature]
FIRMA DEL SUPERVISOR: [signature]
FIRMA DEL INSTRUCTOR: [signature]

Homeca Recycling Center Co, Inc.

Nombre: Edrick J. Cajas

Fecha: 5/3/11

Tema: Comunicación de Riesgo (HAZCOM)

1) ¿Qué agencia requiere el Programa de Comunicación de Riesgo o "Derecho a Saber" o HAZCOM y adiestramiento bajo la norma 1910.1200?
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RECKITT BENCKISER

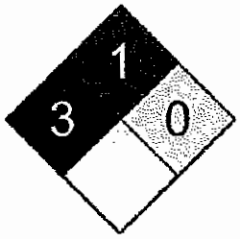
HOJA DE DATOS DE SEGURIDAD

1. Identificación del producto y de la compañía

Nombre del producto	**EASY-OFF® Oven Cleaner - Heavy Duty**
UPC códigos	Corresponden a la sección 16
# CAS	Mezcla
Uso del producto	Limpiador de horno
Fabricante	Reckitt Benckiser Morris Corporate Center IV 399 Interpace Parkway P.O. Box 225 Parsippany, NJ 07054-0225 En caso de emergencia: 1-800-228-4722 Transporte emergencias: 24 horas Número de: América del Norte: CHEMTREC: 1-800-424-9300 Fuera de los Estados Unidos: 1-703-527-3887

REFERENCIA HMIS/NFPA	
Severo	4
Serio	3
Moderado	2
Ligeramente	1
Mínimo	0





2. Identificación de riesgos

Resumen de emergencias

PELIGRO -- CORROSIVO
CONTAINS SODIUM HYDROXIDE (LYE).
EL CONTACTO PROVOCA QUEMADURAS EN LA PIEL Y LOS OJOS.
NOCIVO POR INGESTIÓN.
Contenido bajo presión.
Evitar el contacto con los ojos, la piel, las membranas mucosas y la ropa. No ingerir. Usar solamente con ventilación adecuada. Evitar la respiración de la bruma de la pulverización. Usar guantes largos de caucho cuando se usa.

MANTÉNGASE FUERA DEL ALCANCE DE LOS NIÑOS.

Efectos potenciales a corto plazo para la salud

Vías de exposición	Ojos, contacto con la piel, inhalación, ingestión.
Ojos	Causa quemaduras.
Piel	Causa quemaduras.
Inhalación	No se espero ninguno durante condiciones normales de uso. Cualquier mal uso intencional del contenido de este producto debido a su concentración e inhalación deliberadas puede ser nocivo o fatal.
Ingestión	Nocivo en caso de ingestión.
Órganos establecidos	Ojos. Sistema respiratorio. Piel. Sistema gastrointestinal.
Efectos crónica	No se esperan efectos crónicos sobre la salud relacionados con el producto terminado.
Señas y síntomas	El producto causa quemaduras en los ojos, piel y membranas mucosas.

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3. Composición / Información sobre los ingredientes

Ingrediente(s)	# CAS	Porcentaje
Eter monobutílico del dietilen glicol	112-34-5	2.5 - 10
Gases del petróleo, licuados, desazufrados	68476-86-8	2.5 - 10
Hidróxido de sodio	1310-73-2	2.5 - 10
Etanolamina	141-43-5	1 - 2.5

4. Medidas de primeros auxilios

Procedimientos de primeros auxilios

Contacto con los ojos	Enjuagar INMEDIATAMENTE los ojos con agua. Retirar las lentes de contacto y continuar enjuagando durante al menos 15 minutos. Si la irritación persiste, consultar de inmediato con el médico.
Contacto con la piel	Enjuagar INMEDIATAMENTE y quitarse la ropa contaminada. Lavar a fondo con agua y jabón y continuar enjuagando durante al menos 10 minutos. Si las molestias continúan, consultar de inmediato con el médico.
Inhalación	Salga al aire libre. Si aparecen o persisten los síntomas, consultar con el médico.
Ingestión	No provoque vómitos. Enjuagar la boca a fondo y solicitar asistencia médica de inmediato.
Notas para el médico	Tratar al paciente según sus síntomas.
Consejo general	Mantener alejado de fuentes de ignición. No fumar. En caso de malestar, acuda al médico (si es posible, muéstrele la etiqueta). Asegúrese de que el personal médico tenga conocimiento de los materiales involucrados y tome las precauciones adecuadas para su propia protección. Muéstrele esta ficha de seguridad al doctor que esté de servicio. Evitar contacto con ojos y piel. Mantener fuera del alcance de los niños.

5. Medidas para combatir incendios

Características inflamables	Aerosol: Extensión de la llama < 18 pulgadas (45 cm).
Medios de Extinción	
Medio extintor apropiado	Polvo químico. Espuma de alcohol. Pulverisación de agua.
Medios inadecuados	No disponible
Protección para bomberos	
Riesgos específicos derivados del producto químico	Contenido bajo presión. El envase a presión puede explotar cuando se expone al calor o a la llama. Enfríe los recipientes con abundante agua hasta tiempo después de apagado el incendio.
Equipo de protección para bomberos	Los bomberos deben usar ropa de protección completa que incluya aparato de respiración autónomo.
Productos de combustión peligrosa	Pueden incluir y no están limitados a: Óxidos de carbono. Óxidos de nitrógeno.
Datos de la explosión	
Sensibilidad al impacto mecánico	No disponible
Sensibilidad a la descarga estática	No disponible

6. Medidas de liberación accidental

Precauciones individuales	Mantenga alejado al personal que no sea necesario. No toque el material derramado ni camine sobre él. No toque los recipientes dañados ni el material derramado si no está usando la vestimenta de protección adecuada. Mantenga alejadas a las personas de la zona de la fuga y en sentido opuesto al viento.
Métodos de contención	Eliminar todas las fuentes de ignición (no fumar, teas, chispas ni llamas en los alrededores). Detenga la fuga si hacerlo no entraña riesgos. Evite su entrada en vías fluviales, sistemas de drenaje, sótanos o áreas cerradas.
Métodos de limpieza	Antes de proceder a limpiar, referirse a los datos sobre riesgos dados más arriba. Retirar las fuentes de ignición. Si bien los riesgos de derrames o pérdidas importantes son poco probables en el caso de aerosoles, en el caso que ocurran pueden absorberse con un material absorbente ininflamable como arena o vermiculite

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7. Manejo y almacenamiento

Manipulación	Establezca prácticas buenas de higiene industrial para la manipulación de este material. Evite que el material entre en contacto con la piel, los ojos y la ropa. No ingerir. No respire los vapores ni la niebla de la pulverización.
Almacenamiento	Mantener fuera del alcance de los niños. No almacenar a temperaturas por arriba de 49°C (120.2°F). Mantener alejado del calor, de llamas y de otras fuentes de ignición. Evite que se congele. AVISO A LOS PADRES: El mal uso intencional de los productos en aerosol, debido a su concentración e inhalación deliberadas, puede ser nocivo o fatal. Ayude a evitar la inhalación abusiva, para mayor información, viste www.inhalant.org.

8. Controles de exposición y protección personal

Límite(s) de exposición

Ingrediente(s)	Límites de exposición
Etanolamina	**ACGIH-VUL** PPT: 3 ppm LECP: 6 ppm **OSHA-PEL** PPT: 3 ppm
Eter monobutílico del dietilen glicol	**ACGIH-VUL** No establecido **OSHA-PEL** No establecido
Gases del petróleo, licuados, desazufrados	**ACGIH-VUL** No establecido **OSHA-PEL** No establecido
Hidróxido de sodio	**ACGIH-VUL** Ceiling: 2 mg/m3 **OSHA-PEL** PPT: 2 mg/m3

Controles de ingeniería	Proporcionar ventilación adecuada.
Protección personal	
Protección para ojos y rostro	gafas de seguridad ajustadas al contorno del rostro
Protección de las manos	Guantes de goma. Confirmar primero con un proveedor conocido.
Protección de la piel y del cuerpo	Como sea requerido por las normas del empleador. ropa de manga larga Follow label directions carefully.
Protección respiratoria	Normalmente no es necesario bajo condiciones normales de uso.
Consideraciones sobre higiene general	Manipúlelo con las precauciones de higiene industrial adecuadas, y respete las prácticas de seguridad. No coma ni beba durante su utilización. Lávese las manos antes de los descansos e inmediatamente después de manipular la substancia.

9. Propiedades físicas y químicas

Aspecto	Aerosol
Color	Blanco.
Estado físico	gas licuado comprimido
Olor	Característico
Umbral de olor	No disponible
Estado físico	Gas
pH	13.3
Punto de congelamiento	No disponible

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Punto de fluidez	No disponible
Punto de ebullición	No disponible
Punto de inflamabilidad	> 93.33 °C (> 200 °F) (líquido)
Tasa de evaporación	No disponible
Límites de inflamabilidad en aire, Inferior, % por volumen	No disponible
Límites de inflamabilidad en aire, Superior, % por volumen	No disponible
Presión de vapor	No disponible
Densidad de vapor	No disponible
Peso específico	1.052 @ 25°C
Coeficiente de la distribución de la agua/aceite	No disponible
Solubilidad (H2O)	> 95 % @ 70°F
Temperatura de autoignición	No disponible
COV (Peso %)	No disponible
Viscosidad	No disponible

10. Estabilidad y reactividad

Estabilidad Química	Estable bajo las condiciones de almacenamiento recomendadas.
Condiciones a evitar	Los recipientes de tipo aerosol son inestables a temperaturas por arriba de 49°C (120.2°F). No pulverizar sobre luces piloto, conexiones eléctricas, interruptores, elementos de calefactores o termostátos. No pulverizar sobre el aluminio o superficies pintadas, ya que dichas superficies pueden verse dañadas. No usar en la parte exterior ni en la parte interior ni en los componentes de la parrilla o grill.
Materiales Incompatibles	Ácidos. Agentes oxidantes. Aluminio.
Productos de descomposición peligrosos	Pueden incluir y no están limitados a: Óxidos de carbono. Óxidos de nitrógeno.
Posibilidad de reacciones peligrosas	La polimerización peligrosa no ocurre.

11. Información toxicológica

Análisis de los componentes - CL50

Ingrediente(s)	CL50
Etanolamina	1210 mg/m3 ratón
Eter monobutílico del dietilen glicol	No disponible
Gases del petróleo, licuados, desazufrados	No disponible
Hidróxido de sodio	No disponible

Análisis de los componentes - Oral DL50

Ingrediente(s)	DL50
Etanolamina	1720 mg/kg rata; 700 mg/kg ratón
Eter monobutílico del dietilen glicol	2000 mg/kg Cuye; 3384 mg/kg rata; 2200 mg/kg conejo
Gases del petróleo, licuados, desazufrados	No disponible
Hidróxido de sodio	No disponible

Efectos debidos a una exposición aguda

Ojos	Causa quemaduras.
Piel	Causa quemaduras.
Inhalación	No se espero ninguno durante condiciones normales de uso. Cualquier mal uso intencional del contenido de este producto debido a su concentración e inhalación deliberadas puede ser nocivo o fatal.

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Ingestión	Nocivo en caso de ingestión.
Sensibilización	No se esperan efectos crónicos sobre la salud relacionados con el producto terminado.
Efectos crónica	No se esperan efectos crónicos sobre la salud relacionados con el producto terminado.
Carcinogenicidad	No se esperan efectos crónicos sobre la salud relacionados con el producto terminado.
Mutagenicidad	No se esperan efectos crónicos sobre la salud relacionados con el producto terminado.
Efectos sobre la reproducción	No se esperan efectos crónicos sobre la salud relacionados con el producto terminado.
Teratogenicidad	No se esperan efectos crónicos sobre la salud relacionados con el producto terminado.
Materiales sinergísticos	No disponible

12. Información ecológica

Efectos ecotoxicológicos Los componentes de este producto se han identificado como teniendo preocupaciones ambientales potenciales.

Ecotoxicidad - Dato de Microtox		
Etanolamina	141-43-5	30 min EC50 Photobacterium phosphoreum: 13.7 mg/L; 17 Hr EC50 Pseudomonas putida: 110 mg/L; 2 Hr EC50 Nitrosomonas: 12200 mg/L
Ecotoxicidad - Dato de pescados de agua dulce		
Etanolamina	141-43-5	96 Hr LC50 Pimephales promelas: 227 mg/L [flow-through]; 96 Hr LC50 Brachydanio rerio: 3684 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 300-1000 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 114-196 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: >200 mg/L [flow-through]
Eter monobutílico del dietilen glicol	112-34-5	96 Hr LC50 Lepomis macrochirus: 1300 mg/L [static]
Hidróxido de sodio	1310-73-2	96 Hr LC50 Oncorhynchus mykiss: 45.4 mg/L [static]
Ecotoxicidad - Dato de pulga de agua		
Etanolamina	141-43-5	48 Hr EC50 Daphnia magna: 65 mg/L
Eter monobutílico del dietilen glicol	112-34-5	24 Hr EC50 Daphnia magna: 2850 mg/L; 48 Hr EC50 Daphnia magna: >100 mg/L
Ecotoxicidad - Datos de agua dulce de las algas		
Etanolamina	141-43-5	72 Hr EC50 Desmodesmus subspicatus: 15 mg/L
Eter monobutílico del dietilen glicol	112-34-5	96 Hr EC50 Desmodesmus subspicatus: >100 mg/L

Efectos sobre el medio ambiente	No disponible
Toxicidad acuática	No disponible
Persistencia y degradabilidad	No disponible
Bioacumulación / acumulación	No disponible
Coeficiente de reparto	No disponible
Movilidad en el medio ambiente	No disponible
Información de destino químico	No disponible

13. Consideraciones de eliminación

Códigos sobre residuos	No disponible
Instrucciones para la eliminación	Elimine de acuerdo con todas las regulaciones aplicables.
Desechos de residuos / producto no utilizado	No disponible
Envases contaminados	No disponible

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14. Información relativa al transporte

Ministerio de Transportes de los Estados Unidos. (DOT)

UN1950, Aerosoles, Clase 2.2 (8), Re-Clasificado como Bien de consume ORM-D, PROHIBIDO EL TRANSPORTE POR AIRE

Transporte de material peligroso (TDG - Canada)

UN1950, Aerosoles, Clase 2.2 (8), Re-Clasificado como Bien de consume/ Cantidad limitada, PROHIBIDO EL TRANSPORTE POR AIRE

IMDG (Transporte marítimo)

UN1950, Aerosoles, Clase 2.2 (8), Cantidad limitada

IATA/ICAO (Aire)

UN1950, Aerosoles, no inflamable, contener sustancias en la clase 8, Grupo del embalaje II, 2.2 (8), PROHIBIDO EL TRANSPORTE POR AIRE

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15. Información reguladora

Reglamentaciones federales de los E.E.U.U. Este producto es calificado como "químicamente peligroso" en los términos de la OSHA Hazard Communication Standard, 29 CFR 1910.1200.

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

Eter monobutílico del dietilen glicol	112-34-5	1 lb statutory RQ (no final RQ is being assigned to the generic or broad class. Includes mono- and di- ethers of ethylene glycol, diethylene glycol and triethylene glycol R-(OCH2CH2)n-OR" where n = 1, 2 or 3, R = alkyl or aryl groups, R" = R h or groups which when removed yield glycol ethers with the structure R-(OCH2CH2)n-OH. Polymers are excluded from glycol category); 0.454 k
Hidróxido de sodio	1310-73-2	1000 lb final RQ; 454 kg final RQ

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

Eter monobutílico del dietilen glicol	112-34-5	1.0 percent de minimis concentration (applies to R-(OCH2CH2)n-OR' ethers, where n = 1,2, or 3, R=alkyl C7 or less or R = phenyl or alkyl subst. phenyl, R' = H or alkyl C7 or less, or OR' consisting of carboxylic acid ester, sulfate, phosphate, nitrate, or sulfonate, Chemical Category N230)

U.S. - CWA (Clean Water Act) - Hazardous Substances

Hidróxido de sodio	1310-73-2	Presente

Administración de Salud y Seguridad Ocupacional (en inglés, OSHA)

29 CFR 1910.1200 hazardous chemical Sí

Ley Global de Responsabilidad, Compensación y Respuesta Medioambiental (Superfund) (en inglés, CERCLA) Cantidad Declarable

Hidróxido de sodio: 1000.0000

Ley de Enmiendas y Reautorizaciones Superiores (Superfund) de 1986 (en inglés, SARA)

Categorías de peligro Peligro Inmediato: - Sí
Peligro Retrasado - No
Peligro de Incendio - No
Peligro de Presión: - Sí
Peligro de Reactividad - No

Sección 302 - Substancia Extremadamente Peligrosa No

Sección 311 - Químico Peligroso Sí

Clean Air Act (CAA) No disponible

Clean Water Act (CWA) No disponible

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Reglamentos estatales Este producto no contiene una substancia química que según el Estado de California pueda producir cáncer, defectos de nacimiento u otros daños reproductivos.

U.S. - California - 8 CCR Section 339 - Director's List of Hazardous Substances

Etanolamina	141-43-5	Presente
Hidróxido de sodio	1310-73-2	Presente

U.S. - Illinois - Toxic Air Contaminants

Etanolamina	141-43-5	Presente
Eter monobutílico del dietilen glicol	112-34-5	Presente

U.S. - Louisiana - Reportable Quantity List for Pollutants

Eter monobutílico del dietilen glicol	112-34-5	100 lb RQ
Hidróxido de sodio	1310-73-2	1000 lb final RQ; 454 kg final RQ

U.S. - Massachusetts - Right To Know List

Etanolamina	141-43-5	Presente
Hidróxido de sodio	1310-73-2	Presente

U.S. - Minnesota - Hazardous Substance List

Etanolamina	141-43-5	Presente
Hidróxido de sodio	1310-73-2	Presente

U.S. - New Jersey - Right to Know Hazardous Substance List

Etanolamina	141-43-5	sn 0835
Eter monobutílico del dietilen glicol	112-34-5	sn 2265
Hidróxido de sodio	1310-73-2	sn 1706

U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances

Hidróxido de sodio	1310-73-2	1000 lb RQ (aire); 100 lb RQ (tierra/agua)

U.S. - Pennsylvania - RTK (Right to Know) List

Etanolamina	141-43-5	Presente
Eter monobutílico del dietilen glicol	112-34-5	Riesgo medioambiental
Hidróxido de sodio	1310-73-2	Riesgo medioambiental

U.S. - Rhode Island - Hazardous Substance List

Etanolamina	141-43-5	Tóxico; Inflamable
Hidróxido de sodio	1310-73-2	Tóxico; Inflamable

Estado del inventario

País(es) o región	Nombre de inventario	En existencia (sí/no)*
Estados Unidos y Puerto Rico	Ley de Control de Sustancias Tóxicas (en inglés, TSCA) Inventario	SI

Una respuesta "SI" indica que todos los componentes de este producto cumplen con los requisitos de los inventarios administrados por el/los país(es) gobernantes

16. Otra información

Cláusula de limitación de responsabilidad Este producto debe usarse exclusivamente en la forma indicada en la etiqueta y para el propósito destinado. Según nuestro leal saber y entender la información aquí contenida es correcta. No obstante, ni el proveedor más arriba indicado ni ninguno de sus agentes subsidiarios asume responsabilidad alguna por la completitud o la exactitud de la información contenida en el presente. La decisión final de la conveniencia de cualquier material es responsabilidad exclusiva del usuario. Todos los materiales pueden presentar riesgos desconocidos y deben usarse con precaución. Si bien algunos riesgos se describen en el presente, no podemos garantizar que los mismos sean todos los riesgos existentes.

Información adicional 62338-00138 - 16 oz., EASY-OFF® Oven Cleaner - Heavy Duty Regular Scent: 371752 (772-004)

62338-81397 - 24 oz., EASY-OFF® Heavy Duty Oven Cleaner - Club Pack: 367270

Fecha de emisión 07-Ene-2010

Fecha de vigencia 01-Ene-2010

Preparado cerca Departamento de regulación Reckitt Benckiser 800-333-3899

Otra información Para obtener una Hoja de Datos de Seguridad actualizada, por favor póngase en contacto con el distribuidor /el fabricante que figura en la primera página de este documento.

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Sitio web de esta imagen
propaneoutfitters.com

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ALTOL
Environmental Services, Inc.

P.O Box 359 Mercedita, PR 00715-0359

December 30, 2013

Mr. Benjamin Cintrón
Project Manager
Homeca Recycling

RE: **AIR PARTICULATE MONITORING REPORT AT PUERTO RICO OLEFINES, PEÑUELAS, PR.**

Dear Mr. Cintrón:

Altol Environmental Services, Inc., submits for your review the results obtained during the air particulates monitoring. These were performed following Altol operational procedures.

Altol's technician installed and removed the Data Ram-4 COM equipment from the Towers located at Puerto Rico Olefines in Peñuelas, PR. The equipment collected data every minute for approximately a eight (8) hour period. Also, during the installation and removal of the equipment the wind direction, wind velocity, weather and other conditions were documented as supplementary information. The wind velocity was measured using the Kestrell 4000 equipment.

Appendix 1 presents **Table 1** which summarizes the results of information collected at the towers. The data collected during this period indicated levels of particulate material (PM_{10}) that do not exceed the regulated limits of the United States Environmental Protection Agency (USEPA) of 150 $\mu g/m^3$ (40 CFR part 50) (**Appendix 2**). The information collected from each tower is presented in graphics in terms of mass and dates (**Appendix 3**).

The following Appendices present the tables and graphics results for mass ($\mu g/m^3$), temperature (^oF), relative humidity (RH) and diameter (nm), obtained from each Data Ram-4 COM equipment:

- **Appendix 4**, correspond to Tower # 1, December 26, 2013.
- **Appendix 5**, correspond to Tower # 2, December 26, 2013.

If you need any further information contact us at your earliest convenience at (787)-835-4242 or (787) 430-6141.

Statement of Authenticity,
Altol Environmental Services, Inc.

Certify that the results are complete and accurate

Cordially,

Carlos E. Ocasio Feliciano
Environmental Higiene

Parque Industrial Sabanetas ▪ Edificio M-1380 ▪ Ponce, PR 00715
Tel. (787) 835-4242 ▪ Fax (787) 835-2004

APPENDIX 1
FUGITIVE DUSTS SAMPLING AND TEST RESULTS

TABLE 1. FUGITIVE DUSTS SAMPLING AND ENVIRONMENTAL CONDITIONS

Air Monitoring Date	Air Monitoring Tower	Latitude and Longitude	Equipment Data Ram-4 COM						Equipment Kestrell Model 4000		Field Observation				Sampling Personnel
			Equipment Model/ID#	Start Time	Finish Time	Avg Mass ($\mu g/m^3$)	Regulatory Limits ($\mu g/m3$)	Avg Diameter (nm)	Wind Velocity Start Time (mph)	Wind Velocity Finish Time (mph)	Weather Condition Start Time	Weather Condition Finish Time	Wind Direction Start Time	Wind Direction Finish Time	
12/26/2013 12/26/2013	1		DR4/D788	7:59	14:49	0.61	150	0.34	5.9	4.8	Sunny	Cloudy	West	West	JS
12/26/2013 12/26/2013	2		DR4/D787	8:50	16:00	2.49	150	0.39	6.9	3.9	Sunny	Cloudy	West	West	JS

Standard Limit = 150 $\mu g/m^3$

Leyend

N/A - Not Aplicable
RV - Robert Velazquez
JRR- Jaime Rivera Rivera
JR- Juan Rivera
JC- Jose Cruz
NH Nehemias Hernandez
JS- José Santos

Towers Location:

Tower #1: PR-503
Tower #2: Disposal Area 3A
Tower #3: Access Road #1
Tower #4: Laboratory Area

ALTOL
Environmental Services, Inc.
Statement of Authenticity,
Certify that the results are complete and accurate

Cordially,

Carlos E. Ocasio Feliciano
Environmental Higiene

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APPENDIX 2
USEPA REGULATION PARAMETER

National Ambient Air Quality Standards (NAAQS)

The Clean Air Act, which was last amended in 1990, requires EPA to set National Ambient Air Quality Standards (40 CFR part 50) for pollutants considered harmful to public health and the environment. The Clean Air Act established two types of national air quality standards. *Primary standards* set limits to protect public health, including the health of "sensitive" populations such as asthmatics, children, and the elderly. *Secondary standards* set limits to protect public welfare, including protection against decreased visibility, damage to animals, crops, vegetation, and buildings.

The EPA Office of Air Quality Planning and Standards (OAQPS) has set National Ambient Air Quality Standards for six principal pollutants, which are called "criteria" pollutants. They are listed below. Units of measure for the standards are parts per million (ppm) by volume, milligrams per cubic meter of air (mg/m^3), and micrograms per cubic meter of air ($\mu g/m^3$).

National Ambient Air Quality Standards

	Primary Standards		Secondary Standards	
Pollutant	Level	Averaging Time	Level	Averaging Time
Carbon Monoxide	9 ppm ($10\ mg/m^3$)	8-hour [1]	None	
	35 ppm ($40\ mg/m^3$)	1-hour [1]		
Lead	0.15 $\mu g/m^3$ [2]	Rolling 3-Month Average	Same as Primary	
	1.5 $\mu g/m^3$	Quarterly Average	Same as Primary	
Nitrogen Dioxide	0.053 ppm ($100\ \mu g/m^3$)	Annual (Arithmetic Mean)	Same as Primary	
Particulate Matter (PM_{10})	150 $\mu g/m^3$	24-hour [3]	Same as Primary	
Particulate Matter ($PM_{2.5}$)	15.0 $\mu g/m^3$	Annual [4] (Arithmetic Mean)	Same as Primary	
	35 $\mu g/m^3$	24-hour [5]	Same as Primary	
Ozone	0.075 ppm (2008 std)	8-hour [6]	Same as Primary	
	0.08 ppm (1997 std)	8-hour [7]	Same as Primary	
	0.12 ppm	1-hour [8] (Applies only in limited areas)	Same as Primary	
Sulfur Dioxide	0.03 ppm	Annual (Arithmetic Mean)	0.5 ppm ($1300\ \mu g/m^3$)	3-hour [1]
	0.14 ppm	24-hour [1]		

[1] Not to be exceeded more than once per year.
[2] Final rule signed October 15, 2008.
[3] Not to be exceeded more than once per year on average over 3 years.
[4] To attain this standard, the 3-year average of the weighted annual mean PM2.5 concentrations from single or multiple community-oriented monitors must not exceed 15.0 µg/m3.
[5] To attain this standard, the 3-year average of the 98th percentile of 24-hour concentrations at each population-oriented monitor within an area must not exceed 35 µg/m3 (effective December 17, 2006).
[6] To attain this standard, the 3-year average of the fourth-highest daily maximum 8-hour average ozone concentrations measured at each monitor within an area over each year must not exceed 0.075 ppm. (effective May 27, 2008)
[7] (a) To attain this standard, the 3-year average of the fourth-highest daily maximum 8-hour average ozone concentrations measured at each monitor within an area over each year must not exceed 0.08 ppm.

(b) The 1997 standard—and the implementation rules for that standard—will remain in place for implementation purposes as EPA undertakes rulemaking to address the transition from the 1997 ozone standard to the 2008 ozone standard.

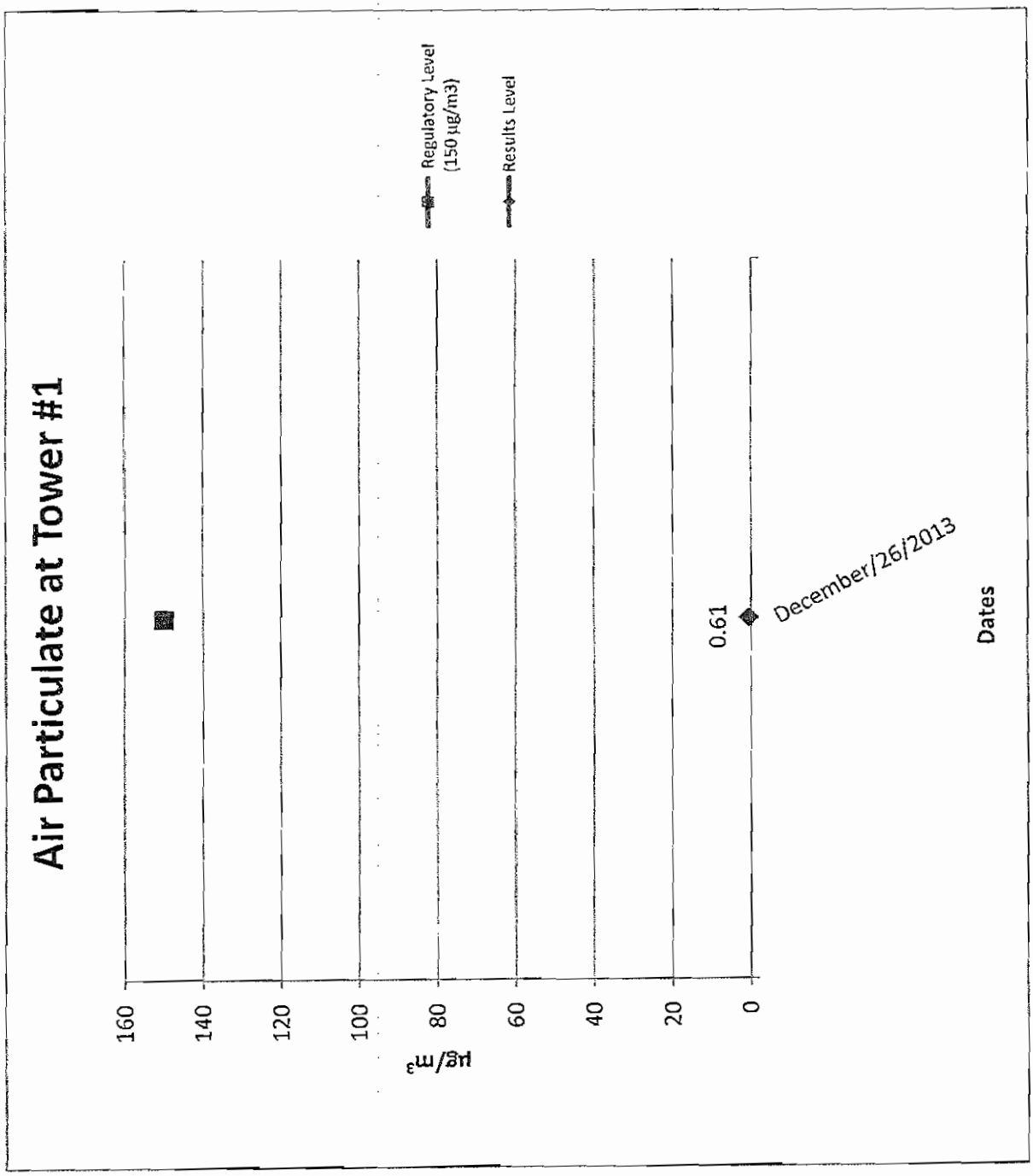
[8] (a) The standard is attained when the expected number of days per calendar year with maximum hourly average concentrations above 0.12 ppm is ≤ 1.

(b) As of June 15, 2005 EPA revoked the 1-hour ozone standard in all areas except the 8-hour ozone nonattainment Early Action Compact (EAC) Areas.

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APPENDIX 3
GRAPHICS OF MASS vs DATE

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Air Particulate at Tower #1
Regulatory Level (150 µg/m3)
Results Level
µg/m³
160
140
120
100
80
60
40
20
0
0.61
December/26/2013
Dates

Air Particulate at Tower #2
Regulatory Level (150 µg/m3)
Results Level
160
140
120
100
80
60
40
20
0
µg/m³
2.49
December/26/2013
Dates

APPENDIX 4
TOWER #1 AIR PARTICULATE MONITORING

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"Model Number", "DataRAM 4 ", 106
"Serial no. ", "D788 "
"Device no. ", 1
"Tag Number ", 62
"Start Time ", 07:58:07
"Start Date ", 26-Dec-2013
"Log Period ", 00:01:00
"Number ", 411
"CalFactor ", 1.000000
"Unit ", 0
"Unit Name ", "(MASS)ug/m3"
"SIZE_CORRECT", "ENABLED"
"TEMPUNITS ", F
"Max MASS ", 2.950878
"Max MASS @ ", 1 ,07:59:07 ,26-Dec-2013
"Avg MASS ", 0.610431
"Max Diam ", 0.388256
"Max Diam @ ", 11 ,08:09:07 ,26-Dec-2013
"Avg Diam ", 0.338135
"ALARM ", "DISABLED"
"ALARM_LEVEL ", 0.0
"AUTO_ZERO ", "DISABLED"
"AZ INTERVAL ", 1
"Errors ", 0000
record,"(MASS)ug/m3", Temp, RHumidity, Diameter

1,	3.0,	73.4,	56,	0.3490	,07:59:07	,26-Dec-2013
2,	1.0,	73.5,	59,	0.3441	,08:00:07	,26-Dec-2013
3,	1.0,	73.7,	61,	0.3444	,08:01:07	,26-Dec-2013
4,	0.9,	73.8,	63,	0.3437	,08:02:07	,26-Dec-2013
5,	0.6,	74.0,	64,	0.3419	,08:03:07	,26-Dec-2013
6,	0.5,	74.3,	64,	0.3408	,08:04:07	,26-Dec-2013
7,	2.3,	74.5,	65,	0.3607	,08:05:07	,26-Dec-2013
8,	0.9,	74.6,	65,	0.3559	,08:06:07	,26-Dec-2013
9,	0.7,	74.8,	66,	0.3518	,08:07:07	,26-Dec-2013
10,	0.7,	75.1,	66,	0.3527	,08:08:07	,26-Dec-2013
11,	1.6,	75.3,	66,	0.3883	,08:09:07	,26-Dec-2013
12,	0.4,	75.5,	66,	0.3531	,08:10:07	,26-Dec-2013
13,	0.6,	75.7,	66,	0.3591	,08:11:07	,26-Dec-2013
14,	0.7,	75.9,	66,	0.3626	,08:12:07	,26-Dec-2013
15,	0.5,	76.2,	66,	0.3555	,08:13:07	,26-Dec-2013
16,	0.3,	76.3,	66,	0.3497	,08:14:07	,26-Dec-2013
17,	0.4,	76.6,	66,	0.3508	,08:15:07	,26-Dec-2013
18,	0.2,	76.8,	66,	0.3430	,08:16:07	,26-Dec-2013
19,	0.4,	77.0,	66,	0.3527	,08:17:07	,26-Dec-2013
20,	0.4,	77.3,	66,	0.3512	,08:18:07	,26-Dec-2013
21,	0.2,	77.5,	66,	0.3442	,08:19:07	,26-Dec-2013
22,	0.2,	77.8,	65,	0.3435	,08:20:07	,26-Dec-2013
23,	0.4,	78.0,	65,	0.3529	,08:21:07	,26-Dec-2013
24,	0.2,	78.2,	65,	0.3456	,08:22:07	,26-Dec-2013
25,	0.5,	78.5,	65,	0.3558	,08:23:07	,26-Dec-2013
26,	0.1,	78.8,	65,	0.3420	,08:24:07	,26-Dec-2013
27,	0.3,	79.0,	65,	0.3485	,08:25:07	,26-Dec-2013
28,	0.3,	79.2,	64,	0.3458	,08:26:07	,26-Dec-2013
29,	0.1,	79.4,	64,	0.3424	,08:27:07	,26-Dec-2013
30,	0.1,	79.7,	64,	0.3406	,08:28:07	,26-Dec-2013
31,	0.3,	79.9,	63,	0.3486	,08:29:07	,26-Dec-2013
32,	0.0,	80.1,	63,	0.3377	,08:30:07	,26-Dec-2013
33,	0.1,	80.3,	63,	0.3393	,08:31:07	,26-Dec-2013
34,	0.3,	80.6,	63,	0.3480	,08:32:07	,26-Dec-2013
35,	0.4,	80.8,	62,	0.3521	,08:33:07	,26-Dec-2013
36,	0.1,	81.0,	62,	0.3394	,08:34:07	,26-Dec-2013
37,	0.0,	81.2,	62,	0.3386	,08:35:07	,26-Dec-2013
38,	0.1,	81.5,	62,	0.3392	,08:36:07	,26-Dec-2013
39,	0.3,	81.7,	61,	0.3463	,08:37:07	,26-Dec-2013

40,	0.3,	81.9,	61,	0.3488	,08:38:07	,26-Dec-2013
41,	0.2,	82.2,	61,	0.3445	,08:39:07	,26-Dec-2013
42,	0.1,	82.5,	61,	0.3419	,08:40:07	,26-Dec-2013
43,	0.6,	82.7,	60,	0.3561	,08:41:07	,26-Dec-2013
44,	0.4,	82.9,	60,	0.3504	,08:42:07	,26-Dec-2013
45,	0.6,	83.3,	60,	0.3556	,08:43:07	,26-Dec-2013
46,	0.2,	83.5,	59,	0.3423	,08:44:07	,26-Dec-2013
47,	0.3,	83.7,	59,	0.3478	,08:45:07	,26-Dec-2013
48,	0.7,	84.0,	59,	0.3604	,08:46:07	,26-Dec-2013
49,	0.4,	84.3,	59,	0.3515	,08:47:07	,26-Dec-2013
50,	0.4,	84.5,	58,	0.3493	,08:48:07	,26-Dec-2013
51,	0.2,	84.7,	58,	0.3450	,08:49:07	,26-Dec-2013
52,	0.4,	85.0,	58,	0.3514	,08:50:07	,26-Dec-2013
53,	0.3,	85.3,	57,	0.3471	,08:51:07	,26-Dec-2013
54,	0.1,	85.5,	56,	0.3394	,08:52:07	,26-Dec-2013
55,	0.3,	85.8,	56,	0.3481	,08:53:07	,26-Dec-2013
56,	0.4,	86.1,	55,	0.3480	,08:54:07	,26-Dec-2013
57,	0.5,	86.3,	55,	0.3535	,08:55:07	,26-Dec-2013
58,	0.9,	86.6,	54,	0.3667	,08:56:07	,26-Dec-2013
59,	0.5,	86.8,	54,	0.3530	,08:57:07	,26-Dec-2013
60,	0.2,	87.1,	53,	0.3448	,08:58:07	,26-Dec-2013
61,	0.2,	87.3,	52,	0.3444	,08:59:07	,26-Dec-2013
62,	0.0,	87.5,	51,	0.3381	,09:00:07	,26-Dec-2013
63,	0.0,	87.8,	50,	0.3380	,09:01:07	,26-Dec-2013
64,	0.0,	87.9,	49,	0.3377	,09:02:07	,26-Dec-2013
65,	0.0,	88.1,	48,	0.3381	,09:03:07	,26-Dec-2013
66,	0.0,	88.3,	48,	0.3381	,09:04:07	,26-Dec-2013
67,	0.0,	88.5,	47,	0.3379	,09:05:07	,26-Dec-2013
68,	0.1,	88.7,	47,	0.3389	,09:06:07	,26-Dec-2013
69,	0.0,	88.8,	47,	0.3379	,09:07:07	,26-Dec-2013
70,	0.0,	89.0,	46,	0.3380	,09:08:07	,26-Dec-2013
71,	0.0,	89.1,	46,	0.3377	,09:09:07	,26-Dec-2013
72,	0.0,	89.3,	45,	0.3378	,09:10:07	,26-Dec-2013
73,	0.0,	89.5,	45,	0.3381	,09:11:07	,26-Dec-2013
74,	0.0,	89.7,	44,	0.3383	,09:12:07	,26-Dec-2013
75,	0.1,	89.8,	44,	0.3390	,09:13:07	,26-Dec-2013
76,	0.0,	90.0,	44,	0.3377	,09:14:07	,26-Dec-2013
77,	0.0,	90.2,	43,	0.3378	,09:15:07	,26-Dec-2013
78,	0.0,	90.4,	43,	0.3379	,09:16:07	,26-Dec-2013
79,	0.0,	90.6,	43,	0.3378	,09:17:07	,26-Dec-2013
80,	0.0,	90.8,	43,	0.3376	,09:18:07	,26-Dec-2013
81,	0.0,	91.0,	42,	0.3381	,09:19:07	,26-Dec-2013
82,	0.0,	91.3,	42,	0.3378	,09:20:07	,26-Dec-2013
83,	0.1,	91.5,	42,	0.3391	,09:21:07	,26-Dec-2013
84,	0.0,	91.7,	41,	0.3378	,09:22:07	,26-Dec-2013
85,	0.1,	91.8,	41,	0.3395	,09:23:07	,26-Dec-2013
86,	0.0,	92.0,	41,	0.3378	,09:24:07	,26-Dec-2013
87,	0.0,	92.2,	41,	0.3380	,09:25:07	,26-Dec-2013
88,	0.1,	92.3,	40,	0.3395	,09:26:07	,26-Dec-2013
89,	0.0,	92.5,	40,	0.3375	,09:27:07	,26-Dec-2013
90,	0.0,	92.6,	40,	0.3379	,09:28:07	,26-Dec-2013
91,	0.0,	92.8,	40,	0.3384	,09:29:07	,26-Dec-2013
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315,	1.2,	97.7,	39,	0.3421	,13:13:07	,26-Dec-2013
316,	1.0,	97.7,	39,	0.3417	,13:14:07	,26-Dec-2013
317,	1.1,	97.7,	38,	0.3419	,13:15:07	,26-Dec-2013
318,	1.0,	97.7,	38,	0.3419	,13:16:07	,26-Dec-2013
319,	1.3,	97.6,	38,	0.3429	,13:17:07	,26-Dec-2013
320,	0.5,	97.6,	39,	0.3396	,13:18:07	,26-Dec-2013
321,	1.0,	97.6,	39,	0.3417	,13:19:07	,26-Dec-2013
322,	0.7,	97.6,	38,	0.3403	,13:20:07	,26-Dec-2013
323,	1.0,	97.5,	39,	0.3415	,13:21:07	,26-Dec-2013
324,	1.5,	97.5,	39,	0.3283	,13:22:07	,26-Dec-2013
325,	1.2,	97.4,	39,	0.3268	,13:23:07	,26-Dec-2013
326,	1.3,	97.3,	39,	0.3251	,13:24:07	,26-Dec-2013
327,	0.7,	97.3,	39,	0.3314	,13:25:07	,26-Dec-2013
328,	1.2,	97.3,	39,	0.3259	,13:26:07	,26-Dec-2013
329,	0.9,	97.3,	40,	0.3289	,13:27:07	,26-Dec-2013
330,	1.3,	97.3,	40,	0.3255	,13:28:07	,26-Dec-2013
331,	1.6,	97.3,	40,	0.3228	,13:29:07	,26-Dec-2013
332,	1.3,	97.3,	40,	0.3253	,13:30:07	,26-Dec-2013
333,	1.1,	97.4,	40,	0.3268	,13:31:07	,26-Dec-2013
334,	1.6,	97.3,	40,	0.3238	,13:32:07	,26-Dec-2013
335,	1.5,	97.4,	40,	0.3257	,13:33:07	,26-Dec-2013
336,	0.9,	97.3,	40,	0.3303	,13:34:07	,26-Dec-2013
337,	0.8,	97.3,	39,	0.3313	,13:35:07	,26-Dec-2013
338,	0.9,	97.2,	39,	0.3307	,13:36:07	,26-Dec-2013
339,	0.9,	97.1,	39,	0.3300	,13:37:07	,26-Dec-2013
340,	0.8,	97.1,	39,	0.3316	,13:38:07	,26-Dec-2013
341,	0.8,	97.1,	39,	0.3304	,13:39:07	,26-Dec-2013
342,	0.8,	97.0,	39,	0.3314	,13:40:07	,26-Dec-2013
343,	1.0,	97.0,	39,	0.3296	,13:41:07	,26-Dec-2013
344,	0.7,	97.0,	39,	0.3319	,13:42:07	,26-Dec-2013
345,	1.2,	97.0,	40,	0.3275	,13:43:07	,26-Dec-2013
346,	0.8,	97.0,	40,	0.3313	,13:44:07	,26-Dec-2013
347,	0.7,	97.0,	40,	0.3317	,13:45:07	,26-Dec-2013
348,	0.9,	97.0,	40,	0.3307	,13:46:07	,26-Dec-2013
349,	0.7,	97.0,	40,	0.3314	,13:47:07	,26-Dec-2013
350,	1.0,	97.0,	40,	0.3294	,13:48:07	,26-Dec-2013
351,	0.8,	97.1,	40,	0.3310	,13:49:07	,26-Dec-2013
352,	0.8,	97.1,	39,	0.3311	,13:50:07	,26-Dec-2013
353,	1.0,	97.0,	39,	0.3290	,13:51:07	,26-Dec-2013
354,	1.2,	97.0,	39,	0.3288	,13:52:07	,26-Dec-2013
355,	1.5,	96.9,	39,	0.3231	,13:53:07	,26-Dec-2013
356,	1.3,	96.9,	40,	0.3232	,13:54:07	,26-Dec-2013
357,	1.0,	96.8,	40,	0.3263	,13:55:07	,26-Dec-2013
358,	1.0,	96.7,	40,	0.3261	,13:56:07	,26-Dec-2013
359,	1.2,	96.8,	41,	0.3256	,13:57:07	,26-Dec-2013

360,	1.7,	96.8,	41,	0.3284	,13:58:07	,26-Dec-2013
361,	1.4,	96.7,	40,	0.3287	,13:59:07	,26-Dec-2013
362,	1.5,	96.7,	41,	0.3282	,14:00:07	,26-Dec-2013
363,	1.4,	96.7,	40,	0.3302	,14:01:07	,26-Dec-2013
364,	1.0,	96.7,	41,	0.3352	,14:02:07	,26-Dec-2013
365,	0.9,	96.7,	41,	0.3354	,14:03:07	,26-Dec-2013
366,	1.7,	96.8,	41,	0.3326	,14:04:07	,26-Dec-2013
367,	1.4,	96.8,	40,	0.3325	,14:05:07	,26-Dec-2013
368,	1.3,	96.8,	40,	0.3335	,14:06:07	,26-Dec-2013
369,	1.2,	96.9,	40,	0.3329	,14:07:07	,26-Dec-2013
370,	1.5,	96.8,	40,	0.3324	,14:08:07	,26-Dec-2013
371,	1.6,	96.8,	40,	0.3384	,14:09:07	,26-Dec-2013
372,	1.2,	96.9,	40,	0.3381	,14:10:07	,26-Dec-2013
373,	1.3,	96.8,	40,	0.3321	,14:11:07	,26-Dec-2013
374,	1.6,	96.8,	41,	0.3347	,14:12:07	,26-Dec-2013
375,	1.5,	96.8,	41,	0.3371	,14:13:07	,26-Dec-2013
376,	1.4,	96.8,	41,	0.3358	,14:14:07	,26-Dec-2013
377,	1.8,	96.8,	41,	0.3343	,14:15:07	,26-Dec-2013
378,	1.8,	96.7,	41,	0.3339	,14:16:07	,26-Dec-2013
379,	1.5,	96.7,	41,	0.3307	,14:17:07	,26-Dec-2013
380,	2.2,	96.6,	41,	0.3208	,14:18:07	,26-Dec-2013
381,	1.4,	96.5,	42,	0.3197	,14:19:07	,26-Dec-2013
382,	1.6,	96.5,	42,	0.3130	,14:20:07	,26-Dec-2013
383,	1.6,	96.5,	43,	0.3168	,14:21:07	,26-Dec-2013
384,	1.5,	96.5,	43,	0.3226	,14:22:07	,26-Dec-2013
385,	1.8,	96.5,	43,	0.3209	,14:23:07	,26-Dec-2013
386,	1.3,	96.5,	43,	0.3250	,14:24:07	,26-Dec-2013
387,	1.7,	96.6,	43,	0.3215	,14:25:07	,26-Dec-2013
388,	1.4,	96.7,	44,	0.3391	,14:26:07	,26-Dec-2013
389,	1.4,	96.8,	43,	0.3416	,14:27:07	,26-Dec-2013
390,	1.7,	96.9,	43,	0.3377	,14:28:07	,26-Dec-2013
391,	1.7,	97.0,	44,	0.3287	,14:29:07	,26-Dec-2013
392,	1.3,	97.0,	44,	0.3284	,14:30:07	,26-Dec-2013
393,	1.7,	97.0,	44,	0.3244	,14:31:07	,26-Dec-2013
394,	1.7,	97.0,	43,	0.3225	,14:32:07	,26-Dec-2013
395,	1.8,	96.9,	43,	0.3187	,14:33:07	,26-Dec-2013
396,	1.4,	96.9,	43,	0.3191	,14:34:07	,26-Dec-2013
397,	1.5,	96.8,	43,	0.3194	,14:35:07	,26-Dec-2013
398,	1.9,	96.8,	43,	0.3139	,14:36:07	,26-Dec-2013
399,	1.3,	96.7,	43,	0.3249	,14:37:07	,26-Dec-2013
400,	1.6,	96.8,	44,	0.3209	,14:38:07	,26-Dec-2013
401,	2.1,	96.8,	43,	0.3272	,14:39:07	,26-Dec-2013
402,	1.9,	96.8,	44,	0.3310	,14:40:07	,26-Dec-2013
403,	1.9,	96.8,	44,	0.3351	,14:41:07	,26-Dec-2013
404,	1.7,	96.8,	43,	0.3333	,14:42:07	,26-Dec-2013
405,	1.2,	96.8,	44,	0.3346	,14:43:07	,26-Dec-2013
406,	1.4,	96.9,	44,	0.3326	,14:44:07	,26-Dec-2013
407,	1.7,	96.9,	44,	0.3327	,14:45:07	,26-Dec-2013
408,	1.5,	97.0,	44,	0.3330	,14:46:07	,26-Dec-2013
409,	1.3,	97.1,	44,	0.3358	,14:47:07	,26-Dec-2013
410,	1.3,	97.1,	44,	0.3372	,14:48:07	,26-Dec-2013
411,	1.2,	97.1,	44,	0.3372	,14:49:07	,26-Dec-2013

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(MASS)ug/m3
Temp (F)
Humidity (RH%)
Diameter (nm)
DataRAM 4 SN# D788 Dev# 1 Tag# 62 start 26-Dec-2013 07:58:07 Interval 00:01:00
100
95
90
85
80
75
70
65
60
55
50
45
40
35
30
25
20
15
10
5
0
12/26/13 08:00:00
12/26/13 09:00:00
12/26/13 10:00:00
12/26/13 11:00:00
12/26/13 12:00:00
12/26/13 13:00:00
12/26/13 14:00:00

000188

DataRAM 4 SN# D7088 Dev# 1 Tag# 62 start: 26-Dec-2013 07:58:07 interval: 00:01:00
(MASS)ug/m3
Temp (F)
Humidity (RH%)
Diameter (nm)
65
60
55
50
45
40
35
30
25
20
15
10
5
0
12/26/13 08:00:00
12/26/13 09:00:00
12/26/13 10:00:00
12/26/13 11:00:00
12/26/13 12:00:00
12/26/13 13:00:00
12/26/13 14:00:00

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APPENDIX 5
TOWER #2 AIR PARTICULATE MONITORING

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```
 "Model Number", "DataRAM 4 ", 106
 Serial no.  ", "D787      "
"Device no.  ", HOMECA RECYCLING,PR CLEFINS TORRE 2 SUR
"Tag Number  ", 11
 Start Time  ", 08:49:58
"Start Date  ", 26-Dec-2013
"Log Period  ", 00:01:00
 Number      ", 531
 CalFactor   ", 1.000000
"Unit        ", 0
"Unit Name   ", "(MASS )ug/m3"
 SIZE_CORRECT", "ENABLED"
"TEMPUNITS   ", F
"Max MASS    ", 231.229900
 Max MASS  @ ",  ,16:44:58    ,26-Dec-2013
 Avg MASS    ", 2.493643
"Max Diam    ", 1.117248
"Max Diam @  ", 2  ,08:48:58  ,26-Dec-2013
 Avg Diam    ", 0.394878
"ALARM       ", "DISABLED"
"ALARM_LEVEL ", 0.0
 AUTO_ZERO   ", "DISABLED"
 AZ INTERVAL ", 1
"Errors      ", 0000
"ecord,"(MASS )ug/m3", Temp, RHumidity, Diameter
     1,        3.9,  79.1,    66,    0.29  ,08:50:58  ,26-Dec-2013
     2,        1.3,  79.2,    65,    0.31  ,08:51:58  ,26-Dec-2013
     3,        1.3,  79.3,    64,    0.31  ,08:52:58  ,26-Dec-2013
     4,        1.4,  79.3,    64,    0.32  ,08:53:58  ,26-Dec-2013
     5,      159.0,  79.4,    64,    0.32  ,08:54:58  ,26-Dec-2013
     6,       89.4,  79.4,    64,    0.21  ,08:55:58  ,26-Dec-2013
     7,       30.3,  79.5,    64,    0.21  ,08:56:58  ,26-Dec-2013
     8,       64.6,  79.6,    64,    0.22  ,08:57:58  ,26-Dec-2013
     9,      231.2,  79.6,    64,    0.21  ,08:58:58  ,26-Dec-2013
    10,      118.2,  79.7,    64,    0.19  ,08:59:58  ,26-Dec-2013
    11,        5.9,  79.8,    64,    0.32  ,09:00:58  ,26-Dec-2013
    12,        2.4,  79.9,    64,    0.36  ,09:01:58  ,26-Dec-2013
    13,        1.6,  80.0,    64,    0.39  ,09:02:58  ,26-Dec-2013
    14,        1.5,  80.0,    64,    0.39  ,09:03:58  ,26-Dec-2013
    15,        1.6,  80.1,    64,    0.40  ,09:04:58  ,26-Dec-2013
    16,        1.5,  80.2,    64,    0.39  ,09:05:58  ,26-Dec-2013
    17,        1.6,  80.2,    64,    0.39  ,09:06:58  ,26-Dec-2013
    18,        1.4,  80.2,    64,    0.38  ,09:07:58  ,26-Dec-2013
    19,        1.4,  80.3,    64,    0.38  ,09:08:58  ,26-Dec-2013
    20,        1.4,  80.4,    64,    0.38  ,09:09:58  ,26-Dec-2013
    21,        1.4,  80.4,    64,    0.39  ,09:10:58  ,26-Dec-2013
    22,        1.5,  80.5,    64,    0.38  ,09:11:58  ,26-Dec-2013
    23,        1.4,  80.5,    64,    0.36  ,09:12:58  ,26-Dec-2013
    24,        1.5,  80.6,    63,    0.36  ,09:13:58  ,26-Dec-2013
    25,        1.5,  80.6,    63,    0.36  ,09:14:58  ,26-Dec-2013
    26,        1.3,  80.7,    63,    0.37  ,09:15:58  ,26-Dec-2013
    27,        1.3,  80.8,    63,    0.38  ,09:16:58  ,26-Dec-2013
    28,        1.5,  80.8,    63,    0.40  ,09:17:58  ,26-Dec-2013
    29,        1.5,  80.9,    63,    0.41  ,09:18:58  ,26-Dec-2013
    30,        1.4,  80.9,    63,    0.40  ,09:19:58  ,26-Dec-2013
    31,        1.2,  81.0,    63,    0.37  ,09:20:58  ,26-Dec-2013
    32,        1.5,  81.0,    63,    0.37  ,09:21:58  ,26-Dec-2013
    33,        1.6,  81.1,    63,    0.37  ,09:22:58  ,26-Dec-2013
    34,        1.3,  81.1,    63,    0.35  ,09:23:58  ,26-Dec-2013
    35,        1.2,  81.2,    63,    0.35  ,09:24:58  ,26-Dec-2013
    36,        1.3,  81.2,    63,    0.35  ,09:25:58  ,26-Dec-2013
    37,        1.4,  81.3,    63,    0.34  ,09:26:58  ,26-Dec-2013
    38,        1.5,  81.3,    63,    0.33  ,09:27:58  ,26-Dec-2013
    39,        1.6,  81.4,    63,    0.36  ,09:28:58  ,26-Dec-2013
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40,	1.4,	81.4,	63,	0.37	,09:29:58	,26-Dec-2013
41,	1.4,	81.5,	63,	0.37	,09:30:58	,26-Dec-2013
42,	1.3,	81.5,	63,	0.37	,09:31:58	,26-Dec-2013
43,	1.5,	81.6,	63,	0.37	,09:32:58	,26-Dec-2013
44,	1.5,	81.7,	63,	0.35	,09:33:58	,26-Dec-2013
45,	1.2,	81.7,	63,	0.33	,09:34:58	,26-Dec-2013
46,	1.4,	81.7,	63,	0.33	,09:35:58	,26-Dec-2013
47,	1.3,	81.8,	63,	0.33	,09:36:58	,26-Dec-2013
48,	1.6,	81.8,	63,	0.33	,09:37:58	,26-Dec-2013
49,	1.1,	81.9,	63,	0.33	,09:38:58	,26-Dec-2013
50,	1.6,	81.9,	63,	0.33	,09:39:58	,26-Dec-2013
51,	1.8,	82.0,	63,	0.32	,09:40:58	,26-Dec-2013
52,	1.5,	82.0,	63,	0.34	,09:41:58	,26-Dec-2013
53,	1.5,	82.0,	63,	0.39	,09:42:58	,26-Dec-2013
54,	1.5,	82.1,	63,	0.37	,09:43:58	,26-Dec-2013
55,	1.8,	82.2,	63,	0.36	,09:44:58	,26-Dec-2013
56,	1.5,	82.2,	63,	0.34	,09:45:58	,26-Dec-2013
57,	1.4,	82.2,	63,	0.35	,09:46:58	,26-Dec-2013
58,	1.5,	82.2,	63,	0.37	,09:47:58	,26-Dec-2013
59,	1.8,	82.3,	63,	0.40	,09:48:58	,26-Dec-2013
60,	1.4,	82.4,	63,	0.44	,09:49:58	,26-Dec-2013
61,	1.6,	82.4,	63,	0.47	,09:50:58	,26-Dec-2013
62,	1.9,	82.4,	63,	0.60	,09:51:58	,26-Dec-2013
63,	1.5,	82.5,	63,	0.57	,09:52:58	,26-Dec-2013
64,	1.5,	82.5,	63,	0.47	,09:53:58	,26-Dec-2013
65,	1.5,	82.4,	63,	0.48	,09:54:58	,26-Dec-2013
66,	1.5,	82.5,	63,	0.46	,09:55:58	,26-Dec-2013
67,	1.9,	82.6,	63,	0.50	,09:56:58	,26-Dec-2013
68,	1.8,	82.6,	63,	0.57	,09:57:58	,26-Dec-2013
69,	1.8,	82.7,	63,	0.60	,09:58:58	,26-Dec-2013
70,	1.9,	82.7,	63,	0.67	,09:59:58	,26-Dec-2013
71,	1.4,	82.8,	63,	0.50	,10:00:58	,26-Dec-2013
72,	1.7,	82.8,	63,	0.39	,10:01:58	,26-Dec-2013
73,	1.6,	82.8,	63,	0.41	,10:02:58	,26-Dec-2013
74,	1.3,	82.8,	63,	0.40	,10:03:58	,26-Dec-2013
75,	1.6,	82.9,	63,	0.43	,10:04:58	,26-Dec-2013
76,	1.4,	82.9,	63,	0.41	,10:05:58	,26-Dec-2013
77,	1.4,	82.9,	63,	0.43	,10:06:58	,26-Dec-2013
78,	1.1,	82.9,	63,	0.41	,10:07:58	,26-Dec-2013
79,	1.2,	83.0,	63,	0.42	,10:08:58	,26-Dec-2013
80,	1.2,	83.0,	63,	0.42	,10:09:58	,26-Dec-2013
81,	1.3,	83.0,	63,	0.43	,10:10:58	,26-Dec-2013
82,	1.5,	83.1,	63,	0.44	,10:11:58	,26-Dec-2013
83,	1.3,	83.1,	63,	0.42	,10:12:58	,26-Dec-2013
84,	1.3,	83.2,	63,	0.42	,10:13:58	,26-Dec-2013
85,	1.7,	83.2,	63,	0.43	,10:14:58	,26-Dec-2013
86,	1.3,	83.2,	63,	0.41	,10:15:58	,26-Dec-2013
87,	1.5,	83.3,	63,	0.42	,10:16:58	,26-Dec-2013
88,	1.4,	83.3,	63,	0.46	,10:17:58	,26-Dec-2013
89,	1.1,	83.3,	63,	0.44	,10:18:58	,26-Dec-2013
90,	1.4,	83.3,	63,	0.46	,10:19:58	,26-Dec-2013
91,	1.4,	83.4,	63,	0.44	,10:20:58	,26-Dec-2013
92,	1.6,	83.4,	63,	0.45	,10:21:58	,26-Dec-2013
93,	1.5,	83.4,	63,	0.51	,10:22:58	,26-Dec-2013
94,	1.2,	83.4,	63,	0.42	,10:23:58	,26-Dec-2013
95,	1.5,	83.5,	63,	0.44	,10:24:58	,26-Dec-2013
96,	1.3,	83.5,	63,	0.42	,10:25:58	,26-Dec-2013
97,	1.3,	83.5,	63,	0.41	,10:26:58	,26-Dec-2013
98,	1.4,	83.5,	63,	0.43	,10:27:58	,26-Dec-2013
99,	1.4,	83.6,	63,	0.43	,10:28:58	,26-Dec-2013
100,	1.5,	83.6,	63,	0.43	,10:29:58	,26-Dec-2013
101,	1.4,	83.6,	63,	0.42	,10:30:58	,26-Dec-2013
102,	1.3,	83.6,	63,	0.40	,10:31:58	,26-Dec-2013
103,	1.2,	83.6,	63,	0.40	,10:32:58	,26-Dec-2013

104,	1.0,	83.6,	63,	0.39	,10:33:58	,26-Dec-2013
105,	1.5,	83.6,	63,	0.40	,10:34:58	,26-Dec-2013
106,	1.2,	83.6,	63,	0.40	,10:35:58	,26-Dec-2013
107,	1.5,	83.6,	63,	0.45	,10:36:58	,26-Dec-2013
108,	1.3,	83.6,	63,	0.42	,10:37:58	,26-Dec-2013
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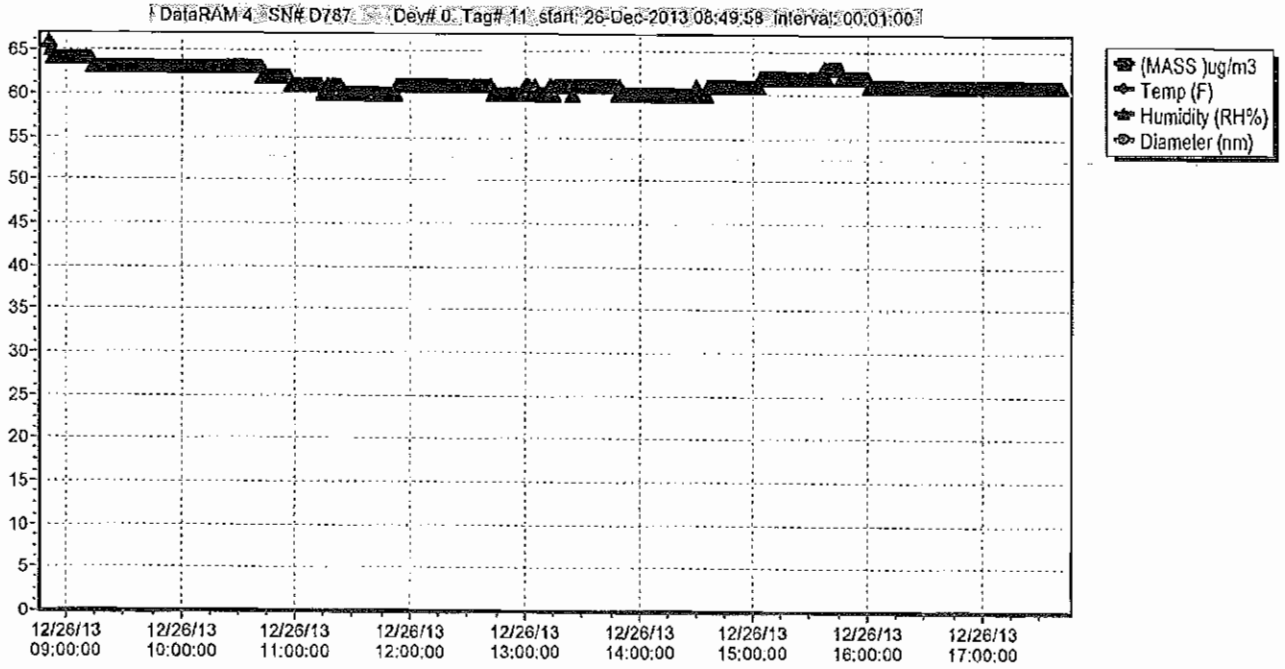
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338,	0.8,	81.9,	60,	0.36	,14:27:58	,26-Dec-2013
339,	0.8,	81.9,	60,	0.37	,14:28:58	,26-Dec-2013
340,	0.6,	81.9,	61,	0.36	,14:29:58	,26-Dec-2013
341,	1.3,	81.9,	60,	0.40	,14:30:58	,26-Dec-2013
342,	1.1,	81.9,	60,	0.40	,14:31:58	,26-Dec-2013
343,	1.0,	81.9,	60,	0.39	,14:32:58	,26-Dec-2013
344,	1.3,	81.9,	60,	0.41	,14:33:58	,26-Dec-2013
345,	1.2,	81.9,	60,	0.40	,14:34:58	,26-Dec-2013
346,	1.7,	81.9,	61,	0.40	,14:35:58	,26-Dec-2013
347,	2.0,	81.8,	61,	0.38	,14:36:58	,26-Dec-2013
348,	1.9,	81.8,	61,	0.38	,14:37:58	,26-Dec-2013
349,	4.0,	81.8,	61,	0.34	,14:38:58	,26-Dec-2013
350,	2.8,	81.8,	61,	0.31	,14:39:58	,26-Dec-2013
351,	5.0,	81.8,	61,	0.28	,14:40:58	,26-Dec-2013
352,	6.1,	81.8,	61,	0.26	,14:41:58	,26-Dec-2013
353,	3.6,	81.8,	61,	0.30	,14:42:58	,26-Dec-2013
354,	2.4,	81.8,	61,	0.31	,14:43:58	,26-Dec-2013
355,	1.6,	81.8,	61,	0.32	,14:44:58	,26-Dec-2013
356,	1.8,	81.8,	61,	0.33	,14:45:58	,26-Dec-2013
357,	1.5,	81.8,	61,	0.33	,14:46:58	,26-Dec-2013
358,	1.7,	81.8,	61,	0.33	,14:47:58	,26-Dec-2013
359,	1.4,	81.8,	61,	0.33	,14:48:58	,26-Dec-2013

360,	1.0,	81.9,	61,	0.33	,14:49:58	,26-Dec-2013
361,	1.1,	81.9,	61,	0.33	,14:50:58	,26-Dec-2013
362,	1.0,	81.8,	61,	0.33	,14:51:58	,26-Dec-2013
363,	1.2,	81.7,	61,	0.33	,14:52:58	,26-Dec-2013
364,	1.2,	81.8,	61,	0.33	,14:53:58	,26-Dec-2013
365,	1.3,	81.7,	61,	0.33	,14:54:58	,26-Dec-2013
366,	1.3,	81.7,	61,	0.34	,14:55:58	,26-Dec-2013
367,	0.9,	81.7,	61,	0.34	,14:56:58	,26-Dec-2013
368,	1.0,	81.7,	61,	0.34	,14:57:58	,26-Dec-2013
369,	1.0,	81.6,	61,	0.34	,14:58:58	,26-Dec-2013
370,	1.1,	81.6,	61,	0.34	,14:59:58	,26-Dec-2013
371,	1.1,	81.7,	61,	0.34	,15:00:58	,26-Dec-2013
372,	1.2,	81.6,	61,	0.35	,15:01:58	,26-Dec-2013
373,	1.4,	81.6,	61,	0.35	,15:02:58	,26-Dec-2013
374,	1.2,	81.6,	62,	0.35	,15:03:58	,26-Dec-2013
375,	1.2,	81.7,	62,	0.35	,15:04:58	,26-Dec-2013
376,	0.9,	81.6,	62,	0.34	,15:05:58	,26-Dec-2013
377,	1.0,	81.6,	62,	0.34	,15:06:58	,26-Dec-2013
378,	0.8,	81.6,	62,	0.34	,15:07:58	,26-Dec-2013
379,	1.0,	81.5,	62,	0.34	,15:08:58	,26-Dec-2013
380,	1.1,	81.5,	62,	0.34	,15:09:58	,26-Dec-2013
381,	0.8,	81.5,	62,	0.34	,15:10:58	,26-Dec-2013
382,	1.0,	81.5,	62,	0.34	,15:11:58	,26-Dec-2013
383,	0.8,	81.4,	62,	0.34	,15:12:58	,26-Dec-2013
384,	0.9,	81.4,	62,	0.34	,15:13:58	,26-Dec-2013
385,	0.8,	81.4,	62,	0.34	,15:14:58	,26-Dec-2013
386,	0.6,	81.5,	62,	0.34	,15:15:58	,26-Dec-2013
387,	0.8,	81.5,	62,	0.34	,15:16:58	,26-Dec-2013
388,	0.7,	81.5,	62,	0.34	,15:17:58	,26-Dec-2013
389,	0.6,	81.4,	62,	0.34	,15:18:58	,26-Dec-2013
390,	0.9,	81.4,	62,	0.34	,15:19:58	,26-Dec-2013
391,	0.7,	81.4,	62,	0.34	,15:20:58	,26-Dec-2013
392,	0.8,	81.4,	62,	0.34	,15:21:58	,26-Dec-2013
393,	0.7,	81.4,	62,	0.34	,15:22:58	,26-Dec-2013
394,	0.6,	81.4,	62,	0.34	,15:23:58	,26-Dec-2013
395,	0.4,	81.4,	62,	0.34	,15:24:58	,26-Dec-2013
396,	0.4,	81.3,	62,	0.34	,15:25:58	,26-Dec-2013
397,	0.5,	81.3,	62,	0.34	,15:26:58	,26-Dec-2013
398,	0.7,	81.4,	62,	0.34	,15:27:58	,26-Dec-2013
399,	0.9,	81.4,	62,	0.34	,15:28:58	,26-Dec-2013
400,	0.6,	81.3,	62,	0.34	,15:29:58	,26-Dec-2013
401,	1.1,	81.3,	62,	0.34	,15:30:58	,26-Dec-2013
402,	0.8,	81.4,	62,	0.34	,15:31:58	,26-Dec-2013
403,	1.0,	81.3,	62,	0.34	,15:32:58	,26-Dec-2013
404,	1.1,	81.4,	62,	0.34	,15:33:58	,26-Dec-2013
405,	1.1,	81.4,	62,	0.35	,15:34:58	,26-Dec-2013
406,	1.4,	81.3,	62,	0.35	,15:35:58	,26-Dec-2013
407,	1.9,	81.3,	63,	0.36	,15:36:58	,26-Dec-2013
408,	1.9,	81.2,	62,	0.37	,15:37:58	,26-Dec-2013
409,	2.2,	81.3,	63,	0.39	,15:38:58	,26-Dec-2013
410,	1.9,	81.2,	63,	0.36	,15:39:58	,26-Dec-2013
411,	2.0,	81.2,	63,	0.36	,15:40:58	,26-Dec-2013
412,	2.4,	81.2,	63,	0.40	,15:41:58	,26-Dec-2013
413,	1.8,	81.2,	63,	0.37	,15:42:58	,26-Dec-2013
414,	1.9,	81.3,	63,	0.34	,15:43:58	,26-Dec-2013
415,	1.9,	81.2,	63,	0.34	,15:44:58	,26-Dec-2013
416,	1.8,	81.3,	62,	0.34	,15:45:58	,26-Dec-2013
417,	1.5,	81.3,	62,	0.34	,15:46:58	,26-Dec-2013
418,	1.4,	81.2,	62,	0.34	,15:47:58	,26-Dec-2013
419,	1.4,	81.2,	62,	0.34	,15:48:58	,26-Dec-2013
420,	1.2,	81.2,	62,	0.34	,15:49:58	,26-Dec-2013
421,	1.1,	81.2,	62,	0.34	,15:50:58	,26-Dec-2013
422,	0.9,	81.2,	62,	0.34	,15:51:58	,26-Dec-2013
423,	0.8,	81.2,	62,	0.33	,15:52:58	,26-Dec-2013

424,	0.8,	81.2,	62,	0.33	,15:53:58	,26-Dec-2013
425,	0.6,	81.2,	62,	0.33	,15:54:58	,26-Dec-2013
426,	0.7,	81.1,	62,	0.33	,15:55:58	,26-Dec-2013
427,	0.5,	81.2,	62,	0.33	,15:56:58	,26-Dec-2013
428,	0.8,	81.2,	62,	0.33	,15:57:58	,26-Dec-2013
429,	0.8,	81.2,	62,	0.33	,15:58:58	,26-Dec-2013
430,	0.6,	81.1,	62,	0.33	,15:59:58	,26-Dec-2013
431,	0.5,	81.1,	61,	0.33	,16:00:58	,26-Dec-2013

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DataRAM 4 SN#-D787 Dev#:0 Tag#:11 start 26-Dec-2013 08:49:58 Interval: 00:01:00
(MASS)ug/m3
Temp (F)
Humidity (RH%)
Diameter (nm)
85
80
75
70
65
60
55
50
45
40
35
30
25
20
15
10
5
0
12/26/13 09:00:00
12/26/13 10:00:00
12/26/13 11:00:00
12/26/13 12:00:00
12/26/13 13:00:00
12/26/13 14:00:00
12/26/13 15:00:00
12/26/13 16:00:00
12/26/13 17:00:00



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ALTOL
Environmental Services, Inc.

P.O Box 359 Mercedita, PR 00715-0359

December 30, 2013

Mr. Benjamin Cintrón
Project Manager
Homeca Recycling

RE: AIR PARTICULATE MONITORING REPORT AT PUERTO RICO OLEFINES, PEÑUELAS, PR.

Dear Mr. Cintrón:

Altol Environmental Services, Inc., submits for your review the results obtained during the air particulates monitoring. These were performed following Altol operational procedures.

Altol's technician installed and removed the Data Ram-4 COM equipment from the Towers located at Puerto Rico Olefines in Peñuelas, PR. The equipment collected data every minute for approximately a eight (8) hour period. Also, during the installation and removal of the equipment the wind direction, wind velocity, weather and other conditions were documented as supplementary information. The wind velocity was measured using the Kestrell 4000 equipment.

Appendix 1 presents **Table 1** which summarizes the results of information collected at the towers. The data collected during this period indicated levels of particulate material (PM_{10}) that do not exceed the regulated limits of the United States Environmental Protection Agency (USEPA) of 150 $\mu g/m^3$ (40 CFR part 50) (**Appendix 2**). The information collected from each tower is presented in graphics in terms of mass and dates (**Appendix 3**).

The following Appendices present the tables and graphics results for mass ($\mu g/m^3$), temperature (^oF), relative humidity (RH) and diameter (nm), obtained from each Data Ram-4 COM equipment:

- **Appendix 4**, correspond to Tower # 1, December 27, 2013.
- **Appendix 5**, correspond to Tower # 2, December 27, 2013.

If you need any further information contact us at your earliest convenience at (787)-835-4242 or (787) 430-6141.

Statement of Authenticity,
Altol Environmental Services, Inc.

Certify that the results are complete and accurate

Cordially,

Carlos E. Ocasio Feliciano
Environmental Higiene

Parque Industrial Sabanetas ▫ Edificio M-1380 ▫ Ponce, PR 00715
Tel. (787) 835-4242 ▫ Fax (787) 835-2004

APPENDIX 1
FUGITIVE DUSTS SAMPLING AND TEST RESULTS

TABLE 1. FUGITIVE DUSTS SAMPLING AND ENVIRONMENTAL CONDITIONS

Air Monitoring Date	Air Monitoring Tower	Latitude and Longitude	Equipment Data Ram-4 COM						Equipment Kestrell Model 4000		Field Observation				Sampling Personnel
			Equipment Model/ID#	Start Time	Finish Time	Avg Mass ($\mu g/m^3$)	Regulatory Limits ($\mu g/m3$)	Avg Diameter (nm)	Wind Velocity Start Time (mph)	Wind Velocity Finish Time (mph)	Weather Condition Start Time	Weather Condition Finish Time	Wind Direction Start Time	Wind Direction Finish Time	
12/27/2013 12/27/2013	1		DR4/D788	7:13	13:30	3.05	150	0.74	3.5	4.4	Sunny	Cloudy	North West	North	JS
12/27/2013 12/27/2013	2		DR4/D786	7:22	16:08	1.54	150	0.38	2.7	4.9	Sunny	Cloudy	North West	North	JS

Standard Limit = 150 $\mu g/m^3$

Leyend

N/A - Not Aplicable
RV - Robert Velazquez
JRR- Jaime Rivera Rivera
JR- Juan Rivera
JC- Jose Cruz
NH Nehemias Hernaudez
JS- José Santos

Towers Location:

Tower #1: PR-503
Tower #2: Disposal Area 3A
Tower #3: Access Road #1
Tower #4: Laboratory Area

ALTOL
Environmental Services, Inc.

Statement of Authenticity,
Certify that the results are complete and accurate

Cordially,

Carlos E. Ocasio Feliciano
Environmental Higiene

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APPENDIX 2
USEPA REGULATION PARAMETER

National Ambient Air Quality Standards (NAAQS)

The Clean Air Act, which was last amended in 1990, requires EPA to set National Ambient Air Quality Standards (40 CFR part 50) for pollutants considered harmful to public health and the environment. The Clean Air Act established two types of national air quality standards. *Primary standards* set limits to protect public health, including the health of "sensitive" populations such as asthmatics, children, and the elderly. *Secondary standards* set limits to protect public welfare, including protection against decreased visibility, damage to animals, crops, vegetation, and buildings.

The EPA Office of Air Quality Planning and Standards (OAQPS) has set National Ambient Air Quality Standards for six principal pollutants, which are called "criteria" pollutants. They are listed below. Units of measure for the standards are parts per million (ppm) by volume, milligrams per cubic meter of air (mg/m^3), and micrograms per cubic meter of air ($\mu g/m^3$).

National Ambient Air Quality Standards

	Primary Standards		Secondary Standards	
Pollutant	Level	Averaging Time	Level	Averaging Time
Carbon Monoxide	9 ppm ($10\ mg/m^3$)	8-hour [1]	None	
	35 ppm ($40\ mg/m^3$)	1-hour [1]		
Lead	0.15 $\mu g/m^3$ [2]	Rolling 3-Month Average	Same as Primary	
	1.5 $\mu g/m^3$	Quarterly Average	Same as Primary	
Nitrogen Dioxide	0.053 ppm ($100\ \mu g/m^3$)	Annual (Arithmetic Mean)	Same as Primary	
Particulate Matter (PM_{10})	150 $\mu g/m^3$	24-hour [3]	Same as Primary	
Particulate Matter ($PM_{2.5}$)	15.0 $\mu g/m^3$	Annual [4] (Arithmetic Mean)	Same as Primary	
	35 $\mu g/m^3$	24-hour [5]	Same as Primary	
Ozone	0.075 ppm (2008 std)	8-hour [6]	Same as Primary	
	0.08 ppm (1997 std)	8-hour [7]	Same as Primary	
	0.12 ppm	1-hour [8] (Applies only in limited areas)	Same as Primary	
Sulfur Dioxide	0.03 ppm	Annual (Arithmetic Mean)	0.5 ppm ($1300\ \mu g/m^3$)	3-hour [1]
	0.14 ppm	24-hour [1]		

[1] Not to be exceeded more than once per year.
[2] Final rule signed October 15, 2008.
[3] Not to be exceeded more than once per year on average over 3 years.
[4] To attain this standard, the 3-year average of the weighted annual mean PM2.5 concentrations from single or multiple community-oriented monitors must not exceed 15.0 $\mu g/m3$.
[5] To attain this standard, the 3-year average of the 98th percentile of 24-hour concentrations at each population-oriented monitor within an area must not exceed 35 $\mu g/m3$ (effective December 17, 2006).
[6] To attain this standard, the 3-year average of the fourth-highest daily maximum 8-hour average ozone concentrations measured at each monitor within an area over each year must not exceed 0.075 ppm. (effective May 27, 2008)
[7] (a) To attain this standard, the 3-year average of the fourth-highest daily maximum 8-hour average ozone concentrations measured at each monitor within an area over each year must not exceed 0.08 ppm.

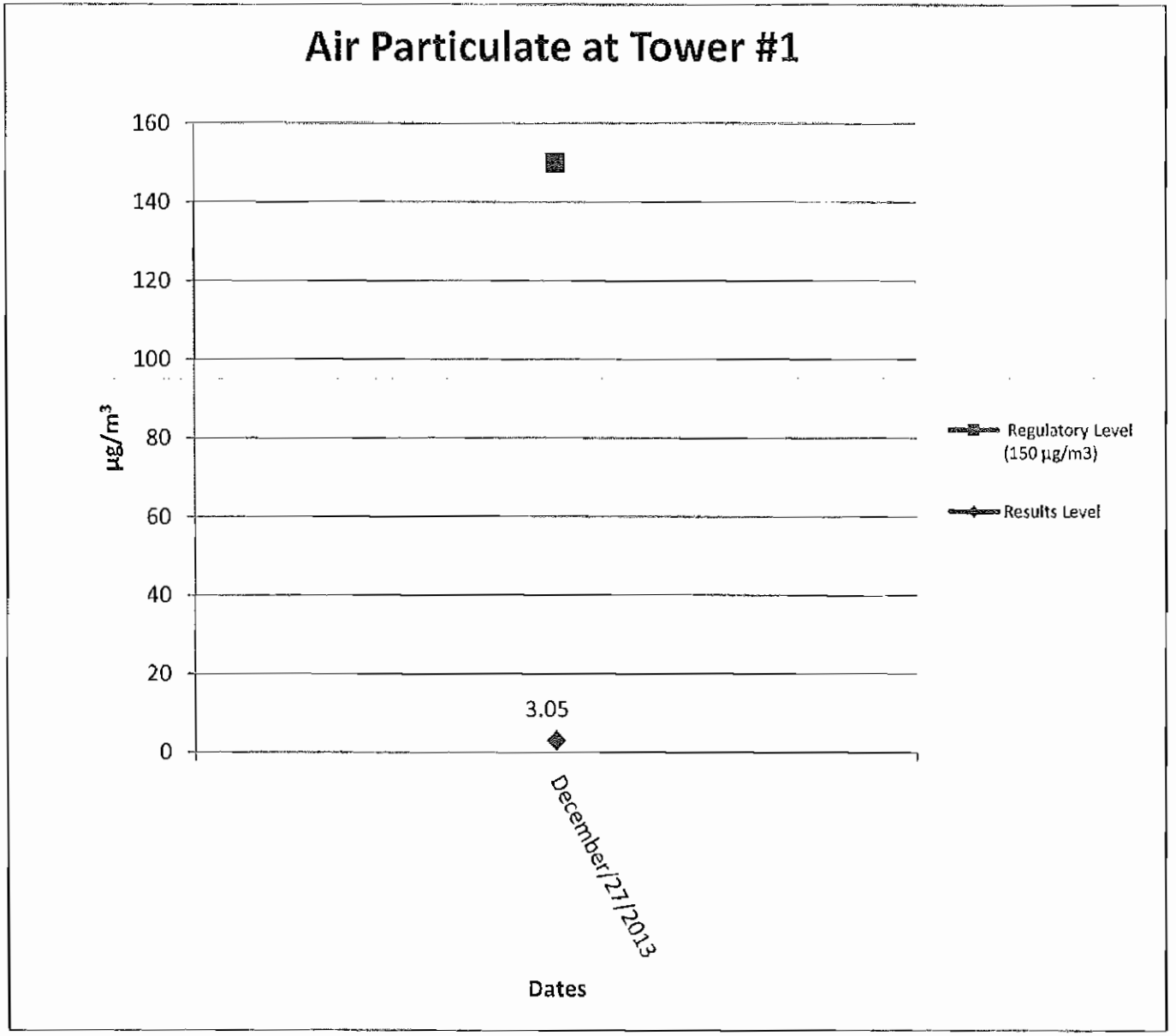
(b) The 1997 standard—and the implementation rules for that standard—will remain in place for implementation purposes as EPA undertakes rulemaking to address the transition from the 1997 ozone standard to the 2008 ozone standard.

[8] (a) The standard is attained when the expected number of days per calendar year with maximum hourly average concentrations above 0.12 ppm is ≤ 1.

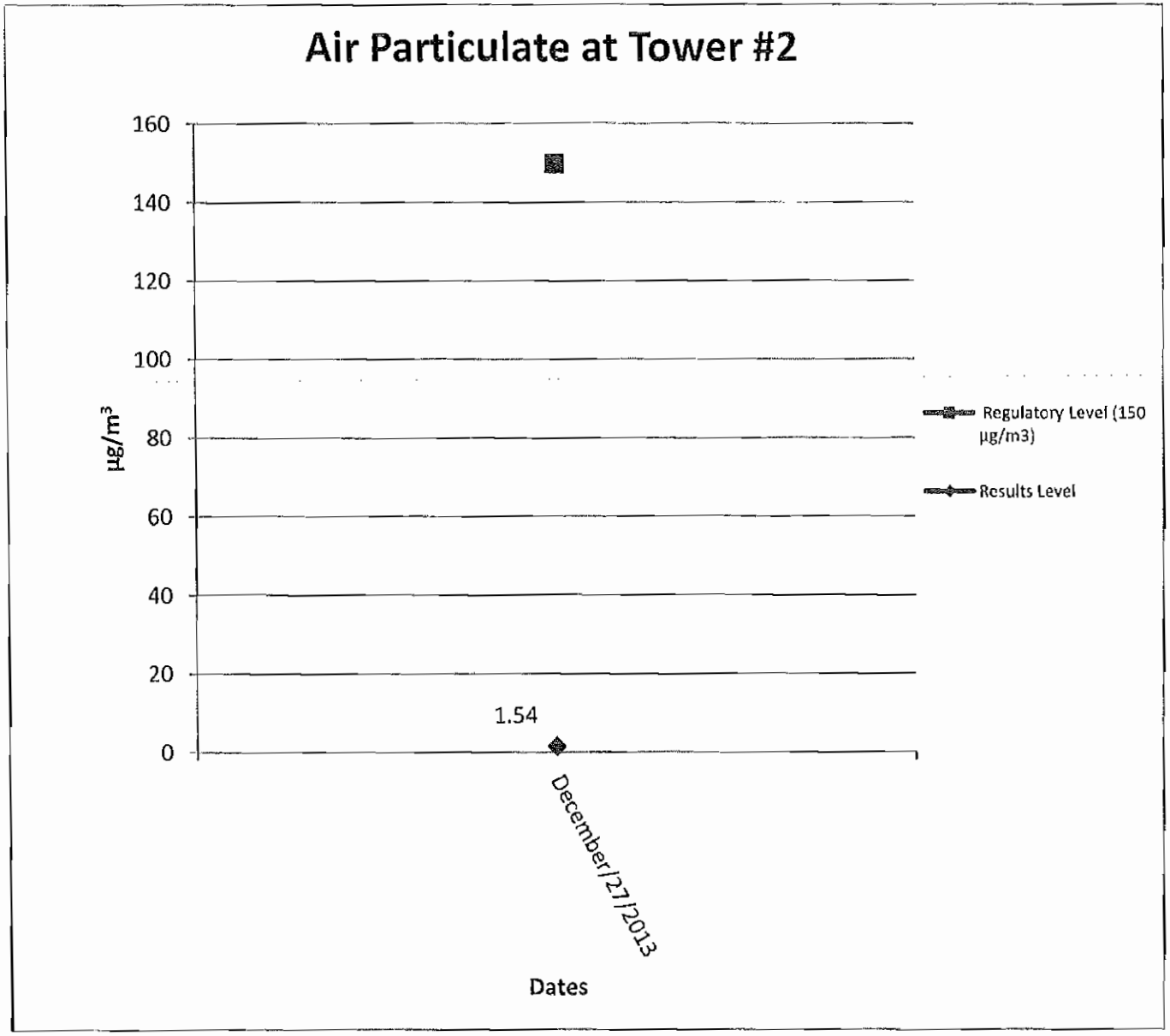
(b) As of June 15, 2005 EPA revoked the 1-hour ozone standard in all areas except the 8-hour ozone nonattainment Early Action Compact (EAC) Areas.

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APPENDIX 3
GRAPHICS OF MASS vs DATE



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APPENDIX 4

TOWER #1 AIR PARTICULATE MONITORING

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"Model Number", "DataRAM 4 ", 106
"Serial no. ", "D788 "
"Device no. ", 1
"Tag Number ", 63
"Start Time ", 07:12:09
"Start Date ", 27-Dec-2013
"Log Period ", 00:01:00
"Number ", 378
"CalFactor ", 1.000000
"Unit ", 0
"Unit Name ", "(MASS)ug/m3"
"SIZE_CORRECT", "ENABLED"
"TEMPUNITS ", F
"Max MASS ", 10.760150
"Max MASS @ ", 174 ,10:06:09 ,27-Dec-2013
"Avg MASS ", 3.053568
"Max Diam ", 2.628366
"Max Diam @ ", 174 ,10:06:09 ,27-Dec-2013
"Avg Diam ", 0.744030
"ALARM ", "DISABLED"
"ALARM_LEVEL ", 0.0
"AUTO_ZERO ", "DISABLED"
"AZ INTERVAL ", 1
"Errors ", 0000

record	"(MASS)ug/m3"	Temp	RHumidity	Diameter		
1,	7.3,	73.5,	48,	0.7312	,07:13:09	,27-Dec-2013
2,	3.8,	73.8,	55,	0.7389	,07:14:09	,27-Dec-2013
3,	3.5,	74.1,	59,	0.5080	,07:15:09	,27-Dec-2013
4,	3.5,	74.5,	62,	0.5243	,07:16:09	,27-Dec-2013
5,	3.6,	74.9,	63,	0.6010	,07:17:09	,27-Dec-2013
6,	3.2,	75.3,	65,	0.5616	,07:18:09	,27-Dec-2013
7,	3.2,	75.6,	65,	0.5283	,07:19:09	,27-Dec-2013
8,	3.3,	76.1,	66,	0.5674	,07:20:09	,27-Dec-2013
9,	3.1,	76.4,	66,	0.6001	,07:21:09	,27-Dec-2013
10,	3.2,	76.8,	67,	0.4969	,07:22:09	,27-Dec-2013
11,	3.2,	77.2,	67,	0.6513	,07:23:09	,27-Dec-2013
12,	2.8,	77.6,	67,	0.4645	,07:24:09	,27-Dec-2013
13,	3.3,	78.0,	67,	0.5477	,07:25:09	,27-Dec-2013
14,	2.9,	78.4,	67,	0.5614	,07:26:09	,27-Dec-2013
15,	2.8,	78.9,	67,	0.5418	,07:27:09	,27-Dec-2013
16,	2.8,	79.2,	66,	0.5201	,07:28:09	,27-Dec-2013
17,	3.1,	79.7,	66,	0.5012	,07:29:09	,27-Dec-2013
18,	2.9,	80.1,	65,	0.5251	,07:30:09	,27-Dec-2013
19,	2.8,	80.5,	65,	0.4812	,07:31:09	,27-Dec-2013
20,	2.7,	80.9,	64,	0.4650	,07:32:09	,27-Dec-2013
21,	2.9,	81.3,	63,	0.5941	,07:33:09	,27-Dec-2013
22,	3.1,	81.7,	63,	0.5755	,07:34:09	,27-Dec-2013
23,	3.0,	82.1,	62,	0.5016	,07:35:09	,27-Dec-2013
24,	3.2,	82.5,	62,	0.6058	,07:36:09	,27-Dec-2013
25,	3.2,	82.9,	61,	0.6619	,07:37:09	,27-Dec-2013
26,	3.2,	83.3,	61,	0.6448	,07:38:09	,27-Dec-2013
27,	3.1,	83.6,	60,	0.6326	,07:39:09	,27-Dec-2013
28,	2.9,	84.0,	60,	0.5034	,07:40:09	,27-Dec-2013
29,	3.3,	84.4,	59,	0.6362	,07:41:09	,27-Dec-2013
30,	3.4,	84.7,	59,	0.6514	,07:42:09	,27-Dec-2013
31,	3.9,	85.1,	58,	0.9586	,07:43:09	,27-Dec-2013
32,	3.5,	85.4,	58,	0.7194	,07:44:09	,27-Dec-2013
33,	3.5,	85.7,	57,	0.6534	,07:45:09	,27-Dec-2013
34,	3.7,	86.0,	57,	0.7368	,07:46:09	,27-Dec-2013
35,	3.5,	86.3,	57,	0.6843	,07:47:09	,27-Dec-2013
36,	3.4,	86.6,	56,	0.7361	,07:48:09	,27-Dec-2013
37,	3.5,	86.9,	56,	0.6417	,07:49:09	,27-Dec-2013
38,	3.2,	87.1,	55,	0.7161	,07:50:09	,27-Dec-2013
39,	3.1,	87.3,	55,	0.7000	,07:51:09	,27-Dec-2013

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40,	3.1,	87.7,	55,	0.6336	,07:52:09	,27-Dec-2013
41,	3.1,	88.0,	54,	0.5989	,07:53:09	,27-Dec-2013
42,	4.3,	88.2,	53,	1.1232	,07:54:09	,27-Dec-2013
43,	3.7,	88.5,	53,	0.7328	,07:55:09	,27-Dec-2013
44,	3.5,	88.7,	52,	0.7794	,07:56:09	,27-Dec-2013
45,	4.3,	88.9,	52,	1.0259	,07:57:09	,27-Dec-2013
46,	3.4,	89.1,	52,	0.6549	,07:58:09	,27-Dec-2013
47,	3.8,	89.4,	52,	0.8277	,07:59:09	,27-Dec-2013
48,	5.2,	89.6,	51,	1.3538	,08:00:09	,27-Dec-2013
49,	4.8,	89.7,	51,	1.1835	,08:01:09	,27-Dec-2013
50,	3.7,	89.9,	51,	0.8689	,08:02:09	,27-Dec-2013
51,	4.5,	90.0,	50,	1.1524	,08:03:09	,27-Dec-2013
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274,	2.1,	96.7,	39,	0.6036	,11:46:09	,27-Dec-2013
275,	1.7,	96.7,	39,	0.5565	,11:47:09	,27-Dec-2013
276,	2.2,	96.7,	40,	0.6632	,11:48:09	,27-Dec-2013
277,	2.1,	96.7,	40,	0.7105	,11:49:09	,27-Dec-2013
278,	1.9,	96.8,	40,	0.5581	,11:50:09	,27-Dec-2013
279,	2.1,	96.9,	40,	0.5532	,11:51:09	,27-Dec-2013
280,	1.9,	97.0,	40,	0.4722	,11:52:09	,27-Dec-2013
281,	2.9,	97.0,	40,	0.8249	,11:53:09	,27-Dec-2013
282,	3.9,	97.1,	40,	1.0531	,11:54:09	,27-Dec-2013
283,	9.6,	97.1,	41,	2.2817	,11:55:09	,27-Dec-2013
284,	2.7,	97.1,	41,	0.8078	,11:56:09	,27-Dec-2013
285,	2.7,	97.1,	41,	0.5902	,11:57:09	,27-Dec-2013
286,	2.4,	97.1,	42,	0.5711	,11:58:09	,27-Dec-2013
287,	1.9,	97.1,	42,	0.5288	,11:59:09	,27-Dec-2013
288,	2.7,	97.1,	41,	0.6438	,12:00:09	,27-Dec-2013
289,	2.2,	97.1,	41,	0.5454	,12:01:09	,27-Dec-2013
290,	2.5,	97.1,	41,	0.6346	,12:02:09	,27-Dec-2013
291,	2.0,	97.1,	41,	0.6182	,12:03:09	,27-Dec-2013
292,	2.4,	97.1,	41,	0.5596	,12:04:09	,27-Dec-2013
293,	3.3,	97.1,	41,	0.9400	,12:05:09	,27-Dec-2013
294,	2.9,	97.0,	41,	0.9372	,12:06:09	,27-Dec-2013
295,	2.0,	97.0,	41,	0.6471	,12:07:09	,27-Dec-2013

296,	3.9,	97.0,	41,	0.9513	,12:08:09	,27-Dec-2013
297,	2.8,	96.9,	41,	0.8650	,12:09:09	,27-Dec-2013
298,	2.6,	96.8,	41,	0.7893	,12:10:09	,27-Dec-2013
299,	2.8,	96.6,	41,	0.8330	,12:11:09	,27-Dec-2013
300,	2.4,	96.5,	41,	0.7064	,12:12:09	,27-Dec-2013
301,	2.6,	96.4,	41,	0.7447	,12:13:09	,27-Dec-2013
302,	2.1,	96.3,	41,	0.5461	,12:14:09	,27-Dec-2013
303,	2.1,	96.3,	41,	0.5340	,12:15:09	,27-Dec-2013
304,	2.1,	96.3,	41,	0.5286	,12:16:09	,27-Dec-2013
305,	2.3,	96.3,	41,	0.6846	,12:17:09	,27-Dec-2013
306,	2.1,	96.3,	41,	0.7002	,12:18:09	,27-Dec-2013
307,	2.3,	96.3,	41,	0.6084	,12:19:09	,27-Dec-2013
308,	2.1,	96.3,	41,	0.5582	,12:20:09	,27-Dec-2013
309,	2.3,	96.4,	41,	0.6212	,12:21:09	,27-Dec-2013
310,	1.9,	96.4,	41,	0.5182	,12:22:09	,27-Dec-2013
311,	2.8,	96.6,	42,	0.7630	,12:23:09	,27-Dec-2013
312,	2.5,	96.8,	42,	0.6933	,12:24:09	,27-Dec-2013
313,	2.2,	96.9,	42,	0.4734	,12:25:09	,27-Dec-2013
314,	2.0,	97.0,	41,	0.5174	,12:26:09	,27-Dec-2013
315,	1.9,	97.1,	41,	0.5582	,12:27:09	,27-Dec-2013
316,	1.8,	97.2,	41,	0.5468	,12:28:09	,27-Dec-2013
317,	2.0,	97.3,	40,	0.5365	,12:29:09	,27-Dec-2013
318,	1.6,	97.3,	40,	0.5344	,12:30:09	,27-Dec-2013
319,	1.5,	97.2,	40,	0.5337	,12:31:09	,27-Dec-2013
320,	2.3,	97.2,	40,	0.6563	,12:32:09	,27-Dec-2013
321,	2.2,	97.1,	40,	0.5556	,12:33:09	,27-Dec-2013
322,	2.2,	97.0,	40,	0.4914	,12:34:09	,27-Dec-2013
323,	1.9,	96.9,	39,	0.5204	,12:35:09	,27-Dec-2013
324,	2.0,	96.8,	40,	0.5199	,12:36:09	,27-Dec-2013
325,	2.0,	96.7,	40,	0.5028	,12:37:09	,27-Dec-2013
326,	2.0,	96.7,	40,	0.5638	,12:38:09	,27-Dec-2013
327,	1.3,	96.5,	40,	0.4391	,12:39:09	,27-Dec-2013
328,	1.9,	96.4,	40,	0.4845	,12:40:09	,27-Dec-2013
329,	1.9,	96.5,	40,	0.4806	,12:41:09	,27-Dec-2013
330,	2.0,	96.5,	40,	0.5255	,12:42:09	,27-Dec-2013
331,	1.9,	96.6,	40,	0.4659	,12:43:09	,27-Dec-2013
332,	1.5,	96.7,	40,	0.4608	,12:44:09	,27-Dec-2013
333,	1.4,	96.9,	41,	0.4958	,12:45:09	,27-Dec-2013
334,	1.7,	97.0,	41,	0.5042	,12:46:09	,27-Dec-2013
335,	1.9,	97.0,	41,	0.5732	,12:47:09	,27-Dec-2013
336,	3.2,	97.1,	41,	1.0083	,12:48:09	,27-Dec-2013
337,	2.8,	97.1,	41,	0.8864	,12:49:09	,27-Dec-2013
338,	2.5,	97.2,	41,	0.7596	,12:50:09	,27-Dec-2013
339,	2.8,	97.2,	41,	0.8153	,12:51:09	,27-Dec-2013
340,	2.3,	97.2,	41,	0.6225	,12:52:09	,27-Dec-2013
341,	2.1,	97.3,	41,	0.5106	,12:53:09	,27-Dec-2013
342,	2.1,	97.3,	41,	0.6138	,12:54:09	,27-Dec-2013
343,	2.4,	97.3,	41,	0.5953	,12:55:09	,27-Dec-2013
344,	1.8,	97.4,	41,	0.4704	,12:56:09	,27-Dec-2013
345,	2.1,	97.4,	41,	0.4931	,12:57:09	,27-Dec-2013
346,	2.0,	97.5,	41,	0.4798	,12:58:09	,27-Dec-2013
347,	2.1,	97.4,	41,	0.7287	,12:59:09	,27-Dec-2013
348,	1.7,	97.5,	40,	0.6115	,13:00:09	,27-Dec-2013
349,	1.8,	97.5,	40,	0.6453	,13:01:09	,27-Dec-2013
350,	1.7,	97.4,	40,	0.5613	,13:02:09	,27-Dec-2013
351,	1.6,	97.4,	40,	0.5083	,13:03:09	,27-Dec-2013
352,	2.1,	97.4,	40,	0.5897	,13:04:09	,27-Dec-2013
353,	2.3,	97.5,	40,	0.5428	,13:05:09	,27-Dec-2013
354,	1.9,	97.6,	40,	0.5289	,13:06:09	,27-Dec-2013
355,	1.9,	97.6,	40,	0.5544	,13:07:09	,27-Dec-2013
356,	1.8,	97.6,	40,	0.4536	,13:08:09	,27-Dec-2013
357,	2.0,	97.6,	40,	0.5903	,13:09:09	,27-Dec-2013
358,	2.3,	97.6,	40,	0.6308	,13:10:09	,27-Dec-2013
359,	1.9,	97.5,	40,	0.5054	,13:11:09	,27-Dec-2013

CONFIDENTIAL - ATTORNEYS EYES

360,	1.9,	97.4,	40,	0.4473	,13:12:09	,27-Dec-2013
361,	1.8,	97.3,	40,	0.4291	,13:13:09	,27-Dec-2013
362,	2.0,	97.2,	39,	0.5148	,13:14:09	,27-Dec-2013
363,	1.9,	97.2,	40,	0.5406	,13:15:09	,27-Dec-2013
364,	1.7,	97.0,	40,	0.4704	,13:16:09	,27-Dec-2013
365,	1.9,	96.9,	40,	0.5372	,13:17:09	,27-Dec-2013
366,	2.1,	96.8,	40,	0.5673	,13:18:09	,27-Dec-2013
367,	2.1,	96.7,	40,	0.6244	,13:19:09	,27-Dec-2013
368,	2.1,	96.6,	41,	0.6534	,13:20:09	,27-Dec-2013
369,	2.2,	96.5,	41,	0.6036	,13:21:09	,27-Dec-2013
370,	2.5,	96.3,	41,	0.6731	,13:22:09	,27-Dec-2013
371,	2.4,	96.2,	41,	0.6375	,13:23:09	,27-Dec-2013
372,	2.3,	96.1,	41,	0.5796	,13:24:09	,27-Dec-2013
373,	2.2,	96.0,	41,	0.6119	,13:25:09	,27-Dec-2013
374,	1.9,	95.8,	41,	0.5356	,13:26:09	,27-Dec-2013
375,	2.7,	95.7,	41,	0.7465	,13:27:09	,27-Dec-2013
376,	2.5,	95.5,	41,	0.7258	,13:28:09	,27-Dec-2013
377,	2.9,	95.5,	41,	0.7601	,13:29:09	,27-Dec-2013
378,	3.0,	95.5,	41,	0.8596	,13:30:09	,27-Dec-2013

CONFIDENTIAL - PRIVILEGE

DataRAM 4 SN# D7668 Dev# 1 Tag# 63 start 27-Dec-2013 07:12:09 interval 00:01:00
(MASS)ug/m3
Temp (F)
Humidity (RH%)
Diameter (nm)
95
90
85
80
75
70
65
60
55
50
45
40
35
30
25
20
15
10
5
0
12/27/13 07:30:00
12/27/13 08:00:00
12/27/13 08:30:00
12/27/13 09:00:00
12/27/13 09:30:00
12/27/13 10:00:00
12/27/13 10:30:00
12/27/13 11:00:00
12/27/13 11:30:00
12/27/13 12:00:00
12/27/13 12:30:00
12/27/13 13:00:00
12/27/13 13:30:00

DataRAM 4 SN# D788 Dev# 1 Tag# 63 start:27-Dec-2013 07:12:09 interval 00:01:00
(MASS)ug/m3
Temp (F)
Humidity (RH%)
Diameter (nm)
0
5
10
15
20
25
30
35
40
45
50
55
60
65
12/27/13 07:30:00
12/27/13 08:00:00
12/27/13 08:30:00
12/27/13 09:00:00
12/27/13 09:30:00
12/27/13 10:00:00
12/27/13 10:30:00
12/27/13 11:00:00
12/27/13 11:30:00
12/27/13 12:00:00
12/27/13 12:30:00
12/27/13 13:00:00
12/27/13 13:30:00

DataRAM 4 SN#:D708 Dev#:1 Tag#:63 start:27-Dec-2013 07:12:09 interval: 00:01:00
(MASS)ug/m3
Temp (F)
Humidity (RH%)
Diameter (nm)
2,600
2,400
2,200
2,000
1,800
1,600
1,400
1,200
1,000
800
600
400
200
0
12/27/13 07:30:00
12/27/13 08:00:00
12/27/13 08:30:00
12/27/13 09:00:00
12/27/13 09:30:00
12/27/13 10:00:00
12/27/13 10:30:00
12/27/13 11:00:00
12/27/13 11:30:00
12/27/13 12:00:00
12/27/13 12:30:00
12/27/13 13:00:00
12/27/13 13:30:00

APPENDIX 5

TOWER #2 AIR PARTICULATE MONITORING

CONFIDENTIAL & PRIVILEGED

```
"Model Number", "DataRAM 4 ", 106
 Serial no.  ", "D786      "
"Device no.  ", HOMECA RECYCLING,PR OLEFINS TORRE 2 SUR
"Tag Number  ", 22
 Start Time  ", 07:21:01
"Start Date  ", 27-Dec-2013
"Log Period  ", 00:01:00
 Number      ", 560
 CalFactor   ", 1.000000
"Unit        ", 0
"Unit Name   ", "(MASS )ug/m3"
 SIZE_CORRECT", "ENABLED"
"TEMPUNITS   ", F
"Max MASS    ", 4.955760
 Max MASS  @ ",   ,13:40:01  ,27-Dec-2013
 Avg MASS    ", 1.535524
"Max Diam    ", 0.545588
"Max Diam @  ",   ,07:20:01  ,27-Dec-2013
 Avg Diam    ", 0.378825
"ALARM       ", "DISABLED"
"ALARM_LEVEL ", 0.0
 AUTO_ZERO   ", "DISABLED"
 AZ INTERVAL ", 1
"Errors      ", 0000
 ecord,"(MASS )ug/m3", Temp, RHumidity, Diameter
     1,        2.2,  84.4,   54,   0.35  ,07:22:01  ,27-Dec-2013
     2,        1.5,  84.4,   54,   0.35  ,07:23:01  ,27-Dec-2013
     3,        1.1,  84.4,   54,   0.35  ,07:24:01  ,27-Dec-2013
     4,        1.3,  84.3,   54,   0.35  ,07:25:01  ,27-Dec-2013
     5,        1.5,  84.3,   54,   0.35  ,07:26:01  ,27-Dec-2013
     6,        1.5,  84.2,   55,   0.37  ,07:27:01  ,27-Dec-2013
     7,        1.4,  84.2,   55,   0.37  ,07:28:01  ,27-Dec-2013
     8,        1.3,  84.1,   55,   0.37  ,07:29:01  ,27-Dec-2013
     9,        0.9,  84.1,   55,   0.36  ,07:30:01  ,27-Dec-2013
    10,        1.5,  84.0,   55,   0.37  ,07:31:01  ,27-Dec-2013
    11,        1.1,  83.9,   55,   0.35  ,07:32:01  ,27-Dec-2013
    12,        1.2,  83.9,   55,   0.35  ,07:33:01  ,27-Dec-2013
    13,        1.1,  83.8,   55,   0.35  ,07:34:01  ,27-Dec-2013
    14,        1.9,  83.8,   55,   0.38  ,07:35:01  ,27-Dec-2013
    15,        2.3,  83.7,   56,   0.54  ,07:36:01  ,27-Dec-2013
    16,        2.1,  83.7,   56,   0.43  ,07:37:01  ,27-Dec-2013
    17,        1.4,  83.6,   56,   0.36  ,07:38:01  ,27-Dec-2013
    18,        1.4,  83.6,   56,   0.36  ,07:39:01  ,27-Dec-2013
    19,        1.3,  83.5,   56,   0.36  ,07:40:01  ,27-Dec-2013
    20,        1.5,  83.5,   56,   0.36  ,07:41:01  ,27-Dec-2013
    21,        1.4,  83.5,   56,   0.36  ,07:42:01  ,27-Dec-2013
    22,        1.2,  83.4,   56,   0.36  ,07:43:01  ,27-Dec-2013
    23,        1.4,  83.4,   56,   0.36  ,07:44:01  ,27-Dec-2013
    24,        0.9,  83.3,   56,   0.35  ,07:45:01  ,27-Dec-2013
    25,        1.3,  83.3,   56,   0.36  ,07:46:01  ,27-Dec-2013
    26,        1.1,  83.3,   56,   0.36  ,07:47:01  ,27-Dec-2013
    27,        1.7,  83.2,   57,   0.36  ,07:48:01  ,27-Dec-2013
    28,        1.7,  83.2,   57,   0.35  ,07:49:01  ,27-Dec-2013
    29,        1.9,  83.2,   57,   0.34  ,07:50:01  ,27-Dec-2013
    30,        1.6,  83.2,   57,   0.37  ,07:51:01  ,27-Dec-2013
    31,        1.4,  83.1,   57,   0.35  ,07:52:01  ,27-Dec-2013
    32,        1.0,  83.1,   57,   0.34  ,07:53:01  ,27-Dec-2013
    33,        1.5,  83.0,   57,   0.34  ,07:54:01  ,27-Dec-2013
    34,        1.5,  83.0,   57,   0.35  ,07:55:01  ,27-Dec-2013
    35,        2.0,  83.0,   57,   0.35  ,07:56:01  ,27-Dec-2013
    36,        2.0,  83.0,   57,   0.36  ,07:57:01  ,27-Dec-2013
    37,        1.6,  83.0,   57,   0.35  ,07:58:01  ,27-Dec-2013
    38,        1.8,  82.9,   57,   0.34  ,07:59:01  ,27-Dec-2013
    39,        1.8,  82.9,   57,   0.33  ,08:00:01  ,27-Dec-2013
```

40,	1.6,	82.9,	57,	0.34	,08:01:01	,27-Dec-2013
41,	2.0,	82.9,	57,	0.34	,08:02:01	,27-Dec-2013
42,	1.7,	82.9,	57,	0.34	,08:03:01	,27-Dec-2013
43,	1.9,	82.9,	57,	0.39	,08:04:01	,27-Dec-2013
44,	2.7,	82.8,	57,	0.40	,08:05:01	,27-Dec-2013
45,	2.9,	82.9,	57,	0.35	,08:06:01	,27-Dec-2013
46,	4.8,	82.8,	57,	0.33	,08:07:01	,27-Dec-2013
47,	3.6,	82.8,	57,	0.36	,08:08:01	,27-Dec-2013
48,	5.0,	82.8,	57,	0.33	,08:09:01	,27-Dec-2013
49,	3.8,	82.9,	57,	0.34	,08:10:01	,27-Dec-2013
50,	2.7,	82.8,	56,	0.33	,08:11:01	,27-Dec-2013
51,	2.4,	82.8,	56,	0.33	,08:12:01	,27-Dec-2013
52,	2.1,	82.8,	56,	0.34	,08:13:01	,27-Dec-2013
53,	1.9,	82.8,	57,	0.35	,08:14:01	,27-Dec-2013
54,	1.5,	82.8,	56,	0.35	,08:15:01	,27-Dec-2013
55,	2.0,	82.8,	57,	0.35	,08:16:01	,27-Dec-2013
56,	1.7,	82.8,	57,	0.35	,08:17:01	,27-Dec-2013
57,	1.9,	82.8,	57,	0.36	,08:18:01	,27-Dec-2013
58,	1.8,	82.8,	57,	0.36	,08:19:01	,27-Dec-2013
59,	1.8,	82.7,	57,	0.37	,08:20:01	,27-Dec-2013
60,	1.9,	82.7,	57,	0.35	,08:21:01	,27-Dec-2013
61,	1.7,	82.7,	57,	0.32	,08:22:01	,27-Dec-2013
62,	1.9,	82.7,	57,	0.32	,08:23:01	,27-Dec-2013
63,	1.9,	82.7,	57,	0.32	,08:24:01	,27-Dec-2013
64,	2.1,	82.7,	57,	0.34	,08:25:01	,27-Dec-2013
65,	1.8,	82.6,	57,	0.37	,08:26:01	,27-Dec-2013
66,	1.7,	82.7,	57,	0.39	,08:27:01	,27-Dec-2013
67,	2.1,	82.7,	57,	0.40	,08:28:01	,27-Dec-2013
68,	2.0,	82.6,	57,	0.37	,08:29:01	,27-Dec-2013
69,	2.0,	82.6,	58,	0.35	,08:30:01	,27-Dec-2013
70,	1.9,	82.6,	57,	0.34	,08:31:01	,27-Dec-2013
71,	1.9,	82.5,	58,	0.35	,08:32:01	,27-Dec-2013
72,	2.1,	82.5,	58,	0.37	,08:33:01	,27-Dec-2013
73,	2.0,	82.5,	58,	0.36	,08:34:01	,27-Dec-2013
74,	1.8,	82.5,	58,	0.35	,08:35:01	,27-Dec-2013
75,	2.0,	82.5,	58,	0.34	,08:36:01	,27-Dec-2013
76,	2.0,	82.5,	58,	0.34	,08:37:01	,27-Dec-2013
77,	1.9,	82.4,	58,	0.35	,08:38:01	,27-Dec-2013
78,	2.0,	82.4,	58,	0.36	,08:39:01	,27-Dec-2013
79,	1.7,	82.4,	58,	0.39	,08:40:01	,27-Dec-2013
80,	2.0,	82.4,	58,	0.39	,08:41:01	,27-Dec-2013
81,	1.7,	82.4,	58,	0.39	,08:42:01	,27-Dec-2013
82,	1.7,	82.3,	58,	0.40	,08:43:01	,27-Dec-2013
83,	1.8,	82.3,	58,	0.39	,08:44:01	,27-Dec-2013
84,	1.8,	82.4,	58,	0.39	,08:45:01	,27-Dec-2013
85,	2.0,	82.3,	58,	0.41	,08:46:01	,27-Dec-2013
86,	1.7,	82.3,	58,	0.40	,08:47:01	,27-Dec-2013
87,	1.5,	82.3,	58,	0.39	,08:48:01	,27-Dec-2013
88,	1.6,	82.3,	58,	0.38	,08:49:01	,27-Dec-2013
89,	1.3,	82.3,	58,	0.37	,08:50:01	,27-Dec-2013
90,	1.8,	82.3,	58,	0.39	,08:51:01	,27-Dec-2013
91,	1.6,	82.3,	58,	0.40	,08:52:01	,27-Dec-2013
92,	1.3	82.3,	58,	0.35	,08:53:01	,27-Dec-2013
126,	1.6,	81.6,	58,	0.35	,08:54:01	,27-Dec-2013
127,	1.8,	81.6,	59,	0.35	,08:55:01	,27-Dec-2013
128,	1.5,	81.6,	58,	0.36	,08:56:01	,27-Dec-2013
129,	1.7,	81.6,	58,	0.36	,08:57:01	,27-Dec-2013
130,	1.7,	81.6,	58,	0.37	,08:58:01	,27-Dec-2013
131,	1.5,	81.5,	59,	0.37	,08:59:01	,27-Dec-2013
132,	2.0,	81.5,	58,	0.39	,09:00:01	,27-Dec-2013
133,	1.7,	81.5,	58,	0.39	,09:01:01	,27-Dec-2013
134,	1.2,	81.5,	58,	0.38	,09:02:01	,27-Dec-2013
135,	1.6,	81.5,	59,	0.38	,09:03:01	,27-Dec-2013
136,	1.2,	81.4,	59,	0.37	,09:04:01	,27-Dec-2013

137,	1.5,	81.4,	59,	0.38	,09:05:01	,27-Dec-2013
138,	1.7,	81.4,	59,	0.38	,09:06:01	,27-Dec-2013
139,	1.8,	81.4,	59,	0.37	,09:07:01	,27-Dec-2013
140,	1.7,	81.4,	59,	0.38	,09:08:01	,27-Dec-2013
141,	1.8,	81.4,	59,	0.43	,09:09:01	,27-Dec-2013
142,	1.6,	81.4,	59,	0.42	,09:10:01	,27-Dec-2013
143,	1.6,	81.3,	59,	0.40	,09:11:01	,27-Dec-2013
144,	1.9,	81.3,	59,	0.38	,09:12:01	,27-Dec-2013
145,	1.5,	81.2,	59,	0.37	,09:13:01	,27-Dec-2013
146,	1.8,	81.2,	59,	0.37	,09:14:01	,27-Dec-2013
147,	1.6,	81.2,	59,	0.36	,09:15:01	,27-Dec-2013
148,	1.5,	81.1,	59,	0.35	,09:16:01	,27-Dec-2013
149,	1.5,	81.1,	59,	0.35	,09:17:01	,27-Dec-2013
150,	1.6,	81.1,	59,	0.35	,09:18:01	,27-Dec-2013
151,	1.6,	81.1,	59,	0.35	,09:19:01	,27-Dec-2013
152,	1.8,	81.1,	59,	0.38	,09:20:01	,27-Dec-2013
153,	1.5,	81.1,	59,	0.37	,09:21:01	,27-Dec-2013
154,	1.5,	81.0,	59,	0.37	,09:22:01	,27-Dec-2013
155,	1.6,	81.0,	59,	0.38	,09:23:01	,27-Dec-2013
156,	1.6,	81.0,	59,	0.38	,09:24:01	,27-Dec-2013
157,	2.0,	81.0,	59,	0.37	,09:25:01	,27-Dec-2013
158,	1.6,	81.0,	59,	0.36	,09:26:01	,27-Dec-2013
159,	1.3,	80.9,	59,	0.35	,09:27:01	,27-Dec-2013
160,	1.5,	80.9,	59,	0.36	,09:28:01	,27-Dec-2013
161,	1.4,	80.9,	59,	0.35	,09:29:01	,27-Dec-2013
162,	1.2,	80.9,	59,	0.35	,09:30:01	,27-Dec-2013
163,	1.5,	80.9,	59,	0.36	,09:31:01	,27-Dec-2013
164,	1.5,	80.9,	59,	0.36	,09:32:01	,27-Dec-2013
165,	1.5,	80.9,	59,	0.36	,09:33:01	,27-Dec-2013
166,	1.8,	80.8,	59,	0.36	,09:34:01	,27-Dec-2013
167,	1.6,	80.9,	59,	0.37	,09:35:01	,27-Dec-2013
168,	1.7,	80.9,	59,	0.38	,09:36:01	,27-Dec-2013
169,	1.4,	80.8,	59,	0.37	,09:37:01	,27-Dec-2013
170,	1.4,	80.8,	59,	0.36	,09:38:01	,27-Dec-2013
171,	1.9,	80.8,	59,	0.38	,09:39:01	,27-Dec-2013
172,	1.6,	80.8,	59,	0.38	,09:40:01	,27-Dec-2013
173,	1.6,	80.8,	59,	0.37	,09:41:01	,27-Dec-2013
174,	1.6,	80.8,	59,	0.39	,09:42:01	,27-Dec-2013
175,	1.6,	80.7,	59,	0.38	,09:43:01	,27-Dec-2013
176,	1.5,	80.7,	59,	0.37	,09:44:01	,27-Dec-2013
177,	1.6,	80.7,	59,	0.37	,09:45:01	,27-Dec-2013
178,	1.8,	80.7,	59,	0.38	,09:46:01	,27-Dec-2013
179,	1.6,	80.7,	59,	0.38	,09:47:01	,27-Dec-2013
180,	1.4,	80.7,	59,	0.36	,09:48:01	,27-Dec-2013
181,	1.3,	80.7,	59,	0.36	,09:49:01	,27-Dec-2013
182,	1.3,	80.7,	59,	0.37	,09:50:01	,27-Dec-2013
183,	1.7,	80.7,	59,	0.38	,09:51:01	,27-Dec-2013
184,	1.8,	80.7,	59,	0.42	,09:52:01	,27-Dec-2013
185,	1.1,	80.6,	59,	0.39	,09:53:01	,27-Dec-2013
186,	1.3,	80.6,	59,	0.39	,09:54:01	,27-Dec-2013
187,	1.6,	80.6,	59,	0.40	,09:55:01	,27-Dec-2013
188,	1.4,	80.5,	59,	0.38	,09:56:01	,27-Dec-2013
189,	1.4,	80.6,	59,	0.38	,09:57:01	,27-Dec-2013
190,	1.3,	80.6,	59,	0.39	,09:58:01	,27-Dec-2013
191,	1.6,	80.5,	59,	0.40	,09:59:01	,27-Dec-2013
192,	1.5,	80.5,	59,	0.39	,10:00:01	,27-Dec-2013
193,	1.7,	80.5,	59,	0.41	,10:01:01	,27-Dec-2013
194,	1.7,	80.5,	59,	0.41	,10:02:01	,27-Dec-2013
195,	1.3,	80.5,	59,	0.40	,10:03:01	,27-Dec-2013
196,	1.4,	80.5,	59,	0.41	,10:04:01	,27-Dec-2013
197,	1.8,	80.5,	59,	0.42	,10:05:01	,27-Dec-2013
198,	1.7,	80.5,	59,	0.39	,10:06:01	,27-Dec-2013
199,	1.5,	80.5,	59,	0.37	,10:07:01	,27-Dec-2013
200,	1.5,	80.4,	59,	0.36	,10:08:01	,27-Dec-2013

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201,	1.6,	80.5,	59,	0.35	,10:09:01	,27-Dec-2013
202,	1.6,	80.4,	59,	0.39	,10:10:01	,27-Dec-2013
203,	1.7,	80.4,	59,	0.39	,10:11:01	,27-Dec-2013
204,	1.4,	80.4,	59,	0.37	,10:12:01	,27-Dec-2013
205,	1.6,	80.4,	59,	0.38	,10:13:01	,27-Dec-2013
206,	1.7,	80.4,	59,	0.39	,10:14:01	,27-Dec-2013
207,	1.5,	80.4,	59,	0.39	,10:15:01	,27-Dec-2013
208,	1.6,	80.4,	59,	0.39	,10:16:01	,27-Dec-2013
209,	1.3,	80.4,	59,	0.37	,10:17:01	,27-Dec-2013
210,	1.8,	80.3,	59,	0.39	,10:18:01	,27-Dec-2013
211,	1.6,	80.3,	59,	0.38	,10:19:01	,27-Dec-2013
212,	1.3,	80.3,	60,	0.37	,10:20:01	,27-Dec-2013
213,	1.3,	80.3,	59,	0.37	,10:21:01	,27-Dec-2013
214,	1.5,	80.3,	59,	0.38	,10:22:01	,27-Dec-2013
215,	1.5,	80.3,	59,	0.38	,10:23:01	,27-Dec-2013
216,	1.4,	80.3,	59,	0.37	,10:24:01	,27-Dec-2013
217,	1.6,	80.3,	59,	0.37	,10:25:01	,27-Dec-2013
218,	1.6,	80.3,	59,	0.35	,10:26:01	,27-Dec-2013
219,	2.0,	80.2,	59,	0.38	,10:27:01	,27-Dec-2013
220,	1.4,	80.2,	59,	0.38	,10:28:01	,27-Dec-2013
221,	1.2,	80.3,	59,	0.38	,10:29:01	,27-Dec-2013
222,	1.4,	80.2,	59,	0.39	,10:30:01	,27-Dec-2013
223,	1.8,	80.2,	59,	0.41	,10:31:01	,27-Dec-2013
224,	1.3,	80.2,	59,	0.38	,10:32:01	,27-Dec-2013
225,	1.8,	80.2,	59,	0.38	,10:33:01	,27-Dec-2013
226,	1.7,	80.2,	59,	0.38	,10:34:01	,27-Dec-2013
227,	1.2,	80.2,	59,	0.37	,10:35:01	,27-Dec-2013
228,	1.5,	80.2,	59,	0.38	,10:36:01	,27-Dec-2013
229,	1.4,	80.2,	59,	0.37	,10:37:01	,27-Dec-2013
230,	1.6,	80.2,	60,	0.38	,10:38:01	,27-Dec-2013
231,	1.4,	80.2,	59,	0.38	,10:39:01	,27-Dec-2013
232,	1.6,	80.2,	59,	0.38	,10:40:01	,27-Dec-2013
233,	1.6,	80.1,	59,	0.38	,10:41:01	,27-Dec-2013
234,	1.6,	80.1,	60,	0.37	,10:42:01	,27-Dec-2013
235,	1.7,	80.1,	59,	0.41	,10:43:01	,27-Dec-2013
236,	1.5,	80.1,	60,	0.38	,10:44:01	,27-Dec-2013
237,	1.5,	80.1,	59,	0.43	,10:45:01	,27-Dec-2013
238,	1.5,	80.1,	60,	0.42	,10:46:01	,27-Dec-2013
239,	1.5,	80.1,	59,	0.42	,10:47:01	,27-Dec-2013
240,	1.6,	80.1,	59,	0.41	,10:48:01	,27-Dec-2013
241,	1.4,	80.0,	59,	0.40	,10:49:01	,27-Dec-2013
242,	1.8,	80.1,	59,	0.42	,10:50:01	,27-Dec-2013
243,	1.8,	80.1,	59,	0.42	,10:51:01	,27-Dec-2013
244,	1.3,	80.0,	59,	0.39	,10:52:01	,27-Dec-2013
245,	1.7,	80.0,	59,	0.39	,10:53:01	,27-Dec-2013
246,	1.5,	80.0,	60,	0.39	,10:54:01	,27-Dec-2013
247,	1.6,	80.0,	59,	0.39	,10:55:01	,27-Dec-2013
248,	1.8,	80.0,	60,	0.38	,10:56:01	,27-Dec-2013
249,	1.6,	80.0,	60,	0.37	,10:57:01	,27-Dec-2013
250,	1.5,	80.0,	59,	0.36	,10:58:01	,27-Dec-2013
251,	1.5,	80.0,	60,	0.36	,10:59:01	,27-Dec-2013
252,	1.5,	80.0,	59,	0.37	,11:00:01	,27-Dec-2013
253,	1.7,	80.0,	59,	0.36	,11:01:01	,27-Dec-2013
254,	1.8,	80.0,	59,	0.36	,11:02:01	,27-Dec-2013
255,	1.4,	80.0,	59,	0.34	,11:03:01	,27-Dec-2013
256,	1.5,	80.0,	59,	0.34	,11:04:01	,27-Dec-2013
257,	1.6,	80.0,	59,	0.34	,11:05:01	,27-Dec-2013
258,	1.6,	80.0,	59,	0.34	,11:06:01	,27-Dec-2013
259,	1.4,	80.0,	59,	0.34	,11:07:01	,27-Dec-2013
260,	1.7,	80.0,	59,	0.34	,11:08:01	,27-Dec-2013
261,	1.7,	80.0,	59,	0.34	,11:09:01	,27-Dec-2013
262,	1.6,	79.9,	60,	0.34	,11:10:01	,27-Dec-2013
263,	1.8,	80.0,	59,	0.35	,11:11:01	,27-Dec-2013
264,	1.2,	80.0,	60,	0.35	,11:12:01	,27-Dec-2013

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265,	1.7,	80.0,	59,	0.35	,11:13:01	,27-Dec-2013
266,	1.6,	80.0,	59,	0.36	,11:14:01	,27-Dec-2013
267,	1.5,	80.0,	59,	0.35	,11:15:01	,27-Dec-2013
268,	1.6,	80.0,	60,	0.36	,11:16:01	,27-Dec-2013
269,	1.3,	80.0,	59,	0.36	,11:17:01	,27-Dec-2013
270,	1.3,	80.0,	60,	0.36	,11:18:01	,27-Dec-2013
271,	1.7,	80.0,	60,	0.36	,11:19:01	,27-Dec-2013
272,	1.8,	79.9,	59,	0.35	,11:20:01	,27-Dec-2013
273,	1.9,	80.0,	60,	0.35	,11:21:01	,27-Dec-2013
274,	1.9,	79.9,	59,	0.35	,11:22:01	,27-Dec-2013
275,	1.6,	80.0,	60,	0.35	,11:23:01	,27-Dec-2013
276,	1.7,	80.0,	60,	0.35	,11:24:01	,27-Dec-2013
277,	2.0,	80.0,	59,	0.36	,11:25:01	,27-Dec-2013
278,	1.6,	79.9,	59,	0.35	,11:26:01	,27-Dec-2013
279,	1.8,	80.0,	60,	0.37	,11:27:01	,27-Dec-2013
280,	1.5,	80.0,	59,	0.36	,11:28:01	,27-Dec-2013
281,	1.4,	79.9,	60,	0.36	,11:29:01	,27-Dec-2013
282,	1.6,	79.9,	60,	0.38	,11:30:01	,27-Dec-2013
283,	1.4,	79.9,	59,	0.37	,11:31:01	,27-Dec-2013
284,	1.4,	79.9,	60,	0.37	,11:32:01	,27-Dec-2013
285,	1.4,	79.9,	60,	0.37	,11:33:01	,27-Dec-2013
286,	1.6,	79.9,	60,	0.39	,11:34:01	,27-Dec-2013
287,	1.5,	79.8,	60,	0.39	,11:35:01	,27-Dec-2013
288,	1.8,	79.9,	59,	0.39	,11:36:01	,27-Dec-2013
289,	1.7,	79.8,	59,	0.40	,11:37:01	,27-Dec-2013
290,	1.5,	79.8,	59,	0.39	,11:38:01	,27-Dec-2013
291,	1.3,	79.8,	60,	0.39	,11:39:01	,27-Dec-2013
292,	1.7,	79.8,	59,	0.40	,11:40:01	,27-Dec-2013
293,	1.8,	79.8,	59,	0.39	,11:41:01	,27-Dec-2013
294,	1.9,	79.8,	60,	0.40	,11:42:01	,27-Dec-2013
295,	2.0,	79.8,	60,	0.37	,11:43:01	,27-Dec-2013
296,	1.5,	79.7,	60,	0.36	,11:44:01	,27-Dec-2013
297,	1.8,	79.7,	60,	0.37	,11:45:01	,27-Dec-2013
298,	1.4,	79.7,	60,	0.38	,11:46:01	,27-Dec-2013
299,	1.4,	79.7,	60,	0.38	,11:47:01	,27-Dec-2013
300,	1.6,	79.7,	60,	0.40	,11:48:01	,27-Dec-2013
301,	1.5,	79.7,	60,	0.39	,11:49:01	,27-Dec-2013
302,	1.6,	79.7,	60,	0.40	,11:50:01	,27-Dec-2013
303,	1.7,	79.6,	60,	0.42	,11:51:01	,27-Dec-2013
304,	1.9,	79.6,	60,	0.41	,11:52:01	,27-Dec-2013
305,	1.7,	79.6,	59,	0.39	,11:53:01	,27-Dec-2013
306,	1.7,	79.6,	60,	0.37	,11:54:01	,27-Dec-2013
307,	1.7,	79.6,	59,	0.38	,11:55:01	,27-Dec-2013
308,	1.6,	79.6,	60,	0.39	,11:56:01	,27-Dec-2013
309,	1.7,	79.5,	60,	0.39	,11:57:01	,27-Dec-2013
310,	1.4,	79.5,	60,	0.37	,11:58:01	,27-Dec-2013
311,	1.7,	79.4,	60,	0.37	,11:59:01	,27-Dec-2013
312,	1.8,	79.4,	60,	0.38	,12:00:01	,27-Dec-2013
313,	1.5,	79.4,	60,	0.37	,12:01:01	,27-Dec-2013
314,	1.8,	79.4,	60,	0.37	,12:02:01	,27-Dec-2013
315,	1.6,	79.4,	60,	0.37	,12:03:01	,27-Dec-2013
316,	1.5,	79.3,	59,	0.40	,12:04:01	,27-Dec-2013
317,	1.4,	79.3,	60,	0.40	,12:05:01	,27-Dec-2013
318,	1.7,	79.3,	59,	0.39	,12:06:01	,27-Dec-2013
319,	1.6,	79.3,	59,	0.37	,12:07:01	,27-Dec-2013
320,	1.8,	79.3,	59,	0.38	,12:08:01	,27-Dec-2013
321,	1.7,	79.3,	59,	0.39	,12:09:01	,27-Dec-2013
322,	1.4,	79.3,	59,	0.40	,12:10:01	,27-Dec-2013
323,	1.5,	79.3,	59,	0.41	,12:11:01	,27-Dec-2013
324,	1.5,	79.2,	59,	0.41	,12:12:01	,27-Dec-2013
325,	1.4,	79.2,	59,	0.40	,12:13:01	,27-Dec-2013
326,	1.6,	79.2,	59,	0.39	,12:14:01	,27-Dec-2013
327,	1.5,	79.2,	59,	0.39	,12:15:01	,27-Dec-2013
328,	1.3,	79.1,	59,	0.37	,12:16:01	,27-Dec-2013

329,	1.7,	79.1,	59,	0.39	,12:17:01	,27-Dec-2013
330,	1.4,	79.1,	59,	0.40	,12:18:01	,27-Dec-2013
331,	1.6,	79.1,	59,	0.40	,12:19:01	,27-Dec-2013
332,	1.4,	79.1,	60,	0.39	,12:20:01	,27-Dec-2013
333,	1.4,	79.0,	60,	0.39	,12:21:01	,27-Dec-2013
334,	1.5,	79.1,	59,	0.40	,12:22:01	,27-Dec-2013
335,	1.5,	79.0,	59,	0.37	,12:23:01	,27-Dec-2013
336,	1.4,	79.0,	59,	0.36	,12:24:01	,27-Dec-2013
337,	1.5,	78.9,	59,	0.36	,12:25:01	,27-Dec-2013
338,	1.6,	78.9,	59,	0.36	,12:26:01	,27-Dec-2013
339,	1.5,	78.9,	59,	0.36	,12:27:01	,27-Dec-2013
340,	1.5,	78.9,	59,	0.36	,12:28:01	,27-Dec-2013
341,	1.3,	78.9,	60,	0.35	,12:29:01	,27-Dec-2013
342,	1.6,	78.8,	59,	0.37	,12:30:01	,27-Dec-2013
343,	1.7,	78.8,	59,	0.38	,12:31:01	,27-Dec-2013
344,	1.6,	78.8,	59,	0.39	,12:32:01	,27-Dec-2013
345,	1.4,	78.8,	59,	0.38	,12:33:01	,27-Dec-2013
346,	1.8,	78.8,	59,	0.40	,12:34:01	,27-Dec-2013
347,	1.4,	78.7,	59,	0.38	,12:35:01	,27-Dec-2013
348,	1.9,	78.7,	59,	0.40	,12:36:01	,27-Dec-2013
349,	1.3,	78.7,	59,	0.37	,12:37:01	,27-Dec-2013
350,	1.2,	78.7,	59,	0.36	,12:38:01	,27-Dec-2013
351,	1.6,	78.7,	59,	0.38	,12:39:01	,27-Dec-2013
352,	1.6,	78.7,	59,	0.38	,12:40:01	,27-Dec-2013
353,	1.5,	78.7,	59,	0.39	,12:41:01	,27-Dec-2013
354,	1.9,	78.7,	59,	0.41	,12:42:01	,27-Dec-2013
355,	1.9,	78.7,	59,	0.36	,12:43:01	,27-Dec-2013
356,	1.6,	78.7,	59,	0.35	,12:44:01	,27-Dec-2013
357,	1.6,	78.7,	59,	0.35	,12:45:01	,27-Dec-2013
358,	1.6,	78.7,	59,	0.35	,12:46:01	,27-Dec-2013
359,	1.4,	78.7,	59,	0.36	,12:47:01	,27-Dec-2013
360,	1.4,	78.7,	59,	0.37	,12:48:01	,27-Dec-2013
361,	1.5,	78.7,	59,	0.39	,12:49:01	,27-Dec-2013
362,	1.5,	78.7,	59,	0.39	,12:50:01	,27-Dec-2013
363,	1.4,	78.7,	59,	0.39	,12:51:01	,27-Dec-2013
364,	1.4,	78.6,	59,	0.39	,12:52:01	,27-Dec-2013
365,	1.5,	78.6,	59,	0.39	,12:53:01	,27-Dec-2013
366,	1.3,	78.7,	59,	0.38	,12:54:01	,27-Dec-2013
367,	1.4,	78.6,	59,	0.38	,12:55:01	,27-Dec-2013
368,	1.2,	78.6,	59,	0.37	,12:56:01	,27-Dec-2013
369,	1.6,	78.6,	59,	0.38	,12:57:01	,27-Dec-2013
370,	1.5,	78.6,	59,	0.38	,12:58:01	,27-Dec-2013
371,	1.1,	78.6,	59,	0.36	,12:59:01	,27-Dec-2013
372,	1.6,	78.6,	59,	0.38	,13:00:01	,27-Dec-2013
373,	1.5,	78.5,	59,	0.38	,13:01:01	,27-Dec-2013
374,	1.2,	78.6,	59,	0.37	,13:02:01	,27-Dec-2013
375,	1.3,	78.5,	58,	0.37	,13:03:01	,27-Dec-2013
376,	1.1,	78.5,	58,	0.37	,13:04:01	,27-Dec-2013
377,	1.3,	78.5,	58,	0.38	,13:05:01	,27-Dec-2013
378,	1.5,	78.5,	58,	0.39	,13:06:01	,27-Dec-2013
379,	1.6,	78.5,	58,	0.40	,13:07:01	,27-Dec-2013
380,	1.3,	78.5,	58,	0.37	,13:08:01	,27-Dec-2013
381,	1.4,	78.5,	58,	0.37	,13:09:01	,27-Dec-2013
382,	1.4,	78.5,	58,	0.36	,13:10:01	,27-Dec-2013
383,	1.6,	78.5,	58,	0.37	,13:11:01	,27-Dec-2013
384,	1.1,	78.5,	58,	0.36	,13:12:01	,27-Dec-2013
385,	1.2,	78.5,	58,	0.36	,13:13:01	,27-Dec-2013
386,	1.3,	78.5,	58,	0.37	,13:14:01	,27-Dec-2013
387,	1.8,	78.5,	58,	0.39	,13:15:01	,27-Dec-2013
388,	1.4,	78.4,	58,	0.37	,13:16:01	,27-Dec-2013
389,	1.5,	78.4,	58,	0.38	,13:17:01	,27-Dec-2013
390,	1.5,	78.4,	58,	0.38	,13:18:01	,27-Dec-2013
391,	1.5,	78.4,	58,	0.39	,13:19:01	,27-Dec-2013
392,	1.1,	78.4,	58,	0.37	,13:20:01	,27-Dec-2013

393,	1.4,	78.4,	58,	0.39	,13:21:01	,27-Dec-2013
394,	1.4,	78.4,	58,	0.40	,13:22:01	,27-Dec-2013
395,	1.5,	78.4,	58,	0.39	,13:23:01	,27-Dec-2013
396,	1.4,	78.4,	58,	0.39	,13:24:01	,27-Dec-2013
397,	1.4,	78.4,	58,	0.39	,13:25:01	,27-Dec-2013
398,	1.2,	78.4,	58,	0.38	,13:26:01	,27-Dec-2013
399,	1.1,	78.4,	58,	0.38	,13:27:01	,27-Dec-2013
400,	1.1,	78.4,	58,	0.38	,13:28:01	,27-Dec-2013
401,	1.3,	78.4,	58,	0.38	,13:29:01	,27-Dec-2013
402,	1.2,	78.3,	58,	0.38	,13:30:01	,27-Dec-2013
403,	1.4,	78.3,	58,	0.38	,13:31:01	,27-Dec-2013
404,	1.4,	78.3,	58,	0.39	,13:32:01	,27-Dec-2013
405,	1.4,	78.4,	58,	0.38	,13:33:01	,27-Dec-2013
406,	1.3,	78.3,	58,	0.38	,13:34:01	,27-Dec-2013
407,	1.1,	78.3,	58,	0.37	,13:35:01	,27-Dec-2013
408,	1.5,	78.3,	58,	0.38	,13:36:01	,27-Dec-2013
409,	1.4,	78.3,	58,	0.36	,13:37:01	,27-Dec-2013
410,	1.8,	78.3,	58,	0.38	,13:38:01	,27-Dec-2013
411,	1.3,	78.2,	58,	0.36	,13:39:01	,27-Dec-2013
412,	0.7,	78.2,	58,	0.35	,13:40:01	,27-Dec-2013
413,	1.2,	78.2,	58,	0.36	,13:41:01	,27-Dec-2013
414,	1.3,	78.2,	58,	0.36	,13:42:01	,27-Dec-2013
415,	1.5,	78.2,	58,	0.36	,13:43:01	,27-Dec-2013
416,	1.3,	78.2,	58,	0.36	,13:44:01	,27-Dec-2013
417,	1.5,	78.2,	58,	0.37	,13:45:01	,27-Dec-2013
418,	1.4,	78.2,	58,	0.36	,13:46:01	,27-Dec-2013
419,	1.5,	78.2,	57,	0.37	,13:47:01	,27-Dec-2013
420,	1.4,	78.2,	57,	0.36	,13:48:01	,27-Dec-2013
421,	1.6,	78.2,	57,	0.36	,13:49:01	,27-Dec-2013
422,	1.4,	78.2,	57,	0.36	,13:50:01	,27-Dec-2013
423,	1.5,	78.1,	57,	0.36	,13:51:01	,27-Dec-2013
424,	1.6,	78.2,	57,	0.36	,13:52:01	,27-Dec-2013
425,	1.5,	78.1,	57,	0.36	,13:53:01	,27-Dec-2013
426,	1.4,	78.1,	57,	0.36	,13:54:01	,27-Dec-2013
427,	1.3,	78.1,	57,	0.36	,13:55:01	,27-Dec-2013
428,	1.5,	78.1,	57,	0.37	,13:56:01	,27-Dec-2013
429,	1.3,	78.1,	57,	0.36	,13:57:01	,27-Dec-2013
430,	1.3,	78.1,	57,	0.37	,13:58:01	,27-Dec-2013
431,	1.3,	78.1,	57,	0.36	,13:59:01	,27-Dec-2013
432,	1.5,	78.1,	57,	0.36	,14:00:01	,27-Dec-2013
433,	1.3,	78.1,	57,	0.36	,14:01:01	,27-Dec-2013
434,	1.3,	78.1,	57,	0.36	,14:02:01	,27-Dec-2013
435,	1.5,	78.1,	57,	0.36	,14:03:01	,27-Dec-2013
436,	1.3,	78.1,	57,	0.36	,14:04:01	,27-Dec-2013
437,	1.2,	78.0,	57,	0.36	,14:05:01	,27-Dec-2013
438,	1.2,	78.0,	57,	0.36	,14:06:01	,27-Dec-2013
439,	1.1,	78.0,	57,	0.36	,14:07:01	,27-Dec-2013
440,	1.4,	78.0,	57,	0.36	,14:08:01	,27-Dec-2013
441,	1.2,	78.0,	57,	0.36	,14:09:01	,27-Dec-2013
442,	1.1,	78.0,	57,	0.37	,14:10:01	,27-Dec-2013
443,	1.2,	78.0,	57,	0.38	,14:11:01	,27-Dec-2013
444,	1.2,	78.0,	57,	0.38	,14:12:01	,27-Dec-2013
445,	1.2,	78.0,	57,	0.37	,14:13:01	,27-Dec-2013
446,	1.2,	78.0,	57,	0.37	,14:14:01	,27-Dec-2013
447,	1.2,	78.0,	57,	0.37	,14:15:01	,27-Dec-2013
448,	1.1,	78.0,	57,	0.37	,14:16:01	,27-Dec-2013
449,	1.2,	78.0,	57,	0.37	,14:17:01	,27-Dec-2013
450,	1.3,	77.9,	57,	0.38	,14:18:01	,27-Dec-2013
451,	1.3,	77.9,	57,	0.38	,14:19:01	,27-Dec-2013
452,	1.3,	77.9,	57,	0.38	,14:20:01	,27-Dec-2013
453,	1.2,	77.9,	57,	0.38	,14:21:01	,27-Dec-2013
454,	1.4,	77.8,	57,	0.37	,14:22:01	,27-Dec-2013
455,	1.2,	77.9,	56,	0.36	,14:23:01	,27-Dec-2013
456,	1.1,	77.9,	57,	0.36	,14:24:01	,27-Dec-2013

457,	1.4,	77.8,	57,	0.37	,14:25:01	,27-Dec-2013
458,	1.0,	77.8,	57,	0.36	,14:26:01	,27-Dec-2013
459,	1.5,	77.8,	56,	0.37	,14:27:01	,27-Dec-2013
460,	1.2,	77.8,	56,	0.37	,14:28:01	,27-Dec-2013
461,	1.1,	77.8,	56,	0.37	,14:29:01	,27-Dec-2013
462,	1.2,	77.8,	56,	0.37	,14:30:01	,27-Dec-2013
463,	1.4,	77.7,	56,	0.38	,14:31:01	,27-Dec-2013
464,	1.3,	77.7,	56,	0.38	,14:32:01	,27-Dec-2013
465,	1.3,	77.6,	56,	0.38	,14:33:01	,27-Dec-2013
466,	1.2,	77.6,	56,	0.37	,14:34:01	,27-Dec-2013
467,	1.2,	77.6,	56,	0.37	,14:35:01	,27-Dec-2013
468,	1.2,	77.6,	56,	0.37	,14:36:01	,27-Dec-2013
469,	1.1,	77.5,	56,	0.37	,14:37:01	,27-Dec-2013
470,	1.5,	77.5,	56,	0.38	,14:38:01	,27-Dec-2013
471,	1.2,	77.5,	56,	0.37	,14:39:01	,27-Dec-2013
472,	1.4,	77.5,	56,	0.37	,14:40:01	,27-Dec-2013
473,	1.2,	77.5,	56,	0.37	,14:41:01	,27-Dec-2013
474,	1.4,	77.5,	56,	0.37	,14:42:01	,27-Dec-2013
475,	1.2,	77.5,	56,	0.37	,14:43:01	,27-Dec-2013
476,	1.3,	77.5,	56,	0.37	,14:44:01	,27-Dec-2013
477,	1.3,	77.4,	56,	0.37	,14:45:01	,27-Dec-2013
478,	1.3,	77.4,	56,	0.37	,14:46:01	,27-Dec-2013
479,	1.1,	77.4,	56,	0.36	,14:47:01	,27-Dec-2013
480,	1.3,	77.5,	56,	0.38	,14:48:01	,27-Dec-2013
481,	1.3,	77.4,	56,	0.38	,14:49:01	,27-Dec-2013
482,	1.4,	77.4,	56,	0.39	,14:50:01	,27-Dec-2013
483,	1.2,	77.4,	56,	0.38	,14:51:01	,27-Dec-2013
484,	1.5,	77.3,	56,	0.38	,14:52:01	,27-Dec-2013
485,	1.2,	77.4,	56,	0.37	,14:53:01	,27-Dec-2013
486,	1.4,	77.3,	56,	0.37	,14:54:01	,27-Dec-2013
487,	1.7,	77.3,	56,	0.38	,14:55:01	,27-Dec-2013
488,	1.4,	77.3,	56,	0.37	,14:56:01	,27-Dec-2013
489,	1.3,	77.3,	56,	0.37	,14:57:01	,27-Dec-2013
490,	1.1,	77.3,	56,	0.36	,14:58:01	,27-Dec-2013
491,	1.6,	77.3,	56,	0.37	,14:59:01	,27-Dec-2013
492,	1.4,	77.3,	56,	0.36	,15:00:01	,27-Dec-2013
493,	1.3,	77.3,	56,	0.36	,15:01:01	,27-Dec-2013
494,	1.4,	77.2,	57,	0.36	,15:02:01	,27-Dec-2013
495,	1.0,	77.2,	56,	0.36	,15:03:01	,27-Dec-2013
496,	1.2,	77.2,	56,	0.36	,15:04:01	,27-Dec-2013
497,	1.3,	77.2,	56,	0.37	,15:05:01	,27-Dec-2013
498,	1.4,	77.2,	56,	0.35	,15:06:01	,27-Dec-2013
499,	1.7,	77.1,	56,	0.35	,15:07:01	,27-Dec-2013
500,	1.5,	77.1,	56,	0.37	,15:08:01	,27-Dec-2013
501,	1.2,	77.1,	57,	0.37	,15:09:01	,27-Dec-2013
502,	1.0,	77.1,	57,	0.36	,15:10:01	,27-Dec-2013
503,	1.3,	77.1,	56,	0.37	,15:11:01	,27-Dec-2013
504,	1.4,	77.1,	57,	0.37	,15:12:01	,27-Dec-2013
505,	1.3,	77.1,	57,	0.37	,15:13:01	,27-Dec-2013
506,	1.3,	77.0,	56,	0.37	,15:14:01	,27-Dec-2013
507,	0.9,	77.1,	56,	0.36	,15:15:01	,27-Dec-2013
508,	1.3,	77.1,	56,	0.37	,15:16:01	,27-Dec-2013
509,	1.5,	77.0,	56,	0.37	,15:17:01	,27-Dec-2013
510,	1.5,	77.0,	56,	0.37	,15:18:01	,27-Dec-2013
511,	1.3,	77.0,	57,	0.37	,15:19:01	,27-Dec-2013
512,	1.3,	77.0,	56,	0.37	,15:20:01	,27-Dec-2013
513,	1.4,	76.9,	57,	0.38	,15:21:01	,27-Dec-2013
514,	1.5,	76.9,	57,	0.38	,15:22:01	,27-Dec-2013
515,	1.2,	76.9,	56,	0.37	,15:23:01	,27-Dec-2013
516,	1.4,	76.9,	56,	0.38	,15:24:01	,27-Dec-2013
517,	1.4,	76.9,	56,	0.38	,15:25:01	,27-Dec-2013
518,	1.6,	76.9,	56,	0.38	,15:26:01	,27-Dec-2013
519,	1.4,	76.9,	56,	0.37	,15:27:01	,27-Dec-2013
520,	1.5,	76.9,	56,	0.35	,15:28:01	,27-Dec-2013

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521,	1.4,	76.9,	56,	0.35	,15:29:01	,27-Dec-2013
522,	1.5,	76.8,	56,	0.35	,15:30:01	,27-Dec-2013
523,	1.4,	76.8,	56,	0.35	,15:31:01	,27-Dec-2013
524,	1.2,	76.8,	56,	0.35	,15:32:01	,27-Dec-2013
525,	1.6,	76.8,	56,	0.36	,15:33:01	,27-Dec-2013
526,	1.2,	76.8,	56,	0.35	,15:34:01	,27-Dec-2013
527,	1.3,	76.8,	56,	0.35	,15:35:01	,27-Dec-2013
528,	1.6,	76.7,	56,	0.37	,15:36:01	,27-Dec-2013
529,	1.5,	76.7,	56,	0.37	,15:37:01	,27-Dec-2013
530,	1.3,	76.6,	56,	0.39	,15:38:01	,27-Dec-2013
531,	1.3,	76.7,	56,	0.41	,15:39:01	,27-Dec-2013
532,	1.4,	76.6,	56,	0.41	,15:40:01	,27-Dec-2013
533,	1.2,	76.6,	56,	0.40	,15:41:01	,27-Dec-2013
534,	1.5,	76.6,	56,	0.40	,15:42:01	,27-Dec-2013
535,	1.1,	76.6,	56,	0.38	,15:43:01	,27-Dec-2013
536,	1.3,	76.6,	56,	0.39	,15:44:01	,27-Dec-2013
537,	1.5,	76.6,	56,	0.40	,15:45:01	,27-Dec-2013
538,	1.3,	76.6,	56,	0.39	,15:46:01	,27-Dec-2013
539,	1.2,	76.6,	56,	0.40	,15:47:01	,27-Dec-2013
540,	1.4,	76.6,	57,	0.40	,15:48:01	,27-Dec-2013
541,	1.4,	76.6,	56,	0.40	,15:49:01	,27-Dec-2013
542,	1.6,	76.6,	56,	0.41	,15:50:01	,27-Dec-2013
543,	1.6,	76.5,	56,	0.43	,15:51:01	,27-Dec-2013
544,	1.5,	76.6,	56,	0.42	,15:52:01	,27-Dec-2013
545,	1.4,	76.6,	56,	0.42	,15:53:01	,27-Dec-2013
546,	1.4,	76.5,	56,	0.42	,15:54:01	,27-Dec-2013
547,	1.6,	76.6,	56,	0.45	,15:55:01	,27-Dec-2013
548,	1.4,	76.6,	56,	0.42	,15:56:01	,27-Dec-2013
549,	1.1,	76.6,	56,	0.38	,15:57:01	,27-Dec-2013
550,	1.3,	76.6,	57,	0.38	,15:58:01	,27-Dec-2013
551,	1.2,	76.5,	57,	0.38	,15:59:01	,27-Dec-2013
552,	1.3,	76.6,	57,	0.38	,16:00:01	,27-Dec-2013
553,	1.4,	76.5,	57,	0.40	,16:01:01	,27-Dec-2013
554,	1.5,	76.6,	57,	0.40	,16:02:01	,27-Dec-2013
555,	1.1,	76.5,	56,	0.38	,16:03:01	,27-Dec-2013
556,	1.4,	76.5,	57,	0.40	,16:04:01	,27-Dec-2013
557,	1.5,	76.5,	57,	0.41	,16:05:01	,27-Dec-2013
558,	1.4,	76.5,	57,	0.39	,16:06:01	,27-Dec-2013
559,	1.4,	76.5,	57,	0.39	,16:07:01	,27-Dec-2013
560,	1.3,	76.5,	57,	0.39	,16:08:01	,27-Dec-2013

DataRAM 4 SN#:D786 Dev#:0 Tag#:22 Start:27-Dec-2013 07:21:01 Interval: 00:01:00
(MASS)ug/m3
Temp (F)
Humidity (RH%)
Diameter (nm)
5
4
3
2
1
0
12/27/13 08:00:00
12/27/13 09:00:00
12/27/13 10:00:00
12/27/13 11:00:00
12/27/13 12:00:00
12/27/13 13:00:00
12/27/13 14:00:00
12/27/13 15:00:00
12/27/13 16:00:00

DataRAM 4 SN#D786 Dev# 0 Tag# 22 Start 27-Dec-2013 07:21:01 Interval 00:01:00
(MASS)ug/m3
Temp (F)
Humidity (RH%)
Diameter (nm)
85
80
75
70
65
60
55
50
45
40
35
30
25
20
15
10
5
0
12/27/13 08:00:00
12/27/13 09:00:00
12/27/13 10:00:00
12/27/13 11:00:00
12/27/13 12:00:00
12/27/13 13:00:00
12/27/13 14:00:00
12/27/13 15:00:00
12/27/13 16:00:00

DataRAM4 SN# D788 Dev#:0 Tag#:22 start: 27-Dec-2013 07:21:01 Interval:00:01:00
(MASS)ug/m3
Temp (F)
Humidity (RH%)
Diameter (nm)
60
55
50
45
40
35
30
25
20
15
10
5
0
12/27/13 08:00:00
12/27/13 09:00:00
12/27/13 10:00:00
12/27/13 11:00:00
12/27/13 12:00:00
12/27/13 13:00:00
12/27/13 14:00:00
12/27/13 15:00:00
12/27/13 16:00:00

(MASS)ug/m3
Temp (F)
Humidity (RH%)
Diameter (nm)
DataRAM 4 SN# D786 Dev# 0 Tag# 22 start 27-Dec-2013 07:21:01 interval 00:01:00
500
450
400
350
300
250
200
150
100
50
0
12/27/13 08:00:00
12/27/13 09:00:00
12/27/13 10:00:00
12/27/13 11:00:00
12/27/13 12:00:00
12/27/13 13:00:00
12/27/13 14:00:00
12/27/13 15:00:00
12/27/13 16:00:00

ALTOL
Environmental Services, Inc.

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December 30, 2013

Mr. Benjamin Cintrón
Project Manager
Homeca Recycling

RE: AIR PARTICULATE MONITORING REPORT AT PUERTO RICO OLEFINES, PEÑUELAS, PR.

Dear Mr. Cintrón:

Altol Environmental Services, Inc., submits for your review the results obtained during the air particulates monitoring. These were performed following Altol operational procedures.

Altol's technician installed and removed the Data Ram-4 COM equipment from the Towers located at Puerto Rico Olefines in Peñuelas, PR. The equipment collected data every minute for approximately a eight (8) hour period. Also, during the installation and removal of the equipment the wind direction, wind velocity, weather and other conditions were documented as supplementary information. The wind velocity was measured using the Kestrell 4000 equipment.

Appendix 1 presents **Table 1** which summarizes the results of information collected at the towers. The data collected during this period indicated levels of particulate material (PM_{10}) that do not exceed the regulated limits of the United States Environmental Protection Agency (USEPA) of 150 $\mu g/m^3$ (40 CFR part 50) (**Appendix 2**). The information collected from each tower is presented in graphics in terms of mass and dates (**Appendix 3**).

The following Appendices present the tables and graphics results for mass ($\mu g/m^3$), temperature (^oF), relative humidity (RH) and diameter (nm), obtained from each Data Ram-4 COM equipment:

- **Appendix 4**, correspond to Tower # 1, December 19, 2013.
- **Appendix 5**, correspond to Tower # 2, December 19, 2013.

If you need any further information contact us at your earliest convenience at (787)-835-4242 or (787) 430-6141.

Statement of Authenticity,
Altol Environmental Services, Inc.

Certify that the results are complete and accurate

Cordially,

Carlos E. Ocasio Feliciano
Environmental Higiene

Parque Industrial Sabanetas ▫ Edificio M-1380 ▫ Ponce, PR 00715
Tel. (787) 835-4242 ▫ Fax (787) 835-2004

APPENDIX 1
FUGITIVE DUSTS SAMPLING AND TEST RESULTS

TABLE 1. FUGITIVE DUSTS SAMPLING AND ENVIRONMENTAL CONDITIONS

Air Monitoring Date	Air Monitoring Tower	Latitude and Longitude	Equipment Data Ram-4 COM						Equipment Kestrell Model 4000		Field Observation				Sampling Personnel
			Equipment Model/ID#	Start Time	Finish Time	Avg Mass ($\mu g/m^3$)	Regulatory Limits ($\mu g/m3$)	Avg Diameter (nm)	Wind Velocity Start TIme (mph)	Wind Velocity Finish Time (mph)	Weather Condition Start Time	Weather Condition Finish Time	Wind Direction Start Time	Wind Direction Finish Time	
12/19/2013 12/19/2013	1		DR4/D787	7:36	16:00	1.91	150	0.44	3.6	3.8	Sunny	Cloudy	North West	North	JS
12/19/2013 12/19/2013	2		DR4/D786	8:17	16:00	2.36	150	0.37	4.3	6.0	Sunny	Cloudy	North West	North	JS

Standard Limit = 150 $\mu g/m^3$

Leyend

N/A - Not Aplicable
RV - Robert Velazquez
JRR- Jaime Rivera Rivera
JR- Juan Rivera
JC- Jose Cruz
NH Nehemias Hernandez
JS- José Santos

Towers Location:

Tower #1: PR-503
Tower #2: Disposal Area 3A
Tower #3: Access Road #1
Tower #4: Laboratory Area

ALTOL
Environmental Services, Inc.

Statement of Authenticity,
Certify that the results are complete and accurate

Cordially,

Carlos E. Ocasio Feliciano
Environmental Higiene

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APPENDIX 2
USEPA REGULATION PARAMETER

National Ambient Air Quality Standards (NAAQS)

The Clean Air Act, which was last amended in 1990, requires EPA to set National Ambient Air Quality Standards (40 CFR part 50) for pollutants considered harmful to public health and the environment. The Clean Air Act established two types of national air quality standards. *Primary standards* set limits to protect public health, including the health of "sensitive" populations such as asthmatics, children, and the elderly. *Secondary standards* set limits to protect public welfare, including protection against decreased visibility, damage to animals, crops, vegetation, and buildings.

The EPA Office of Air Quality Planning and Standards (OAQPS) has set National Ambient Air Quality Standards for six principal pollutants, which are called "criteria" pollutants. They are listed below. Units of measure for the standards are parts per million (ppm) by volume, milligrams per cubic meter of air (mg/m^3), and micrograms per cubic meter of air (µg/m^3).

National Ambient Air Quality Standards

	Primary Standards		Secondary Standards	
Pollutant	Level	Averaging Time	Level	Averaging Time
Carbon Monoxide	9 ppm (10 mg/m^3)	8-hour [1]	None	
	35 ppm (40 mg/m^3)	1-hour [1]		
Lead	0.15 µg/m^3 [2]	Rolling 3-Month Average	Same as Primary	
	1.5 µg/m^3	Quarterly Average	Same as Primary	
Nitrogen Dioxide	0.053 ppm (100 µg/m^3)	Annual (Arithmetic Mean)	Same as Primary	
Particulate Matter (PM_{10})	150 µg/m^3	24-hour [3]	Same as Primary	
Particulate Matter ($PM_{2.5}$)	15.0 µg/m^3	Annual [4] (Arithmetic Mean)	Same as Primary	
	35 µg/m^3	24-hour [5]	Same as Primary	
Ozone	0.075 ppm (2008 std)	8-hour [6]	Same as Primary	
	0.08 ppm (1997 std)	8-hour [7]	Same as Primary	
	0.12 ppm	1-hour [8] (Applies only in limited areas)	Same as Primary	
Sulfur Dioxide	0.03 ppm	Annual (Arithmetic Mean)	0.5 ppm (1300 µg/m^3)	3-hour [1]
	0.14 ppm	24-hour [1]		

[1] Not to be exceeded more than once per year.

[2] Final rule signed October 15, 2008.

[3] Not to be exceeded more than once per year on average over 3 years.

[4] To attain this standard, the 3-year average of the weighted annual mean PM2.5 concentrations from single or multiple community-oriented monitors must not exceed 15.0 µg/m3.

[5] To attain this standard, the 3-year average of the 98th percentile of 24-hour concentrations at each population-oriented monitor within an area must not exceed 35 µg/m3 (effective December 17, 2006).

[6] To attain this standard, the 3-year average of the fourth-highest daily maximum 8-hour average ozone concentrations measured at each monitor within an area over each year must not exceed 0.075 ppm. (effective May 27, 2008)

[7] (a) To attain this standard, the 3-year average of the fourth-highest daily maximum 8-hour average ozone concentrations measured at each monitor within an area over each year must not exceed 0.08 ppm.

(b) The 1997 standard—and the implementation rules for that standard—will remain in place for implementation purposes as EPA undertakes rulemaking to address the transition from the 1997 ozone standard to the 2008 ozone standard.

[8] (a) The standard is attained when the expected number of days per calendar year with maximum hourly average concentrations above 0.12 ppm is ≤ 1.

(b) As of June 15, 2005 EPA revoked the 1-hour ozone standard in all areas except the 8-hour ozone nonattainment Early Action Compact (EAC) Areas.

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APPENDIX 3
GRAPHICS OF MASS vs DATE

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Air Particulate at Tower #2
Regulatory Level (150 µg/m3)
Results Level
µg/m³
160
140
120
100
80
60
40
20
0
2.36
December/19/2013
Dates

APPENDIX 4
TOWER #1 AIR PARTICULATE MONITORING

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"Serial no. ", "D787 "
"Device no. ", HOMECA RECYCLING,PR OLEFINS TORRE 1 NORTE
"Tag Number ", 10
"Start Time ", 07:35:17
"Start Date ", 19-Dec-2013
"Log Period ", 00:01:00
"Number ", 505
"CalFactor ", 1.000000
"Unit ", 0
"Unit Name ", "(MASS)ug/m3"
"SIZE_CORRECT", "ENABLED"
"TEMPUNITS ", F
"Max MASS ", 34.650340
"Max MASS @ ", 5 ,01:06:17 ,19-Dec-2013
"Avg MASS ", 1.911468
"Max Diam ", 3.522349
"Max Diam @ ", 5 ,07:34:17 ,19-Dec-2013
"Avg Diam ", 0.436818
"ALARM ", "DISABLED"
"ALARM_LEVEL ", 0.0
"AUTO_ZERO ", "DISABLED"
"AZ INTERVAL ", 1
"Errors ", 0000

record	"(MASS)ug/m3"	Temp,	RHumidity,	Diameter	
1,	2.0,	73.8,	56,	0.30	,07:36:17 ,19-Dec-2013
2,	1.6,	73.9,	59,	0.32	,07:37:17 ,19-Dec-2013
3,	1.5,	73.9,	61,	0.33	,07:38:17 ,19-Dec-2013
4,	1.8,	74.0,	63,	0.32	,07:39:17 ,19-Dec-2013
5,	1.9,	74.1,	64,	0.32	,07:40:17 ,19-Dec-2013
6,	2.0,	74.2,	65,	0.32	,07:41:17 ,19-Dec-2013
7,	2.5,	74.3,	65,	0.32	,07:42:17 ,19-Dec-2013
8,	1.8,	74.3,	66,	0.39	,07:43:17 ,19-Dec-2013
9,	1.5,	74.4,	66,	0.38	,07:44:17 ,19-Dec-2013
10,	1.2,	74.4,	66,	0.37	,07:45:17 ,19-Dec-2013
11,	1.1,	74.5,	66,	0.37	,07:46:17 ,19-Dec-2013
12,	1.1,	74.5,	67,	0.37	,07:47:17 ,19-Dec-2013
13,	1.0,	74.6,	67,	0.36	,07:48:17 ,19-Dec-2013
14,	0.9,	74.6,	67,	0.36	,07:49:17 ,19-Dec-2013
15,	0.7,	74.7,	67,	0.36	,07:50:17 ,19-Dec-2013
16,	0.7,	74.8,	68,	0.36	,07:51:17 ,19-Dec-2013
17,	0.7,	74.8,	68,	0.35	,07:52:17 ,19-Dec-2013
18,	0.9,	74.9,	68,	0.36	,07:53:17 ,19-Dec-2013
19,	0.7,	75.0,	68,	0.35	,07:54:17 ,19-Dec-2013
20,	0.8,	75.1,	68,	0.36	,07:55:17 ,19-Dec-2013
21,	0.8,	75.1,	68,	0.36	,07:56:17 ,19-Dec-2013
22,	0.7,	75.1,	68,	0.35	,07:57:17 ,19-Dec-2013
23,	0.7,	75.2,	68,	0.36	,07:58:17 ,19-Dec-2013
24,	0.7,	75.3,	68,	0.35	,07:59:17 ,19-Dec-2013
25,	0.6,	75.3,	68,	0.35	,08:00:17 ,19-Dec-2013
26,	0.9,	75.3,	68,	0.36	,08:01:17 ,19-Dec-2013
27,	2.0,	75.3,	68,	0.37	,08:02:17 ,19-Dec-2013
28,	1.2,	75.4,	68,	0.38	,08:03:17 ,19-Dec-2013
29,	1.0,	75.5,	68,	0.37	,08:04:17 ,19-Dec-2013
30,	0.9,	75.5,	68,	0.36	,08:05:17 ,19-Dec-2013
31,	0.7,	75.5,	68,	0.35	,08:06:17 ,19-Dec-2013
32,	0.9,	75.6,	68,	0.35	,08:07:17 ,19-Dec-2013
33,	2.4,	75.6,	68,	0.62	,08:08:17 ,19-Dec-2013
34,	2.4,	75.6,	68,	0.64	,08:09:17 ,19-Dec-2013
35,	5.3,	75.6,	68,	1.41	,08:10:17 ,19-Dec-2013
36,	16.6,	75.7,	68,	2.83	,08:11:17 ,19-Dec-2013
37,	6.0,	75.7,	68,	1.56	,08:12:17 ,19-Dec-2013
38,	1.4,	75.8,	68,	0.53	,08:13:17 ,19-Dec-2013
39,	2.3,	75.8,	68,	0.67	,08:14:17 ,19-Dec-2013
40,	1.3,	75.9,	68,	0.47	,08:15:17 ,19-Dec-2013

41,	1.5,	76.0,	68,	0.54	,08:16:17	,19-Dec-2013
42,	1.2,	76.0,	68,	0.56	,08:17:17	,19-Dec-2013
43,	1.9,	76.0,	68,	0.62	,08:18:17	,19-Dec-2013
44,	1.0,	76.0,	68,	0.45	,08:19:17	,19-Dec-2013
45,	0.8,	76.1,	68,	0.41	,08:20:17	,19-Dec-2013
46,	1.2,	76.2,	68,	0.47	,08:21:17	,19-Dec-2013
47,	1.0,	76.2,	68,	0.44	,08:22:17	,19-Dec-2013
48,	0.9,	76.2,	68,	0.43	,08:23:17	,19-Dec-2013
49,	0.7,	76.2,	69,	0.41	,08:24:17	,19-Dec-2013
50,	1.0,	76.3,	69,	0.41	,08:25:17	,19-Dec-2013
51,	1.2,	76.4,	69,	0.43	,08:26:17	,19-Dec-2013
52,	1.2,	76.4,	69,	0.49	,08:27:17	,19-Dec-2013
53,	1.2,	76.4,	69,	0.51	,08:28:17	,19-Dec-2013
54,	1.2,	76.4,	69,	0.48	,08:29:17	,19-Dec-2013
55,	1.1,	76.5,	69,	0.44	,08:30:17	,19-Dec-2013
56,	0.8,	76.5,	69,	0.41	,08:31:17	,19-Dec-2013
57,	0.9,	76.5,	69,	0.42	,08:32:17	,19-Dec-2013
58,	1.1,	76.6,	69,	0.45	,08:33:17	,19-Dec-2013
59,	0.8,	76.6,	69,	0.41	,08:34:17	,19-Dec-2013
60,	1.5,	76.6,	69,	0.47	,08:35:17	,19-Dec-2013
61,	1.3,	76.7,	69,	0.43	,08:36:17	,19-Dec-2013
62,	1.0,	76.7,	69,	0.40	,08:37:17	,19-Dec-2013
63,	0.9,	76.8,	69,	0.39	,08:38:17	,19-Dec-2013
64,	0.6,	76.9,	69,	0.37	,08:39:17	,19-Dec-2013
65,	0.7,	76.9,	69,	0.37	,08:40:17	,19-Dec-2013
66,	0.9,	76.9,	69,	0.43	,08:41:17	,19-Dec-2013
67,	1.4,	77.0,	69,	0.50	,08:42:17	,19-Dec-2013
68,	0.9,	77.0,	69,	0.39	,08:43:17	,19-Dec-2013
69,	0.9,	77.1,	69,	0.40	,08:44:17	,19-Dec-2013
70,	1.1,	77.1,	69,	0.46	,08:45:17	,19-Dec-2013
71,	0.9,	77.1,	69,	0.40	,08:46:17	,19-Dec-2013
72,	1.2,	77.1,	69,	0.42	,08:47:17	,19-Dec-2013
73,	1.2,	77.2,	69,	0.42	,08:48:17	,19-Dec-2013
74,	1.1,	77.3,	69,	0.43	,08:49:17	,19-Dec-2013
75,	2.0,	77.3,	69,	0.70	,08:50:17	,19-Dec-2013
76,	1.3,	77.3,	69,	0.49	,08:51:17	,19-Dec-2013
77,	0.9,	77.3,	69,	0.41	,08:52:17	,19-Dec-2013
78,	1.0,	77.4,	69,	0.41	,08:53:17	,19-Dec-2013
79,	1.3,	77.4,	69,	0.45	,08:54:17	,19-Dec-2013
80,	1.6,	77.4,	69,	0.44	,08:55:17	,19-Dec-2013
81,	2.5,	77.5,	69,	0.47	,08:56:17	,19-Dec-2013
82,	1.9,	77.5,	69,	0.47	,08:57:17	,19-Dec-2013
83,	1.4,	77.6,	70,	0.42	,08:58:17	,19-Dec-2013
84,	1.5,	77.6,	70,	0.40	,08:59:17	,19-Dec-2013
85,	1.5,	77.6,	70,	0.39	,09:00:17	,19-Dec-2013
86,	1.7,	77.7,	71,	0.39	,09:01:17	,19-Dec-2013
87,	1.4,	77.8,	71,	0.38	,09:02:17	,19-Dec-2013
88,	1.4,	77.8,	71,	0.39	,09:03:17	,19-Dec-2013
89,	1.4,	77.8,	71,	0.39	,09:04:17	,19-Dec-2013
90,	1.5,	77.8,	71,	0.39	,09:05:17	,19-Dec-2013
91,	1.5,	77.8,	71,	0.37	,09:06:17	,19-Dec-2013
92,	1.4,	77.9,	71,	0.35	,09:07:17	,19-Dec-2013
93,	1.5,	77.9,	72,	0.35	,09:08:17	,19-Dec-2013
94,	1.3,	77.9,	72,	0.37	,09:09:17	,19-Dec-2013
95,	1.0,	77.9,	71,	0.35	,09:10:17	,19-Dec-2013
96,	1.3,	78.0,	72,	0.36	,09:11:17	,19-Dec-2013
97,	1.1,	78.0,	72,	0.36	,09:12:17	,19-Dec-2013
98,	1.0,	78.0,	72,	0.35	,09:13:17	,19-Dec-2013
99,	1.0,	78.0,	72,	0.35	,09:14:17	,19-Dec-2013
100,	1.2,	78.0,	72,	0.36	,09:15:17	,19-Dec-2013
101,	1.0,	78.0,	72,	0.36	,09:16:17	,19-Dec-2013
102,	1.3,	78.0,	72,	0.36	,09:17:17	,19-Dec-2013
103,	1.1,	78.0,	72,	0.35	,09:18:17	,19-Dec-2013
104,	1.1,	78.0,	72,	0.35	,09:19:17	,19-Dec-2013

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105,	1.1,	78.0,	72,	0.35	,09:20:17	,19-Dec-2013
106,	0.9,	78.1,	72,	0.35	,09:21:17	,19-Dec-2013
107,	1.1,	78.1,	72,	0.35	,09:22:17	,19-Dec-2013
108,	1.0,	78.1,	72,	0.35	,09:23:17	,19-Dec-2013
109,	1.0,	78.1,	72,	0.35	,09:24:17	,19-Dec-2013
110,	1.0,	78.2,	72,	0.35	,09:25:17	,19-Dec-2013
111,	0.9,	78.2,	72,	0.35	,09:26:17	,19-Dec-2013
112,	1.0,	78.2,	72,	0.35	,09:27:17	,19-Dec-2013
113,	1.1,	78.2,	72,	0.35	,09:28:17	,19-Dec-2013
114,	1.0,	78.2,	72,	0.35	,09:29:17	,19-Dec-2013
115,	0.9,	78.2,	72,	0.35	,09:30:17	,19-Dec-2013
116,	0.9,	78.2,	72,	0.35	,09:31:17	,19-Dec-2013
117,	0.9,	78.2,	72,	0.35	,09:32:17	,19-Dec-2013
118,	0.7,	78.3,	72,	0.35	,09:33:17	,19-Dec-2013
119,	0.8,	78.3,	72,	0.37	,09:34:17	,19-Dec-2013
120,	0.8,	78.3,	72,	0.38	,09:35:17	,19-Dec-2013
121,	0.8,	78.3,	72,	0.39	,09:36:17	,19-Dec-2013
122,	0.7,	78.4,	72,	0.37	,09:37:17	,19-Dec-2013
123,	0.6,	78.4,	72,	0.36	,09:38:17	,19-Dec-2013
124,	0.7,	78.4,	72,	0.37	,09:39:17	,19-Dec-2013
125,	1.0,	78.4,	72,	0.39	,09:40:17	,19-Dec-2013
126,	0.8,	78.4,	72,	0.38	,09:41:17	,19-Dec-2013
127,	0.8,	78.4,	71,	0.38	,09:42:17	,19-Dec-2013
128,	0.7,	78.4,	71,	0.37	,09:43:17	,19-Dec-2013
129,	0.8,	78.4,	71,	0.37	,09:44:17	,19-Dec-2013
130,	0.9,	78.5,	71,	0.40	,09:45:17	,19-Dec-2013
131,	0.5,	78.5,	71,	0.37	,09:46:17	,19-Dec-2013
132,	0.5,	78.5,	71,	0.37	,09:47:17	,19-Dec-2013
133,	0.3,	78.5,	71,	0.36	,09:48:17	,19-Dec-2013
134,	0.6,	78.5,	71,	0.38	,09:49:17	,19-Dec-2013
135,	0.5,	78.5,	71,	0.38	,09:50:17	,19-Dec-2013
136,	0.3,	78.6,	71,	0.36	,09:51:17	,19-Dec-2013
137,	0.6,	78.6,	71,	0.38	,09:52:17	,19-Dec-2013
138,	0.6,	78.6,	71,	0.38	,09:53:17	,19-Dec-2013
139,	0.4,	78.6,	71,	0.37	,09:54:17	,19-Dec-2013
140,	0.5,	78.6,	71,	0.37	,09:55:17	,19-Dec-2013
141,	0.9,	78.6,	71,	0.41	,09:56:17	,19-Dec-2013
142,	2.8,	78.6,	71,	0.82	,09:57:17	,19-Dec-2013
143,	0.6,	78.6,	71,	0.40	,09:58:17	,19-Dec-2013
144,	0.4,	78.6,	71,	0.38	,09:59:17	,19-Dec-2013
145,	0.9,	78.6,	72,	0.45	,10:00:17	,19-Dec-2013
146,	0.6,	78.7,	72,	0.41	,10:01:17	,19-Dec-2013
147,	1.0,	78.7,	72,	0.48	,10:02:17	,19-Dec-2013
148,	0.9,	78.7,	71,	0.45	,10:03:17	,19-Dec-2013
149,	2.1,	78.7,	71,	0.70	,10:04:17	,19-Dec-2013
150,	0.7,	78.7,	71,	0.45	,10:05:17	,19-Dec-2013
151,	0.8,	78.7,	71,	0.48	,10:06:17	,19-Dec-2013
152,	0.7,	78.8,	71,	0.46	,10:07:17	,19-Dec-2013
153,	0.4,	78.7,	71,	0.40	,10:08:17	,19-Dec-2013
154,	0.7,	78.7,	71,	0.40	,10:09:17	,19-Dec-2013
155,	0.3,	78.7,	71,	0.36	,10:10:17	,19-Dec-2013
156,	0.4,	78.8,	71,	0.37	,10:11:17	,19-Dec-2013
157,	0.6,	78.8,	71,	0.39	,10:12:17	,19-Dec-2013
158,	0.6,	78.8,	71,	0.39	,10:13:17	,19-Dec-2013
159,	0.4,	78.8,	71,	0.37	,10:14:17	,19-Dec-2013
160,	0.5,	78.9,	71,	0.38	,10:15:17	,19-Dec-2013
161,	0.5,	78.9,	71,	0.38	,10:16:17	,19-Dec-2013
162,	0.5,	78.9,	71,	0.38	,10:17:17	,19-Dec-2013
163,	0.6,	78.9,	71,	0.38	,10:18:17	,19-Dec-2013
164,	0.4,	78.9,	71,	0.37	,10:19:17	,19-Dec-2013
165,	0.4,	78.9,	71,	0.37	,10:20:17	,19-Dec-2013
166,	0.4,	78.9,	71,	0.37	,10:21:17	,19-Dec-2013
167,	0.4,	78.9,	71,	0.37	,10:22:17	,19-Dec-2013
168,	0.3,	78.9,	71,	0.36	,10:23:17	,19-Dec-2013

169,	0.5,	79.0,	71,	0.38	,10:24:17	,19-Dec-2013
170,	0.7,	79.0,	71,	0.40	,10:25:17	,19-Dec-2013
171,	0.7,	79.0,	70,	0.40	,10:26:17	,19-Dec-2013
172,	0.5,	79.0,	70,	0.37	,10:27:17	,19-Dec-2013
173,	0.6,	79.1,	70,	0.39	,10:28:17	,19-Dec-2013
174,	0.4,	79.1,	70,	0.36	,10:29:17	,19-Dec-2013
175,	0.3,	79.1,	70,	0.35	,10:30:17	,19-Dec-2013
176,	0.6,	79.1,	70,	0.39	,10:31:17	,19-Dec-2013
177,	0.4,	79.1,	70,	0.37	,10:32:17	,19-Dec-2013
178,	0.4,	79.1,	70,	0.37	,10:33:17	,19-Dec-2013
179,	0.4,	79.1,	70,	0.37	,10:34:17	,19-Dec-2013
180,	0.4,	79.1,	70,	0.37	,10:35:17	,19-Dec-2013
181,	0.2,	79.2,	70,	0.35	,10:36:17	,19-Dec-2013
182,	0.2,	79.2,	70,	0.35	,10:37:17	,19-Dec-2013
183,	0.4,	79.2,	70,	0.37	,10:38:17	,19-Dec-2013
184,	0.3,	79.2,	70,	0.36	,10:39:17	,19-Dec-2013
185,	0.4,	79.3,	70,	0.37	,10:40:17	,19-Dec-2013
186,	0.1,	79.3,	70,	0.34	,10:41:17	,19-Dec-2013
187,	0.3,	79.3,	70,	0.36	,10:42:17	,19-Dec-2013
188,	0.3,	79.3,	70,	0.36	,10:43:17	,19-Dec-2013
189,	0.2,	79.3,	70,	0.35	,10:44:17	,19-Dec-2013
190,	0.5,	79.3,	70,	0.38	,10:45:17	,19-Dec-2013
191,	0.2,	79.3,	70,	0.35	,10:46:17	,19-Dec-2013
192,	0.5,	79.4,	70,	0.37	,10:47:17	,19-Dec-2013
193,	0.4,	79.4,	70,	0.37	,10:48:17	,19-Dec-2013
194,	0.5,	79.4,	70,	0.38	,10:49:17	,19-Dec-2013
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196,	0.3,	79.4,	70,	0.36	,10:51:17	,19-Dec-2013
197,	0.4,	79.5,	70,	0.37	,10:52:17	,19-Dec-2013
198,	0.3,	79.6,	70,	0.36	,10:53:17	,19-Dec-2013
199,	0.3,	79.6,	70,	0.36	,10:54:17	,19-Dec-2013
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203,	0.2,	79.6,	69,	0.35	,10:58:17	,19-Dec-2013
204,	0.3,	79.6,	69,	0.36	,10:59:17	,19-Dec-2013
205,	2.6,	79.7,	69,	0.60	,11:00:17	,19-Dec-2013
206,	0.9,	79.7,	69,	0.49	,11:01:17	,19-Dec-2013
207,	1.4,	79.7,	69,	0.54	,11:02:17	,19-Dec-2013
208,	2.1,	79.7,	69,	0.53	,11:03:17	,19-Dec-2013
209,	1.4,	79.7,	69,	0.43	,11:04:17	,19-Dec-2013
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211,	1.6,	79.7,	70,	0.38	,11:06:17	,19-Dec-2013
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213,	1.3,	79.8,	70,	0.36	,11:08:17	,19-Dec-2013
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217,	1.2,	79.8,	71,	0.36	,11:12:17	,19-Dec-2013
218,	1.3,	79.8,	71,	0.36	,11:13:17	,19-Dec-2013
219,	1.1,	79.7,	71,	0.35	,11:14:17	,19-Dec-2013
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229,	0.8,	79.6,	71,	0.35	,11:24:17	,19-Dec-2013
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233,	1.1,	79.5,	71,	0.36	,11:28:17	,19-Dec-2013
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239,	1.1,	79.4,	71,	0.36	,11:34:17	,19-Dec-2013
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245,	1.0,	79.3,	72,	0.35	,11:40:17	,19-Dec-2013
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253,	1.2,	79.2,	72,	0.35	,11:48:17	,19-Dec-2013
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266,	1.1,	79.1,	72,	0.35	,12:01:17	,19-Dec-2013
267,	1.1,	79.1,	72,	0.34	,12:02:17	,19-Dec-2013
268,	0.9,	79.1,	72,	0.34	,12:03:17	,19-Dec-2013
269,	1.1,	79.1,	72,	0.34	,12:04:17	,19-Dec-2013
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271,	0.8,	79.1,	73,	0.34	,12:06:17	,19-Dec-2013
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278,	1.4,	79.1,	73,	0.34	,12:13:17	,19-Dec-2013
279,	1.5,	79.1,	73,	0.33	,12:14:17	,19-Dec-2013
280,	1.4,	79.1,	73,	0.33	,12:15:17	,19-Dec-2013
281,	1.5,	79.1,	73,	0.33	,12:16:17	,19-Dec-2013
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283,	1.4,	79.1,	73,	0.33	,12:18:17	,19-Dec-2013
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285,	1.5,	79.1,	73,	0.33	,12:20:17	,19-Dec-2013
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305,	1.3,	79.2,	73,	0.33	,12:40:17	,19-Dec-2013
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349,	1.1,	79.9,	71,	0.34	,13:24:17	,19-Dec-2013
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363,	1.4,	80.2,	70,	0.40	,13:38:17	,19-Dec-2013
364,	1.6,	80.3,	69,	0.40	,13:39:17	,19-Dec-2013
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377,	1.7,	80.7,	67,	0.36	,13:52:17	,19-Dec-2013
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379,	1.7,	80.7,	67,	0.37	,13:54:17	,19-Dec-2013
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381,	1.4,	80.8,	67,	0.36	,13:56:17	,19-Dec-2013
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383,	1.7,	80.8,	66,	0.43	,13:58:17	,19-Dec-2013
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395,	2.3,	81.2,	66,	0.52	,14:10:17	,19-Dec-2013
396,	2.3,	81.2,	66,	0.46	,14:11:17	,19-Dec-2013
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398,	2.3,	81.3,	67,	0.50	,14:13:17	,19-Dec-2013
399,	2.3,	81.4,	66,	0.50	,14:14:17	,19-Dec-2013
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402,	2.1,	81.4,	66,	0.44	,14:17:17	,19-Dec-2013
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404,	2.2,	81.5,	66,	0.49	,14:19:17	,19-Dec-2013
405,	2.3,	81.5,	66,	0.51	,14:20:17	,19-Dec-2013
406,	2.4,	81.5,	66,	0.57	,14:21:17	,19-Dec-2013
407,	2.1,	81.6,	66,	0.55	,14:22:17	,19-Dec-2013
408,	2.2,	81.6,	66,	0.46	,14:23:17	,19-Dec-2013
409,	2.5,	81.6,	66,	0.40	,14:24:17	,19-Dec-2013
410,	2.3,	81.6,	66,	0.44	,14:25:17	,19-Dec-2013
411,	2.4,	81.6,	66,	0.46	,14:26:17	,19-Dec-2013
412,	2.3,	81.7,	66,	0.51	,14:27:17	,19-Dec-2013
413,	2.2,	81.7,	66,	0.61	,14:28:17	,19-Dec-2013
414,	2.1,	81.7,	66,	0.44	,14:29:17	,19-Dec-2013
415,	2.2,	81.8,	66,	0.41	,14:30:17	,19-Dec-2013
416,	2.3,	81.8,	66,	0.40	,14:31:17	,19-Dec-2013
417,	2.3,	81.8,	66,	0.41	,14:32:17	,19-Dec-2013
418,	2.1,	81.8,	65,	0.46	,14:33:17	,19-Dec-2013
419,	2.4,	81.8,	65,	0.43	,14:34:17	,19-Dec-2013
420,	2.3,	81.9,	65,	0.49	,14:35:17	,19-Dec-2013
421,	2.2,	81.9,	65,	0.42	,14:36:17	,19-Dec-2013
422,	2.2,	81.9,	65,	0.42	,14:37:17	,19-Dec-2013
423,	1.9,	81.9,	65,	0.43	,14:38:17	,19-Dec-2013
424,	2.2,	82.0,	65,	0.40	,14:39:17	,19-Dec-2013

425,	2.1,	82.0,	65,	0.44	,14:40:17	,19-Dec-2013
426,	2.2,	82.0,	65,	0.43	,14:41:17	,19-Dec-2013
427,	2.1,	82.0,	65,	0.39	,14:42:17	,19-Dec-2013
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431,	1.8,	82.1,	64,	0.44	,14:46:17	,19-Dec-2013
432,	2.3,	82.1,	65,	0.57	,14:47:17	,19-Dec-2013
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437,	2.2,	82.2,	64,	0.49	,14:52:17	,19-Dec-2013
438,	2.1,	82.3,	64,	0.46	,14:53:17	,19-Dec-2013
439,	2.1,	82.3,	64,	0.48	,14:54:17	,19-Dec-2013
440,	2.0,	82.3,	64,	0.39	,14:55:17	,19-Dec-2013
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445,	2.1,	82.4,	64,	0.43	,15:00:17	,19-Dec-2013
446,	1.9,	82.4,	64,	0.47	,15:01:17	,19-Dec-2013
447,	1.8,	82.4,	63,	0.42	,15:02:17	,19-Dec-2013
448,	2.1,	82.5,	64,	0.41	,15:03:17	,19-Dec-2013
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451,	2.3,	82.5,	63,	0.40	,15:06:17	,19-Dec-2013
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456,	2.2,	82.5,	63,	0.50	,15:11:17	,19-Dec-2013
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459,	2.3,	82.6,	63,	0.47	,15:14:17	,19-Dec-2013
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462,	2.4,	82.6,	63,	0.45	,15:17:17	,19-Dec-2013
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467,	2.1,	82.7,	63,	0.40	,15:22:17	,19-Dec-2013
468,	2.0,	82.7,	63,	0.41	,15:23:17	,19-Dec-2013
469,	1.9,	82.7,	63,	0.42	,15:24:17	,19-Dec-2013
470,	1.7,	82.7,	62,	0.43	,15:25:17	,19-Dec-2013
471,	1.7,	82.7,	62,	0.40	,15:26:17	,19-Dec-2013
472,	2.3,	82.7,	62,	0.57	,15:27:17	,19-Dec-2013
473,	1.9,	82.7,	62,	0.49	,15:28:17	,19-Dec-2013
474,	2.0,	82.7,	61,	0.46	,15:29:17	,19-Dec-2013
475,	1.8,	82.7,	61,	0.38	,15:30:17	,19-Dec-2013
476,	1.9,	82.7,	61,	0.41	,15:31:17	,19-Dec-2013
477,	2.0,	82.7,	61,	0.48	,15:32:17	,19-Dec-2013
478,	2.3,	82.7,	61,	0.47	,15:33:17	,19-Dec-2013
479,	1.9,	82.7,	61,	0.38	,15:34:17	,19-Dec-2013
480,	1.8,	82.7,	61,	0.37	,15:35:17	,19-Dec-2013
481,	1.9,	82.7,	61,	0.38	,15:36:17	,19-Dec-2013
482,	1.8,	82.7,	61,	0.40	,15:37:17	,19-Dec-2013
483,	1.7,	82.7,	61,	0.41	,15:38:17	,19-Dec-2013
484,	6.5,	82.7,	60,	1.28	,15:39:17	,19-Dec-2013
485,	4.1,	82.8,	61,	1.05	,15:40:17	,19-Dec-2013
486,	2.2,	82.8,	61,	0.46	,15:41:17	,19-Dec-2013
487,	1.9,	82.8,	60,	0.44	,15:42:17	,19-Dec-2013
488,	2.1,	82.8,	60,	0.43	,15:43:17	,19-Dec-2013

489,	1.7,	82.8,	61,	0.39	,15:44:17	,19-Dec-2013
490,	1.8,	82.8,	60,	0.44	,15:45:17	,19-Dec-2013
491,	1.7,	82.8,	60,	0.44	,15:46:17	,19-Dec-2013
492,	1.8,	82.8,	60,	0.41	,15:47:17	,19-Dec-2013
493,	1.7,	82.8,	60,	0.40	,15:48:17	,19-Dec-2013
494,	1.5,	82.8,	60,	0.39	,15:49:17	,19-Dec-2013
495,	1.7,	82.8,	60,	0.40	,15:50:17	,19-Dec-2013
496,	1.6,	82.8,	60,	0.41	,15:51:17	,19-Dec-2013
497,	1.9,	82.8,	60,	0.49	,15:52:17	,19-Dec-2013
498,	2.2,	82.8,	60,	0.45	,15:53:17	,19-Dec-2013
499,	5.9,	82.8,	60,	1.08	,15:54:17	,19-Dec-2013
500,	33.3,	82.8,	60,	2.99	,15:55:17	,19-Dec-2013
501,	26.9,	82.8,	60,	3.52	,15:56:17	,19-Dec-2013
502,	19.6,	82.8,	60,	2.58	,15:57:17	,19-Dec-2013
503,	34.7,	82.8,	60,	3.09	,15:58:17	,19-Dec-2013
504,	4.8,	82.8,	60,	0.71	,15:59:17	,19-Dec-2013
505,	21.0,	82.8,	60,	2.76	,16:00:17	,19-Dec-2013

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APPENDIX 5
TOWER #2 AIR PARTICULATE MONITORING

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```
"Model Number", "DataRAM 4 ", 106
 Serial no.  ", "D786      "
"Device no.  ", HOMECA RECYCLING,PR OLEFINS TORRE 2 SUR
"Tag Number  ", 21
 Start Time  ", 08:16:42
"Start Date  ", 19-Dec-2013
"Log Period  ", 00:01:00
 Number      ", 532
 CalFactor   ", 1.000000
"Unit        ", 0
"Unit Name   ", "(MASS )ug/m3"
 SIZE_CORRECT", "ENABLED"
"TEMPUNITS   ", F
"Max MASS    ", 260.759400
 Max MASS  @ ",   ,16:11:42   ,19-Dec-2013
 Avg MASS    ", 2.359266
"Max Diam    ", 1.723509
"Max Diam @  ", 4  ,08:15:42  ,19-Dec-2013
 Avg Diam    ", 0.372251
"ALARM       ", "DISABLED"
"ALARM_LEVEL ", 0.0
 AUTO_ZERO   ", "DISABLED"
 AZ INTERVAL ", 1
"Errors      ", 0000
"ecord,"(MASS )ug/m3", Temp, RHumidity, Diameter
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     2,        1.2,  83.4,   51,   0.30  ,08:18:42  ,19-Dec-2013
     3,        1.3,  83.4,   51,   0.29  ,08:19:42  ,19-Dec-2013
     4,        1.3,  83.5,   51,   0.29  ,08:20:42  ,19-Dec-2013
     5,        2.3,  83.5,   52,   0.30  ,08:21:42  ,19-Dec-2013
     6,      195.4,  83.5,   52,   0.29  ,08:22:42  ,19-Dec-2013
     7,       75.8,  83.6,   53,   0.22  ,08:23:42  ,19-Dec-2013
     8,       18.7,  83.6,   53,   0.24  ,08:24:42  ,19-Dec-2013
     9,       73.7,  83.6,   53,   0.23  ,08:25:42  ,19-Dec-2013
    10,      260.8,  83.6,   53,   0.22  ,08:26:42  ,19-Dec-2013
    11,       46.9,  83.6,   53,   0.20  ,08:27:42  ,19-Dec-2013
    12,        3.0,  83.7,   54,   0.30  ,08:28:42  ,19-Dec-2013
    13,        2.1,  83.7,   54,   0.32  ,08:29:42  ,19-Dec-2013
    14,        1.9,  83.7,   54,   0.33  ,08:30:42  ,19-Dec-2013
    15,        1.5,  83.8,   54,   0.33  ,08:31:42  ,19-Dec-2013
    16,        1.6,  83.8,   54,   0.34  ,08:32:42  ,19-Dec-2013
    17,        1.5,  83.8,   55,   0.33  ,08:33:42  ,19-Dec-2013
    18,        1.9,  83.8,   55,   0.32  ,08:34:42  ,19-Dec-2013
    19,        1.4,  83.8,   55,   0.32  ,08:35:42  ,19-Dec-2013
    20,        1.2,  83.9,   55,   0.32  ,08:36:42  ,19-Dec-2013
    21,        1.1,  83.9,   55,   0.32  ,08:37:42  ,19-Dec-2013
    22,        1.4,  83.9,   55,   0.32  ,08:38:42  ,19-Dec-2013
    23,        1.5,  84.0,   55,   0.33  ,08:39:42  ,19-Dec-2013
    24,        1.5,  84.1,   55,   0.36  ,08:40:42  ,19-Dec-2013
    25,        1.9,  84.1,   55,   0.52  ,08:41:42  ,19-Dec-2013
    26,        1.2,  84.1,   55,   0.43  ,08:42:42  ,19-Dec-2013
    27,        1.2,  84.1,   55,   0.41  ,08:43:42  ,19-Dec-2013
    28,        1.0,  84.1,   55,   0.37  ,08:44:42  ,19-Dec-2013
    29,        1.3,  84.1,   55,   0.37  ,08:45:42  ,19-Dec-2013
    30,        1.3,  84.2,   54,   0.41  ,08:46:42  ,19-Dec-2013
    31,        1.9,  84.2,   54,   0.47  ,08:47:42  ,19-Dec-2013
    32,        1.5,  84.2,   55,   0.39  ,08:48:42  ,19-Dec-2013
    33,        1.5,  84.2,   55,   0.37  ,08:49:42  ,19-Dec-2013
    34,        1.8,  84.3,   55,   0.39  ,08:50:42  ,19-Dec-2013
    35,        1.4,  84.3,   55,   0.37  ,08:51:42  ,19-Dec-2013
    36,        1.1,  84.3,   55,   0.37  ,08:52:42  ,19-Dec-2013
    37,        1.3,  84.3,   55,   0.40  ,08:53:42  ,19-Dec-2013
    38,        1.3,  84.3,   55,   0.40  ,08:54:42  ,19-Dec-2013
    39,        1.9,  84.4,   55,   0.52  ,08:55:42  ,19-Dec-2013
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40,	1.5,	84.4,	55,	0.45	,08:56:42	,19-Dec-2013
41,	1.0,	84.5,	55,	0.41	,08:57:42	,19-Dec-2013
42,	1.2,	84.5,	55,	0.43	,08:58:42	,19-Dec-2013
43,	1.1,	84.5,	56,	0.42	,08:59:42	,19-Dec-2013
44,	1.3,	84.5,	56,	0.43	,09:00:42	,19-Dec-2013
45,	1.3,	84.5,	56,	0.41	,09:01:42	,19-Dec-2013
46,	1.4,	84.6,	56,	0.40	,09:02:42	,19-Dec-2013
47,	1.4,	84.6,	56,	0.40	,09:03:42	,19-Dec-2013
48,	1.1,	84.7,	56,	0.37	,09:04:42	,19-Dec-2013
49,	1.7,	84.7,	56,	0.45	,09:05:42	,19-Dec-2013
50,	1.3,	84.7,	56,	0.43	,09:06:42	,19-Dec-2013
51,	0.9,	84.7,	56,	0.38	,09:07:42	,19-Dec-2013
52,	1.8,	84.7,	56,	0.43	,09:08:42	,19-Dec-2013
53,	1.3,	84.8,	56,	0.42	,09:09:42	,19-Dec-2013
54,	1.7,	84.8,	56,	0.47	,09:10:42	,19-Dec-2013
55,	1.3,	84.8,	56,	0.43	,09:11:42	,19-Dec-2013
56,	1.5,	84.9,	56,	0.49	,09:12:42	,19-Dec-2013
57,	1.3,	84.9,	56,	0.44	,09:13:42	,19-Dec-2013
58,	1.2,	84.9,	56,	0.43	,09:14:42	,19-Dec-2013
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62,	1.9,	85.0,	56,	0.51	,09:18:42	,19-Dec-2013
63,	1.6,	85.1,	56,	0.43	,09:19:42	,19-Dec-2013
64,	1.8,	85.1,	56,	0.39	,09:20:42	,19-Dec-2013
65,	1.8,	85.1,	56,	0.39	,09:21:42	,19-Dec-2013
66,	2.0,	85.1,	56,	0.52	,09:22:42	,19-Dec-2013
67,	1.8,	85.1,	56,	0.40	,09:23:42	,19-Dec-2013
68,	1.9,	85.1,	56,	0.38	,09:24:42	,19-Dec-2013
69,	1.4,	85.2,	56,	0.37	,09:25:42	,19-Dec-2013
70,	1.3,	85.2,	57,	0.37	,09:26:42	,19-Dec-2013
71,	1.7,	85.2,	57,	0.37	,09:27:42	,19-Dec-2013
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73,	1.4,	85.2,	57,	0.35	,09:29:42	,19-Dec-2013
74,	1.5,	85.2,	57,	0.37	,09:30:42	,19-Dec-2013
75,	1.3,	85.3,	57,	0.37	,09:31:42	,19-Dec-2013
76,	1.4,	85.3,	57,	0.38	,09:32:42	,19-Dec-2013
77,	1.6,	85.3,	57,	0.39	,09:33:42	,19-Dec-2013
78,	1.5,	85.3,	57,	0.39	,09:34:42	,19-Dec-2013
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82,	1.4,	85.4,	57,	0.35	,09:38:42	,19-Dec-2013
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85,	1.6,	85.5,	57,	0.41	,09:41:42	,19-Dec-2013
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88,	1.5,	85.6,	57,	0.37	,09:44:42	,19-Dec-2013
89,	1.5,	85.6,	57,	0.37	,09:45:42	,19-Dec-2013
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113,	1.0,	86.1,	57,	0.33	,09:52:42	,19-Dec-2013
114,	0.8,	86.1,	57,	0.33	,09:53:42	,19-Dec-2013
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119,	1.2,	86.3,	57,	0.39	,09:58:42	,19-Dec-2013

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124,	1.0,	86.3,	56,	0.39	,10:03:42	,19-Dec-2013
125,	1.4,	86.3,	57,	0.47	,10:04:42	,19-Dec-2013
126,	1.0,	86.3,	56,	0.43	,10:05:42	,19-Dec-2013
127,	1.3,	86.3,	56,	0.44	,10:06:42	,19-Dec-2013
128,	1.1,	86.4,	56,	0.40	,10:07:42	,19-Dec-2013
129,	1.2,	86.4,	56,	0.41	,10:08:42	,19-Dec-2013
130,	0.6,	86.4,	56,	0.36	,10:09:42	,19-Dec-2013
131,	0.8,	86.4,	56,	0.36	,10:10:42	,19-Dec-2013
132,	1.0,	86.4,	56,	0.32	,10:11:42	,19-Dec-2013
133,	0.9,	86.4,	56,	0.32	,10:12:42	,19-Dec-2013
134,	0.8,	86.4,	56,	0.32	,10:13:42	,19-Dec-2013
135,	1.1,	86.5,	56,	0.32	,10:14:42	,19-Dec-2013
136,	0.6,	86.5,	56,	0.33	,10:15:42	,19-Dec-2013
137,	0.4,	86.5,	55,	0.33	,10:16:42	,19-Dec-2013
138,	0.6,	86.5,	55,	0.33	,10:17:42	,19-Dec-2013
139,	0.7,	86.5,	56,	0.33	,10:18:42	,19-Dec-2013
140,	0.8,	86.5,	55,	0.33	,10:19:42	,19-Dec-2013
141,	0.7,	86.5,	55,	0.33	,10:20:42	,19-Dec-2013
142,	1.3,	86.5,	55,	0.32	,10:21:42	,19-Dec-2013
143,	1.1,	86.5,	55,	0.32	,10:22:42	,19-Dec-2013
144,	1.1,	86.5,	55,	0.32	,10:23:42	,19-Dec-2013
145,	0.6,	86.6,	55,	0.32	,10:24:42	,19-Dec-2013
146,	0.7,	86.6,	55,	0.33	,10:25:42	,19-Dec-2013
147,	1.0,	86.6,	55,	0.33	,10:26:42	,19-Dec-2013
148,	1.8,	86.6,	55,	0.40	,10:27:42	,19-Dec-2013
149,	1.1,	86.6,	55,	0.43	,10:28:42	,19-Dec-2013
150,	1.0,	86.6,	55,	0.42	,10:29:42	,19-Dec-2013
151,	0.6,	86.7,	55,	0.39	,10:30:42	,19-Dec-2013
152,	1.1,	86.7,	56,	0.47	,10:31:42	,19-Dec-2013
153,	1.3,	86.8,	56,	0.60	,10:32:42	,19-Dec-2013
154,	0.7,	86.8,	55,	0.43	,10:33:42	,19-Dec-2013
155,	1.0,	86.8,	55,	0.46	,10:34:42	,19-Dec-2013
156,	1.5,	86.8,	55,	0.44	,10:35:42	,19-Dec-2013
157,	1.3,	86.8,	55,	0.39	,10:36:42	,19-Dec-2013
158,	1.8,	86.8,	55,	0.40	,10:37:42	,19-Dec-2013
159,	1.6,	86.8,	55,	0.39	,10:38:42	,19-Dec-2013
160,	1.9,	86.8,	55,	0.39	,10:39:42	,19-Dec-2013
161,	2.2,	86.9,	55,	0.38	,10:40:42	,19-Dec-2013
162,	1.9,	86.9,	55,	0.35	,10:41:42	,19-Dec-2013
163,	1.7,	86.9,	55,	0.35	,10:42:42	,19-Dec-2013
164,	2.0,	86.9,	55,	0.35	,10:43:42	,19-Dec-2013
165,	1.3,	86.9,	55,	0.35	,10:44:42	,19-Dec-2013
166,	0.9,	86.9,	55,	0.34	,10:45:42	,19-Dec-2013
167,	1.2,	87.0,	55,	0.34	,10:46:42	,19-Dec-2013
168,	0.8,	87.0,	55,	0.34	,10:47:42	,19-Dec-2013
169,	1.2,	87.0,	55,	0.34	,10:48:42	,19-Dec-2013
170,	1.2,	87.0,	55,	0.34	,10:49:42	,19-Dec-2013
171,	1.1,	87.0,	55,	0.34	,10:50:42	,19-Dec-2013
172,	0.9,	87.0,	55,	0.34	,10:51:42	,19-Dec-2013
173,	0.8,	87.0,	55,	0.34	,10:52:42	,19-Dec-2013
174,	0.9,	87.0,	55,	0.34	,10:53:42	,19-Dec-2013
175,	0.6,	87.0,	55,	0.34	,10:54:42	,19-Dec-2013
176,	1.1,	87.0,	55,	0.33	,10:55:42	,19-Dec-2013
177,	0.3,	87.0,	55,	0.33	,10:56:42	,19-Dec-2013
178,	0.5,	87.0,	55,	0.33	,10:57:42	,19-Dec-2013
179,	0.4,	87.0,	55,	0.33	,10:58:42	,19-Dec-2013
180,	0.8,	87.1,	55,	0.33	,10:59:42	,19-Dec-2013
181,	0.8,	87.0,	55,	0.32	,11:00:42	,19-Dec-2013
182,	0.4,	87.1,	55,	0.33	,11:01:42	,19-Dec-2013
183,	0.4,	87.1,	56,	0.33	,11:02:42	,19-Dec-2013

184,	0.6,	87.1,	56,	0.33	,11:03:42	,19-Dec-2013
185,	0.7,	87.1,	56,	0.34	,11:04:42	,19-Dec-2013
186,	0.4,	87.1,	56,	0.34	,11:05:42	,19-Dec-2013
187,	0.3,	87.0,	56,	0.34	,11:06:42	,19-Dec-2013
188,	0.3,	87.1,	56,	0.34	,11:07:42	,19-Dec-2013
189,	0.4,	87.1,	56,	0.34	,11:08:42	,19-Dec-2013
190,	0.5,	87.0,	56,	0.34	,11:09:42	,19-Dec-2013
191,	0.4,	87.0,	56,	0.34	,11:10:42	,19-Dec-2013
192,	0.1,	87.0,	56,	0.33	,11:11:42	,19-Dec-2013
193,	0.1,	87.0,	56,	0.33	,11:12:42	,19-Dec-2013
194,	0.3,	87.0,	56,	0.34	,11:13:42	,19-Dec-2013
195,	0.8,	87.0,	56,	0.34	,11:14:42	,19-Dec-2013
196,	0.4,	87.0,	56,	0.34	,11:15:42	,19-Dec-2013
197,	0.3,	87.0,	56,	0.33	,11:16:42	,19-Dec-2013
198,	0.5,	86.9,	56,	0.34	,11:17:42	,19-Dec-2013
199,	0.6,	86.9,	56,	0.34	,11:18:42	,19-Dec-2013
200,	0.2,	86.9,	56,	0.33	,11:19:42	,19-Dec-2013
201,	0.1,	86.9,	56,	0.33	,11:20:42	,19-Dec-2013
202,	0.1,	86.9,	56,	0.33	,11:21:42	,19-Dec-2013
203,	0.8,	86.8,	56,	0.34	,11:22:42	,19-Dec-2013
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205,	0.0,	86.8,	56,	0.33	,11:24:42	,19-Dec-2013
206,	0.0,	86.8,	56,	0.33	,11:25:42	,19-Dec-2013
207,	0.3,	86.8,	56,	0.34	,11:26:42	,19-Dec-2013
208,	0.1,	86.8,	56,	0.33	,11:27:42	,19-Dec-2013
209,	0.2,	86.8,	56,	0.33	,11:28:42	,19-Dec-2013
210,	2.6,	86.8,	56,	0.44	,11:29:42	,19-Dec-2013
211,	0.4,	86.8,	56,	0.36	,11:30:42	,19-Dec-2013
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215,	0.2,	86.7,	56,	0.35	,11:34:42	,19-Dec-2013
216,	0.5,	86.7,	56,	0.36	,11:35:42	,19-Dec-2013
217,	0.1,	86.7,	56,	0.34	,11:36:42	,19-Dec-2013
218,	0.0,	86.7,	56,	0.33	,11:37:42	,19-Dec-2013
219,	0.3,	86.7,	56,	0.35	,11:38:42	,19-Dec-2013
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221,	0.2,	86.6,	56,	0.34	,11:40:42	,19-Dec-2013
222,	0.4,	86.7,	56,	0.36	,11:41:42	,19-Dec-2013
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227,	0.4,	86.6,	56,	0.36	,11:46:42	,19-Dec-2013
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233,	1.9,	86.6,	55,	0.52	,11:52:42	,19-Dec-2013
234,	1.2,	86.5,	55,	0.51	,11:53:42	,19-Dec-2013
235,	0.6,	86.5,	55,	0.39	,11:54:42	,19-Dec-2013
236,	0.9,	86.5,	55,	0.42	,11:55:42	,19-Dec-2013
237,	0.6,	86.5,	55,	0.38	,11:56:42	,19-Dec-2013
238,	0.5,	86.5,	55,	0.38	,11:57:42	,19-Dec-2013
239,	0.7,	86.5,	55,	0.39	,11:58:42	,19-Dec-2013
240,	0.9,	86.5,	55,	0.42	,11:59:42	,19-Dec-2013
241,	0.5,	86.5,	55,	0.37	,12:00:42	,19-Dec-2013
242,	0.7,	86.5,	55,	0.38	,12:01:42	,19-Dec-2013
243,	0.7,	86.5,	55,	0.40	,12:02:42	,19-Dec-2013
244,	0.8,	86.5,	55,	0.34	,12:03:42	,19-Dec-2013
245,	0.9,	86.5,	55,	0.34	,12:04:42	,19-Dec-2013
246,	1.4,	86.5,	55,	0.37	,12:05:42	,19-Dec-2013
247,	1.1,	86.5,	55,	0.37	,12:06:42	,19-Dec-2013

248,	0.4,	86.5,	55,	0.35	,12:07:42	,19-Dec-2013
249,	0.3,	86.5,	55,	0.34	,12:08:42	,19-Dec-2013
250,	0.2,	86.5,	55,	0.34	,12:09:42	,19-Dec-2013
251,	0.1,	86.5,	55,	0.34	,12:10:42	,19-Dec-2013
252,	0.2,	86.5,	55,	0.34	,12:11:42	,19-Dec-2013
253,	0.1,	86.5,	55,	0.34	,12:12:42	,19-Dec-2013
254,	0.0,	86.4,	55,	0.33	,12:13:42	,19-Dec-2013
255,	0.2,	86.5,	55,	0.34	,12:14:42	,19-Dec-2013
256,	0.1,	86.5,	55,	0.34	,12:15:42	,19-Dec-2013
257,	0.5,	86.4,	55,	0.35	,12:16:42	,19-Dec-2013
258,	0.6,	86.5,	55,	0.35	,12:17:42	,19-Dec-2013
259,	0.3,	86.5,	55,	0.34	,12:18:42	,19-Dec-2013
260,	0.6,	86.5,	55,	0.35	,12:19:42	,19-Dec-2013
261,	0.3,	86.5,	55,	0.34	,12:20:42	,19-Dec-2013
262,	0.4,	86.5,	55,	0.34	,12:21:42	,19-Dec-2013
263,	0.5,	86.4,	55,	0.35	,12:22:42	,19-Dec-2013
264,	23.0,	86.4,	55,	1.13	,12:23:42	,19-Dec-2013
265,	7.7,	86.5,	55,	0.78	,12:24:42	,19-Dec-2013
266,	5.3,	86.4,	55,	0.79	,12:25:42	,19-Dec-2013
267,	4.7,	86.5,	55,	0.86	,12:26:42	,19-Dec-2013
268,	2.1,	86.5,	55,	0.58	,12:27:42	,19-Dec-2013
269,	1.3,	86.4,	55,	0.38	,12:28:42	,19-Dec-2013
270,	0.3,	86.5,	55,	0.34	,12:29:42	,19-Dec-2013
271,	0.4,	86.4,	55,	0.34	,12:30:42	,19-Dec-2013
272,	0.1,	86.4,	55,	0.34	,12:31:42	,19-Dec-2013
273,	0.4,	86.5,	55,	0.34	,12:32:42	,19-Dec-2013
274,	0.4,	86.5,	55,	0.34	,12:33:42	,19-Dec-2013
275,	0.3,	86.5,	55,	0.34	,12:34:42	,19-Dec-2013
276,	0.4,	86.5,	55,	0.34	,12:35:42	,19-Dec-2013
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279,	0.1,	86.5,	55,	0.34	,12:38:42	,19-Dec-2013
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281,	0.4,	86.5,	55,	0.34	,12:40:42	,19-Dec-2013
282,	0.6,	86.5,	55,	0.35	,12:41:42	,19-Dec-2013
283,	0.8,	86.5,	55,	0.35	,12:42:42	,19-Dec-2013
284,	0.7,	86.5,	55,	0.35	,12:43:42	,19-Dec-2013
285,	1.1,	86.5,	55,	0.38	,12:44:42	,19-Dec-2013
286,	0.8,	86.5,	55,	0.39	,12:45:42	,19-Dec-2013
287,	0.6,	86.5,	55,	0.37	,12:46:42	,19-Dec-2013
288,	0.9,	86.5,	55,	0.38	,12:47:42	,19-Dec-2013
289,	1.1,	86.5,	55,	0.38	,12:48:42	,19-Dec-2013
290,	0.4,	86.5,	55,	0.35	,12:49:42	,19-Dec-2013
291,	0.6,	86.5,	55,	0.36	,12:50:42	,19-Dec-2013
292,	0.6,	86.5,	55,	0.36	,12:51:42	,19-Dec-2013
293,	0.7,	86.5,	55,	0.36	,12:52:42	,19-Dec-2013
294,	0.4,	86.5,	55,	0.35	,12:53:42	,19-Dec-2013
295,	0.6,	86.5,	55,	0.35	,12:54:42	,19-Dec-2013
296,	0.2,	86.5,	55,	0.34	,12:55:42	,19-Dec-2013
297,	0.5,	86.5,	55,	0.35	,12:56:42	,19-Dec-2013
298,	0.4,	86.5,	55,	0.35	,12:57:42	,19-Dec-2013
299,	0.3,	86.4,	55,	0.34	,12:58:42	,19-Dec-2013
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304,	0.5,	86.4,	54,	0.35	,13:03:42	,19-Dec-2013
305,	0.3,	86.4,	55,	0.34	,13:04:42	,19-Dec-2013
306,	0.8,	86.4,	55,	0.36	,13:05:42	,19-Dec-2013
307,	0.9,	86.4,	55,	0.36	,13:06:42	,19-Dec-2013
308,	0.5,	86.4,	54,	0.35	,13:07:42	,19-Dec-2013
309,	0.7,	86.4,	55,	0.35	,13:08:42	,19-Dec-2013
310,	0.6,	86.4,	54,	0.35	,13:09:42	,19-Dec-2013
311,	0.2,	86.4,	54,	0.34	,13:10:42	,19-Dec-2013

312,	0.1,	86.4,	54,	0.34	,13:11:42	,19-Dec-2013
313,	0.1,	86.4,	54,	0.34	,13:12:42	,19-Dec-2013
314,	0.2,	86.4,	54,	0.34	,13:13:42	,19-Dec-2013
315,	0.7,	86.4,	54,	0.35	,13:14:42	,19-Dec-2013
316,	0.6,	86.4,	54,	0.35	,13:15:42	,19-Dec-2013
317,	0.7,	86.4,	54,	0.35	,13:16:42	,19-Dec-2013
318,	0.9,	86.4,	54,	0.36	,13:17:42	,19-Dec-2013
319,	0.6,	86.4,	54,	0.35	,13:18:42	,19-Dec-2013
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321,	1.2,	86.4,	54,	0.46	,13:20:42	,19-Dec-2013
322,	1.5,	86.4,	54,	0.42	,13:21:42	,19-Dec-2013
323,	1.6,	86.4,	54,	0.40	,13:22:42	,19-Dec-2013
324,	1.2,	86.4,	54,	0.40	,13:23:42	,19-Dec-2013
325,	2.1,	86.4,	54,	0.52	,13:24:42	,19-Dec-2013
326,	1.2,	86.4,	54,	0.39	,13:25:42	,19-Dec-2013
327,	2.4,	86.4,	54,	0.38	,13:26:42	,19-Dec-2013
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347,	1.5,	86.4,	54,	0.38	,13:46:42	,19-Dec-2013
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351,	3.6,	86.3,	54,	0.32	,13:50:42	,19-Dec-2013
352,	5.9,	86.3,	55,	0.30	,13:51:42	,19-Dec-2013
353,	4.3,	86.4,	55,	0.30	,13:52:42	,19-Dec-2013
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355,	2.2,	86.4,	55,	0.31	,13:54:42	,19-Dec-2013
356,	1.8,	86.4,	55,	0.31	,13:55:42	,19-Dec-2013
357,	1.4,	86.4,	55,	0.32	,13:56:42	,19-Dec-2013
358,	1.1,	86.4,	55,	0.32	,13:57:42	,19-Dec-2013
359,	1.1,	86.4,	55,	0.32	,13:58:42	,19-Dec-2013
360,	0.8,	86.4,	55,	0.32	,13:59:42	,19-Dec-2013
361,	1.3,	86.3,	55,	0.32	,14:00:42	,19-Dec-2013
362,	1.2,	86.4,	55,	0.32	,14:01:42	,19-Dec-2013
363,	1.2,	86.4,	55,	0.32	,14:02:42	,19-Dec-2013
364,	0.9,	86.4,	55,	0.32	,14:03:42	,19-Dec-2013
365,	1.1,	86.3,	55,	0.32	,14:04:42	,19-Dec-2013
366,	1.1,	86.3,	55,	0.32	,14:05:42	,19-Dec-2013
367,	0.8,	86.3,	55,	0.32	,14:06:42	,19-Dec-2013
368,	0.9,	86.3,	55,	0.32	,14:07:42	,19-Dec-2013
369,	1.0,	86.3,	55,	0.32	,14:08:42	,19-Dec-2013
370,	0.8,	86.3,	55,	0.32	,14:09:42	,19-Dec-2013
371,	0.9,	86.3,	55,	0.32	,14:10:42	,19-Dec-2013
372,	0.9,	86.3,	55,	0.32	,14:11:42	,19-Dec-2013
373,	0.9,	86.3,	55,	0.32	,14:12:42	,19-Dec-2013
374,	1.0,	86.3,	55,	0.32	,14:13:42	,19-Dec-2013
375,	0.9,	86.3,	55,	0.32	,14:14:42	,19-Dec-2013

376,	1.0,	86.3,	56,	0.32	,14:15:42	,19-Dec-2013
377,	1.2,	86.3,	56,	0.32	,14:16:42	,19-Dec-2013
378,	0.8,	86.3,	56,	0.32	,14:17:42	,19-Dec-2013
379,	0.8,	86.3,	56,	0.32	,14:18:42	,19-Dec-2013
380,	0.7,	86.3,	56,	0.33	,14:19:42	,19-Dec-2013
381,	0.9,	86.2,	56,	0.32	,14:20:42	,19-Dec-2013
382,	0.6,	86.2,	56,	0.33	,14:21:42	,19-Dec-2013
383,	1.0,	86.2,	56,	0.32	,14:22:42	,19-Dec-2013
384,	0.7,	86.2,	56,	0.32	,14:23:42	,19-Dec-2013
385,	1.0,	86.2,	56,	0.34	,14:24:42	,19-Dec-2013
386,	0.9,	86.2,	56,	0.35	,14:25:42	,19-Dec-2013
387,	1.1,	86.2,	56,	0.36	,14:26:42	,19-Dec-2013
388,	0.5,	86.2,	56,	0.34	,14:27:42	,19-Dec-2013
389,	0.9,	86.1,	56,	0.35	,14:28:42	,19-Dec-2013
390,	0.7,	86.1,	56,	0.35	,14:29:42	,19-Dec-2013
391,	0.8,	86.2,	56,	0.35	,14:30:42	,19-Dec-2013
392,	0.5,	86.2,	56,	0.34	,14:31:42	,19-Dec-2013
393,	0.8,	86.1,	56,	0.35	,14:32:42	,19-Dec-2013
394,	0.5,	86.1,	56,	0.34	,14:33:42	,19-Dec-2013
395,	0.4,	86.1,	56,	0.34	,14:34:42	,19-Dec-2013
396,	0.6,	86.2,	56,	0.34	,14:35:42	,19-Dec-2013
397,	0.7,	86.1,	56,	0.35	,14:36:42	,19-Dec-2013
398,	0.7,	86.2,	56,	0.34	,14:37:42	,19-Dec-2013
399,	0.5,	86.1,	56,	0.34	,14:38:42	,19-Dec-2013
400,	0.8,	86.1,	56,	0.35	,14:39:42	,19-Dec-2013
401,	0.9,	86.1,	56,	0.35	,14:40:42	,19-Dec-2013
402,	1.1,	86.1,	56,	0.35	,14:41:42	,19-Dec-2013
403,	0.8,	86.1,	56,	0.35	,14:42:42	,19-Dec-2013
404,	1.0,	86.1,	56,	0.35	,14:43:42	,19-Dec-2013
405,	1.0,	86.2,	56,	0.35	,14:44:42	,19-Dec-2013
406,	1.2,	86.1,	56,	0.34	,14:45:42	,19-Dec-2013
407,	1.3,	86.1,	56,	0.33	,14:46:42	,19-Dec-2013
408,	1.8,	86.2,	56,	0.33	,14:47:42	,19-Dec-2013
409,	2.1,	86.1,	56,	0.33	,14:48:42	,19-Dec-2013
410,	2.1,	86.2,	56,	0.33	,14:49:42	,19-Dec-2013
411,	1.6,	86.2,	56,	0.33	,14:50:42	,19-Dec-2013
412,	2.7,	86.2,	56,	0.31	,14:51:42	,19-Dec-2013
413,	2.1,	86.2,	56,	0.33	,14:52:42	,19-Dec-2013
414,	2.2,	86.2,	56,	0.33	,14:53:42	,19-Dec-2013
415,	2.0,	86.2,	56,	0.35	,14:54:42	,19-Dec-2013
416,	1.1,	86.2,	56,	0.34	,14:55:42	,19-Dec-2013
417,	1.4,	86.2,	56,	0.34	,14:56:42	,19-Dec-2013
418,	1.4,	86.3,	56,	0.34	,14:57:42	,19-Dec-2013
419,	1.4,	86.2,	56,	0.34	,14:58:42	,19-Dec-2013
420,	1.4,	86.3,	56,	0.34	,14:59:42	,19-Dec-2013
421,	1.3,	86.3,	56,	0.34	,15:00:42	,19-Dec-2013
422,	0.8,	86.3,	56,	0.34	,15:01:42	,19-Dec-2013
423,	0.7,	86.3,	55,	0.34	,15:02:42	,19-Dec-2013
424,	1.0,	86.3,	55,	0.34	,15:03:42	,19-Dec-2013
425,	0.6,	86.2,	55,	0.34	,15:04:42	,19-Dec-2013
426,	0.4,	86.3,	55,	0.33	,15:05:42	,19-Dec-2013
427,	0.2,	86.3,	55,	0.33	,15:06:42	,19-Dec-2013
428,	0.3,	86.3,	55,	0.33	,15:07:42	,19-Dec-2013
429,	0.4,	86.3,	55,	0.33	,15:08:42	,19-Dec-2013
430,	0.3,	86.3,	55,	0.33	,15:09:42	,19-Dec-2013
431,	0.3,	86.3,	55,	0.33	,15:10:42	,19-Dec-2013
432,	0.5,	86.3,	55,	0.34	,15:11:42	,19-Dec-2013
433,	0.2,	86.3,	55,	0.33	,15:12:42	,19-Dec-2013
434,	0.6,	86.3,	55,	0.34	,15:13:42	,19-Dec-2013
435,	0.6,	86.3,	55,	0.34	,15:14:42	,19-Dec-2013
436,	0.2,	86.2,	54,	0.33	,15:15:42	,19-Dec-2013
437,	0.7,	86.2,	54,	0.34	,15:16:42	,19-Dec-2013
438,	0.1,	86.3,	54,	0.33	,15:17:42	,19-Dec-2013
439,	0.5,	86.2,	54,	0.33	,15:18:42	,19-Dec-2013

440,	0.5,	86.3,	54,	0.33	,15:19:42	,19-Dec-2013
441,	0.3,	86.3,	54,	0.33	,15:20:42	,19-Dec-2013
442,	0.6,	86.3,	54,	0.34	,15:21:42	,19-Dec-2013
443,	0.3,	86.2,	54,	0.33	,15:22:42	,19-Dec-2013
444,	0.7,	86.2,	54,	0.34	,15:23:42	,19-Dec-2013
445,	0.4,	86.2,	54,	0.33	,15:24:42	,19-Dec-2013
446,	0.4,	86.2,	54,	0.33	,15:25:42	,19-Dec-2013
447,	1.7,	86.2,	54,	0.36	,15:26:42	,19-Dec-2013
448,	8.4,	86.2,	54,	1.72	,15:27:42	,19-Dec-2013
449,	3.1,	86.2,	54,	0.87	,15:28:42	,19-Dec-2013
450,	2.3,	86.2,	54,	0.60	,15:29:42	,19-Dec-2013
451,	3.0,	86.2,	54,	0.65	,15:30:42	,19-Dec-2013
452,	1.6,	86.2,	54,	0.52	,15:31:42	,19-Dec-2013
453,	1.7,	86.2,	54,	0.43	,15:32:42	,19-Dec-2013
454,	1.2,	86.2,	54,	0.43	,15:33:42	,19-Dec-2013
455,	1.2,	86.2,	54,	0.45	,15:34:42	,19-Dec-2013
456,	0.4,	86.2,	54,	0.36	,15:35:42	,19-Dec-2013
457,	0.4,	86.1,	54,	0.37	,15:36:42	,19-Dec-2013
458,	0.7,	86.2,	54,	0.38	,15:37:42	,19-Dec-2013
459,	0.4,	86.2,	54,	0.36	,15:38:42	,19-Dec-2013
460,	0.3,	86.2,	54,	0.35	,15:39:42	,19-Dec-2013
461,	0.9,	86.2,	54,	0.41	,15:40:42	,19-Dec-2013
462,	1.0,	86.2,	54,	0.41	,15:41:42	,19-Dec-2013
463,	1.2,	86.2,	54,	0.38	,15:42:42	,19-Dec-2013
464,	1.4,	86.2,	54,	0.36	,15:43:42	,19-Dec-2013
465,	0.7,	86.2,	54,	0.35	,15:44:42	,19-Dec-2013
466,	0.8,	86.2,	54,	0.35	,15:45:42	,19-Dec-2013
467,	0.6,	86.1,	54,	0.35	,15:46:42	,19-Dec-2013
468,	0.6,	86.1,	54,	0.35	,15:47:42	,19-Dec-2013
469,	0.4,	86.1,	54,	0.34	,15:48:42	,19-Dec-2013
470,	0.4,	86.1,	54,	0.34	,15:49:42	,19-Dec-2013
471,	0.7,	86.1,	54,	0.35	,15:50:42	,19-Dec-2013
472,	0.4,	86.1,	54,	0.34	,15:51:42	,19-Dec-2013
473,	0.7,	86.1,	54,	0.35	,15:52:42	,19-Dec-2013
474,	0.9,	86.1,	54,	0.35	,15:53:42	,19-Dec-2013
475,	0.7,	86.1,	54,	0.35	,15:54:42	,19-Dec-2013
476,	0.7,	86.1,	54,	0.35	,15:55:42	,19-Dec-2013
477,	0.6,	86.1,	54,	0.34	,15:56:42	,19-Dec-2013
478,	0.4,	86.1,	54,	0.34	,15:57:42	,19-Dec-2013
479,	0.4,	86.0,	54,	0.34	,15:58:42	,19-Dec-2013
480,	0.7,	86.1,	54,	0.35	,15:59:42	,19-Dec-2013
481,	0.5,	86.1,	54,	0.34	,16:00:42	,19-Dec-2013

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DataRAM 4 SN# D786 Dev# 0 Tag# 21 start 19-Dec-2013 08:16:42 interval 00:01:00
(MASS)ug/m3
Temp (F)
Humidity (RH%)
Diameter (nm)
85
80
75
70
65
60
55
50
45
40
35
30
25
20
15
10
5
0
12/19/13 09:00:00
12/19/13 10:00:00
12/19/13 11:00:00
12/19/13 12:00:00
12/19/13 13:00:00
12/19/13 14:00:00
12/19/13 15:00:00
12/19/13 16:00:00
12/19/13 17:00:00

DataRAM 4 SN# D786 Dev# 0 Tag# 21 Start: 19-Dec-2013 08:16:42 Interval: 00:01:00
(MASS)ug/m3
Temp (F)
Humidity (RH%)
Diameter (nm)
0
5
10
15
20
25
30
35
40
45
50
55
12/19/13 09:00:00
12/19/13 10:00:00
12/19/13 11:00:00
12/19/13 12:00:00
12/19/13 13:00:00
12/19/13 14:00:00
12/19/13 15:00:00
12/19/13 16:00:00
12/19/13 17:00:00

DataRAM 4 SN# D786 Dev# 0 Tag# 21 Start: 19-Dec-2013 08:16:42 Interval: 00:01:00
(MASS)ug/m3
Temp (F)
Humidity (RH%)
Diameter (nm)
1,700
1,600
1,500
1,400
1,300
1,200
1,100
1,000
900
800
700
600
500
400
300
200
100
0
12/19/13 09:00:00
12/19/13 10:00:00
12/19/13 11:00:00
12/19/13 12:00:00
12/19/13 13:00:00
12/19/13 14:00:00
12/19/13 15:00:00
12/19/13 16:00:00
12/19/13 17:00:00

ALTOL
Environmental Services, Inc.

P.O Box 359 Mercedita, PR 00715-0359

December 30, 2013

Mr. Benjamin Cintrón
Project Manager
Homeca Recycling

RE: AIR PARTICULATE MONITORING REPORT AT PUERTO RICO OLEFINES, PEÑUELAS, PR.

Dear Mr. Cintrón:

Altol Environmental Services, Inc., submits for your review the results obtained during the air particulates monitoring. These were performed following Altol operational procedures.

Altol's technician installed and removed the Data Ram-4 COM equipment from the Towers located at Puerto Rico Olefines in Peñuelas, PR. The equipment collected data every minute for approximately a eight (8) hour period. Also, during the installation and removal of the equipment the wind direction, wind velocity, weather and other conditions were documented as supplementary information. The wind velocity was measured using the Kestrell 4000 equipment.

Appendix 1 presents **Table 1** which summarizes the results of information collected at the towers. The data collected during this period indicated levels of particulate material (PM_{10}) that do not exceed the regulated limits of the United States Environmental Protection Agency (USEPA) of 150 $\mu g/m^3$ (40 CFR part 50) (**Appendix 2**). The information collected from each tower is presented in graphics in terms of mass and dates (**Appendix 3**).

The following Appendices present the tables and graphics results for mass ($\mu g/m^3$), temperature (^oF), relative humidity (RH) and diameter (nm), obtained from each Data Ram-4 COM equipment:

- **Appendix 4**, correspond to Tower # 1, December 20, 2013.
- **Appendix 5**, correspond to Tower # 2, December 20, 2013.

If you need any further information contact us at your earliest convenience at (787)-835-4242 or (787) 430-6141.

Statement of Authenticity,
Altol Environmental Services, Inc.

Certify that the results are complete and accurate

Cordially,

Carlos E. Ocasio Feliciano
Environmental Higiene

Parque Industrial Sabanetas ▫ Edificio M-1380 ▫ Ponce, PR 00715
Tel. (787) 835-4242 ▫ Fax (787) 835-2004

APPENDIX 1
FUGITIVE DUSTS SAMPLING AND TEST RESULTS

TABLE 1. FUGITIVE DUSTS SAMPLING AND ENVIRONMENTAL CONDITIONS

Air Monitoring Date	Air Monitoring Tower	Latitude and Longitude	Equipment Data Ram-4 COM						Equipment Kestrell Model 4000		Field Observation				Sampling Personnel
			Equipment Model/ID#	Start Time	Finish Time	Avg Mass ($\mu g/m^3$)	Regulatory Limits (µg/m3)	Avg Diameter (nm)	Wind Velocity Start Time (mph)	Wind Velocity Finish Time (mph)	Weather Condition Start Time	Weather Condition Finish Time	Wind Direction Start Time	Wind Direction Finish Time	
12/20/2013 12/20/2013	1		DR4/D788	7:42	13:34	0.49	150	0.36	4.8	3.7	Sunny	Cloudy	North West	North West	JS
12/20/2013 12/20/2013	2		DR4/D787	9:09	16:00	4.13	150	0.49	4.0	3.1	Sunny	Cloudy	North West	North West	JS

Standard Limit = 150 $\mu g/m^3$

Leyend

N/A - Not Aplicable
RV - Robert Velazquez
JRR- Jaime Rivera Rivera
JR- Juan Rivera
JC- Jose Cruz
NH Nehemias Hernandez
JS- José Santos

Towers Location:

Tower #1: PR-503
Tower #2: Disposal Area 3A
Tower #3: Access Road #1
Tower #4: Laboratory Area

ALTOL
Environmental Services, Inc.

Statement of Authenticity,
Certify that the results are complete and accurate

Cordially,

Carlos E. Ocasio Feliciano
Environmental Higiene

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APPENDIX 2
USEPA REGULATION PARAMETER

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National Ambient Air Quality Standards (NAAQS)

The Clean Air Act, which was last amended in 1990, requires EPA to set National Ambient Air Quality Standards (40 CFR part 50) for pollutants considered harmful to public health and the environment. The Clean Air Act established two types of national air quality standards. *Primary standards* set limits to protect public health, including the health of "sensitive" populations such as asthmatics, children, and the elderly. *Secondary standards* set limits to protect public welfare, including protection against decreased visibility, damage to animals, crops, vegetation, and buildings.

The EPA Office of Air Quality Planning and Standards (OAQPS) has set National Ambient Air Quality Standards for six principal pollutants, which are called "criteria" pollutants. They are listed below. Units of measure for the standards are parts per million (ppm) by volume, milligrams per cubic meter of air (mg/m³), and micrograms per cubic meter of air (µg/m³).

National Ambient Air Quality Standards

	Primary Standards		Secondary Standards	
Pollutant	Level	Averaging Time	Level	Averaging Time
Carbon Monoxide	9 ppm (10 mg/m³)	8-hour [1]	None	
	35 ppm (40 mg/m³)	1-hour [1]		
Lead	0.15 µg/m³ [2]	Rolling 3-Month Average	Same as Primary	
	1.5 µg/m³	Quarterly Average	Same as Primary	
Nitrogen Dioxide	0.053 ppm (100 µg/m³)	Annual (Arithmetic Mean)	Same as Primary	
Particulate Matter (PM_{10})	150 µg/m³	24-hour [3]	Same as Primary	
Particulate Matter ($PM_{2.5}$)	15.0 µg/m³	Annual [4] (Arithmetic Mean)	Same as Primary	
	35 µg/m³	24-hour [5]	Same as Primary	
Ozone	0.075 ppm (2008 std)	8-hour [6]	Same as Primary	
	0.08 ppm (1997 std)	8-hour [7]	Same as Primary	
	0.12 ppm	1-hour [8] (Applies only in limited areas)	Same as Primary	
Sulfur Dioxide	0.03 ppm	Annual (Arithmetic Mean)	0.5 ppm (1300 µg/m³)	3-hour [1]
	0.14 ppm	24-hour [1]		

[1] Not to be exceeded more than once per year.
[2] Final rule signed October 15, 2008.
[3] Not to be exceeded more than once per year on average over 3 years.
[4] To attain this standard, the 3-year average of the weighted annual mean PM2.5 concentrations from single or multiple community-oriented monitors must not exceed 15.0 µg/m3.
[5] To attain this standard, the 3-year average of the 98th percentile of 24-hour concentrations at each population-oriented monitor within an area must not exceed 35 µg/m3 (effective December 17, 2006).
[6] To attain this standard, the 3-year average of the fourth-highest daily maximum 8-hour average ozone concentrations measured at each monitor within an area over each year must not exceed 0.075 ppm. (effective May 27, 2008)
[7] (a) To attain this standard, the 3-year average of the fourth-highest daily maximum 8-hour average ozone concentrations measured at each monitor within an area over each year must not exceed 0.08 ppm.

(b) The 1997 standard—and the implementation rules for that standard—will remain in place for implementation purposes as EPA undertakes rulemaking to address the transition from the 1997 ozone standard to the 2008 ozone standard.

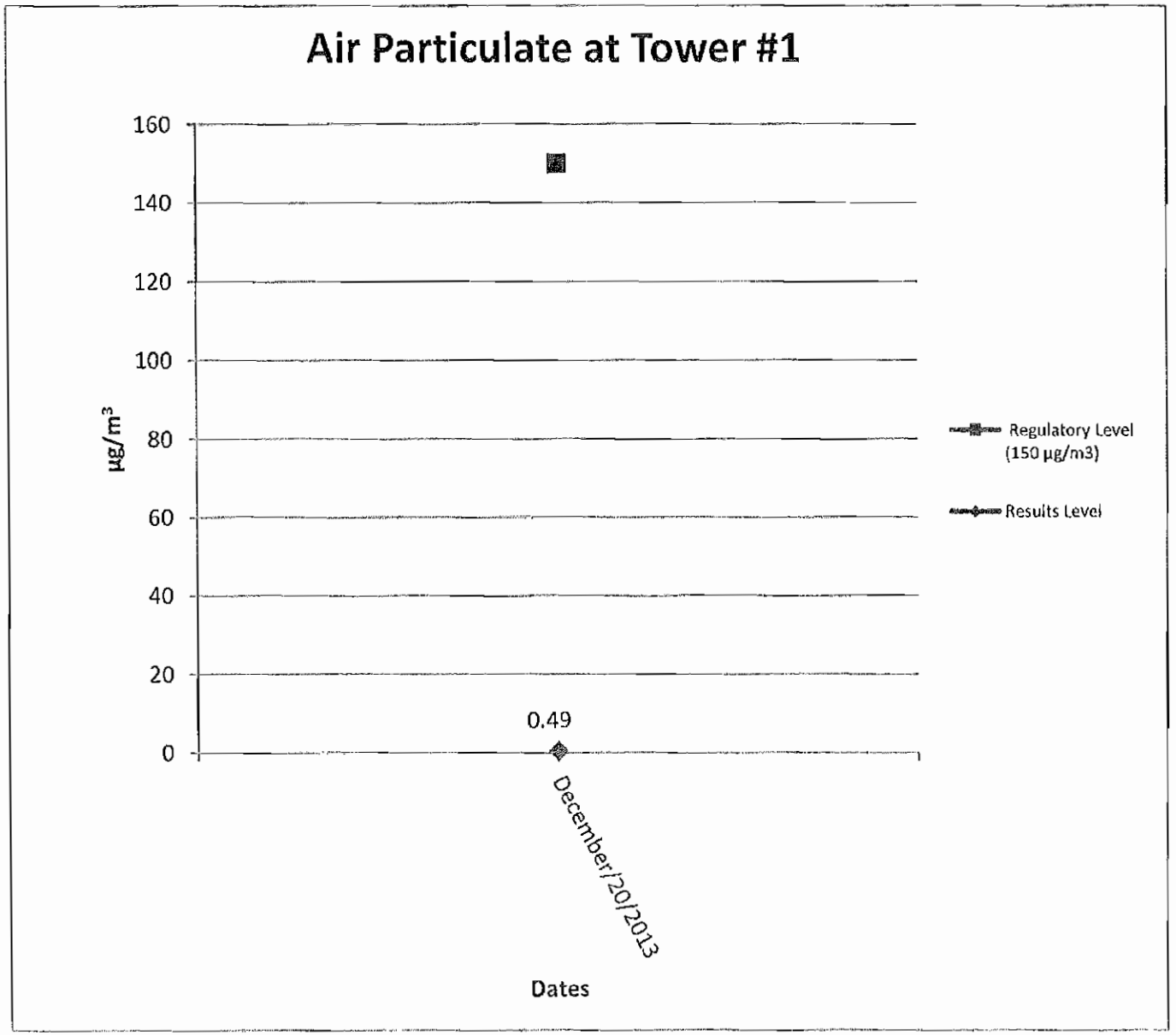
[8] (a) The standard is attained when the expected number of days per calendar year with maximum hourly average concentrations above 0.12 ppm is ≤ 1.

(b) As of June 15, 2005 EPA revoked the 1-hour ozone standard in all areas except the 8-hour ozone nonattainment Early Action Compact (EAC) Areas.

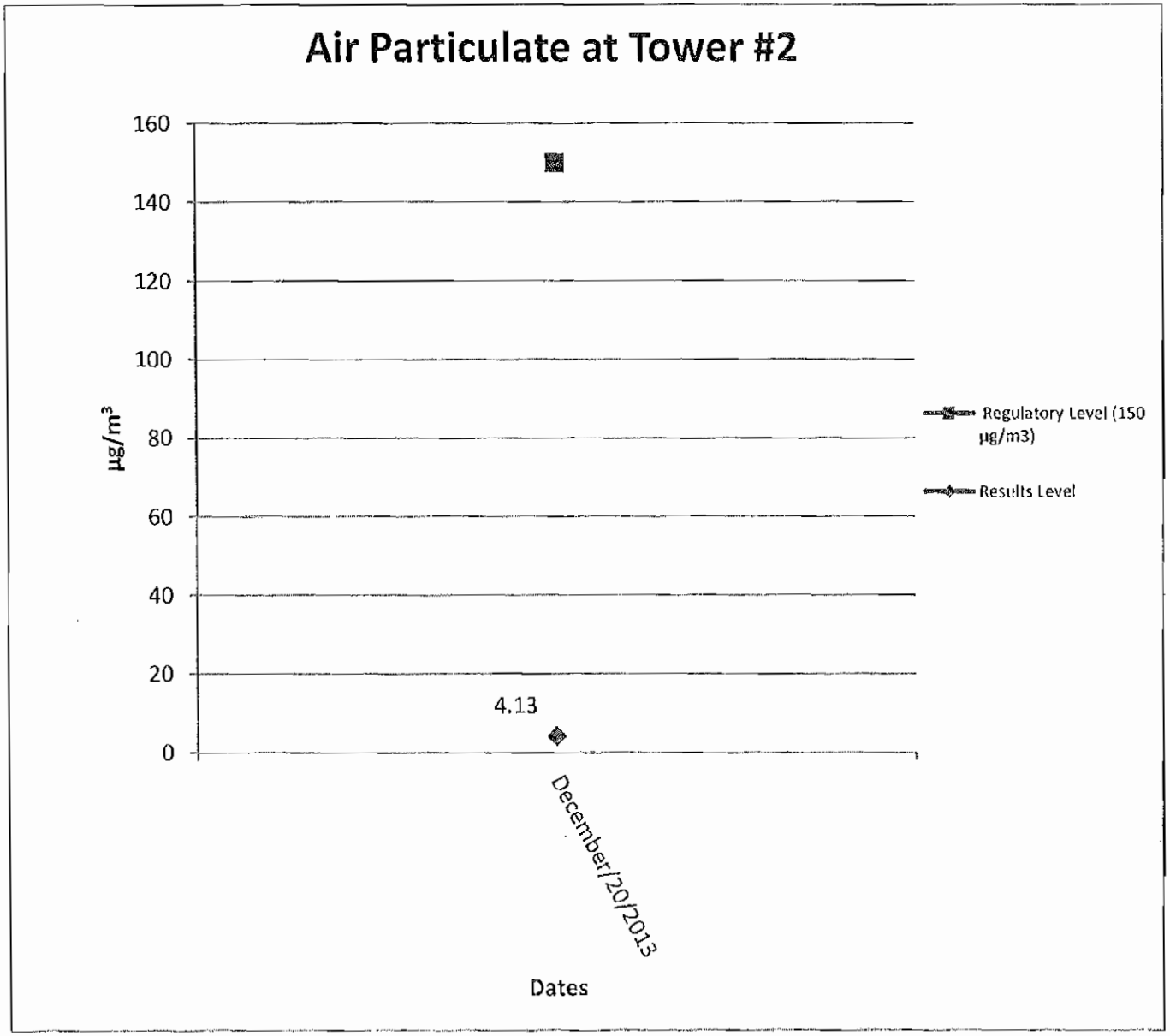
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APPENDIX 3
GRAPHICS OF MASS vs DATE

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APPENDIX 4
TOWER #1 AIR PARTICULATE MONITORING

"Model Number", "DataRAM 4 ", 106
"Serial no. ", "D788 "
"Device no. ", 1
"Tag Number ", 60
"Start Time ", 07:41:00
"Start Date ", 20-Dec-2013
"Log Period ", 00:01:00
"Number ", 353
"CalFactor ", 1.000000
"Unit ", 0
"Unit Name ", "(MASS)ug/m3"
"SIZE_CORRECT", "ENABLED"
"TEMPUNITS ", F
"Max MASS ", 4.736429
"Max MASS @ ", 1 ,07:42:00 ,20-Dec-2013
"Avg MASS ", 0.493148
"Max Diam ", 0.652612
"Max Diam @ ", 281 ,12:22:00 ,20-Dec-2013
"Avg Diam ", 0.356840
"ALARM ", "DISABLED"
"ALARM_LEVEL ", 0.0
"AUTO_ZERO ", "DISABLED"
"AZ INTERVAL ", 1
"Errors ", 0000

record	"(MASS)ug/m3"	Temp	RHumidity	Diameter		
1,	4.7,	72.6,	47,	0.4486	,07:42:00	,20-Dec-2013
2,	2.3,	72.9,	53,	0.3946	,07:43:00	,20-Dec-2013
3,	1.9,	73.2,	57,	0.3655	,07:44:00	,20-Dec-2013
4,	1.8,	73.5,	59,	0.3585	,07:45:00	,20-Dec-2013
5,	1.2,	73.8,	61,	0.3600	,07:46:00	,20-Dec-2013
6,	1.1,	74.3,	62,	0.3589	,07:47:00	,20-Dec-2013
7,	1.1,	74.6,	63,	0.3588	,07:48:00	,20-Dec-2013
8,	0.9,	74.9,	64,	0.3552	,07:49:00	,20-Dec-2013
9,	0.6,	75.3,	64,	0.3487	,07:50:00	,20-Dec-2013
10,	0.5,	75.6,	64,	0.3471	,07:51:00	,20-Dec-2013
11,	0.6,	76.0,	65,	0.3487	,07:52:00	,20-Dec-2013
12,	0.6,	76.4,	65,	0.3476	,07:53:00	,20-Dec-2013
13,	0.6,	76.7,	65,	0.3483	,07:54:00	,20-Dec-2013
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CONFIDENTIAL SUBJECT TO PROTECTIVE ORDER

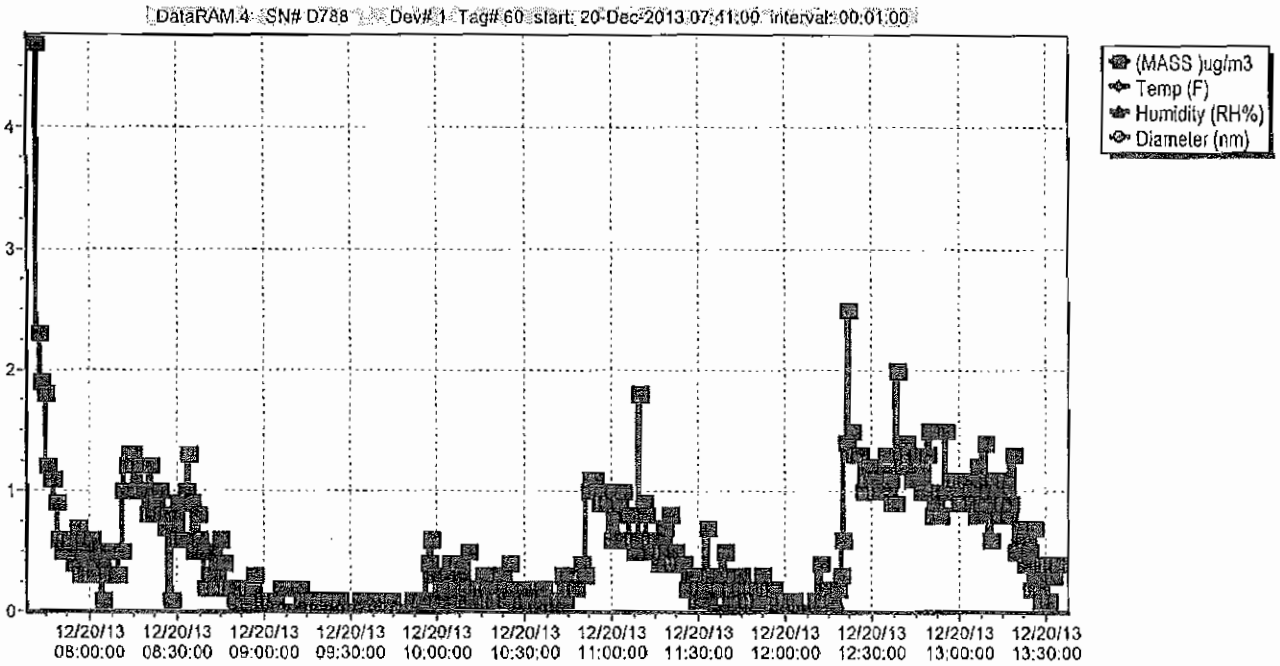
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233,	0.3,	85.4,	59,	0.3521	,11:34:00	,20-Dec-2013
234,	0.3,	85.3,	60,	0.3503	,11:35:00	,20-Dec-2013
235,	0.0,	85.2,	60,	0.3390	,11:36:00	,20-Dec-2013
236,	0.2,	85.2,	60,	0.3479	,11:37:00	,20-Dec-2013
237,	0.3,	85.1,	60,	0.3533	,11:38:00	,20-Dec-2013
238,	0.5,	85.0,	60,	0.3638	,11:39:00	,20-Dec-2013
239,	0.0,	85.0,	61,	0.3392	,11:40:00	,20-Dec-2013
240,	0.2,	85.0,	61,	0.3503	,11:41:00	,20-Dec-2013
241,	0.3,	85.1,	61,	0.3553	,11:42:00	,20-Dec-2013
242,	0.1,	85.1,	61,	0.3421	,11:43:00	,20-Dec-2013
243,	0.2,	85.2,	61,	0.3472	,11:44:00	,20-Dec-2013
244,	0.3,	85.4,	61,	0.3528	,11:45:00	,20-Dec-2013
245,	0.1,	85.5,	61,	0.3434	,11:46:00	,20-Dec-2013
246,	0.1,	85.7,	61,	0.3417	,11:47:00	,20-Dec-2013
247,	0.2,	85.9,	61,	0.3473	,11:48:00	,20-Dec-2013
248,	0.1,	86.1,	61,	0.3400	,11:49:00	,20-Dec-2013
249,	0.2,	86.3,	61,	0.3474	,11:50:00	,20-Dec-2013
250,	0.1,	86.5,	60,	0.3444	,11:51:00	,20-Dec-2013
251,	0.3,	86.8,	60,	0.3515	,11:52:00	,20-Dec-2013
252,	0.2,	87.0,	59,	0.3461	,11:53:00	,20-Dec-2013
253,	0.2,	87.2,	59,	0.3492	,11:54:00	,20-Dec-2013
254,	0.0,	87.3,	58,	0.3382	,11:55:00	,20-Dec-2013
255,	0.2,	87.6,	58,	0.3470	,11:56:00	,20-Dec-2013
256,	0.1,	87.8,	57,	0.3429	,11:57:00	,20-Dec-2013
257,	0.0,	87.9,	57,	0.3383	,11:58:00	,20-Dec-2013
258,	0.1,	88.1,	56,	0.3444	,11:59:00	,20-Dec-2013
259,	0.1,	88.1,	56,	0.3421	,12:00:00	,20-Dec-2013
260,	0.0,	88.2,	55,	0.3392	,12:01:00	,20-Dec-2013
261,	0.1,	88.2,	55,	0.3416	,12:02:00	,20-Dec-2013
262,	0.1,	88.3,	55,	0.3417	,12:03:00	,20-Dec-2013
263,	0.0,	88.3,	55,	0.3394	,12:04:00	,20-Dec-2013
264,	0.0,	88.2,	54,	0.3387	,12:05:00	,20-Dec-2013
265,	0.0,	88.2,	54,	0.3385	,12:06:00	,20-Dec-2013
266,	0.0,	88.1,	54,	0.3393	,12:07:00	,20-Dec-2013
267,	0.0,	88.1,	53,	0.3388	,12:08:00	,20-Dec-2013
268,	0.0,	88.1,	54,	0.3392	,12:09:00	,20-Dec-2013
269,	0.1,	88.0,	53,	0.3415	,12:10:00	,20-Dec-2013
270,	0.1,	88.0,	53,	0.3406	,12:11:00	,20-Dec-2013
271,	0.4,	88.0,	54,	0.3562	,12:12:00	,20-Dec-2013
272,	0.1,	87.9,	53,	0.3408	,12:13:00	,20-Dec-2013
273,	0.2,	87.9,	53,	0.3453	,12:14:00	,20-Dec-2013
274,	0.2,	87.9,	53,	0.3413	,12:15:00	,20-Dec-2013
275,	0.1,	87.8,	53,	0.3383	,12:16:00	,20-Dec-2013
276,	0.0,	87.8,	53,	0.3379	,12:17:00	,20-Dec-2013
277,	0.2,	87.8,	53,	0.3401	,12:18:00	,20-Dec-2013
278,	0.3,	87.8,	53,	0.3417	,12:19:00	,20-Dec-2013
279,	0.6,	87.8,	53,	0.3461	,12:20:00	,20-Dec-2013
280,	1.4,	87.7,	53,	0.3846	,12:21:00	,20-Dec-2013
281,	2.5,	87.5,	54,	0.6526	,12:22:00	,20-Dec-2013
282,	1.5,	87.4,	54,	0.4262	,12:23:00	,20-Dec-2013
283,	1.3,	87.2,	54,	0.3908	,12:24:00	,20-Dec-2013
284,	1.3,	87.1,	55,	0.3898	,12:25:00	,20-Dec-2013
285,	1.3,	86.9,	55,	0.3857	,12:26:00	,20-Dec-2013
286,	1.0,	86.7,	56,	0.3662	,12:27:00	,20-Dec-2013
287,	1.1,	86.5,	57,	0.3688	,12:28:00	,20-Dec-2013
288,	1.2,	86.3,	57,	0.3792	,12:29:00	,20-Dec-2013
289,	1.1,	86.2,	57,	0.3733	,12:30:00	,20-Dec-2013
290,	1.0,	86.0,	58,	0.3734	,12:31:00	,20-Dec-2013
291,	1.0,	85.8,	58,	0.3733	,12:32:00	,20-Dec-2013
292,	1.0,	85.6,	57,	0.3701	,12:33:00	,20-Dec-2013
293,	1.2,	85.4,	57,	0.3787	,12:34:00	,20-Dec-2013
294,	1.3,	85.3,	58,	0.3815	,12:35:00	,20-Dec-2013
295,	1.1,	85.2,	58,	0.3773	,12:36:00	,20-Dec-2013

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296,	0.9,	85.0,	58,	0.3692	,12:37:00	,20-Dec-2013
297,	0.9,	84.9,	58,	0.3680	,12:38:00	,20-Dec-2013
298,	2.0,	84.7,	57,	0.3704	,12:39:00	,20-Dec-2013
299,	1.3,	84.7,	57,	0.3644	,12:40:00	,20-Dec-2013
300,	1.2,	84.6,	57,	0.3513	,12:41:00	,20-Dec-2013
301,	1.4,	84.6,	57,	0.3535	,12:42:00	,20-Dec-2013
302,	1.3,	84.7,	57,	0.3523	,12:43:00	,20-Dec-2013
303,	1.1,	84.7,	57,	0.3506	,12:44:00	,20-Dec-2013
304,	1.3,	84.9,	57,	0.3526	,12:45:00	,20-Dec-2013
305,	1.3,	85.1,	57,	0.3532	,12:46:00	,20-Dec-2013
306,	1.0,	85.2,	57,	0.3529	,12:47:00	,20-Dec-2013
307,	1.0,	85.4,	57,	0.3530	,12:48:00	,20-Dec-2013
308,	1.3,	85.6,	57,	0.3574	,12:49:00	,20-Dec-2013
309,	1.5,	85.9,	57,	0.3601	,12:50:00	,20-Dec-2013
310,	0.8,	86.2,	57,	0.3487	,12:51:00	,20-Dec-2013
311,	0.9,	86.4,	56,	0.3544	,12:52:00	,20-Dec-2013
312,	1.0,	86.8,	56,	0.3624	,12:53:00	,20-Dec-2013
313,	0.8,	87.0,	55,	0.3573	,12:54:00	,20-Dec-2013
314,	1.0,	87.2,	55,	0.3639	,12:55:00	,20-Dec-2013
315,	1.5,	87.3,	54,	0.3742	,12:56:00	,20-Dec-2013
316,	1.1,	87.4,	54,	0.3602	,12:57:00	,20-Dec-2013
317,	1.1,	87.6,	54,	0.3598	,12:58:00	,20-Dec-2013
318,	1.1,	87.6,	54,	0.3589	,12:59:00	,20-Dec-2013
319,	0.9,	87.7,	53,	0.3559	,13:00:00	,20-Dec-2013
320,	1.1,	87.7,	53,	0.3602	,13:01:00	,20-Dec-2013
321,	1.1,	87.8,	53,	0.3598	,13:02:00	,20-Dec-2013
322,	1.1,	87.9,	53,	0.3607	,13:03:00	,20-Dec-2013
323,	1.0,	87.9,	53,	0.3587	,13:04:00	,20-Dec-2013
324,	0.9,	88.0,	53,	0.3565	,13:05:00	,20-Dec-2013
325,	0.8,	88.1,	53,	0.3532	,13:06:00	,20-Dec-2013
326,	1.2,	88.2,	53,	0.3621	,13:07:00	,20-Dec-2013
327,	0.9,	88.2,	53,	0.3551	,13:08:00	,20-Dec-2013
328,	1.4,	88.2,	53,	0.3654	,13:09:00	,20-Dec-2013
329,	1.0,	88.2,	53,	0.3572	,13:10:00	,20-Dec-2013
330,	0.6,	88.3,	53,	0.3499	,13:11:00	,20-Dec-2013
331,	1.1,	88.3,	53,	0.3592	,13:12:00	,20-Dec-2013
332,	1.0,	88.3,	53,	0.3575	,13:13:00	,20-Dec-2013
333,	0.8,	88.3,	53,	0.3543	,13:14:00	,20-Dec-2013
334,	0.9,	88.4,	53,	0.3560	,13:15:00	,20-Dec-2013
335,	1.1,	88.4,	53,	0.3591	,13:16:00	,20-Dec-2013
336,	0.8,	88.5,	53,	0.3551	,13:17:00	,20-Dec-2013
337,	0.9,	88.7,	53,	0.3546	,13:18:00	,20-Dec-2013
338,	1.3,	88.8,	53,	0.3641	,13:19:00	,20-Dec-2013
339,	0.5,	88.9,	53,	0.3462	,13:20:00	,20-Dec-2013
340,	0.7,	89.1,	53,	0.3509	,13:21:00	,20-Dec-2013
341,	0.6,	89.2,	52,	0.3486	,13:22:00	,20-Dec-2013
342,	0.4,	89.4,	52,	0.3455	,13:23:00	,20-Dec-2013
343,	0.5,	89.6,	52,	0.3468	,13:24:00	,20-Dec-2013
344,	0.2,	89.6,	51,	0.3404	,13:25:00	,20-Dec-2013
345,	0.7,	89.7,	51,	0.3504	,13:26:00	,20-Dec-2013
346,	0.2,	89.7,	50,	0.3405	,13:27:00	,20-Dec-2013
347,	0.1,	89.6,	50,	0.3388	,13:28:00	,20-Dec-2013
348,	0.4,	89.6,	50,	0.3445	,13:29:00	,20-Dec-2013
349,	0.4,	89.5,	50,	0.3438	,13:30:00	,20-Dec-2013
350,	0.1,	89.4,	49,	0.3388	,13:31:00	,20-Dec-2013
351,	0.4,	89.4,	49,	0.3441	,13:32:00	,20-Dec-2013
352,	0.3,	89.4,	49,	0.3435	,13:33:00	,20-Dec-2013
353,	0.4,	89.4,	49,	0.3445	,13:34:00	,20-Dec-2013



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DataRAM 4 SN# D788 Dev# 1 Tag# 60 start 20-Dec-2013 07:41:00 Interval 00:01:00
(MASS) ug/m3
Temp (F)
Humidity (RH%)
Diameter (nm)
95
90
85
80
75
70
65
60
55
50
45
40
35
30
25
20
15
10
5
0
12/20/13 08:00:00
12/20/13 08:30:00
12/20/13 09:00:00
12/20/13 09:30:00
12/20/13 10:00:00
12/20/13 10:30:00
12/20/13 11:00:00
12/20/13 11:30:00
12/20/13 12:00:00
12/20/13 12:30:00
12/20/13 13:00:00
12/20/13 13:30:00

DataRAM 4 SN#:D786 Dev#:1 Tag#:60 start:20-Dec-2013 07:41:00 Interval:00:01:00
(MASS)ug/m3
Temp (F)
Humidity (RH%)
Diameter (nm)
65
60
55
50
45
40
35
30
25
20
15
10
5
0
12/20/13 08:00:00
12/20/13 08:30:00
12/20/13 09:00:00
12/20/13 09:30:00
12/20/13 10:00:00
12/20/13 10:30:00
12/20/13 11:00:00
12/20/13 11:30:00
12/20/13 12:00:00
12/20/13 12:30:00
12/20/13 13:00:00
12/20/13 13:30:00

(MASS)ug/m3
Temp (F)
Humidity (RH%)
Diameter (nm)
DataRAM 4 SN# D788 Dev# 1 Tag# 60 start 20-Dec-2013 07:41:00 interval 00:01:00
650
600
550
500
450
400
350
300
250
200
150
100
50
0
12/20/13 08:00:00
12/20/13 08:30:00
12/20/13 09:00:00
12/20/13 09:30:00
12/20/13 10:00:00
12/20/13 10:30:00
12/20/13 11:00:00
12/20/13 11:30:00
12/20/13 12:00:00
12/20/13 12:30:00
12/20/13 13:00:00
12/20/13 13:30:00

APPENDIX 5

TOWER #2 AIR PARTICULATE MONITORING

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```
"Model Number", "DataRAM 4 ", 106
 Serial no.  ", "D787      "
"Device no.  ", HOMECA RECYCLING,PR OLEFINS TORRE 2 SUR
"Tag Number  ", 9
 Start Time  ", 09:08:10
 Start Date  ", 20-Dec-2013
"Log Period  ", 00:01:00
 Number      ", 443
 CalFactor   ", 1.000000
"Unit        ", 0
"Unit Name   ", "(MASS )ug/m3"
 SIZE_CORRECT", "ENABLED"
"TEMPUNITS   ", F
"Max MASS    ", 593.886400
 Max MASS  @ ", 1  ,04:15:10  ,20-Dec-2013
 Avg MASS    ", 3.637686
"Max Diam    ", 4.127007
 Max Diam @  ",   ,09:07:10   ,20-Dec-2013
 Avg Diam    ", 0.487157
"ALARM       ", "DISABLED"
"ALARM_LEVEL ", 0.0
 AUTO_ZERO   ", "DISABLED"
 AZ INTERVAL ", 1
"Errors      ", 0000
"ecord,"(MASS )ug/m3", Temp, RHumidity, Diameter
     1,        6.9,  85.2,   51,   0.50  ,09:09:10  ,20-Dec-2013
     2,        3.4,  85.2,   52,   0.53  ,09:10:10  ,20-Dec-2013
     3,        2.9,  85.2,   53,   0.60  ,09:11:10  ,20-Dec-2013
     4,        3.3,  85.2,   54,   0.60  ,09:12:10  ,20-Dec-2013
     5,        3.2,  85.3,   54,   0.51  ,09:13:10  ,20-Dec-2013
     6,        3.4,  85.3,   54,   0.63  ,09:14:10  ,20-Dec-2013
     7,        2.9,  85.3,   54,   0.62  ,09:15:10  ,20-Dec-2013
     8,        3.0,  85.4,   55,   0.58  ,09:16:10  ,20-Dec-2013
     9,        3.2,  85.4,   54,   0.86  ,09:17:10  ,20-Dec-2013
    10,        3.3,  85.3,   54,   0.82  ,09:18:10  ,20-Dec-2013
    11,        3.6,  85.4,   54,   0.78  ,09:19:10  ,20-Dec-2013
    12,        3.6,  85.5,   54,   0.66  ,09:20:10  ,20-Dec-2013
    13,        3.5,  85.5,   54,   0.69  ,09:21:10  ,20-Dec-2013
    14,        3.0,  85.4,   54,   0.52  ,09:22:10  ,20-Dec-2013
    15,        3.1,  85.5,   54,   0.57  ,09:23:10  ,20-Dec-2013
    16,        3.3,  85.5,   55,   0.70  ,09:24:10  ,20-Dec-2013
    17,        3.0,  85.6,   55,   0.55  ,09:25:10  ,20-Dec-2013
    18,        2.9,  85.5,   55,   0.47  ,09:26:10  ,20-Dec-2013
    19,        2.8,  85.6,   55,   0.46  ,09:27:10  ,20-Dec-2013
    20,        3.3,  85.6,   55,   0.60  ,09:28:10  ,20-Dec-2013
    21,        3.1,  85.6,   54,   0.62  ,09:29:10  ,20-Dec-2013
    22,        3.5,  85.7,   54,   0.65  ,09:30:10  ,20-Dec-2013
    23,        3.1,  85.8,   54,   0.48  ,09:31:10  ,20-Dec-2013
    24,        3.1,  85.8,   54,   0.50  ,09:32:10  ,20-Dec-2013
    25,        3.0,  85.9,   54,   0.45  ,09:33:10  ,20-Dec-2013
    26,        3.0,  85.9,   54,   0.49  ,09:34:10  ,20-Dec-2013
    27,        3.0,  86.0,   54,   0.53  ,09:35:10  ,20-Dec-2013
    28,        2.7,  86.0,   54,   0.52  ,09:36:10  ,20-Dec-2013
    29,        2.9,  86.0,   54,   0.51  ,09:37:10  ,20-Dec-2013
    30,        2.8,  86.0,   54,   0.57  ,09:38:10  ,20-Dec-2013
    31,        2.7,  86.1,   54,   0.48  ,09:39:10  ,20-Dec-2013
    32,        2.6,  86.2,   54,   0.45  ,09:40:10  ,20-Dec-2013
    33,        2.8,  86.1,   54,   0.37  ,09:41:10  ,20-Dec-2013
    34,        2.1,  86.2,   53,   0.43  ,09:42:10  ,20-Dec-2013
    35,        2.2,  86.2,   53,   0.43  ,09:43:10  ,20-Dec-2013
    36,        2.9,  86.2,   53,   0.40  ,09:44:10  ,20-Dec-2013
    37,        2.3,  86.3,   53,   0.40  ,09:45:10  ,20-Dec-2013
    38,        2.5,  86.3,   53,   0.43  ,09:46:10  ,20-Dec-2013
    39,        2.3,  86.3,   53,   0.49  ,09:47:10  ,20-Dec-2013
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40,	2.2,	86.4,	52,	0.43	,09:48:10	,20-Dec-2013
41,	2.3,	86.4,	52,	0.45	,09:49:10	,20-Dec-2013
42,	2.3,	86.4,	52,	0.42	,09:50:10	,20-Dec-2013
43,	2.5,	86.4,	52,	0.45	,09:51:10	,20-Dec-2013
44,	2.2,	86.4,	52,	0.45	,09:52:10	,20-Dec-2013
45,	2.6,	86.3,	52,	0.46	,09:53:10	,20-Dec-2013
46,	2.5,	86.4,	52,	0.51	,09:54:10	,20-Dec-2013
47,	2.7,	86.3,	52,	0.54	,09:55:10	,20-Dec-2013
48,	2.6,	86.3,	52,	0.49	,09:56:10	,20-Dec-2013
49,	2.9,	86.4,	51,	0.59	,09:57:10	,20-Dec-2013
50,	7.7,	86.4,	51,	1.39	,09:58:10	,20-Dec-2013
51,	2.6,	86.4,	51,	0.55	,09:59:10	,20-Dec-2013
52,	2.1,	86.4,	51,	0.51	,10:00:10	,20-Dec-2013
53,	1.8,	86.5,	51,	0.51	,10:01:10	,20-Dec-2013
54,	1.8,	86.5,	50,	0.47	,10:02:10	,20-Dec-2013
55,	2.2,	86.5,	50,	0.46	,10:03:10	,20-Dec-2013
56,	2.2,	86.5,	50,	0.45	,10:04:10	,20-Dec-2013
57,	2.4,	86.5,	50,	0.46	,10:05:10	,20-Dec-2013
58,	2.4,	86.5,	50,	0.52	,10:06:10	,20-Dec-2013
59,	2.5,	86.5,	50,	0.47	,10:07:10	,20-Dec-2013
60,	2.3,	86.5,	50,	0.41	,10:08:10	,20-Dec-2013
61,	2.5,	86.5,	50,	0.41	,10:09:10	,20-Dec-2013
62,	2.2,	86.6,	50,	0.43	,10:10:10	,20-Dec-2013
63,	2.1,	86.6,	50,	0.49	,10:11:10	,20-Dec-2013
64,	2.4,	86.6,	50,	0.47	,10:12:10	,20-Dec-2013
65,	2.6,	86.6,	50,	0.42	,10:13:10	,20-Dec-2013
66,	2.4,	86.6,	50,	0.43	,10:14:10	,20-Dec-2013
67,	2.4,	86.6,	49,	0.51	,10:15:10	,20-Dec-2013
68,	2.6,	86.7,	49,	0.50	,10:16:10	,20-Dec-2013
69,	2.3,	86.6,	49,	0.43	,10:17:10	,20-Dec-2013
70,	2.6,	86.7,	49,	0.44	,10:18:10	,20-Dec-2013
71,	2.2,	86.7,	49,	0.46	,10:19:10	,20-Dec-2013
72,	2.0,	86.7,	49,	0.43	,10:20:10	,20-Dec-2013
73,	1.9,	86.7,	49,	0.41	,10:21:10	,20-Dec-2013
74,	2.0,	86.7,	49,	0.45	,10:22:10	,20-Dec-2013
75,	2.4,	86.7,	49,	0.48	,10:23:10	,20-Dec-2013
76,	2.6,	86.7,	49,	0.49	,10:24:10	,20-Dec-2013
77,	2.5,	86.7,	49,	0.55	,10:25:10	,20-Dec-2013
78,	3.8,	86.7,	49,	0.55	,10:26:10	,20-Dec-2013
79,	3.9,	86.8,	49,	0.70	,10:27:10	,20-Dec-2013
80,	2.5,	86.7,	49,	0.41	,10:28:10	,20-Dec-2013
81,	2.4,	86.7,	49,	0.42	,10:29:10	,20-Dec-2013
82,	2.4,	86.7,	49,	0.48	,10:30:10	,20-Dec-2013
83,	2.8,	86.8,	49,	0.42	,10:31:10	,20-Dec-2013
84,	2.5,	86.8,	49,	0.48	,10:32:10	,20-Dec-2013
85,	2.3,	86.8,	49,	0.47	,10:33:10	,20-Dec-2013
86,	2.2,	86.8,	49,	0.50	,10:34:10	,20-Dec-2013
87,	2.3,	86.8,	49,	0.45	,10:35:10	,20-Dec-2013
88,	2.2,	86.8,	49,	0.38	,10:36:10	,20-Dec-2013
89,	2.4,	86.8,	49,	0.38	,10:37:10	,20-Dec-2013
90,	2.1,	86.8,	49,	0.46	,10:38:10	,20-Dec-2013
91,	3.2,	86.8,	49,	0.55	,10:39:10	,20-Dec-2013
92,	103.4,	86.8	49	1.12	,10:40:10	,20-Dec-2013
124,	87.1,	86.8,	49,	1.17	,10:41:10	,20-Dec-2013
125,	593.9,	86.9,	49,	4.10	,10:42:10	,20-Dec-2013
126,	75.9,	86.9,	49,	3.29	,10:43:10	,20-Dec-2013
127,	23.0,	86.8,	49,	2.65	,10:44:10	,20-Dec-2013
128,	21.2,	86.8,	49,	2.39	,10:45:10	,20-Dec-2013
129,	3.8,	86.9,	49,	0.56	,10:46:10	,20-Dec-2013
130,	13.8,	86.8,	49,	1.44	,10:47:10	,20-Dec-2013
131,	24.2,	86.9,	49,	2.24	,10:48:10	,20-Dec-2013
132,	6.4,	86.8,	49,	1.07	,10:49:10	,20-Dec-2013
133,	6.9,	86.9,	49,	1.02	,10:50:10	,20-Dec-2013
134,	9.4,	86.8,	49,	1.33	,10:51:10	,20-Dec-2013

135,	3.2,	86.8,	49,	0.53	,10:52:10	,20-Dec-2013
136,	3.4,	86.8,	49,	0.54	,10:53:10	,20-Dec-2013
137,	3.3,	86.8,	49,	0.69	,10:54:10	,20-Dec-2013
138,	3.7,	86.8,	49,	0.59	,10:55:10	,20-Dec-2013
139,	4.8,	86.8,	49,	0.77	,10:56:10	,20-Dec-2013
140,	2.6,	86.8,	49,	0.51	,10:57:10	,20-Dec-2013
141,	3.5,	86.8,	49,	0.49	,10:58:10	,20-Dec-2013
142,	10.9,	86.8,	49,	1.31	,10:59:10	,20-Dec-2013
143,	8.8,	86.8,	49,	1.47	,11:00:10	,20-Dec-2013
144,	5.3,	86.8,	49,	0.78	,11:01:10	,20-Dec-2013
145,	3.8,	86.8,	49,	0.55	,11:02:10	,20-Dec-2013
146,	3.7,	86.8,	49,	0.42	,11:03:10	,20-Dec-2013
147,	3.3,	86.8,	49,	0.46	,11:04:10	,20-Dec-2013
148,	4.4,	86.8,	49,	0.71	,11:05:10	,20-Dec-2013
149,	3.8,	86.8,	49,	0.73	,11:06:10	,20-Dec-2013
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152,	3.1,	86.8,	49,	0.51	,11:09:10	,20-Dec-2013
153,	3.0,	86.8,	49,	0.54	,11:10:10	,20-Dec-2013
154,	3.1,	86.8,	49,	0.52	,11:11:10	,20-Dec-2013
155,	3.1,	86.7,	49,	0.42	,11:12:10	,20-Dec-2013
156,	3.5,	86.7,	49,	0.64	,11:13:10	,20-Dec-2013
157,	59.8,	86.8,	50,	3.38	,11:14:10	,20-Dec-2013
158,	98.6,	86.8,	50,	3.19	,11:15:10	,20-Dec-2013
159,	22.3,	86.8,	50,	2.90	,11:16:10	,20-Dec-2013
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164,	2.6,	86.7,	50,	0.47	,11:21:10	,20-Dec-2013
165,	2.8,	86.7,	50,	0.47	,11:22:10	,20-Dec-2013
166,	2.7,	86.8,	50,	0.48	,11:23:10	,20-Dec-2013
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168,	2.9,	86.8,	50,	0.56	,11:25:10	,20-Dec-2013
169,	4.4,	86.7,	50,	0.82	,11:26:10	,20-Dec-2013
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171,	2.8,	86.8,	50,	0.61	,11:28:10	,20-Dec-2013
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173,	3.0,	86.7,	50,	0.45	,11:30:10	,20-Dec-2013
174,	2.8,	86.8,	50,	0.46	,11:31:10	,20-Dec-2013
175,	2.7,	86.7,	50,	0.59	,11:32:10	,20-Dec-2013
176,	3.1,	86.7,	50,	0.59	,11:33:10	,20-Dec-2013
177,	2.7,	86.7,	50,	0.45	,11:34:10	,20-Dec-2013
178,	2.9,	86.7,	50,	0.42	,11:35:10	,20-Dec-2013
179,	2.8,	86.7,	50,	0.37	,11:36:10	,20-Dec-2013
180,	2.4,	86.7,	50,	0.41	,11:37:10	,20-Dec-2013
181,	2.6,	86.7,	49,	0.46	,11:38:10	,20-Dec-2013
182,	2.7,	86.7,	49,	0.55	,11:39:10	,20-Dec-2013
183,	2.9,	86.7,	49,	0.51	,11:40:10	,20-Dec-2013
184,	2.7,	86.7,	49,	0.45	,11:41:10	,20-Dec-2013
185,	2.4,	86.6,	49,	0.44	,11:42:10	,20-Dec-2013
186,	3.2,	86.6,	49,	0.60	,11:43:10	,20-Dec-2013
187,	2.9,	86.6,	49,	0.61	,11:44:10	,20-Dec-2013
188,	3.3,	86.6,	49,	0.54	,11:45:10	,20-Dec-2013
189,	2.7,	86.6,	49,	0.54	,11:46:10	,20-Dec-2013
190,	2.5,	86.6,	49,	0.55	,11:47:10	,20-Dec-2013
191,	2.7,	86.6,	49,	0.47	,11:48:10	,20-Dec-2013
192,	2.9,	86.6,	49,	0.54	,11:49:10	,20-Dec-2013
193,	4.3,	86.6,	49,	0.75	,11:50:10	,20-Dec-2013
194,	6.4,	86.6,	49,	1.06	,11:51:10	,20-Dec-2013
195,	5.7,	86.6,	49,	1.06	,11:52:10	,20-Dec-2013
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199,	3.2,	86.5,	49,	0.58	,11:56:10	,20-Dec-2013
200,	3.0,	86.5,	49,	0.49	,11:57:10	,20-Dec-2013
201,	3.0,	86.5,	49,	0.53	,11:58:10	,20-Dec-2013
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203,	2.8,	86.5,	49,	0.57	,12:00:10	,20-Dec-2013
204,	2.6,	86.5,	50,	0.47	,12:01:10	,20-Dec-2013
205,	2.8,	86.5,	49,	0.52	,12:02:10	,20-Dec-2013
206,	3.3,	86.5,	49,	0.51	,12:03:10	,20-Dec-2013
207,	7.4,	86.5,	49,	0.66	,12:04:10	,20-Dec-2013
208,	40.8,	86.5,	49,	1.78	,12:05:10	,20-Dec-2013
209,	42.4,	86.4,	49,	2.15	,12:06:10	,20-Dec-2013
210,	21.5,	86.4,	49,	2.62	,12:07:10	,20-Dec-2013
211,	6.8,	86.4,	49,	1.42	,12:08:10	,20-Dec-2013
212,	3.0,	86.4,	49,	0.67	,12:09:10	,20-Dec-2013
213,	4.1,	86.4,	49,	0.67	,12:10:10	,20-Dec-2013
214,	3.8,	86.4,	49,	0.76	,12:11:10	,20-Dec-2013
215,	4.7,	86.4,	49,	0.99	,12:12:10	,20-Dec-2013
216,	6.4,	86.4,	49,	1.12	,12:13:10	,20-Dec-2013
217,	4.2,	86.3,	49,	0.82	,12:14:10	,20-Dec-2013
218,	3.6,	86.3,	49,	0.75	,12:15:10	,20-Dec-2013
219,	3.1,	86.3,	50,	0.49	,12:16:10	,20-Dec-2013
220,	3.5,	86.3,	49,	0.61	,12:17:10	,20-Dec-2013
221,	3.8,	86.3,	49,	0.61	,12:18:10	,20-Dec-2013
222,	2.8,	86.3,	49,	0.49	,12:19:10	,20-Dec-2013
223,	2.9,	86.3,	49,	0.52	,12:20:10	,20-Dec-2013
224,	2.9,	86.3,	49,	0.55	,12:21:10	,20-Dec-2013
225,	2.9,	86.3,	49,	0.51	,12:22:10	,20-Dec-2013
226,	2.7,	86.3,	49,	0.50	,12:23:10	,20-Dec-2013
227,	3.5,	86.3,	49,	0.44	,12:24:10	,20-Dec-2013
228,	3.2,	86.2,	49,	0.42	,12:25:10	,20-Dec-2013
229,	2.8,	86.3,	49,	0.50	,12:26:10	,20-Dec-2013
230,	3.2,	86.2,	49,	0.63	,12:27:10	,20-Dec-2013
231,	3.1,	86.2,	49,	0.73	,12:28:10	,20-Dec-2013
232,	3.2,	86.1,	49,	0.72	,12:29:10	,20-Dec-2013
233,	3.0,	86.2,	49,	0.58	,12:30:10	,20-Dec-2013
234,	3.1,	86.2,	49,	0.63	,12:31:10	,20-Dec-2013
235,	2.9,	86.1,	49,	0.59	,12:32:10	,20-Dec-2013
236,	2.8,	86.1,	49,	0.56	,12:33:10	,20-Dec-2013
237,	3.0,	86.1,	49,	0.49	,12:34:10	,20-Dec-2013
238,	2.8,	86.1,	49,	0.47	,12:35:10	,20-Dec-2013
239,	3.1,	86.1,	49,	0.49	,12:36:10	,20-Dec-2013
240,	2.9,	86.1,	49,	0.46	,12:37:10	,20-Dec-2013
241,	3.1,	86.0,	49,	0.46	,12:38:10	,20-Dec-2013
242,	3.3,	86.0,	49,	0.55	,12:39:10	,20-Dec-2013
243,	3.1,	86.0,	49,	0.61	,12:40:10	,20-Dec-2013
244,	3.0,	86.0,	50,	0.42	,12:41:10	,20-Dec-2013
245,	3.2,	86.0,	49,	0.43	,12:42:10	,20-Dec-2013
246,	2.8,	86.0,	49,	0.47	,12:43:10	,20-Dec-2013
247,	2.8,	86.0,	49,	0.61	,12:44:10	,20-Dec-2013
248,	2.8,	86.0,	49,	0.63	,12:45:10	,20-Dec-2013
249,	2.5,	86.0,	49,	0.50	,12:46:10	,20-Dec-2013
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251,	2.7,	85.9,	49,	0.52	,12:48:10	,20-Dec-2013
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253,	3.0,	85.9,	50,	0.58	,12:50:10	,20-Dec-2013
254,	2.5,	85.9,	50,	0.42	,12:51:10	,20-Dec-2013
255,	2.6,	85.9,	49,	0.45	,12:52:10	,20-Dec-2013
256,	2.6,	85.9,	50,	0.43	,12:53:10	,20-Dec-2013
257,	2.7,	85.9,	50,	0.46	,12:54:10	,20-Dec-2013
258,	2.7,	85.9,	50,	0.50	,12:55:10	,20-Dec-2013
259,	3.1,	85.9,	50,	0.47	,12:56:10	,20-Dec-2013
260,	2.8,	85.8,	50,	0.59	,12:57:10	,20-Dec-2013
261,	2.4,	85.8,	50,	0.43	,12:58:10	,20-Dec-2013
262,	2.7,	85.8,	50,	0.45	,12:59:10	,20-Dec-2013

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265,	2.8,	85.7,	50,	0.51	,13:02:10	,20-Dec-2013
266,	2.5,	85.8,	50,	0.45	,13:03:10	,20-Dec-2013
267,	2.6,	85.8,	50,	0.43	,13:04:10	,20-Dec-2013
268,	2.7,	85.8,	50,	0.45	,13:05:10	,20-Dec-2013
269,	2.7,	85.7,	50,	0.46	,13:06:10	,20-Dec-2013
270,	2.9,	85.7,	50,	0.49	,13:07:10	,20-Dec-2013
271,	2.6,	85.8,	50,	0.44	,13:08:10	,20-Dec-2013
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274,	3.6,	85.7,	49,	0.44	,13:11:10	,20-Dec-2013
275,	3.6,	85.7,	50,	0.47	,13:12:10	,20-Dec-2013
276,	4.8,	85.7,	50,	0.61	,13:13:10	,20-Dec-2013
277,	3.1,	85.7,	49,	0.54	,13:14:10	,20-Dec-2013
278,	4.0,	85.6,	49,	0.54	,13:15:10	,20-Dec-2013
279,	3.3,	85.6,	49,	0.51	,13:16:10	,20-Dec-2013
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283,	3.1,	85.6,	49,	0.43	,13:20:10	,20-Dec-2013
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287,	2.8,	85.6,	50,	0.43	,13:24:10	,20-Dec-2013
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290,	2.4,	85.6,	50,	0.51	,13:27:10	,20-Dec-2013
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306,	11.9,	85.4,	50,	1.96	,13:43:10	,20-Dec-2013
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325,	2.5,	85.3,	51,	0.42	,14:02:10	,20-Dec-2013
326,	2.5,	85.4,	51,	0.41	,14:03:10	,20-Dec-2013

327,	2.7,	85.4,	51,	0.50	,14:04:10	,20-Dec-2013
328,	3.2,	85.3,	51,	0.41	,14:05:10	,20-Dec-2013
329,	3.6,	85.3,	51,	0.42	,14:06:10	,20-Dec-2013
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334,	3.2,	85.2,	51,	0.39	,14:11:10	,20-Dec-2013
335,	3.0,	85.2,	51,	0.44	,14:12:10	,20-Dec-2013
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337,	4.7,	85.2,	51,	0.47	,14:14:10	,20-Dec-2013
338,	4.8,	85.2,	51,	0.39	,14:15:10	,20-Dec-2013
339,	4.0,	85.2,	51,	0.46	,14:16:10	,20-Dec-2013
340,	3.8,	85.2,	51,	0.49	,14:17:10	,20-Dec-2013
341,	3.6,	85.2,	51,	0.48	,14:18:10	,20-Dec-2013
342,	3.8,	85.2,	51,	0.42	,14:19:10	,20-Dec-2013
343,	5.6,	85.2,	51,	0.48	,14:20:10	,20-Dec-2013
344,	6.6,	85.2,	51,	0.41	,14:21:10	,20-Dec-2013
345,	5.7,	85.2,	51,	0.42	,14:22:10	,20-Dec-2013
346,	4.0,	85.2,	51,	0.42	,14:23:10	,20-Dec-2013
347,	4.8,	85.2,	51,	0.42	,14:24:10	,20-Dec-2013
348,	4.4,	85.1,	51,	0.37	,14:25:10	,20-Dec-2013
349,	4.5,	85.1,	51,	0.44	,14:26:10	,20-Dec-2013
350,	4.0,	85.1,	51,	0.46	,14:27:10	,20-Dec-2013
351,	3.7,	85.1,	51,	0.47	,14:28:10	,20-Dec-2013
352,	3.2,	85.1,	51,	0.46	,14:29:10	,20-Dec-2013
353,	3.5,	85.1,	51,	0.40	,14:30:10	,20-Dec-2013
354,	2.9,	85.1,	51,	0.45	,14:31:10	,20-Dec-2013
355,	2.7,	85.1,	51,	0.42	,14:32:10	,20-Dec-2013
356,	2.7,	85.1,	51,	0.41	,14:33:10	,20-Dec-2013
357,	2.9,	85.1,	51,	0.60	,14:34:10	,20-Dec-2013
358,	2.4,	85.0,	51,	0.46	,14:35:10	,20-Dec-2013
359,	2.4,	85.0,	51,	0.42	,14:36:10	,20-Dec-2013
360,	2.2,	85.0,	51,	0.37	,14:37:10	,20-Dec-2013
361,	2.5,	85.0,	51,	0.40	,14:38:10	,20-Dec-2013
362,	2.4,	85.0,	51,	0.36	,14:39:10	,20-Dec-2013
363,	2.2,	85.0,	51,	0.38	,14:40:10	,20-Dec-2013
364,	2.4,	85.0,	51,	0.39	,14:41:10	,20-Dec-2013
365,	2.7,	85.0,	51,	0.41	,14:42:10	,20-Dec-2013
366,	2.5,	85.0,	51,	0.46	,14:43:10	,20-Dec-2013
367,	2.4,	85.0,	51,	0.42	,14:44:10	,20-Dec-2013
368,	2.1,	85.0,	51,	0.44	,14:45:10	,20-Dec-2013
369,	2.0,	84.9,	51,	0.43	,14:46:10	,20-Dec-2013
370,	2.2,	84.9,	51,	0.45	,14:47:10	,20-Dec-2013
371,	2.4,	84.9,	51,	0.50	,14:48:10	,20-Dec-2013
372,	2.5,	84.9,	51,	0.50	,14:49:10	,20-Dec-2013
373,	2.3,	84.9,	51,	0.47	,14:50:10	,20-Dec-2013
374,	2.2,	84.8,	51,	0.51	,14:51:10	,20-Dec-2013
375,	3.4,	84.8,	51,	0.76	,14:52:10	,20-Dec-2013
376,	2.2,	84.8,	51,	0.44	,14:53:10	,20-Dec-2013
377,	6.2,	84.8,	51,	0.45	,14:54:10	,20-Dec-2013
378,	20.0,	84.8,	51,	0.24	,14:55:10	,20-Dec-2013
379,	46.7,	84.8,	51,	0.22	,14:56:10	,20-Dec-2013
380,	69.1,	84.8,	51,	0.25	,14:57:10	,20-Dec-2013
381,	28.6,	84.8,	51,	0.28	,14:58:10	,20-Dec-2013
382,	37.0,	84.7,	51,	0.23	,14:59:10	,20-Dec-2013
383,	17.1,	84.7,	51,	0.23	,15:00:10	,20-Dec-2013
384,	15.6,	84.7,	51,	0.23	,15:01:10	,20-Dec-2013
385,	8.8,	84.7,	51,	0.25	,15:02:10	,20-Dec-2013
386,	6.9,	84.7,	52,	0.34	,15:03:10	,20-Dec-2013
387,	3.9,	84.7,	51,	0.38	,15:04:10	,20-Dec-2013
388,	2.9,	84.7,	51,	0.42	,15:05:10	,20-Dec-2013
389,	2.8,	84.7,	51,	0.44	,15:06:10	,20-Dec-2013
390,	2.6,	84.7,	51,	0.44	,15:07:10	,20-Dec-2013

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391,	2.4,	84.7,	51,	0.38	,15:08:10	,20-Dec-2013
392,	2.4,	84.7,	51,	0.37	,15:09:10	,20-Dec-2013
393,	2.4,	84.7,	51,	0.38	,15:10:10	,20-Dec-2013
394,	2.5,	84.7,	51,	0.38	,15:11:10	,20-Dec-2013
395,	2.5,	84.7,	51,	0.36	,15:12:10	,20-Dec-2013
396,	2.4,	84.7,	51,	0.38	,15:13:10	,20-Dec-2013
397,	2.7,	84.7,	51,	0.44	,15:14:10	,20-Dec-2013
398,	3.5,	84.7,	51,	0.79	,15:15:10	,20-Dec-2013
399,	2.5,	84.7,	51,	0.46	,15:16:10	,20-Dec-2013
400,	2.3,	84.7,	51,	0.47	,15:17:10	,20-Dec-2013
401,	2.6,	84.7,	51,	0.51	,15:18:10	,20-Dec-2013
402,	4.3,	84.6,	51,	0.92	,15:19:10	,20-Dec-2013
403,	2.9,	84.6,	51,	0.60	,15:20:10	,20-Dec-2013
404,	2.3,	84.6,	51,	0.47	,15:21:10	,20-Dec-2013
405,	2.4,	84.6,	51,	0.46	,15:22:10	,20-Dec-2013
406,	2.4,	84.6,	51,	0.40	,15:23:10	,20-Dec-2013
407,	2.5,	84.6,	51,	0.45	,15:24:10	,20-Dec-2013
408,	2.5,	84.6,	51,	0.47	,15:25:10	,20-Dec-2013
409,	2.3,	84.6,	51,	0.46	,15:26:10	,20-Dec-2013
410,	2.3,	84.5,	51,	0.42	,15:27:10	,20-Dec-2013
411,	2.5,	84.6,	51,	0.46	,15:28:10	,20-Dec-2013
412,	2.3,	84.5,	51,	0.48	,15:29:10	,20-Dec-2013
413,	2.2,	84.5,	51,	0.52	,15:30:10	,20-Dec-2013
414,	2.3,	84.5,	51,	0.50	,15:31:10	,20-Dec-2013
415,	2.3,	84.5,	51,	0.51	,15:32:10	,20-Dec-2013
416,	2.4,	84.5,	51,	0.45	,15:33:10	,20-Dec-2013
417,	2.3,	84.5,	51,	0.42	,15:34:10	,20-Dec-2013
418,	2.3,	84.5,	51,	0.44	,15:35:10	,20-Dec-2013
419,	2.3,	84.5,	51,	0.41	,15:36:10	,20-Dec-2013
420,	2.5,	84.5,	51,	0.42	,15:37:10	,20-Dec-2013
421,	2.2,	84.5,	51,	0.40	,15:38:10	,20-Dec-2013
422,	2.7,	84.5,	51,	0.40	,15:39:10	,20-Dec-2013
423,	2.4,	84.5,	51,	0.43	,15:40:10	,20-Dec-2013
424,	2.2,	84.5,	51,	0.41	,15:41:10	,20-Dec-2013
425,	2.8,	84.5,	51,	0.44	,15:42:10	,20-Dec-2013
426,	2.4,	84.5,	51,	0.46	,15:43:10	,20-Dec-2013
427,	2.9,	84.5,	51,	0.50	,15:44:10	,20-Dec-2013
428,	3.7,	84.5,	51,	0.64	,15:45:10	,20-Dec-2013
429,	4.3,	84.5,	51,	0.65	,15:46:10	,20-Dec-2013
430,	4.1,	84.5,	51,	0.66	,15:47:10	,20-Dec-2013
431,	3.8,	84.5,	51,	0.66	,15:48:10	,20-Dec-2013
432,	3.4,	84.4,	51,	0.54	,15:49:10	,20-Dec-2013
433,	3.0,	84.4,	51,	0.49	,15:50:10	,20-Dec-2013
434,	2.7,	84.5,	51,	0.44	,15:51:10	,20-Dec-2013
435,	2.5,	84.4,	50,	0.42	,15:52:10	,20-Dec-2013
436,	2.5,	84.4,	51,	0.42	,15:53:10	,20-Dec-2013
437,	2.5,	84.4,	50,	0.44	,15:54:10	,20-Dec-2013
438,	2.5,	84.4,	50,	0.44	,15:55:10	,20-Dec-2013
439,	2.3,	84.4,	50,	0.42	,15:56:10	,20-Dec-2013
440,	2.3,	84.4,	50,	0.40	,15:57:10	,20-Dec-2013
441,	2.1,	84.3,	50,	0.38	,15:58:10	,20-Dec-2013
442,	2.3,	84.3,	50,	0.36	,15:59:10	,20-Dec-2013
443,	2.7,	84.3,	50,	0.41	,16:00:10	,20-Dec-2013

(MASS)ug/m3
Temp (F)
Humidity (RH%)
Diameter (nm)
600
550
500
450
400
350
300
250
200
150
100
50
0
12/20/13 10:00:00
12/20/13 11:00:00
12/20/13 12:00:00
12/20/13 13:00:00
12/20/13 14:00:00
12/20/13 15:00:00
12/20/13 16:00:00

DataRAM 4 SN# D787 Dev# 0 Tag# 0 start: 20-Dec-2013 09:08:10 interval: 00:01:00
MASS)ug/m3
Temp (F)
Humidity (RH%)
Diameter (nm)
85
80
75
70
65
60
55
50
45
40
35
30
25
20
15
10
5
0
12/20/13 10:00:00
12/20/13 11:00:00
12/20/13 12:00:00
12/20/13 13:00:00
12/20/13 14:00:00
12/20/13 15:00:00
12/20/13 16:00:00

DataRAM-4 SN# D7627 Dav# 0 Tag# 9 start 20-Dec-2013 09:08:10 interval: 00:01:00
(MASS)ug/m3
Temp (F)
Humidity (RH%)
Diameter (nm)
55
50
45
40
35
30
25
20
15
10
5
0
12/20/13 10:00:00
12/20/13 11:00:00
12/20/13 12:00:00
12/20/13 13:00:00
12/20/13 14:00:00
12/20/13 15:00:00
12/20/13 16:00:00

DataRAM 4 SN# D787 Dev# 0 Tag# 9 start: 20-Dec-2013 09:08:10 interval: 00:01:00
(MASS)ug/m3
Temp (F)
Humidity (RH%)
Diameter (nm)
4,000
3,800
3,600
3,400
3,200
3,000
2,800
2,600
2,400
2,200
2,000
1,800
1,600
1,400
1,200
1,000
800
600
400
200
0
12/20/13 10:00:00
12/20/13 11:00:00
12/20/13 12:00:00
12/20/13 13:00:00
12/20/13 14:00:00
12/20/13 15:00:00
12/20/13 16:00:00

ALTOL
Environmental Services, Inc.

P.O Box 359 Mercedita, PR 00715-0359

December 30, 2013

Mr. Benjamin Cintrón
Project Manager
Homeca Recycling

RE: AIR PARTICULATE MONITORING REPORT AT PUERTO RICO OLEFINES, PEÑUELAS, PR.

Dear Mr. Cintrón:

Altol Environmental Services, Inc., submits for your review the results obtained during the air particulates monitoring. These were performed following Altol operational procedures.

Altol's technician installed and removed the Data Ram-4 COM equipment from the Towers located at Puerto Rico Olefines in Peñuelas, PR. The equipment collected data every minute for approximately a eight (8) hour period. Also, during the installation and removal of the equipment the wind direction, wind velocity, weather and other conditions were documented as supplementary information. The wind velocity was measured using the Kestrell 4000 equipment.

Appendix 1 presents **Table 1** which summarizes the results of information collected at the towers. The data collected during this period indicated levels of particulate material (PM_{10}) that do not exceed the regulated limits of the United States Environmental Protection Agency (USEPA) of 150 $\mu g/m^3$ (40 CFR part 50) (**Appendix 2**). The information collected from each tower is presented in graphics in terms of mass and dates (**Appendix 3**).

The following Appendices present the tables and graphics results for mass ($\mu g/m^3$), temperature (^oF), relative humidity (RH) and diameter (nm), obtained from each Data Ram-4 COM equipment:

- **Appendix 4**, correspond to Tower # 1, December 23, 2013.
- **Appendix 5**, correspond to Tower # 2, December 23, 2013.

If you need any further information contact us at your earliest convenience at (787)-835-4242 or (787) 430-6141.

Statement of Authenticity,
Altol Environmental Services, Inc.

Certify that the results are complete and accurate

Cordially,

Carlos E. Ocasio Feliciano
Environmental Higiene

APPENDIX 5
TOWER #2 AIR PARTICULATE MONITORING

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TABLE 1. FUGITIVE DUSTS SAMPLING AND ENVIRONMENTAL CONDITIONS

Air Monitoring Date	Air Monitoring Tower	Latitude and Longitude	Equipment Data Ram-4 COM						Equipment Kestrell Model 4000		Field Observation				Sampling Personnel
			Equipment Model/ID#	Start Time	Finish Time	Avg Mass ($\mu g/m^3$)	Regulatory Limits ($\mu g/m3$)	Avg Diameter (nm)	Wind Velocity Start Time (mph)	Wind Velocity Finish Time (mph)	Weather Condition Start Time	Weather Condition Finish Time	Wind Direction Start Time	Wind Direction Finish Time	
12/23/2013 12/23/2013	1		DR4/D788	7:24	14:43	1.28	150	0.41	3.3	5.4	Cloudy	Cloudy	North West	North West	JS
12/23/2013 12/23/2013	2		DR4/D787	7:47	16:00	1.66	150	0.44	4.2	4.8	Cloudy	Cloudy	North West	North West	JS

Standard Limit = 150 $\mu g/m^3$

Leyend

N/A - Not Aplicable
RV - Robert Velazquez
JRR- Jaime Rivera Rivera
JR- Juan Rivera
JC- Jose Cruz
NH Nehemias Hernandez
JS- José Santos

Towers Location:

Tower #1: PR-503
Tower #2: Disposal Area 3A
Tower #3: Access Road #t
Tower #4: Laboratory Area

ALTOL
Environmental Services, Inc.

Statement of Authenticity,
Certify that the results are complete and accurate

Cordially,

Carlos E. Ocasio Feliciano
Environmental Higiene

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APPENDIX 1
FUGITIVE DUSTS SAMPLING AND TEST RESULTS

National Ambient Air Quality Standards (NAAQS)

The Clean Air Act, which was last amended in 1990, requires EPA to set National Ambient Air Quality Standards (40 CFR part 50) for pollutants considered harmful to public health and the environment. The Clean Air Act established two types of national air quality standards. *Primary standards* set limits to protect public health, including the health of "sensitive" populations such as asthmatics, children, and the elderly. *Secondary standards* set limits to protect public welfare, including protection against decreased visibility, damage to animals, crops, vegetation, and buildings.

The EPA Office of Air Quality Planning and Standards (OAQPS) has set National Ambient Air Quality Standards for six principal pollutants, which are called "criteria" pollutants. They are listed below. Units of measure for the standards are parts per million (ppm) by volume, milligrams per cubic meter of air (mg/m^3), and micrograms per cubic meter of air ($\mu g/m^3$).

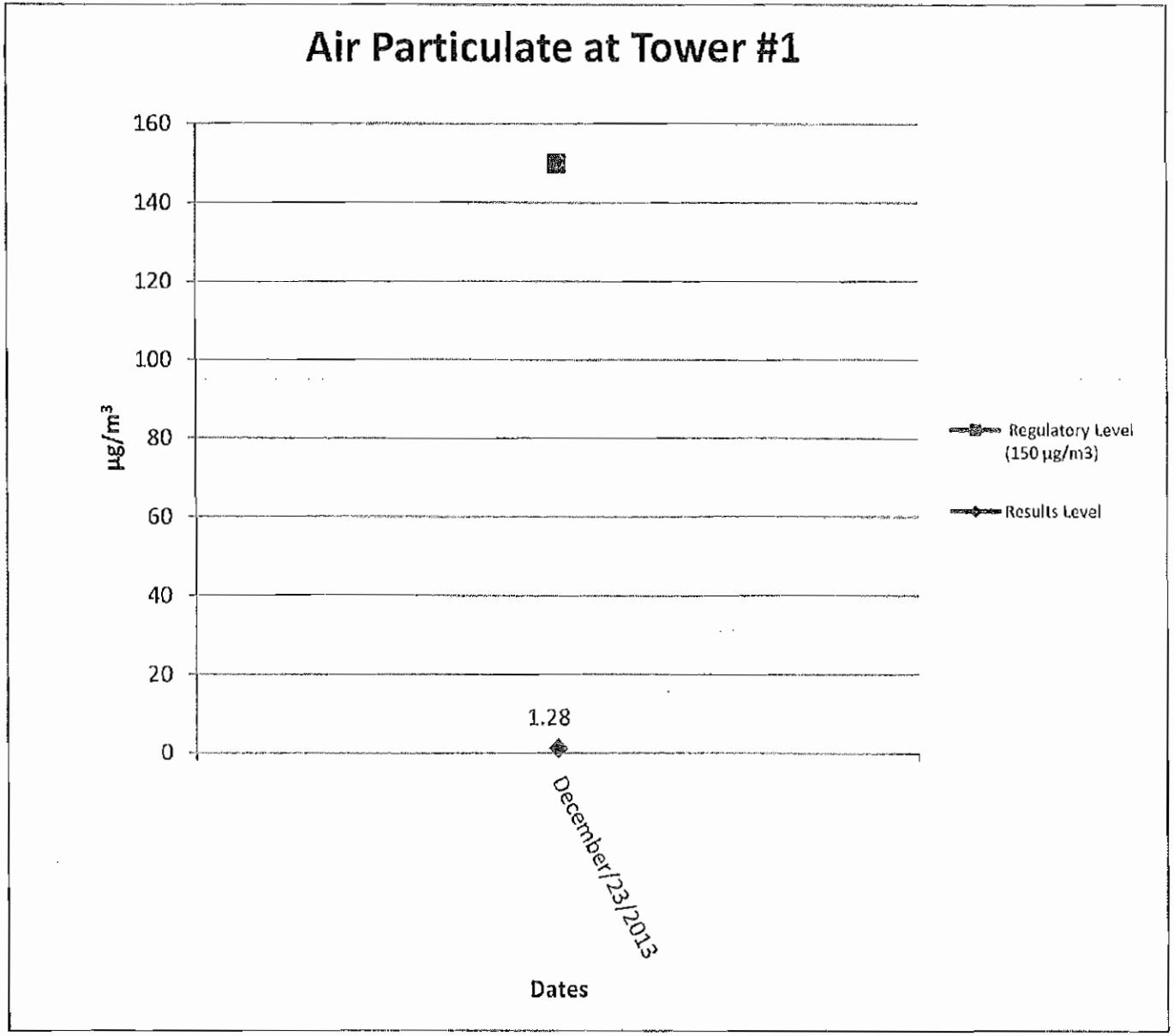
National Ambient Air Quality Standards

	Primary Standards		Secondary Standards	
Pollutant	Level	Averaging Time	Level	Averaging Time
Carbon Monoxide	9 ppm ($10\ mg/m^3$)	8-hour [1]	None	
	35 ppm ($40\ mg/m^3$)	1-hour [1]		
Lead	0.15 $\mu g/m^3$ [2]	Rolling 3-Month Average	Same as Primary	
	1.5 $\mu g/m^3$	Quarterly Average	Same as Primary	
Nitrogen Dioxide	0.053 ppm ($100\ \mu g/m^3$)	Annual (Arithmetic Mean)	Same as Primary	
Particulate Matter (PM_{10})	150 $\mu g/m^3$	24-hour [3]	Same as Primary	
Particulate Matter ($PM_{2.5}$)	15.0 $\mu g/m^3$	Annual [4] (Arithmetic Mean)	Same as Primary	
	35 $\mu g/m^3$	24-hour [5]	Same as Primary	
Ozone	0.075 ppm (2008 std)	8-hour [6]	Same as Primary	
	0.08 ppm (1997 std)	8-hour [7]	Same as Primary	
	0.12 ppm	1-hour [8] (Applies only in limited areas)	Same as Primary	
Sulfur Dioxide	0.03 ppm	Annual (Arithmetic Mean)	0.5 ppm ($1300\ \mu g/m^3$)	3-hour [1]
	0.14 ppm	24-hour [1]		

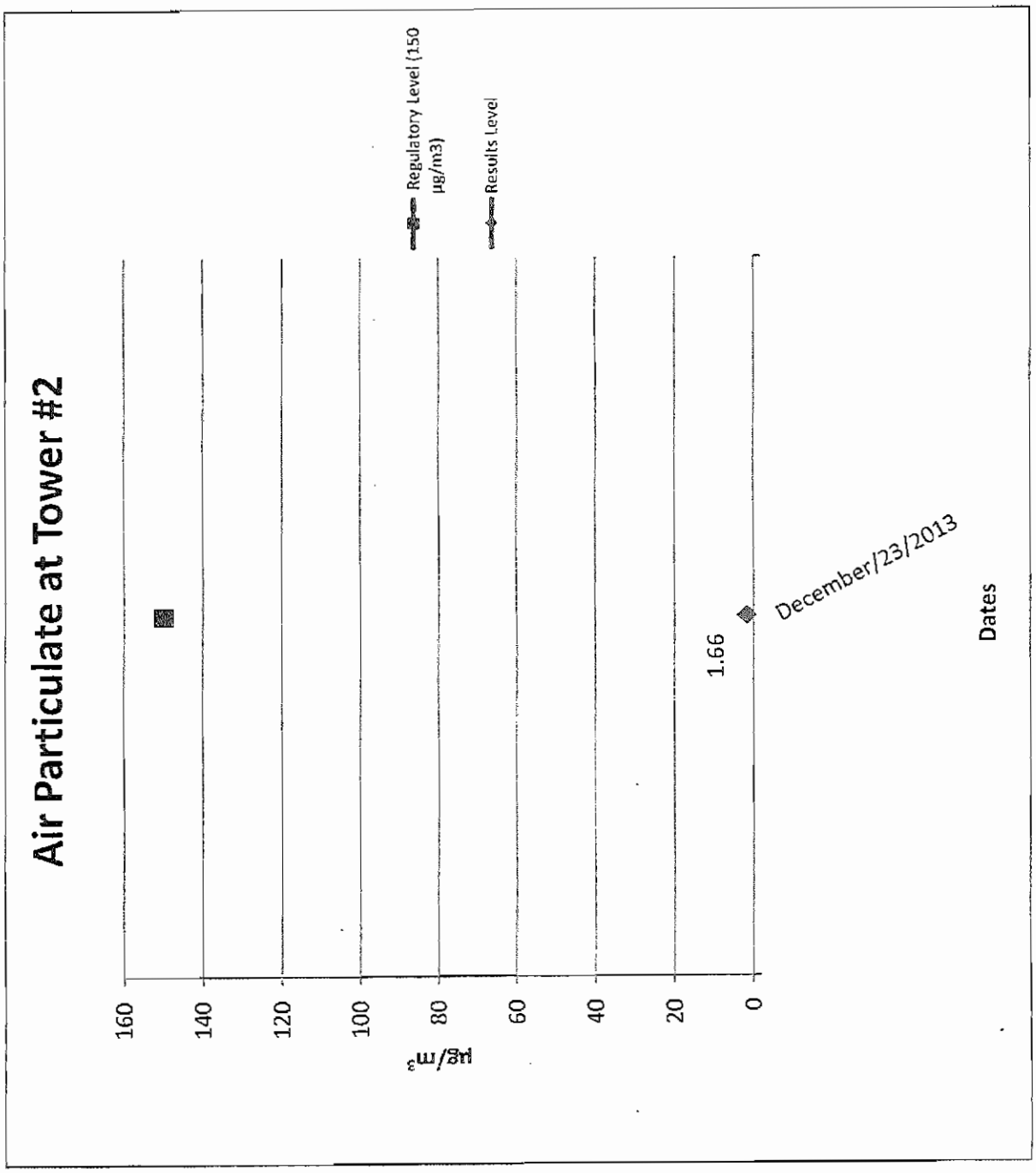
[1] Not to be exceeded more than once per year.
[2] Final rule signed October 15, 2008.
[3] Not to be exceeded more than once per year on average over 3 years.
[4] To attain this standard, the 3-year average of the weighted annual mean PM2.5 concentrations from single or multiple community-oriented monitors must not exceed 15.0 µg/m3.
[5] To attain this standard, the 3-year average of the 98th percentile of 24-hour concentrations at each population-oriented monitor within an area must not exceed 35 µg/m3 (effective December 17, 2006).
[6] To attain this standard, the 3-year average of the fourth-highest daily maximum 8-hour average ozone concentrations measured at each monitor within an area over each year must not exceed 0.075 ppm. (effective May 27, 2008)
[7] (a) To attain this standard, the 3-year average of the fourth-highest daily maximum 8-hour average ozone concentrations measured at each monitor within an area over each year must not exceed 0.08 ppm.
(b) The 1997 standard—and the implementation rules for that standard—will remain in place for implementation purposes as EPA undertakes rulemaking to address the transition from the 1997 ozone standard to the 2008 ozone standard.
[8] (a) The standard is attained when the expected number of days per calendar year with maximum hourly average concentrations above 0.12 ppm is ≤ 1.
(b) As of June 15, 2005 EPA revoked the 1-hour ozone standard in all areas except the 8-hour ozone nonattainment Early Action Compact (EAC) Areas.

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APPENDIX 2
USEPA REGULATION PARAMETER



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Air Particulate at Tower #2
Regulatory Level (150 µg/m3)
Results Level
µg/m³
160
140
120
100
80
60
40
20
0
1.66
December/23/2013
Dates

APPENDIX 3
GRAPHICS OF MASS vs DATE

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"Model Number", "DataRAM 4 ", 106
"Serial no. ", "D788 "
"Device no. ", 1
"Tag Number ", 61
"Start Time ", 07:23:15
"Start Date ", 23-Dec-2013
"Log Period ", 00:01:00
"Number ", 440
"CalFactor ", 1.000000
"Unit ", 0
"Unit Name ", "(MASS)ug/m3"
"SIZE_CORRECT", "ENABLED"
"TEMPUNITS ", F
"Max MASS ", 22.439800
"Max MASS @ ", 332 ,12:55:15 ,23-Dec-2013
"Avg MASS ", 1.276963
"Max Diam ", 2.392566
"Max Diam @ ", 331 ,12:54:15 ,23-Dec-2013
"Avg Diam ", 0.407789
"ALARM ", "DISABLED"
"ALARM_LEVEL ", 0.0
"AUTO_ZERO ", "DISABLED"
"AZ INTERVAL ", 1
"Errors ", 0000
record,"(MASS)ug/m3", Temp, RHumidity, Diameter

1,	4.6,	73.8,	52,	0.4447	,07:24:15 ,23-Dec-2013
2,	2.6,	73.8,	55,	0.4174	,07:25:15 ,23-Dec-2013
3,	2.2,	74.0,	57,	0.4278	,07:26:15 ,23-Dec-2013
4,	1.9,	74.1,	59,	0.4041	,07:27:15 ,23-Dec-2013
5,	2.1,	74.3,	60,	0.4827	,07:28:15 ,23-Dec-2013
6,	1.8,	74.4,	61,	0.4525	,07:29:15 ,23-Dec-2013
7,	1.8,	74.5,	61,	0.4074	,07:30:15 ,23-Dec-2013
8,	1.5,	74.6,	62,	0.3835	,07:31:15 ,23-Dec-2013
9,	1.5,	74.7,	62,	0.3815	,07:32:15 ,23-Dec-2013
10,	1.6,	74.9,	63,	0.3829	,07:33:15 ,23-Dec-2013
11,	1.5,	75.1,	63,	0.3810	,07:34:15 ,23-Dec-2013
12,	1.6,	75.2,	63,	0.3853	,07:35:15 ,23-Dec-2013
13,	1.6,	75.4,	63,	0.3707	,07:36:15 ,23-Dec-2013
14,	1.4,	75.5,	63,	0.3716	,07:37:15 ,23-Dec-2013
15,	1.4,	75.7,	63,	0.3704	,07:38:15 ,23-Dec-2013
16,	1.4,	76.0,	63,	0.3715	,07:39:15 ,23-Dec-2013
17,	1.2,	76.2,	63,	0.3666	,07:40:15 ,23-Dec-2013
18,	1.2,	76.3,	63,	0.3654	,07:41:15 ,23-Dec-2013
19,	1.2,	76.5,	63,	0.3674	,07:42:15 ,23-Dec-2013
20,	1.1,	76.7,	63,	0.3627	,07:43:15 ,23-Dec-2013
21,	1.0,	76.9,	63,	0.3620	,07:44:15 ,23-Dec-2013
22,	1.3,	77.1,	63,	0.3694	,07:45:15 ,23-Dec-2013
23,	1.1,	77.3,	63,	0.3641	,07:46:15 ,23-Dec-2013
24,	1.2,	77.5,	63,	0.3746	,07:47:15 ,23-Dec-2013
25,	1.1,	77.7,	63,	0.3774	,07:48:15 ,23-Dec-2013
26,	1.3,	77.9,	63,	0.3960	,07:49:15 ,23-Dec-2013
27,	1.2,	78.2,	62,	0.4163	,07:50:15 ,23-Dec-2013
28,	1.1,	78.4,	62,	0.4064	,07:51:15 ,23-Dec-2013
29,	1.2,	78.7,	62,	0.4119	,07:52:15 ,23-Dec-2013
30,	0.8,	79.0,	62,	0.3830	,07:53:15 ,23-Dec-2013
31,	1.5,	79.2,	62,	0.4142	,07:54:15 ,23-Dec-2013
32,	1.1,	79.5,	61,	0.4246	,07:55:15 ,23-Dec-2013
33,	1.2,	79.8,	61,	0.4509	,07:56:15 ,23-Dec-2013
34,	1.0,	80.0,	61,	0.3966	,07:57:15 ,23-Dec-2013
35,	1.4,	80.3,	61,	0.4413	,07:58:15 ,23-Dec-2013
36,	2.2,	80.7,	60,	0.4893	,07:59:15 ,23-Dec-2013
37,	2.8,	80.9,	60,	0.4327	,08:00:15 ,23-Dec-2013
38,	2.3,	81.2,	59,	0.4744	,08:01:15 ,23-Dec-2013
39,	2.0,	81.5,	59,	0.4060	,08:02:15 ,23-Dec-2013

40,	1.4,	81.7,	59,	0.4110	,08:03:15	,23-Dec-2013
41,	1.6,	82.0,	59,	0.4039	,08:04:15	,23-Dec-2013
42,	1.7,	82.2,	58,	0.4031	,08:05:15	,23-Dec-2013
43,	1.2,	82.5,	58,	0.3746	,08:06:15	,23-Dec-2013
44,	1.4,	82.8,	58,	0.3803	,08:07:15	,23-Dec-2013
45,	1.5,	83.0,	57,	0.3778	,08:08:15	,23-Dec-2013
46,	1.6,	83.3,	57,	0.3661	,08:09:15	,23-Dec-2013
47,	1.3,	83.6,	57,	0.3558	,08:10:15	,23-Dec-2013
48,	1.5,	83.9,	56,	0.3592	,08:11:15	,23-Dec-2013
49,	1.5,	84.2,	56,	0.3669	,08:12:15	,23-Dec-2013
50,	1.5,	84.5,	56,	0.3668	,08:13:15	,23-Dec-2013
51,	1.7,	84.8,	55,	0.3782	,08:14:15	,23-Dec-2013
52,	1.6,	85.0,	55,	0.3901	,08:15:15	,23-Dec-2013
53,	1.5,	85.3,	55,	0.4157	,08:16:15	,23-Dec-2013
54,	1.6,	85.6,	55,	0.4222	,08:17:15	,23-Dec-2013
55,	1.2,	85.9,	54,	0.4001	,08:18:15	,23-Dec-2013
56,	1.2,	86.2,	54,	0.3853	,08:19:15	,23-Dec-2013
57,	1.2,	86.4,	54,	0.3709	,08:20:15	,23-Dec-2013
58,	1.3,	86.8,	54,	0.3683	,08:21:15	,23-Dec-2013
59,	1.2,	87.0,	53,	0.3677	,08:22:15	,23-Dec-2013
60,	1.6,	87.3,	53,	0.3768	,08:23:15	,23-Dec-2013
61,	0.8,	87.7,	53,	0.3563	,08:24:15	,23-Dec-2013
62,	1.0,	88.0,	51,	0.3611	,08:25:15	,23-Dec-2013
63,	1.1,	88.2,	51,	0.3641	,08:26:15	,23-Dec-2013
64,	0.9,	88.5,	50,	0.3573	,08:27:15	,23-Dec-2013
65,	0.8,	88.8,	50,	0.3659	,08:28:15	,23-Dec-2013
66,	0.5,	89.0,	50,	0.3631	,08:29:15	,23-Dec-2013
67,	1.0,	89.2,	49,	0.3867	,08:30:15	,23-Dec-2013
68,	0.9,	89.5,	49,	0.3908	,08:31:15	,23-Dec-2013
69,	0.8,	89.7,	48,	0.3808	,08:32:15	,23-Dec-2013
70,	0.8,	90.0,	48,	0.3819	,08:33:15	,23-Dec-2013
71,	1.1,	90.2,	47,	0.3980	,08:34:15	,23-Dec-2013
72,	0.9,	90.5,	47,	0.3901	,08:35:15	,23-Dec-2013
73,	0.9,	90.7,	47,	0.3878	,08:36:15	,23-Dec-2013
74,	0.9,	90.9,	46,	0.3898	,08:37:15	,23-Dec-2013
75,	0.8,	91.1,	46,	0.3803	,08:38:15	,23-Dec-2013
76,	0.8,	91.4,	45,	0.3803	,08:39:15	,23-Dec-2013
77,	1.1,	91.5,	45,	0.3962	,08:40:15	,23-Dec-2013
78,	0.4,	91.7,	45,	0.3573	,08:41:15	,23-Dec-2013
79,	0.9,	91.8,	45,	0.3958	,08:42:15	,23-Dec-2013
80,	0.8,	91.9,	45,	0.3913	,08:43:15	,23-Dec-2013
81,	1.1,	92.1,	44,	0.4010	,08:44:15	,23-Dec-2013
82,	1.1,	92.2,	44,	0.3965	,08:45:15	,23-Dec-2013
83,	0.9,	92.3,	44,	0.3726	,08:46:15	,23-Dec-2013
84,	0.7,	92.4,	43,	0.3634	,08:47:15	,23-Dec-2013
85,	1.4,	92.5,	43,	0.3881	,08:48:15	,23-Dec-2013
86,	0.8,	92.6,	43,	0.3680	,08:49:15	,23-Dec-2013
87,	0.8,	92.7,	43,	0.3634	,08:50:15	,23-Dec-2013
88,	0.8,	92.8,	42,	0.3656	,08:51:15	,23-Dec-2013
89,	0.7,	93.0,	42,	0.3606	,08:52:15	,23-Dec-2013
90,	1.5,	93.1,	42,	0.3899	,08:53:15	,23-Dec-2013
91,	1.1,	93.1,	42,	0.3882	,08:54:15	,23-Dec-2013
92,	0.7,	93.2,	42,	0.3673	,08:55:15	,23-Dec-2013
93,	0.9,	93.3,	42,	0.3801	,08:56:15	,23-Dec-2013
94,	1.1,	93.3,	42,	0.3855	,08:57:15	,23-Dec-2013
95,	1.1,	93.4,	42,	0.3874	,08:58:15	,23-Dec-2013
96,	1.0,	93.5,	42,	0.3834	,08:59:15	,23-Dec-2013
97,	1.1,	93.6,	41,	0.3878	,09:00:15	,23-Dec-2013
98,	1.0,	93.7,	41,	0.3853	,09:01:15	,23-Dec-2013
99,	1.1,	93.8,	41,	0.3892	,09:02:15	,23-Dec-2013
100,	0.7,	93.9,	41,	0.3601	,09:03:15	,23-Dec-2013
101,	0.9,	94.1,	41,	0.3679	,09:04:15	,23-Dec-2013
102,	0.8,	94.1,	41,	0.3645	,09:05:15	,23-Dec-2013
103,	1.3,	94.2,	41,	0.3809	,09:06:15	,23-Dec-2013

104,	1.3,	94.4,	41,	0.3754	,09:07:15	,23-Dec-2013
105,	1.0,	94.5,	40,	0.3685	,09:08:15	,23-Dec-2013
106,	1.2,	94.6,	40,	0.3915	,09:09:15	,23-Dec-2013
107,	1.4,	94.7,	40,	0.4098	,09:10:15	,23-Dec-2013
108,	0.8,	94.9,	40,	0.3827	,09:11:15	,23-Dec-2013
109,	1.1,	95.0,	40,	0.3951	,09:12:15	,23-Dec-2013
110,	1.1,	95.0,	40,	0.3930	,09:13:15	,23-Dec-2013
111,	1.2,	95.1,	39,	0.4142	,09:14:15	,23-Dec-2013
112,	1.2,	95.1,	39,	0.4185	,09:15:15	,23-Dec-2013
113,	0.8,	95.2,	39,	0.3787	,09:16:15	,23-Dec-2013
114,	1.0,	95.3,	39,	0.3861	,09:17:15	,23-Dec-2013
115,	0.9,	95.4,	39,	0.3973	,09:18:15	,23-Dec-2013
116,	1.0,	95.5,	39,	0.4053	,09:19:15	,23-Dec-2013
117,	0.9,	95.5,	39,	0.3963	,09:20:15	,23-Dec-2013
118,	0.5,	95.5,	39,	0.3617	,09:21:15	,23-Dec-2013
119,	1.2,	95.6,	39,	0.3999	,09:22:15	,23-Dec-2013
120,	0.9,	95.7,	39,	0.3818	,09:23:15	,23-Dec-2013
121,	1.0,	95.8,	39,	0.3931	,09:24:15	,23-Dec-2013
122,	0.9,	95.8,	38,	0.3848	,09:25:15	,23-Dec-2013
123,	0.8,	95.9,	38,	0.3706	,09:26:15	,23-Dec-2013
124,	1.0,	95.9,	38,	0.3787	,09:27:15	,23-Dec-2013
125,	0.9,	96.0,	38,	0.3745	,09:28:15	,23-Dec-2013
126,	1.1,	96.0,	38,	0.3705	,09:29:15	,23-Dec-2013
127,	1.0,	96.1,	38,	0.3594	,09:30:15	,23-Dec-2013
128,	1.0,	96.1,	38,	0.3577	,09:31:15	,23-Dec-2013
129,	0.8,	96.2,	37,	0.3543	,09:32:15	,23-Dec-2013
130,	0.7,	96.2,	38,	0.3521	,09:33:15	,23-Dec-2013
131,	1.9,	96.2,	37,	0.4048	,09:34:15	,23-Dec-2013
132,	1.3,	96.3,	37,	0.4015	,09:35:15	,23-Dec-2013
133,	0.9,	96.4,	37,	0.3849	,09:36:15	,23-Dec-2013
134,	1.0,	96.4,	37,	0.3653	,09:37:15	,23-Dec-2013
135,	1.1,	96.4,	37,	0.3655	,09:38:15	,23-Dec-2013
136,	0.9,	96.3,	37,	0.3585	,09:39:15	,23-Dec-2013
137,	1.3,	96.1,	37,	0.3639	,09:40:15	,23-Dec-2013
138,	1.1,	96.0,	37,	0.3552	,09:41:15	,23-Dec-2013
139,	0.5,	95.9,	37,	0.3462	,09:42:15	,23-Dec-2013
140,	1.1,	95.8,	37,	0.3553	,09:43:15	,23-Dec-2013
141,	0.7,	95.6,	37,	0.3496	,09:44:15	,23-Dec-2013
142,	1.3,	95.4,	37,	0.3542	,09:45:15	,23-Dec-2013
143,	1.1,	95.3,	37,	0.3489	,09:46:15	,23-Dec-2013
144,	1.0,	95.2,	37,	0.3486	,09:47:15	,23-Dec-2013
145,	1.1,	95.1,	38,	0.3494	,09:48:15	,23-Dec-2013
146,	1.0,	95.0,	38,	0.3836	,09:49:15	,23-Dec-2013
147,	1.0,	94.9,	38,	0.3793	,09:50:15	,23-Dec-2013
148,	1.4,	94.9,	38,	0.4000	,09:51:15	,23-Dec-2013
149,	1.1,	94.9,	38,	0.3845	,09:52:15	,23-Dec-2013
150,	0.8,	95.0,	38,	0.3734	,09:53:15	,23-Dec-2013
151,	1.0,	95.0,	38,	0.3794	,09:54:15	,23-Dec-2013
152,	1.2,	95.1,	38,	0.3884	,09:55:15	,23-Dec-2013
153,	1.2,	95.2,	38,	0.3915	,09:56:15	,23-Dec-2013
154,	1.1,	95.3,	38,	0.3931	,09:57:15	,23-Dec-2013
155,	1.2,	95.3,	38,	0.4013	,09:58:15	,23-Dec-2013
156,	1.2,	95.4,	38,	0.4187	,09:59:15	,23-Dec-2013
157,	1.1,	95.4,	38,	0.4209	,10:00:15	,23-Dec-2013
158,	0.9,	95.5,	38,	0.4121	,10:01:15	,23-Dec-2013
159,	1.1,	95.6,	38,	0.4508	,10:02:15	,23-Dec-2013
160,	1.0,	95.7,	38,	0.4375	,10:03:15	,23-Dec-2013
161,	1.2,	95.7,	38,	0.4252	,10:04:15	,23-Dec-2013
162,	1.3,	95.8,	38,	0.4122	,10:05:15	,23-Dec-2013
163,	1.1,	95.8,	37,	0.4023	,10:06:15	,23-Dec-2013
164,	1.5,	95.7,	37,	0.4009	,10:07:15	,23-Dec-2013
165,	1.6,	95.6,	37,	0.3830	,10:08:15	,23-Dec-2013
166,	1.7,	95.4,	37,	0.4740	,10:09:15	,23-Dec-2013
167,	1.4,	95.1,	37,	0.4395	,10:10:15	,23-Dec-2013

168,	1.5,	95.0,	38,	0.4336	,10:11:15	,23-Dec-2013
169,	1.5,	94.7,	38,	0.4396	,10:12:15	,23-Dec-2013
170,	1.7,	94.5,	38,	0.5026	,10:13:15	,23-Dec-2013
171,	1.3,	94.4,	38,	0.4398	,10:14:15	,23-Dec-2013
172,	1.1,	94.3,	38,	0.4119	,10:15:15	,23-Dec-2013
173,	1.4,	94.3,	38,	0.4150	,10:16:15	,23-Dec-2013
174,	1.6,	94.2,	39,	0.4299	,10:17:15	,23-Dec-2013
175,	1.0,	94.2,	39,	0.3928	,10:18:15	,23-Dec-2013
176,	1.2,	94.2,	39,	0.4132	,10:19:15	,23-Dec-2013
177,	1.2,	94.3,	39,	0.3945	,10:20:15	,23-Dec-2013
178,	1.6,	94.4,	39,	0.4037	,10:21:15	,23-Dec-2013
179,	1.6,	94.5,	39,	0.4035	,10:22:15	,23-Dec-2013
180,	1.2,	94.6,	39,	0.3790	,10:23:15	,23-Dec-2013
181,	1.1,	94.9,	39,	0.3765	,10:24:15	,23-Dec-2013
182,	1.3,	95.0,	39,	0.3992	,10:25:15	,23-Dec-2013
183,	1.0,	95.2,	39,	0.4120	,10:26:15	,23-Dec-2013
184,	1.1,	95.4,	39,	0.4156	,10:27:15	,23-Dec-2013
185,	1.0,	95.5,	38,	0.4014	,10:28:15	,23-Dec-2013
186,	1.3,	95.7,	38,	0.3943	,10:29:15	,23-Dec-2013
187,	0.9,	95.8,	38,	0.3734	,10:30:15	,23-Dec-2013
188,	1.1,	95.9,	38,	0.3949	,10:31:15	,23-Dec-2013
189,	1.2,	96.0,	38,	0.4241	,10:32:15	,23-Dec-2013
190,	0.7,	96.1,	38,	0.3883	,10:33:15	,23-Dec-2013
191,	0.9,	96.2,	37,	0.3981	,10:34:15	,23-Dec-2013
192,	1.1,	96.3,	37,	0.3998	,10:35:15	,23-Dec-2013
193,	1.1,	96.4,	37,	0.4204	,10:36:15	,23-Dec-2013
194,	1.0,	96.4,	37,	0.4206	,10:37:15	,23-Dec-2013
195,	1.1,	96.5,	37,	0.4082	,10:38:15	,23-Dec-2013
196,	0.8,	96.6,	37,	0.3864	,10:39:15	,23-Dec-2013
197,	1.0,	96.6,	37,	0.3973	,10:40:15	,23-Dec-2013
198,	0.8,	96.7,	37,	0.3685	,10:41:15	,23-Dec-2013
199,	1.2,	96.7,	36,	0.3695	,10:42:15	,23-Dec-2013
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202,	1.0,	96.8,	36,	0.3584	,10:45:15	,23-Dec-2013
203,	0.7,	96.9,	36,	0.3535	,10:46:15	,23-Dec-2013
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205,	1.1,	97.0,	36,	0.3635	,10:48:15	,23-Dec-2013
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207,	0.3,	97.2,	36,	0.3455	,10:50:15	,23-Dec-2013
208,	0.7,	97.3,	36,	0.3569	,10:51:15	,23-Dec-2013
209,	0.6,	97.3,	36,	0.3548	,10:52:15	,23-Dec-2013
210,	1.0,	97.3,	36,	0.3676	,10:53:15	,23-Dec-2013
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212,	0.5,	97.3,	36,	0.3534	,10:55:15	,23-Dec-2013
213,	1.2,	97.3,	36,	0.3731	,10:56:15	,23-Dec-2013
214,	1.2,	97.3,	36,	0.4213	,10:57:15	,23-Dec-2013
215,	0.7,	97.3,	36,	0.3779	,10:58:15	,23-Dec-2013
216,	0.8,	97.2,	36,	0.3766	,10:59:15	,23-Dec-2013
217,	0.7,	97.1,	36,	0.3608	,11:00:15	,23-Dec-2013
218,	0.7,	97.0,	36,	0.3640	,11:01:15	,23-Dec-2013
219,	0.4,	96.9,	36,	0.3530	,11:02:15	,23-Dec-2013
220,	0.6,	96.8,	36,	0.3579	,11:03:15	,23-Dec-2013
221,	1.0,	96.8,	36,	0.3718	,11:04:15	,23-Dec-2013
222,	1.6,	96.7,	36,	0.4089	,11:05:15	,23-Dec-2013
223,	1.0,	96.6,	36,	0.4251	,11:06:15	,23-Dec-2013
224,	0.6,	96.5,	36,	0.3842	,11:07:15	,23-Dec-2013
225,	0.8,	96.4,	36,	0.4069	,11:08:15	,23-Dec-2013
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230,	1.0,	96.8,	36,	0.3495	,11:13:15	,23-Dec-2013
231,	0.9,	96.9,	35,	0.3491	,11:14:15	,23-Dec-2013

232,	0.8,	97.0,	35,	0.3471	,11:15:15	,23-Dec-2013
233,	1.0,	97.0,	35,	0.3517	,11:16:15	,23-Dec-2013
234,	1.3,	97.1,	35,	0.3541	,11:17:15	,23-Dec-2013
235,	1.0,	97.2,	35,	0.3511	,11:18:15	,23-Dec-2013
236,	0.8,	97.3,	35,	0.3482	,11:19:15	,23-Dec-2013
237,	0.8,	97.3,	35,	0.3486	,11:20:15	,23-Dec-2013
238,	0.8,	97.4,	35,	0.3477	,11:21:15	,23-Dec-2013
239,	0.5,	97.5,	34,	0.3443	,11:22:15	,23-Dec-2013
240,	0.8,	97.7,	34,	0.3481	,11:23:15	,23-Dec-2013
241,	0.5,	97.8,	34,	0.3444	,11:24:15	,23-Dec-2013
242,	0.6,	97.9,	34,	0.3457	,11:25:15	,23-Dec-2013
243,	0.6,	98.0,	34,	0.3458	,11:26:15	,23-Dec-2013
244,	1.0,	98.1,	34,	0.3507	,11:27:15	,23-Dec-2013
245,	0.9,	98.2,	34,	0.3499	,11:28:15	,23-Dec-2013
246,	1.0,	98.2,	34,	0.3510	,11:29:15	,23-Dec-2013
247,	0.6,	98.1,	34,	0.3469	,11:30:15	,23-Dec-2013
248,	0.4,	98.1,	34,	0.3443	,11:31:15	,23-Dec-2013
249,	0.5,	98.0,	34,	0.3447	,11:32:15	,23-Dec-2013
250,	1.0,	97.9,	34,	0.3521	,11:33:15	,23-Dec-2013
251,	0.8,	97.8,	34,	0.3489	,11:34:15	,23-Dec-2013
252,	0.7,	97.7,	34,	0.3473	,11:35:15	,23-Dec-2013
253,	0.9,	97.6,	35,	0.3493	,11:36:15	,23-Dec-2013
254,	1.3,	97.5,	35,	0.3880	,11:37:15	,23-Dec-2013
255,	0.8,	97.5,	35,	0.3768	,11:38:15	,23-Dec-2013
256,	0.6,	97.5,	35,	0.3675	,11:39:15	,23-Dec-2013
257,	0.7,	97.5,	35,	0.3727	,11:40:15	,23-Dec-2013
258,	0.8,	97.4,	35,	0.3492	,11:41:15	,23-Dec-2013
259,	0.7,	97.4,	35,	0.3400	,11:42:15	,23-Dec-2013
260,	0.5,	97.3,	35,	0.3393	,11:43:15	,23-Dec-2013
261,	0.7,	97.3,	35,	0.3401	,11:44:15	,23-Dec-2013
262,	0.8,	97.3,	35,	0.3404	,11:45:15	,23-Dec-2013
263,	0.8,	97.2,	35,	0.3407	,11:46:15	,23-Dec-2013
264,	0.8,	97.1,	35,	0.3408	,11:47:15	,23-Dec-2013
265,	1.0,	97.0,	35,	0.3411	,11:48:15	,23-Dec-2013
266,	0.7,	96.8,	35,	0.3402	,11:49:15	,23-Dec-2013
267,	0.9,	96.7,	35,	0.3409	,11:50:15	,23-Dec-2013
268,	0.9,	96.4,	35,	0.3409	,11:51:15	,23-Dec-2013
269,	0.9,	96.2,	35,	0.3412	,11:52:15	,23-Dec-2013
270,	0.7,	96.1,	35,	0.3403	,11:53:15	,23-Dec-2013
271,	0.7,	95.9,	35,	0.3405	,11:54:15	,23-Dec-2013
272,	0.8,	95.7,	36,	0.3405	,11:55:15	,23-Dec-2013
273,	1.1,	95.4,	36,	0.3417	,11:56:15	,23-Dec-2013
274,	0.8,	95.3,	36,	0.3406	,11:57:15	,23-Dec-2013
275,	1.3,	95.1,	36,	0.3551	,11:58:15	,23-Dec-2013
276,	1.2,	94.9,	36,	0.3693	,11:59:15	,23-Dec-2013
277,	0.7,	94.7,	37,	0.3593	,12:00:15	,23-Dec-2013
278,	1.2,	94.5,	37,	0.3740	,12:01:15	,23-Dec-2013
279,	1.1,	94.4,	37,	0.3717	,12:02:15	,23-Dec-2013
280,	1.0,	94.2,	37,	0.3690	,12:03:15	,23-Dec-2013
281,	0.9,	94.1,	37,	0.3653	,12:04:15	,23-Dec-2013
282,	1.2,	94.0,	37,	0.3757	,12:05:15	,23-Dec-2013
283,	0.6,	93.8,	38,	0.3547	,12:06:15	,23-Dec-2013
284,	0.3,	93.7,	38,	0.3452	,12:07:15	,23-Dec-2013
285,	1.0,	93.6,	38,	0.3608	,12:08:15	,23-Dec-2013
286,	0.6,	93.5,	38,	0.3556	,12:09:15	,23-Dec-2013
287,	0.8,	93.5,	38,	0.3644	,12:10:15	,23-Dec-2013
288,	0.7,	93.4,	38,	0.3630	,12:11:15	,23-Dec-2013
289,	0.8,	93.3,	38,	0.3641	,12:12:15	,23-Dec-2013
290,	0.8,	93.2,	38,	0.3604	,12:13:15	,23-Dec-2013
291,	0.7,	93.0,	38,	0.3580	,12:14:15	,23-Dec-2013
292,	1.4,	92.9,	38,	0.3398	,12:15:15	,23-Dec-2013
293,	0.8,	92.8,	38,	0.3370	,12:16:15	,23-Dec-2013
294,	0.6,	92.8,	38,	0.3382	,12:17:15	,23-Dec-2013
295,	0.7,	93.0,	39,	0.3595	,12:18:15	,23-Dec-2013

296,	0.4,	93.1,	39,	0.3490	,12:19:15	,23-Dec-2013
297,	0.5,	93.2,	39,	0.3516	,12:20:15	,23-Dec-2013
298,	0.1,	93.3,	38,	0.3412	,12:21:15	,23-Dec-2013
299,	0.7,	93.4,	38,	0.3569	,12:22:15	,23-Dec-2013
300,	0.1,	93.5,	38,	0.3396	,12:23:15	,23-Dec-2013
301,	0.7,	93.5,	38,	0.3581	,12:24:15	,23-Dec-2013
302,	0.5,	93.6,	38,	0.3523	,12:25:15	,23-Dec-2013
303,	0.4,	93.7,	38,	0.3456	,12:26:15	,23-Dec-2013
304,	0.6,	93.7,	38,	0.3512	,12:27:15	,23-Dec-2013
305,	0.4,	93.9,	38,	0.3473	,12:28:15	,23-Dec-2013
306,	0.9,	94.0,	37,	0.3533	,12:29:15	,23-Dec-2013
307,	0.3,	94.1,	37,	0.3412	,12:30:15	,23-Dec-2013
308,	0.7,	94.2,	37,	0.3473	,12:31:15	,23-Dec-2013
309,	0.3,	94.4,	37,	0.3424	,12:32:15	,23-Dec-2013
310,	0.2,	94.5,	37,	0.3408	,12:33:15	,23-Dec-2013
311,	0.4,	94.7,	37,	0.3427	,12:34:15	,23-Dec-2013
312,	0.2,	94.9,	37,	0.3406	,12:35:15	,23-Dec-2013
313,	0.2,	95.1,	36,	0.3407	,12:36:15	,23-Dec-2013
314,	0.8,	95.3,	36,	0.3488	,12:37:15	,23-Dec-2013
315,	0.4,	95.5,	36,	0.3427	,12:38:15	,23-Dec-2013
316,	0.7,	95.7,	36,	0.3480	,12:39:15	,23-Dec-2013
317,	0.2,	96.0,	36,	0.3406	,12:40:15	,23-Dec-2013
318,	0.2,	96.1,	35,	0.3404	,12:41:15	,23-Dec-2013
319,	0.4,	96.4,	35,	0.3431	,12:42:15	,23-Dec-2013
320,	0.1,	96.6,	35,	0.3386	,12:43:15	,23-Dec-2013
321,	0.3,	96.8,	34,	0.3420	,12:44:15	,23-Dec-2013
322,	0.5,	96.9,	34,	0.3451	,12:45:15	,23-Dec-2013
323,	0.2,	97.0,	34,	0.3412	,12:46:15	,23-Dec-2013
324,	0.1,	97.2,	34,	0.3389	,12:47:15	,23-Dec-2013
325,	0.1,	97.4,	34,	0.3384	,12:48:15	,23-Dec-2013
326,	0.5,	97.6,	34,	0.3456	,12:49:15	,23-Dec-2013
327,	0.5,	97.8,	34,	0.3445	,12:50:15	,23-Dec-2013
328,	0.3,	97.9,	34,	0.3422	,12:51:15	,23-Dec-2013
329,	0.7,	98.0,	34,	0.3474	,12:52:15	,23-Dec-2013
330,	1.8,	98.1,	33,	0.5223	,12:53:15	,23-Dec-2013
331,	20.3,	98.1,	33,	2.3926	,12:54:15	,23-Dec-2013
332,	22.4,	98.2,	33,	2.1933	,12:55:15	,23-Dec-2013
333,	9.3,	98.2,	33,	1.0653	,12:56:15	,23-Dec-2013
334,	5.9,	98.2,	33,	1.2437	,12:57:15	,23-Dec-2013
335,	0.8,	98.2,	33,	0.4993	,12:58:15	,23-Dec-2013
336,	0.4,	98.2,	33,	0.3909	,12:59:15	,23-Dec-2013
337,	9.1,	98.2,	33,	0.5588	,13:00:15	,23-Dec-2013
338,	16.6,	98.2,	33,	1.1326	,13:01:15	,23-Dec-2013
339,	0.7,	98.2,	33,	0.4125	,13:02:15	,23-Dec-2013
340,	1.8,	98.2,	33,	0.5964	,13:03:15	,23-Dec-2013
341,	11.6,	98.2,	33,	1.8372	,13:04:15	,23-Dec-2013
342,	0.5,	98.2,	33,	0.4234	,13:05:15	,23-Dec-2013
343,	9.7,	98.2,	33,	1.5535	,13:06:15	,23-Dec-2013
344,	3.3,	98.3,	32,	0.9249	,13:07:15	,23-Dec-2013
345,	2.7,	98.4,	33,	0.8075	,13:08:15	,23-Dec-2013
346,	0.6,	98.5,	33,	0.3989	,13:09:15	,23-Dec-2013
347,	0.3,	98.5,	33,	0.3651	,13:10:15	,23-Dec-2013
348,	0.7,	98.5,	33,	0.4004	,13:11:15	,23-Dec-2013
349,	0.5,	98.6,	32,	0.3865	,13:12:15	,23-Dec-2013
350,	0.3,	98.5,	32,	0.3620	,13:13:15	,23-Dec-2013
351,	0.1,	98.5,	32,	0.3414	,13:14:15	,23-Dec-2013
352,	0.2,	98.4,	32,	0.3504	,13:15:15	,23-Dec-2013
353,	0.8,	98.4,	32,	0.4199	,13:16:15	,23-Dec-2013
354,	0.4,	98.5,	32,	0.3616	,13:17:15	,23-Dec-2013
355,	0.4,	98.6,	32,	0.3533	,13:18:15	,23-Dec-2013
356,	0.1,	98.7,	32,	0.3390	,13:19:15	,23-Dec-2013
357,	0.5,	98.8,	32,	0.3474	,13:20:15	,23-Dec-2013
358,	0.3,	98.9,	32,	0.3435	,13:21:15	,23-Dec-2013
359,	0.5,	98.9,	32,	0.3478	,13:22:15	,23-Dec-2013

360,	0.4,	99.0,	32,	0.3449	,13:23:15	,23-Dec-2013
361,	0.2,	99.0,	32,	0.3408	,13:24:15	,23-Dec-2013
362,	0.8,	99.0,	32,	0.3516	,13:25:15	,23-Dec-2013
363,	0.5,	99.0,	32,	0.3470	,13:26:15	,23-Dec-2013
364,	0.5,	98.9,	32,	0.3474	,13:27:15	,23-Dec-2013
365,	0.2,	98.8,	32,	0.3415	,13:28:15	,23-Dec-2013
366,	0.5,	98.7,	32,	0.3460	,13:29:15	,23-Dec-2013
367,	0.2,	98.6,	32,	0.3402	,13:30:15	,23-Dec-2013
368,	0.7,	98.4,	32,	0.3495	,13:31:15	,23-Dec-2013
369,	0.6,	98.3,	33,	0.3483	,13:32:15	,23-Dec-2013
370,	0.3,	98.2,	33,	0.3420	,13:33:15	,23-Dec-2013
371,	0.6,	98.2,	33,	0.3484	,13:34:15	,23-Dec-2013
372,	0.4,	98.3,	33,	0.3445	,13:35:15	,23-Dec-2013
373,	0.3,	98.3,	33,	0.3426	,13:36:15	,23-Dec-2013
374,	0.4,	98.4,	33,	0.3449	,13:37:15	,23-Dec-2013
375,	0.6,	98.4,	33,	0.3481	,13:38:15	,23-Dec-2013
376,	0.7,	98.5,	33,	0.3503	,13:39:15	,23-Dec-2013
377,	0.4,	98.4,	33,	0.3440	,13:40:15	,23-Dec-2013
378,	0.8,	98.3,	33,	0.3436	,13:41:15	,23-Dec-2013
379,	0.9,	98.2,	33,	0.3515	,13:42:15	,23-Dec-2013
380,	0.9,	98.1,	33,	0.3471	,13:43:15	,23-Dec-2013
381,	0.7,	98.0,	33,	0.3418	,13:44:15	,23-Dec-2013
382,	0.4,	98.0,	33,	0.3401	,13:45:15	,23-Dec-2013
383,	0.5,	98.0,	33,	0.3410	,13:46:15	,23-Dec-2013
384,	0.3,	98.0,	33,	0.3394	,13:47:15	,23-Dec-2013
385,	0.5,	97.9,	33,	0.3412	,13:48:15	,23-Dec-2013
386,	0.3,	97.9,	33,	0.3394	,13:49:15	,23-Dec-2013
387,	0.9,	97.8,	33,	0.3432	,13:50:15	,23-Dec-2013
388,	0.6,	97.7,	33,	0.3413	,13:51:15	,23-Dec-2013
389,	0.7,	97.6,	34,	0.3419	,13:52:15	,23-Dec-2013
390,	0.9,	97.4,	34,	0.3432	,13:53:15	,23-Dec-2013
391,	0.7,	97.3,	34,	0.3420	,13:54:15	,23-Dec-2013
392,	0.6,	97.1,	34,	0.3413	,13:55:15	,23-Dec-2013
393,	0.9,	97.1,	35,	0.3427	,13:56:15	,23-Dec-2013
394,	0.9,	97.0,	35,	0.3432	,13:57:15	,23-Dec-2013
395,	1.0,	97.0,	35,	0.3434	,13:58:15	,23-Dec-2013
396,	1.4,	96.9,	36,	0.3470	,13:59:15	,23-Dec-2013
397,	0.9,	96.9,	36,	0.3439	,14:00:15	,23-Dec-2013
398,	1.6,	96.9,	37,	0.3582	,14:01:15	,23-Dec-2013
399,	1.6,	96.9,	38,	0.3808	,14:02:15	,23-Dec-2013
400,	2.0,	96.9,	38,	0.4370	,14:03:15	,23-Dec-2013
401,	1.6,	96.7,	39,	0.4916	,14:04:15	,23-Dec-2013
402,	2.1,	96.5,	39,	0.4719	,14:05:15	,23-Dec-2013
403,	1.9,	96.2,	40,	0.4217	,14:06:15	,23-Dec-2013
404,	2.0,	96.0,	40,	0.4723	,14:07:15	,23-Dec-2013
405,	1.9,	95.8,	40,	0.3874	,14:08:15	,23-Dec-2013
406,	1.4,	95.6,	41,	0.3688	,14:09:15	,23-Dec-2013
407,	1.4,	95.4,	41,	0.3690	,14:10:15	,23-Dec-2013
408,	1.6,	95.3,	41,	0.4805	,14:11:15	,23-Dec-2013
409,	1.1,	95.1,	41,	0.4319	,14:12:15	,23-Dec-2013
410,	1.7,	94.9,	41,	0.4737	,14:13:15	,23-Dec-2013
411,	1.7,	94.7,	41,	0.4754	,14:14:15	,23-Dec-2013
412,	1.5,	94.5,	42,	0.4529	,14:15:15	,23-Dec-2013
413,	1.9,	94.3,	42,	0.5450	,14:16:15	,23-Dec-2013
414,	1.8,	94.1,	42,	0.5059	,14:17:15	,23-Dec-2013
415,	2.2,	93.8,	42,	0.5511	,14:18:15	,23-Dec-2013
416,	1.6,	93.6,	43,	0.4677	,14:19:15	,23-Dec-2013
417,	2.3,	93.4,	43,	0.5148	,14:20:15	,23-Dec-2013
418,	2.3,	93.3,	44,	0.4822	,14:21:15	,23-Dec-2013
419,	2.1,	93.1,	44,	0.5383	,14:22:15	,23-Dec-2013
420,	2.6,	93.0,	45,	0.5542	,14:23:15	,23-Dec-2013
421,	2.5,	93.0,	45,	0.5820	,14:24:15	,23-Dec-2013
422,	2.4,	93.0,	45,	0.6101	,14:25:15	,23-Dec-2013
423,	2.0,	92.9,	45,	0.4452	,14:26:15	,23-Dec-2013

424,	2.1,	92.9,	45,	0.4296	,14:27:15	,23-Dec-2013
425,	2.1,	92.8,	45,	0.4987	,14:28:15	,23-Dec-2013
426,	2.0,	92.8,	45,	0.4478	,14:29:15	,23-Dec-2013
427,	2.2,	92.7,	45,	0.4365	,14:30:15	,23-Dec-2013
428,	2.1,	92.7,	45,	0.4603	,14:31:15	,23-Dec-2013
429,	1.6,	92.7,	45,	0.4615	,14:32:15	,23-Dec-2013
430,	1.8,	92.7,	45,	0.4650	,14:33:15	,23-Dec-2013
431,	1.8,	92.7,	45,	0.4843	,14:34:15	,23-Dec-2013
432,	2.3,	92.7,	45,	0.4968	,14:35:15	,23-Dec-2013
433,	2.4,	92.7,	46,	0.6546	,14:36:15	,23-Dec-2013
434,	2.5,	92.8,	46,	0.6668	,14:37:15	,23-Dec-2013
435,	2.2,	92.8,	46,	0.4950	,14:38:15	,23-Dec-2013
436,	2.1,	92.9,	46,	0.4509	,14:39:15	,23-Dec-2013
437,	1.6,	93.0,	46,	0.4137	,14:40:15	,23-Dec-2013
438,	1.7,	93.1,	46,	0.4444	,14:41:15	,23-Dec-2013
439,	2.1,	93.3,	46,	0.4973	,14:42:15	,23-Dec-2013
440,	2.3,	93.3,	46,	0.6743	,14:43:15	,23-Dec-2013

CONFIDENTIAL - ATTORNEYS'

DataRAM 4 SN#_D7[illegible] Dev# 1 Tag# 61 start 23-Dec-2013 07:23:15 interval 00:01:00
(MASS)ug/m3
Temp (F)
Humidity (RH%)
Diameter (nm)
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
12/23/13 08:00:00
12/23/13 09:00:00
12/23/13 10:00:00
12/23/13 11:00:00
12/23/13 12:00:00
12/23/13 13:00:00
12/23/13 14:00:00

DataRAM 4 SN# D788 Dev#:1 Tag#:51 start:23-Dec-2013 07:23:15 interval: 00:01:00
(MASS)ug/m3
Temp (F)
Humidity (RH%)
Diameter (nm)
100
95
90
85
80
75
70
65
60
55
50
45
40
35
30
25
20
15
10
5
0
12/23/13 08:00:00
12/23/13 09:00:00
12/23/13 10:00:00
12/23/13 11:00:00
12/23/13 12:00:00
12/23/13 13:00:00
12/23/13 14:00:00

(MASS)ug/m3
Temp (F)
Humidity (RH%)
Diameter (nm)
DataRAM 4 SN# D788 Dev# 1 Tag# 61 Start 23-Dec-2013 07:23:15 Interval: 00:01:00
60
55
50
45
40
35
30
25
20
15
10
5
0
12/23/13 08:00:00
12/23/13 09:00:00
12/23/13 10:00:00
12/23/13 11:00:00
12/23/13 12:00:00
12/23/13 13:00:00
12/23/13 14:00:00

(MASS µg/m3
Temp (F)
Humidity (RH%)
Diameter (nm)
DataRAM 4 SN#:D788 Dev#:1 Tag#:61 start: 23-Dec-2013 07:23:15 interval: 00:01:00
2,400
2,300
2,200
2,100
2,000
1,900
1,800
1,700
1,600
1,500
1,400
1,300
1,200
1,100
1,000
900
800
700
600
500
400
300
200
100
0
12/23/13 08:00:00
12/23/13 09:00:00
12/23/13 10:00:00
12/23/13 11:00:00
12/23/13 12:00:00
12/23/13 13:00:00
12/23/13 14:00:00

APPENDIX 4

TOWER #1 AIR PARTICULATE MONITORING

"Serial no. ", "D787 "
Device no. ", HOMECA RECYCLING,PR OLEFINS TORRE 2 NORTE
Tag Number ", 12
"Start Time ", 07:46:50
"Start Date ", 23-Dec-2013
Log Period ", 00:01:00
"Number ", 495
"CalFactor ", 1.000000
Unit ", 0
"Unit Name ", "(MASS)ug/m3"
"SIZE_CORRECT", "ENABLED"
TEMPUNITS ", F
Max MASS ", 5.898774
"Max MASS @ ", ,21:33:50 ,23-Dec-2013
"Avg MASS ", 1.661524
Max Diam ", 0.442306
"Max Diam @ ", 5 ,07:45:50 ,23-Dec-2013
"Avg Diam ", 0.358823
ALARM ", "DISABLED"
ALARM_LEVEL ", 0.0
"AUTO_ZERO ", "DISABLED"
"AZ INTERVAL ", 1
Errors ", 0000

record	"(MASS)ug/m3"	Temp,	RHumidity,	Diameter	
1,	1.7,	80.6,	61,	0.31	,07:47:50 ,23-Dec-2013
2,	1.7,	80.6,	61,	0.31	,07:48:50 ,23-Dec-2013
3,	1.7,	80.6,	62,	0.31	,07:49:50 ,23-Dec-2013
4,	1.6,	80.5,	62,	0.31	,07:50:50 ,23-Dec-2013
5,	1.3,	80.5,	62,	0.31	,07:51:50 ,23-Dec-2013
6,	1.6,	80.5,	62,	0.31	,07:52:50 ,23-Dec-2013
7,	1.4,	80.5,	62,	0.31	,07:53:50 ,23-Dec-2013
8,	1.4,	80.5,	62,	0.31	,07:54:50 ,23-Dec-2013
9,	1.2,	80.4,	62,	0.31	,07:55:50 ,23-Dec-2013
10,	1.5,	80.5,	62,	0.31	,07:56:50 ,23-Dec-2013
11,	0.9,	80.5,	62,	0.32	,07:57:50 ,23-Dec-2013
12,	1.3,	80.4,	62,	0.31	,07:58:50 ,23-Dec-2013
13,	1.4,	80.4,	62,	0.31	,07:59:50 ,23-Dec-2013
14,	1.4,	80.4,	62,	0.31	,08:00:50 ,23-Dec-2013
15,	2.6,	80.4,	62,	0.32	,08:01:50 ,23-Dec-2013
16,	2.2,	80.3,	62,	0.36	,08:02:50 ,23-Dec-2013
17,	2.0,	80.3,	62,	0.35	,08:03:50 ,23-Dec-2013
18,	1.6,	80.2,	62,	0.35	,08:04:50 ,23-Dec-2013
19,	1.7,	80.2,	62,	0.35	,08:05:50 ,23-Dec-2013
20,	1.5,	80.1,	63,	0.35	,08:06:50 ,23-Dec-2013
21,	1.3,	80.1,	63,	0.34	,08:07:50 ,23-Dec-2013
22,	1.3,	80.0,	62,	0.34	,08:08:50 ,23-Dec-2013
23,	1.3,	80.0,	63,	0.34	,08:09:50 ,23-Dec-2013
24,	1.3,	80.0,	62,	0.34	,08:10:50 ,23-Dec-2013
25,	1.4,	79.8,	62,	0.34	,08:11:50 ,23-Dec-2013
26,	1.2,	79.8,	63,	0.34	,08:12:50 ,23-Dec-2013
27,	1.5,	79.8,	63,	0.34	,08:13:50 ,23-Dec-2013
28,	1.2,	79.8,	63,	0.34	,08:14:50 ,23-Dec-2013
29,	1.4,	79.7,	63,	0.34	,08:15:50 ,23-Dec-2013
30,	1.3,	79.8,	62,	0.34	,08:16:50 ,23-Dec-2013
31,	1.4,	79.7,	63,	0.34	,08:17:50 ,23-Dec-2013
32,	1.6,	79.7,	63,	0.34	,08:18:50 ,23-Dec-2013
33,	1.4,	79.7,	63,	0.34	,08:19:50 ,23-Dec-2013
34,	1.7,	79.7,	63,	0.34	,08:20:50 ,23-Dec-2013
35,	1.8,	79.6,	62,	0.34	,08:21:50 ,23-Dec-2013
36,	1.7,	79.7,	62,	0.34	,08:22:50 ,23-Dec-2013
37,	1.9,	79.6,	63,	0.34	,08:23:50 ,23-Dec-2013
38,	1.9,	79.6,	62,	0.34	,08:24:50 ,23-Dec-2013
39,	1.8,	79.6,	62,	0.34	,08:25:50 ,23-Dec-2013
40,	1.9,	79.6,	62,	0.34	,08:26:50 ,23-Dec-2013

41,	1.8,	79.7,	62,	0.34	,08:27:50	,23-Dec-2013
42,	1.8,	79.6,	62,	0.35	,08:28:50	,23-Dec-2013
43,	2.0,	79.6,	62,	0.35	,08:29:50	,23-Dec-2013
44,	2.0,	79.6,	62,	0.34	,08:30:50	,23-Dec-2013
45,	3.1,	79.6,	62,	0.40	,08:31:50	,23-Dec-2013
46,	3.1,	79.6,	62,	0.36	,08:32:50	,23-Dec-2013
47,	4.1,	79.5,	62,	0.31	,08:33:50	,23-Dec-2013
48,	3.5,	79.5,	62,	0.34	,08:34:50	,23-Dec-2013
49,	5.9,	79.5,	62,	0.26	,08:35:50	,23-Dec-2013
50,	3.3,	79.5,	62,	0.31	,08:36:50	,23-Dec-2013
51,	2.6,	79.5,	62,	0.32	,08:37:50	,23-Dec-2013
52,	2.5,	79.5,	62,	0.34	,08:38:50	,23-Dec-2013
53,	2.0,	79.4,	62,	0.34	,08:39:50	,23-Dec-2013
54,	2.3,	79.4,	62,	0.38	,08:40:50	,23-Dec-2013
55,	1.8,	79.4,	62,	0.37	,08:41:50	,23-Dec-2013
56,	1.9,	79.4,	62,	0.37	,08:42:50	,23-Dec-2013
57,	1.8,	79.4,	62,	0.36	,08:43:50	,23-Dec-2013
58,	2.0,	79.3,	62,	0.39	,08:44:50	,23-Dec-2013
59,	2.1,	79.3,	62,	0.41	,08:45:50	,23-Dec-2013
60,	1.8,	79.3,	62,	0.37	,08:46:50	,23-Dec-2013
61,	1.9,	79.3,	62,	0.37	,08:47:50	,23-Dec-2013
62,	1.8,	79.3,	62,	0.35	,08:48:50	,23-Dec-2013
63,	1.7,	79.3,	62,	0.35	,08:49:50	,23-Dec-2013
64,	1.8,	79.3,	62,	0.35	,08:50:50	,23-Dec-2013
65,	1.9,	79.2,	62,	0.37	,08:51:50	,23-Dec-2013
66,	1.9,	79.2,	62,	0.37	,08:52:50	,23-Dec-2013
67,	2.2,	79.2,	62,	0.42	,08:53:50	,23-Dec-2013
68,	1.9,	79.2,	62,	0.41	,08:54:50	,23-Dec-2013
69,	1.9,	79.1,	62,	0.39	,08:55:50	,23-Dec-2013
70,	1.9,	79.1,	62,	0.38	,08:56:50	,23-Dec-2013
71,	1.7,	79.1,	62,	0.36	,08:57:50	,23-Dec-2013
72,	2.0,	79.1,	62,	0.39	,08:58:50	,23-Dec-2013
73,	1.8,	79.0,	62,	0.38	,08:59:50	,23-Dec-2013
74,	1.8,	79.0,	62,	0.36	,09:00:50	,23-Dec-2013
75,	1.8,	79.0,	62,	0.36	,09:01:50	,23-Dec-2013
76,	1.9,	78.9,	62,	0.39	,09:02:50	,23-Dec-2013
77,	1.7,	78.9,	63,	0.38	,09:03:50	,23-Dec-2013
78,	1.7,	78.9,	62,	0.38	,09:04:50	,23-Dec-2013
79,	1.9,	78.9,	63,	0.37	,09:05:50	,23-Dec-2013
80,	1.6,	78.9,	63,	0.36	,09:06:50	,23-Dec-2013
81,	2.1,	78.9,	63,	0.37	,09:07:50	,23-Dec-2013
82,	1.9,	78.9,	63,	0.36	,09:08:50	,23-Dec-2013
83,	1.9,	78.8,	63,	0.36	,09:09:50	,23-Dec-2013
84,	2.2,	78.9,	63,	0.37	,09:10:50	,23-Dec-2013
85,	1.9,	78.9,	63,	0.36	,09:11:50	,23-Dec-2013
86,	1.9,	78.8,	63,	0.36	,09:12:50	,23-Dec-2013
87,	2.0,	78.8,	63,	0.37	,09:13:50	,23-Dec-2013
88,	1.9,	78.8,	63,	0.36	,09:14:50	,23-Dec-2013
89,	1.8,	78.8,	63,	0.38	,09:15:50	,23-Dec-2013
90,	1.9,	78.8,	63,	0.38	,09:16:50	,23-Dec-2013
91,	1.8,	78.7,	63,	0.38	,09:17:50	,23-Dec-2013
92,	1.7,	78.7	63,	0.40	,09:18:50	,23-Dec-2013
94,	1.5,	78.7,	63,	0.40	,09:19:50	,23-Dec-2013
95,	2.0,	78.7,	63,	0.42	,09:20:50	,23-Dec-2013
96,	1.9,	78.7,	63,	0.41	,09:21:50	,23-Dec-2013
97,	1.9,	78.7,	63,	0.39	,09:22:50	,23-Dec-2013
98,	1.7,	78.7,	63,	0.40	,09:23:50	,23-Dec-2013
99,	1.8,	78.7,	63,	0.38	,09:24:50	,23-Dec-2013
100,	1.9,	78.7,	63,	0.37	,09:25:50	,23-Dec-2013
101,	1.8,	78.6,	63,	0.36	,09:26:50	,23-Dec-2013
102,	1.8,	78.6,	63,	0.37	,09:27:50	,23-Dec-2013
103,	1.7,	78.5,	63,	0.37	,09:28:50	,23-Dec-2013
104,	1.9,	78.5,	63,	0.39	,09:29:50	,23-Dec-2013
105,	1.8,	78.5,	63,	0.41	,09:30:50	,23-Dec-2013

106,	1.6,	78.5,	63,	0.39	,09:31:50	,23-Dec-2013
107,	1.8,	78.5,	63,	0.38	,09:32:50	,23-Dec-2013
108,	1.9,	78.4,	63,	0.36	,09:33:50	,23-Dec-2013
109,	1.6,	78.4,	63,	0.35	,09:34:50	,23-Dec-2013
110,	1.8,	78.4,	63,	0.35	,09:35:50	,23-Dec-2013
111,	1.9,	78.4,	63,	0.34	,09:36:50	,23-Dec-2013
112,	1.8,	78.4,	63,	0.33	,09:37:50	,23-Dec-2013
113,	1.8,	78.4,	63,	0.33	,09:38:50	,23-Dec-2013
114,	1.7,	78.3,	63,	0.32	,09:39:50	,23-Dec-2013
115,	1.7,	78.3,	63,	0.32	,09:40:50	,23-Dec-2013
116,	1.7,	78.3,	63,	0.32	,09:41:50	,23-Dec-2013
117,	1.8,	78.2,	63,	0.32	,09:42:50	,23-Dec-2013
118,	2.0,	78.2,	63,	0.32	,09:43:50	,23-Dec-2013
119,	1.8,	78.2,	63,	0.33	,09:44:50	,23-Dec-2013
120,	1.9,	78.2,	63,	0.33	,09:45:50	,23-Dec-2013
121,	2.0,	78.2,	63,	0.33	,09:46:50	,23-Dec-2013
122,	1.8,	78.2,	63,	0.35	,09:47:50	,23-Dec-2013
123,	1.7,	78.2,	63,	0.35	,09:48:50	,23-Dec-2013
124,	1.9,	78.1,	63,	0.36	,09:49:50	,23-Dec-2013
125,	1.9,	78.1,	63,	0.36	,09:50:50	,23-Dec-2013
126,	1.7,	78.1,	63,	0.36	,09:51:50	,23-Dec-2013
127,	1.7,	78.0,	63,	0.36	,09:52:50	,23-Dec-2013
128,	1.7,	78.0,	63,	0.39	,09:53:50	,23-Dec-2013
129,	1.8,	78.0,	63,	0.40	,09:54:50	,23-Dec-2013
130,	1.7,	78.0,	63,	0.39	,09:55:50	,23-Dec-2013
131,	1.7,	78.0,	63,	0.36	,09:56:50	,23-Dec-2013
132,	1.8,	78.0,	63,	0.36	,09:57:50	,23-Dec-2013
133,	1.7,	78.0,	63,	0.36	,09:58:50	,23-Dec-2013
134,	1.8,	77.9,	63,	0.36	,09:59:50	,23-Dec-2013
135,	1.7,	77.9,	63,	0.36	,10:00:50	,23-Dec-2013
136,	1.9,	77.9,	63,	0.36	,10:01:50	,23-Dec-2013
137,	1.8,	77.9,	63,	0.36	,10:02:50	,23-Dec-2013
138,	1.6,	77.9,	64,	0.35	,10:03:50	,23-Dec-2013
139,	1.7,	77.8,	63,	0.35	,10:04:50	,23-Dec-2013
140,	1.7,	77.8,	63,	0.36	,10:05:50	,23-Dec-2013
141,	1.5,	77.8,	64,	0.36	,10:06:50	,23-Dec-2013
142,	1.8,	77.8,	63,	0.36	,10:07:50	,23-Dec-2013
143,	1.9,	77.8,	64,	0.37	,10:08:50	,23-Dec-2013
144,	1.7,	77.8,	63,	0.37	,10:09:50	,23-Dec-2013
145,	1.9,	77.7,	63,	0.38	,10:10:50	,23-Dec-2013
146,	1.4,	77.7,	64,	0.36	,10:11:50	,23-Dec-2013
147,	1.8,	77.6,	64,	0.36	,10:12:50	,23-Dec-2013
148,	1.9,	77.6,	64,	0.35	,10:13:50	,23-Dec-2013
149,	1.8,	77.6,	64,	0.34	,10:14:50	,23-Dec-2013
150,	1.8,	77.6,	63,	0.32	,10:15:50	,23-Dec-2013
151,	1.7,	77.5,	64,	0.32	,10:16:50	,23-Dec-2013
152,	1.7,	77.5,	64,	0.32	,10:17:50	,23-Dec-2013
153,	1.7,	77.5,	64,	0.33	,10:18:50	,23-Dec-2013
154,	1.9,	77.4,	64,	0.33	,10:19:50	,23-Dec-2013
155,	1.6,	77.4,	64,	0.33	,10:20:50	,23-Dec-2013
156,	1.8,	77.5,	64,	0.33	,10:21:50	,23-Dec-2013
157,	1.9,	77.4,	64,	0.34	,10:22:50	,23-Dec-2013
158,	1.7,	77.4,	64,	0.34	,10:23:50	,23-Dec-2013
159,	1.8,	77.4,	64,	0.35	,10:24:50	,23-Dec-2013
160,	1.8,	77.3,	64,	0.35	,10:25:50	,23-Dec-2013
161,	1.7,	77.3,	64,	0.35	,10:26:50	,23-Dec-2013
162,	1.6,	77.3,	64,	0.35	,10:27:50	,23-Dec-2013
163,	1.5,	77.3,	64,	0.35	,10:28:50	,23-Dec-2013
164,	1.9,	77.3,	64,	0.35	,10:29:50	,23-Dec-2013
165,	1.9,	77.3,	64,	0.35	,10:30:50	,23-Dec-2013
166,	1.5,	77.3,	64,	0.35	,10:31:50	,23-Dec-2013
167,	1.4,	77.3,	64,	0.35	,10:32:50	,23-Dec-2013
168,	1.6,	77.3,	64,	0.35	,10:33:50	,23-Dec-2013
169,	1.9,	77.3,	64,	0.35	,10:34:50	,23-Dec-2013

170,	1.8,	77.3,	64,	0.35	,10:35:50	,23-Dec-2013
171,	1.5,	77.2,	64,	0.35	,10:36:50	,23-Dec-2013
172,	1.8,	77.2,	64,	0.36	,10:37:50	,23-Dec-2013
173,	2.1,	77.2,	64,	0.35	,10:38:50	,23-Dec-2013
174,	1.7,	77.2,	64,	0.34	,10:39:50	,23-Dec-2013
175,	1.8,	77.2,	64,	0.34	,10:40:50	,23-Dec-2013
176,	1.8,	77.1,	64,	0.34	,10:41:50	,23-Dec-2013
177,	1.6,	77.1,	64,	0.34	,10:42:50	,23-Dec-2013
178,	1.8,	77.1,	64,	0.34	,10:43:50	,23-Dec-2013
179,	1.7,	77.1,	64,	0.34	,10:44:50	,23-Dec-2013
180,	1.7,	77.1,	64,	0.34	,10:45:50	,23-Dec-2013
181,	1.8,	77.1,	64,	0.34	,10:46:50	,23-Dec-2013
182,	1.7,	77.1,	64,	0.34	,10:47:50	,23-Dec-2013
183,	1.6,	77.1,	64,	0.34	,10:48:50	,23-Dec-2013
184,	1.8,	77.0,	64,	0.34	,10:49:50	,23-Dec-2013
185,	1.7,	77.0,	64,	0.34	,10:50:50	,23-Dec-2013
186,	1.6,	77.0,	64,	0.34	,10:51:50	,23-Dec-2013
187,	1.6,	77.0,	64,	0.34	,10:52:50	,23-Dec-2013
188,	1.6,	76.9,	64,	0.34	,10:53:50	,23-Dec-2013
189,	1.7,	76.9,	64,	0.35	,10:54:50	,23-Dec-2013
190,	1.7,	76.9,	64,	0.35	,10:55:50	,23-Dec-2013
191,	1.8,	76.9,	64,	0.35	,10:56:50	,23-Dec-2013
192,	1.8,	76.9,	64,	0.35	,10:57:50	,23-Dec-2013
193,	1.7,	76.9,	64,	0.36	,10:58:50	,23-Dec-2013
194,	1.6,	76.9,	64,	0.36	,10:59:50	,23-Dec-2013
195,	1.5,	76.9,	64,	0.36	,11:00:50	,23-Dec-2013
196,	1.7,	76.9,	64,	0.36	,11:01:50	,23-Dec-2013
197,	2.1,	76.8,	64,	0.36	,11:02:50	,23-Dec-2013
198,	1.8,	76.8,	64,	0.36	,11:03:50	,23-Dec-2013
199,	1.7,	76.8,	64,	0.35	,11:04:50	,23-Dec-2013
200,	1.8,	76.8,	64,	0.34	,11:05:50	,23-Dec-2013
201,	1.9,	76.8,	64,	0.35	,11:06:50	,23-Dec-2013
202,	1.9,	76.8,	64,	0.34	,11:07:50	,23-Dec-2013
203,	1.8,	76.8,	64,	0.34	,11:08:50	,23-Dec-2013
204,	1.7,	76.8,	64,	0.34	,11:09:50	,23-Dec-2013
205,	1.8,	76.7,	64,	0.35	,11:10:50	,23-Dec-2013
206,	1.7,	76.7,	64,	0.35	,11:11:50	,23-Dec-2013
207,	2.1,	76.7,	64,	0.35	,11:12:50	,23-Dec-2013
208,	1.6,	76.7,	64,	0.35	,11:13:50	,23-Dec-2013
209,	1.7,	76.7,	64,	0.35	,11:14:50	,23-Dec-2013
210,	1.5,	76.7,	64,	0.35	,11:15:50	,23-Dec-2013
211,	2.0,	76.7,	64,	0.37	,11:16:50	,23-Dec-2013
212,	1.5,	76.7,	64,	0.36	,11:17:50	,23-Dec-2013
213,	1.6,	76.7,	64,	0.36	,11:18:50	,23-Dec-2013
214,	1.7,	76.7,	64,	0.37	,11:19:50	,23-Dec-2013
215,	1.6,	76.7,	64,	0.36	,11:20:50	,23-Dec-2013
216,	1.9,	76.6,	64,	0.36	,11:21:50	,23-Dec-2013
217,	1.8,	76.6,	64,	0.35	,11:22:50	,23-Dec-2013
218,	1.6,	76.6,	64,	0.35	,11:23:50	,23-Dec-2013
219,	1.7,	76.6,	64,	0.35	,11:24:50	,23-Dec-2013
220,	1.7,	76.6,	64,	0.35	,11:25:50	,23-Dec-2013
221,	1.5,	76.6,	64,	0.37	,11:26:50	,23-Dec-2013
222,	1.5,	76.6,	64,	0.37	,11:27:50	,23-Dec-2013
223,	1.7,	76.6,	64,	0.38	,11:28:50	,23-Dec-2013
224,	1.7,	76.6,	64,	0.38	,11:29:50	,23-Dec-2013
225,	1.8,	76.6,	64,	0.38	,11:30:50	,23-Dec-2013
226,	1.6,	76.6,	64,	0.37	,11:31:50	,23-Dec-2013
227,	1.8,	76.6,	64,	0.37	,11:32:50	,23-Dec-2013
228,	1.7,	76.6,	64,	0.37	,11:33:50	,23-Dec-2013
229,	1.4,	76.5,	64,	0.36	,11:34:50	,23-Dec-2013
230,	1.7,	76.6,	64,	0.36	,11:35:50	,23-Dec-2013
231,	1.6,	76.6,	64,	0.35	,11:36:50	,23-Dec-2013
232,	1.9,	76.6,	64,	0.36	,11:37:50	,23-Dec-2013
233,	1.8,	76.6,	64,	0.36	,11:38:50	,23-Dec-2013

234,	1.8,	76.6,	64,	0.37	,11:39:50	,23-Dec-2013
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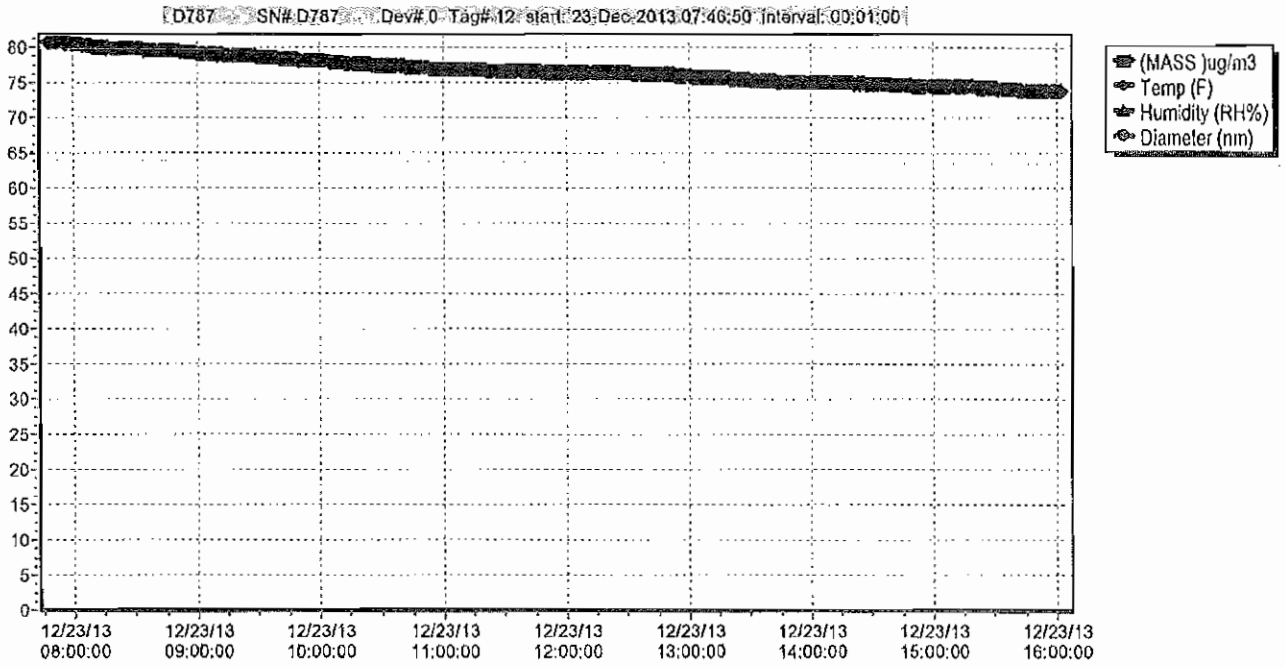
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464,	1.5,	74.1,	62,	0.33	,15:29:50	,23-Dec-2013
465,	1.5,	74.1,	62,	0.33	,15:30:50	,23-Dec-2013
466,	1.5,	74.0,	62,	0.33	,15:31:50	,23-Dec-2013
467,	1.2,	74.0,	62,	0.33	,15:32:50	,23-Dec-2013
468,	1.5,	74.0,	62,	0.33	,15:33:50	,23-Dec-2013
469,	1.3,	73.9,	62,	0.33	,15:34:50	,23-Dec-2013
470,	1.2,	73.9,	62,	0.33	,15:35:50	,23-Dec-2013
471,	1.5,	73.9,	62,	0.35	,15:36:50	,23-Dec-2013
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474,	1.4,	73.9,	62,	0.32	,15:39:50	,23-Dec-2013
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480,	1.3,	73.8,	62,	0.32	,15:45:50	,23-Dec-2013
481,	1.4,	73.8,	62,	0.32	,15:46:50	,23-Dec-2013
482,	1.5,	73.8,	62,	0.32	,15:47:50	,23-Dec-2013
483,	1.6,	73.8,	62,	0.34	,15:48:50	,23-Dec-2013
484,	1.3,	73.7,	62,	0.34	,15:49:50	,23-Dec-2013
485,	1.3,	73.7,	62,	0.34	,15:50:50	,23-Dec-2013
486,	1.4,	73.7,	62,	0.34	,15:51:50	,23-Dec-2013
487,	1.7,	73.7,	62,	0.34	,15:52:50	,23-Dec-2013
488,	1.4,	73.7,	62,	0.34	,15:53:50	,23-Dec-2013
489,	1.5,	73.7,	62,	0.34	,15:54:50	,23-Dec-2013

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491,    1.4,  73.6,   62,   0.34  ,15:56:50  ,23-Dec-2013
492,    1.1,  73.7,   62,   0.35  ,15:57:50  ,23-Dec-2013
493,    1.5,  73.6,   62,   0.36  ,15:58:50  ,23-Dec-2013
494,    1.3,  73.6,   62,   0.35  ,15:59:50  ,23-Dec-2013
495,    1.5,  73.6,   62,   0.36  ,16:00:50  ,23-Dec-2013
```

CONFIDENTIAL & PRIVILEGE



CONFIDENTIAL/UNDER PROTECTIVE ORDER

CONFIDENTIAL & PRIVILEDGE

000338

CONFIDENTIAL - SUBJECT TO

ALTOL
Environmental Services, Inc.

P.O Box 359 Mercedita, PR 00715-0359

December 30, 2013

Mr. Benjamin Cintrón
Project Manager
Homeca Recycling

RE: AIR PARTICULATE MONITORING REPORT AT PUERTO RICO OLEFINES, PEÑUELAS, PR.

Dear Mr. Cintrón:

Altol Environmental Services, Inc., submits for your review the results obtained during the air particulates monitoring. These were performed following Altol operational procedures.

Altol's technician installed and removed the Data Ram-4 COM equipment from the Towers located at Puerto Rico Olefines in Peñuelas, PR. The equipment collected data every minute for approximately a eight (8) hour period. Also, during the installation and removal of the equipment the wind direction, wind velocity, weather and other conditions were documented as supplementary information. The wind velocity was measured using the Kestrell 4000 equipment.

Appendix 1 presents **Table 1** which summarizes the results of information collected at the towers. The data collected during this period indicated levels of particulate material (PM_{10}) that do not exceed the regulated limits of the United States Environmental Protection Agency (USEPA) of 150 $\mu g/m^3$ (40 CFR part 50) (**Appendix 2**). The information collected from each tower is presented in graphics in terms of mass and dates (**Appendix 3**).

The following Appendices present the tables and graphics results for mass ($\mu g/m^3$), temperature (^oF), relative humidity (RH) and diameter (nm), obtained from each Data Ram-4 COM equipment:

- **Appendix 4**, correspond to Tower # 1, December 16, 2013.
- **Appendix 5**, correspond to Tower # 2, December 16, 2013.

If you need any further information contact us at your earliest convenience at (787)-835-4242 or (787) 430-6141.

Statement of Authenticity,
Altol Environmental Services, Inc.

Certify that the results are complete and accurate

Cordially,

Carlos E. Ocasio Feliciano
Environmental Higiene

Parque Industrial Sabanetas ▪ Edificio M-1380 ▪ Ponce, PR 00715
Tel. (787) 835-4242 ▪ Fax (787) 835-2004

APPENDIX 1
FUGITIVE DUSTS SAMPLING AND TEST RESULTS

TABLE 1. FUGITIVE DUSTS SAMPLING AND ENVIRONMENTAL CONDITIONS

Air Monitoring Date	Air Monitoring Tower	Latitude and Longitude	Equipment Data Ram-4 COM						Equipment Kestrell Model 4000		Field Observation				Sampling Personnel
			Equipment Model/ID#	Start Time	Finish Time	Avg Mass ($\mu g/m^3$)	Regulatory Limits ($\mu g/m3$)	Avg Diameter (nm)	Wind Velocity Start Time (mph)	Wind Velocity Finish Time (mph)	Weather Condition Start Time	Weather Condition Finish Time	Wind Direction Start Time	Wind Direction Finish Time	
12/16/2013 12/16/2013	1		DR4/D787	8:32	16:00	2.19	150	0.43	2.5	3.8	Sunny	Cloudy	North West	North West	JS
12/16/2013 12/16/2013	2		DR4/D786	9:06	15:26	1.06	150	0.38	3.7	4.2	Sunny	Cloudy	North West	North West	JS

Standard Limit = 150 $\mu g/m^3$

Leyend

N/A.- Not Aplicable
RV - Robert Velazquez
JRR- Jaime Rivera Rivera
JR- Juan Rivera
JC- Jose Cruz
NH Nehemias Hernandez
JS- José Santos

Towers Location:

Tower #1: PR-503
Tower #2: Disposal Area 3A
Tower #3: Access Road #1
Tower #4: Laboratory Area

ALTOL
Environmental Services, Inc.

Statement of Authenticity,
Certify that the results are complete and accurate

Cordially,

Carlos E. Ocasio Feliciano
Environmental Higiene

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COMPLETAL RECORD
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000341 RX 6

APPENDIX 2
USEPA REGULATION PARAMETER

National Ambient Air Quality Standards (NAAQS)

The Clean Air Act, which was last amended in 1990, requires EPA to set National Ambient Air Quality Standards (40 CFR part 50) for pollutants considered harmful to public health and the environment. The Clean Air Act established two types of national air quality standards. *Primary standards* set limits to protect public health, including the health of "sensitive" populations such as asthmatics, children, and the elderly. *Secondary standards* set limits to protect public welfare, including protection against decreased visibility, damage to animals, crops, vegetation, and buildings.

The EPA Office of Air Quality Planning and Standards (OAQPS) has set National Ambient Air Quality Standards for six principal pollutants, which are called "criteria" pollutants. They are listed below. Units of measure for the standards are parts per million (ppm) by volume, milligrams per cubic meter of air (mg/m^3), and micrograms per cubic meter of air (µg/m^3).

National Ambient Air Quality Standards

	Primary Standards		Secondary Standards	
Pollutant	Level	Averaging Time	Level	Averaging Time
Carbon Monoxide	9 ppm (10 mg/m^3)	8-hour [1]	None	
	35 ppm (40 mg/m^3)	1-hour [1]		
Lead	0.15 µg/m^3 [2]	Rolling 3-Month Average	Same as Primary	
	1.5 µg/m^3	Quarterly Average	Same as Primary	
Nitrogen Dioxide	0.053 ppm (100 µg/m^3)	Annual (Arithmetic Mean)	Same as Primary	
Particulate Matter (PM_{10})	150 µg/m^3	24-hour [3]	Same as Primary	
Particulate Matter ($PM_{2.5}$)	15.0 µg/m^3	Annual [4] (Arithmetic Mean)	Same as Primary	
	35 µg/m^3	24-hour [5]	Same as Primary	
Ozone	0.075 ppm (2008 std)	8-hour [6]	Same as Primary	
	0.08 ppm (1997 std)	8-hour [7]	Same as Primary	
	0.12 ppm	1-hour [8] (Applies only in limited areas)	Same as Primary	
Sulfur Dioxide	0.03 ppm	Annual (Arithmetic Mean)	0.5 ppm (1300 µg/m^3)	3-hour [1]
	0.14 ppm	24-hour [1]		

[1] Not to be exceeded more than once per year.
[2] Final rule signed October 15, 2008.
[3] Not to be exceeded more than once per year on average over 3 years.
[4] To attain this standard, the 3-year average of the weighted annual mean PM2.5 concentrations from single or multiple community-oriented monitors must not exceed 15.0 µg/m3.
[5] To attain this standard, the 3-year average of the 98th percentile of 24-hour concentrations at each population-oriented monitor within an area must not exceed 35 µg/m3 (effective December 17, 2006).
[6] To attain this standard, the 3-year average of the fourth-highest daily maximum 8-hour average ozone concentrations measured at each monitor within an area over each year must not exceed 0.075 ppm. (effective May 27, 2008)
[7] (a) To attain this standard, the 3-year average of the fourth-highest daily maximum 8-hour average ozone concentrations measured at each monitor within an area over each year must not exceed 0.08 ppm.

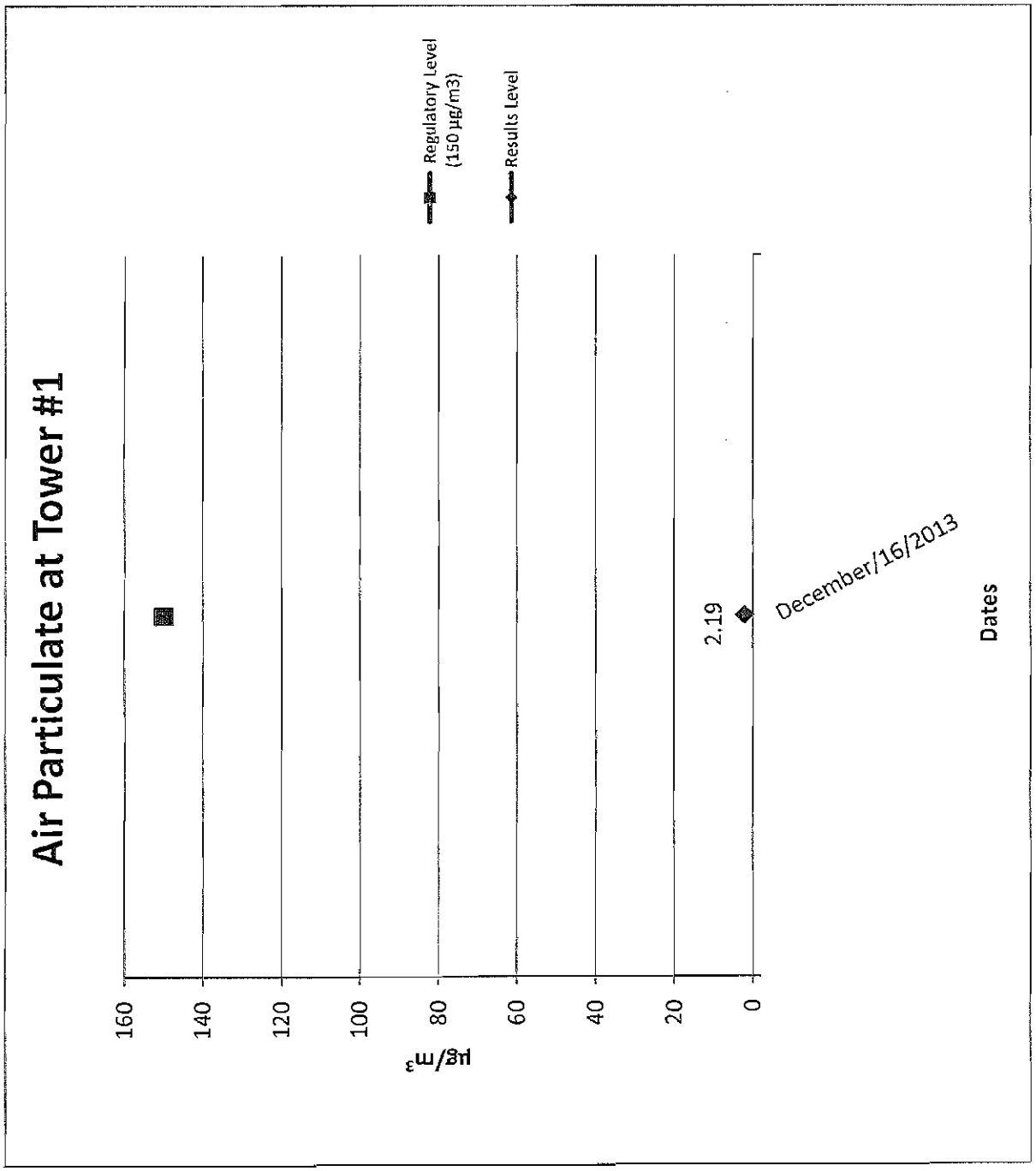
(b) The 1997 standard—and the implementation rules for that standard—will remain in place for implementation purposes as EPA undertakes rulemaking to address the transition from the 1997 ozone standard to the 2008 ozone standard.
[8] (a) The standard is attained when the expected number of days per calendar year with maximum hourly average concentrations above 0.12 ppm is ≤ 1.

(b) As of June 15, 2005 EPA revoked the 1-hour ozone standard in all areas except the 8-hour ozone nonattainment Early Action Compact (EAC) Areas.

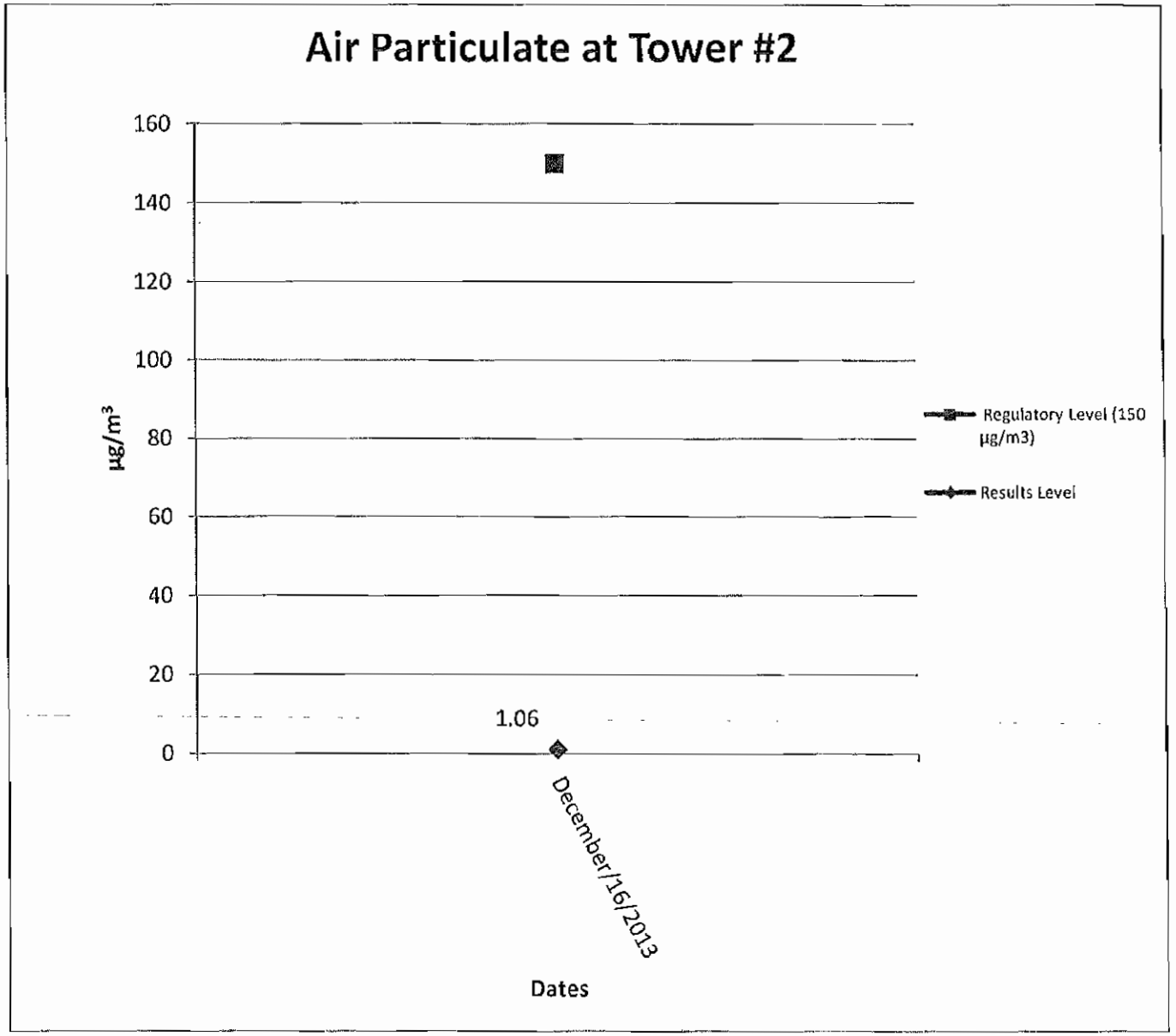
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APPENDIX 3
GRAPHICS OF MASS vs DATE

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APPENDIX 4
TOWER #1 AIR PARTICULATE MONITORING

```
"Model Number", "DataRAM 4 ", 106
 Serial no.  ", "D787      "
"Device no.  ", HOMECA RECYCLING,PR OLEFINS TORRE 1 NORTE
"Tag Number  ", 4
 Start Time  ", 08:31:31
"Start Date  ", 16-Dec-2013
"Log Period  ", 00:01:00
 Number      ", 450
 CalFactor   ", 1.000000
"Unit        ", 0
"Unit Name   ", "(MASS )ug/m3"
 SIZE_CORRECT", "ENABLED"
"TEMPUNITS   ", F
"Max MASS    ", 37.957890
 Max MASS  @ ",   ,18:02:31  ,16-Dec-2013
 Avg MASS    ", 2.191599
"Max Diam    ", 3.544955
"Max Diam @  ",   ,08:30:31  ,16-Dec-2013
 Avg Diam    ", 0.430102
"ALARM       ", "DISABLED"
"ALARM_LEVEL ", 0.0
 AUTO_ZERO   ", "DISABLED"
 AZ INTERVAL ", 1
"Errors      ", 0000
"ecord,"(MASS )ug/m3", Temp, RHumidity, Diameter
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     2,        2.7,  83.5,   51,   0.37  ,08:33:31  ,16-Dec-2013
     3,        2.3,  83.5,   52,   0.40  ,08:34:31  ,16-Dec-2013
     4,        2.4,  83.6,   52,   0.46  ,08:35:31  ,16-Dec-2013
     5,        3.1,  83.6,   53,   0.38  ,08:36:31  ,16-Dec-2013
     6,        2.7,  83.6,   53,   0.42  ,08:37:31  ,16-Dec-2013
     7,        2.5,  83.6,   53,   0.46  ,08:38:31  ,16-Dec-2013
     8,        2.4,  83.6,   53,   0.53  ,08:39:31  ,16-Dec-2013
     9,        2.6,  83.6,   53,   0.51  ,08:40:31  ,16-Dec-2013
    10,        2.9,  83.6,   54,   0.48  ,08:41:31  ,16-Dec-2013
    11,        2.4,  83.7,   54,   0.51  ,08:42:31  ,16-Dec-2013
    12,        2.4,  83.6,   54,   0.58  ,08:43:31  ,16-Dec-2013
    13,        3.0,  83.7,   54,   0.67  ,08:44:31  ,16-Dec-2013
    14,        5.8,  83.7,   54,   1.06  ,08:45:31  ,16-Dec-2013
    15,       21.1,  83.8,   54,   2.76  ,08:46:31  ,16-Dec-2013
    16,       19.3,  83.7,   54,   2.45  ,08:47:31  ,16-Dec-2013
    17,       32.2,  83.8,   54,   3.54  ,08:48:31  ,16-Dec-2013
    18,       38.0,  83.7,   54,   3.09  ,08:49:31  ,16-Dec-2013
    19,       32.0,  83.8,   54,   2.97  ,08:50:31  ,16-Dec-2013
    20,        6.5,  83.8,   54,   1.15  ,08:51:31  ,16-Dec-2013
    21,        3.9,  83.8,   54,   0.92  ,08:52:31  ,16-Dec-2013
    22,       10.2,  83.8,   54,   2.26  ,08:53:31  ,16-Dec-2013
    23,        2.8,  83.9,   54,   0.65  ,08:54:31  ,16-Dec-2013
    24,        2.6,  83.9,   54,   0.58  ,08:55:31  ,16-Dec-2013
    25,        2.7,  84.0,   54,   0.52  ,08:56:31  ,16-Dec-2013
    26,        2.5,  84.0,   54,   0.59  ,08:57:31  ,16-Dec-2013
    27,        2.6,  84.0,   54,   0.53  ,08:58:31  ,16-Dec-2013
    28,        2.2,  84.1,   54,   0.50  ,08:59:31  ,16-Dec-2013
    29,        2.4,  84.1,   54,   0.50  ,09:00:31  ,16-Dec-2013
    30,        3.0,  84.1,   53,   0.59  ,09:01:31  ,16-Dec-2013
    31,        2.0,  84.1,   54,   0.51  ,09:02:31  ,16-Dec-2013
    32,        2.4,  84.1,   54,   0.58  ,09:03:31  ,16-Dec-2013
    33,        2.1,  84.2,   54,   0.46  ,09:04:31  ,16-Dec-2013
    34,        2.4,  84.2,   54,   0.50  ,09:05:31  ,16-Dec-2013
    35,        2.6,  84.2,   54,   0.66  ,09:06:31  ,16-Dec-2013
    36,        2.8,  84.3,   54,   0.62  ,09:07:31  ,16-Dec-2013
    37,        2.5,  84.3,   54,   0.58  ,09:08:31  ,16-Dec-2013
    38,        2.5,  84.3,   54,   0.52  ,09:09:31  ,16-Dec-2013
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42,	2.2,	84.3,	54,	0.40	,09:13:31	,16-Dec-2013
43,	2.1,	84.4,	54,	0.38	,09:14:31	,16-Dec-2013
44,	2.5,	84.4,	54,	0.41	,09:15:31	,16-Dec-2013
45,	1.9,	84.4,	54,	0.44	,09:16:31	,16-Dec-2013
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48,	2.3,	84.5,	54,	0.42	,09:19:31	,16-Dec-2013
49,	2.1,	84.5,	54,	0.43	,09:20:31	,16-Dec-2013
50,	2.2,	84.5,	54,	0.43	,09:21:31	,16-Dec-2013
51,	2.5,	84.5,	54,	0.47	,09:22:31	,16-Dec-2013
52,	2.5,	84.5,	54,	0.41	,09:23:31	,16-Dec-2013
53,	2.1,	84.5,	54,	0.45	,09:24:31	,16-Dec-2013
54,	2.1,	84.6,	54,	0.45	,09:25:31	,16-Dec-2013
55,	2.2,	84.6,	54,	0.39	,09:26:31	,16-Dec-2013
56,	2.2,	84.6,	54,	0.39	,09:27:31	,16-Dec-2013
57,	2.2,	84.7,	54,	0.44	,09:28:31	,16-Dec-2013
58,	2.2,	84.6,	54,	0.44	,09:29:31	,16-Dec-2013
59,	2.4,	84.6,	54,	0.50	,09:30:31	,16-Dec-2013
60,	2.3,	84.7,	54,	0.42	,09:31:31	,16-Dec-2013
61,	2.1,	84.7,	54,	0.46	,09:32:31	,16-Dec-2013
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64,	2.2,	84.7,	54,	0.41	,09:35:31	,16-Dec-2013
65,	2.5,	84.7,	54,	0.38	,09:36:31	,16-Dec-2013
66,	2.1,	84.7,	54,	0.39	,09:37:31	,16-Dec-2013
67,	2.4,	84.7,	54,	0.40	,09:38:31	,16-Dec-2013
68,	2.1,	84.7,	54,	0.40	,09:39:31	,16-Dec-2013
69,	2.2,	84.8,	54,	0.37	,09:40:31	,16-Dec-2013
70,	2.2,	84.8,	54,	0.37	,09:41:31	,16-Dec-2013
71,	2.1,	84.8,	54,	0.42	,09:42:31	,16-Dec-2013
72,	2.2,	84.8,	54,	0.44	,09:43:31	,16-Dec-2013
73,	2.0,	84.8,	54,	0.44	,09:44:31	,16-Dec-2013
74,	2.2,	84.9,	54,	0.39	,09:45:31	,16-Dec-2013
75,	2.0,	84.9,	54,	0.40	,09:46:31	,16-Dec-2013
76,	2.5,	85.0,	54,	0.43	,09:47:31	,16-Dec-2013
77,	2.5,	85.0,	54,	0.45	,09:48:31	,16-Dec-2013
78,	2.3,	85.0,	54,	0.57	,09:49:31	,16-Dec-2013
79,	2.4,	85.0,	54,	0.54	,09:50:31	,16-Dec-2013
80,	2.2,	85.0,	54,	0.52	,09:51:31	,16-Dec-2013
81,	2.5,	85.0,	54,	0.49	,09:52:31	,16-Dec-2013
82,	1.9,	85.0,	54,	0.41	,09:53:31	,16-Dec-2013
83,	2.1,	85.0,	54,	0.42	,09:54:31	,16-Dec-2013
84,	2.1,	85.0,	54,	0.42	,09:55:31	,16-Dec-2013
85,	2.3,	85.0,	54,	0.42	,09:56:31	,16-Dec-2013
86,	2.2,	85.0,	54,	0.42	,09:57:31	,16-Dec-2013
87,	2.2,	85.1,	54,	0.47	,09:58:31	,16-Dec-2013
88,	2.1,	85.1,	54,	0.44	,09:59:31	,16-Dec-2013
89,	2.5,	85.1,	54,	0.44	,10:00:31	,16-Dec-2013
90,	2.3,	85.1,	54,	0.48	,10:01:31	,16-Dec-2013
91,	2.1,	85.1,	54,	0.48	,10:02:31	,16-Dec-2013
92,	2.1,	85.1,	54,	0.42	,10:03:31	,16-Dec-2013
94,	2.2,	85.1,	53,	0.45	,10:04:31	,16-Dec-2013
95,	2.0,	85.1,	54,	0.44	,10:05:31	,16-Dec-2013
96,	2.1,	85.1,	54,	0.47	,10:06:31	,16-Dec-2013
97,	2.1,	85.1,	54,	0.54	,10:07:31	,16-Dec-2013
98,	2.2,	85.1,	54,	0.51	,10:08:31	,16-Dec-2013
99,	2.2,	85.1,	54,	0.44	,10:09:31	,16-Dec-2013
100,	2.1,	85.1,	54,	0.46	,10:10:31	,16-Dec-2013
101,	2.0,	85.1,	54,	0.49	,10:11:31	,16-Dec-2013
102,	2.1,	85.1,	54,	0.44	,10:12:31	,16-Dec-2013
103,	1.9,	85.1,	54,	0.44	,10:13:31	,16-Dec-2013
104,	2.0,	85.1,	54,	0.47	,10:14:31	,16-Dec-2013

105,	2.0,	85.1,	54,	0.45	,10:15:31	,16-Dec-2013
106,	2.1,	85.1,	54,	0.40	,10:16:31	,16-Dec-2013
107,	2.1,	85.1,	54,	0.41	,10:17:31	,16-Dec-2013
108,	2.0,	85.1,	54,	0.38	,10:18:31	,16-Dec-2013
109,	2.0,	85.1,	54,	0.37	,10:19:31	,16-Dec-2013
110,	2.0,	85.1,	54,	0.38	,10:20:31	,16-Dec-2013
111,	2.0,	85.0,	54,	0.37	,10:21:31	,16-Dec-2013
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113,	2.3,	85.1,	54,	0.42	,10:23:31	,16-Dec-2013
114,	2.0,	85.1,	54,	0.40	,10:24:31	,16-Dec-2013
115,	2.1,	85.1,	54,	0.41	,10:25:31	,16-Dec-2013
116,	1.8,	85.1,	54,	0.40	,10:26:31	,16-Dec-2013
117,	2.0,	85.1,	54,	0.41	,10:27:31	,16-Dec-2013
118,	1.8,	85.0,	54,	0.41	,10:28:31	,16-Dec-2013
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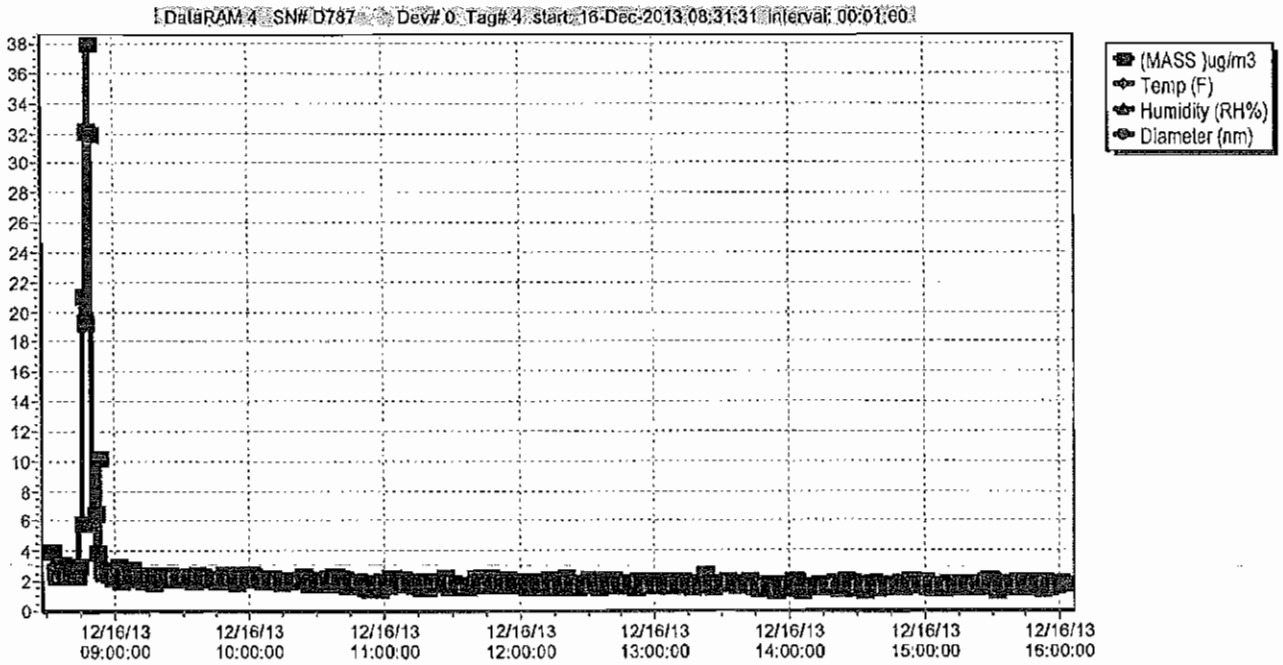
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349,	1.7,	83.2,	55,	0.38	,14:19:31	,16-Dec-2013
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354,	1.8,	83.1,	56,	0.38	,14:24:31	,16-Dec-2013
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360,	1.6,	83.0,	56,	0.36	,14:30:31	,16-Dec-2013

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362,	1.6,	82.9,	56,	0.38	,14:32:31	,16-Dec-2013
363,	1.4,	82.9,	56,	0.37	,14:33:31	,16-Dec-2013
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374,	1.7,	82.7,	56,	0.38	,14:44:31	,16-Dec-2013
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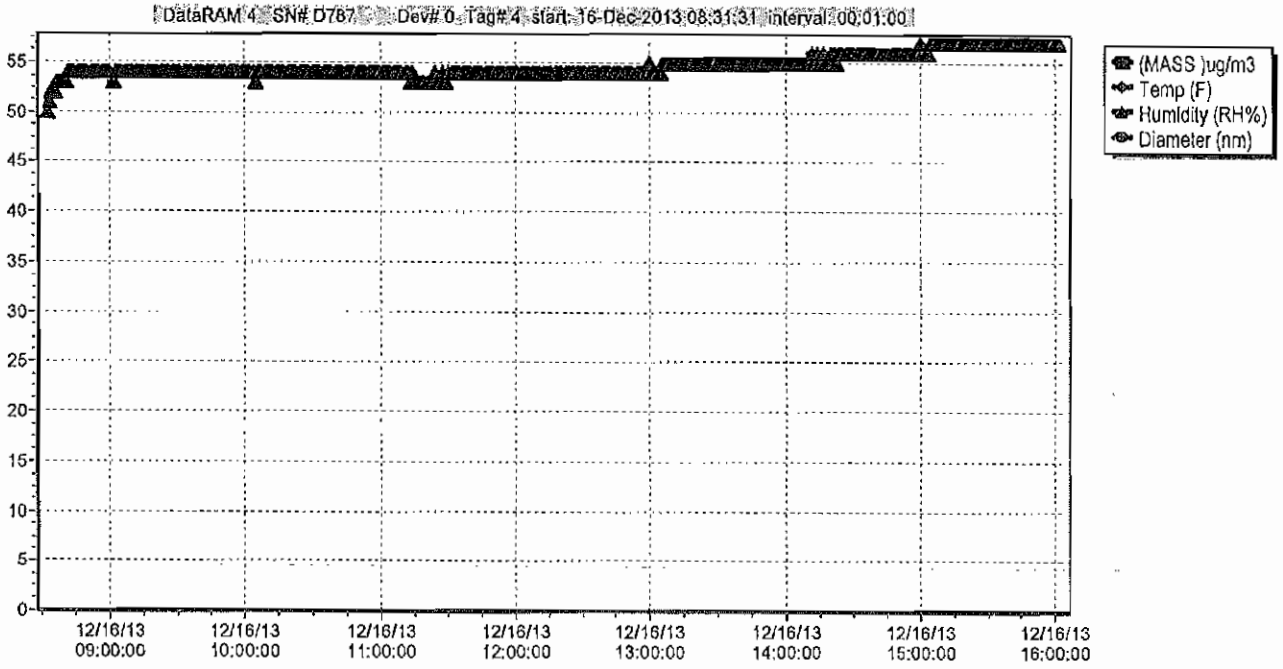
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447,	1.9,	82.4,	57,	0.36	,15:57:31	,16-Dec-2013
448,	1.7,	82.3,	57,	0.35	,15:58:31	,16-Dec-2013
449,	1.9,	82.4,	57,	0.35	,15:59:31	,16-Dec-2013
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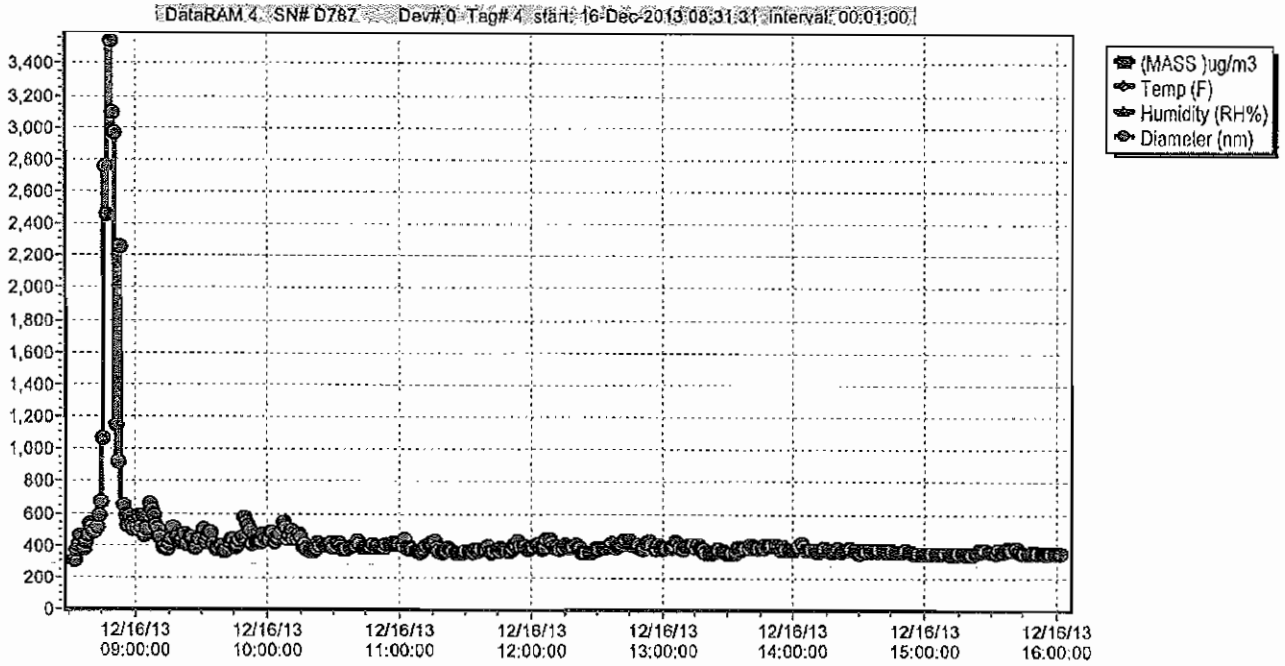


CONFIDENTIAL PURSUANT TO EO 13526

DataRAM 4 SN# D787 Dat# 0 Tag# 4 Start: 16-Dec-2013 08:31:31 Interval: 00:01:00
(MASS)ug/m3
Temp (F)
Humidity (RH%)
Diameter (nm)
85
80
75
70
65
60
55
50
45
40
35
30
25
20
15
10
5
0
12/16/13 09:00:00
12/16/13 10:00:00
12/16/13 11:00:00
12/16/13 12:00:00
12/16/13 13:00:00
12/16/13 14:00:00
12/16/13 15:00:00
12/16/13 16:00:00



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APPENDIX 5
TOWER #2 AIR PARTICULATE MONITORING

"Model Number", "DataRAM 4 ", 106
"Serial no. ", "D786 "
"Device no. ", HOMECA RECYCLING,PR OLEFINS TORRE 2 SUR
"Tag Number ", 9
"Start Time ", 09:05:15
"Start Date ", 16-Dec-2013
"Log Period ", 00:01:00
"Number ", 381
"CalFactor ", 1.000000
"Unit ", 0
"Unit Name ", "(MASS)ug/m3"
"SIZE_CORRECT", "ENABLED"
"TEMPUNITS ", C
"Max MASS ", 73.527910
"Max MASS @ ", 372 ,15:17:15 ,16-Dec-2013
"Avg MASS ", 1.056661
"Max Diam ", 2.716076
"Max Diam @ ", 256 ,13:21:15 ,16-Dec-2013
"Avg Diam ", 0.379703
"ALARM ", "DISABLED"
"ALARM_LEVEL ", 0.0
"AUTO_ZERO ", "DISABLED"
"AZ INTERVAL ", 1
"Errors ", 0000
record,"(MASS)ug/m3", Temp, RHumidity, Diameter

1,	4.3,	25.4,	56,	0.4144	,09:06:15	,16-Dec-2013
2,	1.4,	25.6,	59,	0.4464	,09:07:15	,16-Dec-2013
3,	1.4,	25.9,	61,	0.4373	,09:08:15	,16-Dec-2013
4,	1.4,	26.1,	62,	0.4354	,09:09:15	,16-Dec-2013
5,	1.5,	26.3,	62,	0.4777	,09:10:15	,16-Dec-2013
6,	1.2,	26.6,	63,	0.4407	,09:11:15	,16-Dec-2013
7,	1.0,	26.7,	63,	0.4243	,09:12:15	,16-Dec-2013
8,	0.8,	26.9,	64,	0.4003	,09:13:15	,16-Dec-2013
9,	1.3,	27.2,	64,	0.4369	,09:14:15	,16-Dec-2013
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11,	1.1,	27.6,	64,	0.4245	,09:16:15	,16-Dec-2013
12,	1.2,	27.9,	64,	0.3877	,09:17:15	,16-Dec-2013
13,	1.0,	28.1,	63,	0.3841	,09:18:15	,16-Dec-2013
14,	1.2,	28.4,	63,	0.3967	,09:19:15	,16-Dec-2013
15,	0.8,	28.6,	63,	0.3780	,09:20:15	,16-Dec-2013
16,	0.8,	28.9,	62,	0.3643	,09:21:15	,16-Dec-2013
17,	1.0,	29.1,	62,	0.3736	,09:22:15	,16-Dec-2013
18,	0.5,	29.4,	61,	0.3597	,09:23:15	,16-Dec-2013
19,	1.0,	29.6,	60,	0.3771	,09:24:15	,16-Dec-2013
20,	0.7,	29.8,	60,	0.3600	,09:25:15	,16-Dec-2013
21,	0.6,	30.0,	59,	0.3473	,09:26:15	,16-Dec-2013
22,	0.5,	30.2,	58,	0.3464	,09:27:15	,16-Dec-2013
23,	0.7,	30.3,	58,	0.3491	,09:28:15	,16-Dec-2013
24,	0.4,	30.5,	57,	0.3449	,09:29:15	,16-Dec-2013
25,	0.3,	30.6,	57,	0.3417	,09:30:15	,16-Dec-2013
26,	0.0,	30.8,	57,	0.3382	,09:31:15	,16-Dec-2013
27,	0.4,	30.9,	56,	0.3452	,09:32:15	,16-Dec-2013
28,	0.2,	31.0,	56,	0.3415	,09:33:15	,16-Dec-2013
29,	0.2,	31.2,	56,	0.3414	,09:34:15	,16-Dec-2013
30,	0.3,	31.3,	55,	0.3430	,09:35:15	,16-Dec-2013
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32,	0.1,	31.7,	55,	0.3391	,09:37:15	,16-Dec-2013
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41,	0.0,	32.1,	52,	0.3376	,09:46:15	,16-Dec-2013
42,	0.2,	32.1,	52,	0.3401	,09:47:15	,16-Dec-2013
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44,	0.0,	32.2,	51,	0.3377	,09:49:15	,16-Dec-2013
45,	0.6,	32.2,	51,	0.3284	,09:50:15	,16-Dec-2013
46,	0.1,	32.2,	51,	0.3345	,09:51:15	,16-Dec-2013
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326,    0.6,  37.3,  39,  0.3453  ,14:31:15  ,16-Dec-2013
327,    0.0,  37.3,  39,  0.3376  ,14:32:15  ,16-Dec-2013
328,    0.2,  37.3,  39,  0.3407  ,14:33:15  ,16-Dec-2013
329,    0.1,  37.2,  39,  0.3392  ,14:34:15  ,16-Dec-2013
330,    0.9,  37.2,  39,  0.3519  ,14:35:15  ,16-Dec-2013
331,    1.6,  37.2,  39,  0.3921  ,14:36:15  ,16-Dec-2013
332,    0.9,  37.2,  39,  0.3738  ,14:37:15  ,16-Dec-2013
333,    0.2,  37.2,  39,  0.3450  ,14:38:15  ,16-Dec-2013
334,    0.8,  37.2,  39,  0.3613  ,14:39:15  ,16-Dec-2013
335,    0.7,  37.1,  39,  0.3621  ,14:40:15  ,16-Dec-2013
336,    0.3,  37.1,  39,  0.3495  ,14:41:15  ,16-Dec-2013
337,    1.7,  37.0,  39,  0.4208  ,14:42:15  ,16-Dec-2013
338,    0.6,  37.0,  39,  0.3775  ,14:43:15  ,16-Dec-2013
339,    0.2,  37.0,  39,  0.3511  ,14:44:15  ,16-Dec-2013
340,    0.2,  37.0,  39,  0.3479  ,14:45:15  ,16-Dec-2013
341,    0.3,  36.9,  39,  0.3574  ,14:46:15  ,16-Dec-2013
342,    0.2,  36.9,  39,  0.3464  ,14:47:15  ,16-Dec-2013
343,    0.6,  36.9,  39,  0.3643  ,14:48:15  ,16-Dec-2013
344,    1.7,  36.9,  39,  0.4086  ,14:49:15  ,16-Dec-2013
345,    1.4,  36.8,  39,  0.4982  ,14:50:15  ,16-Dec-2013
346,    0.2,  36.8,  39,  0.3516  ,14:51:15  ,16-Dec-2013
347,    0.3,  36.8,  39,  0.3523  ,14:52:15  ,16-Dec-2013
348,    2.4,  36.8,  39,  0.4662  ,14:53:15  ,16-Dec-2013
349,    1.0,  36.8,  39,  0.3888  ,14:54:15  ,16-Dec-2013
350,    7.3,  36.8,  39,  1.1978  ,14:55:15  ,16-Dec-2013
351,    0.2,  36.8,  39,  0.3566  ,14:56:15  ,16-Dec-2013
352,    0.5,  36.8,  39,  0.3996  ,14:57:15  ,16-Dec-2013
353,    0.4,  36.8,  38,  0.3774  ,14:58:15  ,16-Dec-2013
354,    0.2,  36.8,  39,  0.3474  ,14:59:15  ,16-Dec-2013
355,    0.1,  36.8,  38,  0.3456  ,15:00:15  ,16-Dec-2013
356,    0.2,  36.7,  39,  0.3505  ,15:01:15  ,16-Dec-2013
357,    0.6,  36.7,  39,  0.3648  ,15:02:15  ,16-Dec-2013
358,    0.1,  36.7,  39,  0.3425  ,15:03:15  ,16-Dec-2013
359,    0.2,  36.7,  39,  0.3440  ,15:04:15  ,16-Dec-2013
```

```
360,    0.3,  36.7,  39,  0.3477  ,15:05:15  ,16-Dec-2013
361,    0.1,  36.7,  39,  0.3397  ,15:06:15  ,16-Dec-2013
362,    0.8,  36.7,  39,  0.3642  ,15:07:15  ,16-Dec-2013
363,    0.1,  36.7,  39,  0.3387  ,15:08:15  ,16-Dec-2013
364,    0.0,  36.7,  39,  0.3380  ,15:09:15  ,16-Dec-2013
365,    0.1,  36.7,  38,  0.3388  ,15:10:15  ,16-Dec-2013
366,    0.8,  36.7,  38,  0.3429  ,15:11:15  ,16-Dec-2013
367,    0.1,  36.7,  38,  0.3375  ,15:12:15  ,16-Dec-2013
368,    0.2,  36.6,  38,  0.3376  ,15:13:15  ,16-Dec-2013
369,    0.1,  36.6,  38,  0.3376  ,15:14:15  ,16-Dec-2013
370,    0.0,  36.6,  38,  0.3375  ,15:15:15  ,16-Dec-2013
371,   30.7,  36.6,  38,  0.5132  ,15:16:15  ,16-Dec-2013
372,   73.5,  36.5,  38,  2.2697  ,15:17:15  ,16-Dec-2013
373,    0.1,  36.5,  38,  0.3553  ,15:18:15  ,16-Dec-2013
374,    0.1,  36.5,  38,  0.3512  ,15:19:15  ,16-Dec-2013
375,    0.1,  36.5,  38,  0.3575  ,15:20:15  ,16-Dec-2013
376,    0.6,  36.4,  38,  0.4618  ,15:21:15  ,16-Dec-2013
377,    0.2,  36.4,  38,  0.3582  ,15:22:15  ,16-Dec-2013
378,    0.0,  36.4,  38,  0.3384  ,15:23:15  ,16-Dec-2013
379,    0.0,  36.4,  38,  0.3381  ,15:24:15  ,16-Dec-2013
380,    0.0,  36.4,  37,  0.3386  ,15:25:15  ,16-Dec-2013
381,    0.1,  36.4,  37,  0.3422  ,15:26:15  ,16-Dec-2013
```

DataRAM 4 SN# 0786 Dev# 2 Tag# 9 start: 16-Dec-2013 09:05:15 interval: 00:01:00
(MASS)ug/m3
Temp (C)
Humidity (RH%)
Diameter (nm)
70
65
60
55
50
45
40
35
30
25
20
15
10
5
0
12/16/13 09:30:00
12/16/13 10:00:00
12/16/13 10:30:00
12/16/13 11:00:00
12/16/13 11:30:00
12/16/13 12:00:00
12/16/13 12:30:00
12/16/13 13:00:00
12/10/13 13:30:00
12/16/13 14:00:00
12/16/13 14:30:00
12/16/13 15:00:00

DataRAM 4 SN#:D785 Dev#:2 Tag#:9 start: 16-Dec-2013 09:05:15 interval: 00:01:00
(MASS)ug/m3
Temp (C)
Humidity (RH%)
Diameter (nm)
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
36
38
12/16/13 09:30:00
12/16/13 10:00:00
12/16/13 10:30:00
12/16/13 11:00:00
12/16/13 11:30:00
12/16/13 12:00:00
12/16/13 12:30:00
12/16/13 13:00:00
12/16/13 13:30:00
12/16/13 14:00:00
12/16/13 14:30:00
12/16/13 15:00:00

DataRAM 4 S/N# D786 Dev# 2 Tag# 9 Start: 16-Dec-2013 09:05:15 Interval: 00:01:00
(MASS)ug/m3
Temp (C)
Humidity (RH%)
Diameter (nm)
0
5
10
15
20
25
30
35
40
45
50
55
60
12/16/13 09:30:00
12/16/13 10:00:00
12/16/13 10:30:00
12/16/13 11:00:00
12/16/13 11:30:00
12/16/13 12:00:00
12/16/13 12:30:00
12/16/13 13:00:00
12/16/13 13:30:00
12/16/13 14:00:00
12/16/13 14:30:00
12/16/13 15:00:00
12/16/13

DataRAM 4 SN# D7866 Dev# 2 Tag# 9 start: 16-Dec-2013 09:05:15 Interval: 00:01:00
(MASS)ug/m3
Temp (C)
Humidity (RH%)
Diameter (nm)
2,600
2,400
2,200
2,000
1,800
1,600
1,400
1,200
1,000
800
600
400
200
0
12/16/13 09:30:00
12/16/13 10:00:00
12/16/13 10:30:00
12/16/13 11:00:00
12/16/13 11:30:00
12/16/13 12:00:00
12/16/13 12:30:00
12/16/13 13:00:00
12/16/13 13:30:00
12/16/13 14:00:00
12/16/13 14:30:00
12/16/13 15:00:00

ALTOL
Environmental Services, Inc.

P.O Box 359 Mercedita, PR 00715-0359

December 30, 2013

Mr. Benjamin Cintrón
Project Manager
Homeca Recycling

RE: AIR PARTICULATE MONITORING REPORT AT PUERTO RICO OLEFINES, PEÑUELAS, PR.

Dear Mr. Cintrón:

Altol Environmental Services, Inc., submits for your review the results obtained during the air particulates monitoring. These were performed following Altol operational procedures.

Altol's technician installed and removed the Data Ram-4 COM equipment from the Towers located at Puerto Rico Olefines in Peñuelas, PR. The equipment collected data every minute for approximately a eight (8) hour period. Also, during the installation and removal of the equipment the wind direction, wind velocity, weather and other conditions were documented as supplementary information. The wind velocity was measured using the Kestrell 4000 equipment.

Appendix 1 presents **Table 1** which summarizes the results of information collected at the towers. The data collected during this period indicated levels of particulate material (PM_{10}) that do not exceed the regulated limits of the United States Environmental Protection Agency (USEPA) of 150 $\mu g/m^3$ (40 CFR part 50) (**Appendix 2**). The information collected from each tower is presented in graphics in terms of mass and dates (**Appendix 3**).

The following Appendices present the tables and graphics results for mass ($\mu g/m^3$), temperature (^oF), relative humidity (RH) and diameter (nm), obtained from each Data Ram-4 COM equipment:

- **Appendix 4**, correspond to Tower # 1, December 17, 2013.
- **Appendix 5**, correspond to Tower # 2, December 17, 2013.

If you need any further information contact us at your earliest convenience at (787)-835-4242 or (787) 430-6141.

Statement of Authenticity,
Altol Environmental Services, Inc.

Certify that the results are complete and accurate

Cordially,

Carlos E. Ocasio Feliciano
Environmental Higiene

Parque Industrial Sabanetas ▪ Edificio M-1380 ▪ Ponce, PR 00715
Tel. (787) 835-4242 ▪ Fax (787) 835-2004

APPENDIX 1
FUGITIVE DUSTS SAMPLING AND TEST RESULTS

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TABLE 1. FUGITIVE DUSTS SAMPLING AND ENVIRONMENTAL CONDITIONS

Air Monitoring Date	Air Monitoring Tower	Latitude and Longitude	Equipment Data Ram-4 COM						Equipment Kestrell Model 4000		Field Observation				Sampling Personnel
			Equipment Model/ID#	Start Time	Finish Time	Avg Mass ($\mu g/m^3$)	Regulatory Limits (µg/m3)	Avg Diameter (nm)	Wind Velocity Start Time (mph)	Wind Velocity Finish Time (mph)	Weather Condition Start Time	Weather Condition Finish Time	Wind Direction Start Time	Wind Direction Finish Time	
12/17/2013 12/17/2013	1		DR4/D788	8:16	15:25	1.24	150	0.39	3.4	4.3	Sunny	Cloudy	North West	North West	JS
12/17/2013 12/17/2013	2		DR4/D787	8:27	15:30	2.64	150	0.50	2.4	3.4	Sunny	Cloudy	North West	North West	JS

Standard Limit = 150 µg/m^3

Leyend

N/A - Not Aplicable
RV - Robert Velazquez
JRR- Jaime Rivera Rivera
JR- Juan Rivera
JC- Jose Cruz
NH Nehemias Hernandez
JS- José Santos

Towers Location:

Tower #1: PR-503
Tower #2: Disposal Area 3A
Tower #3: Access Road #1
Tower #4: Laboratory Area

ALTOL
Environmental Services, Inc.

Statement of Authenticity,
Certify that the results are complete and accurate

Cordially,

Carlos E. Ocasio Feliciano
Environmental Higiene

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Page 443 of 1,639

APPENDIX 2
USEPA REGULATION PARAMETER

National Ambient Air Quality Standards (NAAQS)

The Clean Air Act, which was last amended in 1990, requires EPA to set National Ambient Air Quality Standards (40 CFR part 50) for pollutants considered harmful to public health and the environment. The Clean Air Act established two types of national air quality standards. *Primary standards* set limits to protect public health, including the health of "sensitive" populations such as asthmatics, children, and the elderly. *Secondary standards* set limits to protect public welfare, including protection against decreased visibility, damage to animals, crops, vegetation, and buildings.

The EPA Office of Air Quality Planning and Standards (OAQPS) has set National Ambient Air Quality Standards for six principal pollutants, which are called "criteria" pollutants. They are listed below. Units of measure for the standards are parts per million (ppm) by volume, milligrams per cubic meter of air (mg/m^3), and micrograms per cubic meter of air ($\mu g/m^3$).

National Ambient Air Quality Standards

	Primary Standards		Secondary Standards	
Pollutant	Level	Averaging Time	Level	Averaging Time
Carbon Monoxide	9 ppm (10 mg/m^3)	8-hour [1]	None	
	35 ppm (40 mg/m^3)	1-hour [1]		
Lead	0.15 $\mu g/m^3$ [2]	Rolling 3-Month Average	Same as Primary	
	1.5 $\mu g/m^3$	Quarterly Average	Same as Primary	
Nitrogen Dioxide	0.053 ppm (100 $\mu g/m^3$)	Annual (Arithmetic Mean)	Same as Primary	
Particulate Matter (PM_{10})	150 $\mu g/m^3$	24-hour [3]	Same as Primary	
Particulate Matter ($PM_{2.5}$)	15.0 $\mu g/m^3$	Annual [4] (Arithmetic Mean)	Same as Primary	
	35 $\mu g/m^3$	24-hour [5]	Same as Primary	
Ozone	0.075 ppm (2008 std)	8-hour [6]	Same as Primary	
	0.08 ppm (1997 std)	8-hour [7]	Same as Primary	
	0.12 ppm	1-hour [8] (Applies only in limited areas)	Same as Primary	
Sulfur Dioxide	0.03 ppm	Annual (Arithmetic Mean)	0.5 ppm (1300 $\mu g/m^3$)	3-hour [1]
	0.14 ppm	24-hour [1]		

[1] Not to be exceeded more than once per year.
[2] Final rule signed October 15, 2008.
[3] Not to be exceeded more than once per year on average over 3 years.
[4] To attain this standard, the 3-year average of the weighted annual mean PM2.5 concentrations from single or multiple community-oriented monitors must not exceed 15.0 µg/m3.
[5] To attain this standard, the 3-year average of the 98th percentile of 24-hour concentrations at each population-oriented monitor within an area must not exceed 35 µg/m3 (effective December 17, 2006).
[6] To attain this standard, the 3-year average of the fourth-highest daily maximum 8-hour average ozone concentrations measured at each monitor within an area over each year must not exceed 0.075 ppm. (effective May 27, 2008)
[7] (a) To attain this standard, the 3-year average of the fourth-highest daily maximum 8-hour average ozone concentrations measured at each monitor within an area over each year must not exceed 0.08 ppm.

(b) The 1997 standard—and the implementation rules for that standard—will remain in place for implementation purposes as EPA undertakes rulemaking to address the transition from the 1997 ozone standard to the 2008 ozone standard.

[8] (a) The standard is attained when the expected number of days per calendar year with maximum hourly average concentrations above 0.12 ppm is ≤ 1.

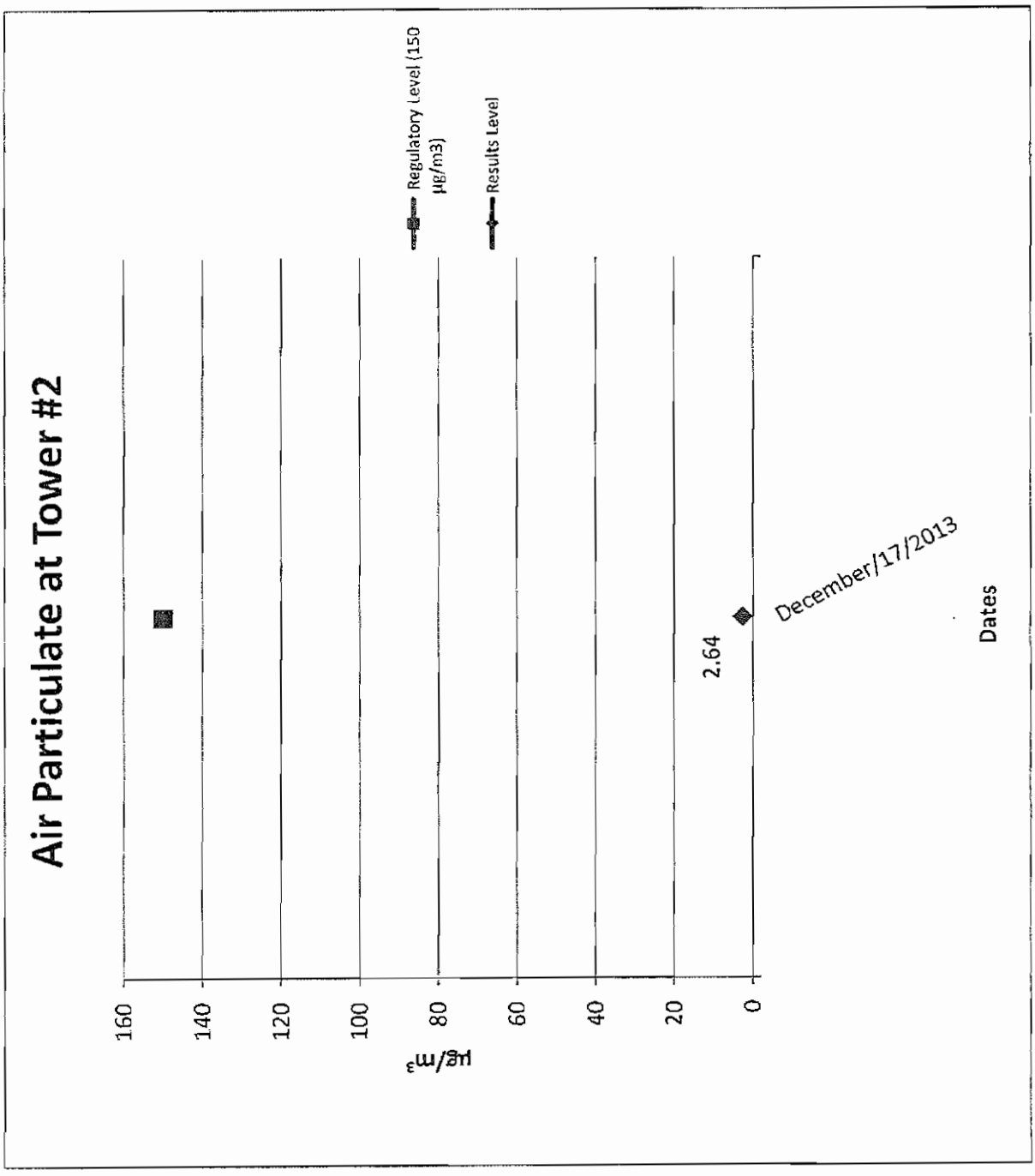
(b) As of June 15, 2005 EPA revoked the 1-hour ozone standard in all areas except the 8-hour ozone nonattainment Early Action Compact (EAC) Areas.

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APPENDIX 3
GRAPHICS OF MASS vs DATE

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Air Particulate at Tower #2
Regulatory Level (150 µg/m3)
Results Level
µg/m³
160
140
120
100
80
60
40
20
0
2.64
December/17/2013
Dates

APPENDIX 4
TOWER #1 AIR PARTICULATE MONITORING

```
"Model Number", "DataRAM 4 ", 106
"Serial no.  ", "D788      "
"Device no.  ", 1
"Tag Number  ", 58
"Start Time  ", 08:15:59
"Start Date  ", 17-Dec-2013
"Log Period  ", 00:01:00
"Number      ", 430
"CalFactor   ", 1.000000
"Unit        ", 0
"Unit Name   ", "(MASS )ug/m3"
"SIZE_CORRECT", "ENABLED"
"TEMPUNITS   ", F
"Max MASS    ", 6.142350
"Max MASS  @ ", 1  ,08:16:59  ,17-Dec-2013
"Avg MASS    ", 1.239214
"Max Diam    ", 0.708899
"Max Diam @  ", 387  ,14:42:59  ,17-Dec-2013
"Avg Diam    ", 0.387288
"ALARM       ", "DISABLED"
"ALARM_LEVEL ", 0.0
"AUTO_ZERO   ", "DISABLED"
"AZ INTERVAL ", 1
"Errors      ", 0000
record,"(MASS )ug/m3", Temp, RHumidity, Diameter
     1,        6.1,  77.0,   50,   0.5522  ,08:16:59  ,17-Dec-2013
     2,        2.8,  77.2,   54,   0.5167  ,08:17:59  ,17-Dec-2013
     3,        3.2,  77.4,   56,   0.4553  ,08:18:59  ,17-Dec-2013
     4,        3.0,  77.7,   57,   0.5313  ,08:19:59  ,17-Dec-2013
     5,        2.5,  78.0,   58,   0.4841  ,08:20:59  ,17-Dec-2013
     6,        2.4,  78.3,   59,   0.4094  ,08:21:59  ,17-Dec-2013
     7,        2.5,  78.6,   59,   0.4596  ,08:22:59  ,17-Dec-2013
     8,        2.7,  78.9,   59,   0.4705  ,08:23:59  ,17-Dec-2013
     9,        3.1,  79.2,   59,   0.5854  ,08:24:59  ,17-Dec-2013
    10,        3.0,  79.5,   60,   0.4742  ,08:25:59  ,17-Dec-2013
    11,        3.0,  79.9,   60,   0.6746  ,08:26:59  ,17-Dec-2013
    12,        3.0,  80.1,   59,   0.6127  ,08:27:59  ,17-Dec-2013
    13,        2.6,  80.5,   59,   0.5269  ,08:28:59  ,17-Dec-2013
    14,        2.0,  80.8,   59,   0.4385  ,08:29:59  ,17-Dec-2013
    15,        2.0,  81.1,   58,   0.3855  ,08:30:59  ,17-Dec-2013
    16,        1.7,  81.5,   58,   0.3694  ,08:31:59  ,17-Dec-2013
    17,        1.9,  81.8,   57,   0.3813  ,08:32:59  ,17-Dec-2013
    18,        2.1,  82.1,   57,   0.4041  ,08:33:59  ,17-Dec-2013
    19,        1.9,  82.5,   56,   0.3843  ,08:34:59  ,17-Dec-2013
    20,        1.9,  82.8,   56,   0.3967  ,08:35:59  ,17-Dec-2013
    21,        1.8,  83.0,   56,   0.4077  ,08:36:59  ,17-Dec-2013
    22,        1.9,  83.3,   56,   0.4137  ,08:37:59  ,17-Dec-2013
    23,        1.7,  83.5,   55,   0.3859  ,08:38:59  ,17-Dec-2013
    24,        1.7,  83.7,   55,   0.3742  ,08:39:59  ,17-Dec-2013
    25,        2.1,  83.9,   54,   0.3820  ,08:40:59  ,17-Dec-2013
    26,        2.2,  84.2,   54,   0.3584  ,08:41:59  ,17-Dec-2013
    27,        1.5,  84.4,   54,   0.3463  ,08:42:59  ,17-Dec-2013
    28,        1.6,  84.6,   53,   0.3471  ,08:43:59  ,17-Dec-2013
    29,        1.7,  84.8,   53,   0.3530  ,08:44:59  ,17-Dec-2013
    30,        1.7,  85.1,   53,   0.3617  ,08:45:59  ,17-Dec-2013
    31,        1.5,  85.2,   53,   0.3716  ,08:46:59  ,17-Dec-2013
    32,        1.5,  85.4,   52,   0.3872  ,08:47:59  ,17-Dec-2013
    33,        1.8,  85.6,   52,   0.3950  ,08:48:59  ,17-Dec-2013
    34,        1.7,  85.8,   52,   0.3913  ,08:49:59  ,17-Dec-2013
    35,        1.7,  86.0,   52,   0.3891  ,08:50:59  ,17-Dec-2013
    36,        1.4,  86.2,   51,   0.3798  ,08:51:59  ,17-Dec-2013
    37,        1.5,  86.4,   51,   0.3825  ,08:52:59  ,17-Dec-2013
    38,        1.4,  86.7,   51,   0.3774  ,08:53:59  ,17-Dec-2013
    39,        1.5,  86.9,   51,   0.3827  ,08:54:59  ,17-Dec-2013
```

40,	1.6,	87.1,	50,	0.3867	,08:55:59	,17-Dec-2013
41,	1.6,	87.3,	50,	0.3870	,08:56:59	,17-Dec-2013
42,	1.4,	87.4,	50,	0.3796	,08:57:59	,17-Dec-2013
43,	1.7,	87.6,	50,	0.3907	,08:58:59	,17-Dec-2013
44,	1.9,	87.7,	49,	0.3915	,08:59:59	,17-Dec-2013
45,	1.5,	87.8,	49,	0.4295	,09:00:59	,17-Dec-2013
46,	1.8,	87.9,	49,	0.4781	,09:01:59	,17-Dec-2013
47,	1.8,	87.9,	49,	0.5043	,09:02:59	,17-Dec-2013
48,	1.9,	87.9,	49,	0.4776	,09:03:59	,17-Dec-2013
49,	1.6,	87.9,	49,	0.4188	,09:04:59	,17-Dec-2013
50,	1.8,	88.0,	49,	0.3992	,09:05:59	,17-Dec-2013
51,	2.3,	88.0,	49,	0.4511	,09:06:59	,17-Dec-2013
52,	1.7,	88.0,	49,	0.4272	,09:07:59	,17-Dec-2013
53,	1.6,	87.9,	49,	0.3895	,09:08:59	,17-Dec-2013
54,	1.9,	87.9,	49,	0.3974	,09:09:59	,17-Dec-2013
55,	1.6,	87.9,	49,	0.3879	,09:10:59	,17-Dec-2013
56,	1.7,	87.8,	49,	0.4261	,09:11:59	,17-Dec-2013
57,	1.6,	87.8,	49,	0.4560	,09:12:59	,17-Dec-2013
58,	1.5,	87.7,	50,	0.4715	,09:13:59	,17-Dec-2013
59,	1.7,	87.6,	50,	0.4747	,09:14:59	,17-Dec-2013
60,	1.6,	87.6,	50,	0.4273	,09:15:59	,17-Dec-2013
61,	1.3,	87.5,	50,	0.4080	,09:16:59	,17-Dec-2013
62,	1.8,	87.5,	50,	0.4359	,09:17:59	,17-Dec-2013
63,	1.5,	87.4,	51,	0.4226	,09:18:59	,17-Dec-2013
64,	1.4,	87.4,	51,	0.4350	,09:19:59	,17-Dec-2013
65,	1.7,	87.4,	51,	0.4410	,09:20:59	,17-Dec-2013
66,	1.6,	87.4,	51,	0.4067	,09:21:59	,17-Dec-2013
67,	1.4,	87.4,	51,	0.4250	,09:22:59	,17-Dec-2013
68,	0.9,	87.4,	51,	0.3925	,09:23:59	,17-Dec-2013
69,	1.3,	87.3,	51,	0.4007	,09:24:59	,17-Dec-2013
70,	1.8,	87.3,	52,	0.3549	,09:25:59	,17-Dec-2013
71,	1.4,	87.3,	52,	0.3479	,09:26:59	,17-Dec-2013
72,	1.0,	87.2,	52,	0.3449	,09:27:59	,17-Dec-2013
73,	0.8,	87.2,	52,	0.3433	,09:28:59	,17-Dec-2013
74,	0.8,	87.0,	52,	0.3431	,09:29:59	,17-Dec-2013
75,	0.7,	87.0,	52,	0.3422	,09:30:59	,17-Dec-2013
76,	1.3,	86.9,	52,	0.3466	,09:31:59	,17-Dec-2013
77,	1.0,	86.8,	53,	0.3448	,09:32:59	,17-Dec-2013
78,	1.3,	86.6,	53,	0.3468	,09:33:59	,17-Dec-2013
79,	1.2,	86.5,	53,	0.3457	,09:34:59	,17-Dec-2013
80,	1.0,	86.5,	53,	0.3442	,09:35:59	,17-Dec-2013
81,	1.1,	86.4,	53,	0.3451	,09:36:59	,17-Dec-2013
82,	1.2,	86.4,	54,	0.3461	,09:37:59	,17-Dec-2013
83,	1.3,	86.3,	54,	0.3467	,09:38:59	,17-Dec-2013
84,	1.3,	86.3,	54,	0.3468	,09:39:59	,17-Dec-2013
85,	1.3,	86.3,	54,	0.3471	,09:40:59	,17-Dec-2013
86,	1.3,	86.3,	54,	0.3466	,09:41:59	,17-Dec-2013
87,	1.4,	86.3,	54,	0.3477	,09:42:59	,17-Dec-2013
88,	1.2,	86.2,	54,	0.3464	,09:43:59	,17-Dec-2013
89,	1.4,	86.2,	54,	0.3477	,09:44:59	,17-Dec-2013
90,	1.2,	86.2,	54,	0.3462	,09:45:59	,17-Dec-2013
91,	1.3,	86.2,	54,	0.3565	,09:46:59	,17-Dec-2013
92,	1.3,	86.2,	54,	0.3630	,09:47:59	,17-Dec-2013
93,	1.6,	86.2,	54,	0.3688	,09:48:59	,17-Dec-2013
94,	1.5,	86.3,	54,	0.3702	,09:49:59	,17-Dec-2013
95,	1.4,	86.4,	54,	0.3691	,09:50:59	,17-Dec-2013
96,	1.5,	86.5,	54,	0.3818	,09:51:59	,17-Dec-2013
97,	1.5,	86.5,	54,	0.4013	,09:52:59	,17-Dec-2013
98,	1.5,	86.5,	54,	0.4046	,09:53:59	,17-Dec-2013
99,	1.6,	86.7,	54,	0.4201	,09:54:59	,17-Dec-2013
100,	1.4,	86.9,	54,	0.4127	,09:55:59	,17-Dec-2013
101,	1.8,	87.0,	54,	0.4197	,09:56:59	,17-Dec-2013
102,	1.5,	87.2,	54,	0.3846	,09:57:59	,17-Dec-2013
103,	1.6,	87.3,	53,	0.3860	,09:58:59	,17-Dec-2013

104,	1.8,	87.5,	53,	0.3958	,09:59:59	,17-Dec-2013
105,	1.8,	87.7,	53,	0.3936	,10:00:59	,17-Dec-2013
106,	1.7,	87.8,	53,	0.3899	,10:01:59	,17-Dec-2013
107,	1.7,	88.0,	53,	0.3810	,10:02:59	,17-Dec-2013
108,	1.7,	88.1,	53,	0.3732	,10:03:59	,17-Dec-2013
109,	1.4,	88.3,	52,	0.3678	,10:04:59	,17-Dec-2013
110,	1.4,	88.6,	52,	0.3631	,10:05:59	,17-Dec-2013
111,	1.3,	88.7,	52,	0.3585	,10:06:59	,17-Dec-2013
112,	1.5,	89.0,	52,	0.3630	,10:07:59	,17-Dec-2013
113,	1.4,	89.1,	51,	0.3596	,10:08:59	,17-Dec-2013
114,	1.4,	89.3,	51,	0.3603	,10:09:59	,17-Dec-2013
115,	1.4,	89.5,	51,	0.3601	,10:10:59	,17-Dec-2013
116,	1.3,	89.7,	51,	0.3581	,10:11:59	,17-Dec-2013
117,	0.9,	89.8,	51,	0.3531	,10:12:59	,17-Dec-2013
118,	1.0,	89.9,	50,	0.3549	,10:13:59	,17-Dec-2013
119,	0.8,	89.9,	50,	0.3508	,10:14:59	,17-Dec-2013
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121,	0.6,	90.1,	50,	0.3470	,10:16:59	,17-Dec-2013
122,	0.7,	90.3,	49,	0.3491	,10:17:59	,17-Dec-2013
123,	0.7,	90.4,	49,	0.3498	,10:18:59	,17-Dec-2013
124,	0.8,	90.5,	49,	0.3507	,10:19:59	,17-Dec-2013
125,	0.5,	90.6,	49,	0.3467	,10:20:59	,17-Dec-2013
126,	0.7,	90.8,	49,	0.3494	,10:21:59	,17-Dec-2013
127,	0.9,	90.9,	49,	0.3516	,10:22:59	,17-Dec-2013
128,	0.6,	91.1,	48,	0.3482	,10:23:59	,17-Dec-2013
129,	0.6,	91.3,	48,	0.3472	,10:24:59	,17-Dec-2013
130,	0.8,	91.4,	48,	0.3514	,10:25:59	,17-Dec-2013
131,	0.9,	91.5,	48,	0.3531	,10:26:59	,17-Dec-2013
132,	0.8,	91.5,	47,	0.3521	,10:27:59	,17-Dec-2013
133,	0.8,	91.6,	47,	0.3505	,10:28:59	,17-Dec-2013
134,	0.8,	91.6,	46,	0.3518	,10:29:59	,17-Dec-2013
135,	0.8,	91.6,	46,	0.3501	,10:30:59	,17-Dec-2013
136,	0.8,	91.7,	46,	0.3518	,10:31:59	,17-Dec-2013
137,	0.8,	91.7,	46,	0.3520	,10:32:59	,17-Dec-2013
138,	0.7,	91.8,	46,	0.3493	,10:33:59	,17-Dec-2013
139,	0.7,	91.9,	46,	0.3506	,10:34:59	,17-Dec-2013
140,	0.9,	91.9,	46,	0.3523	,10:35:59	,17-Dec-2013
141,	0.7,	92.1,	46,	0.3484	,10:36:59	,17-Dec-2013
142,	1.1,	92.2,	45,	0.3561	,10:37:59	,17-Dec-2013
143,	0.7,	92.3,	46,	0.3492	,10:38:59	,17-Dec-2013
144,	0.5,	92.5,	46,	0.3459	,10:39:59	,17-Dec-2013
145,	0.8,	92.6,	45,	0.3507	,10:40:59	,17-Dec-2013
146,	0.6,	92.8,	45,	0.3477	,10:41:59	,17-Dec-2013
147,	0.9,	93.0,	45,	0.3517	,10:42:59	,17-Dec-2013
148,	0.8,	93.2,	45,	0.3499	,10:43:59	,17-Dec-2013
149,	1.0,	93.3,	44,	0.3533	,10:44:59	,17-Dec-2013
150,	0.6,	93.5,	44,	0.3482	,10:45:59	,17-Dec-2013
151,	0.6,	93.6,	44,	0.3473	,10:46:59	,17-Dec-2013
152,	0.6,	93.7,	44,	0.3479	,10:47:59	,17-Dec-2013
153,	0.6,	93.9,	44,	0.3481	,10:48:59	,17-Dec-2013
154,	0.3,	94.0,	43,	0.3428	,10:49:59	,17-Dec-2013
155,	0.7,	94.2,	43,	0.3486	,10:50:59	,17-Dec-2013
156,	0.7,	94.3,	43,	0.3495	,10:51:59	,17-Dec-2013
157,	0.6,	94.4,	43,	0.3478	,10:52:59	,17-Dec-2013
158,	0.5,	94.5,	42,	0.3459	,10:53:59	,17-Dec-2013
159,	0.7,	94.7,	42,	0.3485	,10:54:59	,17-Dec-2013
160,	0.1,	94.8,	42,	0.3387	,10:55:59	,17-Dec-2013
161,	0.4,	95.0,	41,	0.3430	,10:56:59	,17-Dec-2013
162,	0.2,	95.1,	41,	0.3395	,10:57:59	,17-Dec-2013
163,	0.2,	95.2,	41,	0.3398	,10:58:59	,17-Dec-2013
164,	0.6,	95.3,	41,	0.3452	,10:59:59	,17-Dec-2013
165,	0.3,	95.3,	40,	0.3422	,11:00:59	,17-Dec-2013
166,	0.5,	95.5,	40,	0.3435	,11:01:59	,17-Dec-2013
167,	0.3,	95.6,	40,	0.3422	,11:02:59	,17-Dec-2013

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169,	0.3,	95.9,	40,	0.3413	,11:04:59	,17-Dec-2013
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173,	0.7,	96.3,	39,	0.3471	,11:08:59	,17-Dec-2013
174,	0.3,	96.4,	39,	0.3420	,11:09:59	,17-Dec-2013
175,	0.5,	96.5,	39,	0.3449	,11:10:59	,17-Dec-2013
176,	0.5,	96.6,	39,	0.3445	,11:11:59	,17-Dec-2013
177,	0.6,	96.8,	39,	0.3463	,11:12:59	,17-Dec-2013
178,	0.2,	96.8,	39,	0.3397	,11:13:59	,17-Dec-2013
179,	1.0,	96.9,	39,	0.3513	,11:14:59	,17-Dec-2013
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181,	0.4,	96.9,	38,	0.3432	,11:16:59	,17-Dec-2013
182,	0.6,	96.9,	38,	0.3455	,11:17:59	,17-Dec-2013
183,	0.6,	96.8,	39,	0.3449	,11:18:59	,17-Dec-2013
184,	0.5,	96.9,	38,	0.3445	,11:19:59	,17-Dec-2013
185,	0.6,	96.9,	39,	0.3455	,11:20:59	,17-Dec-2013
186,	0.3,	96.9,	38,	0.3414	,11:21:59	,17-Dec-2013
187,	0.3,	97.0,	38,	0.3419	,11:22:59	,17-Dec-2013
188,	1.0,	97.1,	38,	0.3507	,11:23:59	,17-Dec-2013
189,	1.1,	97.2,	38,	0.3534	,11:24:59	,17-Dec-2013
190,	0.6,	97.3,	38,	0.3541	,11:25:59	,17-Dec-2013
191,	0.6,	97.4,	38,	0.3627	,11:26:59	,17-Dec-2013
192,	0.7,	97.6,	38,	0.3652	,11:27:59	,17-Dec-2013
193,	0.8,	97.7,	38,	0.3714	,11:28:59	,17-Dec-2013
194,	0.6,	97.8,	38,	0.3575	,11:29:59	,17-Dec-2013
195,	0.4,	97.9,	38,	0.3506	,11:30:59	,17-Dec-2013
196,	0.2,	97.9,	38,	0.3441	,11:31:59	,17-Dec-2013
197,	0.5,	98.1,	38,	0.3526	,11:32:59	,17-Dec-2013
198,	0.7,	98.1,	37,	0.3574	,11:33:59	,17-Dec-2013
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200,	0.5,	98.2,	37,	0.3535	,11:35:59	,17-Dec-2013
201,	0.3,	98.2,	37,	0.3455	,11:36:59	,17-Dec-2013
202,	0.2,	98.2,	37,	0.3476	,11:37:59	,17-Dec-2013
203,	0.2,	98.2,	37,	0.3467	,11:38:59	,17-Dec-2013
204,	0.1,	98.2,	37,	0.3434	,11:39:59	,17-Dec-2013
205,	0.6,	98.2,	37,	0.3649	,11:40:59	,17-Dec-2013
206,	0.1,	98.2,	37,	0.3423	,11:41:59	,17-Dec-2013
207,	0.4,	98.3,	37,	0.3546	,11:42:59	,17-Dec-2013
208,	0.6,	98.4,	37,	0.3657	,11:43:59	,17-Dec-2013
209,	0.6,	98.5,	37,	0.3655	,11:44:59	,17-Dec-2013
210,	0.3,	98.5,	37,	0.3529	,11:45:59	,17-Dec-2013
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214,	0.1,	98.8,	37,	0.3409	,11:49:59	,17-Dec-2013
215,	0.3,	98.9,	37,	0.3526	,11:50:59	,17-Dec-2013
216,	0.4,	99.1,	37,	0.3563	,11:51:59	,17-Dec-2013
217,	0.5,	99.3,	36,	0.3603	,11:52:59	,17-Dec-2013
218,	0.3,	99.5,	36,	0.3456	,11:53:59	,17-Dec-2013
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222,	0.2,	100.2,	35,	0.3371	,11:57:59	,17-Dec-2013
223,	0.1,	100.4,	35,	0.3373	,11:58:59	,17-Dec-2013
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225,	0.5,	100.5,	35,	0.3365	,12:00:59	,17-Dec-2013
226,	0.6,	100.5,	35,	0.3363	,12:01:59	,17-Dec-2013
227,	0.1,	100.4,	35,	0.3373	,12:02:59	,17-Dec-2013
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229,	0.3,	100.4,	35,	0.3369	,12:04:59	,17-Dec-2013
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232,	0.3,	100.6,	35,	0.3369	,12:07:59	,17-Dec-2013
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238,	0.2,	100.4,	36,	0.3372	,12:13:59	,17-Dec-2013
239,	0.1,	100.3,	36,	0.3373	,12:14:59	,17-Dec-2013
240,	0.6,	100.2,	36,	0.3325	,12:15:59	,17-Dec-2013
241,	0.2,	100.1,	36,	0.3347	,12:16:59	,17-Dec-2013
242,	0.6,	100.1,	36,	0.3316	,12:17:59	,17-Dec-2013
243,	0.1,	100.0,	36,	0.3361	,12:18:59	,17-Dec-2013
244,	0.5,	100.0,	36,	0.3320	,12:19:59	,17-Dec-2013
245,	0.6,	100.0,	36,	0.3314	,12:20:59	,17-Dec-2013
246,	0.3,	99.9,	37,	0.3348	,12:21:59	,17-Dec-2013
247,	0.7,	99.8,	36,	0.3296	,12:22:59	,17-Dec-2013
248,	0.7,	99.8,	37,	0.3305	,12:23:59	,17-Dec-2013
249,	0.2,	99.7,	36,	0.3350	,12:24:59	,17-Dec-2013
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251,	0.4,	99.6,	36,	0.3334	,12:26:59	,17-Dec-2013
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253,	1.1,	99.2,	35,	0.3263	,12:28:59	,17-Dec-2013
254,	0.7,	98.9,	36,	0.3296	,12:29:59	,17-Dec-2013
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259,	0.4,	98.1,	37,	0.3325	,12:34:59	,17-Dec-2013
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262,	0.8,	98.1,	37,	0.3278	,12:37:59	,17-Dec-2013
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269,	1.3,	98.6,	37,	0.3226	,12:44:59	,17-Dec-2013
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271,	0.5,	98.8,	36,	0.3310	,12:46:59	,17-Dec-2013
272,	1.1,	98.8,	36,	0.3293	,12:47:59	,17-Dec-2013
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274,	1.1,	98.7,	36,	0.3348	,12:49:59	,17-Dec-2013
275,	1.2,	98.6,	36,	0.3346	,12:50:59	,17-Dec-2013
276,	1.1,	98.5,	36,	0.3352	,12:51:59	,17-Dec-2013
277,	1.1,	98.4,	36,	0.3335	,12:52:59	,17-Dec-2013
278,	1.0,	98.4,	36,	0.3334	,12:53:59	,17-Dec-2013
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281,	1.8,	98.3,	37,	0.3401	,12:56:59	,17-Dec-2013
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289,	1.1,	97.9,	37,	0.3973	,13:04:59	,17-Dec-2013
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291,	1.2,	97.8,	37,	0.3948	,13:06:59	,17-Dec-2013
292,	0.9,	97.7,	37,	0.3814	,13:07:59	,17-Dec-2013
293,	1.2,	97.5,	36,	0.3950	,13:08:59	,17-Dec-2013
294,	1.0,	97.3,	36,	0.3835	,13:09:59	,17-Dec-2013
295,	1.2,	97.1,	37,	0.4129	,13:10:59	,17-Dec-2013

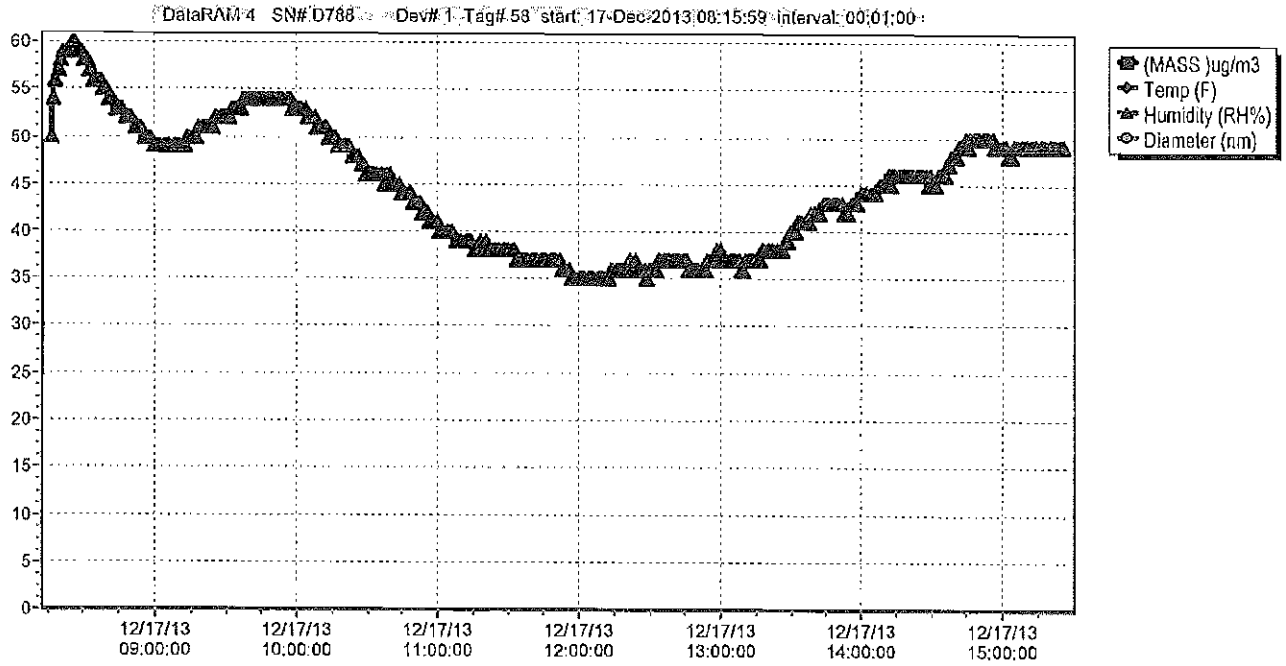
296,	0.6,	97.0,	37,	0.3935	,13:11:59	,17-Dec-2013
297,	1.1,	96.8,	37,	0.4437	,13:12:59	,17-Dec-2013
298,	0.9,	96.7,	37,	0.4086	,13:13:59	,17-Dec-2013
299,	1.3,	96.5,	37,	0.4513	,13:14:59	,17-Dec-2013
300,	1.4,	96.4,	37,	0.4431	,13:15:59	,17-Dec-2013
301,	1.9,	96.2,	37,	0.4705	,13:16:59	,17-Dec-2013
302,	1.1,	96.2,	38,	0.4250	,13:17:59	,17-Dec-2013
303,	1.3,	96.1,	38,	0.4458	,13:18:59	,17-Dec-2013
304,	1.2,	96.0,	38,	0.4360	,13:19:59	,17-Dec-2013
305,	1.3,	95.9,	38,	0.4479	,13:20:59	,17-Dec-2013
306,	1.5,	95.8,	38,	0.4455	,13:21:59	,17-Dec-2013
307,	1.4,	95.7,	38,	0.4049	,13:22:59	,17-Dec-2013
308,	1.1,	95.6,	38,	0.3876	,13:23:59	,17-Dec-2013
309,	1.1,	95.5,	38,	0.3898	,13:24:59	,17-Dec-2013
310,	1.0,	95.5,	38,	0.3833	,13:25:59	,17-Dec-2013
311,	1.1,	95.4,	38,	0.3888	,13:26:59	,17-Dec-2013
312,	1.1,	95.3,	39,	0.3830	,13:27:59	,17-Dec-2013
313,	1.0,	95.3,	39,	0.3764	,13:28:59	,17-Dec-2013
314,	1.8,	95.3,	40,	0.4197	,13:29:59	,17-Dec-2013
315,	1.1,	95.3,	40,	0.3887	,13:30:59	,17-Dec-2013
316,	1.0,	95.2,	40,	0.3835	,13:31:59	,17-Dec-2013
317,	1.4,	95.2,	41,	0.3947	,13:32:59	,17-Dec-2013
318,	1.1,	95.1,	41,	0.3660	,13:33:59	,17-Dec-2013
319,	1.4,	94.9,	41,	0.3769	,13:34:59	,17-Dec-2013
320,	1.3,	94.8,	41,	0.3731	,13:35:59	,17-Dec-2013
321,	1.3,	94.6,	41,	0.3733	,13:36:59	,17-Dec-2013
322,	1.3,	94.6,	41,	0.3728	,13:37:59	,17-Dec-2013
323,	1.2,	94.5,	42,	0.3717	,13:38:59	,17-Dec-2013
324,	1.4,	94.4,	42,	0.3745	,13:39:59	,17-Dec-2013
325,	1.3,	94.3,	42,	0.3740	,13:40:59	,17-Dec-2013
326,	0.9,	94.3,	42,	0.3712	,13:41:59	,17-Dec-2013
327,	1.6,	94.3,	42,	0.4036	,13:42:59	,17-Dec-2013
328,	1.3,	94.3,	43,	0.3864	,13:43:59	,17-Dec-2013
329,	1.6,	94.3,	43,	0.4118	,13:44:59	,17-Dec-2013
330,	1.1,	94.4,	43,	0.3871	,13:45:59	,17-Dec-2013
331,	1.2,	94.4,	43,	0.3892	,13:46:59	,17-Dec-2013
332,	1.3,	94.5,	43,	0.3991	,13:47:59	,17-Dec-2013
333,	1.5,	94.6,	43,	0.4218	,13:48:59	,17-Dec-2013
334,	1.0,	94.7,	43,	0.3762	,13:49:59	,17-Dec-2013
335,	1.2,	94.7,	43,	0.3793	,13:50:59	,17-Dec-2013
336,	1.9,	94.7,	43,	0.4282	,13:51:59	,17-Dec-2013
337,	1.0,	94.6,	42,	0.3963	,13:52:59	,17-Dec-2013
338,	1.3,	94.6,	42,	0.4093	,13:53:59	,17-Dec-2013
339,	1.5,	94.6,	42,	0.4118	,13:54:59	,17-Dec-2013
340,	1.3,	94.5,	43,	0.3913	,13:55:59	,17-Dec-2013
341,	1.1,	94.4,	43,	0.3717	,13:56:59	,17-Dec-2013
342,	1.6,	94.4,	43,	0.3815	,13:57:59	,17-Dec-2013
343,	1.5,	94.3,	43,	0.3636	,13:58:59	,17-Dec-2013
344,	1.7,	94.2,	44,	0.3702	,13:59:59	,17-Dec-2013
345,	1.6,	94.1,	44,	0.3687	,14:00:59	,17-Dec-2013
346,	1.5,	94.1,	44,	0.3764	,14:01:59	,17-Dec-2013
347,	1.2,	94.0,	44,	0.3726	,14:02:59	,17-Dec-2013
348,	1.3,	93.8,	44,	0.3631	,14:03:59	,17-Dec-2013
349,	1.7,	93.6,	44,	0.3707	,14:04:59	,17-Dec-2013
350,	1.7,	93.5,	44,	0.3787	,14:05:59	,17-Dec-2013
351,	1.5,	93.5,	44,	0.3762	,14:06:59	,17-Dec-2013
352,	1.5,	93.4,	45,	0.3778	,14:07:59	,17-Dec-2013
353,	1.8,	93.3,	45,	0.3898	,14:08:59	,17-Dec-2013
354,	2.0,	93.2,	45,	0.4144	,14:09:59	,17-Dec-2013
355,	1.9,	93.0,	45,	0.4321	,14:10:59	,17-Dec-2013
356,	2.1,	92.9,	46,	0.4199	,14:11:59	,17-Dec-2013
357,	1.8,	92.8,	45,	0.4111	,14:12:59	,17-Dec-2013
358,	1.9,	92.7,	46,	0.4151	,14:13:59	,17-Dec-2013
359,	1.9,	92.6,	46,	0.4270	,14:14:59	,17-Dec-2013

360,	1.7,	92.6,	46,	0.4181	,14:15:59	,17-Dec-2013
361,	1.9,	92.6,	46,	0.4251	,14:16:59	,17-Dec-2013
362,	2.0,	92.6,	46,	0.5208	,14:17:59	,17-Dec-2013
363,	2.0,	92.7,	46,	0.4559	,14:18:59	,17-Dec-2013
364,	1.7,	92.7,	46,	0.4276	,14:19:59	,17-Dec-2013
365,	1.6,	92.7,	46,	0.4065	,14:20:59	,17-Dec-2013
366,	1.8,	92.7,	46,	0.4021	,14:21:59	,17-Dec-2013
367,	2.1,	92.8,	46,	0.4125	,14:22:59	,17-Dec-2013
368,	1.8,	92.8,	46,	0.4607	,14:23:59	,17-Dec-2013
369,	1.8,	92.9,	46,	0.5023	,14:24:59	,17-Dec-2013
370,	1.5,	93.0,	46,	0.4832	,14:25:59	,17-Dec-2013
371,	1.5,	93.0,	46,	0.4891	,14:26:59	,17-Dec-2013
372,	1.7,	93.1,	46,	0.4672	,14:27:59	,17-Dec-2013
373,	1.9,	93.1,	45,	0.4868	,14:28:59	,17-Dec-2013
374,	1.8,	93.0,	46,	0.4635	,14:29:59	,17-Dec-2013
375,	1.7,	92.9,	45,	0.4766	,14:30:59	,17-Dec-2013
376,	2.1,	92.8,	45,	0.4845	,14:31:59	,17-Dec-2013
377,	1.6,	92.7,	46,	0.3982	,14:32:59	,17-Dec-2013
378,	2.4,	92.6,	46,	0.5506	,14:33:59	,17-Dec-2013
379,	2.3,	92.4,	46,	0.4952	,14:34:59	,17-Dec-2013
380,	2.2,	92.3,	46,	0.4619	,14:35:59	,17-Dec-2013
381,	1.7,	92.2,	47,	0.4124	,14:36:59	,17-Dec-2013
382,	2.1,	92.0,	47,	0.4002	,14:37:59	,17-Dec-2013
383,	2.1,	91.8,	48,	0.5204	,14:38:59	,17-Dec-2013
384,	2.4,	91.7,	48,	0.4863	,14:39:59	,17-Dec-2013
385,	2.5,	91.6,	48,	0.5316	,14:40:59	,17-Dec-2013
386,	2.2,	91.5,	49,	0.5991	,14:41:59	,17-Dec-2013
387,	2.8,	91.4,	49,	0.7089	,14:42:59	,17-Dec-2013
388,	2.3,	91.2,	49,	0.6102	,14:43:59	,17-Dec-2013
389,	2.9,	91.1,	50,	0.5274	,14:44:59	,17-Dec-2013
390,	2.8,	91.1,	49,	0.6414	,14:45:59	,17-Dec-2013
391,	2.3,	91.0,	50,	0.5108	,14:46:59	,17-Dec-2013
392,	2.2,	91.0,	50,	0.4630	,14:47:59	,17-Dec-2013
393,	2.3,	91.0,	50,	0.4546	,14:48:59	,17-Dec-2013
394,	2.0,	90.9,	50,	0.3957	,14:49:59	,17-Dec-2013
395,	2.3,	90.9,	50,	0.4152	,14:50:59	,17-Dec-2013
396,	2.0,	90.8,	50,	0.4240	,14:51:59	,17-Dec-2013
397,	1.8,	90.8,	50,	0.4648	,14:52:59	,17-Dec-2013
398,	1.7,	90.9,	50,	0.5109	,14:53:59	,17-Dec-2013
399,	1.8,	90.9,	50,	0.4882	,14:54:59	,17-Dec-2013
400,	1.9,	91.0,	50,	0.4596	,14:55:59	,17-Dec-2013
401,	1.5,	91.1,	49,	0.4245	,14:56:59	,17-Dec-2013
402,	1.3,	91.1,	49,	0.4179	,14:57:59	,17-Dec-2013
403,	1.4,	91.2,	49,	0.4231	,14:58:59	,17-Dec-2013
404,	1.6,	91.2,	49,	0.4183	,14:59:59	,17-Dec-2013
405,	1.1,	91.3,	49,	0.3802	,15:00:59	,17-Dec-2013
406,	1.1,	91.4,	49,	0.3811	,15:01:59	,17-Dec-2013
407,	1.2,	91.4,	48,	0.3835	,15:02:59	,17-Dec-2013
408,	1.2,	91.4,	48,	0.3772	,15:03:59	,17-Dec-2013
409,	1.6,	91.3,	49,	0.3853	,15:04:59	,17-Dec-2013
410,	1.6,	91.3,	49,	0.3867	,15:05:59	,17-Dec-2013
411,	1.3,	91.2,	49,	0.3761	,15:06:59	,17-Dec-2013
412,	1.5,	91.2,	49,	0.3806	,15:07:59	,17-Dec-2013
413,	1.7,	91.2,	49,	0.3839	,15:08:59	,17-Dec-2013
414,	2.0,	91.1,	49,	0.3936	,15:09:59	,17-Dec-2013
415,	1.7,	91.1,	49,	0.4162	,15:10:59	,17-Dec-2013
416,	2.3,	91.1,	49,	0.4661	,15:11:59	,17-Dec-2013
417,	1.6,	91.1,	49,	0.4466	,15:12:59	,17-Dec-2013
418,	1.6,	91.0,	49,	0.4495	,15:13:59	,17-Dec-2013
419,	1.9,	91.0,	49,	0.4763	,15:14:59	,17-Dec-2013
420,	2.0,	90.9,	49,	0.4418	,15:15:59	,17-Dec-2013
421,	1.8,	90.9,	49,	0.4747	,15:16:59	,17-Dec-2013
422,	2.1,	90.8,	49,	0.5066	,15:17:59	,17-Dec-2013
423,	1.6,	90.8,	49,	0.4508	,15:18:59	,17-Dec-2013

424,	1.5,	90.7,	49,	0.4592	,15:19:59	,17-Dec-2013
425,	1.9,	90.6,	49,	0.4249	,15:20:59	,17-Dec-2013
426,	1.6,	90.5,	49,	0.4301	,15:21:59	,17-Dec-2013
427,	2.0,	90.3,	49,	0.4564	,15:22:59	,17-Dec-2013
428,	2.0,	90.2,	49,	0.4943	,15:23:59	,17-Dec-2013
429,	1.9,	90.1,	49,	0.4747	,15:24:59	,17-Dec-2013
430,	1.6,	90.1,	49,	0.4336	,15:25:59	,17-Dec-2013

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APPENDIX 5
TOWER #2 AIR PARTICULATE MONITORING

"Model Number", "DataRAM 4 ", 106
"Serial no. ", "D787 "
"Device no. ", HOMECA RECYCLING,PR OLEFINS TORRE 2 SUR
"Tag Number ", 66
"Start Time ", 08:26:10
"Start Date ", 17-Dec-2013
"Log Period ", 00:01:00
"Number ", 424
"CalFactor ", 1.000000
"Unit ", 0
"Unit Name ", "(MASS)ug/m3"
"SIZE_CORRECT", "ENABLED"
"TEMPUNITS ", F
"Max MASS ", 118.587500
"Max MASS @ ", 201 ,11:47:10 ,17-Dec-2013
"Avg MASS ", 2.644039
"Max Diam ", 3.992535
"Max Diam @ ", 390 ,14:56:10 ,17-Dec-2013
"Avg Diam ", 0.495803
"ALARM ", "DISABLED"
"ALARM_LEVEL ", 0.0
"AUTO_ZERO ", "DISABLED"
"AZ INTERVAL ", 1
"Errors ", 0000

record	"(MASS)ug/m3"	Temp	RHumidity	Diameter		
1,	3.8,	76.7,	51,	0.4052	,08:27:10	,17-Dec-2013
2,	2.5,	77.1,	54,	0.4627	,08:28:10	,17-Dec-2013
3,	2.2,	77.4,	57,	0.4282	,08:29:10	,17-Dec-2013
4,	1.9,	77.8,	58,	0.4390	,08:30:10	,17-Dec-2013
5,	2.0,	78.1,	59,	0.4700	,08:31:10	,17-Dec-2013
6,	1.9,	78.5,	60,	0.4307	,08:32:10	,17-Dec-2013
7,	2.0,	78.9,	60,	0.4188	,08:33:10	,17-Dec-2013
8,	1.7,	79.2,	60,	0.3961	,08:34:10	,17-Dec-2013
9,	1.8,	79.6,	60,	0.3809	,08:35:10	,17-Dec-2013
10,	1.9,	79.9,	60,	0.3999	,08:36:10	,17-Dec-2013
11,	1.7,	80.1,	60,	0.4438	,08:37:10	,17-Dec-2013
12,	1.8,	80.4,	60,	0.4063	,08:38:10	,17-Dec-2013
13,	1.9,	80.7,	60,	0.4067	,08:39:10	,17-Dec-2013
14,	2.0,	81.0,	60,	0.4002	,08:40:10	,17-Dec-2013
15,	1.7,	81.3,	60,	0.3928	,08:41:10	,17-Dec-2013
16,	2.2,	81.6,	59,	0.4045	,08:42:10	,17-Dec-2013
17,	1.9,	81.9,	59,	0.4071	,08:43:10	,17-Dec-2013
18,	1.8,	82.2,	59,	0.4176	,08:44:10	,17-Dec-2013
19,	1.7,	82.5,	59,	0.4114	,08:45:10	,17-Dec-2013
20,	1.8,	82.8,	59,	0.4135	,08:46:10	,17-Dec-2013
21,	1.7,	83.2,	59,	0.4444	,08:47:10	,17-Dec-2013
22,	1.5,	83.5,	58,	0.4646	,08:48:10	,17-Dec-2013
23,	1.4,	83.7,	58,	0.4431	,08:49:10	,17-Dec-2013
24,	1.2,	84.0,	58,	0.4221	,08:50:10	,17-Dec-2013
25,	1.8,	84.3,	58,	0.4366	,08:51:10	,17-Dec-2013
26,	1.3,	84.6,	58,	0.3808	,08:52:10	,17-Dec-2013
27,	1.5,	85.0,	57,	0.3698	,08:53:10	,17-Dec-2013
28,	1.7,	85.3,	57,	0.3713	,08:54:10	,17-Dec-2013
29,	2.0,	85.5,	57,	0.3994	,08:55:10	,17-Dec-2013
30,	2.1,	85.8,	56,	0.4162	,08:56:10	,17-Dec-2013
31,	1.9,	86.0,	55,	0.3944	,08:57:10	,17-Dec-2013
32,	1.7,	86.1,	54,	0.3953	,08:58:10	,17-Dec-2013
33,	1.8,	86.1,	54,	0.3999	,08:59:10	,17-Dec-2013
34,	1.9,	86.3,	54,	0.4081	,09:00:10	,17-Dec-2013
35,	1.8,	86.3,	53,	0.4194	,09:01:10	,17-Dec-2013
36,	1.5,	86.3,	53,	0.4003	,09:02:10	,17-Dec-2013
37,	1.8,	86.3,	52,	0.4324	,09:03:10	,17-Dec-2013
38,	1.8,	86.3,	52,	0.4369	,09:04:10	,17-Dec-2013
39,	1.7,	86.4,	52,	0.4574	,09:05:10	,17-Dec-2013

40,	1.5,	86.5,	52,	0.4420	,09:06:10	,17-Dec-2013
41,	1.6,	86.5,	52,	0.4374	,09:07:10	,17-Dec-2013
42,	1.9,	86.5,	52,	0.3940	,09:08:10	,17-Dec-2013
43,	1.4,	86.6,	52,	0.3718	,09:09:10	,17-Dec-2013
44,	2.1,	86.6,	52,	0.4007	,09:10:10	,17-Dec-2013
45,	1.6,	86.7,	51,	0.4009	,09:11:10	,17-Dec-2013
46,	1.8,	86.7,	51,	0.4021	,09:12:10	,17-Dec-2013
47,	1.9,	86.8,	51,	0.3961	,09:13:10	,17-Dec-2013
48,	7.8,	86.8,	51,	1.1721	,09:14:10	,17-Dec-2013
49,	1.7,	86.9,	51,	0.5309	,09:15:10	,17-Dec-2013
50,	2.1,	86.9,	51,	0.4413	,09:16:10	,17-Dec-2013
51,	1.9,	86.8,	51,	0.3765	,09:17:10	,17-Dec-2013
52,	2.0,	86.8,	52,	0.3732	,09:18:10	,17-Dec-2013
53,	1.3,	86.8,	52,	0.3645	,09:19:10	,17-Dec-2013
54,	2.0,	86.8,	52,	0.3810	,09:20:10	,17-Dec-2013
55,	1.5,	86.8,	52,	0.3700	,09:21:10	,17-Dec-2013
56,	1.5,	86.8,	52,	0.3690	,09:22:10	,17-Dec-2013
57,	1.4,	86.8,	52,	0.3679	,09:23:10	,17-Dec-2013
58,	1.5,	86.7,	52,	0.3657	,09:24:10	,17-Dec-2013
59,	1.7,	86.7,	52,	0.3465	,09:25:10	,17-Dec-2013
60,	1.3,	86.6,	52,	0.3440	,09:26:10	,17-Dec-2013
61,	1.3,	86.5,	52,	0.3436	,09:27:10	,17-Dec-2013
62,	1.0,	86.5,	52,	0.3425	,09:28:10	,17-Dec-2013
63,	1.3,	86.4,	52,	0.3441	,09:29:10	,17-Dec-2013
64,	1.2,	86.3,	52,	0.3434	,09:30:10	,17-Dec-2013
65,	1.2,	86.3,	52,	0.3435	,09:31:10	,17-Dec-2013
66,	1.1,	86.2,	52,	0.3428	,09:32:10	,17-Dec-2013
67,	1.4,	86.1,	52,	0.3443	,09:33:10	,17-Dec-2013
68,	1.2,	86.1,	53,	0.3434	,09:34:10	,17-Dec-2013
69,	1.4,	86.0,	53,	0.3442	,09:35:10	,17-Dec-2013
70,	1.1,	85.9,	53,	0.3432	,09:36:10	,17-Dec-2013
71,	1.2,	85.9,	53,	0.3435	,09:37:10	,17-Dec-2013
72,	0.8,	85.7,	53,	0.3415	,09:38:10	,17-Dec-2013
73,	1.2,	85.7,	53,	0.3436	,09:39:10	,17-Dec-2013
74,	1.2,	85.7,	53,	0.3434	,09:40:10	,17-Dec-2013
75,	1.0,	85.6,	53,	0.3426	,09:41:10	,17-Dec-2013
76,	0.9,	85.6,	53,	0.3421	,09:42:10	,17-Dec-2013
77,	1.2,	85.6,	54,	0.3436	,09:43:10	,17-Dec-2013
78,	1.3,	85.6,	54,	0.3441	,09:44:10	,17-Dec-2013
79,	1.5,	85.6,	54,	0.3447	,09:45:10	,17-Dec-2013
80,	1.3,	85.6,	54,	0.3440	,09:46:10	,17-Dec-2013
81,	1.3,	85.6,	54,	0.3441	,09:47:10	,17-Dec-2013
82,	1.7,	85.7,	54,	0.3455	,09:48:10	,17-Dec-2013
83,	2.0,	85.8,	54,	0.3745	,09:49:10	,17-Dec-2013
84,	1.6,	85.9,	54,	0.3590	,09:50:10	,17-Dec-2013
85,	1.7,	85.9,	54,	0.3566	,09:51:10	,17-Dec-2013
86,	1.3,	86.0,	54,	0.3474	,09:52:10	,17-Dec-2013
87,	1.8,	86.1,	54,	0.3581	,09:53:10	,17-Dec-2013
88,	1.6,	86.1,	54,	0.3611	,09:54:10	,17-Dec-2013
89,	1.8,	86.2,	54,	0.3492	,09:55:10	,17-Dec-2013
90,	1.8,	86.4,	54,	0.3477	,09:56:10	,17-Dec-2013
91,	1.7,	86.5,	54,	0.3424	,09:57:10	,17-Dec-2013
92,	1.7,	86.8,	54,	0.3538	,09:58:10	,17-Dec-2013
93,	1.5,	87.0,	54,	0.3518	,09:59:10	,17-Dec-2013
94,	1.4,	87.2,	53,	0.3504	,10:00:10	,17-Dec-2013
95,	1.8,	87.4,	53,	0.3560	,10:01:10	,17-Dec-2013
96,	1.6,	87.6,	52,	0.3546	,10:02:10	,17-Dec-2013
97,	1.3,	87.8,	52,	0.3508	,10:03:10	,17-Dec-2013
98,	1.7,	87.9,	52,	0.3530	,10:04:10	,17-Dec-2013
99,	1.5,	88.0,	51,	0.3514	,10:05:10	,17-Dec-2013
100,	1.5,	88.1,	51,	0.3518	,10:06:10	,17-Dec-2013
101,	1.5,	88.2,	51,	0.3512	,10:07:10	,17-Dec-2013
102,	1.1,	88.3,	51,	0.3345	,10:08:10	,17-Dec-2013
103,	1.5,	88.4,	51,	0.3284	,10:09:10	,17-Dec-2013

104,	1.5,	88.6,	51,	0.3294	,10:10:10	,17-Dec-2013
105,	1.4,	88.8,	51,	0.3299	,10:11:10	,17-Dec-2013
106,	1.3,	89.0,	51,	0.3307	,10:12:10	,17-Dec-2013
107,	0.7,	89.2,	51,	0.3336	,10:13:10	,17-Dec-2013
108,	1.0,	89.4,	50,	0.3322	,10:14:10	,17-Dec-2013
109,	1.1,	89.6,	50,	0.3315	,10:15:10	,17-Dec-2013
110,	1.1,	89.7,	50,	0.3317	,10:16:10	,17-Dec-2013
111,	0.8,	89.9,	49,	0.3332	,10:17:10	,17-Dec-2013
112,	1.0,	89.9,	49,	0.3319	,10:18:10	,17-Dec-2013
113,	1.1,	90.0,	49,	0.3317	,10:19:10	,17-Dec-2013
114,	0.9,	90.1,	48,	0.3328	,10:20:10	,17-Dec-2013
115,	0.4,	90.3,	48,	0.3354	,10:21:10	,17-Dec-2013
116,	1.0,	90.4,	48,	0.3324	,10:22:10	,17-Dec-2013
117,	0.7,	90.5,	48,	0.3336	,10:23:10	,17-Dec-2013
118,	1.0,	90.6,	48,	0.3322	,10:24:10	,17-Dec-2013
119,	0.8,	90.7,	47,	0.3330	,10:25:10	,17-Dec-2013
120,	0.4,	90.8,	47,	0.3355	,10:26:10	,17-Dec-2013
121,	1.0,	90.8,	47,	0.3324	,10:27:10	,17-Dec-2013
122,	0.5,	90.9,	47,	0.3349	,10:28:10	,17-Dec-2013
123,	0.6,	91.0,	46,	0.3342	,10:29:10	,17-Dec-2013
124,	0.8,	91.2,	46,	0.3331	,10:30:10	,17-Dec-2013
125,	1.0,	91.3,	46,	0.3324	,10:31:10	,17-Dec-2013
126,	1.0,	91.4,	46,	0.3322	,10:32:10	,17-Dec-2013
127,	0.7,	91.5,	46,	0.3337	,10:33:10	,17-Dec-2013
128,	0.6,	91.6,	46,	0.3341	,10:34:10	,17-Dec-2013
129,	0.9,	91.7,	45,	0.3325	,10:35:10	,17-Dec-2013
130,	0.9,	91.8,	45,	0.3329	,10:36:10	,17-Dec-2013
131,	0.8,	91.9,	45,	0.3329	,10:37:10	,17-Dec-2013
132,	0.9,	92.1,	45,	0.3324	,10:38:10	,17-Dec-2013
133,	0.8,	92.2,	45,	0.3331	,10:39:10	,17-Dec-2013
134,	0.7,	92.4,	45,	0.3338	,10:40:10	,17-Dec-2013
135,	0.8,	92.5,	44,	0.3335	,10:41:10	,17-Dec-2013
136,	0.8,	92.6,	44,	0.3331	,10:42:10	,17-Dec-2013
137,	1.2,	92.7,	44,	0.3313	,10:43:10	,17-Dec-2013
138,	0.9,	93.0,	44,	0.3324	,10:44:10	,17-Dec-2013
139,	1.0,	93.2,	44,	0.3322	,10:45:10	,17-Dec-2013
140,	0.9,	93.3,	44,	0.3327	,10:46:10	,17-Dec-2013
141,	0.6,	93.5,	43,	0.3342	,10:47:10	,17-Dec-2013
142,	0.2,	93.7,	43,	0.3367	,10:48:10	,17-Dec-2013
143,	0.8,	93.9,	43,	0.3334	,10:49:10	,17-Dec-2013
144,	0.7,	94.1,	43,	0.3339	,10:50:10	,17-Dec-2013
145,	0.4,	94.2,	42,	0.3352	,10:51:10	,17-Dec-2013
146,	0.5,	94.3,	42,	0.3350	,10:52:10	,17-Dec-2013
147,	0.8,	94.5,	41,	0.3335	,10:53:10	,17-Dec-2013
148,	0.4,	94.6,	41,	0.3351	,10:54:10	,17-Dec-2013
149,	0.8,	94.7,	41,	0.3335	,10:55:10	,17-Dec-2013
150,	0.2,	94.8,	40,	0.3364	,10:56:10	,17-Dec-2013
151,	0.5,	94.9,	40,	0.3345	,10:57:10	,17-Dec-2013
152,	0.7,	94.9,	40,	0.3339	,10:58:10	,17-Dec-2013
153,	0.4,	95.0,	40,	0.3353	,10:59:10	,17-Dec-2013
154,	0.6,	95.1,	39,	0.3343	,11:00:10	,17-Dec-2013
155,	0.4,	95.1,	39,	0.3355	,11:01:10	,17-Dec-2013
156,	0.6,	95.2,	39,	0.3340	,11:02:10	,17-Dec-2013
157,	0.2,	95.3,	39,	0.3362	,11:03:10	,17-Dec-2013
158,	0.5,	95.3,	39,	0.3346	,11:04:10	,17-Dec-2013
159,	0.3,	95.3,	39,	0.3358	,11:05:10	,17-Dec-2013
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162,	0.2,	95.5,	38,	0.3362	,11:08:10	,17-Dec-2013
163,	0.3,	95.5,	39,	0.3361	,11:09:10	,17-Dec-2013
164,	0.7,	95.5,	38,	0.3337	,11:10:10	,17-Dec-2013
165,	0.5,	95.5,	38,	0.3348	,11:11:10	,17-Dec-2013
166,	0.7,	95.7,	38,	0.3337	,11:12:10	,17-Dec-2013
167,	0.7,	95.8,	38,	0.3337	,11:13:10	,17-Dec-2013

168,	1.0,	95.9,	38,	0.3320	,11:14:10	,17-Dec-2013
169,	1.1,	96.0,	38,	0.3316	,11:15:10	,17-Dec-2013
170,	1.0,	96.1,	38,	0.3323	,11:16:10	,17-Dec-2013
171,	0.9,	96.2,	38,	0.3325	,11:17:10	,17-Dec-2013
172,	0.3,	96.2,	38,	0.3357	,11:18:10	,17-Dec-2013
173,	0.9,	96.3,	38,	0.3328	,11:19:10	,17-Dec-2013
174,	0.7,	96.4,	38,	0.3340	,11:20:10	,17-Dec-2013
175,	0.9,	96.4,	37,	0.3329	,11:21:10	,17-Dec-2013
176,	1.1,	96.5,	37,	0.3333	,11:22:10	,17-Dec-2013
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178,	1.0,	96.7,	37,	0.3344	,11:24:10	,17-Dec-2013
179,	1.1,	96.8,	37,	0.3344	,11:25:10	,17-Dec-2013
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181,	0.6,	97.0,	37,	0.3357	,11:27:10	,17-Dec-2013
182,	0.6,	97.1,	37,	0.3357	,11:28:10	,17-Dec-2013
183,	1.5,	97.1,	37,	0.3301	,11:29:10	,17-Dec-2013
184,	2.0,	97.1,	37,	0.3813	,11:30:10	,17-Dec-2013
185,	1.1,	97.3,	37,	0.4235	,11:31:10	,17-Dec-2013
186,	0.8,	97.3,	37,	0.4004	,11:32:10	,17-Dec-2013
187,	0.7,	97.4,	37,	0.3668	,11:33:10	,17-Dec-2013
188,	0.8,	97.6,	37,	0.3679	,11:34:10	,17-Dec-2013
189,	0.3,	97.7,	37,	0.3472	,11:35:10	,17-Dec-2013
190,	0.3,	97.6,	37,	0.3484	,11:36:10	,17-Dec-2013
191,	0.6,	97.6,	36,	0.3615	,11:37:10	,17-Dec-2013
192,	0.3,	97.5,	36,	0.3496	,11:38:10	,17-Dec-2013
193,	0.3,	97.5,	36,	0.3496	,11:39:10	,17-Dec-2013
194,	0.3,	97.5,	37,	0.3479	,11:40:10	,17-Dec-2013
195,	0.4,	97.6,	36,	0.3535	,11:41:10	,17-Dec-2013
196,	0.4,	97.6,	36,	0.3538	,11:42:10	,17-Dec-2013
197,	0.4,	97.7,	36,	0.3508	,11:43:10	,17-Dec-2013
198,	0.6,	97.8,	36,	0.3617	,11:44:10	,17-Dec-2013
199,	21.9,	97.9,	36,	1.4024	,11:45:10	,17-Dec-2013
200,	11.2,	98.0,	36,	2.2308	,11:46:10	,17-Dec-2013
201,	118.6,	98.2,	36,	2.7855	,11:47:10	,17-Dec-2013
202,	9.4,	98.3,	36,	1.4054	,11:48:10	,17-Dec-2013
203,	10.5,	98.5,	36,	1.6430	,11:49:10	,17-Dec-2013
204,	0.9,	98.6,	36,	0.4717	,11:50:10	,17-Dec-2013
205,	2.0,	98.7,	36,	0.6386	,11:51:10	,17-Dec-2013
206,	1.0,	98.9,	36,	0.4229	,11:52:10	,17-Dec-2013
207,	1.3,	99.0,	36,	0.4198	,11:53:10	,17-Dec-2013
208,	2.1,	99.1,	35,	0.6168	,11:54:10	,17-Dec-2013
209,	14.0,	99.2,	35,	2.0905	,11:55:10	,17-Dec-2013
210,	1.9,	99.4,	35,	0.7067	,11:56:10	,17-Dec-2013
211,	2.4,	99.5,	35,	0.9373	,11:57:10	,17-Dec-2013
212,	0.9,	99.6,	35,	0.4938	,11:58:10	,17-Dec-2013
213,	1.2,	99.6,	35,	0.5203	,11:59:10	,17-Dec-2013
214,	0.5,	99.7,	35,	0.3689	,12:00:10	,17-Dec-2013
215,	0.8,	99.8,	35,	0.3853	,12:01:10	,17-Dec-2013
216,	1.9,	100.0,	35,	0.4133	,12:02:10	,17-Dec-2013
217,	9.1,	100.1,	35,	1.3203	,12:03:10	,17-Dec-2013
218,	1.1,	100.2,	35,	0.5801	,12:04:10	,17-Dec-2013
219,	1.0,	100.3,	35,	0.5321	,12:05:10	,17-Dec-2013
220,	0.5,	100.4,	35,	0.4064	,12:06:10	,17-Dec-2013
221,	0.8,	100.5,	35,	0.4493	,12:07:10	,17-Dec-2013
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223,	0.3,	100.7,	35,	0.3586	,12:09:10	,17-Dec-2013
224,	0.8,	100.7,	35,	0.3965	,12:10:10	,17-Dec-2013
225,	1.0,	100.6,	35,	0.4024	,12:11:10	,17-Dec-2013
226,	0.9,	100.5,	36,	0.3927	,12:12:10	,17-Dec-2013
227,	1.3,	100.5,	35,	0.4044	,12:13:10	,17-Dec-2013
228,	1.3,	100.3,	35,	0.3943	,12:14:10	,17-Dec-2013
229,	0.6,	100.2,	36,	0.3627	,12:15:10	,17-Dec-2013
230,	0.5,	100.1,	35,	0.3600	,12:16:10	,17-Dec-2013
231,	0.5,	100.0,	36,	0.3577	,12:17:10	,17-Dec-2013

232,	0.8,	100.0,	36,	0.3699	,12:18:10	,17-Dec-2013
233,	0.6,	100.0,	36,	0.3615	,12:19:10	,17-Dec-2013
234,	0.5,	100.0,	36,	0.3549	,12:20:10	,17-Dec-2013
235,	0.4,	100.0,	35,	0.3517	,12:21:10	,17-Dec-2013
236,	46.5,	99.8,	35,	2.4378	,12:22:10	,17-Dec-2013
237,	36.7,	99.7,	35,	3.4152	,12:23:10	,17-Dec-2013
238,	2.2,	99.6,	36,	0.6949	,12:24:10	,17-Dec-2013
239,	5.6,	99.5,	36,	1.1296	,12:25:10	,17-Dec-2013
240,	1.2,	99.3,	36,	0.4772	,12:26:10	,17-Dec-2013
241,	0.9,	99.1,	36,	0.4306	,12:27:10	,17-Dec-2013
242,	1.1,	99.0,	36,	0.4202	,12:28:10	,17-Dec-2013
243,	0.6,	98.8,	36,	0.3822	,12:29:10	,17-Dec-2013
244,	0.5,	98.6,	36,	0.3751	,12:30:10	,17-Dec-2013
245,	1.0,	98.5,	36,	0.4097	,12:31:10	,17-Dec-2013
246,	1.2,	98.3,	36,	0.4314	,12:32:10	,17-Dec-2013
247,	1.4,	98.1,	36,	0.3800	,12:33:10	,17-Dec-2013
248,	1.4,	98.0,	37,	0.3692	,12:34:10	,17-Dec-2013
249,	1.2,	98.0,	37,	0.3722	,12:35:10	,17-Dec-2013
250,	1.3,	98.0,	37,	0.3700	,12:36:10	,17-Dec-2013
251,	1.1,	98.0,	37,	0.3572	,12:37:10	,17-Dec-2013
252,	2.0,	98.1,	37,	0.4434	,12:38:10	,17-Dec-2013
253,	39.9,	98.1,	37,	3.7654	,12:39:10	,17-Dec-2013
254,	8.8,	98.2,	37,	1.4651	,12:40:10	,17-Dec-2013
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256,	1.5,	98.6,	37,	0.4577	,12:42:10	,17-Dec-2013
257,	1.4,	98.7,	37,	0.4118	,12:43:10	,17-Dec-2013
258,	6.2,	98.9,	37,	0.8667	,12:44:10	,17-Dec-2013
259,	6.8,	99.1,	37,	1.4224	,12:45:10	,17-Dec-2013
260,	11.0,	99.3,	36,	1.5763	,12:46:10	,17-Dec-2013
261,	1.8,	99.5,	36,	0.5572	,12:47:10	,17-Dec-2013
262,	1.1,	99.5,	36,	0.4231	,12:48:10	,17-Dec-2013
263,	1.5,	99.5,	36,	0.4620	,12:49:10	,17-Dec-2013
264,	1.2,	99.5,	36,	0.4087	,12:50:10	,17-Dec-2013
265,	1.3,	99.4,	36,	0.3862	,12:51:10	,17-Dec-2013
266,	1.6,	99.5,	36,	0.3649	,12:52:10	,17-Dec-2013
267,	1.5,	99.5,	36,	0.3477	,12:53:10	,17-Dec-2013
268,	1.6,	99.6,	36,	0.3465	,12:54:10	,17-Dec-2013
269,	2.0,	99.7,	36,	0.4728	,12:55:10	,17-Dec-2013
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271,	2.0,	99.8,	36,	0.4067	,12:57:10	,17-Dec-2013
272,	2.1,	99.9,	36,	0.4047	,12:58:10	,17-Dec-2013
273,	33.2,	100.0,	36,	2.3142	,12:59:10	,17-Dec-2013
274,	8.4,	100.0,	36,	2.0466	,13:00:10	,17-Dec-2013
275,	1.7,	100.1,	36,	0.6564	,13:01:10	,17-Dec-2013
276,	0.8,	100.2,	36,	0.4305	,13:02:10	,17-Dec-2013
277,	1.0,	100.3,	36,	0.4343	,13:03:10	,17-Dec-2013
278,	1.0,	100.3,	35,	0.4086	,13:04:10	,17-Dec-2013
279,	1.1,	100.3,	35,	0.3821	,13:05:10	,17-Dec-2013
280,	1.1,	100.3,	35,	0.3763	,13:06:10	,17-Dec-2013
281,	0.9,	100.4,	35,	0.3634	,13:07:10	,17-Dec-2013
282,	0.8,	100.3,	35,	0.3612	,13:08:10	,17-Dec-2013
283,	1.5,	100.3,	34,	0.4133	,13:09:10	,17-Dec-2013
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285,	0.7,	100.0,	34,	0.3722	,13:11:10	,17-Dec-2013
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287,	0.8,	99.8,	34,	0.3658	,13:13:10	,17-Dec-2013
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291,	1.0,	99.3,	34,	0.3615	,13:17:10	,17-Dec-2013
292,	1.0,	99.1,	34,	0.3608	,13:18:10	,17-Dec-2013
293,	0.9,	99.0,	34,	0.3585	,13:19:10	,17-Dec-2013
294,	0.9,	98.9,	34,	0.3594	,13:20:10	,17-Dec-2013
295,	1.4,	98.7,	34,	0.3781	,13:21:10	,17-Dec-2013

296,	0.6,	98.6,	34,	0.3504	,13:22:10	,17-Dec-2013
297,	1.4,	98.5,	34,	0.3460	,13:23:10	,17-Dec-2013
298,	1.3,	98.2,	35,	0.3411	,13:24:10	,17-Dec-2013
299,	1.4,	98.2,	35,	0.3430	,13:25:10	,17-Dec-2013
300,	1.2,	98.1,	35,	0.3423	,13:26:10	,17-Dec-2013
301,	0.7,	98.1,	35,	0.3402	,13:27:10	,17-Dec-2013
302,	1.4,	98.2,	36,	0.3579	,13:28:10	,17-Dec-2013
303,	1.5,	98.2,	36,	0.3690	,13:29:10	,17-Dec-2013
304,	1.3,	98.1,	36,	0.3594	,13:30:10	,17-Dec-2013
305,	1.5,	98.1,	36,	0.3664	,13:31:10	,17-Dec-2013
306,	1.8,	98.0,	37,	0.3503	,13:32:10	,17-Dec-2013
307,	1.5,	97.8,	37,	0.3358	,13:33:10	,17-Dec-2013
308,	2.4,	97.8,	37,	0.3561	,13:34:10	,17-Dec-2013
309,	1.3,	97.7,	37,	0.3550	,13:35:10	,17-Dec-2013
310,	1.3,	97.6,	37,	0.3452	,13:36:10	,17-Dec-2013
311,	1.4,	97.6,	37,	0.3387	,13:37:10	,17-Dec-2013
312,	50.7,	97.6,	37,	2.1465	,13:38:10	,17-Dec-2013
313,	3.9,	97.6,	37,	1.0408	,13:39:10	,17-Dec-2013
314,	1.3,	97.7,	37,	0.4391	,13:40:10	,17-Dec-2013
315,	1.8,	97.7,	38,	0.4601	,13:41:10	,17-Dec-2013
316,	1.4,	97.8,	38,	0.4614	,13:42:10	,17-Dec-2013
317,	1.1,	97.8,	38,	0.4757	,13:43:10	,17-Dec-2013
318,	1.3,	97.9,	38,	0.4929	,13:44:10	,17-Dec-2013
319,	1.6,	98.0,	38,	0.4815	,13:45:10	,17-Dec-2013
320,	1.0,	97.9,	38,	0.4098	,13:46:10	,17-Dec-2013
321,	1.2,	97.9,	38,	0.3995	,13:47:10	,17-Dec-2013
322,	0.7,	97.9,	38,	0.3652	,13:48:10	,17-Dec-2013
323,	0.7,	97.8,	38,	0.3692	,13:49:10	,17-Dec-2013
324,	1.2,	97.7,	38,	0.3881	,13:50:10	,17-Dec-2013
325,	1.5,	97.5,	38,	0.3731	,13:51:10	,17-Dec-2013
326,	1.1,	97.4,	38,	0.3467	,13:52:10	,17-Dec-2013
327,	1.2,	97.2,	38,	0.3352	,13:53:10	,17-Dec-2013
328,	1.5,	97.2,	38,	0.3213	,13:54:10	,17-Dec-2013
329,	1.9,	97.2,	38,	0.3199	,13:55:10	,17-Dec-2013
330,	2.4,	97.3,	38,	0.3665	,13:56:10	,17-Dec-2013
331,	1.4,	97.3,	39,	0.3753	,13:57:10	,17-Dec-2013
332,	1.4,	97.2,	39,	0.3753	,13:58:10	,17-Dec-2013
333,	2.0,	97.1,	39,	0.4207	,13:59:10	,17-Dec-2013
334,	1.6,	96.9,	39,	0.3784	,14:00:10	,17-Dec-2013
335,	1.5,	96.8,	40,	0.4311	,14:01:10	,17-Dec-2013
336,	1.8,	96.6,	40,	0.4165	,14:02:10	,17-Dec-2013
337,	1.5,	96.4,	40,	0.3915	,14:03:10	,17-Dec-2013
338,	2.0,	96.3,	40,	0.3728	,14:04:10	,17-Dec-2013
339,	1.4,	96.3,	40,	0.3598	,14:05:10	,17-Dec-2013
340,	1.8,	96.2,	41,	0.3831	,14:06:10	,17-Dec-2013
341,	1.4,	96.2,	41,	0.3972	,14:07:10	,17-Dec-2013
342,	7.4,	96.2,	41,	1.0240	,14:08:10	,17-Dec-2013
343,	4.5,	96.1,	41,	0.9061	,14:09:10	,17-Dec-2013
344,	2.0,	96.0,	41,	0.5601	,14:10:10	,17-Dec-2013
345,	2.0,	95.9,	41,	0.4712	,14:11:10	,17-Dec-2013
346,	1.8,	95.8,	41,	0.4130	,14:12:10	,17-Dec-2013
347,	2.0,	95.8,	41,	0.3552	,14:13:10	,17-Dec-2013
348,	1.9,	95.8,	41,	0.4303	,14:14:10	,17-Dec-2013
349,	1.6,	95.8,	41,	0.4221	,14:15:10	,17-Dec-2013
350,	2.0,	95.8,	41,	0.5147	,14:16:10	,17-Dec-2013
351,	8.8,	96.0,	41,	1.6032	,14:17:10	,17-Dec-2013
352,	5.3,	96.0,	41,	1.0216	,14:18:10	,17-Dec-2013
353,	2.8,	96.1,	41,	1.0060	,14:19:10	,17-Dec-2013
354,	1.4,	96.2,	41,	0.5526	,14:20:10	,17-Dec-2013
355,	1.3,	96.3,	41,	0.4379	,14:21:10	,17-Dec-2013
356,	1.6,	96.3,	41,	0.4245	,14:22:10	,17-Dec-2013
357,	1.8,	96.4,	41,	0.4079	,14:23:10	,17-Dec-2013
358,	1.7,	96.6,	40,	0.3950	,14:24:10	,17-Dec-2013
359,	1.5,	96.7,	41,	0.3916	,14:25:10	,17-Dec-2013

360,	1.4,	96.9,	40,	0.3716	,14:26:10	,17-Dec-2013
361,	1.4,	97.0,	40,	0.3472	,14:27:10	,17-Dec-2013
362,	2.1,	97.0,	40,	0.3556	,14:28:10	,17-Dec-2013
363,	1.6,	97.0,	40,	0.3524	,14:29:10	,17-Dec-2013
364,	1.6,	96.9,	40,	0.3539	,14:30:10	,17-Dec-2013
365,	1.3,	96.7,	40,	0.3706	,14:31:10	,17-Dec-2013
366,	1.8,	96.7,	40,	0.3647	,14:32:10	,17-Dec-2013
367,	1.8,	96.4,	40,	0.3772	,14:33:10	,17-Dec-2013
368,	1.6,	96.3,	40,	0.3602	,14:34:10	,17-Dec-2013
369,	1.9,	96.2,	40,	0.3560	,14:35:10	,17-Dec-2013
370,	1.3,	96.0,	40,	0.3430	,14:36:10	,17-Dec-2013
371,	1.8,	95.9,	41,	0.3647	,14:37:10	,17-Dec-2013
372,	1.5,	95.7,	41,	0.3687	,14:38:10	,17-Dec-2013
373,	2.2,	95.5,	41,	0.3650	,14:39:10	,17-Dec-2013
374,	2.3,	95.3,	42,	0.3902	,14:40:10	,17-Dec-2013
375,	2.3,	95.1,	42,	0.5026	,14:41:10	,17-Dec-2013
376,	16.5,	95.0,	43,	1.9551	,14:42:10	,17-Dec-2013
377,	2.3,	94.8,	43,	0.6036	,14:43:10	,17-Dec-2013
378,	2.1,	94.7,	43,	0.5316	,14:44:10	,17-Dec-2013
379,	2.2,	94.7,	43,	0.5662	,14:45:10	,17-Dec-2013
380,	2.7,	94.7,	43,	0.7001	,14:46:10	,17-Dec-2013
381,	2.9,	94.7,	43,	0.7984	,14:47:10	,17-Dec-2013
382,	2.1,	94.8,	43,	0.5257	,14:48:10	,17-Dec-2013
383,	2.1,	94.7,	43,	0.4117	,14:49:10	,17-Dec-2013
384,	2.0,	94.7,	43,	0.4109	,14:50:10	,17-Dec-2013
385,	1.9,	94.6,	43,	0.4992	,14:51:10	,17-Dec-2013
386,	2.1,	94.6,	43,	0.4868	,14:52:10	,17-Dec-2013
387,	1.9,	94.7,	43,	0.4668	,14:53:10	,17-Dec-2013
388,	3.1,	94.7,	43,	0.7162	,14:54:10	,17-Dec-2013
389,	1.9,	94.8,	43,	0.4937	,14:55:10	,17-Dec-2013
390,	48.8,	94.9,	43,	3.9925	,14:56:10	,17-Dec-2013
391,	7.0,	94.9,	42,	1.3981	,14:57:10	,17-Dec-2013
392,	0.9,	95.0,	42,	0.4322	,14:58:10	,17-Dec-2013
393,	0.8,	95.0,	42,	0.3935	,14:59:10	,17-Dec-2013
394,	0.8,	95.0,	42,	0.3628	,15:00:10	,17-Dec-2013
395,	1.2,	95.0,	42,	0.3673	,15:01:10	,17-Dec-2013
396,	0.8,	95.0,	42,	0.3483	,15:02:10	,17-Dec-2013
397,	3.2,	94.9,	42,	0.5353	,15:03:10	,17-Dec-2013
398,	1.4,	94.7,	42,	0.4435	,15:04:10	,17-Dec-2013
399,	1.1,	94.6,	42,	0.3734	,15:05:10	,17-Dec-2013
400,	1.2,	94.5,	43,	0.3446	,15:06:10	,17-Dec-2013
401,	1.2,	94.4,	43,	0.3440	,15:07:10	,17-Dec-2013
402,	1.3,	94.3,	43,	0.3464	,15:08:10	,17-Dec-2013
403,	1.4,	94.2,	43,	0.3485	,15:09:10	,17-Dec-2013
404,	2.1,	94.1,	43,	0.3333	,15:10:10	,17-Dec-2013
405,	1.8,	94.1,	44,	0.4052	,15:11:10	,17-Dec-2013
406,	1.7,	94.1,	44,	0.4224	,15:12:10	,17-Dec-2013
407,	17.3,	94.1,	44,	2.8595	,15:13:10	,17-Dec-2013
408,	2.3,	94.1,	44,	0.7082	,15:14:10	,17-Dec-2013
409,	1.7,	94.1,	44,	0.5304	,15:15:10	,17-Dec-2013
410,	1.4,	94.0,	43,	0.4318	,15:16:10	,17-Dec-2013
411,	1.2,	94.0,	44,	0.3778	,15:17:10	,17-Dec-2013
412,	1.4,	93.9,	43,	0.3753	,15:18:10	,17-Dec-2013
413,	1.7,	93.7,	43,	0.3980	,15:19:10	,17-Dec-2013
414,	1.4,	93.6,	43,	0.3493	,15:20:10	,17-Dec-2013
415,	1.4,	93.5,	43,	0.3671	,15:21:10	,17-Dec-2013
416,	1.6,	93.4,	43,	0.3979	,15:22:10	,17-Dec-2013
417,	17.5,	93.3,	43,	1.4949	,15:23:10	,17-Dec-2013
418,	8.0,	93.2,	44,	1.8645	,15:24:10	,17-Dec-2013
419,	1.3,	93.1,	44,	0.5321	,15:25:10	,17-Dec-2013
420,	1.6,	93.1,	44,	0.5316	,15:26:10	,17-Dec-2013
421,	1.6,	93.0,	44,	0.4423	,15:27:10	,17-Dec-2013
422,	1.8,	92.9,	44,	0.4271	,15:28:10	,17-Dec-2013
423,	1.7,	92.9,	44,	0.3853	,15:29:10	,17-Dec-2013

424, 1.7, 92.9, 44, 0.3580 ,15:30:10 ,17-Dec-2013

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DataRAM4 SN# D787 Dev# 0 Tag# 66 start: 17-Dec-2013 08:26:10 Interval: 00:01:00
(MASS)ug/m3
Temp (F)
Humidity (RH%)
Diameter (nm)
100
95
90
85
80
75
70
65
60
55
50
45
40
35
30
25
20
15
10
5
0
12/17/13 09:00:00
12/17/13 10:00:00
12/17/13 11:00:00
12/17/13 12:00:00
12/17/13 13:00:00
12/17/13 14:00:00
12/17/13 15:00:00

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DataRAM 4 SN#:D767 Dev#:0 Tag#:66 start:17-Dec-2013 08:26:10 interval:00:01:00
(MASS)ug/m3
Temp (F)
Humidity (RH%)
Diameter (nm)
4,000
3,800
3,600
3,400
3,200
3,000
2,800
2,600
2,400
2,200
2,000
1,800
1,600
1,400
1,200
1,000
800
600
400
200
0
12/17/13 09:00:00
12/17/13 10:00:00
12/17/13 11:00:00
12/17/13 12:00:00
12/17/13 13:00:00
12/17/13 14:00:00
12/17/13 15:00:00

ALTOL
Environmental Services, Inc.

P.O Box 359 Mercedita, PR 00715-0359

December 30, 2013

Mr. Benjamin Cintrón
Project Manager
Homeca Recycling

RE: AIR PARTICULATE MONITORING REPORT AT PUERTO RICO OLEFINES, PEÑUELAS, PR.

Dear Mr. Cintrón:

Altol Environmental Services, Inc., submits for your review the results obtained during the air particulates monitoring. These were performed following Altol operational procedures.

Altol's technician installed and removed the Data Ram-4 COM equipment from the Towers located at Puerto Rico Olefines in Peñuelas, PR. The equipment collected data every minute for approximately a eight (8) hour period. Also, during the installation and removal of the equipment the wind direction, wind velocity, weather and other conditions were documented as supplementary information. The wind velocity was measured using the Kestrell 4000 equipment.

Appendix 1 presents **Table 1** which summarizes the results of information collected at the towers. The data collected during this period indicated levels of particulate material (PM_{10}) that do not exceed the regulated limits of the United States Environmental Protection Agency (USEPA) of 150 $\mu g/m^3$ (40 CFR part 50) (**Appendix 2**). The information collected from each tower is presented in graphics in terms of mass and dates (**Appendix 3**).

The following Appendices present the tables and graphics results for mass ($\mu g/m^3$), temperature (^oF), relative humidity (RH) and diameter (nm), obtained from each Data Ram-4 COM equipment:

- **Appendix 4**, correspond to Tower # 1, December 18, 2013.
- **Appendix 5**, correspond to Tower # 2, December 18, 2013.

If you need any further information contact us at your earliest convenience at (787)-835-4242 or (787) 430-6141.

Statement of Authenticity,
Altol Environmental Services, Inc.

Certify that the results are complete and accurate

Cordially,

Carlos E. Ocasio Feliciano
Environmental Higiene

Parque Industrial Sabanetas ▫ Edificio M-1380 ▫ Ponce, PR 00715
Tel. (787) 835-4242 ▫ Fax (787) 835-2004

APPENDIX 1
FUGITIVE DUSTS SAMPLING AND TEST RESULTS

TABLE 1. FUGITIVE DUSTS SAMPLING AND ENVIRONMENTAL CONDITIONS

Air Monitoring Date	Air Monitoring Tower	Latitude and Longitude	Equipment Data Ram-4 COM						Equipment Kestrell Model 4000		Field Observation				Sampling Personnel
			Equipment Model/ID#	Start Time	Finish Time	Avg Mass ($\mu g/m^3$)	Regulatory Limits ($\mu g/m3$)	Avg Diameter (nm)	Wind Velocity Start Time (mph)	Wind Velocity Finish Time (mph)	Weather Condition Start Time	Weather Condition Finish Time	Wind Direction Start Time	Wind Direction Finish Time	
12/18/2013 12/18/2013	1		DR4/D786	8:08	15:57	1.45	150	0.37	2.0	3.8	Sunny	Sunny	North West	North West	JS
12/18/2013 12/18/2013	2		DR4/D788	8:36	14:19	4.06	150	0.69	2.4	4.8	Sunny	Sunny	North West	North West	JS

Standard Limit = 150 $\mu g/m^3$

Leyend

N/A - Not Aplicable
RV - Robert Velazquez
JRR- Jaime Rivera Rivera
JR- Juan Rivera
JC- Jose Cruz
NH Nehemias Hernandez
JS- José Santos

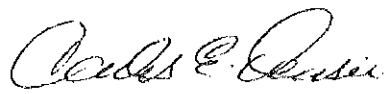
Towers Location:

Tower #1: PR-503
Tower #2: Disposal Area 3A
Tower #3: Access Road #1
Tower #4: Laboratory Area

ALTOL
Environmental Services, Inc.

Statement of Authenticity,
Certify that the results are complete and accurate

Cordially,



Carlos E. Ocasio Feliciano
Environmental Higiene

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APPENDIX 2
USEPA REGULATION PARAMETER

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National Ambient Air Quality Standards (NAAQS)

The Clean Air Act, which was last amended in 1990, requires EPA to set National Ambient Air Quality Standards (40 CFR part 50) for pollutants considered harmful to public health and the environment. The Clean Air Act established two types of national air quality standards. ***Primary standards*** set limits to protect public health, including the health of "sensitive" populations such as asthmatics, children, and the elderly. ***Secondary standards*** set limits to protect public welfare, including protection against decreased visibility, damage to animals, crops, vegetation, and buildings.

The EPA Office of Air Quality Planning and Standards (OAQPS) has set National Ambient Air Quality Standards for six principal pollutants, which are called "criteria" pollutants. They are listed below. Units of measure for the standards are parts per million (ppm) by volume, milligrams per cubic meter of air (mg/m^3), and micrograms per cubic meter of air ($\mu g/m^3$).

National Ambient Air Quality Standards

	Primary Standards		Secondary Standards	
Pollutant	Level	Averaging Time	Level	Averaging Time
Carbon Monoxide	9 ppm (10 mg/m^3)	8-hour [1]	None	
	35 ppm (40 mg/m^3)	1-hour [1]		
Lead	0.15 $\mu g/m^3$ [2]	Rolling 3-Month Average	Same as Primary	
	1.5 $\mu g/m^3$	Quarterly Average	Same as Primary	
Nitrogen Dioxide	0.053 ppm (100 $\mu g/m^3$)	Annual (Arithmetic Mean)	Same as Primary	
Particulate Matter (PM_{10})	150 $\mu g/m^3$	24-hour [3]	Same as Primary	
Particulate Matter ($PM_{2.5}$)	15.0 $\mu g/m^3$	Annual [4] (Arithmetic Mean)	Same as Primary	
	35 $\mu g/m^3$	24-hour [5]	Same as Primary	
Ozone	0.075 ppm (2008 std)	8-hour [6]	Same as Primary	
	0.08 ppm (1997 std)	8-hour [7]	Same as Primary	
	0.12 ppm	1-hour [8] (Applies only in limited areas)	Same as Primary	
Sulfur Dioxide	0.03 ppm	Annual (Arithmetic Mean)	0.5 ppm (1300 $\mu g/m^3$)	3-hour [1]
	0.14 ppm	24-hour [1]		

[1] Not to be exceeded more than once per year.

[2] Final rule signed October 15, 2008.

[3] Not to be exceeded more than once per year on average over 3 years.

[4] To attain this standard, the 3-year average of the weighted annual mean PM2.5 concentrations from single or multiple community-oriented monitors must not exceed 15.0 $\mu g/m3$.

[5] To attain this standard, the 3-year average of the 98th percentile of 24-hour concentrations at each population-oriented monitor within an area must not exceed 35 $\mu g/m3$ (effective December 17, 2006).

[6] To attain this standard, the 3-year average of the fourth-highest daily maximum 8-hour average ozone concentrations measured at each monitor within an area over each year must not exceed 0.075 ppm. (effective May 27, 2008)

[7] (a) To attain this standard, the 3-year average of the fourth-highest daily maximum 8-hour average ozone concentrations measured at each monitor within an area over each year must not exceed 0.08 ppm.

(b) The 1997 standard—and the implementation rules for that standard—will remain in place for implementation purposes as EPA undertakes rulemaking to address the transition from the 1997 ozone standard to the 2008 ozone standard.

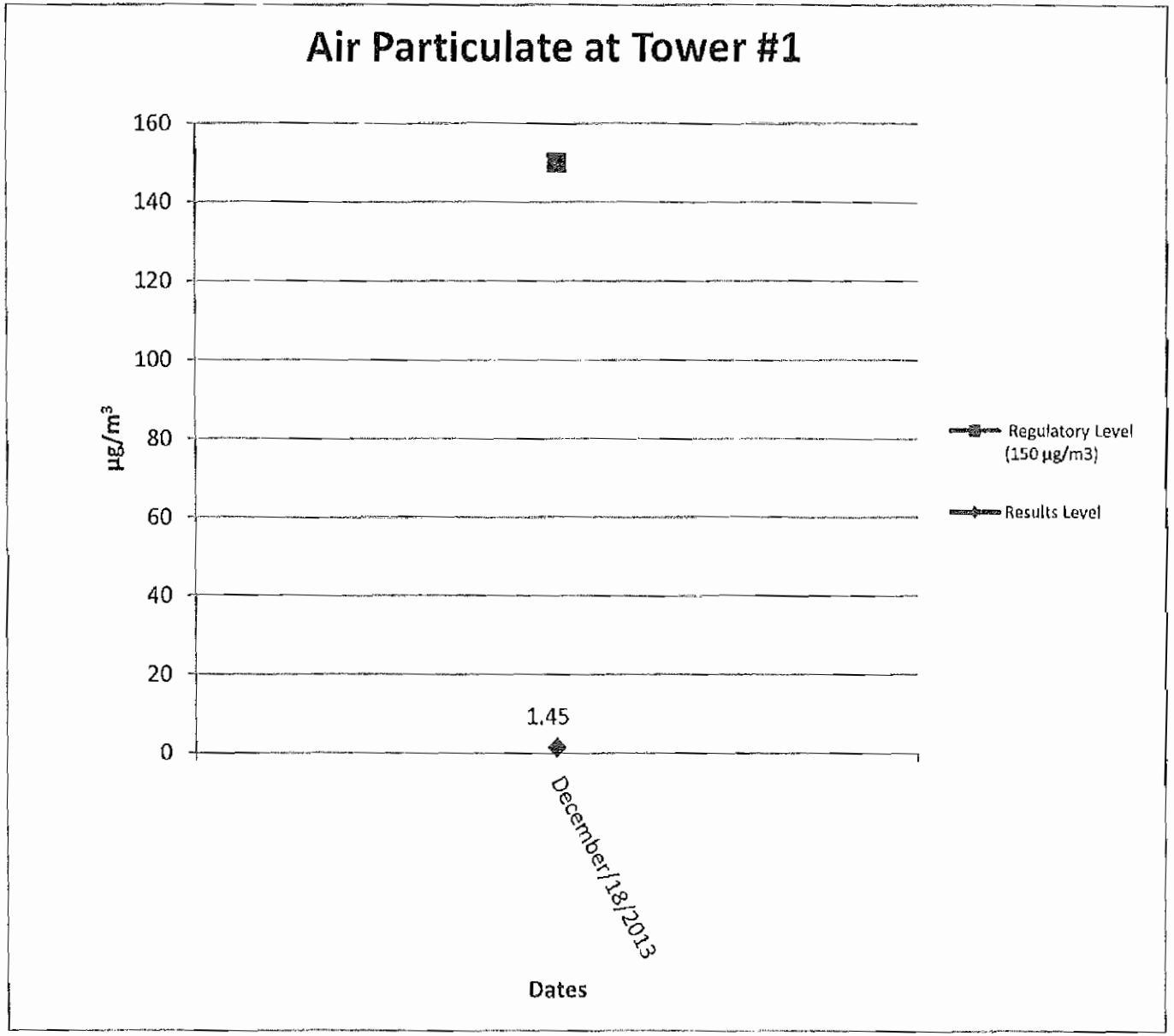
[8] (a) The standard is attained when the expected number of days per calendar year with maximum hourly average concentrations above 0.12 ppm is ≤ 1.

(b) As of June 15, 2005 EPA revoked the 1-hour ozone standard in all areas except the 8-hour ozone nonattainment Early Action Compact (EAC) Areas.

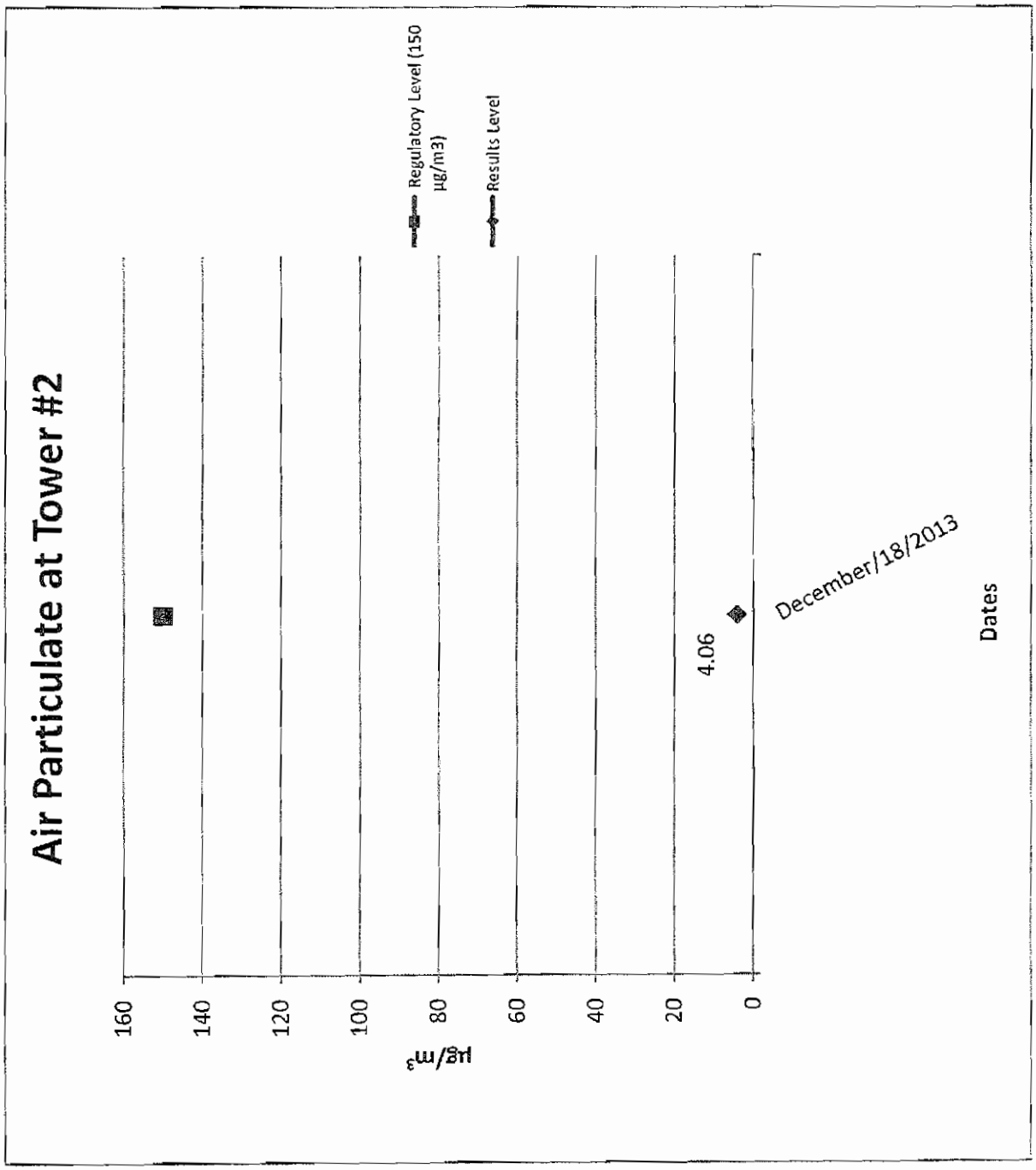
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APPENDIX 3
GRAPHICS OF MASS vs DATE

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APPENDIX 4

TOWER #1 AIR PARTICULATE MONITORING

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"Model Number", "DataRAM 4 ", 106
"Serial no. ", "D786 "
"Device no. ", HOMECA RECYCLING,PR OLEFINS TORRE 1 NORTE
"Tag Number ", 15
"Start Time ", 08:07:28
"Start Date ", 18-Dec-2013
"Log Period ", 00:01:00
"Number ", 470
"CalFactor ", 1.000000
"Unit ", 0
"Unit Name ", "(MASS)ug/m3"
"SIZE_CORRECT", "ENABLED"
"TEMPUNITS ", F
"Max MASS ", 20.484940
"Max MASS @ ", 18 ,08:25:28 ,18-Dec-2013
"Avg MASS ", 1.451749
"Max Diam ", 2.666308
"Max Diam @ ", 14 ,08:21:28 ,18-Dec-2013
"Avg Diam ", 0.371958
"ALARM ", "DISABLED"
"ALARM_LEVEL ", 0.0
"AUTO_ZERO ", "DISABLED"
"AZ INTERVAL ", 1
"Errors ", 0000

record	"(MASS)ug/m3"	Temp	RHumidity	Diameter		
1,	2.7,	81.7,	51,	0.3824	,08:08:28	,18-Dec-2013
2,	1.7,	81.8,	52,	0.3776	,08:09:28	,18-Dec-2013
3,	1.6,	81.8,	53,	0.3871	,08:10:28	,18-Dec-2013
4,	1.8,	81.8,	54,	0.4144	,08:11:28	,18-Dec-2013
5,	2.2,	81.8,	55,	0.4027	,08:12:28	,18-Dec-2013
6,	1.8,	81.8,	55,	0.3813	,08:13:28	,18-Dec-2013
7,	1.7,	81.8,	55,	0.3791	,08:14:28	,18-Dec-2013
8,	1.8,	81.8,	55,	0.3841	,08:15:28	,18-Dec-2013
9,	2.3,	81.8,	56,	0.4057	,08:16:28	,18-Dec-2013
10,	1.6,	81.9,	56,	0.4014	,08:17:28	,18-Dec-2013
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12,	2.2,	81.9,	56,	0.4196	,08:19:28	,18-Dec-2013
13,	2.7,	81.9,	56,	0.5941	,08:20:28	,18-Dec-2013
14,	19.7,	82.0,	56,	2.6663	,08:21:28	,18-Dec-2013
15,	5.4,	81.9,	56,	0.8454	,08:22:28	,18-Dec-2013
16,	14.4,	82.0,	56,	1.7266	,08:23:28	,18-Dec-2013
17,	15.6,	82.0,	56,	2.1721	,08:24:28	,18-Dec-2013
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19,	5.3,	82.0,	56,	1.3619	,08:26:28	,18-Dec-2013
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21,	2.2,	82.1,	56,	0.4179	,08:28:28	,18-Dec-2013
22,	2.3,	82.1,	56,	0.4700	,08:29:28	,18-Dec-2013
23,	2.1,	82.2,	56,	0.4515	,08:30:28	,18-Dec-2013
24,	2.0,	82.2,	56,	0.3867	,08:31:28	,18-Dec-2013
25,	1.8,	82.2,	56,	0.3796	,08:32:28	,18-Dec-2013
26,	1.6,	82.3,	56,	0.3741	,08:33:28	,18-Dec-2013
27,	1.7,	82.3,	56,	0.4169	,08:34:28	,18-Dec-2013
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29,	1.7,	82.3,	56,	0.4048	,08:36:28	,18-Dec-2013
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31,	1.7,	82.4,	56,	0.4082	,08:38:28	,18-Dec-2013
32,	2.0,	82.4,	56,	0.3938	,08:39:28	,18-Dec-2013
33,	2.0,	82.5,	56,	0.3803	,08:40:28	,18-Dec-2013
34,	1.9,	82.4,	56,	0.3486	,08:41:28	,18-Dec-2013
35,	1.9,	82.5,	56,	0.3973	,08:42:28	,18-Dec-2013
36,	2.2,	82.5,	56,	0.3889	,08:43:28	,18-Dec-2013
37,	1.8,	82.5,	56,	0.3824	,08:44:28	,18-Dec-2013
38,	1.7,	82.5,	56,	0.3839	,08:45:28	,18-Dec-2013
39,	1.8,	82.5,	56,	0.4464	,08:46:28	,18-Dec-2013

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41,	2.0,	82.6,	56,	0.4516	,08:48:28	,18-Dec-2013
42,	1.4,	82.6,	56,	0.4026	,08:49:28	,18-Dec-2013
43,	2.1,	82.6,	56,	0.4444	,08:50:28	,18-Dec-2013
44,	1.7,	82.6,	56,	0.4476	,08:51:28	,18-Dec-2013
45,	1.5,	82.6,	56,	0.4039	,08:52:28	,18-Dec-2013
46,	1.5,	82.7,	56,	0.4071	,08:53:28	,18-Dec-2013
47,	1.7,	82.7,	56,	0.4014	,08:54:28	,18-Dec-2013
48,	1.6,	82.7,	56,	0.3912	,08:55:28	,18-Dec-2013
49,	1.3,	82.7,	56,	0.3716	,08:56:28	,18-Dec-2013
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51,	1.4,	82.7,	56,	0.3842	,08:58:28	,18-Dec-2013
52,	1.5,	82.7,	56,	0.3883	,08:59:28	,18-Dec-2013
53,	1.7,	82.7,	56,	0.3801	,09:00:28	,18-Dec-2013
54,	1.8,	82.8,	56,	0.3890	,09:01:28	,18-Dec-2013
55,	1.5,	82.8,	56,	0.3539	,09:02:28	,18-Dec-2013
56,	1.8,	82.8,	56,	0.3501	,09:03:28	,18-Dec-2013
57,	1.9,	82.8,	56,	0.3807	,09:04:28	,18-Dec-2013
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59,	1.6,	82.8,	56,	0.3670	,09:06:28	,18-Dec-2013
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62,	1.7,	82.9,	56,	0.4031	,09:09:28	,18-Dec-2013
63,	1.8,	82.9,	56,	0.3698	,09:10:28	,18-Dec-2013
64,	1.5,	82.9,	56,	0.3576	,09:11:28	,18-Dec-2013
65,	1.7,	82.9,	56,	0.3675	,09:12:28	,18-Dec-2013
66,	2.1,	82.9,	56,	0.3454	,09:13:28	,18-Dec-2013
67,	1.6,	82.9,	56,	0.3339	,09:14:28	,18-Dec-2013
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69,	1.8,	82.9,	56,	0.3306	,09:16:28	,18-Dec-2013
70,	1.3,	82.9,	56,	0.3325	,09:17:28	,18-Dec-2013
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72,	1.4,	82.9,	56,	0.3302	,09:19:28	,18-Dec-2013
73,	2.0,	82.9,	56,	0.3324	,09:20:28	,18-Dec-2013
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75,	1.5,	83.0,	56,	0.3432	,09:22:28	,18-Dec-2013
76,	1.9,	83.0,	56,	0.3986	,09:23:28	,18-Dec-2013
77,	1.5,	83.0,	56,	0.3948	,09:24:28	,18-Dec-2013
78,	1.7,	83.1,	56,	0.3816	,09:25:28	,18-Dec-2013
79,	1.7,	83.0,	56,	0.3896	,09:26:28	,18-Dec-2013
80,	1.8,	83.0,	56,	0.3715	,09:27:28	,18-Dec-2013
81,	1.6,	83.1,	56,	0.3682	,09:28:28	,18-Dec-2013
82,	1.4,	83.0,	56,	0.3651	,09:29:28	,18-Dec-2013
83,	1.5,	83.0,	56,	0.3673	,09:30:28	,18-Dec-2013
84,	1.8,	83.1,	56,	0.3766	,09:31:28	,18-Dec-2013
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86,	1.5,	83.1,	56,	0.3691	,09:33:28	,18-Dec-2013
87,	1.7,	83.1,	56,	0.3671	,09:34:28	,18-Dec-2013
88,	1.8,	83.1,	56,	0.3769	,09:35:28	,18-Dec-2013
89,	1.5,	83.1,	56,	0.4170	,09:36:28	,18-Dec-2013
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91,	1.9,	83.0,	56,	0.4135	,09:38:28	,18-Dec-2013
92,	1.9,	83.1,	56,	0.4268	,09:39:28	,18-Dec-2013
93,	1.5,	83.1,	56,	0.3890	,09:40:28	,18-Dec-2013
94,	1.7,	83.0,	56,	0.3842	,09:41:28	,18-Dec-2013
95,	1.7,	83.0,	56,	0.3826	,09:42:28	,18-Dec-2013
96,	1.4,	83.0,	56,	0.3696	,09:43:28	,18-Dec-2013
97,	1.5,	83.0,	56,	0.3631	,09:44:28	,18-Dec-2013
98,	1.3,	83.0,	56,	0.3580	,09:45:28	,18-Dec-2013
99,	1.4,	83.0,	56,	0.3543	,09:46:28	,18-Dec-2013
100,	1.1,	83.0,	56,	0.3513	,09:47:28	,18-Dec-2013
101,	1.4,	83.0,	56,	0.3543	,09:48:28	,18-Dec-2013
102,	1.7,	82.9,	56,	0.3583	,09:49:28	,18-Dec-2013
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122,	1.2,	82.9,	56,	0.3447	,10:09:28	,18-Dec-2013
123,	1.1,	82.9,	56,	0.3442	,10:10:28	,18-Dec-2013
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127,	1.3,	82.8,	56,	0.3390	,10:14:28	,18-Dec-2013
128,	1.5,	82.8,	56,	0.3397	,10:15:28	,18-Dec-2013
129,	1.8,	82.8,	56,	0.3469	,10:16:28	,18-Dec-2013
130,	1.0,	82.8,	56,	0.3426	,10:17:28	,18-Dec-2013
131,	1.3,	82.8,	56,	0.3443	,10:18:28	,18-Dec-2013
132,	1.1,	82.8,	56,	0.3434	,10:19:28	,18-Dec-2013
133,	1.1,	82.7,	56,	0.3434	,10:20:28	,18-Dec-2013
134,	0.9,	82.7,	56,	0.3422	,10:21:28	,18-Dec-2013
135,	1.2,	82.8,	56,	0.3435	,10:22:28	,18-Dec-2013
136,	1.3,	82.7,	56,	0.3444	,10:23:28	,18-Dec-2013
137,	1.4,	82.7,	56,	0.3261	,10:24:28	,18-Dec-2013
138,	0.9,	82.7,	56,	0.3263	,10:25:28	,18-Dec-2013
139,	1.2,	82.7,	56,	0.3232	,10:26:28	,18-Dec-2013
140,	1.3,	82.7,	56,	0.3216	,10:27:28	,18-Dec-2013
141,	1.4,	82.7,	56,	0.3211	,10:28:28	,18-Dec-2013
142,	1.4,	82.8,	56,	0.3201	,10:29:28	,18-Dec-2013
143,	1.5,	82.7,	56,	0.3187	,10:30:28	,18-Dec-2013
144,	1.5,	82.7,	56,	0.3197	,10:31:28	,18-Dec-2013
145,	1.4,	82.7,	56,	0.3229	,10:32:28	,18-Dec-2013
146,	0.9,	82.7,	56,	0.3297	,10:33:28	,18-Dec-2013
147,	1.3,	82.7,	56,	0.3259	,10:34:28	,18-Dec-2013
148,	1.4,	82.7,	56,	0.3254	,10:35:28	,18-Dec-2013
149,	1.2,	82.7,	56,	0.3278	,10:36:28	,18-Dec-2013
150,	1.6,	82.7,	56,	0.3241	,10:37:28	,18-Dec-2013
151,	1.3,	82.7,	56,	0.3357	,10:38:28	,18-Dec-2013
152,	1.5,	82.7,	56,	0.3353	,10:39:28	,18-Dec-2013
153,	1.3,	82.7,	56,	0.3357	,10:40:28	,18-Dec-2013
154,	1.5,	82.7,	56,	0.3353	,10:41:28	,18-Dec-2013
155,	1.0,	82.7,	56,	0.3360	,10:42:28	,18-Dec-2013
156,	1.6,	82.7,	56,	0.3354	,10:43:28	,18-Dec-2013
157,	1.9,	82.7,	56,	0.3365	,10:44:28	,18-Dec-2013
158,	1.5,	82.7,	56,	0.3369	,10:45:28	,18-Dec-2013
159,	1.2,	82.7,	56,	0.3373	,10:46:28	,18-Dec-2013
160,	1.2,	82.7,	56,	0.3375	,10:47:28	,18-Dec-2013
161,	1.4,	82.7,	56,	0.3375	,10:48:28	,18-Dec-2013
162,	1.1,	82.7,	56,	0.3375	,10:49:28	,18-Dec-2013
163,	1.2,	82.7,	56,	0.3375	,10:50:28	,18-Dec-2013
164,	1.4,	82.7,	56,	0.3410	,10:51:28	,18-Dec-2013
165,	1.0,	82.7,	56,	0.3410	,10:52:28	,18-Dec-2013
166,	1.5,	82.7,	56,	0.3429	,10:53:28	,18-Dec-2013
167,	1.0,	82.7,	56,	0.3413	,10:54:28	,18-Dec-2013

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168,	1.5,	82.7,	56,	0.3429	,10:55:28	,18-Dec-2013
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175,	1.5,	82.6,	56,	0.3463	,11:02:28	,18-Dec-2013
176,	0.9,	82.6,	56,	0.3413	,11:03:28	,18-Dec-2013
177,	1.1,	82.6,	56,	0.3420	,11:04:28	,18-Dec-2013
178,	1.1,	82.6,	56,	0.3421	,11:05:28	,18-Dec-2013
179,	1.2,	82.6,	56,	0.3401	,11:06:28	,18-Dec-2013
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186,	1.4,	82.5,	56,	0.3257	,11:13:28	,18-Dec-2013
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191,	1.4,	82.5,	57,	0.3305	,11:18:28	,18-Dec-2013
192,	1.5,	82.5,	57,	0.3330	,11:19:28	,18-Dec-2013
193,	1.3,	82.5,	57,	0.3351	,11:20:28	,18-Dec-2013
194,	1.3,	82.5,	57,	0.3351	,11:21:28	,18-Dec-2013
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199,	1.4,	82.5,	57,	0.3368	,11:26:28	,18-Dec-2013
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225,	1.2,	82.5,	57,	0.3483	,11:52:28	,18-Dec-2013
226,	1.0,	82.4,	57,	0.3462	,11:53:28	,18-Dec-2013
227,	1.1,	82.5,	56,	0.3483	,11:54:28	,18-Dec-2013
228,	1.2,	82.5,	57,	0.3487	,11:55:28	,18-Dec-2013
229,	1.2,	82.4,	56,	0.3490	,11:56:28	,18-Dec-2013
230,	1.1,	82.4,	56,	0.3480	,11:57:28	,18-Dec-2013
231,	1.1,	82.4,	57,	0.3478	,11:58:28	,18-Dec-2013

232,	1.6,	82.4,	56,	0.3541	,11:59:28	,18-Dec-2013
233,	1.4,	82.4,	57,	0.3520	,12:00:28	,18-Dec-2013
234,	1.2,	82.4,	56,	0.3516	,12:01:28	,18-Dec-2013
235,	1.4,	82.4,	56,	0.3540	,12:02:28	,18-Dec-2013
236,	1.7,	82.4,	56,	0.3638	,12:03:28	,18-Dec-2013
237,	1.7,	82.4,	56,	0.4063	,12:04:28	,18-Dec-2013
238,	0.9,	82.4,	56,	0.3860	,12:05:28	,18-Dec-2013
239,	1.0,	82.4,	56,	0.3898	,12:06:28	,18-Dec-2013
240,	1.2,	82.4,	56,	0.3953	,12:07:28	,18-Dec-2013
241,	0.9,	82.4,	56,	0.3674	,12:08:28	,18-Dec-2013
242,	1.4,	82.3,	56,	0.3830	,12:09:28	,18-Dec-2013
243,	1.3,	82.3,	56,	0.3782	,12:10:28	,18-Dec-2013
244,	1.1,	82.3,	56,	0.3686	,12:11:28	,18-Dec-2013
245,	1.1,	82.3,	56,	0.3660	,12:12:28	,18-Dec-2013
246,	1.0,	82.3,	56,	0.3638	,12:13:28	,18-Dec-2013
247,	0.8,	82.3,	56,	0.3576	,12:14:28	,18-Dec-2013
248,	0.9,	82.3,	56,	0.3609	,12:15:28	,18-Dec-2013
249,	0.9,	82.3,	56,	0.3627	,12:16:28	,18-Dec-2013
250,	1.3,	82.3,	56,	0.3664	,12:17:28	,18-Dec-2013
251,	1.0,	82.3,	56,	0.3589	,12:18:28	,18-Dec-2013
252,	1.0,	82.3,	56,	0.3578	,12:19:28	,18-Dec-2013
253,	1.3,	82.3,	56,	0.3643	,12:20:28	,18-Dec-2013
254,	1.0,	82.3,	56,	0.3550	,12:21:28	,18-Dec-2013
255,	1.1,	82.3,	56,	0.3572	,12:22:28	,18-Dec-2013
256,	0.7,	82.3,	56,	0.3504	,12:23:28	,18-Dec-2013
257,	1.1,	82.3,	56,	0.3561	,12:24:28	,18-Dec-2013
258,	1.0,	82.2,	56,	0.3543	,12:25:28	,18-Dec-2013
259,	1.4,	82.3,	56,	0.3622	,12:26:28	,18-Dec-2013
260,	0.9,	82.3,	56,	0.3545	,12:27:28	,18-Dec-2013
261,	1.1,	82.3,	56,	0.3570	,12:28:28	,18-Dec-2013
262,	1.2,	82.3,	56,	0.3586	,12:29:28	,18-Dec-2013
263,	0.8,	82.2,	56,	0.3506	,12:30:28	,18-Dec-2013
264,	1.0,	82.2,	56,	0.3544	,12:31:28	,18-Dec-2013
265,	1.3,	82.2,	57,	0.3554	,12:32:28	,18-Dec-2013
266,	1.1,	82.2,	57,	0.3458	,12:33:28	,18-Dec-2013
267,	1.1,	82.2,	56,	0.3460	,12:34:28	,18-Dec-2013
268,	1.4,	82.2,	56,	0.3476	,12:35:28	,18-Dec-2013
269,	0.8,	82.1,	57,	0.3433	,12:36:28	,18-Dec-2013
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271,	1.1,	82.1,	57,	0.3453	,12:38:28	,18-Dec-2013
272,	1.1,	82.1,	56,	0.3448	,12:39:28	,18-Dec-2013
273,	1.2,	82.1,	57,	0.3463	,12:40:28	,18-Dec-2013
274,	1.2,	82.2,	57,	0.3459	,12:41:28	,18-Dec-2013
275,	1.2,	82.1,	57,	0.3457	,12:42:28	,18-Dec-2013
276,	1.2,	82.1,	57,	0.3456	,12:43:28	,18-Dec-2013
277,	1.2,	82.1,	57,	0.3480	,12:44:28	,18-Dec-2013
278,	1.1,	82.1,	57,	0.3471	,12:45:28	,18-Dec-2013
279,	1.3,	82.2,	57,	0.3494	,12:46:28	,18-Dec-2013
280,	1.1,	82.1,	57,	0.3474	,12:47:28	,18-Dec-2013
281,	1.1,	82.1,	57,	0.3475	,12:48:28	,18-Dec-2013
282,	1.2,	82.1,	57,	0.3455	,12:49:28	,18-Dec-2013
283,	1.2,	82.1,	57,	0.3413	,12:50:28	,18-Dec-2013
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285,	1.4,	82.1,	57,	0.3388	,12:52:28	,18-Dec-2013
286,	1.0,	82.1,	57,	0.3385	,12:53:28	,18-Dec-2013
287,	0.9,	82.1,	57,	0.3383	,12:54:28	,18-Dec-2013
288,	1.3,	82.0,	57,	0.3387	,12:55:28	,18-Dec-2013
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294,	1.3,	82.0,	57,	0.3367	,13:01:28	,18-Dec-2013
295,	1.0,	82.0,	57,	0.3368	,13:02:28	,18-Dec-2013

296,	1.1,	82.0,	57,	0.3368	,13:03:28	,18-Dec-2013
297,	1.3,	82.0,	57,	0.3367	,13:04:28	,18-Dec-2013
298,	1.3,	82.0,	57,	0.3367	,13:05:28	,18-Dec-2013
299,	1.1,	82.0,	57,	0.3368	,13:06:28	,18-Dec-2013
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303,	1.0,	82.0,	57,	0.3369	,13:10:28	,18-Dec-2013
304,	1.4,	82.0,	57,	0.3366	,13:11:28	,18-Dec-2013
305,	1.1,	82.0,	57,	0.3368	,13:12:28	,18-Dec-2013
306,	1.6,	82.0,	57,	0.3365	,13:13:28	,18-Dec-2013
307,	1.5,	82.0,	57,	0.3365	,13:14:28	,18-Dec-2013
308,	1.1,	82.0,	57,	0.3368	,13:15:28	,18-Dec-2013
309,	1.2,	82.0,	57,	0.3367	,13:16:28	,18-Dec-2013
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312,	1.5,	82.0,	57,	0.3366	,13:19:28	,18-Dec-2013
313,	1.0,	82.0,	57,	0.3368	,13:20:28	,18-Dec-2013
314,	1.0,	82.0,	57,	0.3366	,13:21:28	,18-Dec-2013
315,	1.2,	82.0,	57,	0.3360	,13:22:28	,18-Dec-2013
316,	0.9,	82.0,	57,	0.3363	,13:23:28	,18-Dec-2013
317,	1.4,	82.0,	57,	0.3461	,13:24:28	,18-Dec-2013
318,	1.1,	82.0,	57,	0.3539	,13:25:28	,18-Dec-2013
319,	1.2,	82.0,	57,	0.3552	,13:26:28	,18-Dec-2013
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322,	1.3,	82.0,	57,	0.3561	,13:29:28	,18-Dec-2013
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324,	1.1,	82.0,	57,	0.3473	,13:31:28	,18-Dec-2013
325,	0.9,	82.0,	57,	0.3463	,13:32:28	,18-Dec-2013
326,	1.2,	81.9,	57,	0.3499	,13:33:28	,18-Dec-2013
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328,	1.1,	81.9,	57,	0.3486	,13:35:28	,18-Dec-2013
329,	0.9,	81.9,	57,	0.3471	,13:36:28	,18-Dec-2013
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335,	1.0,	81.8,	57,	0.3647	,13:42:28	,18-Dec-2013
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339,	0.9,	81.8,	57,	0.3608	,13:46:28	,18-Dec-2013
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342,	1.0,	81.8,	57,	0.3626	,13:49:28	,18-Dec-2013
343,	1.2,	81.8,	58,	0.3671	,13:50:28	,18-Dec-2013
344,	0.9,	81.8,	57,	0.3602	,13:51:28	,18-Dec-2013
345,	1.4,	81.8,	57,	0.3674	,13:52:28	,18-Dec-2013
346,	1.2,	81.8,	57,	0.3636	,13:53:28	,18-Dec-2013
347,	1.0,	81.8,	57,	0.3632	,13:54:28	,18-Dec-2013
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349,	1.1,	81.8,	57,	0.3644	,13:56:28	,18-Dec-2013
350,	1.1,	81.8,	57,	0.3645	,13:57:28	,18-Dec-2013
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352,	1.2,	81.8,	57,	0.3657	,13:59:28	,18-Dec-2013
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354,	1.2,	81.8,	57,	0.3670	,14:01:28	,18-Dec-2013
355,	1.1,	81.8,	57,	0.3678	,14:02:28	,18-Dec-2013
356,	1.4,	81.8,	57,	0.3819	,14:03:28	,18-Dec-2013
357,	0.9,	81.8,	57,	0.3680	,14:04:28	,18-Dec-2013
358,	1.2,	81.8,	58,	0.3810	,14:05:28	,18-Dec-2013
359,	1.2,	81.7,	58,	0.3655	,14:06:28	,18-Dec-2013

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366,	1.1,	81.6,	58,	0.3626	,14:13:28	,18-Dec-2013
367,	1.1,	81.6,	58,	0.3616	,14:14:28	,18-Dec-2013
368,	1.1,	81.7,	58,	0.3612	,14:15:28	,18-Dec-2013
369,	1.2,	81.6,	58,	0.3643	,14:16:28	,18-Dec-2013
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371,	1.1,	81.6,	58,	0.3630	,14:18:28	,18-Dec-2013
372,	0.8,	81.6,	58,	0.3558	,14:19:28	,18-Dec-2013
373,	1.0,	81.6,	58,	0.3615	,14:20:28	,18-Dec-2013
374,	1.2,	81.6,	58,	0.3638	,14:21:28	,18-Dec-2013
375,	1.1,	81.6,	58,	0.3636	,14:22:28	,18-Dec-2013
376,	0.9,	81.6,	58,	0.3601	,14:23:28	,18-Dec-2013
377,	1.2,	81.6,	58,	0.3630	,14:24:28	,18-Dec-2013
378,	1.0,	81.5,	58,	0.3590	,14:25:28	,18-Dec-2013
379,	1.4,	81.5,	58,	0.3589	,14:26:28	,18-Dec-2013
380,	1.0,	81.5,	58,	0.3502	,14:27:28	,18-Dec-2013
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382,	1.0,	81.5,	58,	0.3508	,14:29:28	,18-Dec-2013
383,	1.3,	81.5,	58,	0.3550	,14:30:28	,18-Dec-2013
384,	1.0,	81.5,	58,	0.3514	,14:31:28	,18-Dec-2013
385,	1.2,	81.5,	58,	0.3526	,14:32:28	,18-Dec-2013
386,	1.0,	81.5,	58,	0.3494	,14:33:28	,18-Dec-2013
387,	1.1,	81.5,	58,	0.3501	,14:34:28	,18-Dec-2013
388,	1.1,	81.4,	58,	0.3507	,14:35:28	,18-Dec-2013
389,	1.0,	81.5,	58,	0.3487	,14:36:28	,18-Dec-2013
390,	1.2,	81.5,	58,	0.3512	,14:37:28	,18-Dec-2013
391,	0.9,	81.4,	58,	0.3482	,14:38:28	,18-Dec-2013
392,	1.2,	81.4,	58,	0.3520	,14:39:28	,18-Dec-2013
393,	0.9,	81.4,	58,	0.3476	,14:40:28	,18-Dec-2013
394,	1.0,	81.4,	58,	0.3493	,14:41:28	,18-Dec-2013
395,	1.0,	81.4,	58,	0.3486	,14:42:28	,18-Dec-2013
396,	1.4,	81.4,	58,	0.3580	,14:43:28	,18-Dec-2013
397,	0.9,	81.4,	58,	0.3535	,14:44:28	,18-Dec-2013
398,	0.8,	81.4,	58,	0.3513	,14:45:28	,18-Dec-2013
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408,	1.1,	81.4,	58,	0.3635	,14:55:28	,18-Dec-2013
409,	0.7,	81.4,	58,	0.3538	,14:56:28	,18-Dec-2013
410,	1.3,	81.3,	58,	0.3522	,14:57:28	,18-Dec-2013
411,	1.1,	81.3,	58,	0.3504	,14:58:28	,18-Dec-2013
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415,	1.1,	81.3,	58,	0.3588	,15:02:28	,18-Dec-2013
416,	1.0,	81.4,	58,	0.3562	,15:03:28	,18-Dec-2013
417,	1.0,	81.3,	58,	0.3549	,15:04:28	,18-Dec-2013
418,	1.1,	81.3,	58,	0.3575	,15:05:28	,18-Dec-2013
419,	1.3,	81.3,	58,	0.3580	,15:06:28	,18-Dec-2013
420,	1.2,	81.3,	58,	0.3574	,15:07:28	,18-Dec-2013
421,	0.9,	81.4,	58,	0.3533	,15:08:28	,18-Dec-2013
422,	1.0,	81.4,	58,	0.3555	,15:09:28	,18-Dec-2013
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438,	1.3,	81.4,	58,	0.3576	,15:25:28	,18-Dec-2013
439,	1.3,	81.4,	58,	0.3572	,15:26:28	,18-Dec-2013
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444,	1.6,	81.4,	58,	0.3582	,15:31:28	,18-Dec-2013
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446,	1.4,	81.4,	58,	0.3536	,15:33:28	,18-Dec-2013
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448,	1.5,	81.4,	58,	0.3518	,15:35:28	,18-Dec-2013
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455,	1.5,	81.4,	58,	0.3656	,15:42:28	,18-Dec-2013
456,	1.2,	81.4,	58,	0.3600	,15:43:28	,18-Dec-2013
457,	0.8,	81.4,	58,	0.3523	,15:44:28	,18-Dec-2013
458,	1.3,	81.4,	58,	0.3603	,15:45:28	,18-Dec-2013
459,	1.2,	81.4,	58,	0.3639	,15:46:28	,18-Dec-2013
460,	1.9,	81.5,	58,	0.3775	,15:47:28	,18-Dec-2013
461,	1.1,	81.5,	58,	0.3551	,15:48:28	,18-Dec-2013
462,	1.4,	81.5,	58,	0.3597	,15:49:28	,18-Dec-2013
463,	1.4,	81.5,	58,	0.3589	,15:50:28	,18-Dec-2013
464,	1.3,	81.5,	58,	0.3738	,15:51:28	,18-Dec-2013
465,	1.1,	81.4,	58,	0.3720	,15:52:28	,18-Dec-2013
466,	1.4,	81.5,	58,	0.3782	,15:53:28	,18-Dec-2013
467,	1.1,	81.4,	58,	0.3653	,15:54:28	,18-Dec-2013
468,	1.0,	81.4,	58,	0.3638	,15:55:28	,18-Dec-2013
469,	1.1,	81.5,	58,	0.3646	,15:56:28	,18-Dec-2013
470,	0.9,	81.5,	58,	0.3619	,15:57:28	,18-Dec-2013

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DataRAM 4 SN# D788 Dev# 0 Tag# 16 start 18-Dec-2013 09:07:28 Interval: 00:01:00
(MASS)ug/m3
Temp (F)
Humidity (RH%)
Diameter (nm)
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
12/18/13 09:00:00
12/18/13 10:00:00
12/18/13 11:00:00
12/18/13 12:00:00
12/18/13 13:00:00
12/18/13 14:00:00
12/18/13 15:00:00
12/18/13 16:00:00

DataRAM 4 SN#D786 Dev#:0 Tag#:15 start:18-Dec-2013 08:07:28 interval:00:01:00
(MASS)ug/m3
Temp (F)
Humidity (RH%)
Diameter (nm)
80
75
70
65
60
55
50
45
40
35
30
25
20
15
10
5
0
12/18/13 09:00:00
12/18/13 10:00:00
12/18/13 11:00:00
12/18/13 12:00:00
12/18/13 13:00:00
12/18/13 14:00:00
12/18/13 15:00:00
12/18/13 16:00:00

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DataRAM 4 SN#:D788 Dev#:2 Tag#:69 start: 18-Dec-2013 08:36:42 interval: 00:01:00
(MASS)ug/m3
Temp (F)
Humidity (RH%)
Diameter (nm)
4,000
3,800
3,600
3,400
3,200
3,000
2,800
2,600
2,400
2,200
2,000
1,800
1,600
1,400
1,200
1,000
800
600
400
200
0
12/18/13 09:00:00
12/18/13 09:30:00
12/18/13 10:00:00
12/18/13 10:30:00
12/18/13 11:00:00
12/18/13 11:30:00
12/18/13 12:00:00
12/18/13 12:30:00
12/18/13 13:00:00
12/18/13 13:30:00
12/18/13 14:00:00

APPENDIX 5
TOWER #2 AIR PARTICULATE MONITORING

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"Model Number", "DataRAM 4 ", 106
"Serial no. ", "D788 "
"Device no. ", HOMECA RECYCLING,PR OLEFINS TORRE 2 SUR
"Tag Number ", 59
"Start Time ", 08:35:42
"Start Date ", 18-Dec-2013
"Log Period ", 00:01:00
"Number ", 344
"CalFactor ", 1.000000
"Unit ", 0
"Unit Name ", "(MASS)ug/m3"
"SIZE_CORRECT", "ENABLED"
"TEMPUNITS ", F
"Max MASS ", 157.076300
"Max MASS @ ", 276 ,13:11:42 ,18-Dec-2013
"Avg MASS ", 4.058280
"Max Diam ", 4.127007
"Max Diam @ ", 272 ,13:07:42 ,18-Dec-2013
"Avg Diam ", 0.691368
"ALARM ", "DISABLED"
"ALARM_LEVEL ", 0.0
"AUTO_ZERO ", "DISABLED"
"AZ INTERVAL ", 1
"Errors ", 0000

record	"(MASS)ug/m3"	Temp	RHumidity	Diameter		
1,	3.0,	77.1,	49,	0.3421	,08:36:42	,18-Dec-2013
2,	1.2,	77.4,	53,	0.3431	,08:37:42	,18-Dec-2013
3,	0.8,	77.7,	56,	0.3414	,08:38:42	,18-Dec-2013
4,	0.5,	78.0,	58,	0.3403	,08:39:42	,18-Dec-2013
5,	0.8,	78.3,	59,	0.3415	,08:40:42	,18-Dec-2013
6,	0.5,	78.7,	60,	0.3399	,08:41:42	,18-Dec-2013
7,	0.5,	79.1,	60,	0.3399	,08:42:42	,18-Dec-2013
8,	0.3,	79.5,	61,	0.3389	,08:43:42	,18-Dec-2013
9,	0.4,	79.9,	60,	0.3395	,08:44:42	,18-Dec-2013
10,	0.1,	80.2,	60,	0.3379	,08:45:42	,18-Dec-2013
11,	0.0,	80.6,	60,	0.3377	,08:46:42	,18-Dec-2013
12,	0.1,	80.9,	60,	0.3382	,08:47:42	,18-Dec-2013
13,	0.2,	81.2,	60,	0.3383	,08:48:42	,18-Dec-2013
14,	0.1,	81.5,	59,	0.3379	,08:49:42	,18-Dec-2013
15,	0.1,	81.7,	59,	0.3378	,08:50:42	,18-Dec-2013
16,	0.1,	81.9,	59,	0.3380	,08:51:42	,18-Dec-2013
17,	0.1,	82.2,	58,	0.3381	,08:52:42	,18-Dec-2013
18,	0.1,	82.4,	58,	0.3382	,08:53:42	,18-Dec-2013
19,	0.3,	82.6,	58,	0.3387	,08:54:42	,18-Dec-2013
20,	0.1,	82.8,	57,	0.3381	,08:55:42	,18-Dec-2013
21,	0.1,	83.0,	57,	0.3378	,08:56:42	,18-Dec-2013
22,	0.1,	83.2,	57,	0.3377	,08:57:42	,18-Dec-2013
23,	0.1,	83.3,	57,	0.3381	,08:58:42	,18-Dec-2013
24,	0.2,	83.5,	56,	0.3385	,08:59:42	,18-Dec-2013
25,	0.1,	83.6,	56,	0.3380	,09:00:42	,18-Dec-2013
26,	0.2,	83.7,	56,	0.3383	,09:01:42	,18-Dec-2013
27,	0.1,	83.9,	56,	0.3379	,09:02:42	,18-Dec-2013
28,	0.1,	84.1,	56,	0.3378	,09:03:42	,18-Dec-2013
29,	0.0,	84.3,	55,	0.3377	,09:04:42	,18-Dec-2013
30,	0.0,	84.4,	55,	0.3376	,09:05:42	,18-Dec-2013
31,	0.1,	84.5,	55,	0.3379	,09:06:42	,18-Dec-2013
32,	0.0,	84.6,	55,	0.3377	,09:07:42	,18-Dec-2013
33,	0.0,	84.7,	55,	0.3377	,09:08:42	,18-Dec-2013
34,	0.1,	84.9,	55,	0.3379	,09:09:42	,18-Dec-2013
35,	0.0,	85.0,	54,	0.3376	,09:10:42	,18-Dec-2013
36,	0.0,	85.1,	54,	0.3376	,09:11:42	,18-Dec-2013
37,	0.1,	85.1,	54,	0.3379	,09:12:42	,18-Dec-2013
38,	0.1,	85.2,	54,	0.3377	,09:13:42	,18-Dec-2013
39,	0.1,	85.3,	54,	0.3378	,09:14:42	,18-Dec-2013

40,	0.2,	85.4,	54,	0.3382	,09:15:42	,18-Dec-2013
41,	0.1,	85.4,	54,	0.3379	,09:16:42	,18-Dec-2013
42,	0.0,	85.5,	54,	0.3376	,09:17:42	,18-Dec-2013
43,	0.0,	85.7,	54,	0.3375	,09:18:42	,18-Dec-2013
44,	0.0,	85.8,	54,	0.3376	,09:19:42	,18-Dec-2013
45,	0.0,	85.9,	53,	0.3375	,09:20:42	,18-Dec-2013
46,	0.1,	86.0,	53,	0.3379	,09:21:42	,18-Dec-2013
47,	0.1,	86.2,	53,	0.3381	,09:22:42	,18-Dec-2013
48,	0.1,	86.2,	52,	0.3381	,09:23:42	,18-Dec-2013
49,	0.3,	86.2,	52,	0.3387	,09:24:42	,18-Dec-2013
50,	0.3,	86.3,	52,	0.3388	,09:25:42	,18-Dec-2013
51,	0.1,	86.3,	52,	0.3380	,09:26:42	,18-Dec-2013
52,	0.2,	86.3,	52,	0.3386	,09:27:42	,18-Dec-2013
53,	0.1,	86.4,	52,	0.3378	,09:28:42	,18-Dec-2013
54,	0.1,	86.5,	52,	0.3378	,09:29:42	,18-Dec-2013
55,	0.1,	86.6,	52,	0.3381	,09:30:42	,18-Dec-2013
56,	0.3,	86.8,	51,	0.3387	,09:31:42	,18-Dec-2013
57,	0.1,	87.0,	51,	0.3379	,09:32:42	,18-Dec-2013
58,	0.1,	87.2,	51,	0.3378	,09:33:42	,18-Dec-2013
59,	0.5,	87.5,	51,	0.3397	,09:34:42	,18-Dec-2013
60,	0.2,	87.8,	50,	0.3386	,09:35:42	,18-Dec-2013
61,	0.0,	88.1,	50,	0.3376	,09:36:42	,18-Dec-2013
62,	0.0,	88.5,	50,	0.3377	,09:37:42	,18-Dec-2013
63,	0.0,	88.8,	49,	0.3377	,09:38:42	,18-Dec-2013
64,	0.3,	89.0,	49,	0.3388	,09:39:42	,18-Dec-2013
65,	0.3,	89.3,	48,	0.3387	,09:40:42	,18-Dec-2013
66,	0.1,	89.6,	48,	0.3379	,09:41:42	,18-Dec-2013
67,	0.1,	89.7,	48,	0.3381	,09:42:42	,18-Dec-2013
68,	0.1,	89.9,	47,	0.3380	,09:43:42	,18-Dec-2013
69,	0.1,	90.0,	47,	0.3379	,09:44:42	,18-Dec-2013
70,	0.1,	90.1,	46,	0.3380	,09:45:42	,18-Dec-2013
71,	0.0,	90.3,	46,	0.3376	,09:46:42	,18-Dec-2013
72,	0.1,	90.4,	46,	0.3377	,09:47:42	,18-Dec-2013
73,	0.0,	90.5,	45,	0.3376	,09:48:42	,18-Dec-2013
74,	0.1,	90.6,	45,	0.3378	,09:49:42	,18-Dec-2013
75,	0.3,	90.7,	45,	0.3388	,09:50:42	,18-Dec-2013
76,	0.1,	90.9,	45,	0.3381	,09:51:42	,18-Dec-2013
77,	0.3,	91.2,	45,	0.3390	,09:52:42	,18-Dec-2013
78,	0.2,	91.4,	45,	0.3384	,09:53:42	,18-Dec-2013
79,	0.0,	91.7,	44,	0.3377	,09:54:42	,18-Dec-2013
80,	0.0,	92.0,	44,	0.3376	,09:55:42	,18-Dec-2013
81,	0.2,	92.3,	44,	0.3384	,09:56:42	,18-Dec-2013
82,	0.4,	92.6,	43,	0.3391	,09:57:42	,18-Dec-2013
83,	0.1,	92.8,	43,	0.3378	,09:58:42	,18-Dec-2013
84,	0.2,	93.2,	42,	0.3383	,09:59:42	,18-Dec-2013
85,	0.1,	93.4,	42,	0.3380	,10:00:42	,18-Dec-2013
86,	0.2,	93.7,	42,	0.3382	,10:01:42	,18-Dec-2013
87,	0.2,	94.0,	42,	0.3383	,10:02:42	,18-Dec-2013
88,	0.5,	94.2,	41,	0.3396	,10:03:42	,18-Dec-2013
89,	0.5,	94.5,	41,	0.3399	,10:04:42	,18-Dec-2013
90,	0.1,	94.7,	41,	0.3382	,10:05:42	,18-Dec-2013
91,	0.1,	95.0,	41,	0.3381	,10:06:42	,18-Dec-2013
92,	0.5,	95.2,	40,	0.3396	,10:07:42	,18-Dec-2013
93,	0.2,	95.3,	40,	0.3385	,10:08:42	,18-Dec-2013
94,	0.5,	95.5,	40,	0.3397	,10:09:42	,18-Dec-2013
95,	0.3,	95.8,	40,	0.3389	,10:10:42	,18-Dec-2013
96,	0.1,	96.0,	40,	0.3378	,10:11:42	,18-Dec-2013
97,	0.2,	96.2,	40,	0.3386	,10:12:42	,18-Dec-2013
98,	0.3,	96.5,	40,	0.3388	,10:13:42	,18-Dec-2013
99,	0.4,	96.8,	39,	0.3393	,10:14:42	,18-Dec-2013
100,	0.4,	97.1,	39,	0.3390	,10:15:42	,18-Dec-2013
101,	1.0,	97.4,	39,	0.3420	,10:16:42	,18-Dec-2013
102,	0.8,	97.6,	38,	0.3412	,10:17:42	,18-Dec-2013
103,	0.6,	97.8,	38,	0.3404	,10:18:42	,18-Dec-2013

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104,	0.5,	97.9,	38,	0.3397	,10:19:42	,18-Dec-2013
105,	0.4,	97.9,	38,	0.3391	,10:20:42	,18-Dec-2013
106,	0.6,	98.0,	38,	0.3401	,10:21:42	,18-Dec-2013
107,	0.9,	98.1,	38,	0.3417	,10:22:42	,18-Dec-2013
108,	1.0,	98.1,	38,	0.3472	,10:23:42	,18-Dec-2013
109,	0.6,	98.2,	37,	0.3426	,10:24:42	,18-Dec-2013
110,	0.7,	98.3,	37,	0.3420	,10:25:42	,18-Dec-2013
111,	0.7,	98.3,	37,	0.3421	,10:26:42	,18-Dec-2013
112,	0.5,	98.4,	37,	0.3406	,10:27:42	,18-Dec-2013
113,	1.1,	98.5,	37,	0.4330	,10:28:42	,18-Dec-2013
114,	0.7,	98.5,	37,	0.4067	,10:29:42	,18-Dec-2013
115,	0.7,	98.6,	37,	0.3901	,10:30:42	,18-Dec-2013
116,	0.9,	98.6,	37,	0.4144	,10:31:42	,18-Dec-2013
117,	0.7,	98.7,	37,	0.3890	,10:32:42	,18-Dec-2013
118,	0.5,	98.8,	37,	0.3603	,10:33:42	,18-Dec-2013
119,	0.7,	98.8,	37,	0.3682	,10:34:42	,18-Dec-2013
120,	0.6,	98.8,	37,	0.3674	,10:35:42	,18-Dec-2013
121,	0.2,	98.8,	37,	0.3475	,10:36:42	,18-Dec-2013
122,	1.2,	98.9,	37,	0.4123	,10:37:42	,18-Dec-2013
123,	1.4,	98.9,	37,	0.3909	,10:38:42	,18-Dec-2013
124,	0.8,	99.0,	37,	0.3509	,10:39:42	,18-Dec-2013
125,	1.0,	99.1,	37,	0.3555	,10:40:42	,18-Dec-2013
126,	0.9,	99.2,	37,	0.3500	,10:41:42	,18-Dec-2013
127,	0.6,	99.4,	37,	0.3456	,10:42:42	,18-Dec-2013
128,	0.9,	99.5,	37,	0.3408	,10:43:42	,18-Dec-2013
129,	0.8,	99.6,	36,	0.3453	,10:44:42	,18-Dec-2013
130,	0.3,	99.7,	36,	0.3409	,10:45:42	,18-Dec-2013
131,	0.7,	99.8,	36,	0.3447	,10:46:42	,18-Dec-2013
132,	0.9,	99.9,	36,	0.3479	,10:47:42	,18-Dec-2013
133,	1.1,	100.0,	36,	0.3498	,10:48:42	,18-Dec-2013
134,	1.0,	100.1,	36,	0.3505	,10:49:42	,18-Dec-2013
135,	0.9,	100.3,	36,	0.3454	,10:50:42	,18-Dec-2013
136,	0.7,	100.2,	36,	0.3433	,10:51:42	,18-Dec-2013
137,	0.7,	100.3,	36,	0.3441	,10:52:42	,18-Dec-2013
138,	0.8,	100.2,	36,	0.3448	,10:53:42	,18-Dec-2013
139,	0.5,	100.2,	36,	0.3420	,10:54:42	,18-Dec-2013
140,	1.0,	100.2,	36,	0.3524	,10:55:42	,18-Dec-2013
141,	0.8,	100.2,	36,	0.3512	,10:56:42	,18-Dec-2013
142,	0.3,	100.2,	35,	0.3430	,10:57:42	,18-Dec-2013
143,	0.8,	100.2,	36,	0.3526	,10:58:42	,18-Dec-2013
144,	0.4,	100.2,	36,	0.3441	,10:59:42	,18-Dec-2013
145,	0.5,	100.2,	36,	0.3464	,11:00:42	,18-Dec-2013
146,	0.8,	100.1,	36,	0.3550	,11:01:42	,18-Dec-2013
147,	0.5,	100.1,	35,	0.3490	,11:02:42	,18-Dec-2013
148,	0.6,	99.9,	35,	0.3501	,11:03:42	,18-Dec-2013
149,	0.8,	99.8,	35,	0.3557	,11:04:42	,18-Dec-2013
150,	0.5,	99.7,	36,	0.3502	,11:05:42	,18-Dec-2013
151,	0.7,	99.5,	36,	0.3524	,11:06:42	,18-Dec-2013
152,	0.1,	99.2,	36,	0.3403	,11:07:42	,18-Dec-2013
153,	0.6,	99.0,	36,	0.3519	,11:08:42	,18-Dec-2013
154,	0.7,	98.9,	36,	0.3528	,11:09:42	,18-Dec-2013
155,	0.8,	98.7,	37,	0.3573	,11:10:42	,18-Dec-2013
156,	0.8,	98.7,	37,	0.3577	,11:11:42	,18-Dec-2013
157,	0.6,	98.7,	37,	0.3514	,11:12:42	,18-Dec-2013
158,	0.8,	98.6,	37,	0.3554	,11:13:42	,18-Dec-2013
159,	1.1,	98.6,	37,	0.3628	,11:14:42	,18-Dec-2013
160,	0.8,	98.7,	38,	0.3575	,11:15:42	,18-Dec-2013
161,	1.1,	98.8,	37,	0.3673	,11:16:42	,18-Dec-2013
162,	0.8,	98.9,	38,	0.3605	,11:17:42	,18-Dec-2013
163,	0.8,	99.0,	38,	0.3549	,11:18:42	,18-Dec-2013
164,	0.9,	99.1,	37,	0.3499	,11:19:42	,18-Dec-2013
165,	1.4,	99.1,	38,	0.3926	,11:20:42	,18-Dec-2013
166,	1.2,	99.4,	37,	0.3581	,11:21:42	,18-Dec-2013
167,	1.0,	99.5,	37,	0.3537	,11:22:42	,18-Dec-2013

168,	0.9,	99.6,	37,	0.3489	,11:23:42	,18-Dec-2013
169,	0.9,	99.8,	37,	0.3472	,11:24:42	,18-Dec-2013
170,	1.0,	99.9,	37,	0.3483	,11:25:42	,18-Dec-2013
171,	0.7,	100.1,	37,	0.3444	,11:26:42	,18-Dec-2013
172,	0.8,	100.4,	37,	0.3463	,11:27:42	,18-Dec-2013
173,	0.7,	100.5,	37,	0.3444	,11:28:42	,18-Dec-2013
174,	0.4,	100.6,	37,	0.3411	,11:29:42	,18-Dec-2013
175,	0.9,	100.7,	36,	0.3464	,11:30:42	,18-Dec-2013
176,	0.4,	100.6,	36,	0.3424	,11:31:42	,18-Dec-2013
177,	0.5,	100.6,	36,	0.3428	,11:32:42	,18-Dec-2013
178,	0.8,	100.4,	36,	0.3456	,11:33:42	,18-Dec-2013
179,	1.0,	100.3,	36,	0.3476	,11:34:42	,18-Dec-2013
180,	0.9,	100.0,	36,	0.3471	,11:35:42	,18-Dec-2013
181,	0.6,	99.9,	36,	0.3442	,11:36:42	,18-Dec-2013
182,	0.9,	99.7,	36,	0.3469	,11:37:42	,18-Dec-2013
183,	0.9,	99.5,	36,	0.3472	,11:38:42	,18-Dec-2013
184,	0.4,	99.2,	37,	0.3418	,11:39:42	,18-Dec-2013
185,	0.7,	99.0,	37,	0.3455	,11:40:42	,18-Dec-2013
186,	0.9,	98.8,	37,	0.3470	,11:41:42	,18-Dec-2013
187,	0.9,	98.7,	37,	0.3469	,11:42:42	,18-Dec-2013
188,	1.2,	98.5,	37,	0.3511	,11:43:42	,18-Dec-2013
189,	1.3,	98.3,	38,	0.3519	,11:44:42	,18-Dec-2013
190,	1.3,	98.1,	38,	0.3475	,11:45:42	,18-Dec-2013
191,	0.3,	97.8,	38,	0.3387	,11:46:42	,18-Dec-2013
192,	1.0,	97.6,	38,	0.3414	,11:47:42	,18-Dec-2013
193,	1.0,	97.4,	38,	0.3415	,11:48:42	,18-Dec-2013
194,	0.9,	97.1,	39,	0.3472	,11:49:42	,18-Dec-2013
195,	1.1,	96.9,	39,	0.3516	,11:50:42	,18-Dec-2013
196,	1.2,	96.6,	39,	0.3526	,11:51:42	,18-Dec-2013
197,	1.6,	96.3,	40,	0.3619	,11:52:42	,18-Dec-2013
198,	1.1,	96.1,	40,	0.3596	,11:53:42	,18-Dec-2013
199,	1.3,	95.9,	40,	0.3612	,11:54:42	,18-Dec-2013
200,	1.2,	95.7,	41,	0.3616	,11:55:42	,18-Dec-2013
201,	1.2,	95.5,	41,	0.3605	,11:56:42	,18-Dec-2013
202,	1.3,	95.3,	41,	0.3637	,11:57:42	,18-Dec-2013
203,	1.4,	95.1,	41,	0.3648	,11:58:42	,18-Dec-2013
204,	1.8,	95.0,	42,	0.3740	,11:59:42	,18-Dec-2013
205,	1.6,	94.8,	42,	0.3763	,12:00:42	,18-Dec-2013
206,	1.7,	94.7,	42,	0.3735	,12:01:42	,18-Dec-2013
207,	1.5,	94.7,	43,	0.3616	,12:02:42	,18-Dec-2013
208,	5.0,	94.6,	43,	0.5756	,12:03:42	,18-Dec-2013
209,	8.4,	94.7,	44,	1.8957	,12:04:42	,18-Dec-2013
210,	26.3,	94.9,	44,	2.9578	,12:05:42	,18-Dec-2013
211,	9.3,	95.0,	44,	1.8396	,12:06:42	,18-Dec-2013
212,	2.1,	95.0,	44,	0.6647	,12:07:42	,18-Dec-2013
213,	1.6,	95.1,	44,	0.5639	,12:08:42	,18-Dec-2013
214,	1.9,	95.2,	44,	0.5071	,12:09:42	,18-Dec-2013
215,	5.9,	95.3,	43,	1.3114	,12:10:42	,18-Dec-2013
216,	4.3,	95.3,	43,	1.1245	,12:11:42	,18-Dec-2013
217,	2.4,	95.5,	43,	0.6760	,12:12:42	,18-Dec-2013
218,	7.1,	95.5,	43,	1.4065	,12:13:42	,18-Dec-2013
219,	2.3,	95.6,	43,	0.5573	,12:14:42	,18-Dec-2013
220,	1.7,	95.7,	43,	0.4736	,12:15:42	,18-Dec-2013
221,	1.4,	95.7,	43,	0.4096	,12:16:42	,18-Dec-2013
222,	1.7,	95.7,	43,	0.4185	,12:17:42	,18-Dec-2013
223,	0.8,	95.7,	42,	0.3710	,12:18:42	,18-Dec-2013
224,	1.7,	95.5,	42,	0.4184	,12:19:42	,18-Dec-2013
225,	1.6,	95.5,	42,	0.4245	,12:20:42	,18-Dec-2013
226,	1.2,	95.4,	42,	0.4093	,12:21:42	,18-Dec-2013
227,	1.8,	95.2,	42,	0.4573	,12:22:42	,18-Dec-2013
228,	1.5,	95.1,	42,	0.4396	,12:23:42	,18-Dec-2013
229,	1.5,	95.0,	42,	0.4286	,12:24:42	,18-Dec-2013
230,	1.3,	94.9,	43,	0.4050	,12:25:42	,18-Dec-2013
231,	1.6,	94.7,	43,	0.3874	,12:26:42	,18-Dec-2013

232,	1.8,	94.6,	43,	0.3558	,12:27:42	,18-Dec-2013
233,	1.3,	94.4,	43,	0.3445	,12:28:42	,18-Dec-2013
234,	1.7,	94.3,	43,	0.3467	,12:29:42	,18-Dec-2013
235,	1.4,	94.2,	43,	0.3449	,12:30:42	,18-Dec-2013
236,	1.8,	94.1,	43,	0.3473	,12:31:42	,18-Dec-2013
237,	1.5,	94.1,	44,	0.3510	,12:32:42	,18-Dec-2013
238,	1.5,	94.0,	44,	0.3664	,12:33:42	,18-Dec-2013
239,	1.6,	94.0,	44,	0.3822	,12:34:42	,18-Dec-2013
240,	1.6,	93.9,	44,	0.3849	,12:35:42	,18-Dec-2013
241,	1.6,	93.9,	43,	0.4199	,12:36:42	,18-Dec-2013
242,	1.3,	93.8,	43,	0.4164	,12:37:42	,18-Dec-2013
243,	1.3,	93.8,	44,	0.4128	,12:38:42	,18-Dec-2013
244,	1.7,	93.8,	44,	0.4330	,12:39:42	,18-Dec-2013
245,	1.9,	93.9,	44,	0.5051	,12:40:42	,18-Dec-2013
246,	1.4,	93.9,	44,	0.4367	,12:41:42	,18-Dec-2013
247,	1.9,	94.0,	43,	0.4759	,12:42:42	,18-Dec-2013
248,	14.5,	94.1,	43,	2.6031	,12:43:42	,18-Dec-2013
249,	2.0,	94.1,	43,	0.5780	,12:44:42	,18-Dec-2013
250,	1.6,	94.0,	43,	0.4438	,12:45:42	,18-Dec-2013
251,	1.5,	94.0,	44,	0.4197	,12:46:42	,18-Dec-2013
252,	1.6,	93.9,	44,	0.4288	,12:47:42	,18-Dec-2013
253,	2.5,	93.9,	44,	0.5812	,12:48:42	,18-Dec-2013
254,	23.1,	94.0,	44,	3.1808	,12:49:42	,18-Dec-2013
255,	4.6,	94.1,	45,	1.2719	,12:50:42	,18-Dec-2013
256,	1.9,	94.1,	45,	0.6581	,12:51:42	,18-Dec-2013
257,	7.5,	94.2,	45,	1.6156	,12:52:42	,18-Dec-2013
258,	6.4,	94.3,	45,	1.2070	,12:53:42	,18-Dec-2013
259,	27.5,	94.4,	45,	2.3151	,12:54:42	,18-Dec-2013
260,	27.3,	94.5,	45,	3.6240	,12:55:42	,18-Dec-2013
261,	9.7,	94.7,	45,	2.2413	,12:56:42	,18-Dec-2013
262,	40.7,	94.8,	45,	4.0390	,12:57:42	,18-Dec-2013
263,	8.8,	95.0,	45,	1.8923	,12:58:42	,18-Dec-2013
264,	3.3,	95.1,	44,	0.7959	,12:59:42	,18-Dec-2013
265,	7.8,	95.2,	44,	1.2752	,13:00:42	,18-Dec-2013
266,	1.7,	95.3,	44,	0.5758	,13:01:42	,18-Dec-2013
267,	6.7,	95.4,	44,	0.8843	,13:02:42	,18-Dec-2013
268,	29.8,	95.4,	44,	3.1499	,13:03:42	,18-Dec-2013
269,	3.5,	95.5,	44,	0.9326	,13:04:42	,18-Dec-2013
270,	7.4,	95.7,	44,	1.1421	,13:05:42	,18-Dec-2013
271,	80.9,	95.8,	44,	3.9810	,13:06:42	,18-Dec-2013
272,	53.8,	95.9,	44,	4.1270	,13:07:42	,18-Dec-2013
273,	11.6,	96.0,	44,	2.4267	,13:08:42	,18-Dec-2013
274,	35.0,	96.1,	44,	3.6464	,13:09:42	,18-Dec-2013
275,	45.5,	96.2,	44,	4.1018	,13:10:42	,18-Dec-2013
276,	157.1,	96.3,	44,	4.1270	,13:11:42	,18-Dec-2013
277,	4.0,	96.4,	43,	1.1600	,13:12:42	,18-Dec-2013
278,	2.7,	96.4,	44,	0.7694	,13:13:42	,18-Dec-2013
279,	10.4,	96.5,	43,	1.5751	,13:14:42	,18-Dec-2013
280,	16.2,	96.6,	43,	2.6688	,13:15:42	,18-Dec-2013
281,	3.7,	96.8,	43,	1.1787	,13:16:42	,18-Dec-2013
282,	4.6,	96.8,	43,	0.8611	,13:17:42	,18-Dec-2013
283,	3.3,	96.8,	43,	0.7272	,13:18:42	,18-Dec-2013
284,	2.9,	96.9,	43,	0.6116	,13:19:42	,18-Dec-2013
285,	22.8,	96.9,	42,	3.0961	,13:20:42	,18-Dec-2013
286,	15.7,	96.9,	42,	2.8101	,13:21:42	,18-Dec-2013
287,	13.5,	97.0,	42,	2.4034	,13:22:42	,18-Dec-2013
288,	19.9,	97.0,	42,	3.3068	,13:23:42	,18-Dec-2013
289,	3.5,	97.0,	42,	1.1144	,13:24:42	,18-Dec-2013
290,	1.7,	97.0,	42,	0.5399	,13:25:42	,18-Dec-2013
291,	1.9,	97.1,	42,	0.4485	,13:26:42	,18-Dec-2013
292,	23.5,	97.2,	42,	3.0859	,13:27:42	,18-Dec-2013
293,	64.8,	97.2,	42,	3.6161	,13:28:42	,18-Dec-2013
294,	5.4,	97.2,	41,	1.4023	,13:29:42	,18-Dec-2013
295,	26.8,	97.2,	41,	1.9449	,13:30:42	,18-Dec-2013

296,	21.6,	97.2,	41,	2.4484	,13:31:42	,18-Dec-2013
297,	5.7,	97.2,	41,	1.3257	,13:32:42	,18-Dec-2013
298,	9.3,	97.3,	41,	2.1981	,13:33:42	,18-Dec-2013
299,	2.5,	97.2,	41,	0.8786	,13:34:42	,18-Dec-2013
300,	1.4,	97.2,	41,	0.5233	,13:35:42	,18-Dec-2013
301,	1.6,	97.1,	41,	0.5568	,13:36:42	,18-Dec-2013
302,	2.1,	97.1,	42,	0.5526	,13:37:42	,18-Dec-2013
303,	9.7,	97.0,	42,	1.9091	,13:38:42	,18-Dec-2013
304,	3.0,	97.0,	42,	0.7694	,13:39:42	,18-Dec-2013
305,	2.1,	97.0,	42,	0.5537	,13:40:42	,18-Dec-2013
306,	5.4,	97.0,	42,	1.1059	,13:41:42	,18-Dec-2013
307,	3.5,	96.9,	42,	0.9640	,13:42:42	,18-Dec-2013
308,	2.0,	96.9,	43,	0.6709	,13:43:42	,18-Dec-2013
309,	2.2,	96.9,	43,	0.6091	,13:44:42	,18-Dec-2013
310,	1.7,	96.8,	42,	0.5332	,13:45:42	,18-Dec-2013
311,	1.6,	96.8,	42,	0.5151	,13:46:42	,18-Dec-2013
312,	2.3,	96.8,	42,	0.7375	,13:47:42	,18-Dec-2013
313,	1.4,	96.8,	42,	0.6060	,13:48:42	,18-Dec-2013
314,	2.1,	96.8,	42,	0.7119	,13:49:42	,18-Dec-2013
315,	2.4,	96.8,	41,	0.5443	,13:50:42	,18-Dec-2013
316,	1.6,	96.8,	41,	0.3722	,13:51:42	,18-Dec-2013
317,	1.3,	96.7,	41,	0.3681	,13:52:42	,18-Dec-2013
318,	1.1,	96.7,	41,	0.3639	,13:53:42	,18-Dec-2013
319,	1.9,	96.7,	41,	0.3904	,13:54:42	,18-Dec-2013
320,	1.8,	96.7,	41,	0.5636	,13:55:42	,18-Dec-2013
321,	2.4,	96.7,	42,	0.5265	,13:56:42	,18-Dec-2013
322,	1.8,	96.7,	42,	0.4633	,13:57:42	,18-Dec-2013
323,	1.6,	96.7,	42,	0.4192	,13:58:42	,18-Dec-2013
324,	2.5,	96.7,	42,	0.5400	,13:59:42	,18-Dec-2013
325,	4.7,	96.7,	42,	1.0472	,14:00:42	,18-Dec-2013
326,	2.3,	96.7,	42,	0.6029	,14:01:42	,18-Dec-2013
327,	27.9,	96.7,	42,	2.4461	,14:02:42	,18-Dec-2013
328,	40.8,	96.6,	42,	3.4304	,14:03:42	,18-Dec-2013
329,	1.8,	96.6,	42,	0.4979	,14:04:42	,18-Dec-2013
330,	1.5,	96.5,	42,	0.4170	,14:05:42	,18-Dec-2013
331,	1.4,	96.4,	42,	0.4019	,14:06:42	,18-Dec-2013
332,	1.6,	96.4,	42,	0.4272	,14:07:42	,18-Dec-2013
333,	1.5,	96.3,	42,	0.4359	,14:08:42	,18-Dec-2013
334,	1.6,	96.3,	42,	0.4254	,14:09:42	,18-Dec-2013
335,	1.6,	96.2,	42,	0.4003	,14:10:42	,18-Dec-2013
336,	1.7,	96.1,	43,	0.4509	,14:11:42	,18-Dec-2013
337,	3.6,	96.1,	43,	0.6170	,14:12:42	,18-Dec-2013
338,	5.3,	96.1,	43,	1.4726	,14:13:42	,18-Dec-2013
339,	26.3,	96.1,	43,	2.8406	,14:14:42	,18-Dec-2013
340,	6.3,	96.1,	43,	1.4455	,14:15:42	,18-Dec-2013
341,	15.7,	96.1,	43,	2.4643	,14:16:42	,18-Dec-2013
342,	37.6,	96.0,	43,	4.0387	,14:17:42	,18-Dec-2013
343,	5.7,	96.0,	43,	1.7525	,14:18:42	,18-Dec-2013
344,	2.7,	95.9,	43,	0.7228	,14:19:42	,18-Dec-2013

CONFIDENTIAL - SUBJECT TO PROTECTIVE ORDER

DataRAM 4 SN# D788 Dev# 2 Tag# 59 start 18 Dec 2013 06:35:42 interval 00:01:00
(MASS)ug/m3
Temp (F)
Humidity (RH%)
Diameter (nm)
100
95
90
85
80
75
70
65
60
55
50
45
40
35
30
25
20
15
10
5
0
12/18/13 09:00:00
12/18/13 09:30:00
12/18/13 10:00:00
12/18/13 10:30:00
12/18/13 11:00:00
12/18/13 11:30:00
12/18/13 12:00:00
12/18/13 12:30:00
12/18/13 13:00:00
12/18/13 13:30:00
12/18/13 14:00:00

DataRAM 4 SN#D788 Dev# 2 Tag# 59 start 18-Dec-2013 08:35:42 interval 00:01:00
(MASS) ug/m3
Temp (F)
Humidity (RH%)
Diameter (nm)
0
5
10
15
20
25
30
35
40
45
50
55
60
12/18/13 09:00:00
12/18/13 09:30:00
12/18/13 10:00:00
12/18/13 10:30:00
12/18/13 11:00:00
12/18/13 11:30:00
12/18/13 12:00:00
12/18/13 12:30:00
12/18/13 13:00:00
12/18/13 13:30:00
12/18/13 14:00:00

DataRAM 4 SN# D788 Dev# 0 Tag# T6 start 18-Dec-2013 08:07:28 interval: 00:01:00
MASS µg/m3
Temp (F)
Humidity (RH%)
Diameter (nm)
2,600
2,400
2,200
2,000
1,800
1,600
1,400
1,200
1,000
800
600
400
200
0
12/18/13 09:00:00
12/18/13 10:00:00
12/18/13 11:00:00
12/18/13 12:00:00
12/18/13 13:00:00
12/18/13 14:00:00
12/18/13 15:00:00
12/18/13 16:00:00

ALTOL
Environmental Services, Inc.

P.O Box 359 Mercedita, PR 00715-0359

December 13, 2013

Mr. Benjamin Cintrón
Project Manager
Homeca Recycling

RE: AIR PARTICULATE MONITORING REPORT AT PUERTO RICO OLEFINES, PEÑUELAS, PR.

Dear Mr. Cintrón:

Altol Environmental Services, Inc., submits for your review the results obtained during the air particulates monitoring. These were performed following Altol operational procedures.

Altol's technician installed and removed the Data Ram-4 COM equipment from the Towers located at Puerto Rico Olefines in Peñuelas, PR. The equipment collected data every minute for approximately a eight (8) hour period. Also, during the installation and removal of the equipment the wind direction, wind velocity, weather and other conditions were documented as supplementary information. The wind velocity was measured using the Kestrell 4000 equipment.

Appendix 1 presents **Table 1** which summarizes the results of information collected at the towers. The data collected during this period indicated levels of particulate material (PM_{10}) that do not exceed the regulated limits of the United States Environmental Protection Agency (USEPA) of 150 $\mu g/m^3$ (40 CFR part 50) (**Appendix 2**). The information collected from each tower is presented in graphics in terms of mass and dates (**Appendix 3**).

The following Appendices present the tables and graphics results for mass ($\mu g/m^3$), temperature (^oF), relative humidity (RH) and diameter (nm), obtained from each Data Ram-4 COM equipment:

- **Appendix** 4, correspond to Tower # 1, December 10, 2013.
- **Appendix 5**, correspond to Tower # 2, December 10, 2013.

If you need any further information contact us at your earliest convenience at (787)-835-4242 or (787) 430-6141.

Statement of Authenticity,
Altol Environmental Services, Inc.

Certify that the results are complete and accurate

Cordially,

Carlos E. Ocasio Feliciano
Environmental Higiene

APPENDIX 1
FUGITIVE DUSTS SAMPLING AND TEST RESULTS

CONFIDENTIAL & PRIVILEGE

TABLE 1. FUGITIVE DUSTS SAMPLING AND ENVIRONMENTAL CONDITIONS

Air Monitoring Date	Air Monitoring Tower	Latitude and Longitude	Equipment Data Ram-4 COM						Equipment Kestrell Model 4000		Field Observation				Sampling Personnel
			Equipment Model/ID#	Start Time	Finish Time	Avg Mass ($\mu g/m^3$)	Regulatory Limits ($\mu g/m3$)	Avg Diameter (nm)	Wind Velocity Start Time (mph)	Wind Velocity Finish Time (mph)	Weather Condition Start Time	Weather Condition Finish Time	Wind Direction Start Time	Wind Direction Finish Time	
12/10/2013 12/10/2013	1		DR4/D787	8:24	14:49	2.47	150	0.47	6.1	7.3	Sunny	Sunny	North	North	JS
12/10/2013 12/10/2013	2		DR4/D788	9:10	15:24	16.83	150	1.08	6.9	8.1	Sunny	Sunny	North	North	JS

Standard Limit = 150 $\mu g/m^3$

Leyend

N/A -	Not Aplicable
RV -	Robert Velazquez
JRR-	Jaime Rivera Rivera
JR-	Juan Rivera
JC-	Jose Cruz
NH	Nehemias Hernandez
JS-	José Santos

Towers Location:

Tower #1: PR-503
Tower #2: Disposal Area 3A
Tower #3: Access Road #1
Tower #4: Laboratory Area

ALTOL
Environmental Services, Inc.

Statement of Authenticity,
Certify that the results are complete and accurate

Cordially,

Carlos E. Ocasio Feliciano
Environmental Higiene

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APPENDIX 2
USEPA REGULATION PARAMETER

National Ambient Air Quality Standards (NAAQS)

The Clean Air Act, which was last amended in 1990, requires EPA to set National Ambient Air Quality Standards (40 CFR part 50) for pollutants considered harmful to public health and the environment. The Clean Air Act established two types of national air quality standards. *Primary standards* set limits to protect public health, including the health of "sensitive" populations such as asthmatics, children, and the elderly. *Secondary standards* set limits to protect public welfare, including protection against decreased visibility, damage to animals, crops, vegetation, and buildings.

The EPA Office of Air Quality Planning and Standards (OAQPS) has set National Ambient Air Quality Standards for six principal pollutants, which are called "criteria" pollutants. They are listed below. Units of measure for the standards are parts per million (ppm) by volume, milligrams per cubic meter of air (mg/m^3), and micrograms per cubic meter of air ($\mu g/m^3$).

National Ambient Air Quality Standards

	Primary Standards		Secondary Standards	
Pollutant	Level	Averaging Time	Level	Averaging Time
Carbon Monoxide	9 ppm (10 mg/m^3)	8-hour [1]	None	
	35 ppm (40 mg/m^3)	1-hour [1]		
Lead	0.15 $\mu g/m^3$ [2]	Rolling 3-Month Average	Same as Primary	
	1.5 $\mu g/m^3$	Quarterly Average	Same as Primary	
Nitrogen Dioxide	0.053 ppm (100 $\mu g/m^3$)	Annual (Arithmetic Mean)	Same as Primary	
Particulate Matter (PM_{10})	150 $\mu g/m^3$	24-hour [3]	Same as Primary	
Particulate Matter ($PM_{2.5}$)	15.0 $\mu g/m^3$	Annual [4] (Arithmetic Mean)	Same as Primary	
	35 $\mu g/m^3$	24-hour [5]	Same as Primary	
Ozone	0.075 ppm (2008 std)	8-hour [6]	Same as Primary	
	0.08 ppm (1997 std)	8-hour [7]	Same as Primary	
	0.12 ppm	1-hour [8] (Applies only in limited areas)	Same as Primary	
Sulfur Dioxide	0.03 ppm	Annual (Arithmetic Mean)	0.5 ppm (1300 $\mu g/m^3$)	3-hour [1]
	0.14 ppm	24-hour [1]		

[1] Not to be exceeded more than once per year.

[2] Final rule signed October 15, 2008.

[3] Not to be exceeded more than once per year on average over 3 years.

[4] To attain this standard, the 3-year average of the weighted annual mean PM2.5 concentrations from single or multiple community-oriented monitors must not exceed 15.0 $\mu g/m3$.

[5] To attain this standard, the 3-year average of the 98th percentile of 24-hour concentrations at each population-oriented monitor within an area must not exceed 35 $\mu g/m3$ (effective December 17, 2006).

[6] To attain this standard, the 3-year average of the fourth-highest daily maximum 8-hour average ozone concentrations measured at each monitor within an area over each year must not exceed 0.075 ppm. (effective May 27, 2008)

[7] (a) To attain this standard, the 3-year average of the fourth-highest daily maximum 8-hour average ozone concentrations measured at each monitor within an area over each year must not exceed 0.08 ppm.

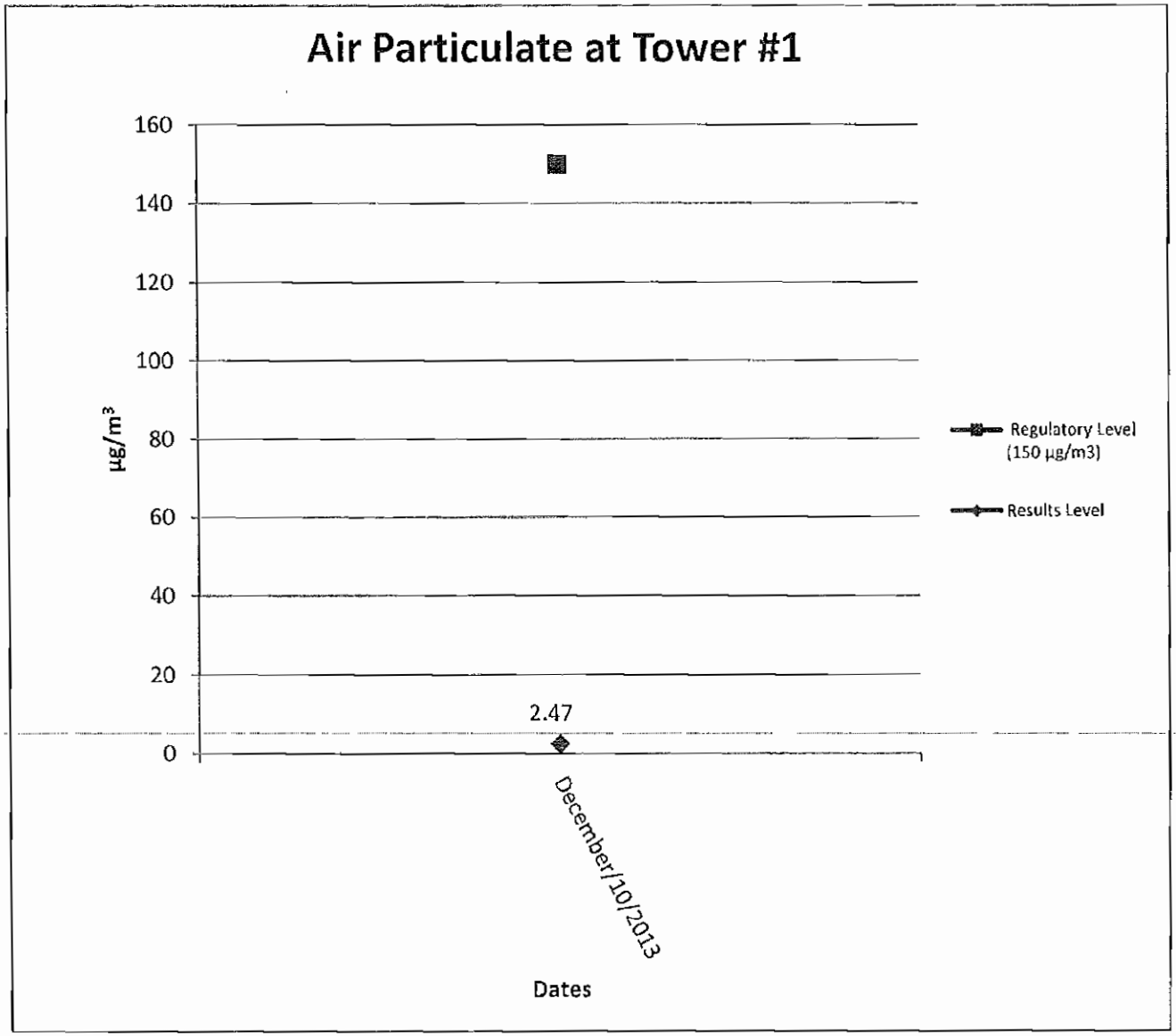
(b) The 1997 standard—and the implementation rules for that standard—will remain in place for implementation purposes as EPA undertakes rulemaking to address the transition from the 1997 ozone standard to the 2008 ozone standard.

[8] (a) The standard is attained when the expected number of days per calendar year with maximum hourly average concentrations above 0.12 ppm is ≤ 1.

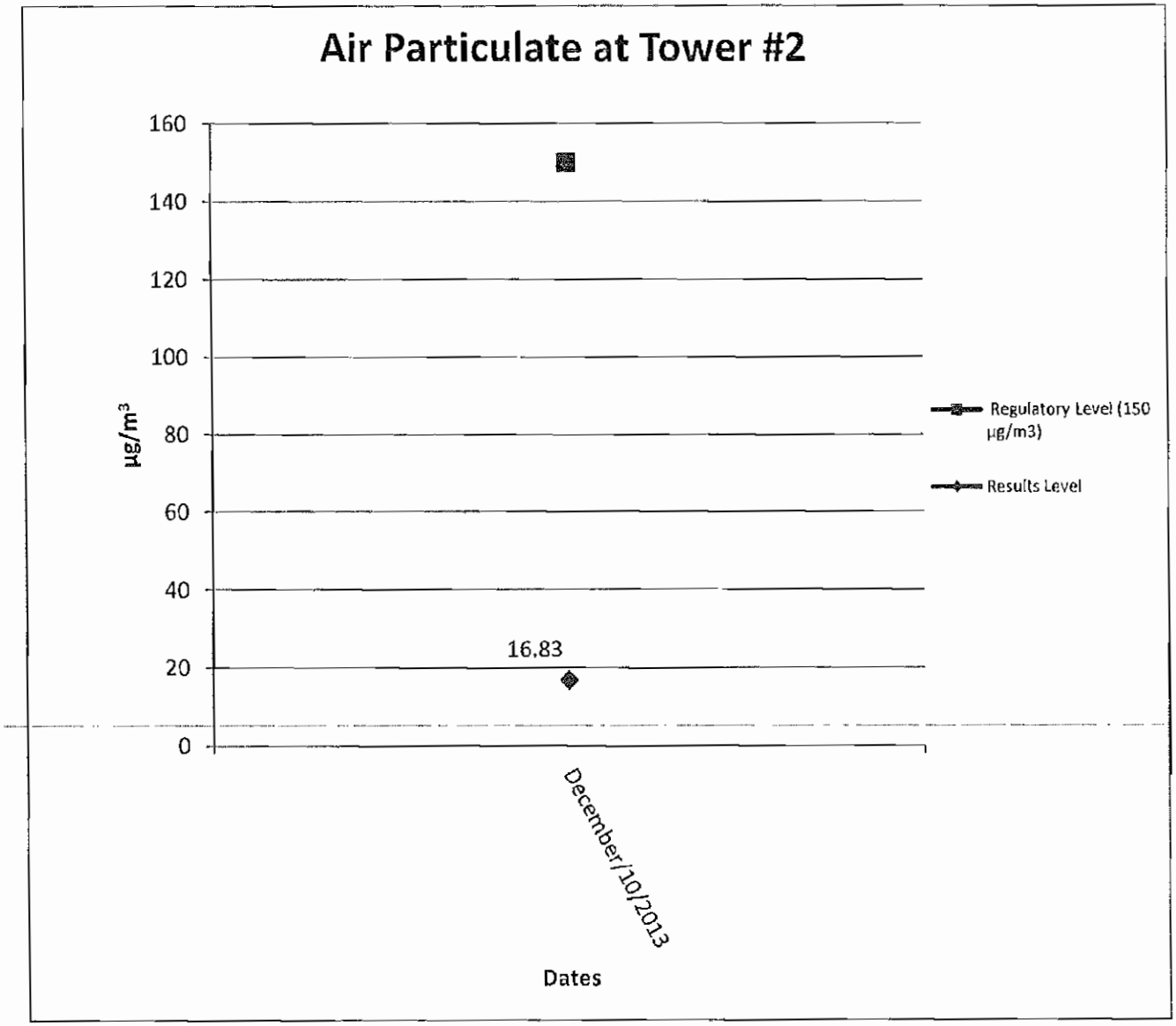
(b) As of June 15, 2005 EPA revoked the 1-hour ozone standard in all areas except the 8-hour ozone nonattainment Early Action Compact (EAC) Areas.

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APPENDIX 3
GRAPHICS OF MASS vs DATE



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APPENDIX 4

TOWER #1 AIR PARTICULATE MONITORING

"Model Number", "DataRAM 4 ", 106
Serial no. ", "D787 "
"Device no. ", 1 Norte, PR OLEFINS
"Tag Number ", 63
Start Time ", 08:23:27
Start Date ", 10-Dec-2013
"Log Period ", 00:01:00
Number ", 386
CalFactor ", 1.000000
"Unit ", 0
"Unit Name ", "(MASS)ug/m3"
SIZE_CORRECT", "ENABLED"
"TEMPUNITS ", F
"Max MASS ", 7.308914
Max MASS @ ", ,17:59:27 ,10-Dec-2013
Avg MASS ", 2.468323
"Max Diam ", 0.932916
"Max Diam @ ", ,08:22:27 ,10-Dec-2013
Avg Diam ", 0.472087
"ALARM ", "DISABLED"
"ALARM_LEVEL ", 0.0
AUTO_ZERO ", "DISABLED"
AZ INTERVAL ", 1
"Errors ", 0000
"ecord,"(MASS)ug/m3", Temp, RHumidity, Diameter

1,	7.3,	86.1,	43,	0.93	,08:24:27 ,10-Dec-2013
2,	3.3,	86.3,	45,	0.77	,08:25:27 ,10-Dec-2013
3,	3.0,	86.6,	47,	0.59	,08:26:27 ,10-Dec-2013
4,	2.9,	86.9,	48,	0.57	,08:27:27 ,10-Dec-2013
5,	3.4,	87.1,	48,	0.71	,08:28:27 ,10-Dec-2013
6,	3.0,	87.3,	49,	0.57	,08:29:27 ,10-Dec-2013
7,	3.0,	87.5,	49,	0.54	,08:30:27 ,10-Dec-2013
8,	2.7,	87.8,	49,	0.54	,08:31:27 ,10-Dec-2013
9,	3.0,	87.9,	49,	0.51	,08:32:27 ,10-Dec-2013
10,	2.7,	88.1,	49,	0.49	,08:33:27 ,10-Dec-2013
11,	2.8,	88.2,	49,	0.57	,08:34:27 ,10-Dec-2013
12,	6.3,	88.4,	49,	0.50	,08:35:27 ,10-Dec-2013
13,	2.5,	88.7,	49,	0.56	,08:36:27 ,10-Dec-2013
14,	2.6,	88.9,	49,	0.44	,08:37:27 ,10-Dec-2013
15,	2.3,	89.1,	48,	0.49	,08:38:27 ,10-Dec-2013
16,	2.3,	89.3,	48,	0.47	,08:39:27 ,10-Dec-2013
17,	2.3,	89.5,	48,	0.51	,08:40:27 ,10-Dec-2013
18,	2.2,	89.7,	48,	0.50	,08:41:27 ,10-Dec-2013
19,	2.3,	89.8,	48,	0.51	,08:42:27 ,10-Dec-2013
20,	2.3,	90.0,	48,	0.47	,08:43:27 ,10-Dec-2013
21,	2.8,	90.2,	47,	0.43	,08:44:27 ,10-Dec-2013
22,	2.1,	90.4,	47,	0.38	,08:45:27 ,10-Dec-2013
23,	2.2,	90.6,	47,	0.39	,08:46:27 ,10-Dec-2013
24,	2.4,	90.7,	47,	0.41	,08:47:27 ,10-Dec-2013
25,	2.4,	90.8,	46,	0.45	,08:48:27 ,10-Dec-2013
26,	2.5,	91.0,	46,	0.47	,08:49:27 ,10-Dec-2013
27,	2.1,	91.1,	46,	0.46	,08:50:27 ,10-Dec-2013
28,	2.2,	91.3,	46,	0.43	,08:51:27 ,10-Dec-2013
29,	2.5,	91.5,	46,	0.43	,08:52:27 ,10-Dec-2013
30,	2.4,	91.7,	45,	0.45	,08:53:27 ,10-Dec-2013
31,	1.8,	91.8,	45,	0.41	,08:54:27 ,10-Dec-2013
32,	2.3,	92.0,	45,	0.37	,08:55:27 ,10-Dec-2013
33,	2.2,	92.2,	45,	0.42	,08:56:27 ,10-Dec-2013
34,	2.3,	92.3,	45,	0.43	,08:57:27 ,10-Dec-2013
35,	2.2,	92.4,	45,	0.42	,08:58:27 ,10-Dec-2013
36,	2.3,	92.6,	44,	0.40	,08:59:27 ,10-Dec-2013
37,	2.4,	92.7,	44,	0.43	,09:00:27 ,10-Dec-2013
38,	2.3,	92.8,	44,	0.42	,09:01:27 ,10-Dec-2013
39,	2.1,	93.0,	44,	0.40	,09:02:27 ,10-Dec-2013

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40,	2.2,	93.2,	44,	0.44	,09:03:27	,10-Dec-2013
41,	2.3,	93.4,	44,	0.42	,09:04:27	,10-Dec-2013
42,	2.3,	93.6,	44,	0.42	,09:05:27	,10-Dec-2013
43,	2.2,	93.7,	43,	0.40	,09:06:27	,10-Dec-2013
44,	2.4,	93.9,	43,	0.37	,09:07:27	,10-Dec-2013
45,	2.7,	94.0,	43,	0.40	,09:08:27	,10-Dec-2013
46,	2.2,	94.1,	43,	0.45	,09:09:27	,10-Dec-2013
47,	2.1,	94.1,	43,	0.44	,09:10:27	,10-Dec-2013
48,	2.3,	94.1,	42,	0.40	,09:11:27	,10-Dec-2013
49,	2.5,	94.1,	42,	0.44	,09:12:27	,10-Dec-2013
50,	2.4,	94.1,	42,	0.40	,09:13:27	,10-Dec-2013
51,	2.2,	94.1,	42,	0.45	,09:14:27	,10-Dec-2013
52,	2.1,	94.0,	42,	0.49	,09:15:27	,10-Dec-2013
53,	2.8,	93.8,	42,	0.61	,09:16:27	,10-Dec-2013
54,	2.2,	93.7,	42,	0.44	,09:17:27	,10-Dec-2013
55,	2.1,	93.6,	42,	0.45	,09:18:27	,10-Dec-2013
56,	2.3,	93.5,	42,	0.42	,09:19:27	,10-Dec-2013
57,	2.6,	93.3,	42,	0.48	,09:20:27	,10-Dec-2013
58,	2.1,	93.2,	42,	0.42	,09:21:27	,10-Dec-2013
59,	2.5,	93.0,	42,	0.46	,09:22:27	,10-Dec-2013
60,	2.1,	92.8,	42,	0.49	,09:23:27	,10-Dec-2013
61,	2.2,	92.7,	42,	0.44	,09:24:27	,10-Dec-2013
62,	2.6,	92.6,	42,	0.44	,09:25:27	,10-Dec-2013
63,	2.4,	92.5,	42,	0.44	,09:26:27	,10-Dec-2013
64,	2.6,	92.5,	43,	0.40	,09:27:27	,10-Dec-2013
65,	2.2,	92.4,	43,	0.38	,09:28:27	,10-Dec-2013
66,	2.4,	92.5,	43,	0.40	,09:29:27	,10-Dec-2013
67,	2.9,	92.5,	43,	0.41	,09:30:27	,10-Dec-2013
68,	2.2,	92.6,	43,	0.48	,09:31:27	,10-Dec-2013
69,	2.6,	92.6,	43,	0.54	,09:32:27	,10-Dec-2013
70,	2.5,	92.6,	43,	0.48	,09:33:27	,10-Dec-2013
71,	2.4,	92.5,	43,	0.47	,09:34:27	,10-Dec-2013
72,	2.4,	92.5,	43,	0.45	,09:35:27	,10-Dec-2013
73,	2.3,	92.4,	43,	0.50	,09:36:27	,10-Dec-2013
74,	2.1,	92.4,	43,	0.41	,09:37:27	,10-Dec-2013
75,	2.4,	92.3,	43,	0.40	,09:38:27	,10-Dec-2013
76,	2.7,	92.2,	43,	0.37	,09:39:27	,10-Dec-2013
77,	2.4,	92.2,	43,	0.42	,09:40:27	,10-Dec-2013
78,	2.3,	92.1,	43,	0.39	,09:41:27	,10-Dec-2013
79,	2.4,	92.2,	43,	0.41	,09:42:27	,10-Dec-2013
80,	2.5,	92.2,	43,	0.47	,09:43:27	,10-Dec-2013
81,	2.4,	92.2,	43,	0.48	,09:44:27	,10-Dec-2013
82,	2.3,	92.2,	43,	0.46	,09:45:27	,10-Dec-2013
83,	2.6,	92.1,	43,	0.41	,09:46:27	,10-Dec-2013
84,	2.6,	92.0,	43,	0.49	,09:47:27	,10-Dec-2013
85,	2.4,	91.9,	43,	0.48	,09:48:27	,10-Dec-2013
86,	2.6,	91.8,	44,	0.52	,09:49:27	,10-Dec-2013
87,	2.2,	91.7,	44,	0.56	,09:50:27	,10-Dec-2013
88,	2.2,	91.6,	44,	0.57	,09:51:27	,10-Dec-2013
89,	2.9,	91.5,	44,	0.57	,09:52:27	,10-Dec-2013
90,	2.8,	91.4,	44,	0.47	,09:53:27	,10-Dec-2013
91,	3.0,	91.2,	44,	0.74	,09:54:27	,10-Dec-2013
92,	2.6,	91.1,	44,	0.57	,09:55:27	,10-Dec-2013
93,	2.4,	91.0,	44,	0.50	,09:56:27	,10-Dec-2013
94,	2.7,	90.9,	44,	0.59	,09:57:27	,10-Dec-2013
95,	2.5,	90.8,	44,	0.41	,09:58:27	,10-Dec-2013
96,	2.6,	90.7,	44,	0.40	,09:59:27	,10-Dec-2013
97,	2.8,	90.6,	44,	0.45	,10:00:27	,10-Dec-2013
98,	2.5,	90.5,	44,	0.43	,10:01:27	,10-Dec-2013
99,	2.5,	90.4,	45,	0.41	,10:02:27	,10-Dec-2013
100,	2.8,	90.3,	45,	0.42	,10:03:27	,10-Dec-2013
101,	2.8,	90.3,	45,	0.52	,10:04:27	,10-Dec-2013
102,	2.8,	90.3,	45,	0.60	,10:05:27	,10-Dec-2013
103,	2.9,	90.4,	45,	0.54	,10:06:27	,10-Dec-2013

104,	2.7,	90.4,	45,	0.47	,10:07:27	,10-Dec-2013
105,	2.6,	90.3,	45,	0.42	,10:08:27	,10-Dec-2013
106,	2.5,	90.3,	45,	0.42	,10:09:27	,10-Dec-2013
107,	2.3,	90.2,	45,	0.46	,10:10:27	,10-Dec-2013
108,	2.8,	90.1,	45,	0.45	,10:11:27	,10-Dec-2013
109,	2.7,	90.1,	45,	0.59	,10:12:27	,10-Dec-2013
110,	2.7,	90.0,	45,	0.60	,10:13:27	,10-Dec-2013
111,	2.5,	90.0,	45,	0.57	,10:14:27	,10-Dec-2013
112,	2.6,	90.0,	45,	0.56	,10:15:27	,10-Dec-2013
113,	2.9,	90.0,	45,	0.73	,10:16:27	,10-Dec-2013
114,	2.5,	90.1,	45,	0.46	,10:17:27	,10-Dec-2013
115,	2.6,	90.2,	45,	0.48	,10:18:27	,10-Dec-2013
116,	2.3,	90.2,	45,	0.49	,10:19:27	,10-Dec-2013
117,	2.7,	90.2,	45,	0.43	,10:20:27	,10-Dec-2013
118,	2.9,	90.1,	45,	0.42	,10:21:27	,10-Dec-2013
119,	2.4,	90.1,	45,	0.40	,10:22:27	,10-Dec-2013
120,	2.7,	90.0,	45,	0.39	,10:23:27	,10-Dec-2013
121,	2.6,	89.9,	45,	0.46	,10:24:27	,10-Dec-2013
122,	2.3,	89.9,	45,	0.42	,10:25:27	,10-Dec-2013
123,	2.7,	89.8,	45,	0.47	,10:26:27	,10-Dec-2013
124,	2.7,	89.8,	45,	0.40	,10:27:27	,10-Dec-2013
125,	2.6,	89.8,	45,	0.51	,10:28:27	,10-Dec-2013
126,	2.5,	89.8,	45,	0.43	,10:29:27	,10-Dec-2013
127,	2.9,	89.8,	46,	0.46	,10:30:27	,10-Dec-2013
128,	2.5,	89.9,	46,	0.57	,10:31:27	,10-Dec-2013
129,	2.7,	90.1,	46,	0.48	,10:32:27	,10-Dec-2013
130,	2.7,	90.2,	46,	0.46	,10:33:27	,10-Dec-2013
131,	2.5,	90.4,	46,	0.46	,10:34:27	,10-Dec-2013
132,	2.7,	90.5,	46,	0.43	,10:35:27	,10-Dec-2013
133,	2.5,	90.6,	45,	0.40	,10:36:27	,10-Dec-2013
134,	2.4,	90.7,	45,	0.40	,10:37:27	,10-Dec-2013
135,	2.0,	90.9,	45,	0.40	,10:38:27	,10-Dec-2013
136,	2.3,	91.1,	45,	0.47	,10:39:27	,10-Dec-2013
137,	2.1,	91.3,	45,	0.47	,10:40:27	,10-Dec-2013
138,	2.2,	91.5,	45,	0.46	,10:41:27	,10-Dec-2013
139,	2.4,	91.8,	45,	0.45	,10:42:27	,10-Dec-2013
140,	2.6,	92.1,	44,	0.56	,10:43:27	,10-Dec-2013
141,	2.3,	92.4,	44,	0.45	,10:44:27	,10-Dec-2013
142,	2.5,	92.6,	44,	0.41	,10:45:27	,10-Dec-2013
143,	2.0,	92.8,	44,	0.44	,10:46:27	,10-Dec-2013
144,	2.4,	93.1,	43,	0.48	,10:47:27	,10-Dec-2013
145,	2.0,	93.4,	43,	0.40	,10:48:27	,10-Dec-2013
146,	1.8,	93.6,	42,	0.39	,10:49:27	,10-Dec-2013
147,	2.1,	93.8,	42,	0.41	,10:50:27	,10-Dec-2013
148,	1.9,	94.0,	41,	0.47	,10:51:27	,10-Dec-2013
149,	2.0,	94.2,	41,	0.40	,10:52:27	,10-Dec-2013
150,	1.8,	94.3,	40,	0.37	,10:53:27	,10-Dec-2013
151,	1.6,	94.5,	40,	0.37	,10:54:27	,10-Dec-2013
152,	1.6,	94.6,	40,	0.41	,10:55:27	,10-Dec-2013
153,	1.7,	95.0,	39,	0.43	,10:56:27	,10-Dec-2013
154,	1.6,	95.1,	39,	0.39	,10:57:27	,10-Dec-2013
155,	2.1,	95.3,	39,	0.40	,10:58:27	,10-Dec-2013
156,	1.6,	95.5,	38,	0.39	,10:59:27	,10-Dec-2013
157,	1.4,	95.7,	38,	0.39	,11:00:27	,10-Dec-2013
158,	1.5,	95.9,	38,	0.37	,11:01:27	,10-Dec-2013
159,	1.5,	96.1,	37,	0.38	,11:02:27	,10-Dec-2013
160,	1.3,	96.2,	37,	0.41	,11:03:27	,10-Dec-2013
161,	1.3,	96.4,	36,	0.38	,11:04:27	,10-Dec-2013
162,	1.5,	96.5,	36,	0.38	,11:05:27	,10-Dec-2013
163,	1.8,	96.7,	36,	0.39	,11:06:27	,10-Dec-2013
164,	1.6,	96.8,	35,	0.39	,11:07:27	,10-Dec-2013
165,	1.7,	96.9,	35,	0.36	,11:08:27	,10-Dec-2013
166,	1.5,	97.0,	35,	0.39	,11:09:27	,10-Dec-2013
167,	1.4,	97.1,	35,	0.43	,11:10:27	,10-Dec-2013

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168,	1.7,	97.2,	35,	0.42	,11:11:27	,10-Dec-2013
169,	1.6,	97.3,	34,	0.38	,11:12:27	,10-Dec-2013
170,	1.6,	97.4,	35,	0.35	,11:13:27	,10-Dec-2013
171,	1.7,	97.5,	34,	0.35	,11:14:27	,10-Dec-2013
172,	2.2,	97.7,	34,	0.36	,11:15:27	,10-Dec-2013
173,	2.5,	97.8,	34,	0.43	,11:16:27	,10-Dec-2013
174,	2.1,	98.0,	35,	0.41	,11:17:27	,10-Dec-2013
175,	2.0,	98.1,	35,	0.50	,11:18:27	,10-Dec-2013
176,	1.8,	98.3,	34,	0.46	,11:19:27	,10-Dec-2013
177,	1.3,	98.3,	34,	0.42	,11:20:27	,10-Dec-2013
178,	3.2,	98.3,	34,	0.64	,11:21:27	,10-Dec-2013
179,	1.6,	98.4,	34,	0.54	,11:22:27	,10-Dec-2013
180,	2.0,	98.3,	34,	0.48	,11:23:27	,10-Dec-2013
181,	1.2,	98.3,	34,	0.38	,11:24:27	,10-Dec-2013
182,	1.5,	98.3,	34,	0.38	,11:25:27	,10-Dec-2013
183,	1.5,	98.2,	35,	0.37	,11:26:27	,10-Dec-2013
184,	1.9,	98.2,	35,	0.37	,11:27:27	,10-Dec-2013
185,	2.6,	98.2,	35,	0.44	,11:28:27	,10-Dec-2013
186,	2.4,	98.2,	35,	0.49	,11:29:27	,10-Dec-2013
187,	2.0,	98.3,	35,	0.45	,11:30:27	,10-Dec-2013
188,	1.9,	98.4,	35,	0.37	,11:31:27	,10-Dec-2013
189,	1.4,	98.5,	35,	0.35	,11:32:27	,10-Dec-2013
190,	2.0,	98.6,	35,	0.37	,11:33:27	,10-Dec-2013
191,	1.9,	98.5,	35,	0.37	,11:34:27	,10-Dec-2013
192,	1.7,	98.5,	35,	0.42	,11:35:27	,10-Dec-2013
193,	1.9,	98.5,	35,	0.42	,11:36:27	,10-Dec-2013
194,	1.9,	98.4,	35,	0.38	,11:37:27	,10-Dec-2013
195,	1.9,	98.5,	35,	0.37	,11:38:27	,10-Dec-2013
196,	2.0,	98.4,	35,	0.38	,11:39:27	,10-Dec-2013
197,	1.8,	98.4,	35,	0.39	,11:40:27	,10-Dec-2013
198,	2.1,	98.5,	35,	0.39	,11:41:27	,10-Dec-2013
199,	2.2,	98.5,	35,	0.36	,11:42:27	,10-Dec-2013
200,	4.4,	98.5,	35,	0.66	,11:43:27	,10-Dec-2013
201,	2.3,	98.5,	35,	0.55	,11:44:27	,10-Dec-2013
202,	1.5,	98.4,	35,	0.40	,11:45:27	,10-Dec-2013
203,	2.0,	98.4,	35,	0.42	,11:46:27	,10-Dec-2013
204,	1.8,	98.2,	35,	0.39	,11:47:27	,10-Dec-2013
205,	1.8,	98.2,	36,	0.37	,11:48:27	,10-Dec-2013
206,	2.2,	98.0,	36,	0.37	,11:49:27	,10-Dec-2013
207,	1.8,	98.0,	36,	0.40	,11:50:27	,10-Dec-2013
208,	2.1,	98.0,	36,	0.43	,11:51:27	,10-Dec-2013
209,	2.0,	98.0,	36,	0.38	,11:52:27	,10-Dec-2013
210,	3.3,	98.0,	36,	0.52	,11:53:27	,10-Dec-2013
211,	2.1,	98.0,	37,	0.44	,11:54:27	,10-Dec-2013
212,	2.4,	98.0,	37,	0.40	,11:55:27	,10-Dec-2013
213,	2.1,	98.0,	37,	0.37	,11:56:27	,10-Dec-2013
214,	1.9,	98.1,	37,	0.37	,11:57:27	,10-Dec-2013
215,	2.2,	98.1,	37,	0.41	,11:58:27	,10-Dec-2013
216,	2.0,	98.0,	37,	0.46	,11:59:27	,10-Dec-2013
217,	1.8,	98.0,	37,	0.42	,12:00:27	,10-Dec-2013
218,	2.4,	97.9,	37,	0.36	,12:01:27	,10-Dec-2013
219,	2.4,	97.9,	37,	0.35	,12:02:27	,10-Dec-2013
220,	2.0,	97.8,	37,	0.35	,12:03:27	,10-Dec-2013
221,	2.3,	97.7,	37,	0.36	,12:04:27	,10-Dec-2013
222,	2.1,	97.7,	37,	0.40	,12:05:27	,10-Dec-2013
223,	1.6,	97.6,	37,	0.41	,12:06:27	,10-Dec-2013
224,	2.2,	97.4,	37,	0.40	,12:07:27	,10-Dec-2013
225,	2.2,	97.3,	37,	0.39	,12:08:27	,10-Dec-2013
226,	2.3,	97.1,	37,	0.42	,12:09:27	,10-Dec-2013
227,	2.3,	96.9,	38,	0.42	,12:10:27	,10-Dec-2013
228,	2.6,	96.8,	38,	0.43	,12:11:27	,10-Dec-2013
229,	2.6,	96.6,	38,	0.55	,12:12:27	,10-Dec-2013
230,	2.3,	96.4,	38,	0.58	,12:13:27	,10-Dec-2013
231,	2.6,	96.2,	39,	0.40	,12:14:27	,10-Dec-2013

232,	2.6,	96.1,	39,	0.44	,12:15:27	,10-Dec-2013
233,	2.7,	96.0,	39,	0.58	,12:16:27	,10-Dec-2013
234,	2.4,	96.0,	39,	0.48	,12:17:27	,10-Dec-2013
235,	2.3,	96.0,	39,	0.43	,12:18:27	,10-Dec-2013
236,	2.2,	96.0,	39,	0.40	,12:19:27	,10-Dec-2013
237,	2.6,	96.0,	40,	0.40	,12:20:27	,10-Dec-2013
238,	2.3,	96.0,	40,	0.39	,12:21:27	,10-Dec-2013
239,	2.4,	96.1,	40,	0.42	,12:22:27	,10-Dec-2013
240,	2.7,	96.2,	39,	0.38	,12:23:27	,10-Dec-2013
241,	2.6,	96.2,	39,	0.37	,12:24:27	,10-Dec-2013
242,	2.6,	96.2,	39,	0.39	,12:25:27	,10-Dec-2013
243,	3.0,	96.3,	39,	0.55	,12:26:27	,10-Dec-2013
244,	2.2,	96.2,	39,	0.47	,12:27:27	,10-Dec-2013
245,	2.3,	96.3,	39,	0.44	,12:28:27	,10-Dec-2013
246,	2.8,	96.2,	39,	0.51	,12:29:27	,10-Dec-2013
247,	3.1,	96.2,	39,	0.61	,12:30:27	,10-Dec-2013
248,	3.0,	96.2,	39,	0.49	,12:31:27	,10-Dec-2013
249,	2.9,	96.1,	40,	0.41	,12:32:27	,10-Dec-2013
250,	2.9,	96.1,	40,	0.44	,12:33:27	,10-Dec-2013
251,	2.6,	96.0,	40,	0.55	,12:34:27	,10-Dec-2013
252,	2.6,	96.0,	40,	0.49	,12:35:27	,10-Dec-2013
253,	2.6,	96.0,	40,	0.46	,12:36:27	,10-Dec-2013
254,	2.5,	95.9,	40,	0.49	,12:37:27	,10-Dec-2013
255,	3.1,	95.8,	40,	0.48	,12:38:27	,10-Dec-2013
256,	2.7,	95.8,	40,	0.45	,12:39:27	,10-Dec-2013
257,	3.1,	95.8,	40,	0.52	,12:40:27	,10-Dec-2013
258,	3.0,	95.7,	40,	0.49	,12:41:27	,10-Dec-2013
259,	3.5,	95.8,	40,	0.44	,12:42:27	,10-Dec-2013
260,	3.3,	95.8,	40,	0.47	,12:43:27	,10-Dec-2013
261,	3.5,	95.9,	40,	0.49	,12:44:27	,10-Dec-2013
262,	3.4,	95.9,	40,	0.41	,12:45:27	,10-Dec-2013
263,	3.6,	96.0,	40,	0.37	,12:46:27	,10-Dec-2013
264,	2.6,	96.2,	40,	0.42	,12:47:27	,10-Dec-2013
265,	2.7,	96.2,	40,	0.46	,12:48:27	,10-Dec-2013
266,	2.8,	96.2,	40,	0.42	,12:49:27	,10-Dec-2013
267,	2.9,	96.2,	40,	0.45	,12:50:27	,10-Dec-2013
268,	2.8,	96.1,	40,	0.46	,12:51:27	,10-Dec-2013
269,	2.7,	96.1,	40,	0.44	,12:52:27	,10-Dec-2013
270,	2.2,	96.0,	40,	0.42	,12:53:27	,10-Dec-2013
271,	3.1,	95.9,	40,	0.39	,12:54:27	,10-Dec-2013
272,	2.8,	95.9,	41,	0.41	,12:55:27	,10-Dec-2013
273,	3.1,	95.8,	41,	0.55	,12:56:27	,10-Dec-2013
274,	2.5,	95.8,	41,	0.55	,12:57:27	,10-Dec-2013
275,	2.6,	95.7,	41,	0.42	,12:58:27	,10-Dec-2013
276,	2.8,	95.7,	41,	0.45	,12:59:27	,10-Dec-2013
277,	2.7,	95.6,	41,	0.48	,13:00:27	,10-Dec-2013
278,	2.3,	95.5,	41,	0.46	,13:01:27	,10-Dec-2013
279,	2.4,	95.5,	41,	0.49	,13:02:27	,10-Dec-2013
280,	2.6,	95.4,	41,	0.43	,13:03:27	,10-Dec-2013
281,	2.9,	95.3,	41,	0.46	,13:04:27	,10-Dec-2013
282,	2.4,	95.2,	41,	0.42	,13:05:27	,10-Dec-2013
283,	2.5,	95.2,	41,	0.53	,13:06:27	,10-Dec-2013
284,	2.5,	95.1,	42,	0.52	,13:07:27	,10-Dec-2013
285,	2.3,	95.1,	42,	0.53	,13:08:27	,10-Dec-2013
286,	2.5,	95.2,	41,	0.54	,13:09:27	,10-Dec-2013
287,	2.2,	95.1,	41,	0.51	,13:10:27	,10-Dec-2013
288,	2.5,	95.1,	41,	0.53	,13:11:27	,10-Dec-2013
289,	2.4,	95.1,	41,	0.51	,13:12:27	,10-Dec-2013
290,	2.6,	95.0,	41,	0.41	,13:13:27	,10-Dec-2013
291,	2.5,	95.0,	42,	0.46	,13:14:27	,10-Dec-2013
292,	2.4,	95.0,	41,	0.43	,13:15:27	,10-Dec-2013
293,	2.1,	94.9,	42,	0.45	,13:16:27	,10-Dec-2013
294,	2.0,	94.9,	42,	0.47	,13:17:27	,10-Dec-2013
295,	1.9,	94.9,	42,	0.49	,13:18:27	,10-Dec-2013

296,	2.3,	95.0,	41,	0.52	,13:19:27	,10-Dec-2013
297,	2.5,	95.0,	41,	0.48	,13:20:27	,10-Dec-2013
298,	2.4,	95.0,	41,	0.42	,13:21:27	,10-Dec-2013
299,	2.2,	95.0,	41,	0.45	,13:22:27	,10-Dec-2013
300,	2.5,	95.0,	42,	0.45	,13:23:27	,10-Dec-2013
301,	2.0,	95.0,	41,	0.42	,13:24:27	,10-Dec-2013
302,	2.5,	95.1,	42,	0.47	,13:25:27	,10-Dec-2013
303,	2.2,	95.1,	41,	0.44	,13:26:27	,10-Dec-2013
304,	2.4,	95.2,	42,	0.38	,13:27:27	,10-Dec-2013
305,	2.7,	95.3,	42,	0.43	,13:28:27	,10-Dec-2013
306,	2.4,	95.3,	42,	0.42	,13:29:27	,10-Dec-2013
307,	2.6,	95.3,	42,	0.42	,13:30:27	,10-Dec-2013
308,	2.3,	95.3,	41,	0.48	,13:31:27	,10-Dec-2013
309,	3.1,	95.2,	41,	0.58	,13:32:27	,10-Dec-2013
310,	2.9,	95.2,	42,	0.56	,13:33:27	,10-Dec-2013
311,	2.5,	95.1,	42,	0.63	,13:34:27	,10-Dec-2013
312,	2.9,	95.0,	42,	0.46	,13:35:27	,10-Dec-2013
313,	2.8,	95.0,	42,	0.49	,13:36:27	,10-Dec-2013
314,	2.5,	94.9,	42,	0.39	,13:37:27	,10-Dec-2013
315,	2.6,	94.8,	42,	0.39	,13:38:27	,10-Dec-2013
316,	3.0,	94.7,	42,	0.45	,13:39:27	,10-Dec-2013
317,	2.8,	94.6,	42,	0.49	,13:40:27	,10-Dec-2013
318,	2.8,	94.4,	43,	0.59	,13:41:27	,10-Dec-2013
319,	2.6,	94.4,	42,	0.49	,13:42:27	,10-Dec-2013
320,	2.7,	94.3,	42,	0.56	,13:43:27	,10-Dec-2013
321,	2.4,	94.2,	43,	0.48	,13:44:27	,10-Dec-2013
322,	2.9,	94.2,	43,	0.50	,13:45:27	,10-Dec-2013
323,	2.6,	94.1,	43,	0.42	,13:46:27	,10-Dec-2013
324,	2.2,	94.1,	43,	0.40	,13:47:27	,10-Dec-2013
325,	2.5,	94.1,	43,	0.41	,13:48:27	,10-Dec-2013
326,	2.4,	94.1,	43,	0.43	,13:49:27	,10-Dec-2013
327,	3.0,	94.1,	43,	0.49	,13:50:27	,10-Dec-2013
328,	2.6,	94.0,	43,	0.52	,13:51:27	,10-Dec-2013
329,	2.7,	94.0,	43,	0.53	,13:52:27	,10-Dec-2013
330,	2.7,	94.0,	43,	0.59	,13:53:27	,10-Dec-2013
331,	2.9,	94.0,	43,	0.59	,13:54:27	,10-Dec-2013
332,	2.6,	94.0,	43,	0.52	,13:55:27	,10-Dec-2013
333,	2.8,	93.9,	43,	0.48	,13:56:27	,10-Dec-2013
334,	3.1,	93.9,	43,	0.64	,13:57:27	,10-Dec-2013
335,	2.6,	93.8,	43,	0.50	,13:58:27	,10-Dec-2013
336,	2.6,	93.8,	43,	0.63	,13:59:27	,10-Dec-2013
337,	3.2,	93.7,	43,	0.64	,14:00:27	,10-Dec-2013
338,	3.1,	93.7,	44,	0.47	,14:01:27	,10-Dec-2013
339,	2.7,	93.7,	44,	0.51	,14:02:27	,10-Dec-2013
340,	2.7,	93.8,	43,	0.60	,14:03:27	,10-Dec-2013
341,	2.9,	93.7,	44,	0.56	,14:04:27	,10-Dec-2013
342,	2.9,	93.7,	43,	0.63	,14:05:27	,10-Dec-2013
343,	2.5,	93.8,	44,	0.48	,14:06:27	,10-Dec-2013
344,	2.9,	93.8,	44,	0.45	,14:07:27	,10-Dec-2013
345,	2.9,	93.8,	44,	0.47	,14:08:27	,10-Dec-2013
346,	2.7,	93.7,	44,	0.47	,14:09:27	,10-Dec-2013
347,	2.9,	93.7,	44,	0.61	,14:10:27	,10-Dec-2013
348,	2.7,	93.6,	44,	0.56	,14:11:27	,10-Dec-2013
349,	2.8,	93.7,	44,	0.57	,14:12:27	,10-Dec-2013
350,	2.8,	93.7,	44,	0.57	,14:13:27	,10-Dec-2013
351,	2.8,	93.6,	44,	0.60	,14:14:27	,10-Dec-2013
352,	2.9,	93.6,	44,	0.49	,14:15:27	,10-Dec-2013
353,	3.0,	93.6,	44,	0.53	,14:16:27	,10-Dec-2013
354,	2.8,	93.5,	44,	0.54	,14:17:27	,10-Dec-2013
355,	2.7,	93.5,	44,	0.57	,14:18:27	,10-Dec-2013
356,	2.7,	93.5,	45,	0.51	,14:19:27	,10-Dec-2013
357,	2.7,	93.6,	45,	0.58	,14:20:27	,10-Dec-2013
358,	2.7,	93.6,	45,	0.56	,14:21:27	,10-Dec-2013
359,	2.9,	93.6,	44,	0.67	,14:22:27	,10-Dec-2013

360,	3.3,	93.5,	44,	0.72	,14:23:27	,10-Dec-2013
361,	2.7,	93.5,	44,	0.56	,14:24:27	,10-Dec-2013
362,	2.7,	93.5,	44,	0.56	,14:25:27	,10-Dec-2013
363,	2.8,	93.4,	44,	0.46	,14:26:27	,10-Dec-2013
364,	2.9,	93.4,	44,	0.48	,14:27:27	,10-Dec-2013
365,	2.7,	93.4,	44,	0.48	,14:28:27	,10-Dec-2013
366,	2.8,	93.3,	44,	0.55	,14:29:27	,10-Dec-2013
367,	2.6,	93.3,	45,	0.47	,14:30:27	,10-Dec-2013
368,	2.8,	93.3,	44,	0.61	,14:31:27	,10-Dec-2013
369,	2.9,	93.2,	45,	0.56	,14:32:27	,10-Dec-2013
370,	3.2,	93.2,	44,	0.63	,14:33:27	,10-Dec-2013
371,	2.6,	93.2,	44,	0.51	,14:34:27	,10-Dec-2013
372,	2.6,	93.2,	44,	0.56	,14:35:27	,10-Dec-2013
373,	2.5,	93.2,	44,	0.49	,14:36:27	,10-Dec-2013
374,	2.7,	93.2,	44,	0.45	,14:37:27	,10-Dec-2013
375,	3.0,	93.1,	44,	0.47	,14:38:27	,10-Dec-2013
376,	3.4,	93.1,	44,	0.50	,14:39:27	,10-Dec-2013
377,	2.1,	93.0,	44,	0.49	,14:40:27	,10-Dec-2013
378,	2.3,	93.0,	43,	0.48	,14:41:27	,10-Dec-2013
379,	2.2,	92.9,	43,	0.44	,14:42:27	,10-Dec-2013
380,	2.4,	92.8,	43,	0.47	,14:43:27	,10-Dec-2013
381,	2.4,	92.8,	43,	0.51	,14:44:27	,10-Dec-2013
382,	2.6,	92.7,	43,	0.52	,14:45:27	,10-Dec-2013
383,	2.7,	92.7,	43,	0.61	,14:46:27	,10-Dec-2013
384,	2.6,	92.7,	43,	0.58	,14:47:27	,10-Dec-2013
385,	2.7,	92.6,	43,	0.44	,14:48:27	,10-Dec-2013
386,	2.8,	92.6,	43,	0.50	,14:49:27	,10-Dec-2013

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DataRAM4 SN# D787 Dev# 1 Tag# 63 start: 10-Dec-2013 08:23:27 interval: 00:01:00
(MASS)ug/m3
Temp (F)
Humidity (RH%)
Diameter (nm)
48
46
44
42
40
38
36
34
32
30
28
26
24
22
20
18
16
14
12
10
8
6
4
2
0
12/10/13 08:30:00
12/10/13 09:00:00
12/10/13 09:30:00
12/10/13 10:00:00
12/10/13 10:30:00
12/10/13 11:00:00
12/10/13 11:30:00
12/10/13 12:00:00
12/10/13 12:30:00
12/10/13 13:00:00
12/10/13 13:30:00
12/10/13 14:00:00
12/10/13 14:30:00

(MASS)ug/m3
Temp (F)
Humidity (RH%)
Diameter (nm)
DataRAM 4 SN# D787 Dev# 1 Tag# 63 start 10-Dec-2013 08:23:27 Interval 00:01:00
900
850
800
750
700
650
600
550
500
450
400
350
300
250
200
150
100
50
0
12/10/13 08:30:00
12/10/13 09:00:00
12/10/13 09:30:00
12/10/13 10:00:00
12/10/13 10:30:00
12/10/13 11:00:00
12/10/13 11:30:00
12/10/13 12:00:00
12/10/13 12:30:00
12/10/13 13:00:00
12/10/13 13:30:00
12/10/13 14:00:00
12/10/13 14:30:00

APPENDIX 5
TOWER #2 AIR PARTICULATE MONITORING

"Model Number", "DataRAM 4 ", 106
Serial no. ", "D788 "
"Device no. ", 2 a1 sur PR OLEFINS
"Tag Number ", 55
Start Time ", 09:09:31
Start Date ", 10-Dec-2013
"Log Period ", 00:01:00
"Number ", 375
CalFactor ", 1.000000
"Unit ", 0
"Unit Name ", "(MASS)ug/m3"
SIZE_CORRECT", "ENABLED"
TEMPUNITS ", F
"Max MASS ", 1002.373000
Max MASS @ ", 1 ,07:53:31 ,10-Dec-2013
Avg MASS ", 16.826390
"Max Diam ", 4.127007
"Max Diam @ ", 1 ,09:08:31 ,10-Dec-2013
Avg Diam ", 1.077175
"ALARM ", "DISABLED"
"ALARM_LEVEL ", 0.0
AUTO_ZERO ", "DISABLED"
AZ INTERVAL ", 1
"Errors ", 0000
"ecord,"(MASS)ug/m3", Temp, RHumidity, Diameter

1,	3.5,	81.8,	42,	0.46	,09:10:31	,10-Dec-2013
2,	2.9,	82.1,	45,	0.62	,09:11:31	,10-Dec-2013
3,	2.6,	82.5,	47,	0.60	,09:12:31	,10-Dec-2013
4,	2.8,	82.8,	49,	0.62	,09:13:31	,10-Dec-2013
5,	2.9,	83.1,	50,	0.73	,09:14:31	,10-Dec-2013
6,	2.7,	83.4,	51,	0.58	,09:15:31	,10-Dec-2013
7,	2.7,	83.7,	52,	0.54	,09:16:31	,10-Dec-2013
8,	2.6,	84.1,	52,	0.62	,09:17:31	,10-Dec-2013
9,	2.7,	84.4,	52,	0.57	,09:18:31	,10-Dec-2013
10,	2.4,	84.7,	52,	0.46	,09:19:31	,10-Dec-2013
11,	2.3,	85.1,	52,	0.46	,09:20:31	,10-Dec-2013
12,	2.4,	85.4,	52,	0.46	,09:21:31	,10-Dec-2013
13,	2.4,	85.8,	52,	0.45	,09:22:31	,10-Dec-2013
14,	2.3,	86.1,	51,	0.40	,09:23:31	,10-Dec-2013
15,	2.3,	86.3,	51,	0.45	,09:24:31	,10-Dec-2013
16,	2.5,	86.6,	51,	0.50	,09:25:31	,10-Dec-2013
17,	2.3,	87.0,	51,	0.47	,09:26:31	,10-Dec-2013
18,	2.1,	87.2,	51,	0.48	,09:27:31	,10-Dec-2013
19,	2.3,	87.6,	51,	0.48	,09:28:31	,10-Dec-2013
20,	1.9,	87.9,	51,	0.40	,09:29:31	,10-Dec-2013
21,	2.3,	88.2,	50,	0.41	,09:30:31	,10-Dec-2013
22,	2.0,	88.6,	50,	0.39	,09:31:31	,10-Dec-2013
23,	2.2,	88.9,	50,	0.42	,09:32:31	,10-Dec-2013
24,	1.9,	89.2,	50,	0.42	,09:33:31	,10-Dec-2013
25,	2.0,	89.5,	49,	0.43	,09:34:31	,10-Dec-2013
26,	2.5,	89.8,	49,	0.48	,09:35:31	,10-Dec-2013
27,	2.5,	89.9,	49,	0.49	,09:36:31	,10-Dec-2013
28,	3.0,	90.0,	48,	0.67	,09:37:31	,10-Dec-2013
29,	2.4,	90.1,	48,	0.54	,09:38:31	,10-Dec-2013
30,	2.3,	90.1,	48,	0.48	,09:39:31	,10-Dec-2013
31,	2.3,	90.3,	48,	0.45	,09:40:31	,10-Dec-2013
32,	2.3,	90.4,	48,	0.49	,09:41:31	,10-Dec-2013
33,	2.3,	90.5,	47,	0.40	,09:42:31	,10-Dec-2013
34,	2.1,	90.5,	47,	0.41	,09:43:31	,10-Dec-2013
35,	2.3,	90.5,	47,	0.47	,09:44:31	,10-Dec-2013
36,	2.2,	90.5,	47,	0.53	,09:45:31	,10-Dec-2013
37,	2.2,	90.5,	47,	0.53	,09:46:31	,10-Dec-2013
38,	2.5,	90.3,	47,	0.47	,09:47:31	,10-Dec-2013
39,	2.4,	90.3,	47,	0.45	,09:48:31	,10-Dec-2013

40,	2.2,	90.1,	47,	0.42	,09:49:31	,10-Dec-2013
41,	2.3,	90.0,	47,	0.45	,09:50:31	,10-Dec-2013
42,	2.1,	89.9,	47,	0.41	,09:51:31	,10-Dec-2013
43,	2.1,	89.8,	47,	0.45	,09:52:31	,10-Dec-2013
44,	2.2,	89.8,	47,	0.42	,09:53:31	,10-Dec-2013
45,	2.1,	89.8,	47,	0.43	,09:54:31	,10-Dec-2013
46,	2.2,	89.8,	47,	0.42	,09:55:31	,10-Dec-2013
47,	2.4,	89.8,	47,	0.48	,09:56:31	,10-Dec-2013
48,	2.4,	89.8,	47,	0.43	,09:57:31	,10-Dec-2013
49,	2.2,	89.9,	48,	0.36	,09:58:31	,10-Dec-2013
50,	2.5,	90.0,	47,	0.41	,09:59:31	,10-Dec-2013
51,	2.2,	90.1,	47,	0.46	,10:00:31	,10-Dec-2013
52,	2.1,	90.1,	47,	0.52	,10:01:31	,10-Dec-2013
53,	2.7,	90.1,	47,	0.53	,10:02:31	,10-Dec-2013
54,	2.7,	90.1,	47,	0.53	,10:03:31	,10-Dec-2013
55,	4.0,	90.1,	47,	0.88	,10:04:31	,10-Dec-2013
56,	2.7,	90.2,	47,	0.60	,10:05:31	,10-Dec-2013
57,	2.5,	90.2,	47,	0.53	,10:06:31	,10-Dec-2013
58,	2.3,	90.3,	47,	0.41	,10:07:31	,10-Dec-2013
59,	2.1,	90.4,	47,	0.42	,10:08:31	,10-Dec-2013
60,	2.1,	90.5,	47,	0.48	,10:09:31	,10-Dec-2013
61,	2.2,	90.6,	47,	0.52	,10:10:31	,10-Dec-2013
62,	2.4,	90.7,	47,	0.60	,10:11:31	,10-Dec-2013
63,	2.1,	90.7,	47,	0.53	,10:12:31	,10-Dec-2013
64,	2.0,	90.7,	47,	0.54	,10:13:31	,10-Dec-2013
65,	1.8,	90.7,	47,	0.50	,10:14:31	,10-Dec-2013
66,	2.2,	90.7,	47,	0.48	,10:15:31	,10-Dec-2013
67,	2.2,	90.7,	46,	0.47	,10:16:31	,10-Dec-2013
68,	2.3,	90.6,	46,	0.56	,10:17:31	,10-Dec-2013
69,	1.8,	90.6,	46,	0.47	,10:18:31	,10-Dec-2013
70,	2.4,	90.5,	47,	0.46	,10:19:31	,10-Dec-2013
71,	2.3,	90.4,	47,	0.42	,10:20:31	,10-Dec-2013
72,	2.4,	90.4,	47,	0.43	,10:21:31	,10-Dec-2013
73,	2.3,	90.3,	47,	0.43	,10:22:31	,10-Dec-2013
74,	2.1,	90.2,	47,	0.44	,10:23:31	,10-Dec-2013
75,	2.3,	90.1,	47,	0.43	,10:24:31	,10-Dec-2013
76,	2.5,	90.1,	47,	0.40	,10:25:31	,10-Dec-2013
77,	2.7,	90.0,	47,	0.43	,10:26:31	,10-Dec-2013
78,	2.5,	89.9,	47,	0.53	,10:27:31	,10-Dec-2013
79,	2.3,	89.9,	48,	0.56	,10:28:31	,10-Dec-2013
80,	2.5,	89.8,	48,	0.59	,10:29:31	,10-Dec-2013
81,	2.5,	89.8,	48,	0.49	,10:30:31	,10-Dec-2013
82,	2.4,	89.7,	48,	0.43	,10:31:31	,10-Dec-2013
83,	2.4,	89.8,	48,	0.44	,10:32:31	,10-Dec-2013
84,	2.5,	89.9,	48,	0.46	,10:33:31	,10-Dec-2013
85,	2.9,	90.0,	48,	0.50	,10:34:31	,10-Dec-2013
86,	2.4,	90.0,	48,	0.65	,10:35:31	,10-Dec-2013
87,	2.2,	90.1,	48,	0.50	,10:36:31	,10-Dec-2013
88,	2.3,	90.1,	47,	0.48	,10:37:31	,10-Dec-2013
89,	2.3,	90.0,	47,	0.54	,10:38:31	,10-Dec-2013
90,	2.4,	90.0,	47,	0.57	,10:39:31	,10-Dec-2013
91,	2.6,	89.9,	47,	0.60	,10:40:31	,10-Dec-2013
92,	2.4,	89.9,	47,	0.50	,10:41:31	,10-Dec-2013
93,	2.4,	89.9,	48,	0.56	,10:42:31	,10-Dec-2013
94,	2.4,	89.9,	47,	0.55	,10:43:31	,10-Dec-2013
95,	2.4,	90.0,	48,	0.59	,10:44:31	,10-Dec-2013
96,	2.3,	90.1,	48,	0.61	,10:45:31	,10-Dec-2013
97,	2.2,	90.1,	47,	0.56	,10:46:31	,10-Dec-2013
98,	2.5,	90.3,	47,	0.42	,10:47:31	,10-Dec-2013
99,	2.1,	90.3,	47,	0.41	,10:48:31	,10-Dec-2013
100,	2.2,	90.3,	47,	0.49	,10:49:31	,10-Dec-2013
101,	2.9,	90.3,	47,	0.71	,10:50:31	,10-Dec-2013
102,	2.5,	90.3,	47,	0.52	,10:51:31	,10-Dec-2013
103,	2.6,	90.3,	47,	0.52	,10:52:31	,10-Dec-2013

104,	2.3,	90.3,	47,	0.50	,10:53:31	,10-Dec-2013
105,	2.2,	90.2,	47,	0.55	,10:54:31	,10-Dec-2013
106,	2.3,	90.2,	47,	0.55	,10:55:31	,10-Dec-2013
107,	2.4,	90.4,	47,	0.47	,10:56:31	,10-Dec-2013
108,	2.2,	90.5,	47,	0.51	,10:57:31	,10-Dec-2013
109,	2.1,	90.7,	47,	0.54	,10:58:31	,10-Dec-2013
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111,	2.1,	91.2,	47,	0.50	,11:00:31	,10-Dec-2013
112,	1.9,	91.5,	47,	0.49	,11:01:31	,10-Dec-2013
113,	1.7,	91.8,	46,	0.47	,11:02:31	,10-Dec-2013
114,	2.6,	92.2,	46,	0.52	,11:03:31	,10-Dec-2013
115,	1.6,	92.4,	46,	0.43	,11:04:31	,10-Dec-2013
116,	1.7,	92.7,	45,	0.44	,11:05:31	,10-Dec-2013
117,	1.7,	93.0,	45,	0.42	,11:06:31	,10-Dec-2013
118,	1.8,	93.3,	44,	0.48	,11:07:31	,10-Dec-2013
119,	1.5,	93.5,	44,	0.47	,11:08:31	,10-Dec-2013
120,	1.7,	93.8,	44,	0.46	,11:09:31	,10-Dec-2013
121,	1.9,	94.2,	43,	0.41	,11:10:31	,10-Dec-2013
122,	2.2,	94.4,	43,	0.48	,11:11:31	,10-Dec-2013
123,	1.7,	94.8,	43,	0.43	,11:12:31	,10-Dec-2013
124,	2.1,	95.1,	42,	0.44	,11:13:31	,10-Dec-2013
125,	6.5,	95.4,	42,	0.66	,11:14:31	,10-Dec-2013
126,	1.9,	95.7,	42,	0.51	,11:15:31	,10-Dec-2013
127,	2.2,	96.0,	41,	0.62	,11:16:31	,10-Dec-2013
128,	6.0,	96.3,	40,	1.37	,11:17:31	,10-Dec-2013
129,	2.5,	96.6,	40,	0.77	,11:18:31	,10-Dec-2013
130,	1.6,	96.9,	40,	0.51	,11:19:31	,10-Dec-2013
131,	1.7,	97.0,	39,	0.48	,11:20:31	,10-Dec-2013
132,	1.9,	97.2,	38,	0.71	,11:21:31	,10-Dec-2013
133,	1.2,	97.3,	38,	0.55	,11:22:31	,10-Dec-2013
134,	1.6,	97.4,	37,	0.52	,11:23:31	,10-Dec-2013
135,	1.8,	97.5,	37,	0.46	,11:24:31	,10-Dec-2013
136,	1.8,	97.7,	37,	0.42	,11:25:31	,10-Dec-2013
137,	1.1,	97.8,	36,	0.37	,11:26:31	,10-Dec-2013
138,	1.2,	97.9,	36,	0.37	,11:27:31	,10-Dec-2013
139,	1.4,	98.1,	36,	0.38	,11:28:31	,10-Dec-2013
140,	3.0,	98.2,	35,	0.70	,11:29:31	,10-Dec-2013
141,	1.0,	98.5,	35,	0.41	,11:30:31	,10-Dec-2013
142,	1.2,	98.6,	35,	0.42	,11:31:31	,10-Dec-2013
143,	1.6,	98.9,	34,	0.40	,11:32:31	,10-Dec-2013
144,	1.8,	99.0,	34,	0.44	,11:33:31	,10-Dec-2013
145,	1.7,	99.2,	33,	0.41	,11:34:31	,10-Dec-2013
146,	1.6,	99.4,	33,	0.41	,11:35:31	,10-Dec-2013
147,	0.9,	99.5,	33,	0.38	,11:36:31	,10-Dec-2013
148,	1.1,	99.7,	33,	0.39	,11:37:31	,10-Dec-2013
149,	1.3,	99.7,	33,	0.40	,11:38:31	,10-Dec-2013
150,	4.1,	99.8,	33,	0.93	,11:39:31	,10-Dec-2013
151,	17.8,	99.9,	33,	3.05	,11:40:31	,10-Dec-2013
152,	121.7,	100.0,	33,	4.12	,11:41:31	,10-Dec-2013
153,	26.5,	100.2,	33,	3.25	,11:42:31	,10-Dec-2013
154,	6.4,	100.4,	34,	1.57	,11:43:31	,10-Dec-2013
155,	7.0,	100.5,	33,	1.33	,11:44:31	,10-Dec-2013
156,	2.8,	100.7,	34,	0.90	,11:45:31	,10-Dec-2013
157,	1.6,	100.8,	34,	0.58	,11:46:31	,10-Dec-2013
158,	1.8,	101.0,	34,	0.57	,11:47:31	,10-Dec-2013
159,	1.3,	101.1,	34,	0.47	,11:48:31	,10-Dec-2013
160,	0.8,	101.2,	34,	0.38	,11:49:31	,10-Dec-2013
161,	6.7,	101.3,	34,	1.10	,11:50:31	,10-Dec-2013
162,	4.3,	101.5,	34,	0.93	,11:51:31	,10-Dec-2013
163,	12.4,	101.6,	34,	2.57	,11:52:31	,10-Dec-2013
164,	264.9,	101.8,	34,	4.10	,11:53:31	,10-Dec-2013
165,	1002.4,	101.9,	34,	4.12	,11:54:31	,10-Dec-2013
166,	38.0,	102.0,	33,	2.50	,11:55:31	,10-Dec-2013
167,	7.3,	102.0,	33,	1.47	,11:56:31	,10-Dec-2013

168,	14.9,	102.1,	33,	2.24	,11:57:31	,10-Dec-2013
169,	1.8,	102.1,	33,	0.50	,11:58:31	,10-Dec-2013
170,	3.3,	102.1,	33,	0.65	,11:59:31	,10-Dec-2013
171,	11.6,	102.0,	33,	1.63	,12:00:31	,10-Dec-2013
172,	1.8,	102.0,	33,	0.61	,12:01:31	,10-Dec-2013
173,	2.0,	102.1,	33,	0.53	,12:02:31	,10-Dec-2013
174,	5.7,	102.1,	33,	1.05	,12:03:31	,10-Dec-2013
175,	12.1,	102.1,	33,	2.36	,12:04:31	,10-Dec-2013
176,	5.2,	102.2,	33,	1.15	,12:05:31	,10-Dec-2013
177,	122.7,	102.2,	33,	3.41	,12:06:31	,10-Dec-2013
178,	14.8,	102.2,	33,	2.63	,12:07:31	,10-Dec-2013
179,	2.9,	102.3,	33,	0.86	,12:08:31	,10-Dec-2013
180,	50.6,	102.4,	33,	3.86	,12:09:31	,10-Dec-2013
181,	825.2,	102.4,	33,	4.12	,12:10:31	,10-Dec-2013
182,	20.0,	102.4,	33,	2.95	,12:11:31	,10-Dec-2013
183,	2.0,	102.4,	33,	0.67	,12:12:31	,10-Dec-2013
184,	1.8,	102.5,	33,	0.49	,12:13:31	,10-Dec-2013
185,	1.3,	102.5,	33,	0.38	,12:14:31	,10-Dec-2013
186,	1.5,	102.5,	33,	0.37	,12:15:31	,10-Dec-2013
187,	16.2,	102.5,	34,	0.48	,12:16:31	,10-Dec-2013
188,	81.6,	102.5,	34,	3.26	,12:17:31	,10-Dec-2013
189,	6.9,	102.6,	34,	1.70	,12:18:31	,10-Dec-2013
190,	1.9,	102.7,	34,	0.61	,12:19:31	,10-Dec-2013
191,	7.5,	102.8,	35,	0.63	,12:20:31	,10-Dec-2013
192,	78.8,	103.0,	35,	3.98	,12:21:31	,10-Dec-2013
193,	12.5,	103.1,	35,	2.29	,12:22:31	,10-Dec-2013
194,	11.4,	103.2,	34,	1.91	,12:23:31	,10-Dec-2013
195,	2.0,	103.3,	34,	0.60	,12:24:31	,10-Dec-2013
196,	2.1,	103.4,	34,	0.49	,12:25:31	,10-Dec-2013
197,	1.1,	103.4,	34,	0.37	,12:26:31	,10-Dec-2013
198,	5.2,	103.5,	34,	0.84	,12:27:31	,10-Dec-2013
199,	4.5,	103.5,	34,	1.05	,12:28:31	,10-Dec-2013
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201,	2.3,	103.6,	33,	0.59	,12:30:31	,10-Dec-2013
202,	1.4,	103.6,	33,	0.42	,12:31:31	,10-Dec-2013
203,	1.6,	103.5,	33,	0.46	,12:32:31	,10-Dec-2013
204,	1.3,	103.5,	33,	0.44	,12:33:31	,10-Dec-2013
205,	1.6,	103.5,	33,	0.57	,12:34:31	,10-Dec-2013
206,	1.7,	103.3,	33,	0.58	,12:35:31	,10-Dec-2013
207,	1.5,	103.2,	33,	0.45	,12:36:31	,10-Dec-2013
208,	4.5,	103.1,	34,	0.69	,12:37:31	,10-Dec-2013
209,	14.6,	102.9,	34,	1.74	,12:38:31	,10-Dec-2013
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211,	1.9,	102.6,	34,	0.51	,12:40:31	,10-Dec-2013
212,	17.0,	102.6,	34,	2.08	,12:41:31	,10-Dec-2013
213,	12.6,	102.5,	34,	2.42	,12:42:31	,10-Dec-2013
214,	5.1,	102.4,	34,	1.03	,12:43:31	,10-Dec-2013
215,	2.2,	102.4,	34,	0.49	,12:44:31	,10-Dec-2013
216,	7.6,	102.3,	35,	1.74	,12:45:31	,10-Dec-2013
217,	3.9,	102.3,	35,	1.14	,12:46:31	,10-Dec-2013
218,	1.9,	102.3,	35,	0.56	,12:47:31	,10-Dec-2013
219,	7.0,	102.3,	35,	1.45	,12:48:31	,10-Dec-2013
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222,	9.4,	102.3,	34,	1.80	,12:51:31	,10-Dec-2013
223,	11.1,	102.3,	34,	2.20	,12:52:31	,10-Dec-2013
224,	3.4,	102.3,	34,	0.90	,12:53:31	,10-Dec-2013
225,	7.8,	102.3,	34,	1.34	,12:54:31	,10-Dec-2013
226,	2.5,	102.4,	35,	0.61	,12:55:31	,10-Dec-2013
227,	3.3,	102.4,	35,	0.63	,12:56:31	,10-Dec-2013
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229,	11.3,	102.5,	35,	1.90	,12:58:31	,10-Dec-2013
230,	144.1,	102.5,	35,	3.17	,12:59:31	,10-Dec-2013
231,	85.0,	102.5,	34,	4.12	,13:00:31	,10-Dec-2013

232,	8.2,	102.5,	35,	2.00	,13:01:31	,10-Dec-2013
233,	2.5,	102.4,	35,	0.66	,13:02:31	,10-Dec-2013
234,	3.8,	102.4,	35,	0.83	,13:03:31	,10-Dec-2013
235,	1.9,	102.4,	35,	0.54	,13:04:31	,10-Dec-2013
236,	3.7,	102.4,	34,	0.72	,13:05:31	,10-Dec-2013
237,	32.0,	102.4,	34,	3.80	,13:06:31	,10-Dec-2013
238,	12.9,	102.4,	34,	2.16	,13:07:31	,10-Dec-2013
239,	2.8,	102.3,	35,	0.53	,13:08:31	,10-Dec-2013
240,	2.6,	102.3,	35,	0.47	,13:09:31	,10-Dec-2013
241,	26.9,	102.2,	35,	1.94	,13:10:31	,10-Dec-2013
242,	10.0,	102.2,	35,	1.91	,13:11:31	,10-Dec-2013
243,	55.9,	102.1,	35,	4.04	,13:12:31	,10-Dec-2013
244,	9.6,	101.9,	35,	1.80	,13:13:31	,10-Dec-2013
245,	2.9,	101.9,	35,	0.67	,13:14:31	,10-Dec-2013
246,	3.8,	101.7,	35,	0.90	,13:15:31	,10-Dec-2013
247,	2.1,	101.7,	35,	0.65	,13:16:31	,10-Dec-2013
248,	66.7,	101.6,	35,	2.01	,13:17:31	,10-Dec-2013
249,	28.3,	101.5,	35,	3.49	,13:18:31	,10-Dec-2013
250,	3.3,	101.5,	35,	0.81	,13:19:31	,10-Dec-2013
251,	81.6,	101.5,	36,	2.19	,13:20:31	,10-Dec-2013
252,	33.1,	101.4,	36,	3.78	,13:21:31	,10-Dec-2013
253,	8.6,	101.3,	36,	1.73	,13:22:31	,10-Dec-2013
254,	5.3,	101.3,	36,	1.26	,13:23:31	,10-Dec-2013
255,	2.8,	101.3,	36,	0.51	,13:24:31	,10-Dec-2013
256,	2.0,	101.3,	36,	0.38	,13:25:31	,10-Dec-2013
257,	2.3,	101.2,	36,	0.54	,13:26:31	,10-Dec-2013
258,	3.8,	101.1,	36,	0.78	,13:27:31	,10-Dec-2013
259,	10.4,	101.0,	36,	1.97	,13:28:31	,10-Dec-2013
260,	2.9,	100.9,	36,	0.84	,13:29:31	,10-Dec-2013
261,	3.2,	100.9,	36,	0.62	,13:30:31	,10-Dec-2013
262,	30.3,	100.8,	36,	1.58	,13:31:31	,10-Dec-2013
263,	11.0,	100.8,	36,	2.02	,13:32:31	,10-Dec-2013
264,	10.1,	100.7,	36,	1.68	,13:33:31	,10-Dec-2013
265,	24.6,	100.6,	37,	3.28	,13:34:31	,10-Dec-2013
266,	35.5,	100.6,	37,	2.45	,13:35:31	,10-Dec-2013
267,	11.8,	100.5,	37,	1.51	,13:36:31	,10-Dec-2013
268,	4.0,	100.5,	37,	1.07	,13:37:31	,10-Dec-2013
269,	3.8,	100.5,	37,	0.84	,13:38:31	,10-Dec-2013
270,	5.9,	100.5,	37,	1.42	,13:39:31	,10-Dec-2013
271,	35.9,	100.4,	37,	2.09	,13:40:31	,10-Dec-2013
272,	13.9,	100.4,	37,	2.51	,13:41:31	,10-Dec-2013
273,	25.9,	100.3,	37,	2.81	,13:42:31	,10-Dec-2013
274,	66.8,	100.3,	37,	3.71	,13:43:31	,10-Dec-2013
275,	2.9,	100.2,	37,	1.02	,13:44:31	,10-Dec-2013
276,	1.5,	100.2,	37,	0.49	,13:45:31	,10-Dec-2013
277,	1.6,	100.1,	37,	0.50	,13:46:31	,10-Dec-2013
278,	1.7,	100.0,	37,	0.50	,13:47:31	,10-Dec-2013
279,	15.9,	100.0,	37,	2.89	,13:48:31	,10-Dec-2013
280,	2.8,	100.0,	37,	0.72	,13:49:31	,10-Dec-2013
281,	2.4,	100.0,	37,	0.58	,13:50:31	,10-Dec-2013
282,	68.3,	100.1,	37,	3.67	,13:51:31	,10-Dec-2013
283,	371.8,	100.1,	37,	4.12	,13:52:31	,10-Dec-2013
284,	29.1,	100.2,	37,	3.91	,13:53:31	,10-Dec-2013
285,	3.3,	100.3,	37,	1.00	,13:54:31	,10-Dec-2013
286,	168.5,	100.3,	37,	2.53	,13:55:31	,10-Dec-2013
287,	94.8,	100.3,	37,	4.12	,13:56:31	,10-Dec-2013
288,	40.2,	100.3,	37,	3.64	,13:57:31	,10-Dec-2013
289,	26.3,	100.2,	37,	2.83	,13:58:31	,10-Dec-2013
290,	5.1,	100.2,	37,	1.14	,13:59:31	,10-Dec-2013
291,	1.5,	100.2,	38,	0.51	,14:00:31	,10-Dec-2013
292,	2.1,	100.2,	38,	0.55	,14:01:31	,10-Dec-2013
293,	2.2,	100.2,	38,	0.56	,14:02:31	,10-Dec-2013
294,	2.4,	100.2,	38,	0.63	,14:03:31	,10-Dec-2013
295,	2.7,	100.2,	38,	0.44	,14:04:31	,10-Dec-2013

296,	2.1,	100.2,	38,	0.43	,14:05:31	,10-Dec-2013
297,	2.2,	100.2,	38,	0.49	,14:06:31	,10-Dec-2013
298,	2.5,	100.2,	38,	0.60	,14:07:31	,10-Dec-2013
299,	6.5,	100.2,	38,	0.89	,14:08:31	,10-Dec-2013
300,	2.4,	100.1,	38,	0.54	,14:09:31	,10-Dec-2013
301,	2.6,	100.0,	38,	0.54	,14:10:31	,10-Dec-2013
302,	1.9,	100.0,	38,	0.42	,14:11:31	,10-Dec-2013
303,	212.2,	99.9,	38,	2.18	,14:12:31	,10-Dec-2013
304,	65.1,	99.9,	38,	4.07	,14:13:31	,10-Dec-2013
305,	8.7,	99.8,	38,	1.71	,14:14:31	,10-Dec-2013
306,	7.0,	99.8,	38,	1.08	,14:15:31	,10-Dec-2013
307,	74.9,	99.7,	38,	4.05	,14:16:31	,10-Dec-2013
308,	49.9,	99.7,	38,	4.05	,14:17:31	,10-Dec-2013
309,	39.6,	99.6,	38,	3.64	,14:18:31	,10-Dec-2013
310,	116.4,	99.6,	38,	3.42	,14:19:31	,10-Dec-2013
311,	109.1,	99.5,	38,	3.32	,14:20:31	,10-Dec-2013
312,	2.9,	99.4,	38,	0.90	,14:21:31	,10-Dec-2013
313,	2.2,	99.4,	38,	0.66	,14:22:31	,10-Dec-2013
314,	13.0,	99.3,	38,	1.99	,14:23:31	,10-Dec-2013
315,	2.0,	99.2,	38,	0.54	,14:24:31	,10-Dec-2013
316,	4.7,	99.2,	38,	1.20	,14:25:31	,10-Dec-2013
317,	6.7,	99.2,	38,	1.23	,14:26:31	,10-Dec-2013
318,	10.2,	99.1,	38,	2.08	,14:27:31	,10-Dec-2013
319,	3.7,	99.1,	38,	0.99	,14:28:31	,10-Dec-2013
320,	44.8,	99.1,	38,	3.46	,14:29:31	,10-Dec-2013
321,	17.3,	99.0,	38,	2.62	,14:30:31	,10-Dec-2013
322,	4.7,	99.0,	39,	1.07	,14:31:31	,10-Dec-2013
323,	2.5,	99.0,	39,	0.65	,14:32:31	,10-Dec-2013
324,	4.9,	99.0,	38,	0.76	,14:33:31	,10-Dec-2013
325,	93.8,	98.9,	39,	3.58	,14:34:31	,10-Dec-2013
326,	14.8,	98.9,	39,	2.94	,14:35:31	,10-Dec-2013
327,	4.4,	98.9,	39,	1.19	,14:36:31	,10-Dec-2013
328,	2.1,	98.8,	39,	0.60	,14:37:31	,10-Dec-2013
329,	2.8,	98.9,	39,	0.62	,14:38:31	,10-Dec-2013
330,	2.7,	98.8,	39,	0.63	,14:39:31	,10-Dec-2013
331,	2.8,	98.8,	39,	0.52	,14:40:31	,10-Dec-2013
332,	3.5,	98.8,	39,	0.77	,14:41:31	,10-Dec-2013
333,	8.9,	98.7,	39,	1.83	,14:42:31	,10-Dec-2013
334,	19.8,	98.7,	40,	2.64	,14:43:31	,10-Dec-2013
335,	21.1,	98.7,	40,	3.15	,14:44:31	,10-Dec-2013
336,	11.2,	98.6,	40,	2.34	,14:45:31	,10-Dec-2013
337,	3.3,	98.6,	40,	0.73	,14:46:31	,10-Dec-2013
338,	17.7,	98.6,	40,	3.07	,14:47:31	,10-Dec-2013
339,	7.6,	98.5,	40,	1.82	,14:48:31	,10-Dec-2013
340,	2.2,	98.5,	40,	0.66	,14:49:31	,10-Dec-2013
341,	2.3,	98.4,	40,	0.51	,14:50:31	,10-Dec-2013
342,	2.5,	98.4,	40,	0.53	,14:51:31	,10-Dec-2013
343,	6.1,	98.3,	40,	1.22	,14:52:31	,10-Dec-2013
344,	2.3,	98.3,	40,	0.68	,14:53:31	,10-Dec-2013
345,	2.2,	98.2,	40,	0.61	,14:54:31	,10-Dec-2013
346,	2.1,	98.2,	40,	0.55	,14:55:31	,10-Dec-2013
347,	1.7,	98.2,	40,	0.47	,14:56:31	,10-Dec-2013
348,	2.0,	98.1,	40,	0.40	,14:57:31	,10-Dec-2013
349,	10.1,	98.1,	40,	1.40	,14:58:31	,10-Dec-2013
350,	2.8,	98.1,	40,	0.81	,14:59:31	,10-Dec-2013
351,	3.0,	98.2,	40,	0.68	,15:00:31	,10-Dec-2013
352,	2.0,	98.1,	39,	0.53	,15:01:31	,10-Dec-2013
353,	2.4,	98.1,	40,	0.65	,15:02:31	,10-Dec-2013
354,	2.7,	98.1,	40,	0.71	,15:03:31	,10-Dec-2013
355,	2.1,	98.1,	40,	0.64	,15:04:31	,10-Dec-2013
356,	2.3,	98.1,	40,	0.60	,15:05:31	,10-Dec-2013
357,	2.2,	98.1,	40,	0.48	,15:06:31	,10-Dec-2013
358,	5.2,	98.0,	39,	1.11	,15:07:31	,10-Dec-2013
359,	2.9,	98.0,	39,	0.73	,15:08:31	,10-Dec-2013

360,	2.1,	98.0,	39,	0.54	,15:09:31	,10-Dec-2013
361,	2.3,	98.0,	39,	0.62	,15:10:31	,10-Dec-2013
362,	2.5,	98.0,	39,	0.64	,15:11:31	,10-Dec-2013
363,	1.3,	98.0,	39,	0.44	,15:12:31	,10-Dec-2013
364,	1.6,	98.0,	39,	0.48	,15:13:31	,10-Dec-2013
365,	1.2,	98.0,	39,	0.44	,15:14:31	,10-Dec-2013
366,	2.8,	97.9,	38,	0.69	,15:15:31	,10-Dec-2013
367,	3.7,	97.9,	39,	0.90	,15:16:31	,10-Dec-2013
368,	2.2,	97.9,	39,	0.47	,15:17:31	,10-Dec-2013
369,	2.1,	97.8,	39,	0.38	,15:18:31	,10-Dec-2013
370,	2.0,	97.8,	39,	0.39	,15:19:31	,10-Dec-2013
371,	1.8,	97.8,	39,	0.44	,15:20:31	,10-Dec-2013
372,	1.9,	97.8,	39,	0.45	,15:21:31	,10-Dec-2013
373,	1.7,	97.8,	39,	0.43	,15:22:31	,10-Dec-2013
374,	1.4,	97.7,	39,	0.44	,15:23:31	,10-Dec-2013
375,	36.2,	97.7,	39,	1.90	,15:24:31	,10-Dec-2013

DataRAM4 SN# D788 Dev# 2 Tag# 55 start: 16-Dec-2013 09:09:31 interval: 00:01:00
(MASS)ug/m3
Temp (F)
Humidity (RH%)
Diameter (nm)
1,000
950
900
850
800
750
700
650
600
550
500
450
400
350
300
250
200
150
100
50
0
12/10/13 09:30:00
12/10/13 10:00:00
12/10/13 10:30:00
12/10/13 11:00:00
12/10/13 11:30:00
12/10/13 12:00:00
12/10/13 12:30:00
12/10/13 13:00:00
12/10/13 13:30:00
12/10/13 14:00:00
12/10/13 14:30:00
12/10/13 15:00:00

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DataRAM 4 SN#:D788 Dev#:2 Tag#:55 start:10-Dec-2013 09:09:31 interval:00:01:00
(MASS)ug/m3
Temp (F)
Humidity (RH%)
Diameter (nm)
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
36
38
40
42
44
46
48
50
52
12/10/13 09:30:00
12/10/13 10:00:00
12/10/13 10:30:00
12/10/13 11:00:00
12/10/13 11:30:00
12/10/13 12:00:00
12/10/13 12:30:00
12/10/13 13:00:00
12/10/13 13:30:00
12/10/13 14:00:00
12/10/13 14:30:00
12/10/13 15:00:00

(MASS)ug/m3
Temp (F)
Humidity (RH%)
Diameter (nm)
DataRAM4 SN# D788 Dev# 2 Tag# 55 start 10-Dec-2013 09:09:31 interval 00:01:00
4,000
3,800
3,600
3,400
3,200
3,000
2,800
2,600
2,400
2,200
2,000
1,800
1,600
1,400
1,200
1,000
800
600
400
200
0
12/10/13 09:30:00
12/10/13 10:00:00
12/10/13 10:30:00
12/10/13 11:00:00
12/10/13 11:30:00
12/10/13 12:00:00
12/10/13 12:30:00
12/10/13 13:00:00
12/10/13 13:30:00
12/10/13 14:00:00
12/10/13 14:30:00
12/10/13 15:00:00

ALTOL
Environmental Services, Inc.

P.O Box 359 Mercedita, PR 00715-0359

December 30, 2013

Mr. Benjamin Cintrón
Project Manager
Homeca Recycling

RE: AIR PARTICULATE MONITORING REPORT AT PUERTO RICO OLEFINES, PEÑUELAS, PR.

Dear Mr. Cintrón:

Altol Environmental Services, Inc., submits for your review the results obtained during the air particulates monitoring. These were performed following Altol operational procedures.

Altol's technician installed and removed the Data Ram-4 COM equipment from the Towers located at Puerto Rico Olefines in Peñuelas, PR. The equipment collected data every minute for approximately a eight (8) hour period. Also, during the installation and removal of the equipment the wind direction, wind velocity, weather and other conditions were documented as supplementary information. The wind velocity was measured using the Kestrell 4000 equipment.

Appendix 1 presents **Table 1** which summarizes the results of information collected at the towers. The data collected during this period indicated levels of particulate material (PM_{10}) that do not exceed the regulated limits of the United States Environmental Protection Agency (USEPA) of 150 $\mu g/m^3$ (40 CFR part 50) (**Appendix 2**). The information collected from each tower is presented in graphics in terms of mass and dates (**Appendix 3**).

The following Appendices present the tables and graphics results for mass ($\mu g/m^3$), temperature (^oF), relative humidity (RH) and diameter (nm), obtained from each Data Ram-4 COM equipment:

- **Appendix 4**, correspond to Tower # 1, December 12, 2013.
- **Appendix 5**, correspond to Tower # 2, December 12, 2013.

If you need any further information contact us at your earliest convenience at (787)-835-4242 or (787) 430-6141.

Statement of Authenticity,
Altol Environmental Services, Inc.

Certify that the results are complete and accurate

Cordially,

Carlos E. Ocasio Feliciano
Environmental Higiene

Parque Industrial Sabanetas ▫ Edificio M-1380 ▫ Ponce, PR 00715
Tel. (787) 835-4242 ▫ Fax (787) 835-2004

APPENDIX 1
FUGITIVE DUSTS SAMPLING AND TEST RESULTS

TABLE 1. FUGITIVE DUSTS SAMPLING AND ENVIRONMENTAL CONDITIONS

Air Monitoring Date	Air Monitoring Tower	Latitude and Longitude	Equipment Data Ram-4 COM						Equipment Kestrell Model 4000		Field Observation				Sampling Personnel
			Equipment Model/ID#	Start Time	Finish Time	Avg Mass ($\mu g/m^3$)	Regulatory Limits ($\mu g/m3$)	Avg Diameter (nm)	Wind Velocity Start Time (mph)	Wind Velocity Finish Time (mph)	Weather Condition Start Time	Weather Condition Finish Time	Wind Direction Start Time	Wind Direction Finish Time	
12/12/2013 12/12/2013	1		DR4/D788	9:06	15:18	0.92	150	0.35	3.0	4.8	Sunny	Cloudy	North West	North West	JS
12/12/2013 12/12/2013	2		DR4/D787	9:22	15:21	5.46	150	0.65	3.2	5.6	Sunny	Cloudy	North West	North West	JS

Standard Limit = 150 $\mu g/m^3$

Leyend

N/A - Not-Aplicable
RV - Robert Velazquez
JRR- Jaime Rivera Rivera
JR- Juan Rivera
JC- Jose Cruz
NH Nehemias Hernandez
JS- José Santos

Towers Location:

Tower #1: PR-503
Tower #2: Disposal Area 3A
Tower #3: Access Road #1
Tower #4: Laboratory Area

ALTOL
Environmental Services, Inc.
Statement of Authenticity,
Certify that the results are complete and accurate

Cordially,

Carlos E. Ocasio Feliciano
Environmental Higiene

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APPENDIX 2
USEPA REGULATION PARAMETER

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National Ambient Air Quality Standards (NAAQS)

The Clean Air Act, which was last amended in 1990, requires EPA to set National Ambient Air Quality Standards (40 CFR part 50) for pollutants considered harmful to public health and the environment. The Clean Air Act established two types of national air quality standards. *Primary standards* set limits to protect public health, including the health of "sensitive" populations such as asthmatics, children, and the elderly. *Secondary standards* set limits to protect public welfare, including protection against decreased visibility, damage to animals, crops, vegetation, and buildings.

The EPA Office of Air Quality Planning and Standards (OAQPS) has set National Ambient Air Quality Standards for six principal pollutants, which are called "criteria" pollutants. They are listed below. Units of measure for the standards are parts per million (ppm) by volume, milligrams per cubic meter of air (mg/m^3), and micrograms per cubic meter of air ($\mu g/m^3$).

National Ambient Air Quality Standards

	Primary Standards		Secondary Standards	
Pollutant	Level	Averaging Time	Level	Averaging Time
Carbon Monoxide	9 ppm (10 mg/m^3)	8-hour [1]	None	
	35 ppm (40 mg/m^3)	1-hour [1]		
Lead	0.15 $\mu g/m^3$ [2]	Rolling 3-Month Average	Same as Primary	
	1.5 $\mu g/m^3$	Quarterly Average	Same as Primary	
Nitrogen Dioxide	0.053 ppm (100 $\mu g/m^3$)	Annual (Arithmetic Mean)	Same as Primary	
Particulate Matter (PM_{10})	150 $\mu g/m^3$	24-hour [3]	Same as Primary	
Particulate Matter ($PM_{2.5}$)	15.0 $\mu g/m^3$	Annual [4] (Arithmetic Mean)	Same as Primary	
	35 $\mu g/m^3$	24-hour [5]	Same as Primary	
Ozone	0.075 ppm (2008 std)	8-hour [6]	Same as Primary	
	0.08 ppm (1997 std)	8-hour [7]	Same as Primary	
	0.12 ppm	1-hour [8] (Applies only in limited areas)	Same as Primary	
Sulfur Dioxide	0.03 ppm	Annual (Arithmetic Mean)	0.5 ppm (1300 $\mu g/m^3$)	3-hour [1]
	0.14 ppm	24-hour [1]		

[1] Not to be exceeded more than once per year.
[2] Final rule signed October 15, 2008.
[3] Not to be exceeded more than once per year on average over 3 years.
[4] To attain this standard, the 3-year average of the weighted annual mean PM2.5 concentrations from single or multiple community-oriented monitors must not exceed 15.0 $\mu g/m3$.
[5] To attain this standard, the 3-year average of the 98th percentile of 24-hour concentrations at each population-oriented monitor within an area must not exceed 35 $\mu g/m3$ (effective December 17, 2006).
[6] To attain this standard, the 3-year average of the fourth-highest daily maximum 8-hour average ozone concentrations measured at each monitor within an area over each year must not exceed 0.075 ppm. (effective May 27, 2008)
[7] (a) To attain this standard, the 3-year average of the fourth-highest daily maximum 8-hour average ozone concentrations measured at each monitor within an area over each year must not exceed 0.08 ppm.

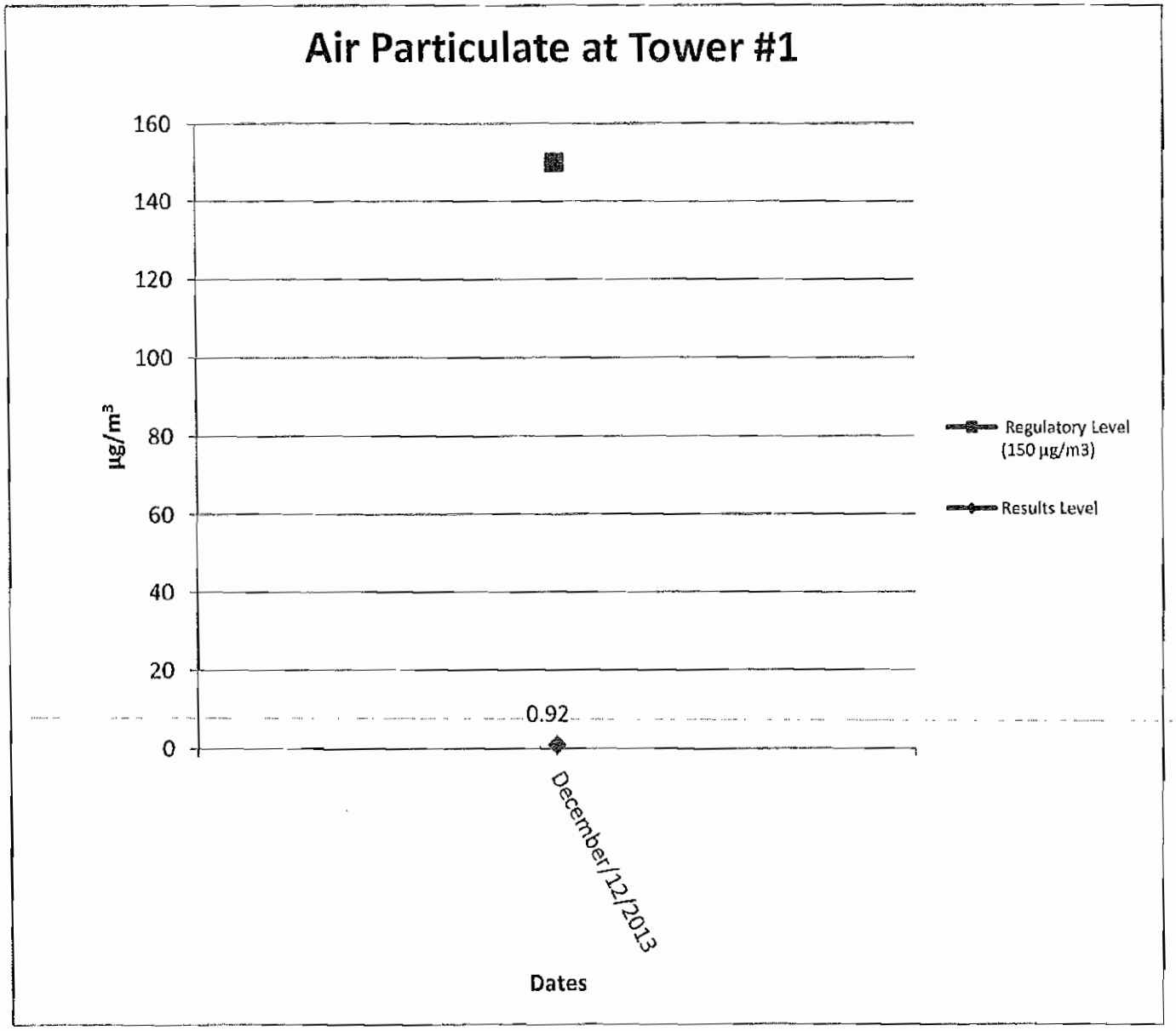
(b) The 1997 standard—and the implementation rules for that standard—will remain in place for implementation purposes as EPA undertakes rulemaking to address the transition from the 1997 ozone standard to the 2008 ozone standard.
[8] (a) The standard is attained when the expected number of days per calendar year with maximum hourly average concentrations above 0.12 ppm is ≤ 1.

(b) As of June 15, 2005 EPA revoked the 1-hour ozone standard in all areas except the 8-hour ozone nonattainment Early Action Compact (EAC) Areas.

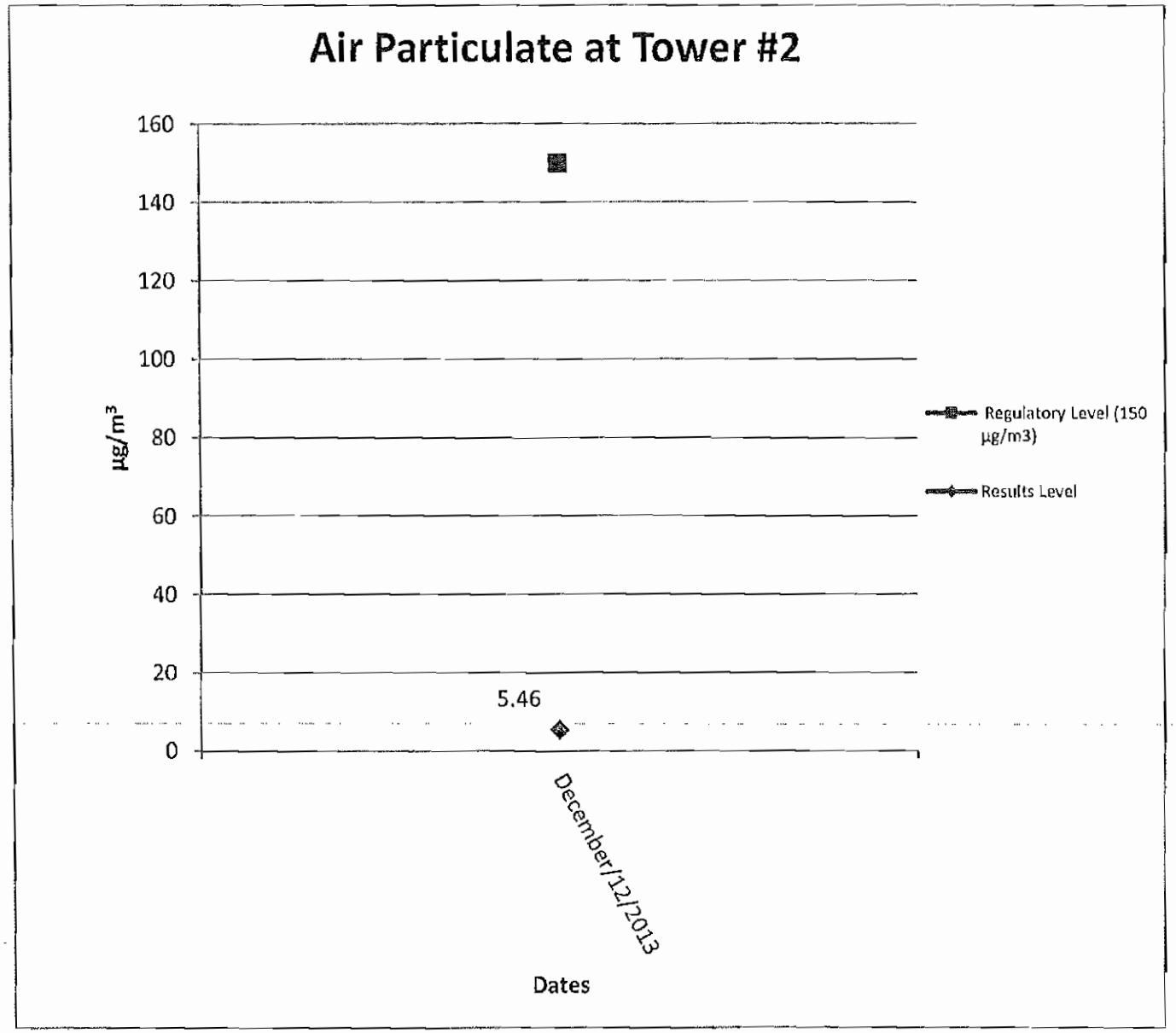
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APPENDIX 3
GRAPHICS OF MASS vs DATE

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APPENDIX 4
TOWER #1 AIR PARTICULATE MONITORING

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"Model Number", "DataRAM 4 ", 106
"Serial no. ", "D788 "
"Device no. ", 1
"Tag Number ", 56
"Start Time ", 09:05:23
"Start Date ", 12-Dec-2013
"Log Period ", 00:01:00
"Number ", 373
"CalFactor ", 1.000000
"Unit ", 0
"Unit Name ", "(MASS)ug/m3"
"SIZE_CORRECT", "ENABLED"
"TEMPUNITS ", F
"Max MASS ", 5.811739
"Max MASS @ ", 1 ,09:06:23 ,12-Dec-2013
"Avg MASS ", 0.916302
"Max Diam ", 0.432004
"Max Diam @ ", 349 ,14:54:23 ,12-Dec-2013
"Avg Diam ", 0.354559
"ALARM ", "DISABLED"
"ALARM_LEVEL ", 0.0
"AUTO_ZERO ", "DISABLED"
"AZ INTERVAL ", 1
"Errors ", 0000
record,"(MASS)ug/m3", Temp, RHumidity, Diameter

1,	5.8,	73.4,	47,	0.3830	,09:06:23 ,12-Dec-2013
2,	2.8,	73.9,	52,	0.4147	,09:07:23 ,12-Dec-2013
3,	2.1,	74.5,	56,	0.3897	,09:08:23 ,12-Dec-2013
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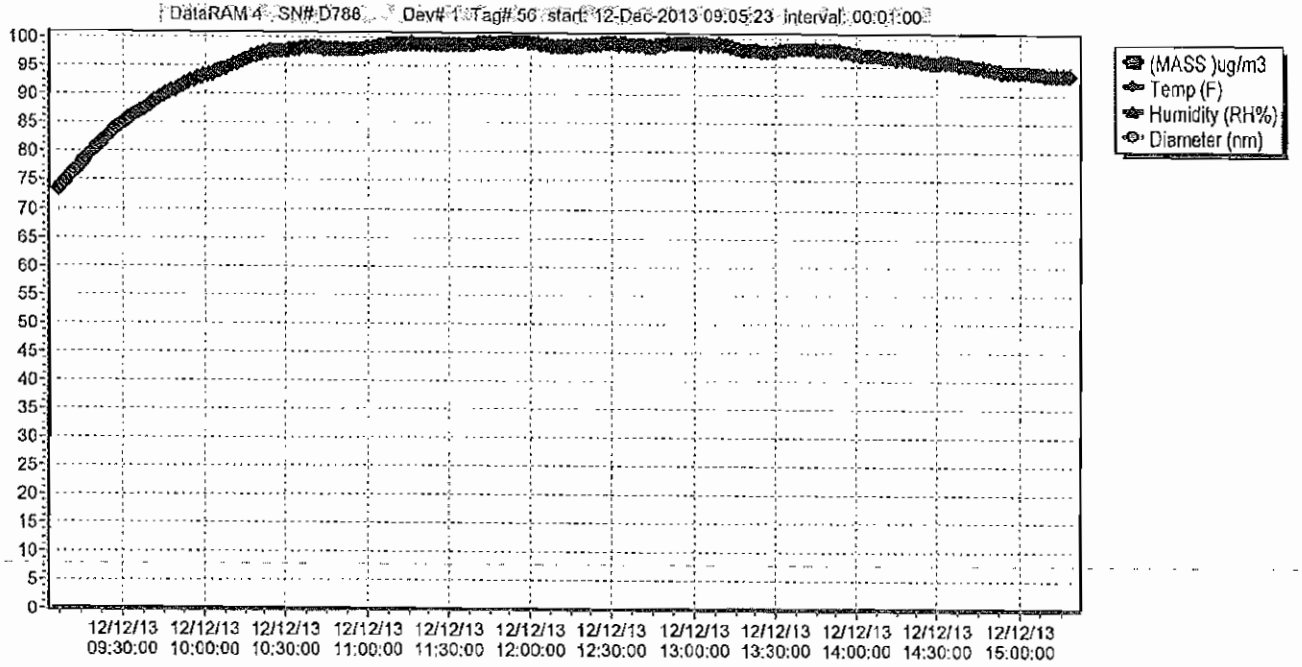
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224,	0.7,	99.0,	38,	0.3509	,12:49:23	,12-Dec-2013
225,	0.5,	99.1,	38,	0.3466	,12:50:23	,12-Dec-2013
226,	0.3,	99.2,	38,	0.3424	,12:51:23	,12-Dec-2013
227,	0.6,	99.2,	38,	0.3486	,12:52:23	,12-Dec-2013
228,	1.3,	99.2,	38,	0.3566	,12:53:23	,12-Dec-2013
229,	1.5,	99.1,	38,	0.3564	,12:54:23	,12-Dec-2013
230,	0.9,	99.1,	38,	0.3493	,12:55:23	,12-Dec-2013
231,	0.8,	99.1,	38,	0.3469	,12:56:23	,12-Dec-2013

232,	0.7,	99.2,	38,	0.3518	,12:57:23	,12-Dec-2013
233,	0.9,	99.1,	38,	0.3544	,12:58:23	,12-Dec-2013
234,	1.0,	99.1,	38,	0.3566	,12:59:23	,12-Dec-2013
235,	0.8,	99.1,	38,	0.3510	,13:00:23	,12-Dec-2013
236,	0.7,	99.1,	38,	0.3405	,13:01:23	,12-Dec-2013
237,	0.6,	99.0,	38,	0.3404	,13:02:23	,12-Dec-2013
238,	0.8,	99.1,	38,	0.3407	,13:03:23	,12-Dec-2013
239,	0.6,	99.1,	38,	0.3402	,13:04:23	,12-Dec-2013
240,	0.7,	99.0,	38,	0.3405	,13:05:23	,12-Dec-2013
241,	1.3,	99.0,	39,	0.3427	,13:06:23	,12-Dec-2013
242,	1.1,	99.0,	39,	0.3448	,13:07:23	,12-Dec-2013
243,	1.1,	99.0,	39,	0.3426	,13:08:23	,12-Dec-2013
244,	1.5,	99.1,	39,	0.3539	,13:09:23	,12-Dec-2013
245,	1.3,	99.0,	38,	0.3202	,13:10:23	,12-Dec-2013
246,	0.4,	98.9,	38,	0.3233	,13:11:23	,12-Dec-2013
247,	0.9,	98.8,	38,	0.3069	,13:12:23	,12-Dec-2013
248,	0.9,	98.7,	38,	0.3072	,13:13:23	,12-Dec-2013
249,	1.3,	98.6,	39,	0.2985	,13:14:23	,12-Dec-2013
250,	1.7,	98.4,	39,	0.2862	,13:15:23	,12-Dec-2013
251,	0.7,	98.2,	39,	0.3113	,13:16:23	,12-Dec-2013
252,	0.9,	98.1,	39,	0.3076	,13:17:23	,12-Dec-2013
253,	0.6,	98.0,	39,	0.3164	,13:18:23	,12-Dec-2013
254,	1.1,	98.0,	39,	0.3027	,13:19:23	,12-Dec-2013
255,	0.8,	97.9,	39,	0.3105	,13:20:23	,12-Dec-2013
256,	1.0,	97.9,	39,	0.3031	,13:21:23	,12-Dec-2013
257,	1.2,	97.9,	40,	0.2977	,13:22:23	,12-Dec-2013
258,	1.0,	97.9,	40,	0.3046	,13:23:23	,12-Dec-2013
259,	1.7,	97.8,	40,	0.2973	,13:24:23	,12-Dec-2013
260,	1.4,	97.8,	40,	0.3109	,13:25:23	,12-Dec-2013
261,	0.9,	97.8,	40,	0.3201	,13:26:23	,12-Dec-2013
262,	1.6,	97.8,	40,	0.3252	,13:27:23	,12-Dec-2013
263,	1.5,	97.7,	40,	0.3274	,13:28:23	,12-Dec-2013
264,	1.2,	97.8,	40,	0.3289	,13:29:23	,12-Dec-2013
265,	1.2,	97.8,	40,	0.3430	,13:30:23	,12-Dec-2013
266,	0.6,	97.9,	40,	0.3407	,13:31:23	,12-Dec-2013
267,	0.7,	97.9,	40,	0.3408	,13:32:23	,12-Dec-2013
268,	0.8,	98.0,	40,	0.3417	,13:33:23	,12-Dec-2013
269,	0.5,	98.2,	39,	0.3398	,13:34:23	,12-Dec-2013
270,	0.5,	98.3,	39,	0.3402	,13:35:23	,12-Dec-2013
271,	0.5,	98.3,	39,	0.3401	,13:36:23	,12-Dec-2013
272,	1.0,	98.3,	39,	0.3466	,13:37:23	,12-Dec-2013
273,	0.7,	98.3,	39,	0.3467	,13:38:23	,12-Dec-2013
274,	0.8,	98.3,	39,	0.3481	,13:39:23	,12-Dec-2013
275,	0.5,	98.3,	39,	0.3445	,13:40:23	,12-Dec-2013
276,	0.7,	98.3,	39,	0.3484	,13:41:23	,12-Dec-2013
277,	1.2,	98.2,	39,	0.3548	,13:42:23	,12-Dec-2013
278,	0.8,	98.2,	39,	0.3457	,13:43:23	,12-Dec-2013
279,	1.0,	98.2,	40,	0.3465	,13:44:23	,12-Dec-2013
280,	1.2,	98.1,	40,	0.3513	,13:45:23	,12-Dec-2013
281,	0.7,	98.1,	40,	0.3506	,13:46:23	,12-Dec-2013
282,	1.3,	98.1,	39,	0.3457	,13:47:23	,12-Dec-2013
283,	1.2,	98.1,	39,	0.3791	,13:48:23	,12-Dec-2013
284,	0.9,	98.0,	39,	0.3947	,13:49:23	,12-Dec-2013
285,	0.5,	98.0,	39,	0.3661	,13:50:23	,12-Dec-2013
286,	0.5,	98.0,	39,	0.3628	,13:51:23	,12-Dec-2013
287,	0.7,	97.9,	39,	0.3793	,13:52:23	,12-Dec-2013
288,	0.9,	97.9,	39,	0.3961	,13:53:23	,12-Dec-2013
289,	1.0,	97.7,	40,	0.3974	,13:54:23	,12-Dec-2013
290,	0.9,	97.7,	40,	0.3918	,13:55:23	,12-Dec-2013
291,	1.2,	97.6,	41,	0.4102	,13:56:23	,12-Dec-2013
292,	0.8,	97.6,	40,	0.3776	,13:57:23	,12-Dec-2013
293,	1.1,	97.5,	40,	0.4127	,13:58:23	,12-Dec-2013
294,	1.0,	97.4,	40,	0.4043	,13:59:23	,12-Dec-2013
295,	0.8,	97.3,	40,	0.3840	,14:00:23	,12-Dec-2013

296,	1.0,	97.2,	40,	0.3917	,14:01:23	,12-Dec-2013
297,	1.2,	97.2,	40,	0.3862	,14:02:23	,12-Dec-2013
298,	1.2,	97.1,	41,	0.3847	,14:03:23	,12-Dec-2013
299,	0.7,	97.1,	41,	0.3669	,14:04:23	,12-Dec-2013
300,	0.9,	97.1,	41,	0.3711	,14:05:23	,12-Dec-2013
301,	1.0,	97.2,	41,	0.3775	,14:06:23	,12-Dec-2013
302,	1.0,	97.2,	40,	0.3649	,14:07:23	,12-Dec-2013
303,	1.2,	97.1,	40,	0.3633	,14:08:23	,12-Dec-2013
304,	1.0,	97.0,	40,	0.3585	,14:09:23	,12-Dec-2013
305,	1.3,	97.0,	40,	0.3671	,14:10:23	,12-Dec-2013
306,	1.7,	96.9,	40,	0.3699	,14:11:23	,12-Dec-2013
307,	1.5,	96.8,	41,	0.3603	,14:12:23	,12-Dec-2013
308,	1.4,	96.8,	41,	0.3616	,14:13:23	,12-Dec-2013
309,	1.2,	96.7,	41,	0.3569	,14:14:23	,12-Dec-2013
310,	1.2,	96.7,	41,	0.3562	,14:15:23	,12-Dec-2013
311,	1.5,	96.6,	42,	0.3744	,14:16:23	,12-Dec-2013
312,	1.5,	96.6,	42,	0.3597	,14:17:23	,12-Dec-2013
313,	1.0,	96.5,	42,	0.3450	,14:18:23	,12-Dec-2013
314,	1.3,	96.5,	42,	0.3468	,14:19:23	,12-Dec-2013
315,	1.1,	96.4,	42,	0.3443	,14:20:23	,12-Dec-2013
316,	1.2,	96.4,	42,	0.3459	,14:21:23	,12-Dec-2013
317,	1.4,	96.3,	42,	0.3694	,14:22:23	,12-Dec-2013
318,	1.2,	96.2,	42,	0.3705	,14:23:23	,12-Dec-2013
319,	1.1,	96.1,	41,	0.4220	,14:24:23	,12-Dec-2013
320,	1.3,	96.0,	42,	0.4306	,14:25:23	,12-Dec-2013
321,	1.4,	95.9,	42,	0.4117	,14:26:23	,12-Dec-2013
322,	1.4,	95.8,	42,	0.4100	,14:27:23	,12-Dec-2013
323,	1.4,	95.8,	43,	0.4026	,14:28:23	,12-Dec-2013
324,	1.5,	95.8,	43,	0.4084	,14:29:23	,12-Dec-2013
325,	1.2,	95.8,	43,	0.3986	,14:30:23	,12-Dec-2013
326,	1.3,	95.9,	43,	0.3918	,14:31:23	,12-Dec-2013
327,	1.6,	95.9,	43,	0.3848	,14:32:23	,12-Dec-2013
328,	0.9,	95.9,	43,	0.3579	,14:33:23	,12-Dec-2013
329,	1.2,	95.9,	42,	0.3633	,14:34:23	,12-Dec-2013
330,	1.4,	95.8,	42,	0.3670	,14:35:23	,12-Dec-2013
331,	1.0,	95.8,	42,	0.3570	,14:36:23	,12-Dec-2013
332,	1.4,	95.6,	42,	0.3510	,14:37:23	,12-Dec-2013
333,	1.1,	95.5,	42,	0.3459	,14:38:23	,12-Dec-2013
334,	1.1,	95.4,	42,	0.3459	,14:39:23	,12-Dec-2013
335,	1.6,	95.3,	42,	0.3481	,14:40:23	,12-Dec-2013
336,	1.3,	95.3,	42,	0.3430	,14:41:23	,12-Dec-2013
337,	1.3,	95.3,	43,	0.3454	,14:42:23	,12-Dec-2013
338,	1.3,	95.2,	43,	0.3419	,14:43:23	,12-Dec-2013
339,	1.2,	95.1,	43,	0.3499	,14:44:23	,12-Dec-2013
340,	1.5,	95.0,	43,	0.3646	,14:45:23	,12-Dec-2013
341,	1.6,	95.0,	43,	0.3566	,14:46:23	,12-Dec-2013
342,	1.3,	94.9,	43,	0.3430	,14:47:23	,12-Dec-2013
343,	1.5,	94.8,	43,	0.3416	,14:48:23	,12-Dec-2013
344,	1.5,	94.7,	44,	0.3751	,14:49:23	,12-Dec-2013
345,	1.4,	94.6,	44,	0.3769	,14:50:23	,12-Dec-2013
346,	1.9,	94.5,	44,	0.3945	,14:51:23	,12-Dec-2013
347,	2.0,	94.4,	44,	0.3886	,14:52:23	,12-Dec-2013
348,	1.6,	94.3,	44,	0.4057	,14:53:23	,12-Dec-2013
349,	1.6,	94.3,	44,	0.4320	,14:54:23	,12-Dec-2013
350,	1.6,	94.2,	45,	0.4178	,14:55:23	,12-Dec-2013
351,	1.2,	94.1,	45,	0.3900	,14:56:23	,12-Dec-2013
352,	1.2,	94.1,	45,	0.3996	,14:57:23	,12-Dec-2013
353,	1.3,	94.2,	45,	0.3841	,14:58:23	,12-Dec-2013
354,	0.9,	94.2,	44,	0.3603	,14:59:23	,12-Dec-2013
355,	1.0,	94.2,	44,	0.3634	,15:00:23	,12-Dec-2013
356,	1.1,	94.2,	44,	0.3656	,15:01:23	,12-Dec-2013
357,	1.0,	94.1,	43,	0.3646	,15:02:23	,12-Dec-2013
358,	0.9,	94.1,	43,	0.3602	,15:03:23	,12-Dec-2013
359,	0.9,	94.0,	43,	0.3592	,15:04:23	,12-Dec-2013

360,	0.8,	94.0,	42,	0.3643	,15:05:23	,12-Dec-2013
361,	0.5,	94.0,	42,	0.3565	,15:06:23	,12-Dec-2013
362,	1.0,	93.9,	42,	0.3707	,15:07:23	,12-Dec-2013
363,	1.2,	93.8,	42,	0.3813	,15:08:23	,12-Dec-2013
364,	0.6,	93.7,	42,	0.3593	,15:09:23	,12-Dec-2013
365,	1.0,	93.7,	42,	0.3773	,15:10:23	,12-Dec-2013
366,	0.7,	93.6,	42,	0.3657	,15:11:23	,12-Dec-2013
367,	0.7,	93.6,	42,	0.3722	,15:12:23	,12-Dec-2013
368,	0.8,	93.6,	42,	0.3786	,15:13:23	,12-Dec-2013
369,	0.9,	93.5,	42,	0.4098	,15:14:23	,12-Dec-2013
370,	0.9,	93.6,	42,	0.4017	,15:15:23	,12-Dec-2013
371,	0.8,	93.6,	42,	0.3950	,15:16:23	,12-Dec-2013
372,	0.6,	93.5,	42,	0.3721	,15:17:23	,12-Dec-2013
373,	1.0,	93.5,	42,	0.3937	,15:18:23	,12-Dec-2013

CONFIDENTIAL - SUBJECT TO PROTECTIVE ORDER



CONFIDENTIAL

DataRAM 4 SN# D788 Dev# 1 Tag# 56 start: 12-Dec-2013 09:05:23 Interval: 00:01:00
(MASS)ug/m3
Temp (F)
Humidity (RH%)
Diameter (nm)
60
55
50
45
40
35
30
25
20
15
10
5
0
12/12/13 09:30:00
12/12/13 10:00:00
12/12/13 10:30:00
12/12/13 11:00:00
12/12/13 11:30:00
12/12/13 12:00:00
12/12/13 12:30:00
12/12/13 13:00:00
12/12/13 13:30:00
12/12/13 14:00:00
12/12/13 14:30:00
12/12/13 15:00:00

DataRAM 4 SN# D788 Dev#:1 Tag#:56 start: 12-Dec-2013 09:05:23 interval: 00:01:00
(MASS ug/m3
Temp (F)
Humidity (RH%)
Diameter (nm)
420
400
380
360
340
320
300
280
260
240
220
200
180
160
140
120
100
80
60
40
20
0
12/12/13 09:30:00
12/12/13 10:00:00
12/12/13 10:30:00
12/12/13 11:00:00
12/12/13 11:30:00
12/12/13 12:00:00
12/12/13 12:30:00
12/12/13 13:00:00
12/12/13 13:30:00
12/12/13 14:00:00
12/12/13 14:30:00
12/12/13 15:00:00

APPENDIX 5
TOWER #2 AIR PARTICULATE MONITORING

"Model Number", "DataRAM 4 ", 106
"Serial no. ", "D787   "
"Device no. ", 2
"Tag Number ", 64
"Start Time ", 09:21:11
"Start Date ", 12-Dec-2013
"Log Period ", 00:01:00
"Number   ", 360
"CalFactor   ", 1.000000
"Unit   ", 0
"Unit Name   ", "(MASS)ug/m3"
"SIZE_CORRECT", "ENABLED"
"TEMPUNITS   ", F
"Max MASS   ", 222.373400
"Max MASS @ ", 100 ,11:01:11 ,12-Dec-2013
"Avg MASS   ", 5.464175
"Max Diam   ", 4.127007
"Max Diam @ ", 100 ,11:01:11 ,12-Dec-2013
"Avg Diam   ", 0.652167
"ALARM   ", "DISABLED"
"ALARM_LEVEL ", 0.0
"AUTO_ZERO   ", "DISABLED"
"AZ INTERVAL ", 1
"Errors   ", 0000
record,"(MASS)ug/m3", Temp, RHumidity, Diameter

1,	4.2,	73.7,	47,	0.4165	,09:22:11	,12-Dec-2013
2,	2.9,	74.3,	51,	0.4309	,09:23:11	,12-Dec-2013
3,	2.7,	74.8,	55,	0.4515	,09:24:11	,12-Dec-2013
4,	2.5,	75.4,	57,	0.4569	,09:25:11	,12-Dec-2013
5,	2.4,	76.0,	58,	0.4578	,09:26:11	,12-Dec-2013
6,	2.4,	76.6,	59,	0.4834	,09:27:11	,12-Dec-2013
7,	2.3,	77.1,	60,	0.4858	,09:28:11	,12-Dec-2013
8,	2.2,	77.7,	60,	0.4559	,09:29:11	,12-Dec-2013
9,	2.3,	78.2,	60,	0.4117	,09:30:11	,12-Dec-2013
10,	2.1,	78.9,	60,	0.3544	,09:31:11	,12-Dec-2013
11,	2.4,	79.4,	60,	0.3781	,09:32:11	,12-Dec-2013
12,	2.3,	79.9,	59,	0.4129	,09:33:11	,12-Dec-2013
13,	2.2,	80.4,	59,	0.4513	,09:34:11	,12-Dec-2013
14,	2.3,	80.9,	58,	0.4184	,09:35:11	,12-Dec-2013
15,	2.5,	81.4,	58,	0.3987	,09:36:11	,12-Dec-2013
16,	2.6,	81.8,	57,	0.3789	,09:37:11	,12-Dec-2013
17,	2.3,	82.3,	57,	0.3358	,09:38:11	,12-Dec-2013
18,	2.3,	82.7,	56,	0.3492	,09:39:11	,12-Dec-2013
19,	2.2,	83.1,	56,	0.3800	,09:40:11	,12-Dec-2013
20,	2.2,	83.5,	55,	0.4147	,09:41:11	,12-Dec-2013
21,	2.1,	83.9,	55,	0.4367	,09:42:11	,12-Dec-2013
22,	2.2,	84.3,	54,	0.4138	,09:43:11	,12-Dec-2013
23,	1.9,	84.6,	54,	0.4278	,09:44:11	,12-Dec-2013
24,	2.1,	85.0,	53,	0.4123	,09:45:11	,12-Dec-2013
25,	2.0,	85.3,	53,	0.4092	,09:46:11	,12-Dec-2013
26,	2.3,	85.6,	52,	0.3990	,09:47:11	,12-Dec-2013
27,	2.1,	86.0,	52,	0.4216	,09:48:11	,12-Dec-2013
28,	1.8,	86.2,	52,	0.3965	,09:49:11	,12-Dec-2013
29,	2.0,	86.4,	51,	0.3830	,09:50:11	,12-Dec-2013
30,	2.1,	86.8,	51,	0.3478	,09:51:11	,12-Dec-2013
31,	2.0,	87.1,	51,	0.3384	,09:52:11	,12-Dec-2013
32,	1.9,	87.4,	50,	0.3447	,09:53:11	,12-Dec-2013
33,	1.7,	87.8,	50,	0.3614	,09:54:11	,12-Dec-2013
34,	1.9,	88.0,	50,	0.3583	,09:55:11	,12-Dec-2013
35,	1.6,	88.3,	49,	0.3550	,09:56:11	,12-Dec-2013
36,	1.8,	88.6,	49,	0.3569	,09:57:11	,12-Dec-2013
37,	2.2,	88.9,	49,	0.3817	,09:58:11	,12-Dec-2013
38,	1.7,	89.2,	49,	0.3995	,09:59:11	,12-Dec-2013
39,	1.6,	89.6,	48,	0.4267	,10:00:11	,12-Dec-2013

40,	1.7,	89.9,	48,	0.3895	,10:01:11	,12-Dec-2013
41,	1.7,	90.2,	48,	0.3756	,10:02:11	,12-Dec-2013
42,	2.0,	90.6,	48,	0.3726	,10:03:11	,12-Dec-2013
43,	2.0,	90.9,	48,	0.3617	,10:04:11	,12-Dec-2013
44,	1.4,	91.3,	47,	0.3416	,10:05:11	,12-Dec-2013
45,	2.1,	91.6,	47,	0.3524	,10:06:11	,12-Dec-2013
46,	1.9,	92.0,	47,	0.4216	,10:07:11	,12-Dec-2013
47,	1.5,	92.4,	46,	0.3473	,10:08:11	,12-Dec-2013
48,	1.7,	92.7,	46,	0.3450	,10:09:11	,12-Dec-2013
49,	2.2,	92.9,	45,	0.3522	,10:10:11	,12-Dec-2013
50,	2.3,	93.3,	45,	0.3522	,10:11:11	,12-Dec-2013
51,	2.0,	93.6,	45,	0.4124	,10:12:11	,12-Dec-2013
52,	1.4,	93.9,	44,	0.3954	,10:13:11	,12-Dec-2013
53,	2.1,	94.2,	44,	0.4471	,10:14:11	,12-Dec-2013
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71,	2.1,	97.5,	40,	0.4448	,10:32:11	,12-Dec-2013
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88,	1.9,	99.7,	38,	0.3481	,10:49:11	,12-Dec-2013
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136,	1.3,	101.6,	32,	0.4365	,11:37:11	,12-Dec-2013
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138,	1.1,	101.6,	31,	0.3642	,11:39:11	,12-Dec-2013
139,	0.7,	101.6,	31,	0.3547	,11:40:11	,12-Dec-2013
140,	0.5,	101.6,	31,	0.3486	,11:41:11	,12-Dec-2013
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277,	0.9,	102.1,	34,	0.3652	,13:58:11	,12-Dec-2013
278,	0.8,	102.1,	34,	0.3556	,13:59:11	,12-Dec-2013
279,	8.0,	102.1,	35,	0.9604	,14:00:11	,12-Dec-2013
280,	4.4,	102.1,	35,	0.9582	,14:01:11	,12-Dec-2013
281,	1.9,	102.1,	35,	0.4502	,14:02:11	,12-Dec-2013
282,	1.3,	102.1,	35,	0.3793	,14:03:11	,12-Dec-2013
283,	1.1,	102.0,	35,	0.3762	,14:04:11	,12-Dec-2013
284,	1.2,	102.0,	34,	0.3811	,14:05:11	,12-Dec-2013
285,	1.4,	101.8,	34,	0.3885	,14:06:11	,12-Dec-2013
286,	0.8,	101.8,	34,	0.3495	,14:07:11	,12-Dec-2013
287,	1.9,	101.7,	34,	0.4288	,14:08:11	,12-Dec-2013
288,	2.1,	101.7,	34,	0.4746	,14:09:11	,12-Dec-2013
289,	2.0,	101.6,	35,	0.5038	,14:10:11	,12-Dec-2013
290,	2.6,	101.6,	35,	0.5880	,14:11:11	,12-Dec-2013
291,	1.1,	101.5,	35,	0.4792	,14:12:11	,12-Dec-2013
292,	1.4,	101.4,	35,	0.4645	,14:13:11	,12-Dec-2013
293,	1.7,	101.3,	35,	0.4420	,14:14:11	,12-Dec-2013
294,	1.3,	101.2,	35,	0.3475	,14:15:11	,12-Dec-2013
295,	1.0,	101.1,	35,	0.3438	,14:16:11	,12-Dec-2013

296,	1.2,	100.9,	35,	0.3416	,14:17:11	,12-Dec-2013
297,	1.6,	100.9,	35,	0.3440	,14:18:11	,12-Dec-2013
298,	1.5,	100.9,	35,	0.3333	,14:19:11	,12-Dec-2013
299,	1.7,	100.8,	35,	0.3308	,14:20:11	,12-Dec-2013
300,	1.3,	100.7,	35,	0.3281	,14:21:11	,12-Dec-2013
301,	1.2,	100.7,	35,	0.3286	,14:22:11	,12-Dec-2013
302,	4.5,	100.6,	35,	0.8345	,14:23:11	,12-Dec-2013
303,	2.6,	100.5,	36,	0.8639	,14:24:11	,12-Dec-2013
304,	1.6,	100.5,	36,	0.4333	,14:25:11	,12-Dec-2013
305,	1.3,	100.4,	36,	0.3790	,14:26:11	,12-Dec-2013
306,	1.3,	100.3,	36,	0.3874	,14:27:11	,12-Dec-2013
307,	1.3,	100.3,	36,	0.4011	,14:28:11	,12-Dec-2013
308,	2.3,	100.3,	36,	0.4940	,14:29:11	,12-Dec-2013
309,	0.9,	100.1,	36,	0.3852	,14:30:11	,12-Dec-2013
310,	1.5,	100.0,	36,	0.4171	,14:31:11	,12-Dec-2013
311,	1.6,	99.9,	36,	0.3999	,14:32:11	,12-Dec-2013
312,	12.0,	99.8,	36,	1.4964	,14:33:11	,12-Dec-2013
313,	1.9,	99.8,	36,	0.6153	,14:34:11	,12-Dec-2013
314,	1.6,	99.8,	36,	0.5181	,14:35:11	,12-Dec-2013
315,	1.5,	99.7,	36,	0.5425	,14:36:11	,12-Dec-2013
316,	1.6,	99.7,	36,	0.5012	,14:37:11	,12-Dec-2013
317,	1.5,	99.6,	36,	0.4111	,14:38:11	,12-Dec-2013
318,	1.2,	99.6,	36,	0.3725	,14:39:11	,12-Dec-2013
319,	1.1,	99.6,	36,	0.3793	,14:40:11	,12-Dec-2013
320,	1.6,	99.5,	37,	0.4108	,14:41:11	,12-Dec-2013
321,	1.6,	99.5,	36,	0.4302	,14:42:11	,12-Dec-2013
322,	1.1,	99.5,	37,	0.4116	,14:43:11	,12-Dec-2013
323,	1.2,	99.4,	37,	0.4184	,14:44:11	,12-Dec-2013
324,	1.4,	99.4,	36,	0.4338	,14:45:11	,12-Dec-2013
325,	1.3,	99.3,	37,	0.4296	,14:46:11	,12-Dec-2013
326,	1.2,	99.2,	37,	0.4022	,14:47:11	,12-Dec-2013
327,	1.4,	99.1,	37,	0.3963	,14:48:11	,12-Dec-2013
328,	1.6,	98.9,	37,	0.3905	,14:49:11	,12-Dec-2013
329,	1.5,	98.9,	37,	0.3797	,14:50:11	,12-Dec-2013
330,	1.3,	98.8,	37,	0.3880	,14:51:11	,12-Dec-2013
331,	1.4,	98.7,	37,	0.4057	,14:52:11	,12-Dec-2013
332,	1.2,	98.7,	38,	0.3932	,14:53:11	,12-Dec-2013
333,	1.5,	98.5,	38,	0.3856	,14:54:11	,12-Dec-2013
334,	3.5,	98.5,	38,	0.3653	,14:55:11	,12-Dec-2013
335,	1.7,	98.4,	38,	0.3777	,14:56:11	,12-Dec-2013
336,	1.6,	98.3,	38,	0.3890	,14:57:11	,12-Dec-2013
337,	1.6,	98.2,	38,	0.3972	,14:58:11	,12-Dec-2013
338,	1.6,	98.1,	38,	0.3996	,14:59:11	,12-Dec-2013
339,	1.7,	98.0,	39,	0.3957	,15:00:11	,12-Dec-2013
340,	1.2,	98.0,	39,	0.3814	,15:01:11	,12-Dec-2013
341,	3.6,	98.0,	39,	0.5773	,15:02:11	,12-Dec-2013
342,	4.7,	97.9,	38,	1.0682	,15:03:11	,12-Dec-2013
343,	1.7,	97.8,	38,	0.5386	,15:04:11	,12-Dec-2013
344,	2.0,	97.8,	38,	0.4300	,15:05:11	,12-Dec-2013
345,	1.6,	97.8,	38,	0.4297	,15:06:11	,12-Dec-2013
346,	1.3,	97.8,	38,	0.4502	,15:07:11	,12-Dec-2013
347,	1.1,	97.8,	38,	0.4443	,15:08:11	,12-Dec-2013
348,	0.9,	97.7,	38,	0.4207	,15:09:11	,12-Dec-2013
349,	1.1,	97.7,	37,	0.4207	,15:10:11	,12-Dec-2013
350,	0.4,	97.6,	37,	0.3651	,15:11:11	,12-Dec-2013
351,	1.1,	97.5,	37,	0.4057	,15:12:11	,12-Dec-2013
352,	1.2,	97.4,	37,	0.3930	,15:13:11	,12-Dec-2013
353,	3.2,	97.4,	36,	0.5930	,15:14:11	,12-Dec-2013
354,	1.0,	97.3,	36,	0.4382	,15:15:11	,12-Dec-2013
355,	1.4,	97.3,	36,	0.5073	,15:16:11	,12-Dec-2013
356,	2.9,	97.2,	36,	0.5906	,15:17:11	,12-Dec-2013
357,	0.9,	97.2,	37,	0.4238	,15:18:11	,12-Dec-2013
358,	1.1,	97.1,	36,	0.4324	,15:19:11	,12-Dec-2013
359,	0.6,	97.1,	36,	0.3800	,15:20:11	,12-Dec-2013

360, 2.9, 97.1, 36, 0.7013 ,15:21:11 ,12-Dec-2013

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DataRAM 4 SN# 0787 Det#2 Tag# 64 Start: 12-Dec-2013 09:21:11 Interval: 00:01:00
(MASS) µg/m3
Temp (F)
Humidity (RH%)
Diameter (nm)
60
55
50
45
40
35
30
25
20
15
10
5
0
12/12/13 09:30:00
12/12/13 10:00:00
12/12/13 10:30:00
12/12/13 11:00:00
12/12/13 11:30:00
12/12/13 12:00:00
12/12/13 12:30:00
12/12/13 13:00:00
12/12/13 13:30:00
12/12/13 14:00:00
12/12/13 14:30:00
12/12/13 15:00:00

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ALTOL
Environmental Services, Inc.

P.O Box 359 Mercedita, PR 00715-0359

December 30, 2013

Mr. Benjamin Cintrón
Project Manager
Homeca Recycling

RE: AIR PARTICULATE MONITORING REPORT AT PUERTO RICO OLEFINES, PEÑUELAS, PR.

Dear Mr. Cintrón:

Altol Environmental Services, Inc., submits for your review the results obtained during the air particulates monitoring. These were performed following Altol operational procedures.

Altol's technician installed and removed the Data Ram-4 COM equipment from the Towers located at Puerto Rico Olefines in Peñuelas, PR. The equipment collected data every minute for approximately a eight (8) hour period. Also, during the installation and removal of the equipment the wind direction, wind velocity, weather and other conditions were documented as supplementary information. The wind velocity was measured using the Kestrell 4000 equipment.

Appendix 1 presents **Table 1** which summarizes the results of information collected at the towers. The data collected during this period indicated levels of particulate material (PM_{10}) that do not exceed the regulated limits of the United States Environmental Protection Agency (USEPA) of 150 $\mu g/m^3$ (40 CFR part 50) (**Appendix 2**). The information collected from each tower is presented in graphics in terms of mass and dates (**Appendix 3**).

The following Appendices present the tables and graphics results for mass ($\mu g/m^3$), temperature (^oF), relative humidity (RH) and diameter (nm), obtained from each Data Ram-4 COM equipment:

- **Appendix 4**, correspond to Tower # 1, December 13, 2013.
- **Appendix 5**, correspond to Tower # 2, December 13, 2013.

If you need any further information contact us at your earliest convenience at (787)-835-4242 or (787) 430-6141.

Statement of Authenticity,
Altol Environmental Services, Inc.

Certify that the results are complete and accurate

Cordially,

Carlos E. Ocasio Feliciano
Environmental Higiene

Parque Industrial Sabanetas ▪ Edificio M-1380 ▪ Ponce, PR 00715
Tel. (787) 835-4242 ▪ Fax (787) 835-2004

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APPENDIX 1
FUGITIVE DUSTS SAMPLING AND TEST RESULTS

TABLE 1. FUGITIVE DUSTS SAMPLING AND ENVIRONMENTAL CONDITIONS

Air Monitoring Date	Air Monitoring Tower	Latitude and Longitude	Equipment Data Ram-4 COM						Equipment Kestrell Model 4000		Field Observation				Sampling Personnel
			Equipment Model/ID#	Start Time	Finish Time	Avg Mass ($\mu g/m^3$)	Regulatory Limits ($\mu g/m3$)	Avg Diameter (nm)	Wind Velocity Start Time (mph)	Wind Velocity Finish Time (mph)	Weather Condition Start Time	Weather Condition Finish Time	Wind Direction Start Time	Wind Direction Finish Time	
12/13/2013 12/13/2013	1		DR4/D787	8:43	14:53	1.42	150	0.35	4.3	5.2	Sunny	Cloudy	North West	North West	JS
12/13/2013 12/13/2013	2		DR4/D788	9:05	13:24	11.39	150	0.77	5.4	4.6	Sunny	Cloudy	North West	North West	JS

Standard Limit = 150 $\mu g/m^3$

Leyend

N/A - Not Aplicable
RV - Robert Velazquez
JRR- Jaime Rivera Rivera
JR- Juan Rivera
JC- Jose Cruz
NH Nehemias Hernandez
JS- José Santos

Towers Location:

Tower #1: PR-503
Tower #2: Disposal Area 3A
Tower #3: Access Road #1
Tower #4: Laboratory Area

ALTOL
Environmental Services, Inc.

Statement of Authenticity,
Certify that the results are complete and accurate

Cordially,

Carlos E. Ocasio Feliciano
Environmental Higiene

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APPENDIX 2
USEPA REGULATION PARAMETER

National Ambient Air Quality Standards (NAAQS)

The Clean Air Act, which was last amended in 1990, requires EPA to set National Ambient Air Quality Standards (40 CFR part 50) for pollutants considered harmful to public health and the environment. The Clean Air Act established two types of national air quality standards. *Primary standards* set limits to protect public health, including the health of "sensitive" populations such as asthmatics, children, and the elderly. *Secondary standards* set limits to protect public welfare, including protection against decreased visibility, damage to animals, crops, vegetation, and buildings.

The EPA Office of Air Quality Planning and Standards (OAQPS) has set National Ambient Air Quality Standards for six principal pollutants, which are called "criteria" pollutants. They are listed below. Units of measure for the standards are parts per million (ppm) by volume, milligrams per cubic meter of air (mg/m^3), and micrograms per cubic meter of air ($\mu g/m^3$).

National Ambient Air Quality Standards

	Primary Standards		Secondary Standards	
Pollutant	Level	Averaging Time	Level	Averaging Time
Carbon Monoxide	9 ppm (10 mg/m^3)	8-hour [1]	None	
	35 ppm (40 mg/m^3)	1-hour [1]		
Lead	0.15 $\mu g/m^3$ [2]	Rolling 3-Month Average	Same as Primary	
	1.5 $\mu g/m^3$	Quarterly Average	Same as Primary	
Nitrogen Dioxide	0.053 ppm (100 $\mu g/m^3$)	Annual (Arithmetic Mean)	Same as Primary	
Particulate Matter (PM_{10})	150 $\mu g/m^3$	24-hour [3]	Same as Primary	
Particulate Matter ($PM_{2.5}$)	15.0 $\mu g/m^3$	Annual [4] (Arithmetic Mean)	Same as Primary	
	35 $\mu g/m^3$	24-hour [5]	Same as Primary	
Ozone	0.075 ppm (2008 std)	8-hour [6]	Same as Primary	
	0.08 ppm (1997 std)	8-hour [7]	Same as Primary	
	0.12 ppm	1-hour [8] (Applies only in limited areas)	Same as Primary	
Sulfur Dioxide	0.03 ppm	Annual (Arithmetic Mean)	0.5 ppm (1300 $\mu g/m^3$)	3-hour [1]
	0.14 ppm	24-hour [1]		

[1] Not to be exceeded more than once per year.

[2] Final rule signed October 15, 2008.

[3] Not to be exceeded more than once per year on average over 3 years.

[4] To attain this standard, the 3-year average of the weighted annual mean PM2.5 concentrations from single or multiple community-oriented monitors must not exceed 15.0 $\mu g/m3$.

[5] To attain this standard, the 3-year average of the 98th percentile of 24-hour concentrations at each population-oriented monitor within an area must not exceed 35 $\mu g/m3$ (effective December 17, 2006).

[6] To attain this standard, the 3-year average of the fourth-highest daily maximum 8-hour average ozone concentrations measured at each monitor within an area over each year must not exceed 0.075 ppm. (effective May 27, 2008)

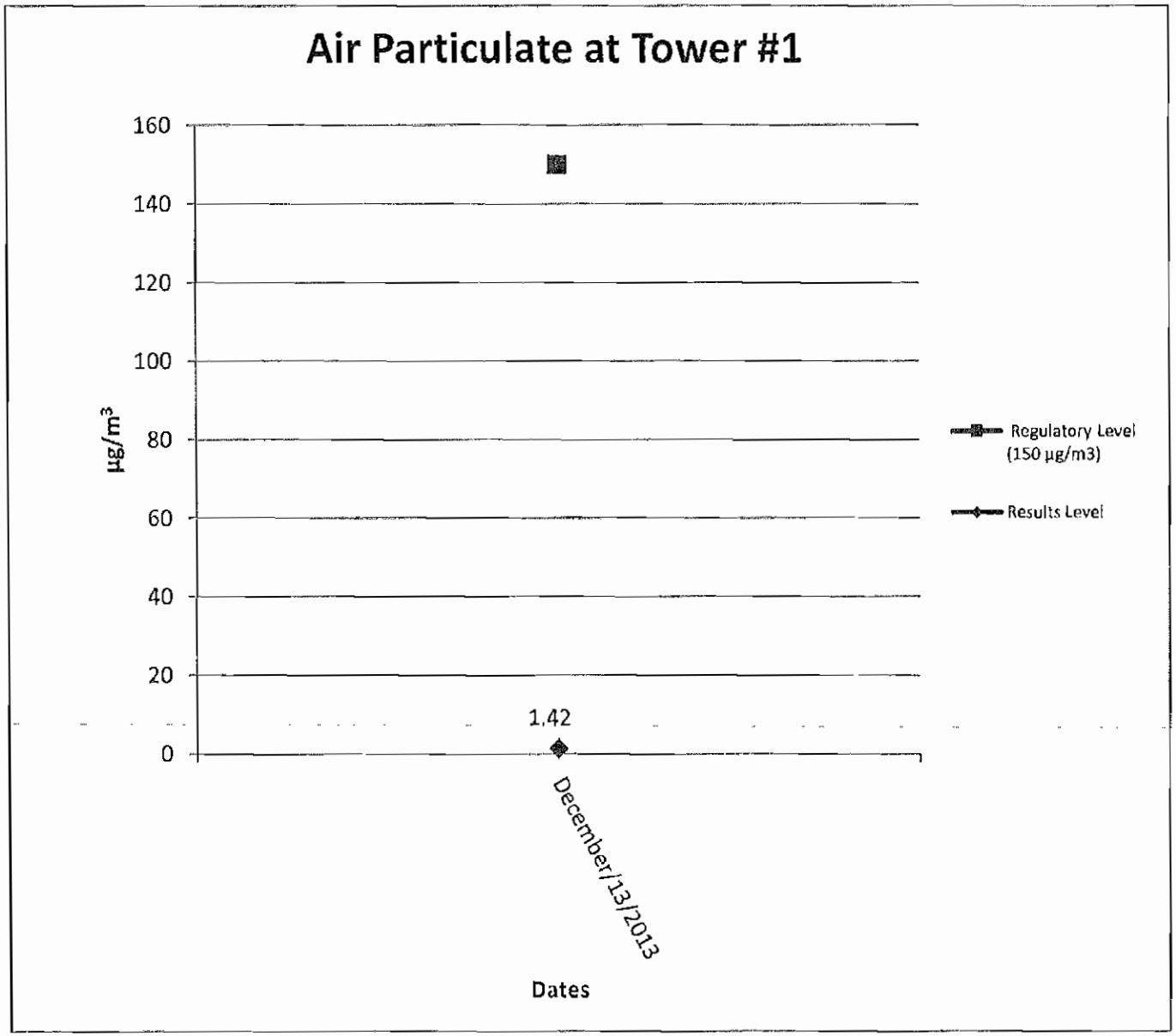
[7] (a) To attain this standard, the 3-year average of the fourth-highest daily maximum 8-hour average ozone concentrations measured at each monitor within an area over each year must not exceed 0.08 ppm.

(b) The 1997 standard—and the implementation rules for that standard—will remain in place for implementation purposes as EPA undertakes rulemaking to address the transition from the 1997 ozone standard to the 2008 ozone standard.

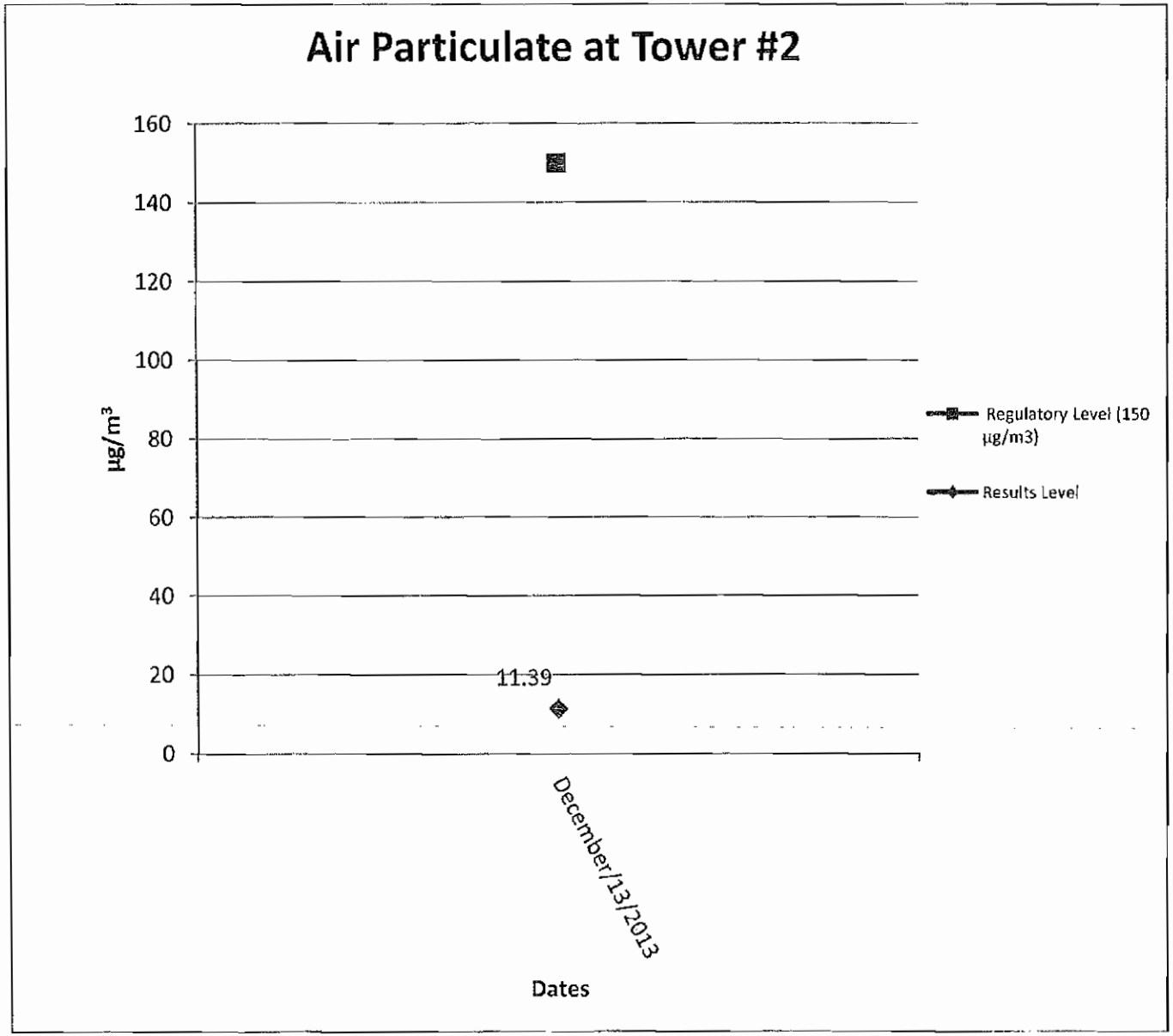
[8] (a) The standard is attained when the expected number of days per calendar year with maximum hourly average concentrations above 0.12 ppm is ≤ 1.

(b) As of June 15, 2005 EPA revoked the 1-hour ozone standard in all areas except the 8-hour ozone nonattainment Early Action Compact (EAC) Areas.

APPENDIX 3
GRAPHICS OF MASS vs DATE



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APPENDIX 4
TOWER #1 AIR PARTICULATE MONITORING

"Model Number", "DataRAM 4 ", 106
"Serial no. ", "D787 "
"Device no. ", 1
"Tag Number ", 65
"Start Time ", 08:42:36
"Start Date ", 13-Dec-2013
"Log Period ", 00:01:00
"Number ", 371
"CalFactor ", 1.000000
"Unit ", 0
"Unit Name ", "(MASS)ug/m3"
"SIZE_CORRECT", "ENABLED"
"TEMPUNITS ", F
"Max MASS ", 5.539699
"Max MASS @ ", 1 ,08:43:36 ,13-Dec-2013
"Avg MASS ", 1.429057
"Max Diam ", 0.444273
"Max Diam @ ", 143 ,11:05:36 ,13-Dec-2013
"Avg Diam ", 0.351164
"ALARM ", "DISABLED"
"ALARM_LEVEL ", 0.0
"AUTO_ZERO ", "DISABLED"
"AZ INTERVAL ", 1
"Errors ", 0000

record	"(MASS)ug/m3"	Temp	RHumidity	Diameter		
1,	5.5,	76.3,	38,	0.3545	,08:43:36	,13-Dec-2013
2,	2.5,	76.6,	42,	0.3963	,08:44:36	,13-Dec-2013
3,	2.5,	77.0,	46,	0.4009	,08:45:36	,13-Dec-2013
4,	2.3,	77.4,	48,	0.3849	,08:46:36	,13-Dec-2013
5,	2.6,	77.9,	49,	0.3855	,08:47:36	,13-Dec-2013
6,	2.3,	78.2,	50,	0.3773	,08:48:36	,13-Dec-2013
7,	2.8,	78.6,	51,	0.3908	,08:49:36	,13-Dec-2013
8,	2.1,	79.0,	51,	0.3477	,08:50:36	,13-Dec-2013
9,	2.2,	79.4,	52,	0.3548	,08:51:36	,13-Dec-2013
10,	2.3,	79.8,	52,	0.3725	,08:52:36	,13-Dec-2013
11,	2.2,	80.2,	52,	0.3793	,08:53:36	,13-Dec-2013
12,	2.0,	80.6,	52,	0.3674	,08:54:36	,13-Dec-2013
13,	2.1,	81.0,	53,	0.3710	,08:55:36	,13-Dec-2013
14,	2.4,	81.4,	53,	0.3950	,08:56:36	,13-Dec-2013
15,	2.6,	81.7,	53,	0.3718	,08:57:36	,13-Dec-2013
16,	2.2,	82.0,	53,	0.4201	,08:58:36	,13-Dec-2013
17,	2.2,	82.5,	53,	0.4294	,08:59:36	,13-Dec-2013
18,	2.4,	82.8,	52,	0.4054	,09:00:36	,13-Dec-2013
19,	2.2,	83.2,	52,	0.3336	,09:01:36	,13-Dec-2013
20,	2.2,	83.5,	52,	0.3346	,09:02:36	,13-Dec-2013
21,	2.6,	83.8,	52,	0.3441	,09:03:36	,13-Dec-2013
22,	2.1,	84.2,	52,	0.3459	,09:04:36	,13-Dec-2013
23,	2.2,	84.5,	52,	0.3593	,09:05:36	,13-Dec-2013
24,	1.9,	84.8,	51,	0.3386	,09:06:36	,13-Dec-2013
25,	2.7,	85.1,	51,	0.3619	,09:07:36	,13-Dec-2013
26,	3.9,	85.3,	51,	0.3051	,09:08:36	,13-Dec-2013
27,	2.4,	85.5,	51,	0.3214	,09:09:36	,13-Dec-2013
28,	2.0,	85.8,	50,	0.3238	,09:10:36	,13-Dec-2013
29,	2.4,	86.0,	50,	0.3420	,09:11:36	,13-Dec-2013
30,	2.0,	86.2,	50,	0.3753	,09:12:36	,13-Dec-2013
31,	2.3,	86.3,	50,	0.3974	,09:13:36	,13-Dec-2013
32,	2.5,	86.5,	50,	0.4178	,09:14:36	,13-Dec-2013
33,	2.1,	86.8,	49,	0.3848	,09:15:36	,13-Dec-2013
34,	2.1,	86.9,	49,	0.3636	,09:16:36	,13-Dec-2013
35,	2.0,	87.1,	49,	0.3327	,09:17:36	,13-Dec-2013
36,	2.5,	87.3,	49,	0.3419	,09:18:36	,13-Dec-2013
37,	2.2,	87.5,	49,	0.3716	,09:19:36	,13-Dec-2013
38,	1.9,	87.8,	49,	0.3665	,09:20:36	,13-Dec-2013
39,	2.0,	87.9,	48,	0.3831	,09:21:36	,13-Dec-2013

40,	1.9,	88.0,	48,	0.3626	,09:22:36	,13-Dec-2013
41,	1.8,	88.2,	48,	0.3612	,09:23:36	,13-Dec-2013
42,	1.9,	88.4,	48,	0.3602	,09:24:36	,13-Dec-2013
43,	2.1,	88.6,	48,	0.3557	,09:25:36	,13-Dec-2013
44,	2.0,	88.7,	47,	0.3565	,09:26:36	,13-Dec-2013
45,	2.2,	88.9,	47,	0.3544	,09:27:36	,13-Dec-2013
46,	1.8,	89.0,	47,	0.3501	,09:28:36	,13-Dec-2013
47,	2.0,	89.1,	47,	0.3721	,09:29:36	,13-Dec-2013
48,	1.7,	89.2,	47,	0.3787	,09:30:36	,13-Dec-2013
49,	2.1,	89.4,	47,	0.3464	,09:31:36	,13-Dec-2013
50,	2.0,	89.6,	46,	0.3430	,09:32:36	,13-Dec-2013
51,	2.1,	89.7,	46,	0.3269	,09:33:36	,13-Dec-2013
52,	2.2,	89.9,	46,	0.3256	,09:34:36	,13-Dec-2013
53,	1.9,	90.1,	46,	0.3296	,09:35:36	,13-Dec-2013
54,	2.2,	90.3,	46,	0.3103	,09:36:36	,13-Dec-2013
55,	1.4,	90.5,	46,	0.3172	,09:37:36	,13-Dec-2013
56,	2.0,	90.6,	46,	0.3237	,09:38:36	,13-Dec-2013
57,	1.4,	90.8,	45,	0.3407	,09:39:36	,13-Dec-2013
58,	1.5,	91.0,	45,	0.3410	,09:40:36	,13-Dec-2013
59,	1.6,	91.2,	45,	0.3412	,09:41:36	,13-Dec-2013
60,	1.4,	91.4,	45,	0.3408	,09:42:36	,13-Dec-2013
61,	1.6,	91.5,	44,	0.3429	,09:43:36	,13-Dec-2013
62,	1.5,	91.7,	44,	0.3402	,09:44:36	,13-Dec-2013
63,	1.5,	91.8,	44,	0.3403	,09:45:36	,13-Dec-2013
64,	1.4,	91.9,	43,	0.3401	,09:46:36	,13-Dec-2013
65,	1.6,	92.1,	43,	0.3555	,09:47:36	,13-Dec-2013
66,	1.4,	92.2,	43,	0.3458	,09:48:36	,13-Dec-2013
67,	1.5,	92.3,	43,	0.3464	,09:49:36	,13-Dec-2013
68,	1.5,	92.4,	43,	0.3641	,09:50:36	,13-Dec-2013
69,	1.6,	92.5,	43,	0.3724	,09:51:36	,13-Dec-2013
70,	1.3,	92.6,	42,	0.3648	,09:52:36	,13-Dec-2013
71,	1.6,	92.7,	43,	0.3695	,09:53:36	,13-Dec-2013
72,	1.4,	92.9,	42,	0.3804	,09:54:36	,13-Dec-2013
73,	1.2,	93.2,	42,	0.3929	,09:55:36	,13-Dec-2013
74,	1.8,	93.4,	42,	0.3998	,09:56:36	,13-Dec-2013
75,	1.2,	93.5,	42,	0.3742	,09:57:36	,13-Dec-2013
76,	1.3,	93.6,	41,	0.3764	,09:58:36	,13-Dec-2013
77,	1.5,	93.6,	41,	0.3827	,09:59:36	,13-Dec-2013
78,	1.4,	93.7,	41,	0.4023	,10:00:36	,13-Dec-2013
79,	1.1,	93.7,	41,	0.4130	,10:01:36	,13-Dec-2013
80,	1.3,	93.9,	41,	0.4176	,10:02:36	,13-Dec-2013
81,	0.9,	93.9,	41,	0.3782	,10:03:36	,13-Dec-2013
82,	1.1,	94.0,	41,	0.3385	,10:04:36	,13-Dec-2013
83,	1.0,	94.1,	40,	0.3384	,10:05:36	,13-Dec-2013
84,	1.2,	94.2,	40,	0.3386	,10:06:36	,13-Dec-2013
85,	1.6,	94.2,	40,	0.3428	,10:07:36	,13-Dec-2013
86,	1.4,	94.3,	40,	0.3335	,10:08:36	,13-Dec-2013
87,	1.2,	94.2,	40,	0.3333	,10:09:36	,13-Dec-2013
88,	1.4,	94.2,	40,	0.3327	,10:10:36	,13-Dec-2013
89,	1.3,	94.2,	40,	0.3318	,10:11:36	,13-Dec-2013
90,	1.2,	94.2,	40,	0.3319	,10:12:36	,13-Dec-2013
91,	1.1,	94.2,	40,	0.3324	,10:13:36	,13-Dec-2013
92,	1.6,	94.1,	39,	0.3304	,10:14:36	,13-Dec-2013
93,	1.6,	94.0,	40,	0.3245	,10:15:36	,13-Dec-2013
94,	1.8,	94.0,	40,	0.3223	,10:16:36	,13-Dec-2013
95,	1.6,	93.8,	40,	0.3261	,10:17:36	,13-Dec-2013
96,	1.7,	93.7,	40,	0.3256	,10:18:36	,13-Dec-2013
97,	1.8,	93.6,	40,	0.3250	,10:19:36	,13-Dec-2013
98,	1.5,	93.5,	40,	0.3285	,10:20:36	,13-Dec-2013
99,	1.3,	93.4,	40,	0.3310	,10:21:36	,13-Dec-2013
100,	2.1,	93.3,	40,	0.3251	,10:22:36	,13-Dec-2013
101,	1.5,	93.2,	40,	0.3280	,10:23:36	,13-Dec-2013
102,	1.5,	93.1,	40,	0.3284	,10:24:36	,13-Dec-2013
103,	1.5,	93.0,	40,	0.3282	,10:25:36	,13-Dec-2013

104,	1.7,	92.9,	40,	0.3270	,10:26:36	,13-Dec-2013
105,	1.7,	92.8,	40,	0.3270	,10:27:36	,13-Dec-2013
106,	1.1,	92.6,	40,	0.3307	,10:28:36	,13-Dec-2013
107,	1.5,	92.6,	41,	0.3272	,10:29:36	,13-Dec-2013
108,	1.3,	92.5,	41,	0.3285	,10:30:36	,13-Dec-2013
109,	1.7,	92.4,	41,	0.3261	,10:31:36	,13-Dec-2013
110,	1.4,	92.2,	41,	0.3279	,10:32:36	,13-Dec-2013
111,	1.8,	92.2,	41,	0.3302	,10:33:36	,13-Dec-2013
112,	1.7,	92.0,	41,	0.3402	,10:34:36	,13-Dec-2013
113,	1.8,	91.9,	41,	0.3357	,10:35:36	,13-Dec-2013
114,	1.7,	91.8,	42,	0.3318	,10:36:36	,13-Dec-2013
115,	1.7,	91.7,	42,	0.3364	,10:37:36	,13-Dec-2013
116,	1.6,	91.7,	42,	0.3449	,10:38:36	,13-Dec-2013
117,	1.9,	91.6,	42,	0.3461	,10:39:36	,13-Dec-2013
118,	1.6,	91.7,	42,	0.3479	,10:40:36	,13-Dec-2013
119,	1.9,	91.7,	42,	0.3473	,10:41:36	,13-Dec-2013
120,	2.7,	91.8,	43,	0.3453	,10:42:36	,13-Dec-2013
121,	1.8,	91.8,	42,	0.3774	,10:43:36	,13-Dec-2013
122,	1.7,	91.9,	43,	0.3735	,10:44:36	,13-Dec-2013
123,	2.1,	91.8,	42,	0.3847	,10:45:36	,13-Dec-2013
124,	1.8,	91.7,	42,	0.3795	,10:46:36	,13-Dec-2013
125,	2.3,	91.6,	42,	0.3789	,10:47:36	,13-Dec-2013
126,	1.9,	91.4,	42,	0.3635	,10:48:36	,13-Dec-2013
127,	1.8,	91.3,	42,	0.3448	,10:49:36	,13-Dec-2013
128,	2.1,	91.1,	42,	0.3723	,10:50:36	,13-Dec-2013
129,	1.9,	91.0,	43,	0.3904	,10:51:36	,13-Dec-2013
130,	1.9,	90.9,	43,	0.3734	,10:52:36	,13-Dec-2013
131,	1.9,	90.9,	43,	0.3641	,10:53:36	,13-Dec-2013
132,	1.4,	90.8,	43,	0.3445	,10:54:36	,13-Dec-2013
133,	1.9,	90.9,	43,	0.3500	,10:55:36	,13-Dec-2013
134,	2.0,	90.9,	43,	0.3558	,10:56:36	,13-Dec-2013
135,	1.7,	90.9,	43,	0.3532	,10:57:36	,13-Dec-2013
136,	1.8,	91.0,	43,	0.3469	,10:58:36	,13-Dec-2013
137,	1.9,	91.0,	43,	0.3432	,10:59:36	,13-Dec-2013
138,	1.9,	91.1,	43,	0.3454	,11:00:36	,13-Dec-2013
139,	2.1,	91.2,	43,	0.3333	,11:01:36	,13-Dec-2013
140,	2.1,	91.4,	43,	0.3367	,11:02:36	,13-Dec-2013
141,	2.1,	91.5,	43,	0.3796	,11:03:36	,13-Dec-2013
142,	1.7,	91.6,	43,	0.4250	,11:04:36	,13-Dec-2013
143,	1.8,	91.8,	43,	0.4443	,11:05:36	,13-Dec-2013
144,	1.5,	92.0,	43,	0.4052	,11:06:36	,13-Dec-2013
145,	1.9,	92.2,	43,	0.4161	,11:07:36	,13-Dec-2013
146,	1.8,	92.4,	42,	0.3951	,11:08:36	,13-Dec-2013
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149,	1.6,	92.6,	41,	0.3586	,11:11:36	,13-Dec-2013
150,	1.5,	92.6,	41,	0.3581	,11:12:36	,13-Dec-2013
151,	1.5,	92.6,	41,	0.3649	,11:13:36	,13-Dec-2013
152,	1.8,	92.6,	41,	0.3582	,11:14:36	,13-Dec-2013
153,	1.5,	92.7,	41,	0.3402	,11:15:36	,13-Dec-2013
154,	1.3,	92.8,	41,	0.3467	,11:16:36	,13-Dec-2013
155,	1.0,	92.9,	41,	0.3441	,11:17:36	,13-Dec-2013
156,	1.5,	93.0,	41,	0.3542	,11:18:36	,13-Dec-2013
157,	1.6,	93.2,	41,	0.3623	,11:19:36	,13-Dec-2013
158,	1.3,	93.3,	41,	0.3585	,11:20:36	,13-Dec-2013
159,	1.6,	93.5,	41,	0.3643	,11:21:36	,13-Dec-2013
160,	1.6,	93.6,	40,	0.3720	,11:22:36	,13-Dec-2013
161,	1.5,	93.7,	40,	0.3678	,11:23:36	,13-Dec-2013
162,	1.0,	93.9,	40,	0.3468	,11:24:36	,13-Dec-2013
163,	1.1,	94.0,	39,	0.3478	,11:25:36	,13-Dec-2013
164,	0.8,	94.2,	38,	0.3452	,11:26:36	,13-Dec-2013
165,	0.8,	94.2,	38,	0.3456	,11:27:36	,13-Dec-2013
166,	1.2,	94.2,	37,	0.3491	,11:28:36	,13-Dec-2013
167,	0.7,	94.2,	37,	0.3442	,11:29:36	,13-Dec-2013

168,	1.2,	94.3,	37,	0.3486	,11:30:36	,13-Dec-2013
169,	1.1,	94.4,	37,	0.3583	,11:31:36	,13-Dec-2013
170,	1.3,	94.4,	37,	0.3987	,11:32:36	,13-Dec-2013
171,	0.7,	94.5,	37,	0.3638	,11:33:36	,13-Dec-2013
172,	1.4,	94.6,	37,	0.3776	,11:34:36	,13-Dec-2013
173,	1.0,	94.7,	37,	0.3648	,11:35:36	,13-Dec-2013
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176,	0.8,	95.1,	36,	0.3589	,11:38:36	,13-Dec-2013
177,	1.0,	95.1,	36,	0.3637	,11:39:36	,13-Dec-2013
178,	1.0,	95.1,	36,	0.3635	,11:40:36	,13-Dec-2013
179,	0.8,	95.2,	36,	0.3603	,11:41:36	,13-Dec-2013
180,	0.6,	95.3,	36,	0.3526	,11:42:36	,13-Dec-2013
181,	1.3,	95.3,	35,	0.3845	,11:43:36	,13-Dec-2013
182,	0.7,	95.4,	35,	0.3811	,11:44:36	,13-Dec-2013
183,	0.2,	95.4,	35,	0.3489	,11:45:36	,13-Dec-2013
184,	0.3,	95.5,	35,	0.3512	,11:46:36	,13-Dec-2013
185,	1.0,	95.4,	35,	0.4007	,11:47:36	,13-Dec-2013
186,	1.5,	95.5,	35,	0.3999	,11:48:36	,13-Dec-2013
187,	1.2,	95.5,	35,	0.3529	,11:49:36	,13-Dec-2013
188,	0.9,	95.5,	35,	0.3490	,11:50:36	,13-Dec-2013
189,	0.9,	95.5,	35,	0.3494	,11:51:36	,13-Dec-2013
190,	1.3,	95.4,	36,	0.3534	,11:52:36	,13-Dec-2013
191,	1.2,	95.4,	36,	0.3526	,11:53:36	,13-Dec-2013
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193,	1.1,	95.4,	36,	0.3492	,11:55:36	,13-Dec-2013
194,	1.2,	95.4,	36,	0.3379	,11:56:36	,13-Dec-2013
195,	0.6,	95.4,	36,	0.3349	,11:57:36	,13-Dec-2013
196,	1.2,	95.4,	36,	0.3326	,11:58:36	,13-Dec-2013
197,	1.2,	95.4,	36,	0.3323	,11:59:36	,13-Dec-2013
198,	0.6,	95.4,	36,	0.3350	,12:00:36	,13-Dec-2013
199,	0.8,	95.4,	36,	0.3340	,12:01:36	,13-Dec-2013
200,	1.2,	95.4,	36,	0.3324	,12:02:36	,13-Dec-2013
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202,	1.1,	95.4,	37,	0.3274	,12:04:36	,13-Dec-2013
203,	1.4,	95.4,	37,	0.3224	,12:05:36	,13-Dec-2013
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205,	1.1,	95.5,	37,	0.3256	,12:07:36	,13-Dec-2013
206,	1.5,	95.5,	37,	0.3293	,12:08:36	,13-Dec-2013
207,	1.1,	95.5,	36,	0.3328	,12:09:36	,13-Dec-2013
208,	0.8,	95.5,	36,	0.3338	,12:10:36	,13-Dec-2013
209,	1.0,	95.5,	36,	0.3329	,12:11:36	,13-Dec-2013
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212,	1.0,	95.5,	36,	0.3327	,12:14:36	,13-Dec-2013
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215,	0.6,	95.5,	36,	0.3349	,12:17:36	,13-Dec-2013
216,	0.9,	95.5,	35,	0.3333	,12:18:36	,13-Dec-2013
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218,	1.0,	95.5,	35,	0.3333	,12:20:36	,13-Dec-2013
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221,	0.8,	95.5,	36,	0.3339	,12:23:36	,13-Dec-2013
222,	1.6,	95.6,	36,	0.3730	,12:24:36	,13-Dec-2013
223,	1.1,	95.7,	36,	0.3794	,12:25:36	,13-Dec-2013
224,	1.0,	95.8,	36,	0.3722	,12:26:36	,13-Dec-2013
225,	0.8,	95.9,	36,	0.3675	,12:27:36	,13-Dec-2013
226,	1.1,	95.9,	36,	0.3767	,12:28:36	,13-Dec-2013
227,	1.3,	96.0,	36,	0.3744	,12:29:36	,13-Dec-2013
228,	1.0,	96.0,	36,	0.3490	,12:30:36	,13-Dec-2013
229,	0.8,	96.0,	36,	0.3405	,12:31:36	,13-Dec-2013
230,	1.2,	96.0,	36,	0.3420	,12:32:36	,13-Dec-2013
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232,	1.1,	95.9,	36,	0.3416	,12:34:36	,13-Dec-2013
233,	1.3,	95.9,	36,	0.3396	,12:35:36	,13-Dec-2013
234,	1.0,	95.9,	36,	0.3376	,12:36:36	,13-Dec-2013
235,	1.1,	95.8,	36,	0.3364	,12:37:36	,13-Dec-2013
236,	0.7,	95.8,	35,	0.3347	,12:38:36	,13-Dec-2013
237,	0.8,	95.8,	35,	0.3344	,12:39:36	,13-Dec-2013
238,	0.9,	95.8,	35,	0.3338	,12:40:36	,13-Dec-2013
239,	0.7,	95.7,	35,	0.3346	,12:41:36	,13-Dec-2013
240,	1.3,	95.7,	35,	0.3323	,12:42:36	,13-Dec-2013
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242,	1.4,	95.6,	35,	0.3320	,12:44:36	,13-Dec-2013
243,	1.1,	95.6,	35,	0.3631	,12:45:36	,13-Dec-2013
244,	0.9,	95.5,	35,	0.3627	,12:46:36	,13-Dec-2013
245,	0.9,	95.5,	35,	0.3546	,12:47:36	,13-Dec-2013
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248,	1.4,	95.3,	36,	0.3496	,12:50:36	,13-Dec-2013
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253,	1.3,	95.3,	38,	0.3498	,12:55:36	,13-Dec-2013
254,	1.1,	95.3,	38,	0.3475	,12:56:36	,13-Dec-2013
255,	1.4,	95.3,	38,	0.3501	,12:57:36	,13-Dec-2013
256,	1.3,	95.3,	38,	0.3387	,12:58:36	,13-Dec-2013
257,	1.3,	95.4,	38,	0.3342	,12:59:36	,13-Dec-2013
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259,	1.4,	95.4,	38,	0.3289	,13:01:36	,13-Dec-2013
260,	1.4,	95.5,	38,	0.3285	,13:02:36	,13-Dec-2013
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262,	0.9,	95.5,	37,	0.3320	,13:04:36	,13-Dec-2013
263,	0.9,	95.5,	37,	0.3319	,13:05:36	,13-Dec-2013
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265,	0.9,	95.5,	37,	0.3319	,13:07:36	,13-Dec-2013
266,	0.8,	95.5,	37,	0.3325	,13:08:36	,13-Dec-2013
267,	1.1,	95.5,	37,	0.3302	,13:09:36	,13-Dec-2013
268,	1.3,	95.5,	37,	0.3287	,13:10:36	,13-Dec-2013
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283,	1.1,	95.6,	37,	0.3358	,13:25:36	,13-Dec-2013
284,	0.6,	95.7,	37,	0.3364	,13:26:36	,13-Dec-2013
285,	0.7,	95.8,	37,	0.3363	,13:27:36	,13-Dec-2013
286,	0.7,	95.8,	37,	0.3364	,13:28:36	,13-Dec-2013
287,	0.7,	96.0,	37,	0.3364	,13:29:36	,13-Dec-2013
288,	1.0,	96.0,	37,	0.3360	,13:30:36	,13-Dec-2013
289,	1.1,	96.1,	37,	0.3357	,13:31:36	,13-Dec-2013
290,	0.7,	96.1,	37,	0.3365	,13:32:36	,13-Dec-2013
291,	1.1,	96.2,	37,	0.3357	,13:33:36	,13-Dec-2013
292,	1.2,	96.3,	36,	0.3355	,13:34:36	,13-Dec-2013
293,	1.1,	96.3,	36,	0.3425	,13:35:36	,13-Dec-2013
294,	1.8,	96.4,	36,	0.3913	,13:36:36	,13-Dec-2013
295,	1.2,	96.5,	36,	0.3925	,13:37:36	,13-Dec-2013

296,	1.5,	96.6,	36,	0.4217	,13:38:36	,13-Dec-2013
297,	1.1,	96.6,	37,	0.3893	,13:39:36	,13-Dec-2013
298,	1.2,	96.7,	36,	0.3866	,13:40:36	,13-Dec-2013
299,	1.0,	96.7,	36,	0.3591	,13:41:36	,13-Dec-2013
300,	1.1,	96.6,	36,	0.3598	,13:42:36	,13-Dec-2013
301,	1.1,	96.6,	36,	0.3452	,13:43:36	,13-Dec-2013
302,	1.2,	96.5,	36,	0.3438	,13:44:36	,13-Dec-2013
303,	0.8,	96.4,	36,	0.3407	,13:45:36	,13-Dec-2013
304,	1.6,	96.4,	36,	0.3425	,13:46:36	,13-Dec-2013
305,	0.8,	96.3,	37,	0.3403	,13:47:36	,13-Dec-2013
306,	1.2,	96.2,	37,	0.3420	,13:48:36	,13-Dec-2013
307,	1.5,	96.2,	37,	0.3431	,13:49:36	,13-Dec-2013
308,	1.5,	96.1,	38,	0.3433	,13:50:36	,13-Dec-2013
309,	1.0,	96.0,	38,	0.3414	,13:51:36	,13-Dec-2013
310,	1.3,	96.0,	38,	0.3423	,13:52:36	,13-Dec-2013
311,	1.2,	96.0,	37,	0.3421	,13:53:36	,13-Dec-2013
312,	1.0,	95.9,	37,	0.3411	,13:54:36	,13-Dec-2013
313,	1.5,	95.8,	37,	0.3378	,13:55:36	,13-Dec-2013
314,	1.0,	95.7,	37,	0.3363	,13:56:36	,13-Dec-2013
315,	0.9,	95.7,	37,	0.3364	,13:57:36	,13-Dec-2013
316,	1.0,	95.6,	38,	0.3363	,13:58:36	,13-Dec-2013
317,	1.6,	95.6,	38,	0.3355	,13:59:36	,13-Dec-2013
318,	1.5,	95.6,	38,	0.3356	,14:00:36	,13-Dec-2013
319,	1.0,	95.6,	38,	0.3363	,14:01:36	,13-Dec-2013
320,	0.9,	95.5,	38,	0.3364	,14:02:36	,13-Dec-2013
321,	0.8,	95.6,	38,	0.3365	,14:03:36	,13-Dec-2013
322,	1.2,	95.5,	38,	0.3361	,14:04:36	,13-Dec-2013
323,	1.1,	95.5,	38,	0.3365	,14:05:36	,13-Dec-2013
324,	0.8,	95.5,	38,	0.3368	,14:06:36	,13-Dec-2013
325,	1.2,	95.6,	38,	0.3365	,14:07:36	,13-Dec-2013
326,	1.0,	95.6,	38,	0.3367	,14:08:36	,13-Dec-2013
327,	1.3,	95.6,	39,	0.3364	,14:09:36	,13-Dec-2013
328,	1.4,	95.7,	39,	0.3363	,14:10:36	,13-Dec-2013
329,	1.3,	95.7,	39,	0.3364	,14:11:36	,13-Dec-2013
330,	1.1,	95.7,	39,	0.3366	,14:12:36	,13-Dec-2013
331,	1.2,	95.8,	39,	0.3603	,14:13:36	,13-Dec-2013
332,	1.2,	95.8,	39,	0.3654	,14:14:36	,13-Dec-2013
333,	1.0,	95.8,	39,	0.3560	,14:15:36	,13-Dec-2013
334,	1.1,	95.9,	39,	0.3467	,14:16:36	,13-Dec-2013
335,	1.4,	95.9,	39,	0.3494	,14:17:36	,13-Dec-2013
336,	1.5,	95.9,	39,	0.3442	,14:18:36	,13-Dec-2013
337,	1.3,	95.9,	39,	0.3510	,14:19:36	,13-Dec-2013
338,	1.5,	96.0,	40,	0.3521	,14:20:36	,13-Dec-2013
339,	1.3,	96.0,	39,	0.3496	,14:21:36	,13-Dec-2013
340,	1.5,	96.0,	39,	0.3465	,14:22:36	,13-Dec-2013
341,	1.4,	96.1,	39,	0.3450	,14:23:36	,13-Dec-2013
342,	1.5,	96.2,	39,	0.3450	,14:24:36	,13-Dec-2013
343,	1.2,	96.2,	39,	0.3423	,14:25:36	,13-Dec-2013
344,	1.2,	96.3,	39,	0.3448	,14:26:36	,13-Dec-2013
345,	1.4,	96.3,	39,	0.3444	,14:27:36	,13-Dec-2013
346,	1.4,	96.3,	39,	0.3440	,14:28:36	,13-Dec-2013
347,	1.1,	96.3,	39,	0.3427	,14:29:36	,13-Dec-2013
348,	1.2,	96.3,	39,	0.3502	,14:30:36	,13-Dec-2013
349,	1.4,	96.3,	39,	0.3732	,14:31:36	,13-Dec-2013
350,	1.5,	96.3,	39,	0.3861	,14:32:36	,13-Dec-2013
351,	1.4,	96.3,	39,	0.3703	,14:33:36	,13-Dec-2013
352,	1.3,	96.3,	39,	0.3626	,14:34:36	,13-Dec-2013
353,	1.2,	96.2,	39,	0.3608	,14:35:36	,13-Dec-2013
354,	1.4,	96.2,	39,	0.3658	,14:36:36	,13-Dec-2013
355,	1.4,	96.2,	40,	0.3579	,14:37:36	,13-Dec-2013
356,	1.2,	96.2,	39,	0.3509	,14:38:36	,13-Dec-2013
357,	1.4,	96.1,	39,	0.3478	,14:39:36	,13-Dec-2013
358,	1.4,	96.0,	40,	0.3598	,14:40:36	,13-Dec-2013
359,	1.4,	96.0,	40,	0.3661	,14:41:36	,13-Dec-2013

360,	1.5,	95.9,	40,	0.3602	,14:42:36	,13-Dec-2013
361,	1.1,	95.9,	39,	0.3519	,14:43:36	,13-Dec-2013
362,	1.4,	95.8,	39,	0.3640	,14:44:36	,13-Dec-2013
363,	1.3,	95.8,	40,	0.3718	,14:45:36	,13-Dec-2013
364,	1.0,	95.8,	39,	0.3644	,14:46:36	,13-Dec-2013
365,	1.4,	95.8,	39,	0.3601	,14:47:36	,13-Dec-2013
366,	1.9,	95.8,	40,	0.3544	,14:48:36	,13-Dec-2013
367,	1.5,	95.8,	40,	0.3455	,14:49:36	,13-Dec-2013
368,	1.3,	95.8,	40,	0.3439	,14:50:36	,13-Dec-2013
369,	1.5,	95.8,	40,	0.3391	,14:51:36	,13-Dec-2013
370,	1.7,	95.8,	40,	0.3493	,14:52:36	,13-Dec-2013
371,	1.5,	95.8,	40,	0.3491	,14:53:36	,13-Dec-2013

(MASS)ug/m3
Temp (F)
Humidity (RH%)
Diameter (nm)
DataRAM 4 SN#:D787 Dev#:1 Tag#:65 start:13-Dec-2013 08:42:36 Interval: 00:01:00
0
1
2
3
4
5
12/13/13 08:00:00
12/13/13 08:30:00
12/13/13 10:00:00
12/13/13 10:30:00
12/13/13 11:00:00
12/13/13 11:30:00
12/13/13 12:00:00
12/13/13 12:30:00
12/13/13 13:00:00
12/13/13 13:30:00
12/13/13 14:00:00
12/13/13 14:30:00

DataRAM 4 SN# D787 Dev# 1 Tag# 65 Start: 13-Dec-2013 08:42:36 Interval: 00:01:00
(MASS)ug/m3
Temp (F)
Humidity (RH%)
Diameter (nm)
95
90
85
80
75
70
65
60
55
50
45
40
35
30
25
20
15
10
5
0
12/13/13 09:00:00
12/13/13 09:30:00
12/13/13 10:00:00
12/13/13 10:30:00
12/13/13 11:00:00
12/13/13 11:30:00
12/13/13 12:00:00
12/13/13 12:30:00
12/13/13 13:00:00
12/13/13 13:30:00
12/13/13 14:00:00
12/13/13 14:30:00

DataRAM 4 SN# D787 Dev#:1 Tag# 65 start: 13-Dec-2013 08:42:38 interval: 00:01:00
(MASS)ug/m3
Temp (F)
Humidity (RH%)
Diameter (nm)
0
5
10
15
20
25
30
35
40
45
50
12/13/13 08:00:00
12/13/13 09:30:00
12/13/13 10:00:00
12/13/13 10:30:00
12/13/13 11:00:00
12/13/13 11:30:00
12/13/13 12:00:00
12/13/13 12:30:00
12/13/13 13:00:00
12/13/13 13:30:00
12/13/13 14:00:00
12/13/13 14:30:00

DataRAM 4 SN# D787 Dev# 1 Tag# 65 start: 13-Dec-2013 08:42:36 interval: 00:01:00
(MASS)ug/m3
Temp (F)
Humidity (RH%)
Diameter (nm)
0
20
40
60
80
100
120
140
160
180
200
220
240
260
280
300
320
340
360
380
400
420
440
12/13/13 09:00:00
12/13/13 09:30:00
12/13/13 10:00:00
12/13/13 10:30:00
12/13/13 11:00:00
12/13/13 11:30:00
12/13/13 12:00:00
12/13/13 12:30:00
12/13/13 13:00:00
12/13/13 13:30:00
12/13/13 14:00:00
12/13/13 14:30:00

APPENDIX 5
TOWER #2 AIR PARTICULATE MONITORING

RX 6

CONFIDENTIAL - SUBJECT TO

40,	1.5,	89.6,	49,	0.3813	,09:44:02	,13-Dec-2013
41,	1.3,	89.8,	49,	0.3758	,09:45:02	,13-Dec-2013
42,	1.7,	90.0,	48,	0.3848	,09:46:02	,13-Dec-2013
43,	1.8,	90.4,	48,	0.3865	,09:47:02	,13-Dec-2013
44,	1.5,	90.6,	48,	0.3744	,09:48:02	,13-Dec-2013
45,	1.3,	90.9,	47,	0.3682	,09:49:02	,13-Dec-2013
46,	1.3,	91.2,	47,	0.3710	,09:50:02	,13-Dec-2013
47,	1.2,	91.5,	47,	0.3743	,09:51:02	,13-Dec-2013
48,	1.3,	91.7,	46,	0.3850	,09:52:02	,13-Dec-2013
49,	1.0,	91.9,	46,	0.3960	,09:53:02	,13-Dec-2013
50,	1.4,	92.1,	45,	0.4044	,09:54:02	,13-Dec-2013
51,	1.8,	92.3,	45,	0.3938	,09:55:02	,13-Dec-2013
52,	1.1,	92.4,	44,	0.3882	,09:56:02	,13-Dec-2013
53,	1.4,	92.5,	44,	0.4046	,09:57:02	,13-Dec-2013
54,	1.4,	92.7,	44,	0.4026	,09:58:02	,13-Dec-2013
55,	1.4,	92.8,	44,	0.4053	,09:59:02	,13-Dec-2013
56,	1.2,	92.9,	44,	0.3881	,10:00:02	,13-Dec-2013
57,	1.3,	93.1,	44,	0.3885	,10:01:02	,13-Dec-2013
58,	1.4,	93.2,	43,	0.3894	,10:02:02	,13-Dec-2013
59,	0.8,	93.4,	43,	0.3622	,10:03:02	,13-Dec-2013
60,	1.2,	93.5,	43,	0.3736	,10:04:02	,13-Dec-2013
61,	1.1,	93.6,	42,	0.3773	,10:05:02	,13-Dec-2013
62,	1.3,	93.7,	42,	0.3797	,10:06:02	,13-Dec-2013
63,	1.3,	93.7,	42,	0.3755	,10:07:02	,13-Dec-2013
64,	1.0,	93.8,	42,	0.3683	,10:08:02	,13-Dec-2013
65,	1.0,	94.0,	42,	0.3670	,10:09:02	,13-Dec-2013
66,	1.0,	94.0,	42,	0.3736	,10:10:02	,13-Dec-2013
67,	1.3,	94.1,	42,	0.3906	,10:11:02	,13-Dec-2013
68,	0.6,	94.1,	41,	0.3609	,10:12:02	,13-Dec-2013
69,	1.0,	94.1,	41,	0.3731	,10:13:02	,13-Dec-2013
70,	1.0,	94.2,	41,	0.3697	,10:14:02	,13-Dec-2013
71,	1.4,	94.1,	41,	0.3610	,10:15:02	,13-Dec-2013
72,	1.3,	94.2,	41,	0.3639	,10:16:02	,13-Dec-2013
73,	1.2,	94.2,	41,	0.3681	,10:17:02	,13-Dec-2013
74,	0.8,	94.4,	41,	0.3608	,10:18:02	,13-Dec-2013
75,	1.1,	94.5,	41,	0.3791	,10:19:02	,13-Dec-2013
76,	1.0,	94.5,	41,	0.3789	,10:20:02	,13-Dec-2013
77,	1.0,	94.5,	41,	0.3818	,10:21:02	,13-Dec-2013
78,	1.0,	94.4,	41,	0.3819	,10:22:02	,13-Dec-2013
79,	1.0,	94.4,	41,	0.3811	,10:23:02	,13-Dec-2013
80,	1.4,	94.4,	41,	0.4023	,10:24:02	,13-Dec-2013
81,	1.0,	94.4,	41,	0.3784	,10:25:02	,13-Dec-2013
82,	0.9,	94.4,	41,	0.3714	,10:26:02	,13-Dec-2013
83,	1.2,	94.3,	41,	0.3828	,10:27:02	,13-Dec-2013
84,	1.2,	94.3,	41,	0.3815	,10:28:02	,13-Dec-2013
85,	1.5,	94.2,	41,	0.3934	,10:29:02	,13-Dec-2013
86,	1.4,	94.1,	41,	0.3726	,10:30:02	,13-Dec-2013
87,	1.2,	93.9,	41,	0.3591	,10:31:02	,13-Dec-2013
88,	1.4,	93.8,	41,	0.3614	,10:32:02	,13-Dec-2013
89,	1.3,	93.7,	41,	0.3781	,10:33:02	,13-Dec-2013
90,	1.6,	93.6,	41,	0.4044	,10:34:02	,13-Dec-2013
91,	2.0,	93.5,	42,	0.3645	,10:35:02	,13-Dec-2013
92,	2.0,	93.3,	42,	0.3621	,10:36:02	,13-Dec-2013
93,	1.7,	93.2,	42,	0.3663	,10:37:02	,13-Dec-2013
94,	2.1,	93.1,	42,	0.4472	,10:38:02	,13-Dec-2013
95,	2.4,	93.0,	43,	0.4847	,10:39:02	,13-Dec-2013
96,	1.4,	92.9,	43,	0.3921	,10:40:02	,13-Dec-2013
97,	1.6,	92.8,	43,	0.4177	,10:41:02	,13-Dec-2013
98,	1.7,	92.7,	43,	0.4107	,10:42:02	,13-Dec-2013
99,	1.4,	92.6,	43,	0.3719	,10:43:02	,13-Dec-2013
100,	2.0,	92.5,	43,	0.4014	,10:44:02	,13-Dec-2013
101,	6.5,	92.5,	43,	0.8154	,10:45:02	,13-Dec-2013
102,	14.4,	92.4,	44,	1.9154	,10:46:02	,13-Dec-2013
103,	2.1,	92.3,	44,	0.5793	,10:47:02	,13-Dec-2013

104,	42.8,	92.2,	44,	3.2240	,10:48:02	,13-Dec-2013
105,	6.1,	92.1,	44,	1.3964	,10:49:02	,13-Dec-2013
106,	1.7,	92.0,	44,	0.5066	,10:50:02	,13-Dec-2013
107,	6.0,	91.9,	45,	1.3924	,10:51:02	,13-Dec-2013
108,	3.9,	91.8,	45,	0.8347	,10:52:02	,13-Dec-2013
109,	2.5,	91.8,	45,	0.4545	,10:53:02	,13-Dec-2013
110,	2.0,	91.7,	45,	0.4458	,10:54:02	,13-Dec-2013
111,	393.1,	91.7,	45,	3.2722	,10:55:02	,13-Dec-2013
112,	18.6,	91.6,	45,	2.5530	,10:56:02	,13-Dec-2013
113,	2.2,	91.5,	44,	0.6689	,10:57:02	,13-Dec-2013
114,	2.2,	91.5,	44,	0.5536	,10:58:02	,13-Dec-2013
115,	1.9,	91.4,	45,	0.5600	,10:59:02	,13-Dec-2013
116,	2.3,	91.3,	45,	0.5647	,11:00:02	,13-Dec-2013
117,	2.2,	91.1,	45,	0.5817	,11:01:02	,13-Dec-2013
118,	2.3,	91.0,	45,	0.6286	,11:02:02	,13-Dec-2013
119,	2.2,	90.9,	45,	0.5846	,11:03:02	,13-Dec-2013
120,	5.1,	90.9,	45,	0.7803	,11:04:02	,13-Dec-2013
121,	4.7,	91.0,	46,	0.9344	,11:05:02	,13-Dec-2013
122,	5.1,	91.1,	46,	0.7580	,11:06:02	,13-Dec-2013
123,	123.8,	91.3,	46,	3.9643	,11:07:02	,13-Dec-2013
124,	22.9,	91.4,	45,	2.9083	,11:08:02	,13-Dec-2013
125,	3.7,	91.6,	45,	0.8842	,11:09:02	,13-Dec-2013
126,	21.8,	91.7,	45,	2.3079	,11:10:02	,13-Dec-2013
127,	2.4,	91.9,	45,	0.7075	,11:11:02	,13-Dec-2013
128,	1.8,	92.2,	45,	0.5561	,11:12:02	,13-Dec-2013
129,	1.9,	92.4,	45,	0.5181	,11:13:02	,13-Dec-2013
130,	2.3,	92.7,	45,	0.5988	,11:14:02	,13-Dec-2013
131,	3.6,	92.9,	44,	0.9144	,11:15:02	,13-Dec-2013
132,	4.3,	93.3,	44,	1.1624	,11:16:02	,13-Dec-2013
133,	4.7,	93.5,	44,	1.2130	,11:17:02	,13-Dec-2013
134,	51.8,	93.7,	43,	2.5511	,11:18:02	,13-Dec-2013
135,	5.7,	94.1,	43,	1.4869	,11:19:02	,13-Dec-2013
136,	672.4,	94.3,	43,	3.7604	,11:20:02	,13-Dec-2013
137,	27.1,	94.4,	42,	3.5191	,11:21:02	,13-Dec-2013
138,	67.4,	94.5,	42,	3.6569	,11:22:02	,13-Dec-2013
139,	40.1,	94.6,	41,	3.0999	,11:23:02	,13-Dec-2013
140,	3.1,	94.8,	41,	0.8170	,11:24:02	,13-Dec-2013
141,	1.8,	95.0,	41,	0.4550	,11:25:02	,13-Dec-2013
142,	2.2,	95.2,	41,	0.4414	,11:26:02	,13-Dec-2013
143,	2.0,	95.4,	41,	0.5426	,11:27:02	,13-Dec-2013
144,	2.3,	95.7,	41,	0.5662	,11:28:02	,13-Dec-2013
145,	3.3,	95.9,	40,	0.7644	,11:29:02	,13-Dec-2013
146,	4.0,	96.1,	40,	1.1260	,11:30:02	,13-Dec-2013
147,	1.8,	96.3,	40,	0.5521	,11:31:02	,13-Dec-2013
148,	7.1,	96.4,	39,	1.3578	,11:32:02	,13-Dec-2013
149,	1.6,	96.6,	39,	0.4705	,11:33:02	,13-Dec-2013
150,	2.1,	96.8,	39,	0.4918	,11:34:02	,13-Dec-2013
151,	2.5,	96.9,	38,	0.7306	,11:35:02	,13-Dec-2013
152,	0.5,	96.9,	38,	0.3769	,11:36:02	,13-Dec-2013
153,	0.7,	97.0,	37,	0.3992	,11:37:02	,13-Dec-2013
154,	1.0,	97.0,	37,	0.4270	,11:38:02	,13-Dec-2013
155,	1.7,	97.0,	36,	0.4596	,11:39:02	,13-Dec-2013
156,	18.6,	97.0,	36,	1.5174	,11:40:02	,13-Dec-2013
157,	55.1,	97.1,	36,	3.5768	,11:41:02	,13-Dec-2013
158,	11.8,	97.1,	36,	2.2337	,11:42:02	,13-Dec-2013
159,	12.7,	97.2,	36,	2.2228	,11:43:02	,13-Dec-2013
160,	290.2,	97.2,	36,	3.8303	,11:44:02	,13-Dec-2013
161,	24.9,	97.3,	35,	3.8528	,11:45:02	,13-Dec-2013
162,	16.0,	97.4,	35,	1.9432	,11:46:02	,13-Dec-2013
163,	0.9,	97.5,	35,	0.4982	,11:47:02	,13-Dec-2013
164,	1.1,	97.6,	35,	0.5532	,11:48:02	,13-Dec-2013
165,	0.6,	97.7,	35,	0.4372	,11:49:02	,13-Dec-2013
166,	0.6,	97.8,	35,	0.4321	,11:50:02	,13-Dec-2013
167,	1.8,	97.8,	35,	0.5793	,11:51:02	,13-Dec-2013

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```
168,    0.9,   97.9,   34,   0.4244  ,11:52:02  ,13-Dec-2013
169,    0.5,   98.0,   34,   0.3838  ,11:53:02  ,13-Dec-2013
170,    0.4,   98.1,   34,   0.3771  ,11:54:02  ,13-Dec-2013
171,    0.2,   98.3,   34,   0.3625  ,11:55:02  ,13-Dec-2013
172,    0.6,   98.5,   34,   0.3967  ,11:56:02  ,13-Dec-2013
173,    4.5,   98.6,   34,   0.9085  ,11:57:02  ,13-Dec-2013
174,    1.4,   98.7,   34,   0.5827  ,11:58:02  ,13-Dec-2013
175,    1.2,   98.8,   34,   0.4705  ,11:59:02  ,13-Dec-2013
176,    1.6,   98.8,   34,   0.5237  ,12:00:02  ,13-Dec-2013
177,    1.2,   98.9,   34,   0.4159  ,12:01:02  ,13-Dec-2013
178,    0.7,   99.0,   34,   0.3830  ,12:02:02  ,13-Dec-2013
179,    0.6,   99.0,   35,   0.3773  ,12:03:02  ,13-Dec-2013
180,    0.6,   99.1,   35,   0.3822  ,12:04:02  ,13-Dec-2013
181,    0.8,   99.1,   35,   0.3950  ,12:05:02  ,13-Dec-2013
182,    1.5,   99.2,   35,   0.4522  ,12:06:02  ,13-Dec-2013
183,    1.5,   99.4,   35,   0.4513  ,12:07:02  ,13-Dec-2013
184,    0.4,   99.4,   35,   0.3761  ,12:08:02  ,13-Dec-2013
185,    4.1,   99.5,   35,   1.0395  ,12:09:02  ,13-Dec-2013
186,   58.6,   99.6,   35,   3.9186  ,12:10:02  ,13-Dec-2013
187,   10.5,   99.7,   35,   1.4684  ,12:11:02  ,13-Dec-2013
188,    2.1,   99.8,   35,   0.6552  ,12:12:02  ,13-Dec-2013
189,    0.3,   99.9,   35,   0.3663  ,12:13:02  ,13-Dec-2013
190,    0.9,   99.9,   34,   0.4396  ,12:14:02  ,13-Dec-2013
191,    1.1,   99.9,   34,   0.4644  ,12:15:02  ,13-Dec-2013
192,    1.0,  100.0,   34,   0.4611  ,12:16:02  ,13-Dec-2013
193,    2.4,  100.1,   35,   0.5291  ,12:17:02  ,13-Dec-2013
194,    3.7,  100.2,   34,   0.9637  ,12:18:02  ,13-Dec-2013
195,    0.5,  100.2,   34,   0.4017  ,12:19:02  ,13-Dec-2013
196,    1.0,  100.3,   34,   0.4453  ,12:20:02  ,13-Dec-2013
197,    1.2,  100.4,   34,   0.4724  ,12:21:02  ,13-Dec-2013
198,    0.5,  100.5,   34,   0.3860  ,12:22:02  ,13-Dec-2013
199,    1.9,  100.5,   33,   0.4333  ,12:23:02  ,13-Dec-2013
200,    0.5,  100.5,   33,   0.3431  ,12:24:02  ,13-Dec-2013
201,    1.3,  100.6,   34,   0.3476  ,12:25:02  ,13-Dec-2013
202,    1.8,  100.6,   34,   0.3723  ,12:26:02  ,13-Dec-2013
203,   61.7,  100.8,   34,   1.4754  ,12:27:02  ,13-Dec-2013
204,   18.7,  100.8,   34,   1.3970  ,12:28:02  ,13-Dec-2013
205,    0.7,  100.9,   33,   0.5077  ,12:29:02  ,13-Dec-2013
206,    3.5,  100.9,   33,   1.1114  ,12:30:02  ,13-Dec-2013
207,    7.7,  101.1,   33,   1.2004  ,12:31:02  ,13-Dec-2013
208,    1.2,  101.0,   32,   0.5256  ,12:32:02  ,13-Dec-2013
209,    2.4,  101.2,   33,   0.5586  ,12:33:02  ,13-Dec-2013
210,    2.0,  101.2,   33,   0.5630  ,12:34:02  ,13-Dec-2013
211,   21.4,  101.3,   33,   1.9598  ,12:35:02  ,13-Dec-2013
212,    5.0,  101.3,   32,   1.3187  ,12:36:02  ,13-Dec-2013
213,    2.7,  101.5,   32,   0.9812  ,12:37:02  ,13-Dec-2013
214,    0.7,  101.5,   32,   0.4771  ,12:38:02  ,13-Dec-2013
215,    0.7,  101.5,   32,   0.4531  ,12:39:02  ,13-Dec-2013
216,    2.4,  101.6,   33,   0.7037  ,12:40:02  ,13-Dec-2013
217,   21.1,  101.7,   33,   2.3975  ,12:41:02  ,13-Dec-2013
218,   64.5,  101.7,   32,   2.1487  ,12:42:02  ,13-Dec-2013
219,  215.9,  101.7,   32,   2.2297  ,12:43:02  ,13-Dec-2013
220,    0.7,  101.8,   32,   0.3775  ,12:44:02  ,13-Dec-2013
221,    1.0,  101.7,   32,   0.3969  ,12:45:02  ,13-Dec-2013
222,    0.6,  101.8,   32,   0.3754  ,12:46:02  ,13-Dec-2013
223,    5.0,  101.8,   32,   1.0590  ,12:47:02  ,13-Dec-2013
224,    3.0,  101.8,   32,   0.9448  ,12:48:02  ,13-Dec-2013
225,    1.2,  101.9,   31,   0.5525  ,12:49:02  ,13-Dec-2013
226,    1.5,  101.9,   31,   0.4297  ,12:50:02  ,13-Dec-2013
227,    0.6,  101.9,   31,   0.3678  ,12:51:02  ,13-Dec-2013
228,    0.6,  101.9,   31,   0.3672  ,12:52:02  ,13-Dec-2013
229,    0.9,  101.8,   31,   0.3834  ,12:53:02  ,13-Dec-2013
230,    0.7,  101.8,   31,   0.3679  ,12:54:02  ,13-Dec-2013
231,    1.3,  101.8,   32,   0.3947  ,12:55:02  ,13-Dec-2013
```

232,	0.7,	101.9,	31,	0.3709	,12:56:02	,13-Dec-2013
233,	0.8,	101.9,	32,	0.3788	,12:57:02	,13-Dec-2013
234,	0.8,	101.9,	32,	0.4287	,12:58:02	,13-Dec-2013
235,	0.8,	101.9,	32,	0.4204	,12:59:02	,13-Dec-2013
236,	0.6,	101.9,	32,	0.3894	,13:00:02	,13-Dec-2013
237,	0.5,	101.8,	32,	0.3960	,13:01:02	,13-Dec-2013
238,	0.7,	101.8,	32,	0.4183	,13:02:02	,13-Dec-2013
239,	0.8,	101.7,	32,	0.4212	,13:03:02	,13-Dec-2013
240,	1.6,	101.7,	33,	0.5721	,13:04:02	,13-Dec-2013
241,	0.7,	101.7,	33,	0.4445	,13:05:02	,13-Dec-2013
242,	1.3,	101.7,	33,	0.5058	,13:06:02	,13-Dec-2013
243,	1.1,	101.6,	33,	0.4138	,13:07:02	,13-Dec-2013
244,	3.9,	101.6,	34,	0.8007	,13:08:02	,13-Dec-2013
245,	2.2,	101.7,	34,	0.5739	,13:09:02	,13-Dec-2013
246,	2.4,	101.7,	33,	0.4867	,13:10:02	,13-Dec-2013
247,	27.2,	101.6,	33,	2.3828	,13:11:02	,13-Dec-2013
248,	54.3,	101.6,	33,	3.2626	,13:12:02	,13-Dec-2013
249,	1.0,	101.6,	33,	0.5276	,13:13:02	,13-Dec-2013
250,	0.8,	101.6,	33,	0.4846	,13:14:02	,13-Dec-2013
251,	1.2,	101.6,	33,	0.4841	,13:15:02	,13-Dec-2013
252,	0.9,	101.7,	33,	0.4058	,13:16:02	,13-Dec-2013
253,	0.6,	101.7,	33,	0.3664	,13:17:02	,13-Dec-2013
254,	29.3,	101.7,	33,	3.0936	,13:18:02	,13-Dec-2013
255,	17.7,	101.7,	33,	2.6640	,13:19:02	,13-Dec-2013
256,	4.9,	101.7,	33,	1.2317	,13:20:02	,13-Dec-2013
257,	1.3,	101.7,	33,	0.4647	,13:21:02	,13-Dec-2013
258,	16.8,	101.7,	33,	1.4041	,13:22:02	,13-Dec-2013
259,	1.4,	101.7,	33,	0.5137	,13:23:02	,13-Dec-2013
260,	1.4,	101.7,	33,	0.4431	,13:24:02	,13-Dec-2013

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DataRAM 4 SN#:D788 Dev# 2 Tag# 57 start: 13-Dec-2013 09:04:02 interval: 00:01:00
(MASS)ug/m3
Temp (F)
Humidity (RH%)
Diameter (nm)
100
95
90
85
80
75
70
65
60
55
50
45
40
35
30
25
20
15
10
5
0
12/13/13 09:30:00
12/13/13 10:00:00
12/13/13 10:30:00
12/13/13 11:00:00
12/13/13 11:30:00
12/13/13 12:00:00
12/13/13 12:30:00
12/13/13 13:00:00

DataRAM4 SN#:D788 Dev#:2 Tag#:57 start:13-Dec-2013 08:04:02 Interval:00:01:00
(MASS)ug/m3
Temp (F)
Humidity (RH%)
Diameter (nm)
55
50
45
40
35
30
25
20
15
10
5
0
12/13/13 09:30:00
12/13/13 10:00:00
12/13/13 10:30:00
12/13/13 11:00:00
12/13/13 11:30:00
12/13/13 12:00:00
12/13/13 12:30:00
12/13/13 13:00:00

DataRAM4 SN#:D780 Dev#:2 Tag#:57 start:13-Dec-2013 09:04:02 Interval: 00:01:00
(MASS)ug/m3
Temp (F)
Humidity (RH%)
Diameter (nm)
4,000
3,800
3,600
3,400
3,200
3,000
2,800
2,600
2,400
2,200
2,000
1,800
1,600
1,400
1,200
1,000
800
600
400
200
0
12/13/13 09:30:00
12/13/13 10:00:00
12/13/13 10:30:00
12/13/13 11:00:00
12/13/13 11:30:00
12/13/13 12:00:00
12/13/13 12:30:00
12/13/13 13:00:00

ALTOL
Environmental Services, Inc.

P.O Box 359 Mercedita, PR 00715-0359

December 13, 2013

Mr. Benjamin Cintrón
Project Manager
Homeca Recycling

RE: AIR PARTICULATE MONITORING REPORT AT PUERTO RICO OLEFINES, PEÑUELAS, PR.

Dear Mr. Cintrón:

Altol Environmental Services, Inc., submits for your review the results obtained during the air particulates monitoring. These were performed following Altol operational procedures.

Altol's technician installed and removed the Data Ram-4 COM equipment from the Towers located at Puerto Rico Olefines in Peñuelas, PR. The equipment collected data every minute for approximately a eight (8) hour period. Also, during the installation and removal of the equipment the wind direction, wind velocity, weather and other conditions were documented as supplementary information. The wind velocity was measured using the Kestrell 4000 equipment.

Appendix 1 presents **Table 1** which summarizes the results of information collected at the towers. The data collected during this period indicated levels of particulate material (PM_{10}) that do not exceed the regulated limits of the United States Environmental Protection Agency (USEPA) of 150 $\mu g/m^3$ (40 CFR part 50) (**Appendix 2**). The information collected from each tower is presented in graphics in terms of mass and dates (**Appendix 3**).

The following Appendices present the tables and graphics results for mass ($\mu g/m^3$), temperature (^oF), relative humidity (RH) and diameter (nm), obtained from each Data Ram-4 COM equipment:

- **Appendix 4**, correspond to Tower # 1, December 8, 2013.
- **Appendix 5**, correspond to Tower # 2, December 8, 2013.

If you need any further information contact us at your earliest convenience at (787)-835-4242 or (787) 430-6141.

Statement of Authenticity,
Altol Environmental Services, Inc.

Certify that the results are complete and accurate

Cordially,

Carlos E. Ocasio Feliciano
Environmental Higiene

APPENDIX 1
FUGITIVE DUSTS SAMPLING AND TEST RESULTS

TABLE 1. FUGITIVE DUSTS SAMPLING AND ENVIRONMENTAL CONDITIONS

Air Monitoring Date	Air Monitoring Tower	Latitude and Longitude	Equipment Data Ram-4 COM						Equipment Kestrell Model 4000		Field Observation				Sampling Personnel
			Equipment Model/ID#	Start Time	Finish Time	Avg Mass ($\mu g/m^3$)	Regulatory Limits ($\mu g/m3$)	Avg Diameter (nm)	Wind Velocity Start Time (mph)	Wind Velocity Finish Time (mph)	Weather Condition Start Time	Weather Condition Finish Time	Wind Direction Start Time	Wind Direction Finish Time	
12/8/2013 12/8/2013	1		DR4/D787	9:06	13:41	1.92	150	0.44	5.2	4.2	Sunny	Sunny	North	North	JS
12/8/2013 12/8/2013	2		DR4/D788	9:25	13:56	1.75	150	0.45	4.0	5.2	Sunny	Sunny	North	North	JS

Standard Limit = 150 $\mu g/m^3$

Leyend

N/A - Not Aplicable
RV - Robert Velazquez
JRR- Jaime Rivera Rivera
JR- Juan Rivera
JC- Jose Cruz
NH Nehemias Hernandez
JS- José Santos

Towers Location:

Tower #1: PR-503
Tower #2: Disposal Area 3A
Tower #3: Access Road #1
Tower #4: Laboratory Area

ALTOL
Environmental Services, Inc.

Statement of Authenticity,
Certify that the results are complete and accurate

Cordially,

Carlos E. Ocasio Feliciano
Environmental Higiene

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APPENDIX 2
USEPA REGULATION PARAMETER

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National Ambient Air Quality Standards (NAAQS)

The Clean Air Act, which was last amended in 1990, requires EPA to set National Ambient Air Quality Standards (40 CFR part 50) for pollutants considered harmful to public health and the environment. The Clean Air Act established two types of national air quality standards. *Primary standards* set limits to protect public health, including the health of "sensitive" populations such as asthmatics, children, and the elderly. *Secondary standards* set limits to protect public welfare, including protection against decreased visibility, damage to animals, crops, vegetation, and buildings.

The EPA Office of Air Quality Planning and Standards (OAQPS) has set National Ambient Air Quality Standards for six principal pollutants, which are called "criteria" pollutants. They are listed below. Units of measure for the standards are parts per million (ppm) by volume, milligrams per cubic meter of air (mg/m^3), and micrograms per cubic meter of air ($\mu g/m^3$).

National Ambient Air Quality Standards

	Primary Standards		Secondary Standards	
Pollutant	Level	Averaging Time	Level	Averaging Time
Carbon Monoxide	9 ppm (10 mg/m^3)	8-hour [1]	None	
	35 ppm (40 mg/m^3)	1-hour [1]		
Lead	0.15 $\mu g/m^3$ [2]	Rolling 3-Month Average	Same as Primary	
	1.5 $\mu g/m^3$	Quarterly Average	Same as Primary	
Nitrogen Dioxide	0.053 ppm (100 $\mu g/m^3$)	Annual (Arithmetic Mean)	Same as Primary	
Particulate Matter (PM_{10})	150 $\mu g/m^3$	24-hour [3]	Same as Primary	
Particulate Matter ($PM_{2.5}$)	15.0 $\mu g/m^3$	Annual [4] (Arithmetic Mean)	Same as Primary	
	35 $\mu g/m^3$	24-hour [5]	Same as Primary	
Ozone	0.075 ppm (2008 std)	8-hour [6]	Same as Primary	
	0.08 ppm (1997 std)	8-hour [7]	Same as Primary	
	0.12 ppm	1-hour [8] (Applies only in limited areas)	Same as Primary	
Sulfur Dioxide	0.03 ppm	Annual (Arithmetic Mean)	0.5 ppm (1300 $\mu g/m^3$)	3-hour [1]
	0.14 ppm	24-hour [1]		

[1] Not to be exceeded more than once per year.

[2] Final rule signed October 15, 2008.

[3] Not to be exceeded more than once per year on average over 3 years.

[4] To attain this standard, the 3-year average of the weighted annual mean PM2.5 concentrations from single or multiple community-oriented monitors must not exceed 15.0 $\mu g/m3$.

[5] To attain this standard, the 3-year average of the 98th percentile of 24-hour concentrations at each population-oriented monitor within an area must not exceed 35 $\mu g/m3$ (effective December 17, 2006).

[6] To attain this standard, the 3-year average of the fourth-highest daily maximum 8-hour average ozone concentrations measured at each monitor within an area over each year must not exceed 0.075 ppm. (effective May 27, 2008)

[7] (a) To attain this standard, the 3-year average of the fourth-highest daily maximum 8-hour average ozone concentrations measured at each monitor within an area over each year must not exceed 0.08 ppm.

(b) The 1997 standard—and the implementation rules for that standard—will remain in place for implementation purposes as EPA undertakes rulemaking to address the transition from the 1997 ozone standard to the 2008 ozone standard.

[8] (a) The standard is attained when the expected number of days per calendar year with maximum hourly average concentrations above 0.12 ppm is ≤ 1.

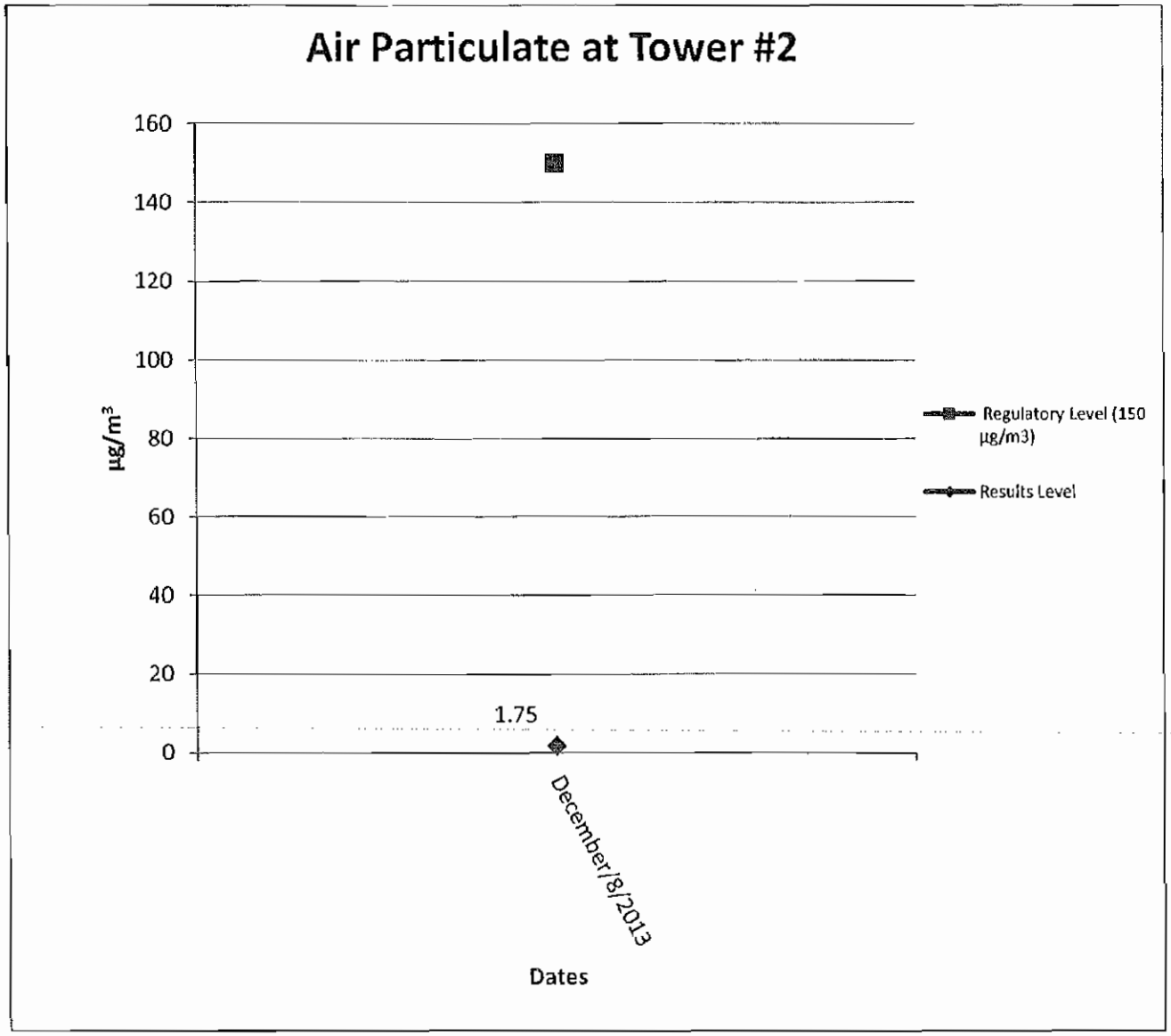
(b) As of June 15, 2005 EPA revoked the 1-hour ozone standard in all areas except the 8-hour ozone nonattainment Early Action Compact (EAC) Areas.

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APPENDIX 3
GRAPHICS OF MASS vs DATE

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Air Particulate at Tower #1
Regulatory Level (150 µg/m3)
Results Level
µg/m³
160
140
120
100
80
60
40
20
0
1.92
December/8/2013
Dates



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APPENDIX 4
TOWER #1 AIR PARTICULATE MONITORING

"Model Number", "DataRAM 4 ", 106
Serial no. ", "D787 "
"Device no. ", 1 Norte, PR, OLEFINS
"Tag Number ", 61
Start Time ", 09:05:31
Start Date ", 08-Dec-2013
"Log Period ", 00:01:00
Number ", 276
CalFactor ", 1.000000
"Unit ", 0
"Unit Name ", "(MASS)ug/m3"
SIZE_CORRECT", "ENABLED"
TEMPUNITS ", F
"Max MASS ", 7.583237
Max MASS @ ", ,13:59:31 ,08-Dec-2013
Avg MASS ", 1.917386
"Max Diam ", 1.505487
"Max Diam @ ", ,09:04:31 ,08-Dec-2013
Avg Diam ", 0.441015
"ALARM ", "DISABLED"
"ALARM_LEVEL ", 0.0
AUTO_ZERO ", "DISABLED"
AZ INTERVAL ", 1
"Errors ", 0000

ecord	"(MASS)ug/m3"	Temp,	RHumidity,	Diameter		
1,	2.3,	75.6,	49,	0.38	,09:06:31	,08-Dec-2013
2,	2.0,	75.7,	54,	0.39	,09:07:31	,08-Dec-2013
3,	2.2,	75.8,	56,	0.41	,09:08:31	,08-Dec-2013
4,	2.2,	76.0,	58,	0.41	,09:09:31	,08-Dec-2013
5,	1.9,	76.2,	60,	0.42	,09:10:31	,08-Dec-2013
6,	1.8,	76.4,	61,	0.43	,09:11:31	,08-Dec-2013
7,	1.9,	76.5,	62,	0.49	,09:12:31	,08-Dec-2013
8,	1.9,	76.6,	62,	0.46	,09:13:31	,08-Dec-2013
9,	2.0,	76.9,	62,	0.43	,09:14:31	,08-Dec-2013
10,	1.7,	77.0,	63,	0.43	,09:15:31	,08-Dec-2013
11,	1.9,	77.2,	63,	0.41	,09:16:31	,08-Dec-2013
12,	2.1,	77.4,	64,	0.38	,09:17:31	,08-Dec-2013
13,	2.0,	77.6,	64,	0.41	,09:18:31	,08-Dec-2013
14,	2.1,	77.9,	64,	0.41	,09:19:31	,08-Dec-2013
15,	2.3,	78.1,	64,	0.40	,09:20:31	,08-Dec-2013
16,	2.2,	78.2,	64,	0.39	,09:21:31	,08-Dec-2013
17,	2.0,	78.4,	64,	0.43	,09:22:31	,08-Dec-2013
18,	2.2,	78.7,	64,	0.49	,09:23:31	,08-Dec-2013
19,	2.1,	78.9,	63,	0.53	,09:24:31	,08-Dec-2013
20,	2.3,	79.0,	63,	0.51	,09:25:31	,08-Dec-2013
21,	2.3,	79.2,	63,	0.41	,09:26:31	,08-Dec-2013
22,	2.1,	79.4,	63,	0.41	,09:27:31	,08-Dec-2013
23,	2.2,	79.7,	63,	0.44	,09:28:31	,08-Dec-2013
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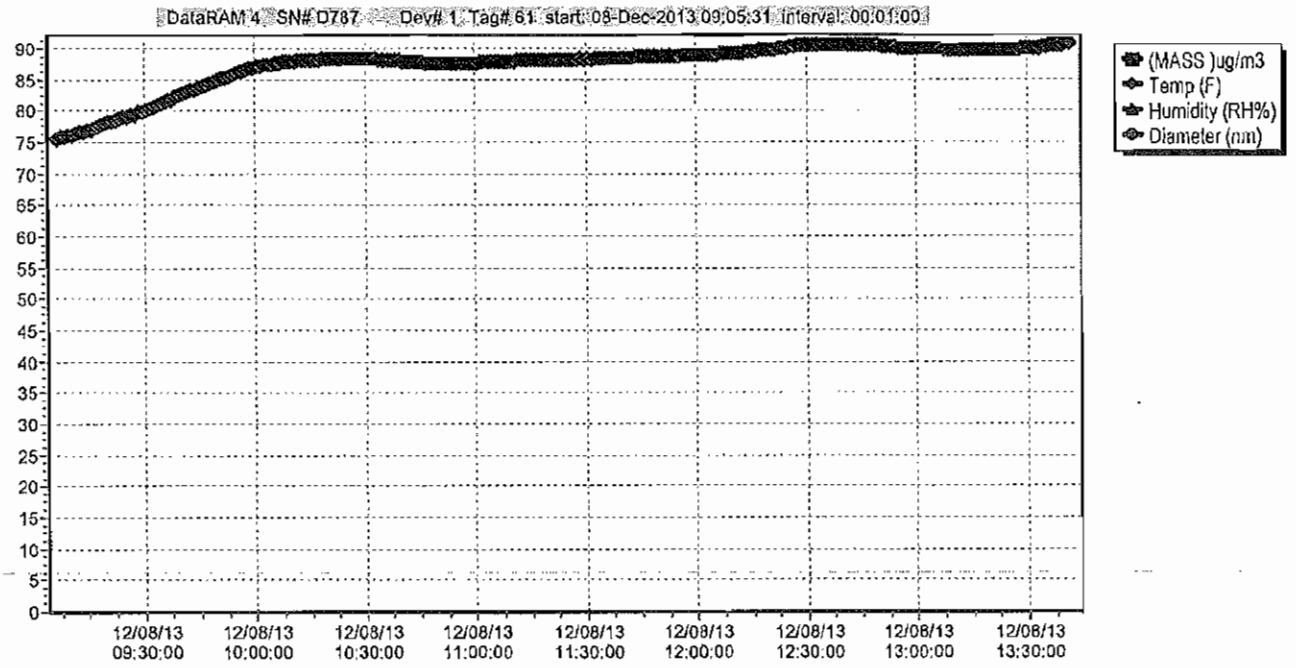
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249,	2.1,	89.8,	48,	0.41	,13:14:31	,08-Dec-2013
250,	1.8,	89.8,	48,	0.41	,13:15:31	,08-Dec-2013
251,	2.2,	89.7,	48,	0.46	,13:16:31	,08-Dec-2013
252,	2.2,	89.7,	48,	0.42	,13:17:31	,08-Dec-2013
253,	1.8,	89.7,	48,	0.40	,13:18:31	,08-Dec-2013
254,	1.9,	89.7,	48,	0.41	,13:19:31	,08-Dec-2013
255,	1.9,	89.7,	48,	0.43	,13:20:31	,08-Dec-2013
256,	1.9,	89.7,	48,	0.49	,13:21:31	,08-Dec-2013
257,	2.0,	89.7,	48,	0.47	,13:22:31	,08-Dec-2013
258,	1.7,	89.7,	48,	0.44	,13:23:31	,08-Dec-2013
259,	2.0,	89.7,	48,	0.44	,13:24:31	,08-Dec-2013
260,	1.8,	89.7,	48,	0.39	,13:25:31	,08-Dec-2013
261,	1.5,	89.8,	48,	0.37	,13:26:31	,08-Dec-2013
262,	1.8,	89.8,	48,	0.36	,13:27:31	,08-Dec-2013
263,	1.5,	89.9,	48,	0.34	,13:28:31	,08-Dec-2013
264,	1.8,	89.9,	48,	0.34	,13:29:31	,08-Dec-2013
265,	1.8,	90.0,	48,	0.35	,13:30:31	,08-Dec-2013
266,	2.1,	90.0,	48,	0.36	,13:31:31	,08-Dec-2013
267,	1.8,	90.1,	48,	0.37	,13:32:31	,08-Dec-2013
268,	1.6,	90.1,	48,	0.38	,13:33:31	,08-Dec-2013
269,	1.9,	90.3,	48,	0.37	,13:34:31	,08-Dec-2013
270,	1.5,	90.3,	48,	0.35	,13:35:31	,08-Dec-2013
271,	1.9,	90.4,	48,	0.39	,13:36:31	,08-Dec-2013
272,	1.7,	90.5,	48,	0.40	,13:37:31	,08-Dec-2013
273,	1.7,	90.6,	48,	0.40	,13:38:31	,08-Dec-2013
274,	1.6,	90.6,	47,	0.40	,13:39:31	,08-Dec-2013
275,	1.2,	90.7,	47,	0.38	,13:40:31	,08-Dec-2013
276,	1.5,	90.8,	47,	0.37	,13:41:31	,08-Dec-2013

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DataRAM 4 SN# D787 Dev# 1 Tag# 61 start 08-Dec-2013 09:05:31 interval 00:01:00
(MASS)ug/m3
Temp (F)
Humidity (RH%)
Diameter (nm)
1,500
1,400
1,300
1,200
1,100
1,000
900
800
700
600
500
400
300
200
100
0
12/08/13 09:30:00
12/08/13 10:00:00
12/08/13 10:30:00
12/08/13 11:00:00
12/08/13 11:30:00
12/08/13 12:00:00
12/08/13 12:30:00
12/08/13 13:00:00
12/08/13 13:30:00

APPENDIX 5

TOWER #2 AIR PARTICULATE MONITORING

"Model Number", "DataRAM 4 ", 106
Serial no. ", "D788 "
"Device no. ", 2 a1 sur ,PR. OLEFINS
"Tag Number ", 53
Start Time ", 09:24:31
Start Date ", 08-Dec-2013
"Log Period ", 00:01:00
Number ", 272
CalFactor ", 1.000000
"Unit ", 0
"Unit Name ", "(MASS)ug/m3"
SIZE_CORRECT", "ENABLED"
"TEMPUNITS ", F
"Max MASS ", 3.144967
Max MASS @ ", ,02:35:31 ,08-Dec-2013
Avg MASS ", 1.752756
"Max Diam ", 0.701418
"Max Diam @ ", 1 ,09:23:31 ,08-Dec-2013
Avg Diam ", 0.454193
"ALARM ", "DISABLED"
"ALARM_LEVEL ", 0.0
AUTO_ZERO ", "DISABLED"
AZ INTERVAL ", 1
"Errors ", 0000
ecord,"(MASS)ug/m3", Temp, RHumidity, Diameter

1,	3.1,	76.6,	48,	0.49	,09:25:31 ,08-Dec-2013
2,	2.4,	76.7,	53,	0.54	,09:26:31 ,08-Dec-2013
3,	2.2,	77.0,	56,	0.52	,09:27:31 ,08-Dec-2013
4,	2.0,	77.2,	58,	0.45	,09:28:31 ,08-Dec-2013
5,	2.4,	77.4,	59,	0.43	,09:29:31 ,08-Dec-2013
6,	1.8,	77.7,	60,	0.40	,09:30:31 ,08-Dec-2013
7,	1.8,	77.9,	60,	0.38	,09:31:31 ,08-Dec-2013
8,	1.9,	78.1,	61,	0.37	,09:32:31 ,08-Dec-2013
9,	1.9,	78.4,	61,	0.40	,09:33:31 ,08-Dec-2013
10,	2.0,	78.7,	60,	0.42	,09:34:31 ,08-Dec-2013
11,	2.1,	78.9,	60,	0.46	,09:35:31 ,08-Dec-2013
12,	2.1,	79.2,	60,	0.49	,09:36:31 ,08-Dec-2013
13,	2.1,	79.5,	60,	0.46	,09:37:31 ,08-Dec-2013
14,	1.8,	79.7,	59,	0.43	,09:38:31 ,08-Dec-2013
15,	2.5,	80.0,	59,	0.46	,09:39:31 ,08-Dec-2013
16,	2.0,	80.3,	59,	0.42	,09:40:31 ,08-Dec-2013
17,	2.1,	80.6,	59,	0.47	,09:41:31 ,08-Dec-2013
18,	1.8,	80.8,	59,	0.45	,09:42:31 ,08-Dec-2013
19,	1.8,	81.1,	59,	0.42	,09:43:31 ,08-Dec-2013
20,	2.3,	81.4,	58,	0.41	,09:44:31 ,08-Dec-2013
21,	2.1,	81.7,	58,	0.36	,09:45:31 ,08-Dec-2013
22,	1.9,	82.0,	57,	0.36	,09:46:31 ,08-Dec-2013
23,	1.8,	82.3,	57,	0.37	,09:47:31 ,08-Dec-2013
24,	1.9,	82.6,	57,	0.36	,09:48:31 ,08-Dec-2013
25,	2.2,	82.9,	56,	0.38	,09:49:31 ,08-Dec-2013
26,	2.7,	83.3,	56,	0.65	,09:50:31 ,08-Dec-2013
27,	2.0,	83.6,	55,	0.55	,09:51:31 ,08-Dec-2013
28,	1.8,	83.9,	55,	0.53	,09:52:31 ,08-Dec-2013
29,	2.1,	84.2,	54,	0.52	,09:53:31 ,08-Dec-2013
30,	1.8,	84.5,	54,	0.45	,09:54:31 ,08-Dec-2013
31,	2.2,	84.9,	54,	0.48	,09:55:31 ,08-Dec-2013
32,	2.0,	85.2,	53,	0.44	,09:56:31 ,08-Dec-2013
33,	1.7,	85.5,	53,	0.43	,09:57:31 ,08-Dec-2013
34,	2.0,	86.0,	53,	0.44	,09:58:31 ,08-Dec-2013
35,	1.6,	86.3,	52,	0.40	,09:59:31 ,08-Dec-2013
36,	1.8,	86.6,	52,	0.42	,10:00:31 ,08-Dec-2013
37,	2.0,	87.0,	52,	0.43	,10:01:31 ,08-Dec-2013
38,	1.6,	87.2,	51,	0.44	,10:02:31 ,08-Dec-2013
39,	1.8,	87.5,	51,	0.47	,10:03:31 ,08-Dec-2013

40,	1.4,	87.8,	50,	0.41	,10:04:31	,08-Dec-2013
41,	1.8,	88.0,	50,	0.42	,10:05:31	,08-Dec-2013
42,	1.7,	88.2,	49,	0.42	,10:06:31	,08-Dec-2013
43,	1.7,	88.5,	49,	0.42	,10:07:31	,08-Dec-2013
44,	1.4,	88.7,	48,	0.47	,10:08:31	,08-Dec-2013
45,	1.6,	88.9,	48,	0.52	,10:09:31	,08-Dec-2013
46,	1.7,	89.1,	47,	0.53	,10:10:31	,08-Dec-2013
47,	1.7,	89.2,	47,	0.52	,10:11:31	,08-Dec-2013
48,	1.5,	89.3,	46,	0.47	,10:12:31	,08-Dec-2013
49,	1.8,	89.5,	46,	0.46	,10:13:31	,08-Dec-2013
50,	1.8,	89.6,	46,	0.43	,10:14:31	,08-Dec-2013
51,	1.7,	89.7,	46,	0.42	,10:15:31	,08-Dec-2013
52,	1.9,	89.7,	46,	0.43	,10:16:31	,08-Dec-2013
53,	1.8,	89.8,	46,	0.43	,10:17:31	,08-Dec-2013
54,	1.8,	89.9,	46,	0.46	,10:18:31	,08-Dec-2013
55,	1.6,	90.0,	46,	0.45	,10:19:31	,08-Dec-2013
56,	1.9,	90.0,	46,	0.48	,10:20:31	,08-Dec-2013
57,	1.5,	90.1,	45,	0.44	,10:21:31	,08-Dec-2013
58,	1.6,	90.2,	45,	0.45	,10:22:31	,08-Dec-2013
59,	1.4,	90.3,	45,	0.41	,10:23:31	,08-Dec-2013
60,	1.8,	90.4,	45,	0.44	,10:24:31	,08-Dec-2013
61,	1.9,	90.4,	45,	0.43	,10:25:31	,08-Dec-2013
62,	1.8,	90.5,	45,	0.40	,10:26:31	,08-Dec-2013
63,	1.6,	90.5,	45,	0.40	,10:27:31	,08-Dec-2013
64,	2.0,	90.5,	44,	0.40	,10:28:31	,08-Dec-2013
65,	1.9,	90.6,	44,	0.41	,10:29:31	,08-Dec-2013
66,	1.6,	90.6,	44,	0.41	,10:30:31	,08-Dec-2013
67,	1.6,	90.6,	44,	0.41	,10:31:31	,08-Dec-2013
68,	1.8,	90.6,	44,	0.43	,10:32:31	,08-Dec-2013
69,	1.7,	90.6,	44,	0.41	,10:33:31	,08-Dec-2013
70,	2.1,	90.6,	44,	0.43	,10:34:31	,08-Dec-2013
71,	1.9,	90.6,	44,	0.41	,10:35:31	,08-Dec-2013
72,	1.8,	90.6,	44,	0.42	,10:36:31	,08-Dec-2013
73,	1.8,	90.6,	44,	0.42	,10:37:31	,08-Dec-2013
74,	1.4,	90.5,	44,	0.43	,10:38:31	,08-Dec-2013
75,	1.6,	90.5,	44,	0.45	,10:39:31	,08-Dec-2013
76,	1.7,	90.5,	45,	0.39	,10:40:31	,08-Dec-2013
77,	1.6,	90.4,	45,	0.37	,10:41:31	,08-Dec-2013
78,	1.5,	90.4,	45,	0.37	,10:42:31	,08-Dec-2013
79,	1.8,	90.4,	45,	0.38	,10:43:31	,08-Dec-2013
80,	1.8,	90.4,	45,	0.48	,10:44:31	,08-Dec-2013
81,	1.7,	90.3,	45,	0.48	,10:45:31	,08-Dec-2013
82,	1.8,	90.2,	45,	0.46	,10:46:31	,08-Dec-2013
83,	1.5,	90.2,	45,	0.41	,10:47:31	,08-Dec-2013
84,	1.5,	90.1,	45,	0.44	,10:48:31	,08-Dec-2013
85,	1.4,	90.1,	45,	0.43	,10:49:31	,08-Dec-2013
86,	1.6,	90.0,	45,	0.45	,10:50:31	,08-Dec-2013
87,	1.7,	90.0,	45,	0.45	,10:51:31	,08-Dec-2013
88,	1.5,	89.9,	45,	0.43	,10:52:31	,08-Dec-2013
89,	1.9,	89.9,	45,	0.46	,10:53:31	,08-Dec-2013
90,	1.4,	89.9,	46,	0.40	,10:54:31	,08-Dec-2013
91,	1.5,	89.9,	45,	0.40	,10:55:31	,08-Dec-2013
92,	1.3,	89.8,	45,	0.40	,10:56:31	,08-Dec-2013
93,	1.6,	89.8,	45,	0.41	,10:57:31	,08-Dec-2013
94,	1.7,	89.8,	46,	0.43	,10:58:31	,08-Dec-2013
95,	1.5,	89.7,	46,	0.41	,10:59:31	,08-Dec-2013
96,	1.3,	89.7,	46,	0.39	,11:00:31	,08-Dec-2013
97,	1.6,	89.7,	46,	0.41	,11:01:31	,08-Dec-2013
98,	1.3,	89.7,	46,	0.37	,11:02:31	,08-Dec-2013
99,	1.4,	89.7,	46,	0.37	,11:03:31	,08-Dec-2013
100,	1.3,	89.6,	46,	0.37	,11:04:31	,08-Dec-2013
101,	1.5,	89.6,	46,	0.37	,11:05:31	,08-Dec-2013
102,	1.7,	89.6,	46,	0.38	,11:06:31	,08-Dec-2013
103,	1.3,	89.7,	46,	0.38	,11:07:31	,08-Dec-2013

104,	1.9,	89.6,	46,	0.39	,11:08:31	,08-Dec-2013
105,	1.5,	89.7,	46,	0.37	,11:09:31	,08-Dec-2013
106,	1.4,	89.7,	46,	0.37	,11:10:31	,08-Dec-2013
107,	1.5,	89.7,	46,	0.38	,11:11:31	,08-Dec-2013
108,	1.6,	89.7,	46,	0.38	,11:12:31	,08-Dec-2013
109,	1.7,	89.7,	46,	0.39	,11:13:31	,08-Dec-2013
110,	1.6,	89.7,	45,	0.38	,11:14:31	,08-Dec-2013
111,	1.5,	89.7,	45,	0.38	,11:15:31	,08-Dec-2013
112,	1.6,	89.7,	45,	0.40	,11:16:31	,08-Dec-2013
113,	1.5,	89.7,	45,	0.40	,11:17:31	,08-Dec-2013
114,	1.7,	89.8,	45,	0.41	,11:18:31	,08-Dec-2013
115,	1.3,	89.8,	45,	0.41	,11:19:31	,08-Dec-2013
116,	1.4,	89.8,	45,	0.41	,11:20:31	,08-Dec-2013
117,	1.6,	89.7,	45,	0.42	,11:21:31	,08-Dec-2013
118,	1.6,	89.7,	45,	0.42	,11:22:31	,08-Dec-2013
119,	1.5,	89.8,	45,	0.41	,11:23:31	,08-Dec-2013
120,	1.7,	89.8,	45,	0.45	,11:24:31	,08-Dec-2013
121,	1.7,	89.7,	45,	0.49	,11:25:31	,08-Dec-2013
122,	2.0,	89.8,	45,	0.48	,11:26:31	,08-Dec-2013
123,	1.5,	89.8,	45,	0.40	,11:27:31	,08-Dec-2013
124,	1.7,	89.8,	44,	0.41	,11:28:31	,08-Dec-2013
125,	1.7,	89.8,	44,	0.44	,11:29:31	,08-Dec-2013
126,	1.8,	89.9,	44,	0.45	,11:30:31	,08-Dec-2013
127,	1.9,	89.9,	44,	0.47	,11:31:31	,08-Dec-2013
128,	1.7,	90.0,	44,	0.43	,11:32:31	,08-Dec-2013
129,	1.8,	90.0,	44,	0.46	,11:33:31	,08-Dec-2013
130,	2.0,	90.1,	44,	0.40	,11:34:31	,08-Dec-2013
131,	1.5,	90.1,	44,	0.40	,11:35:31	,08-Dec-2013
132,	1.7,	90.2,	44,	0.40	,11:36:31	,08-Dec-2013
133,	1.9,	90.2,	44,	0.40	,11:37:31	,08-Dec-2013
134,	1.8,	90.3,	44,	0.39	,11:38:31	,08-Dec-2013
135,	1.4,	90.4,	44,	0.39	,11:39:31	,08-Dec-2013
136,	1.7,	90.4,	44,	0.48	,11:40:31	,08-Dec-2013
137,	1.5,	90.5,	44,	0.47	,11:41:31	,08-Dec-2013
138,	1.8,	90.5,	44,	0.48	,11:42:31	,08-Dec-2013
139,	1.8,	90.5,	44,	0.46	,11:43:31	,08-Dec-2013
140,	1.7,	90.6,	44,	0.42	,11:44:31	,08-Dec-2013
141,	1.8,	90.6,	43,	0.42	,11:45:31	,08-Dec-2013
142,	1.7,	90.6,	44,	0.40	,11:46:31	,08-Dec-2013
143,	2.1,	90.6,	43,	0.41	,11:47:31	,08-Dec-2013
144,	1.7,	90.7,	43,	0.39	,11:48:31	,08-Dec-2013
145,	1.7,	90.7,	43,	0.42	,11:49:31	,08-Dec-2013
146,	1.7,	90.7,	43,	0.45	,11:50:31	,08-Dec-2013
147,	1.8,	90.7,	43,	0.46	,11:51:31	,08-Dec-2013
148,	2.2,	90.7,	43,	0.49	,11:52:31	,08-Dec-2013
149,	2.0,	90.7,	43,	0.46	,11:53:31	,08-Dec-2013
150,	2.1,	90.7,	43,	0.52	,11:54:31	,08-Dec-2013
151,	1.7,	90.7,	43,	0.51	,11:55:31	,08-Dec-2013
152,	2.1,	90.8,	43,	0.59	,11:56:31	,08-Dec-2013
153,	1.9,	90.8,	43,	0.51	,11:57:31	,08-Dec-2013
154,	2.1,	90.8,	43,	0.56	,11:58:31	,08-Dec-2013
155,	1.8,	90.8,	43,	0.45	,11:59:31	,08-Dec-2013
156,	2.1,	90.8,	43,	0.44	,12:00:31	,08-Dec-2013
157,	2.2,	90.8,	43,	0.44	,12:01:31	,08-Dec-2013
158,	1.9,	90.8,	43,	0.44	,12:02:31	,08-Dec-2013
159,	1.6,	90.8,	43,	0.50	,12:03:31	,08-Dec-2013
160,	1.9,	90.8,	43,	0.54	,12:04:31	,08-Dec-2013
161,	1.7,	90.9,	42,	0.51	,12:05:31	,08-Dec-2013
162,	2.1,	90.9,	42,	0.54	,12:06:31	,08-Dec-2013
163,	1.9,	90.9,	42,	0.58	,12:07:31	,08-Dec-2013
164,	1.7,	90.9,	42,	0.51	,12:08:31	,08-Dec-2013
165,	1.7,	90.9,	42,	0.48	,12:09:31	,08-Dec-2013
166,	1.9,	90.8,	42,	0.50	,12:10:31	,08-Dec-2013
167,	1.9,	90.8,	42,	0.55	,12:11:31	,08-Dec-2013

168,	1.7,	90.8,	42,	0.48	,12:12:31	,08-Dec-2013
169,	1.7,	90.9,	42,	0.50	,12:13:31	,08-Dec-2013
170,	1.8,	90.9,	42,	0.49	,12:14:31	,08-Dec-2013
171,	1.8,	90.9,	42,	0.50	,12:15:31	,08-Dec-2013
172,	1.8,	90.9,	42,	0.55	,12:16:31	,08-Dec-2013
173,	1.8,	90.9,	42,	0.49	,12:17:31	,08-Dec-2013
174,	1.8,	90.9,	42,	0.57	,12:18:31	,08-Dec-2013
175,	2.2,	90.9,	42,	0.70	,12:19:31	,08-Dec-2013
176,	1.8,	90.9,	42,	0.52	,12:20:31	,08-Dec-2013
177,	1.8,	90.9,	42,	0.52	,12:21:31	,08-Dec-2013
178,	2.2,	91.0,	42,	0.68	,12:22:31	,08-Dec-2013
179,	2.2,	91.0,	42,	0.65	,12:23:31	,08-Dec-2013
180,	1.7,	91.0,	42,	0.45	,12:24:31	,08-Dec-2013
181,	1.6,	91.1,	42,	0.44	,12:25:31	,08-Dec-2013
182,	2.0,	91.1,	42,	0.48	,12:26:31	,08-Dec-2013
183,	1.6,	91.1,	42,	0.47	,12:27:31	,08-Dec-2013
184,	1.6,	91.3,	42,	0.44	,12:28:31	,08-Dec-2013
185,	1.8,	91.3,	42,	0.48	,12:29:31	,08-Dec-2013
186,	2.2,	91.4,	42,	0.53	,12:30:31	,08-Dec-2013
187,	2.0,	91.5,	42,	0.46	,12:31:31	,08-Dec-2013
188,	1.5,	91.7,	42,	0.45	,12:32:31	,08-Dec-2013
189,	1.5,	91.7,	42,	0.45	,12:33:31	,08-Dec-2013
190,	1.5,	91.9,	42,	0.52	,12:34:31	,08-Dec-2013
191,	2.1,	92.0,	42,	0.55	,12:35:31	,08-Dec-2013
192,	1.8,	92.1,	42,	0.43	,12:36:31	,08-Dec-2013
193,	1.7,	92.1,	42,	0.44	,12:37:31	,08-Dec-2013
194,	1.8,	92.2,	42,	0.48	,12:38:31	,08-Dec-2013
195,	2.2,	92.2,	42,	0.48	,12:39:31	,08-Dec-2013
196,	2.0,	92.3,	42,	0.40	,12:40:31	,08-Dec-2013
197,	1.6,	92.3,	42,	0.40	,12:41:31	,08-Dec-2013
198,	1.6,	92.3,	42,	0.39	,12:42:31	,08-Dec-2013
199,	1.8,	92.3,	42,	0.41	,12:43:31	,08-Dec-2013
200,	1.8,	92.4,	42,	0.41	,12:44:31	,08-Dec-2013
201,	1.8,	92.4,	42,	0.41	,12:45:31	,08-Dec-2013
202,	1.7,	92.5,	42,	0.42	,12:46:31	,08-Dec-2013
203,	2.0,	92.5,	41,	0.41	,12:47:31	,08-Dec-2013
204,	1.7,	92.5,	42,	0.42	,12:48:31	,08-Dec-2013
205,	1.8,	92.5,	41,	0.48	,12:49:31	,08-Dec-2013
206,	2.0,	92.5,	42,	0.54	,12:50:31	,08-Dec-2013
207,	2.1,	92.5,	42,	0.57	,12:51:31	,08-Dec-2013
208,	1.9,	92.5,	41,	0.51	,12:52:31	,08-Dec-2013
209,	1.8,	92.6,	41,	0.52	,12:53:31	,08-Dec-2013
210,	1.7,	92.6,	41,	0.51	,12:54:31	,08-Dec-2013
211,	1.9,	92.6,	41,	0.49	,12:55:31	,08-Dec-2013
212,	1.9,	92.6,	41,	0.44	,12:56:31	,08-Dec-2013
213,	1.8,	92.6,	42,	0.43	,12:57:31	,08-Dec-2013
214,	1.8,	92.6,	41,	0.46	,12:58:31	,08-Dec-2013
215,	2.1,	92.6,	41,	0.53	,12:59:31	,08-Dec-2013
216,	1.4,	92.6,	42,	0.46	,13:00:31	,08-Dec-2013
217,	1.4,	92.6,	42,	0.49	,13:01:31	,08-Dec-2013
218,	1.6,	92.6,	42,	0.47	,13:02:31	,08-Dec-2013
219,	1.5,	92.6,	41,	0.45	,13:03:31	,08-Dec-2013
220,	1.5,	92.6,	42,	0.45	,13:04:31	,08-Dec-2013
221,	2.0,	92.6,	42,	0.51	,13:05:31	,08-Dec-2013
222,	1.8,	92.6,	42,	0.48	,13:06:31	,08-Dec-2013
223,	1.8,	92.6,	42,	0.45	,13:07:31	,08-Dec-2013
224,	1.8,	92.7,	42,	0.45	,13:08:31	,08-Dec-2013
225,	1.7,	92.7,	42,	0.44	,13:09:31	,08-Dec-2013
226,	1.9,	92.7,	42,	0.50	,13:10:31	,08-Dec-2013
227,	1.8,	92.7,	42,	0.46	,13:11:31	,08-Dec-2013
228,	1.5,	92.7,	41,	0.48	,13:12:31	,08-Dec-2013
229,	1.6,	92.7,	42,	0.48	,13:13:31	,08-Dec-2013
230,	1.9,	92.7,	42,	0.64	,13:14:31	,08-Dec-2013
231,	1.9,	92.6,	42,	0.63	,13:15:31	,08-Dec-2013

232,	2.0,	92.7,	42,	0.55	,13:16:31	,08-Dec-2013
233,	1.2,	92.7,	42,	0.46	,13:17:31	,08-Dec-2013
234,	1.6,	92.7,	41,	0.51	,13:18:31	,08-Dec-2013
235,	1.8,	92.7,	41,	0.47	,13:19:31	,08-Dec-2013
236,	1.4,	92.6,	41,	0.42	,13:20:31	,08-Dec-2013
237,	1.9,	92.6,	41,	0.45	,13:21:31	,08-Dec-2013
238,	1.7,	92.6,	42,	0.43	,13:22:31	,08-Dec-2013
239,	1.8,	92.5,	41,	0.43	,13:23:31	,08-Dec-2013
240,	1.8,	92.5,	42,	0.42	,13:24:31	,08-Dec-2013
241,	1.9,	92.5,	42,	0.43	,13:25:31	,08-Dec-2013
242,	2.0,	92.5,	42,	0.52	,13:26:31	,08-Dec-2013
243,	1.7,	92.4,	42,	0.50	,13:27:31	,08-Dec-2013
244,	2.0,	92.4,	42,	0.58	,13:28:31	,08-Dec-2013
245,	1.6,	92.4,	42,	0.51	,13:29:31	,08-Dec-2013
246,	1.6,	92.4,	42,	0.44	,13:30:31	,08-Dec-2013
247,	1.7,	92.3,	42,	0.43	,13:31:31	,08-Dec-2013
248,	1.5,	92.3,	42,	0.45	,13:32:31	,08-Dec-2013
249,	1.4,	92.3,	42,	0.44	,13:33:31	,08-Dec-2013
250,	1.8,	92.3,	42,	0.42	,13:34:31	,08-Dec-2013
251,	1.5,	92.4,	42,	0.37	,13:35:31	,08-Dec-2013
252,	1.3,	92.4,	42,	0.39	,13:36:31	,08-Dec-2013
253,	1.6,	92.4,	42,	0.42	,13:37:31	,08-Dec-2013
254,	1.7,	92.5,	42,	0.45	,13:38:31	,08-Dec-2013
255,	1.4,	92.5,	42,	0.43	,13:39:31	,08-Dec-2013
256,	1.2,	92.6,	42,	0.42	,13:40:31	,08-Dec-2013
257,	1.1,	92.6,	42,	0.42	,13:41:31	,08-Dec-2013
258,	1.5,	92.7,	42,	0.41	,13:42:31	,08-Dec-2013
259,	1.7,	92.7,	42,	0.42	,13:43:31	,08-Dec-2013
260,	1.4,	92.7,	42,	0.40	,13:44:31	,08-Dec-2013
261,	1.6,	92.8,	42,	0.41	,13:45:31	,08-Dec-2013
262,	1.3,	92.8,	42,	0.39	,13:46:31	,08-Dec-2013
263,	1.6,	92.9,	42,	0.41	,13:47:31	,08-Dec-2013
264,	1.4,	93.0,	42,	0.39	,13:48:31	,08-Dec-2013
265,	2.0,	93.0,	41,	0.41	,13:49:31	,08-Dec-2013
266,	1.8,	93.0,	41,	0.40	,13:50:31	,08-Dec-2013
267,	1.4,	93.0,	41,	0.40	,13:51:31	,08-Dec-2013
268,	1.4,	93.0,	42,	0.40	,13:52:31	,08-Dec-2013
269,	1.4,	93.0,	42,	0.40	,13:53:31	,08-Dec-2013
270,	1.1,	93.0,	41,	0.38	,13:54:31	,08-Dec-2013
271,	1.9,	92.9,	42,	0.43	,13:55:31	,08-Dec-2013
272,	1.6,	93.0,	42,	0.41	,13:56:31	,08-Dec-2013

(MASS)ug/m3
Temp (F)
Humidity (RH%)
Diameter (nm)
DataRAM 4 SN#:D788 Day#:2 Tag#:S8 start: 08-Dec-2013 09:24:31 Interval: 00:01:00
3
2
1
0
12/08/13 09:30:00
12/08/13 10:00:00
12/08/13 10:30:00
12/08/13 11:00:00
12/08/13 11:30:00
12/08/13 12:00:00
12/08/13 12:30:00
12/08/13 13:00:00
12/08/13 13:30:00

DataRAM 4 SN#:D788 Dev#:2 Tag#:53 Start: 08 Dec 2013 09:24:31 Interval: 00:01:00
(MASS ug/m3
Temp (F)
Humidity (RH%)
Diameter (nm)
90
85
80
75
70
65
60
55
50
45
40
35
30
25
20
15
10
5
0
12/08/13 09:30:00
12/08/13 10:00:00
12/08/13 10:30:00
12/08/13 11:00:00
12/08/13 11:30:00
12/08/13 12:00:00
12/08/13 12:30:00
12/08/13 13:00:00
12/08/13 13:30:00

DataRAM4 SN#:D7188 Dev#:2 Tag#:53 start:08:Dec:2013 09:24:31 Interval:00:01:00
(MASS)ug/m3
Temp (F)
Humidity (RH%)
Diameter (nm)
60
55
50
45
40
35
30
25
20
15
10
5
0
12/08/13 09:30:00
12/08/13 10:00:00
12/08/13 10:30:00
12/08/13 11:00:00
12/08/13 11:30:00
12/08/13 12:00:00
12/08/13 12:30:00
12/08/13 13:00:00
12/08/13 13:30:00

Data(RAM-4 SN#:0796 Dev#:2 Tag#:53 start: 08-Dec-2013 09:24:31 interval: 00:01:00
(MASS)ug/m3
Temp (F)
Humidity (RH%)
Diameter (nm)
700
650
600
550
500
450
400
350
300
250
200
150
100
50
0
12/08/13 09:30:00
12/08/13 10:00:00
12/08/13 10:30:00
12/08/13 11:00:00
12/08/13 11:30:00
12/08/13 12:00:00
12/08/13 12:30:00
12/08/13 13:00:00
12/08/13 13:30:00

ALTOL
Environmental Services, Inc.

P.O Box 359 Mercedita, PR 00715-0359

December 13, 2013

Mr. Benjamin Cintrón
Project Manager
Homeca Recycling

RE: AIR PARTICULATE MONITORING REPORT AT PUERTO RICO OLEFINES, PEÑUELAS, PR.

Dear Mr. Cintrón:

Altol Environmental Services, Inc., submits for your review the results obtained during the air particulates monitoring. These were performed following Altol operational procedures.

Altol's technician installed and removed the Data Ram-4 COM equipment from the Towers located at Puerto Rico Olefines in Peñuelas, PR. The equipment collected data every minute for approximately a eight (8) hour period. Also, during the installation and removal of the equipment the wind direction, wind velocity, weather and other conditions were documented as supplementary information. The wind velocity was measured using the Kestrell 4000 equipment.

Appendix 1 presents **Table 1** which summarizes the results of information collected at the towers. The data collected during this period indicated levels of particulate material (PM_{10}) that do not exceed the regulated limits of the United States Environmental Protection Agency (USEPA) of 150 $\mu g/m^3$ (40 CFR part 50) (**Appendix 2**). The information collected from each tower is presented in graphics in terms of mass and dates (**Appendix 3**).

The following Appendices present the tables and graphics results for mass ($\mu g/m^3$), temperature (^oF), relative humidity (RH) and diameter (nm), obtained from each Data Ram-4 COM equipment:

- **Appendix 4**, correspond to Tower # 1, December 9, 2013.
- **Appendix 5**, correspond to Tower # 2, December 9, 2013.

If you need any further information contact us at your earliest convenience at (787)-835-4242 or (787) 430-6141.

Statement of Authenticity,
Altol Environmental Services, Inc.

Certify that the results are complete and accurate

Cordially,

Carlos E. Ocasio Feliciano
Environmental Higiene

Parque Industrial Sabanetas ▪ Edificio M-1380 ▪ Ponce, PR 00715
Tel. (787) 835-4242 ▪ Fax (787) 835-2004

APPENDIX 1
FUGITIVE DUSTS SAMPLING AND TEST RESULTS

TABLE 1. FUGITIVE DUSTS SAMPLING AND ENVIRONMENTAL CONDITIONS

Air Monitoring Date	Air Monitoring Tower	Latitude and Longitude	Equipment Data Ram-4 COM						Equipment Kestrell Model 4000		Field Observation				Sampling Personnel
			Equipment Model/ID#	Start Time	Finish Time	Avg Mass ($\mu g/m^3$)	Regulatory Limits ($\mu g/m3$)	Avg Diameter (nm)	Wind Velocity Start Time (mph)	Wind Velocity Finish Time (mph)	Weather Condition Start Time	Weather Condition Finish Time	Wind Direction Start Time	Wind Direction Finish Time	
12/9/2013 12/9/2013	1		DR4/D787	7:41	15:38	1.49	150	0.37	4.3	5.6	Sunny	Sunny	North West	North West	JS
12/9/2013 12/9/2013	2		DR4/D788	7:52	15:44	3.22	150	0.58	5.9	4.6	Sunny	Sunny	North West	North West	JS

Standard Limit = 150 $\mu g/m^3$

Leyend

N/A -	Not Aplicable
RV -	Robert Velazquez
JRR-	Jaime Rivera Rivera
JR-	Juan Rivera
JC-	Jose Cruz
NH	Nehemias Hernandez
JS-	José Santos

Towers Location:

Tower #1: PR-503
Tower #2: Disposal Area 3A
Tower #3: Access Road #1
Tower #4: Laboratory Area

ALTOL
Environmental Services, Inc.

Statement of Authenticity,
Certify that the results are complete and accurate

Cordially,

Carlos E. Ocasio Feliciano
Environmental Higiene

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APPENDIX 2
USEPA REGULATION PARAMETER

National Ambient Air Quality Standards (NAAQS)

The Clean Air Act, which was last amended in 1990, requires EPA to set National Ambient Air Quality Standards (40 CFR part 50) for pollutants considered harmful to public health and the environment. The Clean Air Act established two types of national air quality standards. *Primary standards* set limits to protect public health, including the health of "sensitive" populations such as asthmatics, children, and the elderly. *Secondary standards* set limits to protect public welfare, including protection against decreased visibility, damage to animals, crops, vegetation, and buildings.

The EPA Office of Air Quality Planning and Standards (OAQPS) has set National Ambient Air Quality Standards for six principal pollutants, which are called "criteria" pollutants. They are listed below. Units of measure for the standards are parts per million (ppm) by volume, milligrams per cubic meter of air (mg/m^3), and micrograms per cubic meter of air ($\mu g/m^3$).

National Ambient Air Quality Standards

	Primary Standards		Secondary Standards	
Pollutant	Level	Averaging Time	Level	Averaging Time
Carbon Monoxide	9 ppm (10 mg/m^3)	8-hour [1]	None	
	35 ppm (40 mg/m^3)	1-hour [1]		
Lead	0.15 $\mu g/m^3$ [2]	Rolling 3-Month Average	Same as Primary	
	1.5 $\mu g/m^3$	Quarterly Average	Same as Primary	
Nitrogen Dioxide	0.053 ppm (100 $\mu g/m^3$)	Annual (Arithmetic Mean)	Same as Primary	
Particulate Matter (PM_{10})	150 $\mu g/m^3$	24-hour [3]	Same as Primary	
Particulate Matter ($PM_{2.5}$)	15.0 $\mu g/m^3$	Annual [4] (Arithmetic Mean)	Same as Primary	
	35 $\mu g/m^3$	24-hour [5]	Same as Primary	
Ozone	0.075 ppm (2008 std)	8-hour [6]	Same as Primary	
	0.08 ppm (1997 std)	8-hour [7]	Same as Primary	
	0.12 ppm	1-hour [8] (Applies only in limited areas)	Same as Primary	
Sulfur Dioxide	0.03 ppm	Annual (Arithmetic Mean)	0.5 ppm (1300 $\mu g/m^3$)	3-hour [1]
	0.14 ppm	24-hour [1]		

[1] Not to be exceeded more than once per year.
[2] Final rule signed October 15, 2008.
[3] Not to be exceeded more than once per year on average over 3 years.
[4] To attain this standard, the 3-year average of the weighted annual mean PM2.5 concentrations from single or multiple community-oriented monitors must not exceed 15.0 µg/m3.
[5] To attain this standard, the 3-year average of the 98th percentile of 24-hour concentrations at each population-oriented monitor within an area must not exceed 35 µg/m3 (effective December 17, 2006).
[6] To attain this standard, the 3-year average of the fourth-highest daily maximum 8-hour average ozone concentrations measured at each monitor within an area over each year must not exceed 0.075 ppm. (effective May 27, 2008)
[7] (a) To attain this standard, the 3-year average of the fourth-highest daily maximum 8-hour average ozone concentrations measured at each monitor within an area over each year must not exceed 0.08 ppm.

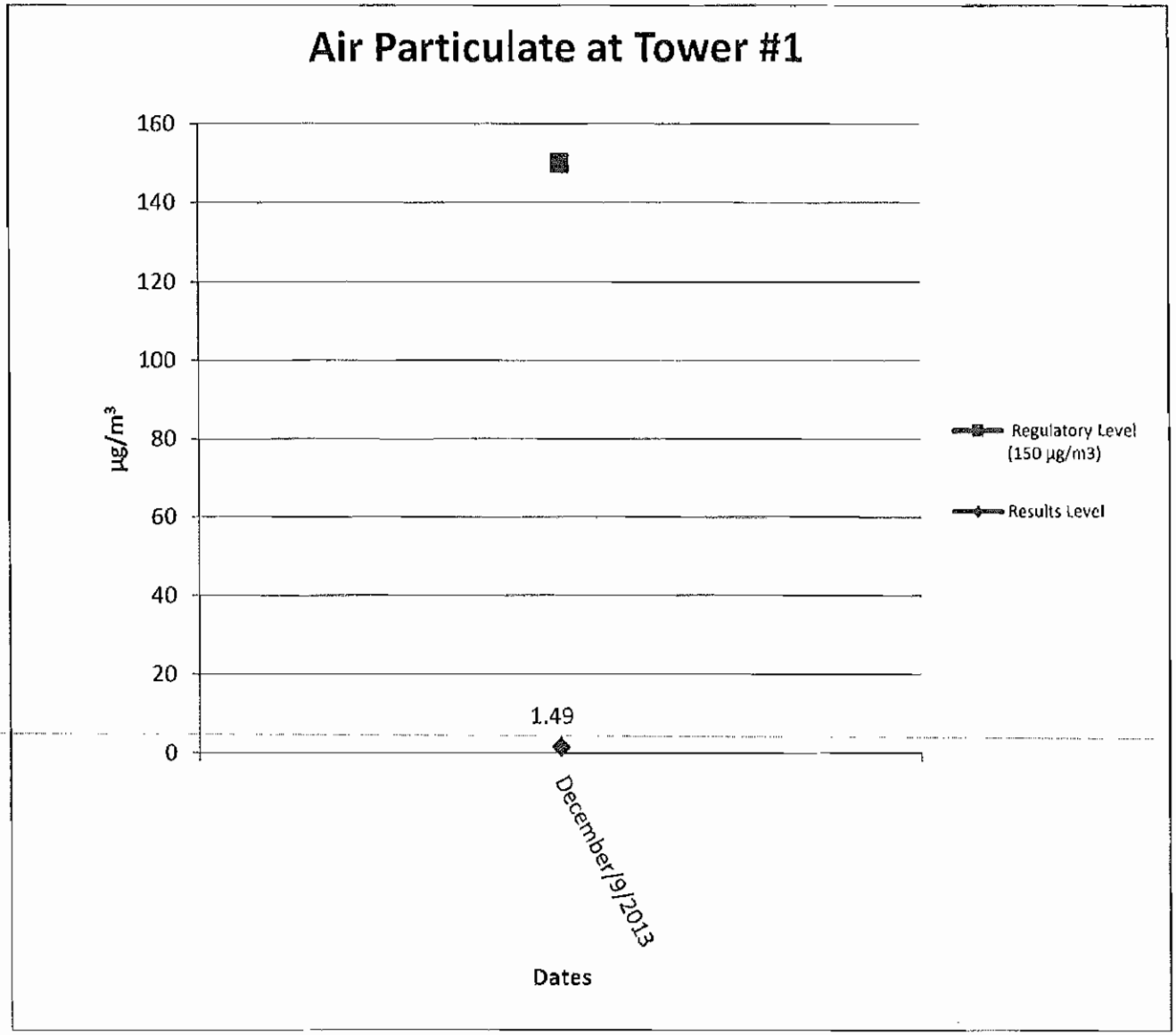
(b) The 1997 standard—and the implementation rules for that standard—will remain in place for implementation purposes as EPA undertakes rulemaking to address the transition from the 1997 ozone standard to the 2008 ozone standard.
[8] (a) The standard is attained when the expected number of days per calendar year with maximum hourly average concentrations above 0.12 ppm is ≤ 1.

(b) As of June 15, 2005 EPA revoked the 1-hour ozone standard in all areas except the 8-hour ozone nonattainment Early Action Compact (EAC) Areas.

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APPENDIX 3
GRAPHICS OF MASS vs DATE

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Air Particulate at Tower #2
Regulatory Level (150 µg/m3)
Results Level
µg/m³
160
140
120
100
80
60
40
20
0
3.22
December/9/2013
Dates

APPENDIX 4

TOWER #1 AIR PARTICULATE MONITORING

CONFIDENTIAL & PRIVILEGE

"Model Number", "DataRAM 4 ", 106
Serial no. ", "D788 "
"Device no. ", 2 AL SUR, PR OLEFINS
"Tag Number ", 54
Start Time ", 07:51:03
Start Date ", 09-Dec-2013
"Log Period ", 00:01:00
Number ", 473
CalFactor ", 1.000000
"Unit ", 0
"Unit Name ", "(MASS)ug/m3"
SIZE_CORRECT", "ENABLED"
"TEMPUNITS ", F
"Max MASS ", 147.273200
Max MASS @ ", 4 ,08:03:03 ,09-Dec-2013
Avg MASS ", 3.217500
"Max Diam ", 4.127007
"Max Diam @ ", 3 ,07:50:03 ,09-Dec-2013
Avg Diam ", 0.583824
"ALARM ", "DISABLED"
"ALARM_LEVEL ", 0.0
AUTO_ZERO ", "DISABLED"
AZ INTERVAL ", 1
"Errors ", 0000
"ecord,"(MASS)ug/m3", Temp, RHumidity, Diameter

1,	3.3,	76.9,	50,	0.30	,07:52:03 ,09-Dec-2013
2,	3.6,	77.1,	54,	0.51	,07:53:03 ,09-Dec-2013
3,	2.1,	77.2,	57,	0.47	,07:54:03 ,09-Dec-2013
4,	2.1,	77.4,	59,	0.47	,07:55:03 ,09-Dec-2013
5,	1.9,	77.7,	60,	0.42	,07:56:03 ,09-Dec-2013
6,	2.0,	77.9,	61,	0.40	,07:57:03 ,09-Dec-2013
7,	1.9,	78.2,	61,	0.35	,07:58:03 ,09-Dec-2013
8,	1.8,	78.4,	61,	0.34	,07:59:03 ,09-Dec-2013
9,	1.8,	78.7,	62,	0.34	,08:00:03 ,09-Dec-2013
10,	1.6,	78.9,	62,	0.34	,08:01:03 ,09-Dec-2013
11,	1.6,	79.1,	62,	0.33	,08:02:03 ,09-Dec-2013
12,	1.7,	79.4,	62,	0.34	,08:03:03 ,09-Dec-2013
13,	1.6,	79.7,	61,	0.34	,08:04:03 ,09-Dec-2013
14,	1.7,	79.9,	61,	0.34	,08:05:03 ,09-Dec-2013
15,	1.9,	80.1,	61,	0.35	,08:06:03 ,09-Dec-2013
16,	2.0,	80.3,	61,	0.35	,08:07:03 ,09-Dec-2013
17,	1.9,	80.6,	61,	0.38	,08:08:03 ,09-Dec-2013
18,	2.1,	80.8,	61,	0.36	,08:09:03 ,09-Dec-2013
19,	2.0,	81.0,	61,	0.34	,08:10:03 ,09-Dec-2013
20,	1.6,	81.3,	61,	0.36	,08:11:03 ,09-Dec-2013
21,	1.7,	81.5,	61,	0.42	,08:12:03 ,09-Dec-2013
22,	1.7,	81.8,	60,	0.42	,08:13:03 ,09-Dec-2013
23,	1.8,	82.1,	60,	0.42	,08:14:03 ,09-Dec-2013
24,	1.8,	82.3,	60,	0.41	,08:15:03 ,09-Dec-2013
25,	1.7,	82.5,	59,	0.40	,08:16:03 ,09-Dec-2013
26,	1.7,	82.8,	59,	0.40	,08:17:03 ,09-Dec-2013
27,	2.0,	83.0,	59,	0.40	,08:18:03 ,09-Dec-2013
28,	2.0,	83.3,	59,	0.37	,08:19:03 ,09-Dec-2013
29,	1.8,	83.5,	58,	0.37	,08:20:03 ,09-Dec-2013
30,	1.8,	83.7,	58,	0.36	,08:21:03 ,09-Dec-2013
31,	1.7,	84.0,	57,	0.38	,08:22:03 ,09-Dec-2013
32,	2.0,	84.2,	57,	0.38	,08:23:03 ,09-Dec-2013
33,	2.1,	84.4,	57,	0.37	,08:24:03 ,09-Dec-2013
34,	2.0,	84.6,	57,	0.38	,08:25:03 ,09-Dec-2013
35,	2.1,	84.9,	57,	0.47	,08:26:03 ,09-Dec-2013
36,	1.9,	85.1,	56,	0.48	,08:27:03 ,09-Dec-2013
37,	2.1,	85.3,	56,	0.44	,08:28:03 ,09-Dec-2013
38,	2.1,	85.5,	56,	0.50	,08:29:03 ,09-Dec-2013
39,	2.3,	85.9,	55,	0.43	,08:30:03 ,09-Dec-2013

40,	2.5,	86.1,	55,	0.60	,08:31:03	,09-Dec-2013
41,	2.9,	86.3,	55,	0.63	,08:32:03	,09-Dec-2013
42,	2.7,	86.5,	54,	0.67	,08:33:03	,09-Dec-2013
43,	2.2,	86.7,	54,	0.60	,08:34:03	,09-Dec-2013
44,	2.0,	86.9,	53,	0.54	,08:35:03	,09-Dec-2013
45,	1.9,	87.1,	53,	0.52	,08:36:03	,09-Dec-2013
46,	1.9,	87.3,	53,	0.54	,08:37:03	,09-Dec-2013
47,	2.1,	87.5,	52,	0.49	,08:38:03	,09-Dec-2013
48,	1.6,	87.7,	52,	0.47	,08:39:03	,09-Dec-2013
49,	1.9,	87.9,	52,	0.48	,08:40:03	,09-Dec-2013
50,	1.4,	88.1,	52,	0.41	,08:41:03	,09-Dec-2013
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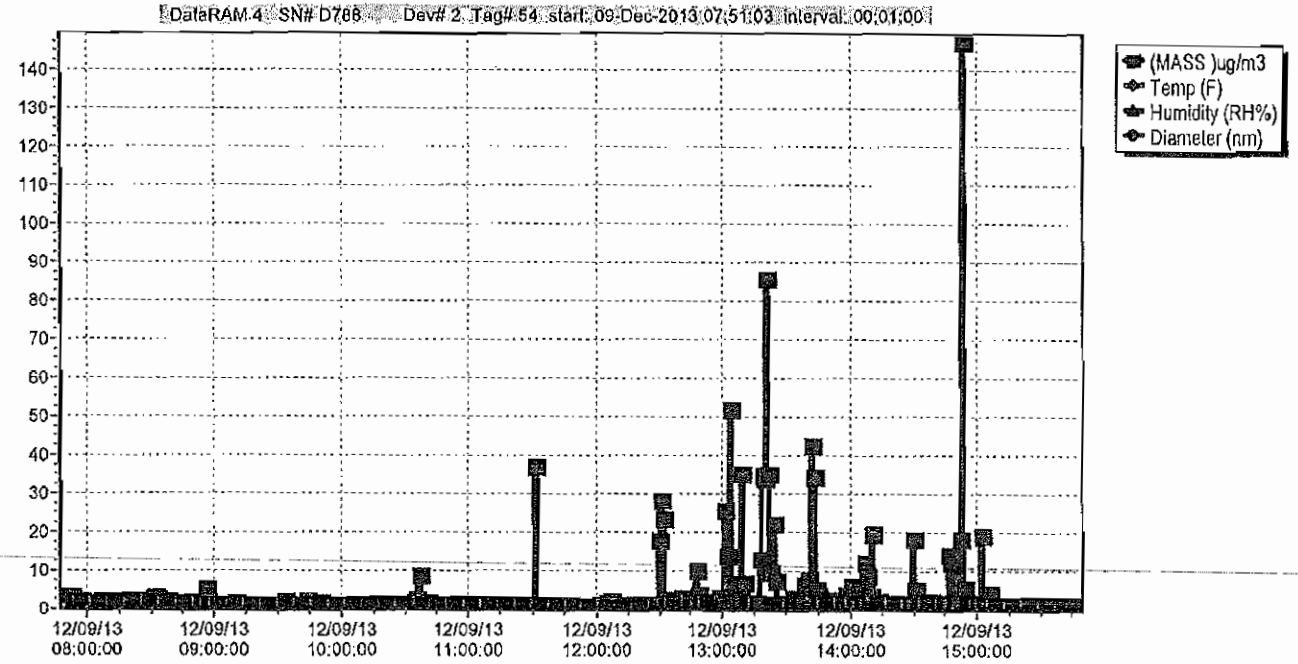
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276,	1.3,	98.5,	34,	0.37	,12:27:03	,09-Dec-2013
277,	1.4,	98.6,	34,	0.37	,12:28:03	,09-Dec-2013
278,	1.1,	98.7,	34,	0.36	,12:29:03	,09-Dec-2013
279,	18.0,	98.8,	34,	2.09	,12:30:03	,09-Dec-2013
280,	28.4,	98.9,	35,	3.36	,12:31:03	,09-Dec-2013
281,	23.6,	99.0,	35,	2.45	,12:32:03	,09-Dec-2013
282,	2.8,	99.0,	36,	0.83	,12:33:03	,09-Dec-2013
283,	1.3,	99.1,	36,	0.44	,12:34:03	,09-Dec-2013
284,	1.7,	99.3,	36,	0.45	,12:35:03	,09-Dec-2013
285,	1.4,	99.4,	37,	0.42	,12:36:03	,09-Dec-2013
286,	1.7,	99.5,	37,	0.43	,12:37:03	,09-Dec-2013
287,	1.9,	99.6,	37,	0.39	,12:38:03	,09-Dec-2013
288,	2.0,	99.6,	37,	0.48	,12:39:03	,09-Dec-2013
289,	1.9,	99.7,	37,	0.45	,12:40:03	,09-Dec-2013
290,	3.1,	99.7,	38,	0.57	,12:41:03	,09-Dec-2013
291,	1.4,	99.8,	38,	0.44	,12:42:03	,09-Dec-2013
292,	2.5,	99.9,	38,	0.62	,12:43:03	,09-Dec-2013
293,	2.2,	99.9,	38,	0.65	,12:44:03	,09-Dec-2013
294,	2.1,	100.0,	38,	0.60	,12:45:03	,09-Dec-2013
295,	1.7,	100.2,	38,	0.42	,12:46:03	,09-Dec-2013

296,	1.6,	100.3,	38,	0.34	,12:47:03	,09-Dec-2013
297,	10.0,	100.3,	38,	1.12	,12:48:03	,09-Dec-2013
298,	3.7,	100.4,	38,	1.01	,12:49:03	,09-Dec-2013
299,	1.4,	100.5,	37,	0.54	,12:50:03	,09-Dec-2013
300,	2.0,	100.6,	38,	0.54	,12:51:03	,09-Dec-2013
301,	2.1,	100.5,	38,	0.54	,12:52:03	,09-Dec-2013
302,	1.9,	100.6,	38,	0.47	,12:53:03	,09-Dec-2013
303,	1.6,	100.5,	37,	0.49	,12:54:03	,09-Dec-2013
304,	1.5,	100.5,	38,	0.42	,12:55:03	,09-Dec-2013
305,	1.4,	100.5,	37,	0.44	,12:56:03	,09-Dec-2013
306,	1.7,	100.5,	37,	0.54	,12:57:03	,09-Dec-2013
307,	1.6,	100.5,	38,	0.51	,12:58:03	,09-Dec-2013
308,	2.9,	100.6,	37,	0.74	,12:59:03	,09-Dec-2013
309,	1.4,	100.6,	37,	0.45	,13:00:03	,09-Dec-2013
310,	25.7,	100.6,	37,	1.82	,13:01:03	,09-Dec-2013
311,	13.7,	100.6,	37,	3.17	,13:02:03	,09-Dec-2013
312,	7.0,	100.5,	37,	1.92	,13:03:03	,09-Dec-2013
313,	51.5,	100.5,	37,	2.94	,13:04:03	,09-Dec-2013
314,	1.7,	100.5,	38,	0.54	,13:05:03	,09-Dec-2013
315,	6.2,	100.5,	38,	1.27	,13:06:03	,09-Dec-2013
316,	1.8,	100.5,	38,	0.53	,13:07:03	,09-Dec-2013
317,	2.5,	100.5,	38,	0.46	,13:08:03	,09-Dec-2013
318,	35.1,	100.5,	38,	2.66	,13:09:03	,09-Dec-2013
319,	7.0,	100.5,	37,	1.87	,13:10:03	,09-Dec-2013
320,	1.5,	100.5,	37,	0.54	,13:11:03	,09-Dec-2013
321,	1.7,	100.4,	37,	0.55	,13:12:03	,09-Dec-2013
322,	1.4,	100.4,	37,	0.39	,13:13:03	,09-Dec-2013
323,	1.8,	100.4,	38,	0.41	,13:14:03	,09-Dec-2013
324,	1.8,	100.4,	38,	0.44	,13:15:03	,09-Dec-2013
325,	1.6,	100.4,	37,	0.40	,13:16:03	,09-Dec-2013
326,	1.5,	100.4,	37,	0.42	,13:17:03	,09-Dec-2013
327,	13.0,	100.5,	37,	0.89	,13:18:03	,09-Dec-2013
328,	34.6,	100.5,	37,	3.70	,13:19:03	,09-Dec-2013
329,	33.7,	100.5,	37,	3.18	,13:20:03	,09-Dec-2013
330,	85.6,	100.5,	37,	4.12	,13:21:03	,09-Dec-2013
331,	35.4,	100.6,	37,	3.60	,13:22:03	,09-Dec-2013
332,	9.4,	100.5,	37,	2.19	,13:23:03	,09-Dec-2013
333,	22.1,	100.5,	37,	2.76	,13:24:03	,09-Dec-2013
334,	7.3,	100.5,	37,	1.65	,13:25:03	,09-Dec-2013
335,	1.4,	100.5,	37,	0.59	,13:26:03	,09-Dec-2013
336,	1.0,	100.5,	37,	0.50	,13:27:03	,09-Dec-2013
337,	1.6,	100.5,	37,	0.47	,13:28:03	,09-Dec-2013
338,	1.2,	100.5,	37,	0.41	,13:29:03	,09-Dec-2013
339,	1.3,	100.5,	37,	0.44	,13:30:03	,09-Dec-2013
340,	1.3,	100.4,	37,	0.44	,13:31:03	,09-Dec-2013
341,	1.6,	100.3,	37,	0.44	,13:32:03	,09-Dec-2013
342,	3.2,	100.2,	38,	0.51	,13:33:03	,09-Dec-2013
343,	2.0,	100.1,	38,	0.46	,13:34:03	,09-Dec-2013
344,	2.2,	100.0,	38,	0.63	,13:35:03	,09-Dec-2013
345,	2.8,	99.9,	38,	0.75	,13:36:03	,09-Dec-2013
346,	2.0,	99.8,	38,	0.70	,13:37:03	,09-Dec-2013
347,	1.6,	99.8,	39,	0.51	,13:38:03	,09-Dec-2013
348,	6.5,	99.8,	39,	1.45	,13:39:03	,09-Dec-2013
349,	7.7,	99.8,	39,	1.70	,13:40:03	,09-Dec-2013
350,	3.9,	99.9,	39,	0.91	,13:41:03	,09-Dec-2013
351,	42.6,	99.8,	39,	3.46	,13:42:03	,09-Dec-2013
352,	34.2,	99.9,	39,	3.95	,13:43:03	,09-Dec-2013
353,	5.0,	99.9,	39,	1.32	,13:44:03	,09-Dec-2013
354,	3.9,	99.8,	39,	0.96	,13:45:03	,09-Dec-2013
355,	2.3,	99.7,	39,	0.75	,13:46:03	,09-Dec-2013
356,	1.6,	99.7,	39,	0.45	,13:47:03	,09-Dec-2013
357,	1.9,	99.6,	39,	0.43	,13:48:03	,09-Dec-2013
358,	1.7,	99.5,	39,	0.39	,13:49:03	,09-Dec-2013
359,	2.4,	99.4,	39,	0.42	,13:50:03	,09-Dec-2013

360,	1.7,	99.2,	39,	0.48	,13:51:03	,09-Dec-2013
361,	1.8,	99.0,	38,	0.50	,13:52:03	,09-Dec-2013
362,	1.3,	98.9,	38,	0.47	,13:53:03	,09-Dec-2013
363,	1.8,	98.8,	39,	0.46	,13:54:03	,09-Dec-2013
364,	1.7,	98.6,	38,	0.47	,13:55:03	,09-Dec-2013
365,	1.7,	98.4,	39,	0.50	,13:56:03	,09-Dec-2013
366,	1.6,	98.2,	39,	0.46	,13:57:03	,09-Dec-2013
367,	3.8,	98.0,	39,	0.96	,13:58:03	,09-Dec-2013
368,	2.3,	98.0,	39,	0.52	,13:59:03	,09-Dec-2013
369,	2.3,	97.9,	39,	0.67	,14:00:03	,09-Dec-2013
370,	5.9,	98.0,	40,	1.01	,14:01:03	,09-Dec-2013
371,	3.6,	97.9,	39,	0.96	,14:02:03	,09-Dec-2013
372,	1.0,	97.9,	39,	0.44	,14:03:03	,09-Dec-2013
373,	5.2,	98.0,	39,	1.12	,14:04:03	,09-Dec-2013
374,	1.9,	98.0,	39,	0.59	,14:05:03	,09-Dec-2013
375,	1.5,	98.0,	39,	0.48	,14:06:03	,09-Dec-2013
376,	12.2,	98.0,	39,	2.68	,14:07:03	,09-Dec-2013
377,	8.9,	98.1,	40,	1.92	,14:08:03	,09-Dec-2013
378,	2.7,	98.1,	40,	0.64	,14:09:03	,09-Dec-2013
379,	3.4,	98.2,	40,	0.79	,14:10:03	,09-Dec-2013
380,	19.5,	98.2,	40,	2.72	,14:11:03	,09-Dec-2013
381,	1.5,	98.4,	40,	0.66	,14:12:03	,09-Dec-2013
382,	2.2,	98.5,	40,	0.66	,14:13:03	,09-Dec-2013
383,	1.5,	98.6,	40,	0.49	,14:14:03	,09-Dec-2013
384,	1.8,	98.6,	40,	0.48	,14:15:03	,09-Dec-2013
385,	1.6,	98.7,	40,	0.44	,14:16:03	,09-Dec-2013
386,	1.4,	98.7,	40,	0.44	,14:17:03	,09-Dec-2013
387,	1.9,	98.8,	40,	0.50	,14:18:03	,09-Dec-2013
388,	1.7,	98.9,	40,	0.43	,14:19:03	,09-Dec-2013
389,	1.1,	99.0,	40,	0.38	,14:20:03	,09-Dec-2013
390,	1.6,	99.0,	39,	0.39	,14:21:03	,09-Dec-2013
391,	1.9,	99.1,	39,	0.42	,14:22:03	,09-Dec-2013
392,	1.6,	99.1,	39,	0.40	,14:23:03	,09-Dec-2013
393,	1.5,	99.1,	39,	0.40	,14:24:03	,09-Dec-2013
394,	1.5,	99.0,	39,	0.42	,14:25:03	,09-Dec-2013
395,	1.8,	99.0,	39,	0.46	,14:26:03	,09-Dec-2013
396,	1.6,	98.9,	39,	0.49	,14:27:03	,09-Dec-2013
397,	1.5,	98.8,	39,	0.46	,14:28:03	,09-Dec-2013
398,	1.8,	98.7,	39,	0.51	,14:29:03	,09-Dec-2013
399,	18.3,	98.6,	39,	1.70	,14:30:03	,09-Dec-2013
400,	5.0,	98.4,	39,	1.33	,14:31:03	,09-Dec-2013
401,	2.1,	98.2,	39,	0.64	,14:32:03	,09-Dec-2013
402,	1.4,	98.0,	40,	0.47	,14:33:03	,09-Dec-2013
403,	1.3,	97.8,	39,	0.45	,14:34:03	,09-Dec-2013
404,	1.9,	97.7,	40,	0.49	,14:35:03	,09-Dec-2013
405,	1.5,	97.5,	40,	0.43	,14:36:03	,09-Dec-2013
406,	1.6,	97.3,	40,	0.43	,14:37:03	,09-Dec-2013
407,	2.0,	97.1,	40,	0.47	,14:38:03	,09-Dec-2013
408,	1.7,	97.0,	40,	0.45	,14:39:03	,09-Dec-2013
409,	1.8,	96.8,	40,	0.45	,14:40:03	,09-Dec-2013
410,	1.8,	96.7,	41,	0.46	,14:41:03	,09-Dec-2013
411,	1.6,	96.5,	41,	0.49	,14:42:03	,09-Dec-2013
412,	1.9,	96.3,	41,	0.51	,14:43:03	,09-Dec-2013
413,	1.0,	96.1,	41,	0.39	,14:44:03	,09-Dec-2013
414,	1.7,	96.0,	42,	0.43	,14:45:03	,09-Dec-2013
415,	1.4,	95.9,	42,	0.40	,14:46:03	,09-Dec-2013
416,	14.5,	95.7,	42,	1.71	,14:47:03	,09-Dec-2013
417,	12.2,	95.5,	42,	2.78	,14:48:03	,09-Dec-2013
418,	2.1,	95.5,	43,	0.74	,14:49:03	,09-Dec-2013
419,	1.7,	95.4,	43,	0.52	,14:50:03	,09-Dec-2013
420,	1.8,	95.4,	43,	0.50	,14:51:03	,09-Dec-2013
421,	18.4,	95.4,	43,	0.77	,14:52:03	,09-Dec-2013
422,	147.3,	95.4,	43,	3.82	,14:53:03	,09-Dec-2013
423,	5.6,	95.4,	43,	1.67	,14:54:03	,09-Dec-2013

424,	1.6,	95.4,	43,	0.50	,14:55:03	,09-Dec-2013
425,	1.5,	95.5,	42,	0.46	,14:56:03	,09-Dec-2013
426,	1.8,	95.6,	43,	0.48	,14:57:03	,09-Dec-2013
427,	1.5,	95.7,	43,	0.36	,14:58:03	,09-Dec-2013
428,	1.4,	95.8,	43,	0.37	,14:59:03	,09-Dec-2013
429,	1.2,	95.9,	43,	0.37	,15:00:03	,09-Dec-2013
430,	1.9,	96.1,	42,	0.45	,15:01:03	,09-Dec-2013
431,	19.0,	96.2,	42,	1.85	,15:02:03	,09-Dec-2013
432,	1.9,	96.3,	42,	0.64	,15:03:03	,09-Dec-2013
433,	1.5,	96.5,	41,	0.53	,15:04:03	,09-Dec-2013
434,	2.0,	96.6,	41,	0.64	,15:05:03	,09-Dec-2013
435,	4.3,	96.8,	42,	0.97	,15:06:03	,09-Dec-2013
436,	1.5,	96.9,	41,	0.59	,15:07:03	,09-Dec-2013
437,	1.2,	97.1,	41,	0.54	,15:08:03	,09-Dec-2013
438,	1.2,	97.2,	41,	0.48	,15:09:03	,09-Dec-2013
439,	1.2,	97.4,	41,	0.46	,15:10:03	,09-Dec-2013
440,	1.0,	97.6,	40,	0.42	,15:11:03	,09-Dec-2013
441,	1.2,	97.7,	40,	0.44	,15:12:03	,09-Dec-2013
442,	1.1,	97.8,	39,	0.45	,15:13:03	,09-Dec-2013
443,	1.0,	97.9,	39,	0.39	,15:14:03	,09-Dec-2013
444,	0.8,	97.9,	39,	0.36	,15:15:03	,09-Dec-2013
445,	0.7,	97.9,	38,	0.35	,15:16:03	,09-Dec-2013
446,	1.2,	97.9,	38,	0.37	,15:17:03	,09-Dec-2013
447,	1.3,	97.7,	37,	0.37	,15:18:03	,09-Dec-2013
448,	1.1,	97.5,	37,	0.36	,15:19:03	,09-Dec-2013
449,	1.1,	97.3,	37,	0.36	,15:20:03	,09-Dec-2013
450,	1.2,	97.0,	37,	0.36	,15:21:03	,09-Dec-2013
451,	1.0,	96.8,	37,	0.36	,15:22:03	,09-Dec-2013
452,	1.2,	96.5,	37,	0.36	,15:23:03	,09-Dec-2013
453,	1.0,	96.3,	37,	0.35	,15:24:03	,09-Dec-2013
454,	1.4,	96.1,	37,	0.36	,15:25:03	,09-Dec-2013
455,	1.3,	96.0,	38,	0.38	,15:26:03	,09-Dec-2013
456,	1.0,	95.9,	38,	0.38	,15:27:03	,09-Dec-2013
457,	1.0,	95.9,	38,	0.38	,15:28:03	,09-Dec-2013
458,	1.0,	95.8,	38,	0.38	,15:29:03	,09-Dec-2013
459,	0.5,	95.8,	37,	0.36	,15:30:03	,09-Dec-2013
460,	0.7,	95.7,	37,	0.36	,15:31:03	,09-Dec-2013
461,	0.6,	95.7,	37,	0.34	,15:32:03	,09-Dec-2013
462,	0.7,	95.6,	37,	0.35	,15:33:03	,09-Dec-2013
463,	1.1,	95.5,	37,	0.36	,15:34:03	,09-Dec-2013
464,	0.6,	95.5,	38,	0.35	,15:35:03	,09-Dec-2013
465,	1.0,	95.4,	38,	0.37	,15:36:03	,09-Dec-2013
466,	0.9,	95.4,	38,	0.39	,15:37:03	,09-Dec-2013
467,	0.8,	95.4,	38,	0.39	,15:38:03	,09-Dec-2013
468,	0.6,	95.4,	38,	0.37	,15:39:03	,09-Dec-2013
469,	0.8,	95.4,	38,	0.38	,15:40:03	,09-Dec-2013
470,	1.0,	95.4,	38,	0.37	,15:41:03	,09-Dec-2013
471,	1.1,	95.4,	38,	0.36	,15:42:03	,09-Dec-2013
472,	1.0,	95.3,	38,	0.36	,15:43:03	,09-Dec-2013
473,	1.1,	95.3,	38,	0.36	,15:44:03	,09-Dec-2013



CONFIDENTIAL

000578 RX 6

DataRAM 4 SN# D788 Dev# 2 Tag# 54 start 09-Dec-2013 07:51:03 Interval: 00:01:00
(MASS)ug/m3
Temp (F)
Humidity (RH%)
Diameter (nm)
100
95
90
85
80
75
70
65
60
55
50
45
40
35
30
25
20
15
10
5
0
12/09/13 08:00:00
12/09/13 09:00:00
12/09/13 10:00:00
12/09/13 11:00:00
12/09/13 12:00:00
12/09/13 13:00:00
12/09/13 14:00:00
12/09/13 15:00:00

DataRAM 4 SN# D788 Dev#:2 Tag#:54 start: 09 Dec 2013 07:51:03 interval: 00:01:00
(MASS)ug/m3
Temp (F)
Humidity (RH%)
Diameter (nm)
0
5
10
15
20
25
30
35
40
45
50
55
60
12/09/13 08:00:00
12/09/13 09:00:00
12/09/13 10:00:00
12/09/13 11:00:00
12/09/13 12:00:00
12/09/13 13:00:00
12/09/13 14:00:00
12/09/13 15:00:00

DataRAM 4 SN# 0788 Dev# 2 Tag# 54 Start: 09-Dec-2013 07:51:03 Interval: 00:01:00
(MASS)ug/m3
Temp (F)
Humidity (RH%)
Diameter (nm)
4,000
3,800
3,600
3,400
3,200
3,000
2,800
2,600
2,400
2,200
2,000
1,800
1,600
1,400
1,200
1,000
800
600
400
200
0
12/09/13 08:00:00
12/09/13 09:00:00
12/09/13 10:00:00
12/09/13 11:00:00
12/09/13 12:00:00
12/09/13 13:00:00
12/09/13 14:00:00
12/09/13 15:00:00

APPENDIX 5
TOWER #2 AIR PARTICULATE MONITORING

"Model Number", "DataRAM 4 ", 106
Serial no. ", "D787 "
"Device no. ", 1 Norte PR OLEFINS
"Tag Number ", 62
Start Time ", 07:40:34
Start Date ", 09-Dec-2013
"Log Pericd ", 00:01:00
Number ", 478
CalFactor ", 1.000000
"Unit ", 0
"Unit Name ", "(MASS)ug/m3"
SIZE_CORRECT", "ENABLED"
"TEMPUNITS ", F
"Max MASS ", 5.679250
Max MASS @ ", 1 ,04:19:34 ,09-Dec-2013
Avg MASS ", 1.491829
"Max Diam ", 0.549311
"Max Diam @ ", 3 ,07:39:34 ,09-Dec-2013
Avg Diam ", 0.367543
"ALARM ", "DISABLED"
"ALARM_LEVEL ", 0.0
AUTO_ZERO ", "DISABLED"
AZ INTERVAL ", 1
"Errors ", 0000

ecord,	"(MASS)ug/m3",	Temp,	RHumidity,	Diameter	
1,	4.6,	77.1,	49,	0.45	,07:41:34 ,09-Dec-2013
2,	2.0,	77.3,	53,	0.41	,07:42:34 ,09-Dec-2013
3,	2.4,	77.5,	56,	0.45	,07:43:34 ,09-Dec-2013
4,	2.0,	77.8,	58,	0.41	,07:44:34 ,09-Dec-2013
5,	2.1,	77.9,	59,	0.42	,07:45:34 ,09-Dec-2013
6,	2.0,	78.1,	60,	0.46	,07:46:34 ,09-Dec-2013
7,	1.9,	78.3,	60,	0.44	,07:47:34 ,09-Dec-2013
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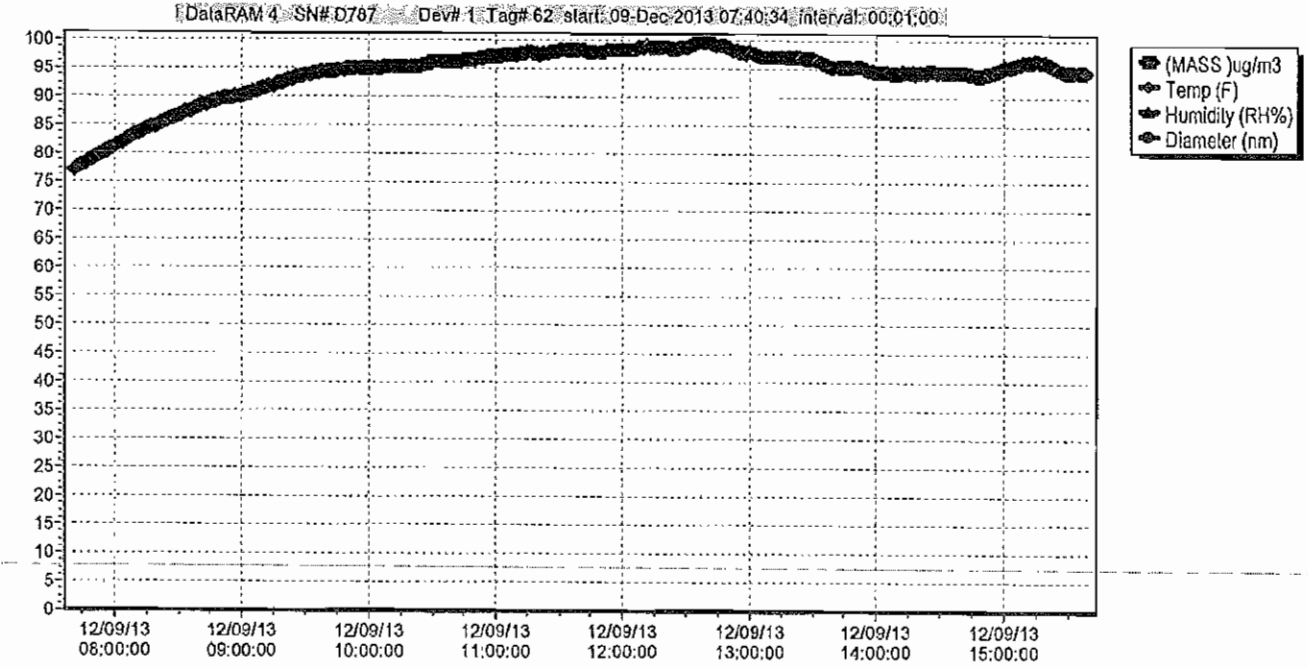
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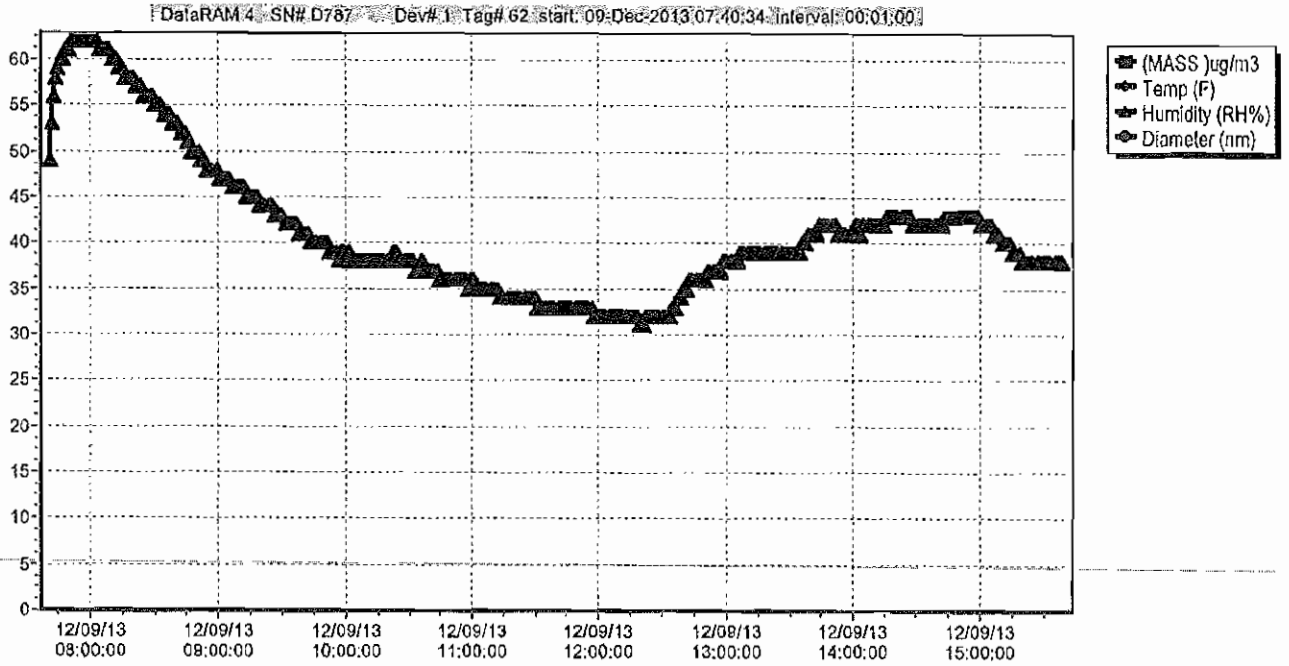
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465,    1.1,   94.9,   38,   0.36  ,15:25:34  ,09-Dec-2013
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471,    1.1,   94.2,   38,   0.34  ,15:31:34  ,09-Dec-2013
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475,    1.3,   94.2,   38,   0.35  ,15:35:34  ,09-Dec-2013
476,    1.1,   94.2,   38,   0.35  ,15:36:34  ,09-Dec-2013
477,    1.1,   94.2,   38,   0.36  ,15:37:34  ,09-Dec-2013
478,    1.4,   94.2,   38,   0.36  ,15:38:34  ,09-Dec-2013
```

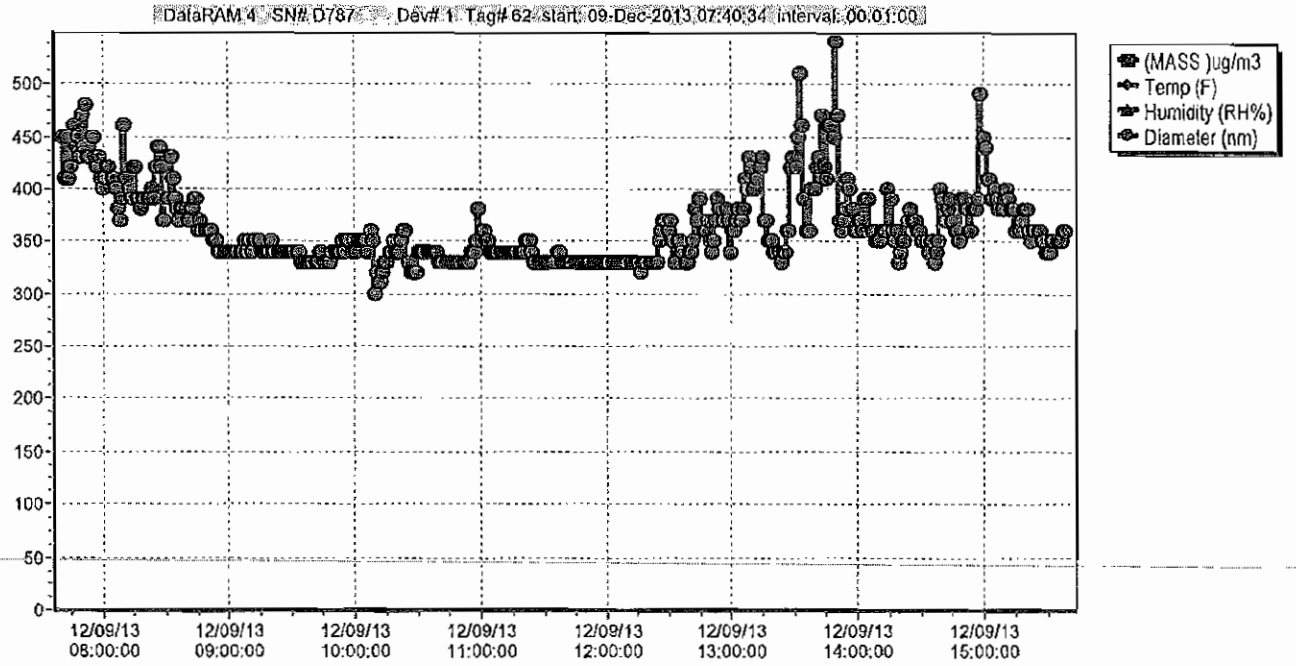
(MASS)ug/m3
Temp (F)
Humidity (RH%)
Diameter (nm)
DataRAM 4 SN# D787 Dev#: 1 Tag# 62 start 09-Dec-2013 07:40:34 interval 00:01:00
0
1
2
3
4
5
12/09/13 08:00:00
12/09/13 09:00:00
12/09/13 10:00:00
12/09/13 11:00:00
12/09/13 12:00:00
12/09/13 13:00:00
12/09/13 14:00:00
12/09/13 15:00:00



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ALTOL
Environmental Services, Inc.

P.O Box 359 Mercedita, PR 00715-0359

December 12, 2013

Mr. Benjamin Cintrón
Project Manager
Homeca Recycling

RE: AIR PARTICULATE MONITORING REPORT AT PUERTO RICO OLEFINES, PEÑUELAS, PR.

Dear Mr. Cintrón:

Altol Environmental Services, Inc., submits for your review the results obtained during the air particulates monitoring. These were performed following Altol operational procedures.

Altol's technician installed and removed the Data Ram-4 COM equipment from the Towers located at Puerto Rico Olefines in Peñuelas, PR. The equipment collected data every minute for approximately a twenty four (24) hour period. Also, during the installation and removal of the equipment the wind direction, wind velocity, weather and other conditions were documented as supplementary information. The wind velocity was measured using the Kestrell 4000 equipment.

Appendix 1 presents **Table 1** which summarizes the results of information collected at the towers. The data collected during this period indicated levels of particulate material (PM_{10}) that do not exceed the regulated limits of the United States Environmental Protection Agency (USEPA) of 150 $\mu g/m^3$ (40 CFR part 50) (**Appendix 2**). The information collected from each tower is presented in graphics in terms of mass and dates (**Appendix 3**).

The following Appendices present the tables and graphics results for mass ($\mu g/m^3$), temperature (^oF), relative humidity (RH) and diameter (nm), obtained from each Data Ram-4 COM equipment:

- **Appendix 4**, correspond to Tower # 1, December 6– December 7, 2013.
- **Appendix 5**, correspond to Tower # 2, December 6– December 7, 2013.

If you need any further information contact us at your earliest convenience at (787)-835-4242 or (787) 430-6141.

Statement of Authenticity,
Altol Environmental Services, Inc.

Certify that the results are complete and accurate

Cordially,

Carlos E. Ocasio Feliciano
Environmental Higiene

APPENDIX 1
FUGITIVE DUSTS SAMPLING AND TEST RESULTS

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TABLE 1. FUGITIVE DUSTS SAMPLING AND ENVIRONMENTAL CONDITIONS

Air Monitoring Date	Air Monitoring Tower	Latitude and Longitude	Equipment Data Ram-4 COM						Equipment Kestrell Model 4000		Field Observation				Sampling Personnel
			Equipment Model/ID#	Start Time	Finish Time	Avg Mass ($\mu g/m^3$)	Regulatory Limits ($\mu g/m3$)	Avg Diameter (nm)	Wind Velocity Start Time (mph)	Wind Velocity Finish Time (mph)	Weather Condition Start Time	Weather Condition Finish Time	Wind Direction Start Time	Wind Direction Finish Time	
12/6/2013 12/7/2013	1		DR4/D788	8:06	10:59	0.90	150	0.40	7.9	5.9	Sunny	Sunny	South West	South West	JS
12/6/2013 12/7/2013	2		DR4/D787	8:19	12:39	1.43	150	0.31	5.6	4.8	Sunny	Sunny	South West	South West	JS

Standard Limit = 150 $\mu g/m^3$

Leyend

N/A -	Not Aplicable
RV -	Robert Velazquez
JRR-	Jaime Rivera Rivera
JR-	Juan Rivera
JC-	Jose Cruz
NH	Nehemias Hernandez
JS-	José Santos

Towers Location:

Tower #1: PR-503
Tower #2: Disposal Area 3A
Tower #3: Access Road #1
Tower #4: Laboratory Area

ALTOL
Environmental Services, Inc.

Statement of Authenticity,
Certify that the results are complete and accurate

Cordially,

Carlos E. Ocasio Feliciano
Environmental Higiene

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APPENDIX 2
USEPA REGULATION PARAMETER

National Ambient Air Quality Standards (NAAQS)

The Clean Air Act, which was last amended in 1990, requires EPA to set National Ambient Air Quality Standards (40 CFR part 50) for pollutants considered harmful to public health and the environment. The Clean Air Act established two types of national air quality standards. *Primary standards* set limits to protect public health, including the health of "sensitive" populations such as asthmatics, children, and the elderly. *Secondary standards* set limits to protect public welfare, including protection against decreased visibility, damage to animals, crops, vegetation, and buildings.

The EPA Office of Air Quality Planning and Standards (OAQPS) has set National Ambient Air Quality Standards for six principal pollutants, which are called "criteria" pollutants. They are listed below. Units of measure for the standards are parts per million (ppm) by volume, milligrams per cubic meter of air (mg/m^3), and micrograms per cubic meter of air (µg/m^3).

National Ambient Air Quality Standards

	Primary Standards		Secondary Standards	
Pollutant	Level	Averaging Time	Level	Averaging Time
Carbon Monoxide	9 ppm (10 mg/m^3)	8-hour [1]	None	
	35 ppm (40 mg/m^3)	1-hour [1]		
Lead	0.15 µg/m^3 [2]	Rolling 3-Month Average	Same as Primary	
	1.5 µg/m^3	Quarterly Average	Same as Primary	
Nitrogen Dioxide	0.053 ppm (100 µg/m^3)	Annual (Arithmetic Mean)	Same as Primary	
Particulate Matter (PM_{10})	150 µg/m^3	24-hour [3]	Same as Primary	
Particulate Matter ($PM_{2.5}$)	15.0 µg/m^3	Annual [4] (Arithmetic Mean)	Same as Primary	
	35 µg/m^3	24-hour [5]	Same as Primary	
Ozone	0.075 ppm (2008 std)	8-hour [6]	Same as Primary	
	0.08 ppm (1997 std)	8-hour [7]	Same as Primary	
	0.12 ppm	1-hour [8] (Applies only in limited areas)	Same as Primary	
Sulfur Dioxide	0.03 ppm	Annual (Arithmetic Mean)	0.5 ppm (1300 µg/m^3)	3-hour [1]
	0.14 ppm	24-hour [1]		

[1] Not to be exceeded more than once per year.

[2] Final rule signed October 15, 2008.

[3] Not to be exceeded more than once per year on average over 3 years.

[4] To attain this standard, the 3-year average of the weighted annual mean PM2.5 concentrations from single or multiple community-oriented monitors must not exceed 15.0 µg/m3.

[5] To attain this standard, the 3-year average of the 98th percentile of 24-hour concentrations at each population-oriented monitor within an area must not exceed 35 µg/m3 (effective December 17, 2006).

[6] To attain this standard, the 3-year average of the fourth-highest daily maximum 8-hour average ozone concentrations measured at each monitor within an area over each year must not exceed 0.075 ppm. (effective May 27, 2008)

[7] (a) To attain this standard, the 3-year average of the fourth-highest daily maximum 8-hour average ozone concentrations measured at each monitor within an area over each year must not exceed 0.08 ppm.

(b) The 1997 standard—and the implementation rules for that standard—will remain in place for implementation purposes as EPA undertakes rulemaking to address the transition from the 1997 ozone standard to the 2008 ozone standard.

[8] (a) The standard is attained when the expected number of days per calendar year with maximum hourly average concentrations above 0.12 ppm is ≤ 1.

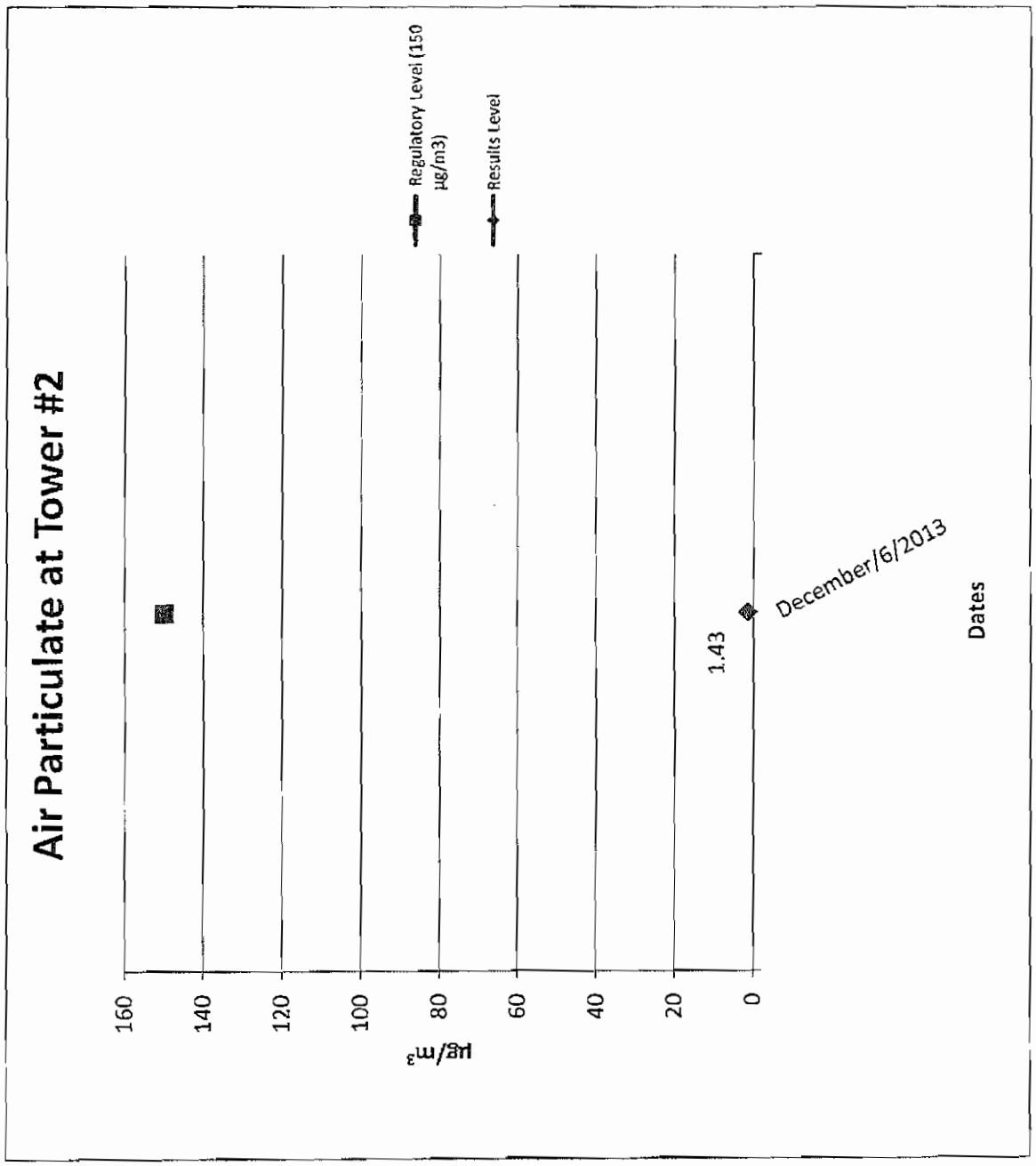
(b) As of June 15, 2005 EPA revoked the 1-hour ozone standard in all areas except the 8-hour ozone nonattainment Early Action Compact (EAC) Areas.

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APPENDIX 3
GRAPHICS OF MASS vs DATE

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APPENDIX 4
TOWER #1 AIR PARTICULATE MONITORING

```
"Model Number", "DataRAM 4 ", 106
 Serial no.  ", "D788      "
"Device no.  ", 1 Norte, PR OLEFINS
"Tag Number  ", 52
 Start Time  ", 08:05:21
 Start Date  ", 06-Dec-2013
"Log Period  ", 00:01:00
 Number      ", 1614
 CalFactor   ", 1.000000
"Unit        ", 0
"Unit Name   ", "(MASS )ug/m3"
 SIZE_CORRECT", "ENABLED"
 TEMPUNITS   ", F
"Max MASS    ", 38.222480
 Max MASS  @ ", 3  ,16:57:21  ,06-Dec-2013
 Avg MASS    ", 0.902197
"Max Diam    ", 3.853666
"Max Diam @  ", 3  ,08:04:21  ,06-Dec-2013
 Avg Diam    ", 0.396298
"ALARM       ", "DISABLED"
"ALARM_LEVEL ", 0.0
 AUTO_ZERO   ", "DISABLED"
 AZ INTERVAL ", 1
"Errors      ", 0000
"ecord,"(MASS )ug/m3", Temp, RHumidity, Diameter
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     2,        2.4,  73.1,   67,   0.34  ,08:07:21  ,06-Dec-2013
     3,        1.9,  73.4,   68,   0.34  ,08:08:21  ,06-Dec-2013
     4,        2.0,  73.6,   69,   0.33  ,08:09:21  ,06-Dec-2013
     5,        2.3,  73.8,   70,   0.31  ,08:10:21  ,06-Dec-2013
     6,        2.2,  74.1,   71,   0.33  ,08:11:21  ,06-Dec-2013
     7,        1.9,  74.4,   71,   0.36  ,08:12:21  ,06-Dec-2013
     8,        2.0,  74.6,   72,   0.33  ,08:13:21  ,06-Dec-2013
     9,        1.8,  74.9,   72,   0.34  ,08:14:21  ,06-Dec-2013
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    11,        2.0,  75.4,   73,   0.33  ,08:16:21  ,06-Dec-2013
    12,        2.0,  75.7,   73,   0.34  ,08:17:21  ,06-Dec-2013
    13,        1.8,  76.0,   73,   0.37  ,08:18:21  ,06-Dec-2013
    14,        1.7,  76.3,   73,   0.39  ,08:19:21  ,06-Dec-2013
    15,        1.7,  76.6,   73,   0.35  ,08:20:21  ,06-Dec-2013
    16,        1.6,  77.0,   73,   0.33  ,08:21:21  ,06-Dec-2013
    17,        1.0,  77.3,   73,   0.33  ,08:22:21  ,06-Dec-2013
    18,        0.9,  77.6,   73,   0.33  ,08:23:21  ,06-Dec-2013
    19,        1.1,  77.9,   73,   0.33  ,08:24:21  ,06-Dec-2013
    20,        1.0,  78.2,   73,   0.33  ,08:25:21  ,06-Dec-2013
    21,        0.9,  78.6,   73,   0.33  ,08:26:21  ,06-Dec-2013
    22,        0.9,  78.9,   73,   0.33  ,08:27:21  ,06-Dec-2013
    23,        0.9,  79.2,   73,   0.33  ,08:28:21  ,06-Dec-2013
    24,        1.2,  79.6,   72,   0.33  ,08:29:21  ,06-Dec-2013
    25,        1.0,  79.9,   72,   0.33  ,08:30:21  ,06-Dec-2013
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    27,        1.3,  80.5,   71,   0.33  ,08:32:21  ,06-Dec-2013
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    29,        1.1,  81.1,   70,   0.33  ,08:34:21  ,06-Dec-2013
    30,        0.8,  81.4,   70,   0.33  ,08:35:21  ,06-Dec-2013
    31,        1.0,  81.7,   70,   0.33  ,08:36:21  ,06-Dec-2013
    32,        1.4,  82.0,   69,   0.33  ,08:37:21  ,06-Dec-2013
    33,        1.3,  82.4,   69,   0.33  ,08:38:21  ,06-Dec-2013
    34,        0.9,  82.6,   69,   0.33  ,08:39:21  ,06-Dec-2013
    35,        1.1,  83.0,   68,   0.34  ,08:40:21  ,06-Dec-2013
    36,        1.2,  83.3,   68,   0.34  ,08:41:21  ,06-Dec-2013
    37,        0.7,  83.7,   68,   0.31  ,08:42:21  ,06-Dec-2013
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    39,        0.5,  84.3,   67,   0.32  ,08:44:21  ,06-Dec-2013
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46,	1.4,	86.6,	64,	0.30	,08:51:21	,06-Dec-2013
47,	1.6,	86.9,	64,	0.29	,08:52:21	,06-Dec-2013
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49,	1.2,	87.5,	63,	0.30	,08:54:21	,06-Dec-2013
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51,	1.9,	88.1,	61,	0.29	,08:56:21	,06-Dec-2013
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53,	1.5,	88.8,	60,	0.30	,08:58:21	,06-Dec-2013
54,	1.3,	89.1,	59,	0.31	,08:59:21	,06-Dec-2013
55,	1.4,	89.4,	59,	0.31	,09:00:21	,06-Dec-2013
56,	1.7,	89.7,	58,	0.30	,09:01:21	,06-Dec-2013
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58,	1.6,	90.3,	57,	0.31	,09:03:21	,06-Dec-2013
59,	1.2,	90.6,	57,	0.31	,09:04:21	,06-Dec-2013
60,	1.4,	90.9,	57,	0.31	,09:05:21	,06-Dec-2013
61,	1.6,	91.3,	56,	0.31	,09:06:21	,06-Dec-2013
62,	1.2,	91.6,	55,	0.31	,09:07:21	,06-Dec-2013
63,	1.4,	91.8,	55,	0.31	,09:08:21	,06-Dec-2013
64,	1.1,	92.2,	54,	0.32	,09:09:21	,06-Dec-2013
65,	1.2,	92.5,	54,	0.31	,09:10:21	,06-Dec-2013
66,	1.4,	92.8,	53,	0.31	,09:11:21	,06-Dec-2013
67,	1.3,	93.0,	52,	0.31	,09:12:21	,06-Dec-2013
68,	1.5,	93.3,	52,	0.31	,09:13:21	,06-Dec-2013
69,	1.0,	93.6,	51,	0.32	,09:14:21	,06-Dec-2013
70,	1.1,	93.9,	51,	0.35	,09:15:21	,06-Dec-2013
71,	1.2,	94.2,	51,	0.38	,09:16:21	,06-Dec-2013
72,	1.3,	94.4,	50,	0.38	,09:17:21	,06-Dec-2013
73,	1.1,	94.7,	50,	0.38	,09:18:21	,06-Dec-2013
74,	1.1,	95.0,	50,	0.39	,09:19:21	,06-Dec-2013
75,	1.2,	95.3,	49,	0.39	,09:20:21	,06-Dec-2013
76,	1.0,	95.5,	49,	0.37	,09:21:21	,06-Dec-2013
77,	1.4,	95.8,	48,	0.36	,09:22:21	,06-Dec-2013
78,	1.0,	96.1,	48,	0.36	,09:23:21	,06-Dec-2013
79,	0.9,	96.3,	48,	0.36	,09:24:21	,06-Dec-2013
80,	0.8,	96.6,	48,	0.35	,09:25:21	,06-Dec-2013
81,	1.0,	97.0,	47,	0.36	,09:26:21	,06-Dec-2013
82,	1.0,	97.2,	47,	0.36	,09:27:21	,06-Dec-2013
83,	0.7,	97.4,	47,	0.35	,09:28:21	,06-Dec-2013
84,	0.6,	97.8,	46,	0.35	,09:29:21	,06-Dec-2013
85,	0.4,	98.0,	45,	0.34	,09:30:21	,06-Dec-2013
86,	0.6,	98.3,	45,	0.35	,09:31:21	,06-Dec-2013
87,	0.5,	98.7,	44,	0.35	,09:32:21	,06-Dec-2013
88,	0.6,	98.9,	44,	0.35	,09:33:21	,06-Dec-2013
89,	0.9,	99.1,	44,	0.36	,09:34:21	,06-Dec-2013
90,	0.7,	99.4,	44,	0.35	,09:35:21	,06-Dec-2013
91,	1.0,	99.7,	43,	0.36	,09:36:21	,06-Dec-2013
92,	1.5,	99.9,	43,	0.42	,09:37:21	,06-Dec-2013
93,	0.9,	100.2,	43,	0.38	,09:38:21	,06-Dec-2013
94,	0.7,	100.5,	43,	0.37	,09:39:21	,06-Dec-2013
95,	0.9,	100.7,	43,	0.39	,09:40:21	,06-Dec-2013
96,	0.6,	101.0,	42,	0.36	,09:41:21	,06-Dec-2013
97,	1.1,	101.3,	42,	0.37	,09:42:21	,06-Dec-2013
98,	1.1,	101.5,	41,	0.37	,09:43:21	,06-Dec-2013
99,	0.9,	101.7,	41,	0.36	,09:44:21	,06-Dec-2013
100,	0.6,	102.0,	41,	0.35	,09:45:21	,06-Dec-2013
101,	1.0,	102.2,	41,	0.37	,09:46:21	,06-Dec-2013
102,	1.2,	102.4,	40,	0.40	,09:47:21	,06-Dec-2013
103,	0.9,	102.6,	40,	0.40	,09:48:21	,06-Dec-2013

104,	0.9,	102.8,	40,	0.39	,09:49:21	,06-Dec-2013
105,	0.3,	103.0,	40,	0.35	,09:50:21	,06-Dec-2013
106,	0.4,	103.2,	40,	0.36	,09:51:21	,06-Dec-2013
107,	0.5,	103.4,	39,	0.36	,09:52:21	,06-Dec-2013
108,	0.7,	103.6,	39,	0.38	,09:53:21	,06-Dec-2013
109,	0.8,	103.8,	39,	0.38	,09:54:21	,06-Dec-2013
110,	0.2,	104.0,	38,	0.34	,09:55:21	,06-Dec-2013
111,	0.6,	104.2,	38,	0.37	,09:56:21	,06-Dec-2013
112,	0.7,	104.4,	38,	0.37	,09:57:21	,06-Dec-2013
113,	1.1,	104.5,	38,	0.39	,09:58:21	,06-Dec-2013
114,	0.9,	104.8,	37,	0.37	,09:59:21	,06-Dec-2013
115,	0.6,	104.9,	37,	0.36	,10:00:21	,06-Dec-2013
116,	2.2,	105.1,	37,	0.61	,10:01:21	,06-Dec-2013
117,	0.8,	105.2,	37,	0.45	,10:02:21	,06-Dec-2013
118,	1.0,	105.3,	37,	0.47	,10:03:21	,06-Dec-2013
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120,	1.6,	105.5,	36,	0.44	,10:05:21	,06-Dec-2013
121,	0.6,	105.7,	36,	0.37	,10:06:21	,06-Dec-2013
122,	1.7,	105.8,	36,	0.44	,10:07:21	,06-Dec-2013
123,	1.9,	105.8,	36,	0.45	,10:08:21	,06-Dec-2013
124,	0.9,	105.9,	36,	0.37	,10:09:21	,06-Dec-2013
125,	1.0,	106.0,	35,	0.38	,10:10:21	,06-Dec-2013
126,	1.8,	106.0,	35,	0.48	,10:11:21	,06-Dec-2013
127,	0.7,	106.1,	35,	0.37	,10:12:21	,06-Dec-2013
128,	0.5,	106.1,	35,	0.36	,10:13:21	,06-Dec-2013
129,	0.9,	106.2,	35,	0.39	,10:14:21	,06-Dec-2013
130,	0.4,	106.2,	35,	0.36	,10:15:21	,06-Dec-2013
131,	0.5,	106.2,	35,	0.35	,10:16:21	,06-Dec-2013
132,	0.4,	106.2,	34,	0.35	,10:17:21	,06-Dec-2013
133,	0.4,	106.3,	34,	0.35	,10:18:21	,06-Dec-2013
134,	0.5,	106.4,	34,	0.35	,10:19:21	,06-Dec-2013
135,	2.3,	106.4,	34,	0.64	,10:20:21	,06-Dec-2013
136,	0.6,	106.5,	34,	0.41	,10:21:21	,06-Dec-2013
137,	2.0,	106.6,	34,	0.67	,10:22:21	,06-Dec-2013
138,	0.5,	106.6,	34,	0.39	,10:23:21	,06-Dec-2013
139,	0.2,	106.7,	34,	0.35	,10:24:21	,06-Dec-2013
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146,	1.4,	106.9,	34,	0.43	,10:31:21	,06-Dec-2013
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149,	0.3,	107.0,	33,	0.36	,10:34:21	,06-Dec-2013
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153,	0.1,	107.0,	33,	0.34	,10:38:21	,06-Dec-2013
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156,	0.2,	107.0,	33,	0.34	,10:41:21	,06-Dec-2013
157,	0.5,	107.0,	33,	0.35	,10:42:21	,06-Dec-2013
158,	0.6,	107.0,	33,	0.35	,10:43:21	,06-Dec-2013
159,	0.3,	107.0,	33,	0.34	,10:44:21	,06-Dec-2013
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161,	1.9,	107.0,	33,	0.58	,10:46:21	,06-Dec-2013
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163,	2.4,	107.1,	33,	0.70	,10:48:21	,06-Dec-2013
164,	0.8,	107.1,	33,	0.44	,10:49:21	,06-Dec-2013
165,	0.3,	107.1,	33,	0.37	,10:50:21	,06-Dec-2013
166,	0.5,	107.1,	33,	0.39	,10:51:21	,06-Dec-2013
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171,	0.8,	107.1,	33,	0.39	,10:56:21	,06-Dec-2013
172,	1.9,	107.1,	33,	0.54	,10:57:21	,06-Dec-2013
173,	5.2,	107.1,	33,	1.42	,10:58:21	,06-Dec-2013
174,	0.5,	107.1,	33,	0.41	,10:59:21	,06-Dec-2013
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178,	0.9,	107.0,	33,	0.39	,11:03:21	,06-Dec-2013
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182,	0.5,	106.9,	34,	0.36	,11:07:21	,06-Dec-2013
183,	0.6,	106.9,	33,	0.38	,11:08:21	,06-Dec-2013
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236,	0.1,	106.7,	33,	0.33	,12:01:21	,06-Dec-2013
237,	0.1,	106.6,	33,	0.33	,12:02:21	,06-Dec-2013
238,	0.2,	106.5,	33,	0.33	,12:03:21	,06-Dec-2013
239,	0.5,	106.4,	33,	0.34	,12:04:21	,06-Dec-2013
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259,	0.1,	105.7,	35,	0.33	,12:24:21	,06-Dec-2013
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269,	0.2,	105.8,	35,	0.34	,12:34:21	,06-Dec-2013
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271,	2.2,	105.9,	35,	0.88	,12:36:21	,06-Dec-2013
272,	25.2,	105.9,	35,	3.42	,12:37:21	,06-Dec-2013
273,	3.7,	105.9,	35,	1.33	,12:38:21	,06-Dec-2013
274,	0.1,	105.9,	35,	0.35	,12:39:21	,06-Dec-2013
275,	0.0,	106.0,	35,	0.34	,12:40:21	,06-Dec-2013
276,	2.5,	105.9,	35,	0.79	,12:41:21	,06-Dec-2013
277,	8.5,	105.9,	35,	1.74	,12:42:21	,06-Dec-2013
278,	3.1,	105.9,	35,	0.96	,12:43:21	,06-Dec-2013
279,	20.7,	105.8,	34,	3.47	,12:44:21	,06-Dec-2013
280,	0.6,	105.7,	35,	0.56	,12:45:21	,06-Dec-2013
281,	0.0,	105.5,	35,	0.35	,12:46:21	,06-Dec-2013
282,	0.3,	105.4,	35,	0.43	,12:47:21	,06-Dec-2013
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287,	0.0,	105.3,	36,	0.33	,12:52:21	,06-Dec-2013
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299,	0.0,	105.3,	36,	0.33	,13:04:21	,06-Dec-2013
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303,	38.2,	105.4,	36,	3.85	,13:08:21	,06-Dec-2013
304,	17.7,	105.5,	36,	2.42	,13:09:21	,06-Dec-2013
305,	0.1,	105.7,	35,	0.35	,13:10:21	,06-Dec-2013
306,	0.3,	105.6,	35,	0.41	,13:11:21	,06-Dec-2013
307,	0.1,	105.6,	35,	0.35	,13:12:21	,06-Dec-2013
308,	0.7,	105.6,	35,	0.58	,13:13:21	,06-Dec-2013
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310,	2.9,	105.3,	35,	0.94	,13:15:21	,06-Dec-2013
311,	1.9,	105.2,	35,	0.72	,13:16:21	,06-Dec-2013
312,	8.3,	105.2,	35,	1.04	,13:17:21	,06-Dec-2013
313,	25.0,	105.1,	35,	3.47	,13:18:21	,06-Dec-2013
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321,	3.7,	105.4,	36,	1.03	,13:26:21	,06-Dec-2013
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325,	26.9,	105.8,	35,	1.23	,13:30:21	,06-Dec-2013
326,	25.4,	105.9,	35,	2.68	,13:31:21	,06-Dec-2013
327,	0.3,	106.0,	35,	0.46	,13:32:21	,06-Dec-2013
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333,	3.3,	105.8,	35,	0.90	,13:38:21	,06-Dec-2013
334,	26.0,	105.7,	36,	2.54	,13:39:21	,06-Dec-2013
335,	4.7,	105.6,	36,	1.75	,13:40:21	,06-Dec-2013
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337,	6.8,	105.4,	36,	1.85	,13:42:21	,06-Dec-2013
338,	15.8,	105.3,	35,	3.53	,13:43:21	,06-Dec-2013
339,	22.1,	105.2,	36,	3.49	,13:44:21	,06-Dec-2013
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341,	10.4,	104.9,	36,	2.80	,13:46:21	,06-Dec-2013
342,	1.6,	104.8,	36,	0.78	,13:47:21	,06-Dec-2013
343,	0.6,	104.6,	36,	0.46	,13:48:21	,06-Dec-2013
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345,	0.3,	104.3,	36,	0.44	,13:50:21	,06-Dec-2013
346,	1.7,	104.2,	37,	0.70	,13:51:21	,06-Dec-2013
347,	4.5,	104.1,	37,	1.17	,13:52:21	,06-Dec-2013
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353,	0.1,	103.0,	38,	0.34	,13:58:21	,06-Dec-2013
354,	0.1,	102.7,	38,	0.34	,13:59:21	,06-Dec-2013
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357,	0.3,	102.1,	39,	0.35	,14:02:21	,06-Dec-2013
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363,	0.1,	100.7,	40,	0.33	,14:08:21	,06-Dec-2013
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369,	0.0,	99.4,	41,	0.33	,14:14:21	,06-Dec-2013
370,	0.1,	99.2,	41,	0.33	,14:15:21	,06-Dec-2013
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374,	0.0,	98.4,	42,	0.33	,14:19:21	,06-Dec-2013
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481,	1.5,	87.7,	61,	0.37	,16:06:21	,06-Dec-2013
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594,	0.7,	79.7,	77,	0.37	,17:59:21	,06-Dec-2013
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597,	0.5,	79.5,	77,	0.36	,18:02:21	,06-Dec-2013
598,	0.5,	79.4,	77,	0.36	,18:03:21	,06-Dec-2013
599,	0.4,	79.3,	77,	0.36	,18:04:21	,06-Dec-2013
600,	0.4,	79.3,	77,	0.36	,18:05:21	,06-Dec-2013
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602,	0.5,	79.2,	77,	0.36	,18:07:21	,06-Dec-2013
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607,	0.3,	78.9,	77,	0.35	,18:12:21	,06-Dec-2013
608,	0.2,	78.9,	77,	0.35	,18:13:21	,06-Dec-2013
609,	0.2,	78.8,	77,	0.35	,18:14:21	,06-Dec-2013
610,	0.3,	78.8,	77,	0.35	,18:15:21	,06-Dec-2013
611,	0.4,	78.7,	77,	0.35	,18:16:21	,06-Dec-2013
612,	0.1,	78.6,	77,	0.34	,18:17:21	,06-Dec-2013
613,	0.2,	78.6,	77,	0.34	,18:18:21	,06-Dec-2013
614,	0.3,	78.4,	76,	0.35	,18:19:21	,06-Dec-2013
615,	0.2,	78.4,	76,	0.34	,18:20:21	,06-Dec-2013

616,	0.2,	78.3,	76,	0.34	,18:21:21	,06-Dec-2013
617,	0.2,	78.3,	76,	0.34	,18:22:21	,06-Dec-2013
618,	0.0,	78.2,	76,	0.33	,18:23:21	,06-Dec-2013
619,	0.1,	78.2,	76,	0.34	,18:24:21	,06-Dec-2013
620,	0.2,	78.1,	76,	0.34	,18:25:21	,06-Dec-2013
621,	0.1,	78.0,	76,	0.34	,18:26:21	,06-Dec-2013
622,	0.1,	78.0,	76,	0.34	,18:27:21	,06-Dec-2013
623,	0.2,	77.9,	76,	0.35	,18:28:21	,06-Dec-2013
624,	0.2,	77.9,	76,	0.34	,18:29:21	,06-Dec-2013
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628,	0.2,	77.6,	76,	0.34	,18:33:21	,06-Dec-2013
629,	0.1,	77.5,	76,	0.34	,18:34:21	,06-Dec-2013
630,	0.4,	77.5,	76,	0.35	,18:35:21	,06-Dec-2013
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645,	0.5,	76.8,	77,	0.36	,18:50:21	,06-Dec-2013
646,	0.4,	76.7,	77,	0.36	,18:51:21	,06-Dec-2013
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656,	0.6,	76.2,	78,	0.37	,19:01:21	,06-Dec-2013
657,	0.7,	76.2,	78,	0.37	,19:02:21	,06-Dec-2013
658,	0.6,	76.2,	78,	0.36	,19:03:21	,06-Dec-2013
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661,	0.5,	76.0,	78,	0.36	,19:06:21	,06-Dec-2013
662,	0.3,	76.0,	78,	0.35	,19:07:21	,06-Dec-2013
663,	0.3,	75.9,	78,	0.35	,19:08:21	,06-Dec-2013
664,	0.1,	75.8,	78,	0.34	,19:09:21	,06-Dec-2013
665,	0.4,	75.8,	78,	0.35	,19:10:21	,06-Dec-2013
666,	0.2,	75.7,	78,	0.35	,19:11:21	,06-Dec-2013
667,	0.3,	75.7,	78,	0.35	,19:12:21	,06-Dec-2013
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669,	0.2,	75.6,	78,	0.34	,19:14:21	,06-Dec-2013
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674,	0.3,	75.4,	78,	0.35	,19:19:21	,06-Dec-2013
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676,	0.1,	75.3,	78,	0.34	,19:21:21	,06-Dec-2013
677,	0.4,	75.3,	78,	0.36	,19:22:21	,06-Dec-2013
678,	0.6,	75.3,	78,	0.36	,19:23:21	,06-Dec-2013
679,	0.3,	75.2,	78,	0.35	,19:24:21	,06-Dec-2013

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689,	0.3,	74.8,	78,	0.35	,19:34:21	,06-Dec-2013
690,	0.2,	74.8,	79,	0.34	,19:35:21	,06-Dec-2013
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695,	0.3,	74.6,	79,	0.35	,19:40:21	,06-Dec-2013
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707,	0.2,	74.2,	79,	0.34	,19:52:21	,06-Dec-2013
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718,	0.4,	73.8,	79,	0.36	,20:03:21	,06-Dec-2013
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721,	0.4,	73.7,	80,	0.35	,20:06:21	,06-Dec-2013
722,	0.4,	73.7,	80,	0.36	,20:07:21	,06-Dec-2013
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727,	0.4,	73.5,	80,	0.35	,20:12:21	,06-Dec-2013
728,	0.3,	73.5,	80,	0.35	,20:13:21	,06-Dec-2013
729,	0.2,	73.5,	80,	0.35	,20:14:21	,06-Dec-2013
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733,	0.1,	73.4,	80,	0.34	,20:18:21	,06-Dec-2013
734,	0.3,	73.3,	80,	0.35	,20:19:21	,06-Dec-2013
735,	0.1,	73.3,	80,	0.34	,20:20:21	,06-Dec-2013
736,	0.2,	73.3,	80,	0.34	,20:21:21	,06-Dec-2013
737,	0.1,	73.3,	80,	0.34	,20:22:21	,06-Dec-2013
738,	0.1,	73.3,	80,	0.34	,20:23:21	,06-Dec-2013
739,	0.1,	73.2,	80,	0.34	,20:24:21	,06-Dec-2013
740,	0.2,	73.2,	80,	0.34	,20:25:21	,06-Dec-2013
741,	0.1,	73.1,	80,	0.34	,20:26:21	,06-Dec-2013
742,	0.3,	73.1,	80,	0.35	,20:27:21	,06-Dec-2013
743,	0.2,	73.0,	80,	0.35	,20:28:21	,06-Dec-2013

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756,	0.2,	72.7,	80,	0.36	,20:41:21	,06-Dec-2013
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767,	0.6,	72.4,	81,	0.43	,20:52:21	,06-Dec-2013
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769,	0.3,	72.4,	81,	0.37	,20:54:21	,06-Dec-2013
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772,	0.3,	72.2,	81,	0.38	,20:57:21	,06-Dec-2013
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775,	0.6,	72.1,	82,	0.42	,21:00:21	,06-Dec-2013
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778,	0.7,	72.1,	82,	0.42	,21:03:21	,06-Dec-2013
779,	0.7,	72.0,	82,	0.43	,21:04:21	,06-Dec-2013
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783,	0.5,	71.9,	82,	0.39	,21:08:21	,06-Dec-2013
784,	0.6,	71.9,	82,	0.41	,21:09:21	,06-Dec-2013
785,	0.5,	71.9,	82,	0.40	,21:10:21	,06-Dec-2013
786,	0.7,	71.9,	82,	0.43	,21:11:21	,06-Dec-2013
787,	0.6,	71.9,	82,	0.41	,21:12:21	,06-Dec-2013
788,	0.7,	71.8,	82,	0.42	,21:13:21	,06-Dec-2013
789,	0.6,	71.8,	83,	0.39	,21:14:21	,06-Dec-2013
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798,	0.5,	71.6,	83,	0.37	,21:23:21	,06-Dec-2013
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811,	0.5,	71.2,	84,	0.38	,21:36:21	,06-Dec-2013
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813,	1.2,	71.2,	84,	0.35	,21:38:21	,06-Dec-2013
814,	1.1,	71.2,	84,	0.35	,21:39:21	,06-Dec-2013
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820,	0.3,	71.0,	84,	0.33	,21:45:21	,06-Dec-2013
821,	0.3,	71.0,	84,	0.33	,21:46:21	,06-Dec-2013
822,	0.3,	71.0,	84,	0.33	,21:47:21	,06-Dec-2013
823,	0.3,	71.0,	84,	0.33	,21:48:21	,06-Dec-2013
824,	0.3,	71.0,	84,	0.33	,21:49:21	,06-Dec-2013
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1055,	0.4,	69.4,	86,	0.33	,01:40:21	,07-Dec-2013
1056,	0.4,	69.4,	86,	0.33	,01:41:21	,07-Dec-2013
1057,	0.4,	69.4,	86,	0.33	,01:42:21	,07-Dec-2013
1058,	0.4,	69.4,	86,	0.33	,01:43:21	,07-Dec-2013
1059,	0.4,	69.3,	86,	0.33	,01:44:21	,07-Dec-2013
1060,	0.5,	69.3,	86,	0.33	,01:45:21	,07-Dec-2013
1061,	0.6,	69.3,	86,	0.33	,01:46:21	,07-Dec-2013
1062,	0.5,	69.3,	86,	0.33	,01:47:21	,07-Dec-2013
1063,	0.4,	69.3,	86,	0.33	,01:48:21	,07-Dec-2013

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1065,	0.4,	69.2,	86,	0.33	,01:50:21	,07-Dec-2013
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1067,	0.4,	69.2,	85,	0.33	,01:52:21	,07-Dec-2013
1068,	0.4,	69.1,	85,	0.33	,01:53:21	,07-Dec-2013
1069,	0.4,	69.1,	85,	0.33	,01:54:21	,07-Dec-2013
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1071,	0.4,	69.1,	85,	0.33	,01:56:21	,07-Dec-2013
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1074,	0.6,	69.0,	86,	0.33	,01:59:21	,07-Dec-2013
1075,	0.4,	69.0,	86,	0.33	,02:00:21	,07-Dec-2013
1076,	0.5,	69.0,	86,	0.33	,02:01:21	,07-Dec-2013
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1078,	0.4,	68.9,	86,	0.33	,02:03:21	,07-Dec-2013
1079,	0.5,	68.9,	86,	0.33	,02:04:21	,07-Dec-2013
1080,	0.6,	68.9,	86,	0.33	,02:05:21	,07-Dec-2013
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1094,	0.6,	68.6,	87,	0.35	,02:19:21	,07-Dec-2013
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1097,	0.7,	68.6,	87,	0.35	,02:22:21	,07-Dec-2013
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1115,	0.7,	68.3,	87,	0.34	,02:40:21	,07-Dec-2013
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1117,	0.6,	68.3,	87,	0.34	,02:42:21	,07-Dec-2013
1118,	0.5,	68.3,	87,	0.34	,02:43:21	,07-Dec-2013
1119,	0.5,	68.3,	87,	0.34	,02:44:21	,07-Dec-2013
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1121,	0.6,	68.3,	87,	0.34	,02:46:21	,07-Dec-2013
1122,	0.5,	68.3,	87,	0.34	,02:47:21	,07-Dec-2013
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1125,	0.6,	68.2,	87,	0.34	,02:50:21	,07-Dec-2013
1126,	0.5,	68.2,	87,	0.34	,02:51:21	,07-Dec-2013
1127,	0.6,	68.2,	88,	0.34	,02:52:21	,07-Dec-2013

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1143,	0.8,	68.2,	89,	0.33	,03:08:21	,07-Dec-2013
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1194,	0.6,	67.6,	88,	0.34	,03:59:21	,07-Dec-2013
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1196,	0.7,	67.5,	88,	0.34	,04:01:21	,07-Dec-2013
1197,	0.6,	67.5,	88,	0.34	,04:02:21	,07-Dec-2013
1198,	0.8,	67.5,	88,	0.34	,04:03:21	,07-Dec-2013
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1205,	0.8,	67.4,	89,	0.33	,04:10:21	,07-Dec-2013
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1209,	0.7,	67.4,	89,	0.32	,04:14:21	,07-Dec-2013
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1211,	0.8,	67.4,	89,	0.32	,04:16:21	,07-Dec-2013
1212,	0.8,	67.4,	89,	0.32	,04:17:21	,07-Dec-2013
1213,	0.8,	67.4,	89,	0.32	,04:18:21	,07-Dec-2013
1214,	0.7,	67.4,	89,	0.33	,04:19:21	,07-Dec-2013
1215,	0.7,	67.4,	89,	0.33	,04:20:21	,07-Dec-2013
1216,	0.8,	67.3,	89,	0.33	,04:21:21	,07-Dec-2013
1217,	0.7,	67.4,	89,	0.33	,04:22:21	,07-Dec-2013
1218,	0.8,	67.3,	89,	0.33	,04:23:21	,07-Dec-2013
1219,	0.6,	67.3,	89,	0.33	,04:24:21	,07-Dec-2013
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1239,	0.8,	67.1,	89,	0.31	,04:44:21	,07-Dec-2013
1240,	0.9,	67.1,	89,	0.31	,04:45:21	,07-Dec-2013
1241,	0.8,	67.1,	89,	0.31	,04:46:21	,07-Dec-2013
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1243,	0.8,	67.1,	89,	0.32	,04:48:21	,07-Dec-2013
1244,	0.8,	67.1,	89,	0.32	,04:49:21	,07-Dec-2013
1245,	0.8,	67.1,	89,	0.32	,04:50:21	,07-Dec-2013
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1247,	0.8,	67.1,	89,	0.32	,04:52:21	,07-Dec-2013
1248,	0.7,	67.0,	89,	0.32	,04:53:21	,07-Dec-2013
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1258,	0.8,	41.4,	89,	0.30	,05:03:21	,07-Dec-2013
1259,	0.0,	51.2,	89,	0.30	,05:04:21	,07-Dec-2013
1260,	1.0,	67.0,	89,	0.30	,05:05:21	,07-Dec-2013
1261,	0.9,	66.9,	89,	0.30	,05:06:21	,07-Dec-2013
1262,	0.9,	66.9,	89,	0.30	,05:07:21	,07-Dec-2013
1263,	0.9,	66.9,	89,	0.30	,05:08:21	,07-Dec-2013
1264,	0.8,	66.9,	89,	0.30	,05:09:21	,07-Dec-2013
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1266,	0.8,	66.9,	89,	0.31	,05:11:21	,07-Dec-2013
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1269,	0.7,	66.8,	89,	0.31	,05:14:21	,07-Dec-2013
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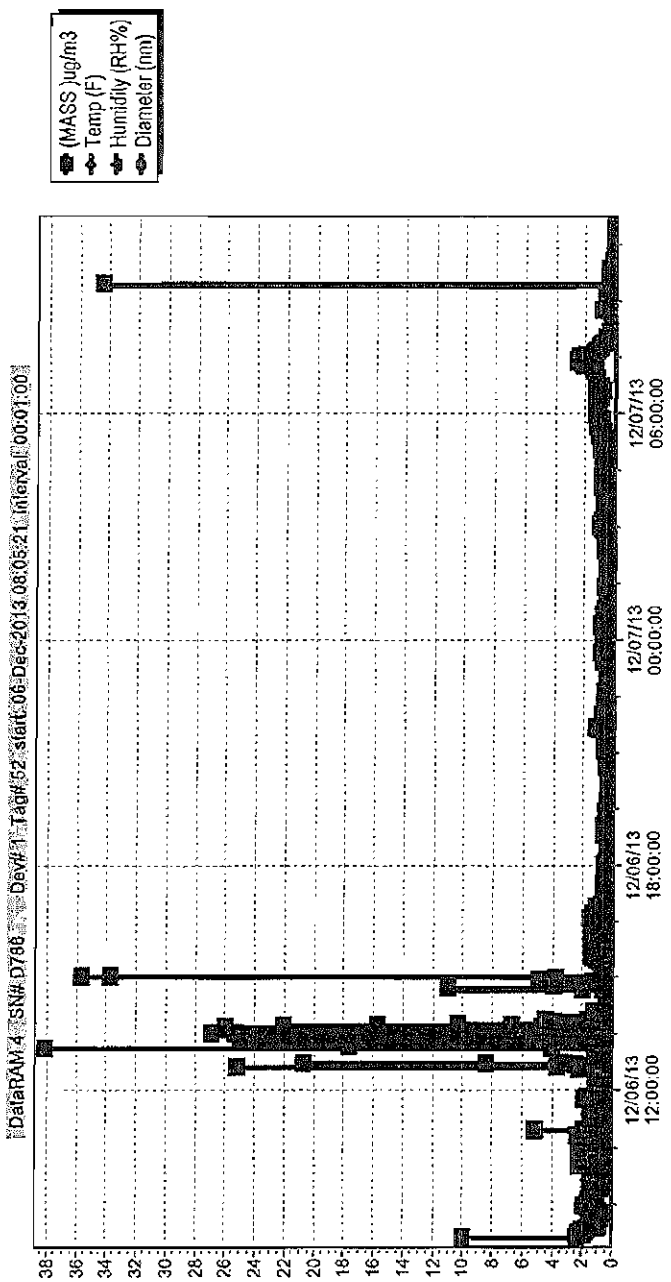
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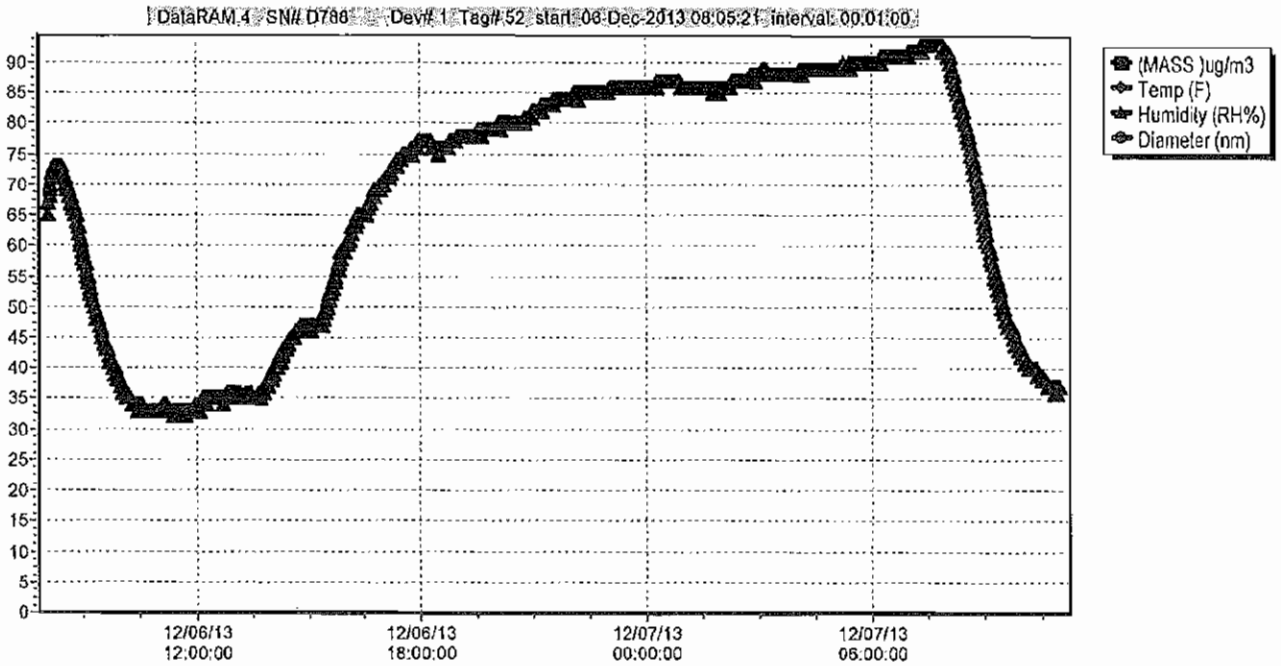
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1614,	0.1,	101.4,	37,	0.33	,10:59:21	,07-Dec-2013



CONFIDENTIAL & PRIVILEDGE

CONFIDENTIAL & PRIVILEGE



CONFIDENTIAL & COMMERCIAL

CONFIDENTIAL & PRIVILEDGE

APPENDIX 5
TOWER #2 AIR PARTICULATE MONITORING

CONFIDENTIAL & PRIVILEGE

```
"Serial no.  ", "D787      "
 Device no.  ", 2 Sur PR OLEFINS
"Tag Number  ", 60
"Start Time  ", 08:18:43
 Start Date  ", 06-Dec-2013
 Log Period  ", 00:01:00
"Number      ", 1701
 CalFactor   ", 1.000000
 Unit        ", 0
"Unit Name   ", "(MASS )ug/m3"
"SIZE_CORRECT", "ENABLED"
 TEMPUNITS   ", F
"Max MASS    ", 9.276475
"Max MASS  @ ",   ,03:09:43    ,06-Dec-2013
 Avg MASS    ", 1.427454
 Max Diam    ", 0.716087
"Max Diam @  ", 16  ,08:17:43  ,06-Dec-2013
"Avg Diam    ", 0.308048
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"ALARM_LEVEL ", 0.0
"AUTO_ZERO   ", "DISABLED"
 AZ INTERVAL ", 1
 Errors      ", 0000
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333,	0.6,	100.3,	44,	0.32	,13:51:43	,06-Dec-2013
334,	0.8,	100.2,	44,	0.31	,13:52:43	,06-Dec-2013
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345,	0.0,	98.7,	46,	0.33	,14:03:43	,06-Dec-2013
346,	0.1,	98.6,	46,	0.33	,14:04:43	,06-Dec-2013
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373,	0.2,	94.4,	48,	0.33	,14:31:43	,06-Dec-2013
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803,	1.2,	70.8,	78,	0.30	,21:41:43	,06-Dec-2013
804,	1.3,	70.8,	78,	0.30	,21:42:43	,06-Dec-2013
805,	1.3,	70.8,	78,	0.30	,21:43:43	,06-Dec-2013
806,	1.4,	70.8,	78,	0.30	,21:44:43	,06-Dec-2013
807,	1.3,	70.8,	78,	0.30	,21:45:43	,06-Dec-2013
808,	1.4,	70.8,	78,	0.30	,21:46:43	,06-Dec-2013

809,	1.4,	70.7,	78,	0.30	,21:47:43	,06-Dec-2013
810,	1.1,	70.7,	78,	0.30	,21:48:43	,06-Dec-2013
811,	1.1,	70.8,	78,	0.30	,21:49:43	,06-Dec-2013
812,	1.2,	70.7,	78,	0.30	,21:50:43	,06-Dec-2013
813,	1.3,	70.7,	78,	0.30	,21:51:43	,06-Dec-2013
814,	1.1,	70.7,	78,	0.31	,21:52:43	,06-Dec-2013
815,	1.2,	70.7,	78,	0.30	,21:53:43	,06-Dec-2013
816,	1.3,	70.7,	78,	0.30	,21:54:43	,06-Dec-2013
817,	1.2,	70.7,	78,	0.30	,21:55:43	,06-Dec-2013
818,	1.3,	70.7,	78,	0.30	,21:56:43	,06-Dec-2013
819,	1.5,	70.7,	78,	0.30	,21:57:43	,06-Dec-2013
820,	1.5,	70.7,	78,	0.30	,21:58:43	,06-Dec-2013
821,	1.4,	70.6,	78,	0.30	,21:59:43	,06-Dec-2013
822,	1.3,	70.6,	78,	0.30	,22:00:43	,06-Dec-2013
823,	1.5,	70.6,	78,	0.30	,22:01:43	,06-Dec-2013
824,	1.4,	70.6,	78,	0.30	,22:02:43	,06-Dec-2013
825,	1.5,	70.6,	78,	0.30	,22:03:43	,06-Dec-2013
826,	1.4,	70.6,	78,	0.30	,22:04:43	,06-Dec-2013
827,	1.4,	70.6,	78,	0.30	,22:05:43	,06-Dec-2013
828,	1.7,	70.6,	78,	0.29	,22:06:43	,06-Dec-2013
829,	1.9,	70.6,	78,	0.28	,22:07:43	,06-Dec-2013
830,	1.8,	70.5,	78,	0.28	,22:08:43	,06-Dec-2013
831,	1.6,	70.5,	78,	0.28	,22:09:43	,06-Dec-2013
832,	1.7,	70.4,	78,	0.29	,22:10:43	,06-Dec-2013
833,	1.6,	70.4,	79,	0.30	,22:11:43	,06-Dec-2013
834,	1.6,	70.4,	79,	0.30	,22:12:43	,06-Dec-2013
835,	1.7,	70.4,	79,	0.29	,22:13:43	,06-Dec-2013
836,	1.4,	70.3,	78,	0.30	,22:14:43	,06-Dec-2013
837,	1.6,	70.4,	79,	0.29	,22:15:43	,06-Dec-2013
838,	1.7,	70.3,	78,	0.29	,22:16:43	,06-Dec-2013
839,	1.5,	70.3,	79,	0.29	,22:17:43	,06-Dec-2013
840,	1.7,	70.3,	79,	0.29	,22:18:43	,06-Dec-2013
841,	1.7,	70.3,	79,	0.29	,22:19:43	,06-Dec-2013
842,	1.7,	70.3,	79,	0.29	,22:20:43	,06-Dec-2013
843,	1.8,	70.3,	79,	0.28	,22:21:43	,06-Dec-2013
844,	1.7,	70.2,	79,	0.28	,22:22:43	,06-Dec-2013
845,	1.5,	70.3,	79,	0.29	,22:23:43	,06-Dec-2013
846,	1.3,	70.3,	79,	0.30	,22:24:43	,06-Dec-2013
847,	1.4,	70.2,	79,	0.29	,22:25:43	,06-Dec-2013
848,	1.6,	70.2,	79,	0.29	,22:26:43	,06-Dec-2013
849,	1.7,	70.2,	79,	0.29	,22:27:43	,06-Dec-2013
850,	1.7,	70.2,	79,	0.29	,22:28:43	,06-Dec-2013
851,	1.6,	70.2,	79,	0.29	,22:29:43	,06-Dec-2013
852,	1.6,	70.1,	79,	0.29	,22:30:43	,06-Dec-2013
853,	1.4,	70.1,	79,	0.29	,22:31:43	,06-Dec-2013
854,	1.7,	70.1,	79,	0.29	,22:32:43	,06-Dec-2013
855,	1.6,	70.1,	79,	0.29	,22:33:43	,06-Dec-2013
856,	1.7,	70.1,	79,	0.29	,22:34:43	,06-Dec-2013
857,	1.6,	70.1,	79,	0.31	,22:35:43	,06-Dec-2013
858,	1.4,	70.1,	79,	0.33	,22:36:43	,06-Dec-2013
859,	1.2,	70.1,	79,	0.33	,22:37:43	,06-Dec-2013
860,	1.4,	70.1,	79,	0.33	,22:38:43	,06-Dec-2013
861,	1.4,	70.1,	79,	0.33	,22:39:43	,06-Dec-2013
862,	1.5,	70.0,	79,	0.32	,22:40:43	,06-Dec-2013
863,	1.5,	70.0,	79,	0.32	,22:41:43	,06-Dec-2013
864,	1.5,	70.0,	79,	0.31	,22:42:43	,06-Dec-2013
865,	1.4,	70.0,	79,	0.30	,22:43:43	,06-Dec-2013
866,	1.2,	70.0,	79,	0.30	,22:44:43	,06-Dec-2013
867,	1.4,	69.9,	79,	0.29	,22:45:43	,06-Dec-2013
868,	1.6,	69.9,	79,	0.29	,22:46:43	,06-Dec-2013
869,	1.7,	69.9,	79,	0.28	,22:47:43	,06-Dec-2013
870,	1.8,	69.9,	79,	0.28	,22:48:43	,06-Dec-2013
871,	1.7,	69.9,	79,	0.28	,22:49:43	,06-Dec-2013
872,	1.6,	69.9,	79,	0.28	,22:50:43	,06-Dec-2013

873,	1.5,	69.9,	79,	0.28	,22:51:43	,06-Dec-2013
874,	2.1,	69.9,	79,	0.27	,22:52:43	,06-Dec-2013
875,	2.1,	69.9,	79,	0.27	,22:53:43	,06-Dec-2013
876,	1.8,	69.8,	79,	0.28	,22:54:43	,06-Dec-2013
877,	2.0,	69.8,	79,	0.27	,22:55:43	,06-Dec-2013
878,	2.1,	69.8,	79,	0.27	,22:56:43	,06-Dec-2013
879,	2.1,	69.8,	79,	0.26	,22:57:43	,06-Dec-2013
880,	2.0,	69.8,	79,	0.28	,22:58:43	,06-Dec-2013
881,	2.0,	69.7,	79,	0.28	,22:59:43	,06-Dec-2013
882,	1.9,	69.7,	79,	0.29	,23:00:43	,06-Dec-2013
883,	1.9,	69.7,	79,	0.29	,23:01:43	,06-Dec-2013
884,	2.0,	69.7,	79,	0.28	,23:02:43	,06-Dec-2013
885,	2.0,	69.7,	79,	0.28	,23:03:43	,06-Dec-2013
886,	1.7,	69.7,	79,	0.29	,23:04:43	,06-Dec-2013
887,	1.9,	69.7,	79,	0.29	,23:05:43	,06-Dec-2013
888,	2.0,	69.7,	79,	0.28	,23:06:43	,06-Dec-2013
889,	2.1,	69.7,	79,	0.28	,23:07:43	,06-Dec-2013
890,	2.0,	69.6,	79,	0.28	,23:08:43	,06-Dec-2013
891,	2.1,	69.6,	79,	0.27	,23:09:43	,06-Dec-2013
892,	1.8,	69.5,	79,	0.27	,23:10:43	,06-Dec-2013
893,	2.0,	69.5,	79,	0.27	,23:11:43	,06-Dec-2013
894,	2.0,	69.5,	79,	0.27	,23:12:43	,06-Dec-2013
895,	1.8,	69.4,	79,	0.29	,23:13:43	,06-Dec-2013
896,	1.7,	69.5,	79,	0.29	,23:14:43	,06-Dec-2013
897,	1.8,	69.4,	79,	0.28	,23:15:43	,06-Dec-2013
898,	1.8,	69.4,	79,	0.28	,23:16:43	,06-Dec-2013
899,	1.8,	69.4,	79,	0.28	,23:17:43	,06-Dec-2013
900,	2.2,	69.4,	79,	0.28	,23:18:43	,06-Dec-2013
901,	2.2,	69.4,	80,	0.27	,23:19:43	,06-Dec-2013
902,	2.1,	69.4,	80,	0.27	,23:20:43	,06-Dec-2013
903,	2.2,	69.3,	80,	0.28	,23:21:43	,06-Dec-2013
904,	2.4,	69.3,	80,	0.26	,23:22:43	,06-Dec-2013
905,	2.2,	69.3,	80,	0.27	,23:23:43	,06-Dec-2013
906,	2.3,	69.3,	80,	0.27	,23:24:43	,06-Dec-2013
907,	2.2,	69.2,	80,	0.27	,23:25:43	,06-Dec-2013
908,	2.6,	69.2,	80,	0.26	,23:26:43	,06-Dec-2013
909,	2.5,	69.2,	80,	0.25	,23:27:43	,06-Dec-2013
910,	2.8,	69.2,	80,	0.25	,23:28:43	,06-Dec-2013
911,	2.7,	69.2,	80,	0.25	,23:29:43	,06-Dec-2013
912,	2.3,	69.2,	80,	0.27	,23:30:43	,06-Dec-2013
913,	2.5,	69.2,	80,	0.26	,23:31:43	,06-Dec-2013
914,	2.5,	69.2,	80,	0.25	,23:32:43	,06-Dec-2013
915,	2.3,	69.1,	80,	0.26	,23:33:43	,06-Dec-2013
916,	2.2,	69.1,	80,	0.28	,23:34:43	,06-Dec-2013
917,	2.3,	69.1,	80,	0.27	,23:35:43	,06-Dec-2013
918,	2.4,	69.1,	80,	0.26	,23:36:43	,06-Dec-2013
919,	2.4,	69.0,	80,	0.25	,23:37:43	,06-Dec-2013
920,	2.5,	69.0,	80,	0.25	,23:38:43	,06-Dec-2013
921,	2.6,	69.0,	80,	0.25	,23:39:43	,06-Dec-2013
922,	2.3,	69.0,	80,	0.26	,23:40:43	,06-Dec-2013
923,	2.3,	69.0,	79,	0.27	,23:41:43	,06-Dec-2013
924,	2.3,	69.0,	80,	0.28	,23:42:43	,06-Dec-2013
925,	2.5,	69.0,	80,	0.26	,23:43:43	,06-Dec-2013
926,	2.4,	69.0,	80,	0.27	,23:44:43	,06-Dec-2013
927,	2.0,	68.9,	80,	0.29	,23:45:43	,06-Dec-2013
928,	2.1,	68.9,	80,	0.28	,23:46:43	,06-Dec-2013
929,	2.2,	68.9,	80,	0.27	,23:47:43	,06-Dec-2013
930,	1.9,	68.9,	80,	0.28	,23:48:43	,06-Dec-2013
931,	2.1,	68.8,	80,	0.27	,23:49:43	,06-Dec-2013
932,	1.8,	68.8,	80,	0.26	,23:50:43	,06-Dec-2013
933,	2.1,	68.8,	80,	0.26	,23:51:43	,06-Dec-2013
934,	1.5,	68.8,	80,	0.28	,23:52:43	,06-Dec-2013
935,	1.5,	68.8,	80,	0.28	,23:53:43	,06-Dec-2013
936,	1.7,	68.8,	80,	0.28	,23:54:43	,06-Dec-2013

937,	1.5,	68.7,	80,	0.29	,23:55:43	,06-Dec-2013
938,	1.4,	68.7,	80,	0.29	,23:56:43	,06-Dec-2013
939,	1.4,	68.7,	80,	0.29	,23:57:43	,06-Dec-2013
940,	1.5,	68.7,	80,	0.29	,23:58:43	,06-Dec-2013
941,	1.7,	68.6,	80,	0.28	,23:59:43	,06-Dec-2013
942,	1.8,	68.6,	80,	0.27	,00:00:43	,07-Dec-2013
943,	2.0,	68.6,	80,	0.27	,00:01:43	,07-Dec-2013
944,	1.9,	68.6,	80,	0.27	,00:02:43	,07-Dec-2013
945,	1.9,	68.5,	80,	0.27	,00:03:43	,07-Dec-2013
946,	1.8,	68.5,	80,	0.28	,00:04:43	,07-Dec-2013
947,	1.7,	68.5,	80,	0.28	,00:05:43	,07-Dec-2013
948,	1.7,	68.5,	80,	0.28	,00:06:43	,07-Dec-2013
949,	1.9,	68.5,	80,	0.27	,00:07:43	,07-Dec-2013
950,	1.8,	68.5,	80,	0.27	,00:08:43	,07-Dec-2013
951,	1.7,	68.5,	80,	0.27	,00:09:43	,07-Dec-2013
952,	1.8,	68.5,	80,	0.27	,00:10:43	,07-Dec-2013
953,	2.0,	68.5,	80,	0.26	,00:11:43	,07-Dec-2013
954,	2.0,	68.5,	80,	0.26	,00:12:43	,07-Dec-2013
955,	1.9,	68.5,	80,	0.26	,00:13:43	,07-Dec-2013
956,	2.1,	68.5,	80,	0.26	,00:14:43	,07-Dec-2013
957,	1.9,	68.5,	80,	0.28	,00:15:43	,07-Dec-2013
958,	2.1,	68.5,	80,	0.28	,00:16:43	,07-Dec-2013
959,	2.3,	68.4,	80,	0.27	,00:17:43	,07-Dec-2013
960,	1.9,	68.4,	80,	0.27	,00:18:43	,07-Dec-2013
961,	1.9,	68.4,	80,	0.26	,00:19:43	,07-Dec-2013
962,	2.0,	68.4,	80,	0.27	,00:20:43	,07-Dec-2013
963,	1.7,	68.4,	80,	0.28	,00:21:43	,07-Dec-2013
964,	2.2,	68.4,	81,	0.26	,00:22:43	,07-Dec-2013
965,	2.2,	68.4,	80,	0.25	,00:23:43	,07-Dec-2013
966,	2.0,	68.4,	80,	0.26	,00:24:43	,07-Dec-2013
967,	2.2,	68.4,	81,	0.26	,00:25:43	,07-Dec-2013
968,	2.4,	68.4,	81,	0.26	,00:26:43	,07-Dec-2013
969,	2.2,	68.4,	81,	0.29	,00:27:43	,07-Dec-2013
970,	2.0,	68.4,	81,	0.28	,00:28:43	,07-Dec-2013
971,	2.1,	68.4,	81,	0.27	,00:29:43	,07-Dec-2013
972,	2.1,	68.4,	81,	0.27	,00:30:43	,07-Dec-2013
973,	2.0,	68.4,	81,	0.26	,00:31:43	,07-Dec-2013
974,	2.4,	68.4,	81,	0.24	,00:32:43	,07-Dec-2013
975,	2.1,	68.4,	81,	0.25	,00:33:43	,07-Dec-2013
976,	1.7,	68.4,	81,	0.27	,00:34:43	,07-Dec-2013
977,	1.7,	68.4,	81,	0.27	,00:35:43	,07-Dec-2013
978,	1.9,	68.4,	81,	0.26	,00:36:43	,07-Dec-2013
979,	1.9,	68.4,	81,	0.26	,00:37:43	,07-Dec-2013
980,	1.9,	68.4,	81,	0.26	,00:38:43	,07-Dec-2013
981,	1.7,	68.4,	81,	0.26	,00:39:43	,07-Dec-2013
982,	1.8,	68.4,	81,	0.26	,00:40:43	,07-Dec-2013
983,	1.8,	68.4,	81,	0.27	,00:41:43	,07-Dec-2013
984,	1.7,	68.4,	81,	0.27	,00:42:43	,07-Dec-2013
985,	1.7,	68.4,	81,	0.27	,00:43:43	,07-Dec-2013
986,	1.6,	68.4,	81,	0.27	,00:44:43	,07-Dec-2013
987,	1.5,	68.3,	81,	0.27	,00:45:43	,07-Dec-2013
988,	1.8,	68.4,	81,	0.28	,00:46:43	,07-Dec-2013
989,	1.6,	68.3,	81,	0.27	,00:47:43	,07-Dec-2013
990,	1.8,	68.3,	81,	0.27	,00:48:43	,07-Dec-2013
991,	1.8,	68.3,	81,	0.27	,00:49:43	,07-Dec-2013
992,	1.9,	68.3,	81,	0.27	,00:50:43	,07-Dec-2013
993,	2.0,	68.3,	81,	0.26	,00:51:43	,07-Dec-2013
994,	2.3,	68.3,	81,	0.26	,00:52:43	,07-Dec-2013
995,	1.9,	68.3,	81,	0.28	,00:53:43	,07-Dec-2013
996,	2.1,	68.3,	81,	0.27	,00:54:43	,07-Dec-2013
997,	1.9,	68.3,	81,	0.29	,00:55:43	,07-Dec-2013
998,	2.0,	68.3,	81,	0.28	,00:56:43	,07-Dec-2013
999,	1.9,	68.3,	81,	0.27	,00:57:43	,07-Dec-2013
1000,	2.3,	68.3,	81,	0.25	,00:58:43	,07-Dec-2013

1001,	2.1,	68.3,	81,	0.26	,00:59:43	,07-Dec-2013
1002,	2.0,	68.3,	81,	0.26	,01:00:43	,07-Dec-2013
1003,	2.0,	68.3,	81,	0.26	,01:01:43	,07-Dec-2013
1004,	1.8,	68.3,	81,	0.26	,01:02:43	,07-Dec-2013
1005,	1.8,	68.3,	81,	0.27	,01:03:43	,07-Dec-2013
1006,	1.5,	68.3,	81,	0.28	,01:04:43	,07-Dec-2013
1007,	1.8,	68.3,	81,	0.27	,01:05:43	,07-Dec-2013
1008,	1.7,	68.3,	81,	0.26	,01:06:43	,07-Dec-2013
1009,	1.7,	68.2,	81,	0.26	,01:07:43	,07-Dec-2013
1010,	1.6,	68.3,	81,	0.26	,01:08:43	,07-Dec-2013
1011,	1.9,	68.3,	81,	0.25	,01:09:43	,07-Dec-2013
1012,	2.1,	68.3,	81,	0.26	,01:10:43	,07-Dec-2013
1013,	1.9,	68.3,	81,	0.26	,01:11:43	,07-Dec-2013
1014,	1.8,	68.2,	81,	0.26	,01:12:43	,07-Dec-2013
1015,	1.8,	68.2,	81,	0.26	,01:13:43	,07-Dec-2013
1016,	1.9,	68.2,	81,	0.26	,01:14:43	,07-Dec-2013
1017,	1.7,	68.2,	81,	0.27	,01:15:43	,07-Dec-2013
1018,	1.6,	68.2,	81,	0.27	,01:16:43	,07-Dec-2013
1019,	1.8,	68.2,	81,	0.26	,01:17:43	,07-Dec-2013
1020,	1.8,	68.2,	81,	0.26	,01:18:43	,07-Dec-2013
1021,	1.7,	68.2,	81,	0.27	,01:19:43	,07-Dec-2013
1022,	1.7,	68.2,	81,	0.29	,01:20:43	,07-Dec-2013
1023,	1.6,	68.2,	81,	0.29	,01:21:43	,07-Dec-2013
1024,	1.5,	68.2,	81,	0.30	,01:22:43	,07-Dec-2013
1025,	1.7,	68.2,	81,	0.29	,01:23:43	,07-Dec-2013
1026,	1.6,	68.2,	81,	0.28	,01:24:43	,07-Dec-2013
1027,	1.7,	68.1,	81,	0.27	,01:25:43	,07-Dec-2013
1028,	1.7,	68.1,	81,	0.27	,01:26:43	,07-Dec-2013
1029,	1.9,	68.1,	81,	0.27	,01:27:43	,07-Dec-2013
1030,	1.6,	68.1,	81,	0.28	,01:28:43	,07-Dec-2013
1031,	1.7,	68.1,	81,	0.28	,01:29:43	,07-Dec-2013
1032,	1.6,	68.1,	81,	0.28	,01:30:43	,07-Dec-2013
1033,	1.6,	68.1,	81,	0.28	,01:31:43	,07-Dec-2013
1034,	2.0,	68.1,	81,	0.26	,01:32:43	,07-Dec-2013
1035,	1.5,	68.1,	81,	0.27	,01:33:43	,07-Dec-2013
1036,	1.7,	68.1,	81,	0.27	,01:34:43	,07-Dec-2013
1037,	1.7,	68.1,	81,	0.28	,01:35:43	,07-Dec-2013
1038,	1.6,	68.1,	81,	0.27	,01:36:43	,07-Dec-2013
1039,	1.9,	68.1,	81,	0.26	,01:37:43	,07-Dec-2013
1040,	1.8,	68.1,	81,	0.26	,01:38:43	,07-Dec-2013
1041,	1.9,	68.1,	81,	0.26	,01:39:43	,07-Dec-2013
1042,	1.8,	68.1,	81,	0.27	,01:40:43	,07-Dec-2013
1043,	1.7,	68.0,	81,	0.27	,01:41:43	,07-Dec-2013
1044,	1.8,	68.0,	81,	0.27	,01:42:43	,07-Dec-2013
1045,	1.5,	68.0,	81,	0.28	,01:43:43	,07-Dec-2013
1046,	1.8,	68.0,	81,	0.27	,01:44:43	,07-Dec-2013
1047,	2.0,	68.0,	82,	0.26	,01:45:43	,07-Dec-2013
1048,	2.0,	68.0,	81,	0.26	,01:46:43	,07-Dec-2013
1049,	2.2,	68.0,	81,	0.26	,01:47:43	,07-Dec-2013
1050,	2.0,	68.0,	82,	0.25	,01:48:43	,07-Dec-2013
1051,	2.0,	68.0,	81,	0.25	,01:49:43	,07-Dec-2013
1052,	2.1,	68.0,	81,	0.26	,01:50:43	,07-Dec-2013
1053,	2.1,	68.0,	81,	0.26	,01:51:43	,07-Dec-2013
1054,	2.0,	68.0,	81,	0.26	,01:52:43	,07-Dec-2013
1055,	1.9,	67.9,	81,	0.26	,01:53:43	,07-Dec-2013
1056,	2.0,	67.9,	82,	0.25	,01:54:43	,07-Dec-2013
1057,	2.1,	67.9,	81,	0.25	,01:55:43	,07-Dec-2013
1058,	1.9,	67.9,	82,	0.26	,01:56:43	,07-Dec-2013
1059,	1.9,	67.9,	82,	0.26	,01:57:43	,07-Dec-2013
1060,	1.9,	67.9,	82,	0.26	,01:58:43	,07-Dec-2013
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1062,	2.0,	67.9,	81,	0.25	,02:00:43	,07-Dec-2013
1063,	2.3,	67.9,	81,	0.25	,02:01:43	,07-Dec-2013
1064,	2.4,	67.9,	82,	0.25	,02:02:43	,07-Dec-2013

1065,	2.0,	67.9,	82,	0.26	,02:03:43	,07-Dec-2013
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1067,	1.9,	67.9,	82,	0.27	,02:05:43	,07-Dec-2013
1068,	1.9,	67.9,	82,	0.27	,02:06:43	,07-Dec-2013
1069,	2.0,	67.9,	82,	0.26	,02:07:43	,07-Dec-2013
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1071,	2.2,	67.9,	82,	0.26	,02:09:43	,07-Dec-2013
1072,	1.8,	67.9,	82,	0.27	,02:10:43	,07-Dec-2013
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1074,	1.9,	67.8,	82,	0.26	,02:12:43	,07-Dec-2013
1075,	1.8,	67.8,	82,	0.27	,02:13:43	,07-Dec-2013
1076,	2.0,	67.9,	82,	0.26	,02:14:43	,07-Dec-2013
1077,	1.9,	67.9,	82,	0.26	,02:15:43	,07-Dec-2013
1078,	1.8,	67.8,	82,	0.26	,02:16:43	,07-Dec-2013
1079,	2.1,	67.8,	82,	0.26	,02:17:43	,07-Dec-2013
1080,	2.0,	67.8,	82,	0.25	,02:18:43	,07-Dec-2013
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1082,	1.9,	67.8,	82,	0.25	,02:20:43	,07-Dec-2013
1083,	1.8,	67.8,	82,	0.26	,02:21:43	,07-Dec-2013
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1087,	2.0,	67.8,	82,	0.26	,02:25:43	,07-Dec-2013
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1094,	1.8,	67.8,	82,	0.25	,02:32:43	,07-Dec-2013
1095,	2.1,	67.8,	82,	0.24	,02:33:43	,07-Dec-2013
1096,	1.9,	67.8,	82,	0.24	,02:34:43	,07-Dec-2013
1097,	1.8,	67.8,	82,	0.25	,02:35:43	,07-Dec-2013
1098,	1.9,	67.8,	82,	0.25	,02:36:43	,07-Dec-2013
1099,	2.0,	67.8,	82,	0.24	,02:37:43	,07-Dec-2013
1100,	1.8,	67.7,	82,	0.26	,02:38:43	,07-Dec-2013
1101,	2.0,	67.8,	82,	0.26	,02:39:43	,07-Dec-2013
1102,	1.9,	67.8,	82,	0.25	,02:40:43	,07-Dec-2013
1103,	1.9,	67.7,	82,	0.26	,02:41:43	,07-Dec-2013
1104,	1.8,	67.7,	82,	0.25	,02:42:43	,07-Dec-2013
1105,	2.0,	67.7,	82,	0.25	,02:43:43	,07-Dec-2013
1106,	1.8,	67.7,	82,	0.25	,02:44:43	,07-Dec-2013
1107,	1.7,	67.7,	82,	0.26	,02:45:43	,07-Dec-2013
1108,	1.8,	67.7,	82,	0.27	,02:46:43	,07-Dec-2013
1109,	1.9,	67.7,	82,	0.27	,02:47:43	,07-Dec-2013
1110,	1.9,	67.7,	82,	0.26	,02:48:43	,07-Dec-2013
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1113,	2.0,	67.7,	82,	0.26	,02:51:43	,07-Dec-2013
1114,	2.3,	67.7,	82,	0.25	,02:52:43	,07-Dec-2013
1115,	2.3,	67.6,	82,	0.24	,02:53:43	,07-Dec-2013
1116,	2.2,	67.6,	82,	0.24	,02:54:43	,07-Dec-2013
1117,	2.1,	67.6,	82,	0.24	,02:55:43	,07-Dec-2013
1118,	2.2,	67.6,	82,	0.24	,02:56:43	,07-Dec-2013
1119,	2.2,	67.6,	82,	0.24	,02:57:43	,07-Dec-2013
1120,	2.0,	67.6,	82,	0.26	,02:58:43	,07-Dec-2013
1121,	2.2,	67.6,	82,	0.26	,02:59:43	,07-Dec-2013
1122,	2.1,	67.6,	82,	0.25	,03:00:43	,07-Dec-2013
1123,	2.2,	67.6,	82,	0.25	,03:01:43	,07-Dec-2013
1124,	2.0,	67.6,	82,	0.25	,03:02:43	,07-Dec-2013
1125,	2.1,	67.6,	82,	0.25	,03:03:43	,07-Dec-2013
1126,	2.4,	67.6,	82,	0.24	,03:04:43	,07-Dec-2013
1127,	2.2,	67.6,	82,	0.25	,03:05:43	,07-Dec-2013
1128,	1.9,	67.6,	82,	0.26	,03:06:43	,07-Dec-2013

1129,	2.0,	67.6,	82,	0.25	,03:07:43	,07-Dec-2013
1130,	2.2,	67.6,	82,	0.24	,03:08:43	,07-Dec-2013
1131,	2.1,	67.6,	82,	0.24	,03:09:43	,07-Dec-2013
1132,	1.8,	67.6,	82,	0.26	,03:10:43	,07-Dec-2013
1133,	2.1,	67.6,	82,	0.25	,03:11:43	,07-Dec-2013
1134,	1.9,	67.6,	82,	0.26	,03:12:43	,07-Dec-2013
1135,	1.9,	67.6,	82,	0.25	,03:13:43	,07-Dec-2013
1136,	2.0,	67.6,	82,	0.25	,03:14:43	,07-Dec-2013
1137,	2.1,	67.5,	82,	0.25	,03:15:43	,07-Dec-2013
1138,	1.9,	67.5,	82,	0.26	,03:16:43	,07-Dec-2013
1139,	1.9,	67.5,	82,	0.26	,03:17:43	,07-Dec-2013
1140,	2.1,	67.5,	82,	0.25	,03:18:43	,07-Dec-2013
1141,	2.0,	67.5,	82,	0.25	,03:19:43	,07-Dec-2013
1142,	1.8,	67.5,	82,	0.26	,03:20:43	,07-Dec-2013
1143,	1.8,	67.5,	82,	0.26	,03:21:43	,07-Dec-2013
1144,	1.9,	67.5,	82,	0.26	,03:22:43	,07-Dec-2013
1145,	1.7,	67.4,	82,	0.27	,03:23:43	,07-Dec-2013
1146,	1.7,	67.4,	82,	0.27	,03:24:43	,07-Dec-2013
1147,	1.9,	67.4,	82,	0.26	,03:25:43	,07-Dec-2013
1148,	1.7,	67.4,	82,	0.27	,03:26:43	,07-Dec-2013
1149,	1.8,	67.4,	82,	0.27	,03:27:43	,07-Dec-2013
1150,	2.0,	67.4,	82,	0.27	,03:28:43	,07-Dec-2013
1151,	2.1,	67.4,	82,	0.26	,03:29:43	,07-Dec-2013
1152,	1.9,	67.4,	82,	0.26	,03:30:43	,07-Dec-2013
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1158,	1.8,	67.3,	82,	0.26	,03:36:43	,07-Dec-2013
1159,	1.8,	67.3,	82,	0.26	,03:37:43	,07-Dec-2013
1160,	1.8,	67.3,	82,	0.27	,03:38:43	,07-Dec-2013
1161,	1.8,	67.3,	82,	0.28	,03:39:43	,07-Dec-2013
1162,	1.7,	67.3,	82,	0.28	,03:40:43	,07-Dec-2013
1163,	1.8,	67.2,	82,	0.27	,03:41:43	,07-Dec-2013
1164,	2.2,	67.3,	82,	0.25	,03:42:43	,07-Dec-2013
1165,	2.1,	67.3,	82,	0.24	,03:43:43	,07-Dec-2013
1166,	1.9,	67.2,	82,	0.25	,03:44:43	,07-Dec-2013
1167,	1.9,	67.2,	82,	0.25	,03:45:43	,07-Dec-2013
1168,	2.0,	67.2,	82,	0.25	,03:46:43	,07-Dec-2013
1169,	2.2,	67.2,	82,	0.24	,03:47:43	,07-Dec-2013
1170,	2.0,	67.2,	82,	0.25	,03:48:43	,07-Dec-2013
1171,	2.0,	67.2,	82,	0.25	,03:49:43	,07-Dec-2013
1172,	2.2,	67.2,	82,	0.24	,03:50:43	,07-Dec-2013
1173,	1.8,	67.2,	82,	0.26	,03:51:43	,07-Dec-2013
1174,	2.0,	67.2,	82,	0.25	,03:52:43	,07-Dec-2013
1175,	2.2,	67.2,	82,	0.24	,03:53:43	,07-Dec-2013
1176,	2.2,	67.2,	82,	0.23	,03:54:43	,07-Dec-2013
1177,	2.4,	67.2,	82,	0.23	,03:55:43	,07-Dec-2013
1178,	2.0,	67.2,	83,	0.25	,03:56:43	,07-Dec-2013
1179,	2.2,	67.2,	82,	0.25	,03:57:43	,07-Dec-2013
1180,	2.2,	67.2,	82,	0.24	,03:58:43	,07-Dec-2013
1181,	2.3,	67.2,	83,	0.23	,03:59:43	,07-Dec-2013
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1183,	2.8,	67.2,	83,	0.22	,04:01:43	,07-Dec-2013
1184,	3.0,	67.2,	83,	0.22	,04:02:43	,07-Dec-2013
1185,	2.8,	67.2,	83,	0.22	,04:03:43	,07-Dec-2013
1186,	3.0,	67.2,	83,	0.22	,04:04:43	,07-Dec-2013
1187,	3.3,	67.2,	83,	0.22	,04:05:43	,07-Dec-2013
1188,	2.9,	67.2,	83,	0.22	,04:06:43	,07-Dec-2013
1189,	2.9,	67.2,	83,	0.23	,04:07:43	,07-Dec-2013
1190,	3.4,	67.2,	83,	0.20	,04:08:43	,07-Dec-2013
1191,	3.0,	67.2,	83,	0.22	,04:09:43	,07-Dec-2013
1192,	3.0,	67.2,	83,	0.23	,04:10:43	,07-Dec-2013

1193,	3.1,	67.2,	83,	0.22	,04:11:43	,07-Dec-2013
1194,	2.8,	67.2,	83,	0.23	,04:12:43	,07-Dec-2013
1195,	2.8,	67.2,	83,	0.23	,04:13:43	,07-Dec-2013
1196,	2.7,	67.2,	83,	0.22	,04:14:43	,07-Dec-2013
1197,	2.9,	67.2,	83,	0.21	,04:15:43	,07-Dec-2013
1198,	2.7,	67.2,	83,	0.21	,04:16:43	,07-Dec-2013
1199,	2.6,	67.2,	83,	0.22	,04:17:43	,07-Dec-2013
1200,	2.9,	67.2,	83,	0.22	,04:18:43	,07-Dec-2013
1201,	2.6,	67.2,	83,	0.22	,04:19:43	,07-Dec-2013
1202,	2.7,	67.2,	83,	0.23	,04:20:43	,07-Dec-2013
1203,	2.5,	67.2,	83,	0.24	,04:21:43	,07-Dec-2013
1204,	2.4,	67.2,	83,	0.23	,04:22:43	,07-Dec-2013
1205,	2.3,	67.2,	83,	0.23	,04:23:43	,07-Dec-2013
1206,	2.4,	67.1,	83,	0.23	,04:24:43	,07-Dec-2013
1207,	2.5,	67.2,	83,	0.23	,04:25:43	,07-Dec-2013
1208,	2.6,	67.2,	83,	0.22	,04:26:43	,07-Dec-2013
1209,	2.5,	67.2,	83,	0.22	,04:27:43	,07-Dec-2013
1210,	2.8,	67.1,	83,	0.21	,04:28:43	,07-Dec-2013
1211,	2.4,	67.1,	83,	0.23	,04:29:43	,07-Dec-2013
1212,	2.6,	67.1,	83,	0.23	,04:30:43	,07-Dec-2013
1213,	2.7,	67.1,	83,	0.23	,04:31:43	,07-Dec-2013
1214,	2.4,	67.1,	83,	0.23	,04:32:43	,07-Dec-2013
1215,	2.4,	67.1,	83,	0.23	,04:33:43	,07-Dec-2013
1216,	2.5,	67.1,	83,	0.22	,04:34:43	,07-Dec-2013
1217,	2.6,	67.1,	83,	0.23	,04:35:43	,07-Dec-2013
1218,	2.6,	67.1,	83,	0.23	,04:36:43	,07-Dec-2013
1219,	2.4,	67.1,	83,	0.23	,04:37:43	,07-Dec-2013
1220,	2.4,	67.1,	83,	0.23	,04:38:43	,07-Dec-2013
1221,	2.3,	67.1,	83,	0.24	,04:39:43	,07-Dec-2013
1222,	2.4,	67.1,	83,	0.23	,04:40:43	,07-Dec-2013
1223,	2.5,	67.1,	83,	0.22	,04:41:43	,07-Dec-2013
1224,	2.5,	67.1,	83,	0.23	,04:42:43	,07-Dec-2013
1225,	2.4,	67.1,	83,	0.23	,04:43:43	,07-Dec-2013
1226,	2.3,	67.1,	83,	0.23	,04:44:43	,07-Dec-2013
1227,	2.4,	67.1,	83,	0.22	,04:45:43	,07-Dec-2013
1228,	2.4,	67.1,	83,	0.23	,04:46:43	,07-Dec-2013
1229,	2.2,	67.1,	83,	0.23	,04:47:43	,07-Dec-2013
1230,	2.4,	67.1,	83,	0.23	,04:48:43	,07-Dec-2013
1231,	2.1,	67.1,	83,	0.24	,04:49:43	,07-Dec-2013
1232,	2.2,	67.1,	83,	0.24	,04:50:43	,07-Dec-2013
1233,	2.4,	67.1,	83,	0.23	,04:51:43	,07-Dec-2013
1234,	2.1,	67.1,	83,	0.24	,04:52:43	,07-Dec-2013
1235,	2.3,	67.1,	83,	0.24	,04:53:43	,07-Dec-2013
1236,	2.4,	67.1,	83,	0.23	,04:54:43	,07-Dec-2013
1237,	2.3,	67.1,	83,	0.24	,04:55:43	,07-Dec-2013
1238,	2.4,	67.0,	83,	0.24	,04:56:43	,07-Dec-2013
1239,	2.3,	67.0,	83,	0.23	,04:57:43	,07-Dec-2013
1240,	2.6,	67.0,	83,	0.22	,04:58:43	,07-Dec-2013
1241,	2.5,	67.0,	83,	0.23	,04:59:43	,07-Dec-2013
1242,	2.6,	67.0,	83,	0.22	,05:00:43	,07-Dec-2013
1243,	2.7,	67.0,	83,	0.22	,05:01:43	,07-Dec-2013
1244,	2.6,	67.0,	83,	0.22	,05:02:43	,07-Dec-2013
1245,	2.3,	67.0,	83,	0.23	,05:03:43	,07-Dec-2013
1246,	2.4,	67.0,	83,	0.23	,05:04:43	,07-Dec-2013
1247,	2.2,	67.0,	83,	0.24	,05:05:43	,07-Dec-2013
1248,	2.5,	67.0,	83,	0.22	,05:06:43	,07-Dec-2013
1249,	2.3,	67.0,	83,	0.23	,05:07:43	,07-Dec-2013
1250,	2.7,	67.0,	83,	0.23	,05:08:43	,07-Dec-2013
1251,	2.4,	67.0,	83,	0.23	,05:09:43	,07-Dec-2013
1252,	2.9,	67.0,	83,	0.22	,05:10:43	,07-Dec-2013
1253,	2.1,	67.0,	83,	0.24	,05:11:43	,07-Dec-2013
1254,	2.6,	67.0,	83,	0.23	,05:12:43	,07-Dec-2013
1255,	2.3,	67.0,	83,	0.23	,05:13:43	,07-Dec-2013
1256,	2.3,	67.0,	83,	0.23	,05:14:43	,07-Dec-2013

1257,	2.6,	66.9,	83,	0.22	,05:15:43	,07-Dec-2013
1258,	2.4,	66.9,	83,	0.23	,05:16:43	,07-Dec-2013
1259,	2.2,	66.9,	83,	0.24	,05:17:43	,07-Dec-2013
1260,	2.3,	66.9,	83,	0.24	,05:18:43	,07-Dec-2013
1261,	2.0,	66.9,	83,	0.25	,05:19:43	,07-Dec-2013
1262,	2.2,	66.9,	83,	0.24	,05:20:43	,07-Dec-2013
1263,	2.2,	66.9,	83,	0.24	,05:21:43	,07-Dec-2013
1264,	2.2,	66.8,	83,	0.24	,05:22:43	,07-Dec-2013
1265,	1.9,	66.8,	83,	0.25	,05:23:43	,07-Dec-2013
1266,	2.0,	66.8,	83,	0.25	,05:24:43	,07-Dec-2013
1267,	2.1,	66.7,	83,	0.24	,05:25:43	,07-Dec-2013
1268,	2.2,	66.7,	83,	0.26	,05:26:43	,07-Dec-2013
1269,	2.0,	66.7,	83,	0.25	,05:27:43	,07-Dec-2013
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1273,	1.8,	66.7,	83,	0.27	,05:31:43	,07-Dec-2013
1274,	1.8,	66.7,	83,	0.26	,05:32:43	,07-Dec-2013
1275,	2.0,	66.6,	83,	0.25	,05:33:43	,07-Dec-2013
1276,	2.0,	66.6,	83,	0.24	,05:34:43	,07-Dec-2013
1277,	2.0,	66.6,	83,	0.24	,05:35:43	,07-Dec-2013
1278,	1.9,	66.6,	83,	0.25	,05:36:43	,07-Dec-2013
1279,	2.0,	66.6,	83,	0.24	,05:37:43	,07-Dec-2013
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1281,	2.0,	66.6,	83,	0.24	,05:39:43	,07-Dec-2013
1282,	1.8,	66.6,	83,	0.24	,05:40:43	,07-Dec-2013
1283,	2.2,	66.6,	83,	0.24	,05:41:43	,07-Dec-2013
1284,	2.3,	66.5,	83,	0.24	,05:42:43	,07-Dec-2013
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1288,	1.9,	66.5,	83,	0.26	,05:46:43	,07-Dec-2013
1289,	1.9,	66.5,	83,	0.26	,05:47:43	,07-Dec-2013
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1303,	2.7,	66.3,	83,	0.22	,06:01:43	,07-Dec-2013
1304,	2.6,	66.4,	83,	0.22	,06:02:43	,07-Dec-2013
1305,	2.9,	66.3,	83,	0.21	,06:03:43	,07-Dec-2013
1306,	2.6,	66.3,	83,	0.22	,06:04:43	,07-Dec-2013
1307,	2.5,	66.3,	83,	0.22	,06:05:43	,07-Dec-2013
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1313,	2.8,	66.3,	83,	0.22	,06:11:43	,07-Dec-2013
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1318,	2.9,	66.3,	83,	0.21	,06:16:43	,07-Dec-2013
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1322,	3.8,	66.3,	83,	0.20	,06:20:43	,07-Dec-2013
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1324,	2.8,	66.3,	84,	0.21	,06:22:43	,07-Dec-2013
1325,	3.6,	66.3,	83,	0.20	,06:23:43	,07-Dec-2013
1326,	3.8,	66.3,	84,	0.19	,06:24:43	,07-Dec-2013
1327,	3.7,	66.3,	84,	0.19	,06:25:43	,07-Dec-2013
1328,	3.5,	66.3,	84,	0.20	,06:26:43	,07-Dec-2013
1329,	3.3,	66.3,	84,	0.20	,06:27:43	,07-Dec-2013
1330,	3.0,	66.3,	84,	0.20	,06:28:43	,07-Dec-2013
1331,	3.2,	66.3,	84,	0.20	,06:29:43	,07-Dec-2013
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1333,	3.8,	66.3,	84,	0.19	,06:31:43	,07-Dec-2013
1334,	3.9,	66.3,	84,	0.19	,06:32:43	,07-Dec-2013
1335,	3.9,	66.3,	84,	0.19	,06:33:43	,07-Dec-2013
1336,	4.2,	66.3,	84,	0.19	,06:34:43	,07-Dec-2013
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1341,	4.3,	66.4,	84,	0.18	,06:39:43	,07-Dec-2013
1342,	4.2,	66.4,	84,	0.18	,06:40:43	,07-Dec-2013
1343,	3.8,	66.4,	84,	0.19	,06:41:43	,07-Dec-2013
1344,	4.2,	66.4,	84,	0.18	,06:42:43	,07-Dec-2013
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1347,	4.1,	66.4,	84,	0.18	,06:45:43	,07-Dec-2013
1348,	4.1,	66.4,	84,	0.18	,06:46:43	,07-Dec-2013
1349,	4.2,	66.5,	84,	0.18	,06:47:43	,07-Dec-2013
1350,	4.0,	66.5,	84,	0.18	,06:48:43	,07-Dec-2013
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1355,	4.2,	66.5,	84,	0.17	,06:53:43	,07-Dec-2013
1356,	4.0,	66.5,	84,	0.18	,06:54:43	,07-Dec-2013
1357,	4.4,	66.5,	84,	0.17	,06:55:43	,07-Dec-2013
1358,	4.2,	66.5,	84,	0.18	,06:56:43	,07-Dec-2013
1359,	5.0,	66.5,	84,	0.16	,06:57:43	,07-Dec-2013
1360,	4.6,	66.5,	84,	0.17	,06:58:43	,07-Dec-2013
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1363,	4.8,	66.6,	84,	0.17	,07:01:43	,07-Dec-2013
1364,	4.7,	66.6,	84,	0.17	,07:02:43	,07-Dec-2013
1365,	4.7,	66.6,	84,	0.17	,07:03:43	,07-Dec-2013
1366,	4.9,	66.7,	84,	0.17	,07:04:43	,07-Dec-2013
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1368,	4.9,	66.7,	84,	0.16	,07:06:43	,07-Dec-2013
1369,	4.6,	66.7,	84,	0.17	,07:07:43	,07-Dec-2013
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1373,	3.7,	66.8,	85,	0.18	,07:11:43	,07-Dec-2013
1374,	3.8,	66.8,	85,	0.18	,07:12:43	,07-Dec-2013
1375,	3.8,	66.8,	85,	0.18	,07:13:43	,07-Dec-2013
1376,	3.3,	66.9,	85,	0.18	,07:14:43	,07-Dec-2013
1377,	3.5,	66.9,	85,	0.18	,07:15:43	,07-Dec-2013
1378,	4.3,	66.9,	85,	0.17	,07:16:43	,07-Dec-2013
1379,	3.6,	67.0,	85,	0.17	,07:17:43	,07-Dec-2013
1380,	3.3,	67.0,	85,	0.18	,07:18:43	,07-Dec-2013
1381,	3.0,	67.1,	85,	0.18	,07:19:43	,07-Dec-2013
1382,	2.8,	67.1,	85,	0.18	,07:20:43	,07-Dec-2013
1383,	3.2,	67.2,	85,	0.17	,07:21:43	,07-Dec-2013
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1385,	3.2,	67.4,	86,	0.18	,07:23:43	,07-Dec-2013
1386,	2.3,	67.4,	86,	0.19	,07:24:43	,07-Dec-2013
1387,	2.2,	67.5,	86,	0.19	,07:25:43	,07-Dec-2013
1388,	2.2,	67.6,	86,	0.19	,07:26:43	,07-Dec-2013
1389,	2.3,	67.7,	86,	0.19	,07:27:43	,07-Dec-2013
1390,	2.9,	67.9,	86,	0.18	,07:28:43	,07-Dec-2013
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1392,	2.1,	68.1,	86,	0.19	,07:30:43	,07-Dec-2013
1393,	2.0,	68.2,	86,	0.19	,07:31:43	,07-Dec-2013
1394,	2.3,	68.3,	86,	0.19	,07:32:43	,07-Dec-2013
1395,	2.0,	68.4,	86,	0.20	,07:33:43	,07-Dec-2013
1396,	2.1,	68.5,	86,	0.19	,07:34:43	,07-Dec-2013
1397,	3.3,	68.7,	86,	0.19	,07:35:43	,07-Dec-2013
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1414,	0.8,	70.9,	84,	0.27	,07:52:43	,07-Dec-2013
1415,	0.8,	71.0,	84,	0.27	,07:53:43	,07-Dec-2013
1416,	1.1,	71.1,	83,	0.25	,07:54:43	,07-Dec-2013
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1418,	0.9,	71.5,	83,	0.26	,07:56:43	,07-Dec-2013
1419,	0.9,	71.6,	83,	0.26	,07:57:43	,07-Dec-2013
1420,	0.9,	71.8,	83,	0.26	,07:58:43	,07-Dec-2013
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1437,	1.2,	74.5,	81,	0.30	,08:15:43	,07-Dec-2013
1438,	1.2,	74.6,	81,	0.30	,08:16:43	,07-Dec-2013
1439,	1.1,	74.8,	81,	0.30	,08:17:43	,07-Dec-2013
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1441,	0.8,	75.2,	80,	0.31	,08:19:43	,07-Dec-2013
1442,	0.9,	75.3,	80,	0.31	,08:20:43	,07-Dec-2013
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1444,	1.2,	75.7,	80,	0.33	,08:22:43	,07-Dec-2013
1445,	1.2,	75.9,	80,	0.32	,08:23:43	,07-Dec-2013
1446,	1.2,	76.1,	80,	0.35	,08:24:43	,07-Dec-2013
1447,	1.2,	76.3,	79,	0.35	,08:25:43	,07-Dec-2013
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1458,	1.0,	78.6,	77,	0.38	,08:36:43	,07-Dec-2013
1459,	1.0,	78.8,	77,	0.41	,08:37:43	,07-Dec-2013
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1467,	1.1,	80.5,	76,	0.34	,08:45:43	,07-Dec-2013
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1476,	0.9,	82.4,	73,	0.34	,08:54:43	,07-Dec-2013
1477,	0.9,	82.6,	72,	0.36	,08:55:43	,07-Dec-2013
1478,	1.0,	82.7,	72,	0.38	,08:56:43	,07-Dec-2013
1479,	0.7,	82.9,	72,	0.36	,08:57:43	,07-Dec-2013
1480,	0.8,	83.2,	71,	0.35	,08:58:43	,07-Dec-2013
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1482,	0.6,	83.5,	71,	0.34	,09:00:43	,07-Dec-2013
1483,	0.8,	83.7,	70,	0.35	,09:01:43	,07-Dec-2013
1484,	0.9,	83.9,	70,	0.35	,09:02:43	,07-Dec-2013
1485,	0.5,	84.2,	70,	0.34	,09:03:43	,07-Dec-2013
1486,	0.5,	84.4,	70,	0.34	,09:04:43	,07-Dec-2013
1487,	0.8,	84.6,	69,	0.35	,09:05:43	,07-Dec-2013
1488,	0.7,	84.7,	69,	0.34	,09:06:43	,07-Dec-2013
1489,	0.7,	84.9,	69,	0.35	,09:07:43	,07-Dec-2013
1490,	1.0,	85.1,	69,	0.39	,09:08:43	,07-Dec-2013
1491,	0.9,	85.3,	68,	0.44	,09:09:43	,07-Dec-2013
1492,	0.8,	85.4,	68,	0.42	,09:10:43	,07-Dec-2013
1493,	0.6,	85.6,	68,	0.38	,09:11:43	,07-Dec-2013
1494,	0.6,	85.8,	68,	0.38	,09:12:43	,07-Dec-2013
1495,	0.8,	86.0,	67,	0.40	,09:13:43	,07-Dec-2013
1496,	0.5,	86.2,	67,	0.38	,09:14:43	,07-Dec-2013
1497,	0.8,	86.3,	67,	0.40	,09:15:43	,07-Dec-2013
1498,	0.8,	86.5,	66,	0.39	,09:16:43	,07-Dec-2013
1499,	0.8,	86.6,	66,	0.38	,09:17:43	,07-Dec-2013
1500,	0.7,	86.7,	66,	0.37	,09:18:43	,07-Dec-2013
1501,	0.8,	86.9,	65,	0.38	,09:19:43	,07-Dec-2013
1502,	0.7,	87.0,	65,	0.37	,09:20:43	,07-Dec-2013
1503,	0.7,	87.1,	65,	0.37	,09:21:43	,07-Dec-2013
1504,	0.8,	87.2,	65,	0.38	,09:22:43	,07-Dec-2013
1505,	0.7,	87.4,	65,	0.37	,09:23:43	,07-Dec-2013
1506,	1.0,	87.6,	65,	0.40	,09:24:43	,07-Dec-2013
1507,	1.0,	87.7,	65,	0.40	,09:25:43	,07-Dec-2013
1508,	0.8,	87.9,	64,	0.37	,09:26:43	,07-Dec-2013
1509,	0.8,	88.0,	64,	0.35	,09:27:43	,07-Dec-2013
1510,	0.8,	88.1,	64,	0.35	,09:28:43	,07-Dec-2013
1511,	0.7,	88.3,	64,	0.35	,09:29:43	,07-Dec-2013
1512,	0.5,	88.5,	64,	0.34	,09:30:43	,07-Dec-2013

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1513,	0.6,	88.7,	63,	0.35	,09:31:43	,07-Dec-2013
1514,	0.8,	88.8,	63,	0.35	,09:32:43	,07-Dec-2013
1515,	1.0,	88.9,	63,	0.35	,09:33:43	,07-Dec-2013
1516,	0.8,	89.0,	63,	0.35	,09:34:43	,07-Dec-2013
1517,	0.9,	89.1,	63,	0.35	,09:35:43	,07-Dec-2013
1518,	0.8,	89.2,	62,	0.35	,09:36:43	,07-Dec-2013
1519,	1.0,	89.2,	62,	0.35	,09:37:43	,07-Dec-2013
1520,	0.8,	89.3,	62,	0.35	,09:38:43	,07-Dec-2013
1521,	0.7,	89.5,	62,	0.35	,09:39:43	,07-Dec-2013
1522,	0.8,	89.5,	62,	0.37	,09:40:43	,07-Dec-2013
1523,	0.9,	89.6,	62,	0.37	,09:41:43	,07-Dec-2013
1524,	0.6,	89.7,	61,	0.36	,09:42:43	,07-Dec-2013
1525,	0.8,	89.8,	61,	0.39	,09:43:43	,07-Dec-2013
1526,	0.8,	89.9,	61,	0.39	,09:44:43	,07-Dec-2013
1527,	0.7,	90.1,	61,	0.38	,09:45:43	,07-Dec-2013
1528,	0.8,	90.1,	61,	0.39	,09:46:43	,07-Dec-2013
1529,	0.8,	90.3,	61,	0.39	,09:47:43	,07-Dec-2013
1530,	0.8,	90.4,	61,	0.40	,09:48:43	,07-Dec-2013
1531,	0.8,	90.5,	61,	0.39	,09:49:43	,07-Dec-2013
1532,	0.6,	90.6,	61,	0.37	,09:50:43	,07-Dec-2013
1533,	0.7,	90.7,	60,	0.38	,09:51:43	,07-Dec-2013
1534,	1.0,	90.8,	60,	0.41	,09:52:43	,07-Dec-2013
1535,	0.8,	90.8,	60,	0.45	,09:53:43	,07-Dec-2013
1536,	0.6,	90.9,	60,	0.42	,09:54:43	,07-Dec-2013
1537,	0.7,	91.0,	60,	0.45	,09:55:43	,07-Dec-2013
1538,	0.7,	91.1,	60,	0.42	,09:56:43	,07-Dec-2013
1539,	0.2,	91.2,	59,	0.35	,09:57:43	,07-Dec-2013
1540,	0.2,	91.3,	59,	0.36	,09:58:43	,07-Dec-2013
1541,	0.5,	91.4,	59,	0.39	,09:59:43	,07-Dec-2013
1542,	0.9,	91.5,	59,	0.45	,10:00:43	,07-Dec-2013
1543,	0.6,	91.5,	59,	0.43	,10:01:43	,07-Dec-2013
1544,	0.4,	91.7,	59,	0.41	,10:02:43	,07-Dec-2013
1545,	0.2,	91.8,	58,	0.36	,10:03:43	,07-Dec-2013
1546,	0.5,	91.9,	58,	0.41	,10:04:43	,07-Dec-2013
1547,	0.3,	92.1,	58,	0.38	,10:05:43	,07-Dec-2013
1548,	0.4,	92.2,	58,	0.40	,10:06:43	,07-Dec-2013
1549,	0.4,	92.3,	58,	0.39	,10:07:43	,07-Dec-2013
1550,	0.3,	92.4,	58,	0.38	,10:08:43	,07-Dec-2013
1551,	0.3,	92.5,	57,	0.39	,10:09:43	,07-Dec-2013
1552,	0.1,	92.6,	57,	0.35	,10:10:43	,07-Dec-2013
1553,	0.3,	92.7,	57,	0.38	,10:11:43	,07-Dec-2013
1554,	0.4,	92.8,	57,	0.40	,10:12:43	,07-Dec-2013
1555,	0.5,	92.8,	57,	0.40	,10:13:43	,07-Dec-2013
1556,	0.1,	92.9,	57,	0.35	,10:14:43	,07-Dec-2013
1557,	0.2,	93.1,	57,	0.35	,10:15:43	,07-Dec-2013
1558,	0.0,	93.2,	57,	0.33	,10:16:43	,07-Dec-2013
1559,	0.3,	93.3,	57,	0.37	,10:17:43	,07-Dec-2013
1560,	0.3,	93.4,	57,	0.38	,10:18:43	,07-Dec-2013
1561,	0.3,	93.4,	56,	0.37	,10:19:43	,07-Dec-2013
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1564,	0.1,	93.7,	56,	0.35	,10:22:43	,07-Dec-2013
1565,	0.0,	93.8,	55,	0.33	,10:23:43	,07-Dec-2013
1566,	0.3,	93.9,	56,	0.37	,10:24:43	,07-Dec-2013
1567,	0.2,	94.0,	55,	0.35	,10:25:43	,07-Dec-2013
1568,	0.1,	94.1,	55,	0.35	,10:26:43	,07-Dec-2013
1569,	0.2,	94.2,	55,	0.35	,10:27:43	,07-Dec-2013
1570,	0.3,	94.3,	55,	0.37	,10:28:43	,07-Dec-2013
1571,	0.0,	94.4,	54,	0.34	,10:29:43	,07-Dec-2013
1572,	0.3,	94.5,	54,	0.35	,10:30:43	,07-Dec-2013
1573,	0.2,	94.6,	54,	0.35	,10:31:43	,07-Dec-2013
1574,	0.2,	94.7,	54,	0.35	,10:32:43	,07-Dec-2013
1575,	0.1,	94.7,	54,	0.34	,10:33:43	,07-Dec-2013
1576,	0.1,	94.9,	54,	0.34	,10:34:43	,07-Dec-2013

1577,	0.2,	95.0,	54,	0.34	,10:35:43	,07-Dec-2013
1578,	0.2,	95.0,	54,	0.34	,10:36:43	,07-Dec-2013
1579,	0.1,	95.1,	53,	0.34	,10:37:43	,07-Dec-2013
1580,	0.3,	95.2,	53,	0.36	,10:38:43	,07-Dec-2013
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1582,	0.1,	95.4,	53,	0.34	,10:40:43	,07-Dec-2013
1583,	0.1,	95.5,	53,	0.34	,10:41:43	,07-Dec-2013
1584,	0.2,	95.7,	53,	0.35	,10:42:43	,07-Dec-2013
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1586,	0.0,	95.9,	53,	0.33	,10:44:43	,07-Dec-2013
1587,	0.2,	95.9,	53,	0.35	,10:45:43	,07-Dec-2013
1588,	0.3,	96.1,	53,	0.36	,10:46:43	,07-Dec-2013
1589,	0.4,	96.2,	52,	0.36	,10:47:43	,07-Dec-2013
1590,	0.4,	96.3,	52,	0.36	,10:48:43	,07-Dec-2013
1591,	0.5,	96.3,	52,	0.37	,10:49:43	,07-Dec-2013
1592,	0.3,	96.4,	52,	0.35	,10:50:43	,07-Dec-2013
1593,	0.1,	96.5,	52,	0.34	,10:51:43	,07-Dec-2013
1594,	0.3,	96.7,	52,	0.35	,10:52:43	,07-Dec-2013
1595,	0.1,	96.8,	51,	0.34	,10:53:43	,07-Dec-2013
1596,	0.9,	96.9,	51,	0.41	,10:54:43	,07-Dec-2013
1597,	0.0,	96.9,	51,	0.34	,10:55:43	,07-Dec-2013
1598,	0.3,	97.1,	51,	0.36	,10:56:43	,07-Dec-2013
1599,	0.3,	97.1,	51,	0.36	,10:57:43	,07-Dec-2013
1600,	0.4,	97.2,	51,	0.37	,10:58:43	,07-Dec-2013
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1602,	0.1,	97.4,	50,	0.35	,11:00:43	,07-Dec-2013
1603,	0.3,	97.6,	50,	0.35	,11:01:43	,07-Dec-2013
1604,	0.3,	97.6,	50,	0.35	,11:02:43	,07-Dec-2013
1605,	0.6,	97.7,	50,	0.38	,11:03:43	,07-Dec-2013
1606,	0.4,	97.8,	50,	0.36	,11:04:43	,07-Dec-2013
1607,	0.2,	97.9,	50,	0.34	,11:05:43	,07-Dec-2013
1608,	0.3,	98.0,	50,	0.35	,11:06:43	,07-Dec-2013
1609,	0.4,	98.1,	49,	0.36	,11:07:43	,07-Dec-2013
1610,	0.2,	98.1,	49,	0.34	,11:08:43	,07-Dec-2013
1611,	0.8,	98.1,	49,	0.48	,11:09:43	,07-Dec-2013
1612,	0.1,	98.1,	49,	0.35	,11:10:43	,07-Dec-2013
1613,	0.1,	98.1,	48,	0.35	,11:11:43	,07-Dec-2013
1614,	0.6,	98.1,	49,	0.45	,11:12:43	,07-Dec-2013
1615,	0.8,	98.0,	48,	0.52	,11:13:43	,07-Dec-2013
1616,	0.4,	98.0,	49,	0.45	,11:14:43	,07-Dec-2013
1617,	0.5,	97.9,	49,	0.49	,11:15:43	,07-Dec-2013
1618,	3.2,	97.8,	49,	0.63	,11:16:43	,07-Dec-2013
1619,	0.7,	97.8,	48,	0.59	,11:17:43	,07-Dec-2013
1620,	1.3,	97.7,	48,	0.71	,11:18:43	,07-Dec-2013
1621,	0.3,	97.5,	48,	0.38	,11:19:43	,07-Dec-2013
1622,	0.1,	97.4,	49,	0.34	,11:20:43	,07-Dec-2013
1623,	0.3,	97.2,	49,	0.38	,11:21:43	,07-Dec-2013
1624,	0.1,	97.2,	49,	0.35	,11:22:43	,07-Dec-2013
1625,	0.9,	97.0,	49,	0.50	,11:23:43	,07-Dec-2013
1626,	0.0,	96.9,	49,	0.33	,11:24:43	,07-Dec-2013
1627,	0.0,	96.7,	49,	0.34	,11:25:43	,07-Dec-2013
1628,	0.4,	96.5,	49,	0.44	,11:26:43	,07-Dec-2013
1629,	0.7,	96.3,	49,	0.52	,11:27:43	,07-Dec-2013
1630,	0.1,	96.2,	49,	0.35	,11:28:43	,07-Dec-2013
1631,	0.3,	96.1,	49,	0.42	,11:29:43	,07-Dec-2013
1632,	0.6,	95.9,	49,	0.46	,11:30:43	,07-Dec-2013
1633,	0.6,	95.8,	49,	0.44	,11:31:43	,07-Dec-2013
1634,	0.2,	95.7,	49,	0.36	,11:32:43	,07-Dec-2013
1635,	0.5,	95.5,	50,	0.38	,11:33:43	,07-Dec-2013
1636,	0.3,	95.4,	50,	0.37	,11:34:43	,07-Dec-2013
1637,	0.3,	95.3,	50,	0.36	,11:35:43	,07-Dec-2013
1638,	0.6,	95.2,	50,	0.39	,11:36:43	,07-Dec-2013
1639,	0.5,	95.1,	50,	0.38	,11:37:43	,07-Dec-2013
1640,	0.5,	95.0,	50,	0.38	,11:38:43	,07-Dec-2013

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1642,	0.2,	94.8,	50,	0.35	,11:40:43	,07-Dec-2013
1643,	0.1,	94.7,	50,	0.34	,11:41:43	,07-Dec-2013
1644,	0.1,	94.6,	50,	0.34	,11:42:43	,07-Dec-2013
1645,	0.2,	94.6,	50,	0.35	,11:43:43	,07-Dec-2013
1646,	0.4,	94.5,	51,	0.38	,11:44:43	,07-Dec-2013
1647,	0.1,	94.5,	51,	0.34	,11:45:43	,07-Dec-2013
1648,	0.2,	94.5,	51,	0.36	,11:46:43	,07-Dec-2013
1649,	0.3,	94.5,	51,	0.37	,11:47:43	,07-Dec-2013
1650,	0.2,	94.4,	50,	0.36	,11:48:43	,07-Dec-2013
1651,	0.6,	94.4,	50,	0.40	,11:49:43	,07-Dec-2013
1652,	0.2,	94.4,	50,	0.36	,11:50:43	,07-Dec-2013
1653,	0.3,	94.4,	50,	0.37	,11:51:43	,07-Dec-2013
1654,	0.5,	94.3,	50,	0.39	,11:52:43	,07-Dec-2013
1655,	0.2,	94.3,	50,	0.36	,11:53:43	,07-Dec-2013
1656,	0.4,	94.2,	50,	0.37	,11:54:43	,07-Dec-2013
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1663,	0.5,	94.1,	50,	0.39	,12:01:43	,07-Dec-2013
1664,	0.5,	94.0,	50,	0.39	,12:02:43	,07-Dec-2013
1665,	0.4,	94.0,	50,	0.40	,12:03:43	,07-Dec-2013
1666,	0.5,	93.9,	50,	0.45	,12:04:43	,07-Dec-2013
1667,	0.3,	93.9,	50,	0.39	,12:05:43	,07-Dec-2013
1668,	0.6,	93.9,	50,	0.45	,12:06:43	,07-Dec-2013
1669,	0.4,	93.9,	50,	0.42	,12:07:43	,07-Dec-2013
1670,	0.3,	93.9,	50,	0.40	,12:08:43	,07-Dec-2013
1671,	0.6,	93.8,	50,	0.48	,12:09:43	,07-Dec-2013
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1673,	0.5,	93.8,	50,	0.45	,12:11:43	,07-Dec-2013
1674,	0.2,	93.7,	50,	0.38	,12:12:43	,07-Dec-2013
1675,	0.7,	93.7,	49,	0.49	,12:13:43	,07-Dec-2013
1676,	0.5,	93.7,	49,	0.41	,12:14:43	,07-Dec-2013
1677,	0.6,	93.7,	50,	0.42	,12:15:43	,07-Dec-2013
1678,	0.8,	93.6,	49,	0.45	,12:16:43	,07-Dec-2013
1679,	0.7,	93.6,	49,	0.44	,12:17:43	,07-Dec-2013
1680,	0.6,	93.6,	50,	0.40	,12:18:43	,07-Dec-2013
1681,	0.4,	93.6,	50,	0.38	,12:19:43	,07-Dec-2013
1682,	0.4,	93.5,	50,	0.38	,12:20:43	,07-Dec-2013
1683,	0.3,	93.5,	50,	0.37	,12:21:43	,07-Dec-2013
1684,	0.7,	93.4,	50,	0.41	,12:22:43	,07-Dec-2013
1685,	0.9,	93.5,	50,	0.44	,12:23:43	,07-Dec-2013
1686,	0.5,	93.5,	50,	0.37	,12:24:43	,07-Dec-2013
1687,	0.7,	93.5,	50,	0.40	,12:25:43	,07-Dec-2013
1688,	0.6,	93.5,	50,	0.38	,12:26:43	,07-Dec-2013
1689,	0.8,	93.5,	50,	0.40	,12:27:43	,07-Dec-2013
1690,	0.5,	93.6,	50,	0.37	,12:28:43	,07-Dec-2013
1691,	0.3,	93.5,	50,	0.36	,12:29:43	,07-Dec-2013
1692,	0.8,	93.5,	50,	0.40	,12:30:43	,07-Dec-2013
1693,	0.5,	93.6,	50,	0.38	,12:31:43	,07-Dec-2013
1694,	0.9,	93.6,	50,	0.42	,12:32:43	,07-Dec-2013
1695,	0.4,	93.6,	49,	0.36	,12:33:43	,07-Dec-2013
1696,	0.7,	93.6,	49,	0.39	,12:34:43	,07-Dec-2013
1697,	0.8,	93.7,	49,	0.36	,12:35:43	,07-Dec-2013
1698,	0.6,	93.7,	49,	0.35	,12:36:43	,07-Dec-2013
1699,	1.2,	93.7,	49,	0.35	,12:37:43	,07-Dec-2013
1700,	0.7,	93.8,	49,	0.33	,12:38:43	,07-Dec-2013
1701,	1.1,	93.9,	49,	0.33	,12:39:43	,07-Dec-2013

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(MASS)ug/m3
Temp (F)
Humidity (RH%)
Diameter (nm)
D787 SN# D787 Dev#2 Tag#80 start: 06-Dec-2013 08:18:43 interval: 00:01:00
105
100
95
90
85
80
75
70
65
60
55
50
45
40
35
30
25
20
15
10
5
0
12/06/13 12:00:00
12/06/13 18:00:00
12/07/13 00:00:00
12/07/13 06:00:00
12/07/13 12:00:00

CONFIDENTIAL & PRIVILEGE

(MASS)ug/m3
Temp (F)
Humidity (RH%)
Diameter (nm)
D787 SN# D787 Dev#:2 Tag# 60 start: 06-Dec-2013 08:18:43 interval: 00:01:00
700
650
600
550
500
450
400
350
300
250
200
150
100
50
0
12/06/13 12:00:00
12/06/13 18:00:00
12/07/13 00:00:00
12/07/13 06:00:00
12/07/13 12:00:00

ALTOL
Environmental Services, Inc.

P.O Box 359 Mercedita, PR 00715-0359

December 2, 2013

Mr. Benjamin Cintrón
Project Manager
Homeca Recycling

RE: AIR PARTICULATE MONITORING REPORT AT PUERTO RICO OLEFINES, PEÑUELAS, PR.

Dear Mr. Cintrón:

Altol Environmental Services, Inc., submits for your review the results obtained during the air particulates monitoring. These were performed following Altol operational procedures.

Altol's technician installed and removed the Data Ram-4 COM equipment from the Towers located at Puerto Rico Olefines in Peñuelas, PR. The equipment collected data every minute for approximately a twenty four (24) hour period. Also, during the installation and removal of the equipment the wind direction, wind velocity, weather and other conditions were documented as supplementary information. The wind velocity was measured using the Kestrell 4000 equipment.

Appendix 1 presents **Table 1** which summarizes the results of information collected at the towers. The data collected during this period indicated levels of particulate material (PM_{10}) that do not exceed the regulated limits of the United States Environmental Protection Agency (USEPA) of 150 $\mu g/m^3$ (40 CFR part 50) (**Appendix 2**). The information collected from each tower is presented in graphics in terms of mass and dates (**Appendix 3**).

The following Appendices present the tables and graphics results for mass ($\mu g/m^3$), temperature ($^{\circ}F$), relative humidity (RH) and diameter (nm), obtained from each Data Ram-4 COM equipment:

- **Appendix 4**, correspond to Tower # 1, November 30 – December 1, 2013.
- **Appendix 5**, correspond to Tower # 2, November 30 – December 1, 2013.

If you need any further information contact us at your earliest convenience at (787)-835-4242 or (787) 430-6141.

Statement of Authenticity,
Altol Environmental Services, Inc.

Certify that the results are complete and accurate

Cordially,

Carlos E. Ocasio Feliciano
Environmental Higiene

Appendix

APPENDIX 1
FUGITIVE DUSTS SAMPLING AND TEST RESULTS

TABLE 1. FUGITIVE DUSTS SAMPLING AND ENVIRONMENTAL CONDITIONS

Air Monitoring Date	Air Monitoring Tower	Latitude and Longitude	Equipment Data Ram-4 COM						Equipment Kestrell Model 4000		Field Observation				Sampling Personnel
			Equipment Model/ID#	Start Time	Finish Time	Avg Mass ($\mu g/m^3$)	Regulatory Limits ($\mu g/m3$)	Avg Diameter (nm)	Wind Velocity Start Time (mph)	Wind Velocity Finish Time (mph)	Weather Condition Start Time	Weather Condition Finish Time	Wind Direction Start Time	Wind Direction Finish Time	
11/30/2013 12/1/2013	1		DR4/D788	9:35	12:00	0.59	150	0.31	2.5	4.3	Cloudy	Cloudy	South	South West	JS
11/30/2013 12/1/2013	2		DR4/D787	9:56	11:57	0.97	150	0.31	3.2	3.5	Cloudy	Cloudy	South	South West	JS

Standard Limit = 150 $\mu g/m^3$

Leyend

N/A -	Not Aplicable
RV -	Robert Velazquez
JRR-	Jaime Rivera Rivera
JR-	Juan Rivera
JC-	Jose Cruz
NH	Nehemias Hernandez
JS-	José Santos

Towers Location:

Tower #1: PR-503
Tower #2: Disposal Area 3A
Tower #3: Access Road #1
Tower #4: Laboratory Area

ALTOL
Environmental Services, Inc.

Statement of Authenticity,
Certify that the results are complete and accurate

Cordially,

Carlos E. Ocasio Feliciano
Environmental Higiene

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APPENDIX 2
USEPA REGULATION PARAMETER

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National Ambient Air Quality Standards (NAAQS)

The Clean Air Act, which was last amended in 1990, requires EPA to set National Ambient Air Quality Standards (40 CFR part 50) for pollutants considered harmful to public health and the environment. The Clean Air Act established two types of national air quality standards. *Primary standards* set limits to protect public health, including the health of "sensitive" populations such as asthmatics, children, and the elderly. *Secondary standards* set limits to protect public welfare, including protection against decreased visibility, damage to animals, crops, vegetation, and buildings.

The EPA Office of Air Quality Planning and Standards (OAQPS) has set National Ambient Air Quality Standards for six principal pollutants, which are called "criteria" pollutants. They are listed below. Units of measure for the standards are parts per million (ppm) by volume, milligrams per cubic meter of air (mg/m^3), and micrograms per cubic meter of air (µg/m^3).

National Ambient Air Quality Standards

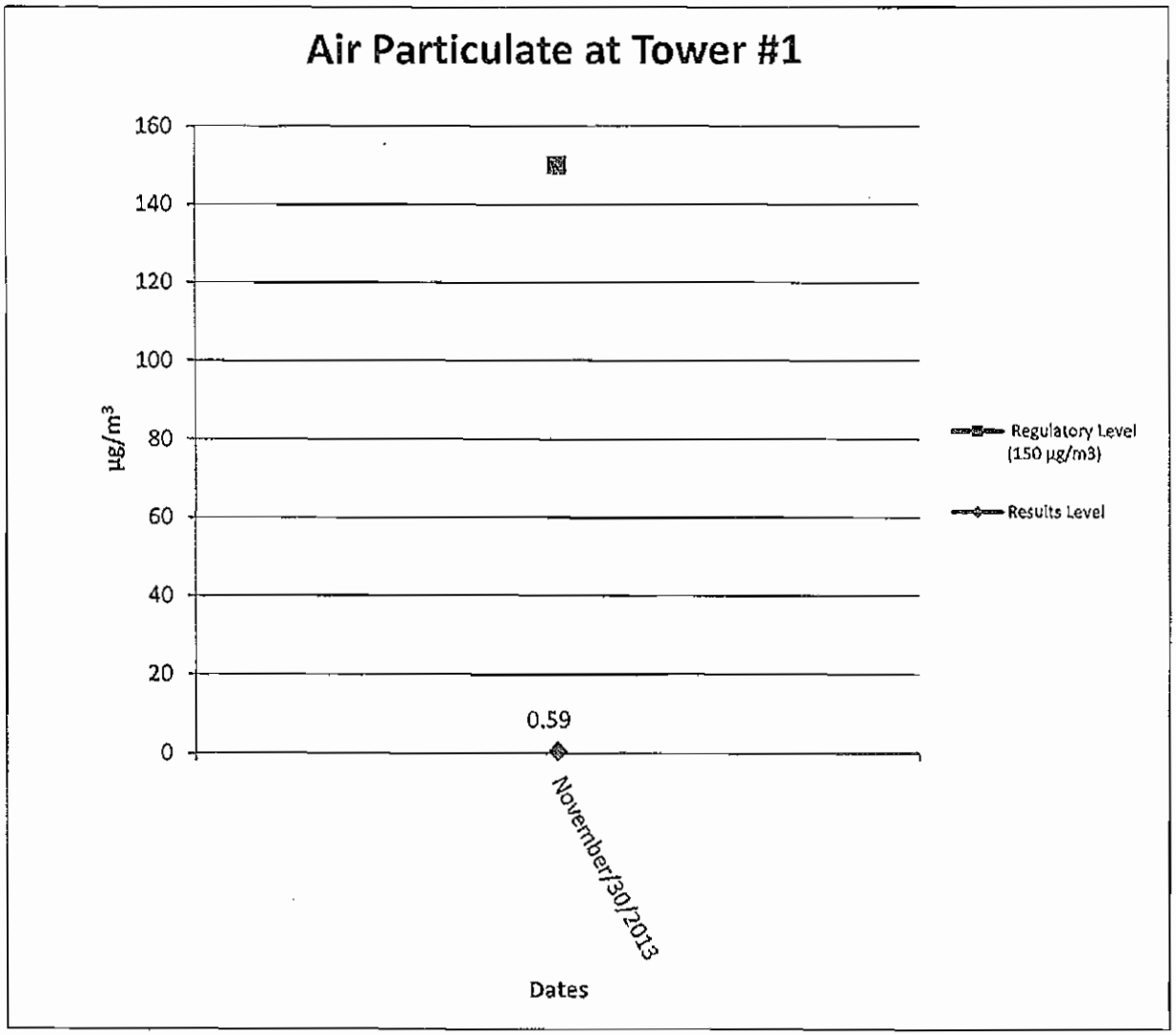
	Primary Standards		Secondary Standards	
Pollutant	Level	Averaging Time	Level	Averaging Time
Carbon Monoxide	9 ppm (10 mg/m^3)	8-hour [1]	None	
	35 ppm (40 mg/m^3)	1-hour [1]		
Lead	0.15 µg/m^3 [2]	Rolling 3-Month Average	Same as Primary	
	1.5 µg/m^3	Quarterly Average	Same as Primary	
Nitrogen Dioxide	0.053 ppm (100 µg/m^3)	Annual (Arithmetic Mean)	Same as Primary	
Particulate Matter (PM_{10})	150 µg/m^3	24-hour [3]	Same as Primary	
Particulate Matter ($PM_{2.5}$)	15.0 µg/m^3	Annual [4] (Arithmetic Mean)	Same as Primary	
	35 µg/m^3	24-hour [5]	Same as Primary	
Ozone	0.075 ppm (2008 std)	8-hour [6]	Same as Primary	
	0.08 ppm (1997 std)	8-hour [7]	Same as Primary	
	0.12 ppm	1-hour [8] (Applies only in limited areas)	Same as Primary	
Sulfur Dioxide	0.03 ppm	Annual (Arithmetic Mean)	0.5 ppm (1300 µg/m^3)	3-hour [1]
	0.14 ppm	24-hour [1]		

[1] Not to be exceeded more than once per year.
[2] Final rule signed October 15, 2008.
[3] Not to be exceeded more than once per year on average over 3 years.
[4] To attain this standard, the 3-year average of the weighted annual mean PM2.5 concentrations from single or multiple community-oriented monitors must not exceed 15.0 µg/m3.
[5] To attain this standard, the 3-year average of the 98th percentile of 24-hour concentrations at each population-oriented monitor within an area must not exceed 35 µg/m3 (effective December 17, 2006).
[6] To attain this standard, the 3-year average of the fourth-highest daily maximum 8-hour average ozone concentrations measured at each monitor within an area over each year must not exceed 0.075 ppm. (effective May 27, 2008)
[7] (a) To attain this standard, the 3-year average of the fourth-highest daily maximum 8-hour average ozone concentrations measured at each monitor within an area over each year must not exceed 0.08 ppm.
(b) The 1997 standard—and the implementation rules for that standard—will remain in place for implementation purposes as EPA undertakes rulemaking to address the transition from the 1997 ozone standard to the 2008 ozone standard.
[8] (a) The standard is attained when the expected number of days per calendar year with maximum hourly average concentrations above 0.12 ppm is ≤ 1.
(b) As of June 15, 2005 EPA revoked the 1-hour ozone standard in all areas except the 8-hour ozone nonattainment Early Action Compact (EAC) Areas.

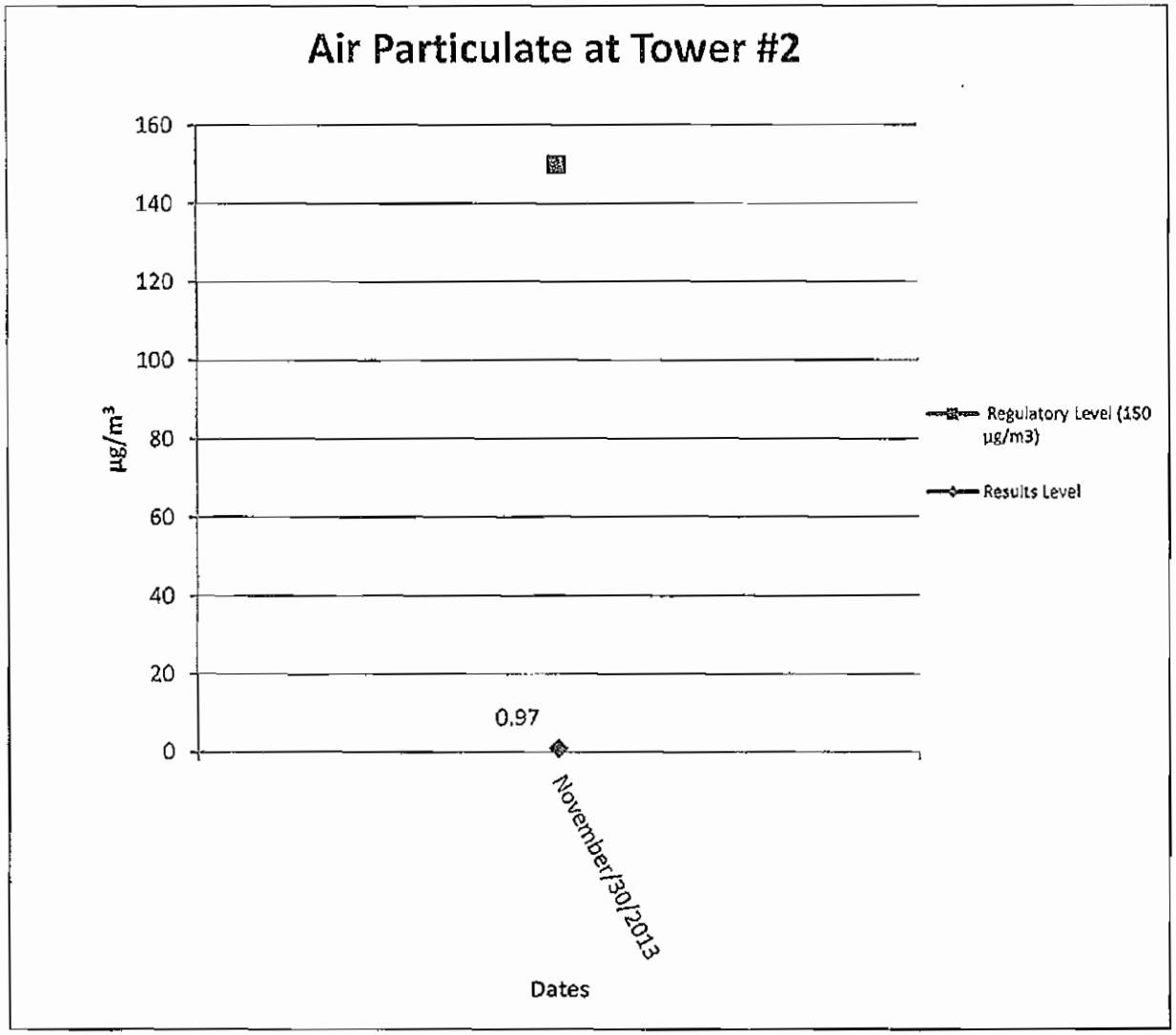
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APPENDIX 3
GRAPHICS OF MASS vs DATE

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APPENDIX 4

TOWER #1 AIR PARTICULATE MONITORING

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"Serial no. ", "D788   "
 Device no. ", 1 Norte, Homeca Recycling and Demolitions, Pro Caribe
 Tag Number ", 47
"Start Time ", 09:34:56
 Start Date ", 30-Nov-2013
 Log Period ", 00:01:00
"Number   ", 1586
"CalFactor   ", 1.000000
 Unit   ", 0
"Unit Name   ", "(MASS)ug/m3"
"SIZE_CORRECT", "ENABLED"
 TEMPUNITS   ", F
 Max MASS   ", 47.583280
"Max MASS @ ", 3 ,09:45:56 ,30-Nov-2013
 Avg MASS   ", 0.586687
 Max Diam   ", 0.955441
"Max Diam @ ", ,09:33:56   ,30-Nov-2013
"Avg Diam   ", 0.314638
 ALARM   ", "DISABLED"
 ALARM_LEVEL ", 0.0
"AUTO_ZERO   ", "DISABLED"
 AZ INTERVAL ", 1
 Errors   ", 0000

record	"(MASS)ug/m3"	Temp	RHumidity	Diameter		
1,	6.1,	76.4,	56,	0.44	,09:35:56	,30-Nov-2013
2,	1.3,	76.6,	59,	0.42	,09:36:56	,30-Nov-2013
3,	1.2,	76.9,	61,	0.45	,09:37:56	,30-Nov-2013
4,	0.9,	77.1,	62,	0.42	,09:38:56	,30-Nov-2013
5,	5.6,	77.3,	63,	0.95	,09:39:56	,30-Nov-2013
6,	0.8,	77.6,	64,	0.49	,09:40:56	,30-Nov-2013
7,	0.8,	77.9,	64,	0.48	,09:41:56	,30-Nov-2013
8,	0.5,	78.1,	64,	0.42	,09:42:56	,30-Nov-2013
9,	0.6,	78.4,	64,	0.45	,09:43:56	,30-Nov-2013
10,	0.6,	78.7,	64,	0.43	,09:44:56	,30-Nov-2013
11,	0.6,	79.0,	64,	0.38	,09:45:56	,30-Nov-2013
12,	0.1,	79.3,	64,	0.34	,09:46:56	,30-Nov-2013
13,	0.6,	79.6,	63,	0.41	,09:47:56	,30-Nov-2013
14,	0.0,	79.9,	63,	0.34	,09:48:56	,30-Nov-2013
15,	0.0,	80.2,	62,	0.34	,09:49:56	,30-Nov-2013
16,	0.2,	80.6,	62,	0.35	,09:50:56	,30-Nov-2013
17,	0.1,	80.9,	61,	0.34	,09:51:56	,30-Nov-2013
18,	0.9,	81.2,	61,	0.41	,09:52:56	,30-Nov-2013
19,	0.7,	81.5,	61,	0.34	,09:53:56	,30-Nov-2013
20,	0.2,	81.7,	60,	0.33	,09:54:56	,30-Nov-2013
21,	0.1,	82.0,	59,	0.33	,09:55:56	,30-Nov-2013
22,	0.0,	82.3,	59,	0.33	,09:56:56	,30-Nov-2013
23,	0.1,	82.6,	59,	0.33	,09:57:56	,30-Nov-2013
24,	0.0,	82.9,	59,	0.33	,09:58:56	,30-Nov-2013
25,	0.0,	83.1,	58,	0.33	,09:59:56	,30-Nov-2013
26,	0.1,	83.4,	58,	0.33	,10:00:56	,30-Nov-2013
27,	0.1,	83.6,	58,	0.33	,10:01:56	,30-Nov-2013
28,	0.0,	83.9,	57,	0.33	,10:02:56	,30-Nov-2013
29,	0.1,	84.2,	57,	0.33	,10:03:56	,30-Nov-2013
30,	6.5,	84.4,	57,	0.31	,10:04:56	,30-Nov-2013
31,	0.2,	84.6,	57,	0.32	,10:05:56	,30-Nov-2013
32,	0.1,	84.8,	56,	0.33	,10:06:56	,30-Nov-2013
33,	0.0,	85.0,	56,	0.33	,10:07:56	,30-Nov-2013
34,	0.1,	85.2,	56,	0.33	,10:08:56	,30-Nov-2013
35,	0.0,	85.4,	55,	0.33	,10:09:56	,30-Nov-2013
36,	0.1,	85.5,	55,	0.33	,10:10:56	,30-Nov-2013
37,	0.2,	85.7,	55,	0.32	,10:11:56	,30-Nov-2013
38,	0.0,	85.8,	55,	0.33	,10:12:56	,30-Nov-2013
39,	0.0,	86.0,	54,	0.33	,10:13:56	,30-Nov-2013
40,	0.0,	86.1,	54,	0.33	,10:14:56	,30-Nov-2013

41,	0.0,	86.3,	54,	0.33	,10:15:56	,30-Nov-2013
42,	0.0,	86.4,	54,	0.33	,10:16:56	,30-Nov-2013
43,	0.0,	86.5,	54,	0.33	,10:17:56	,30-Nov-2013
44,	0.1,	86.7,	53,	0.33	,10:18:56	,30-Nov-2013
45,	0.1,	86.9,	53,	0.33	,10:19:56	,30-Nov-2013
46,	0.1,	87.0,	53,	0.33	,10:20:56	,30-Nov-2013
47,	0.0,	87.2,	53,	0.33	,10:21:56	,30-Nov-2013
48,	0.0,	87.3,	53,	0.33	,10:22:56	,30-Nov-2013
49,	0.0,	87.4,	53,	0.33	,10:23:56	,30-Nov-2013
50,	0.0,	87.5,	52,	0.33	,10:24:56	,30-Nov-2013
51,	0.0,	87.7,	52,	0.33	,10:25:56	,30-Nov-2013
52,	0.0,	87.8,	52,	0.33	,10:26:56	,30-Nov-2013
53,	0.1,	87.9,	51,	0.33	,10:27:56	,30-Nov-2013
54,	0.0,	87.9,	51,	0.33	,10:28:56	,30-Nov-2013
55,	0.1,	88.0,	51,	0.33	,10:29:56	,30-Nov-2013
56,	0.0,	88.1,	51,	0.33	,10:30:56	,30-Nov-2013
57,	0.0,	88.2,	51,	0.33	,10:31:56	,30-Nov-2013
58,	0.0,	88.2,	51,	0.33	,10:32:56	,30-Nov-2013
59,	0.0,	88.3,	51,	0.33	,10:33:56	,30-Nov-2013
60,	0.0,	88.4,	51,	0.33	,10:34:56	,30-Nov-2013
61,	0.0,	88.6,	51,	0.33	,10:35:56	,30-Nov-2013
62,	0.0,	88.6,	50,	0.33	,10:36:56	,30-Nov-2013
63,	0.1,	88.7,	50,	0.33	,10:37:56	,30-Nov-2013
64,	0.1,	88.8,	50,	0.33	,10:38:56	,30-Nov-2013
65,	0.1,	88.8,	50,	0.33	,10:39:56	,30-Nov-2013
66,	0.1,	88.9,	50,	0.33	,10:40:56	,30-Nov-2013
67,	0.0,	89.0,	50,	0.33	,10:41:56	,30-Nov-2013
68,	0.0,	89.0,	50,	0.33	,10:42:56	,30-Nov-2013
69,	0.1,	89.0,	50,	0.33	,10:43:56	,30-Nov-2013
70,	0.0,	89.1,	50,	0.33	,10:44:56	,30-Nov-2013
71,	0.0,	89.1,	50,	0.33	,10:45:56	,30-Nov-2013
72,	0.0,	89.2,	50,	0.33	,10:46:56	,30-Nov-2013
73,	0.0,	89.2,	50,	0.33	,10:47:56	,30-Nov-2013
74,	8.3,	89.3,	50,	0.31	,10:48:56	,30-Nov-2013
75,	0.0,	89.4,	50,	0.33	,10:49:56	,30-Nov-2013
76,	0.1,	89.5,	50,	0.33	,10:50:56	,30-Nov-2013
77,	0.0,	89.6,	50,	0.33	,10:51:56	,30-Nov-2013
78,	0.0,	89.6,	50,	0.33	,10:52:56	,30-Nov-2013
79,	0.1,	89.8,	49,	0.33	,10:53:56	,30-Nov-2013
80,	0.0,	89.9,	49,	0.33	,10:54:56	,30-Nov-2013
81,	0.2,	90.0,	49,	0.33	,10:55:56	,30-Nov-2013
82,	0.1,	90.1,	49,	0.33	,10:56:56	,30-Nov-2013
83,	0.0,	90.2,	49,	0.33	,10:57:56	,30-Nov-2013
84,	0.0,	90.3,	49,	0.33	,10:58:56	,30-Nov-2013
85,	0.0,	90.4,	49,	0.33	,10:59:56	,30-Nov-2013
86,	0.0,	90.5,	48,	0.33	,11:00:56	,30-Nov-2013
87,	0.0,	90.6,	48,	0.33	,11:01:56	,30-Nov-2013
88,	0.0,	90.7,	48,	0.33	,11:02:56	,30-Nov-2013
89,	0.1,	90.8,	48,	0.33	,11:03:56	,30-Nov-2013
90,	0.0,	91.0,	47,	0.33	,11:04:56	,30-Nov-2013
91,	0.0,	91.0,	47,	0.33	,11:05:56	,30-Nov-2013
92,	0.0,	91.2,	47,	0.33	,11:06:56	,30-Nov-2013
93,	0.0,	91.3,	47,	0.33	,11:07:56	,30-Nov-2013
94,	0.1,	91.4,	47,	0.33	,11:08:56	,30-Nov-2013
95,	0.0,	91.5,	47,	0.33	,11:09:56	,30-Nov-2013
96,	0.0,	91.5,	47,	0.33	,11:10:56	,30-Nov-2013
97,	0.0,	91.6,	46,	0.33	,11:11:56	,30-Nov-2013
98,	0.0,	91.7,	47,	0.33	,11:12:56	,30-Nov-2013
99,	0.0,	91.8,	46,	0.33	,11:13:56	,30-Nov-2013
100,	0.2,	91.9,	46,	0.32	,11:14:56	,30-Nov-2013
101,	0.0,	92.0,	46,	0.33	,11:15:56	,30-Nov-2013
102,	0.0,	92.1,	46,	0.33	,11:16:56	,30-Nov-2013
103,	0.1,	92.2,	46,	0.33	,11:17:56	,30-Nov-2013
104,	0.1,	92.3,	45,	0.33	,11:18:56	,30-Nov-2013

105,	0.0,	92.3,	45,	0.33	,11:19:56	,30-Nov-2013
106,	0.0,	92.4,	45,	0.33	,11:20:56	,30-Nov-2013
107,	0.0,	92.4,	45,	0.33	,11:21:56	,30-Nov-2013
108,	0.0,	92.5,	45,	0.33	,11:22:56	,30-Nov-2013
109,	0.0,	92.6,	45,	0.33	,11:23:56	,30-Nov-2013
110,	0.0,	92.6,	45,	0.33	,11:24:56	,30-Nov-2013
111,	0.1,	92.7,	45,	0.33	,11:25:56	,30-Nov-2013
112,	0.1,	92.7,	45,	0.33	,11:26:56	,30-Nov-2013
113,	0.0,	92.8,	45,	0.33	,11:27:56	,30-Nov-2013
114,	0.0,	92.8,	45,	0.33	,11:28:56	,30-Nov-2013
115,	0.0,	93.0,	45,	0.33	,11:29:56	,30-Nov-2013
116,	0.0,	93.0,	45,	0.33	,11:30:56	,30-Nov-2013
117,	0.0,	93.2,	45,	0.33	,11:31:56	,30-Nov-2013
118,	0.0,	93.3,	45,	0.33	,11:32:56	,30-Nov-2013
119,	0.1,	93.3,	45,	0.33	,11:33:56	,30-Nov-2013
120,	0.0,	93.4,	44,	0.33	,11:34:56	,30-Nov-2013
121,	0.0,	93.6,	45,	0.33	,11:35:56	,30-Nov-2013
122,	0.0,	93.7,	44,	0.33	,11:36:56	,30-Nov-2013
123,	0.0,	93.7,	44,	0.33	,11:37:56	,30-Nov-2013
124,	0.1,	93.9,	44,	0.33	,11:38:56	,30-Nov-2013
125,	0.0,	94.0,	44,	0.33	,11:39:56	,30-Nov-2013
126,	0.0,	94.1,	44,	0.33	,11:40:56	,30-Nov-2013
127,	0.0,	94.2,	44,	0.33	,11:41:56	,30-Nov-2013
128,	3.8,	94.3,	44,	0.31	,11:42:56	,30-Nov-2013
129,	0.3,	94.4,	44,	0.32	,11:43:56	,30-Nov-2013
130,	0.0,	94.5,	44,	0.33	,11:44:56	,30-Nov-2013
131,	0.0,	94.6,	44,	0.33	,11:45:56	,30-Nov-2013
132,	0.0,	94.8,	44,	0.33	,11:46:56	,30-Nov-2013
133,	0.1,	95.0,	44,	0.33	,11:47:56	,30-Nov-2013
134,	0.0,	95.0,	43,	0.33	,11:48:56	,30-Nov-2013
135,	0.1,	95.2,	43,	0.32	,11:49:56	,30-Nov-2013
136,	0.0,	95.3,	43,	0.33	,11:50:56	,30-Nov-2013
137,	0.1,	95.4,	43,	0.33	,11:51:56	,30-Nov-2013
138,	0.1,	95.6,	43,	0.32	,11:52:56	,30-Nov-2013
139,	0.1,	95.8,	43,	0.33	,11:53:56	,30-Nov-2013
140,	0.0,	96.1,	43,	0.33	,11:54:56	,30-Nov-2013
141,	0.0,	96.2,	42,	0.33	,11:55:56	,30-Nov-2013
142,	0.2,	96.4,	42,	0.32	,11:56:56	,30-Nov-2013
143,	0.1,	96.7,	42,	0.33	,11:57:56	,30-Nov-2013
144,	0.1,	96.9,	42,	0.33	,11:58:56	,30-Nov-2013
145,	0.0,	97.0,	42,	0.33	,11:59:56	,30-Nov-2013
146,	0.1,	97.2,	41,	0.33	,12:00:56	,30-Nov-2013
147,	0.1,	97.3,	41,	0.33	,12:01:56	,30-Nov-2013
148,	0.0,	97.5,	41,	0.33	,12:02:56	,30-Nov-2013
149,	0.1,	97.7,	41,	0.33	,12:03:56	,30-Nov-2013
150,	0.0,	97.8,	41,	0.33	,12:04:56	,30-Nov-2013
151,	0.1,	97.9,	40,	0.32	,12:05:56	,30-Nov-2013
152,	0.0,	98.0,	40,	0.33	,12:06:56	,30-Nov-2013
153,	0.0,	98.1,	40,	0.33	,12:07:56	,30-Nov-2013
154,	0.1,	98.2,	39,	0.33	,12:08:56	,30-Nov-2013
155,	0.1,	98.3,	39,	0.33	,12:09:56	,30-Nov-2013
156,	0.1,	98.5,	39,	0.33	,12:10:56	,30-Nov-2013
157,	0.0,	98.6,	39,	0.33	,12:11:56	,30-Nov-2013
158,	0.0,	98.6,	39,	0.33	,12:12:56	,30-Nov-2013
159,	0.1,	98.7,	39,	0.33	,12:13:56	,30-Nov-2013
160,	0.0,	98.8,	39,	0.33	,12:14:56	,30-Nov-2013
161,	0.0,	98.8,	39,	0.33	,12:15:56	,30-Nov-2013
162,	0.0,	98.9,	39,	0.33	,12:16:56	,30-Nov-2013
163,	0.1,	99.0,	39,	0.33	,12:17:56	,30-Nov-2013
164,	0.0,	99.1,	39,	0.33	,12:18:56	,30-Nov-2013
165,	0.1,	99.1,	39,	0.33	,12:19:56	,30-Nov-2013
166,	0.0,	99.2,	39,	0.33	,12:20:56	,30-Nov-2013
167,	0.0,	99.3,	38,	0.33	,12:21:56	,30-Nov-2013
168,	0.1,	99.4,	38,	0.33	,12:22:56	,30-Nov-2013

169,	0.0,	99.4,	38,	0.33	,12:23:56	,30-Nov-2013
170,	0.1,	99.5,	38,	0.33	,12:24:56	,30-Nov-2013
171,	1.0,	99.5,	38,	0.30	,12:25:56	,30-Nov-2013
172,	1.9,	99.5,	38,	0.30	,12:26:56	,30-Nov-2013
173,	0.0,	99.6,	38,	0.33	,12:27:56	,30-Nov-2013
174,	0.0,	99.6,	37,	0.33	,12:28:56	,30-Nov-2013
175,	0.0,	99.7,	37,	0.33	,12:29:56	,30-Nov-2013
176,	0.0,	99.7,	37,	0.33	,12:30:56	,30-Nov-2013
177,	0.0,	99.7,	37,	0.33	,12:31:56	,30-Nov-2013
178,	0.0,	99.8,	37,	0.33	,12:32:56	,30-Nov-2013
179,	0.0,	99.8,	37,	0.33	,12:33:56	,30-Nov-2013
180,	0.0,	99.8,	37,	0.33	,12:34:56	,30-Nov-2013
181,	0.1,	99.8,	37,	0.33	,12:35:56	,30-Nov-2013
182,	0.0,	99.7,	37,	0.33	,12:36:56	,30-Nov-2013
183,	0.0,	99.8,	37,	0.33	,12:37:56	,30-Nov-2013
184,	0.0,	99.7,	37,	0.33	,12:38:56	,30-Nov-2013
185,	0.0,	99.7,	37,	0.33	,12:39:56	,30-Nov-2013
186,	0.0,	99.7,	37,	0.33	,12:40:56	,30-Nov-2013
187,	0.0,	99.7,	37,	0.33	,12:41:56	,30-Nov-2013
188,	0.0,	99.6,	37,	0.33	,12:42:56	,30-Nov-2013
189,	0.1,	99.6,	37,	0.33	,12:43:56	,30-Nov-2013
190,	0.0,	99.6,	37,	0.33	,12:44:56	,30-Nov-2013
191,	0.0,	99.6,	37,	0.33	,12:45:56	,30-Nov-2013
192,	0.0,	99.5,	37,	0.33	,12:46:56	,30-Nov-2013
193,	0.0,	99.5,	37,	0.33	,12:47:56	,30-Nov-2013
194,	0.0,	99.4,	37,	0.33	,12:48:56	,30-Nov-2013
195,	0.0,	99.4,	37,	0.33	,12:49:56	,30-Nov-2013
196,	0.0,	99.3,	37,	0.33	,12:50:56	,30-Nov-2013
197,	0.0,	99.2,	37,	0.33	,12:51:56	,30-Nov-2013
198,	0.0,	99.2,	37,	0.33	,12:52:56	,30-Nov-2013
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200,	0.0,	99.1,	37,	0.33	,12:54:56	,30-Nov-2013
201,	0.0,	99.0,	37,	0.33	,12:55:56	,30-Nov-2013
202,	0.0,	98.9,	37,	0.33	,12:56:56	,30-Nov-2013
203,	0.0,	98.9,	37,	0.33	,12:57:56	,30-Nov-2013
204,	0.0,	98.8,	38,	0.33	,12:58:56	,30-Nov-2013
205,	0.0,	98.7,	38,	0.33	,12:59:56	,30-Nov-2013
206,	0.0,	98.7,	38,	0.33	,13:00:56	,30-Nov-2013
207,	0.0,	98.6,	38,	0.33	,13:01:56	,30-Nov-2013
208,	0.1,	98.6,	38,	0.33	,13:02:56	,30-Nov-2013
209,	0.0,	98.5,	38,	0.33	,13:03:56	,30-Nov-2013
210,	0.0,	98.4,	38,	0.33	,13:04:56	,30-Nov-2013
211,	0.0,	98.3,	38,	0.33	,13:05:56	,30-Nov-2013
212,	0.0,	98.2,	38,	0.33	,13:06:56	,30-Nov-2013
213,	0.0,	98.2,	38,	0.33	,13:07:56	,30-Nov-2013
214,	0.4,	98.0,	38,	0.32	,13:08:56	,30-Nov-2013
215,	0.1,	98.0,	39,	0.33	,13:09:56	,30-Nov-2013
216,	0.2,	97.9,	39,	0.33	,13:10:56	,30-Nov-2013
217,	0.0,	97.8,	39,	0.33	,13:11:56	,30-Nov-2013
218,	0.0,	97.6,	40,	0.33	,13:12:56	,30-Nov-2013
219,	0.0,	97.4,	40,	0.33	,13:13:56	,30-Nov-2013
220,	0.0,	97.3,	40,	0.33	,13:14:56	,30-Nov-2013
221,	0.1,	97.1,	41,	0.33	,13:15:56	,30-Nov-2013
222,	0.0,	97.0,	41,	0.33	,13:16:56	,30-Nov-2013
223,	0.0,	96.8,	41,	0.33	,13:17:56	,30-Nov-2013
224,	0.0,	96.6,	42,	0.33	,13:18:56	,30-Nov-2013
225,	0.0,	96.4,	42,	0.33	,13:19:56	,30-Nov-2013
226,	0.0,	96.2,	42,	0.33	,13:20:56	,30-Nov-2013
227,	0.0,	96.0,	43,	0.33	,13:21:56	,30-Nov-2013
228,	0.0,	95.8,	44,	0.33	,13:22:56	,30-Nov-2013
229,	0.0,	95.6,	45,	0.33	,13:23:56	,30-Nov-2013
230,	0.0,	95.4,	45,	0.33	,13:24:56	,30-Nov-2013
231,	0.0,	95.2,	46,	0.33	,13:25:56	,30-Nov-2013
232,	0.0,	95.0,	46,	0.33	,13:26:56	,30-Nov-2013

233,	0.0,	94.8,	46,	0.33	,13:27:56	,30-Nov-2013
234,	0.0,	94.6,	46,	0.33	,13:28:56	,30-Nov-2013
235,	0.0,	94.4,	47,	0.33	,13:29:56	,30-Nov-2013
236,	0.1,	94.2,	47,	0.33	,13:30:56	,30-Nov-2013
237,	0.0,	94.0,	47,	0.33	,13:31:56	,30-Nov-2013
238,	0.0,	93.8,	48,	0.33	,13:32:56	,30-Nov-2013
239,	0.1,	93.6,	48,	0.33	,13:33:56	,30-Nov-2013
240,	0.0,	93.5,	49,	0.33	,13:34:56	,30-Nov-2013
241,	0.0,	93.3,	49,	0.33	,13:35:56	,30-Nov-2013
242,	0.1,	93.2,	49,	0.32	,13:36:56	,30-Nov-2013
243,	0.1,	93.0,	50,	0.33	,13:37:56	,30-Nov-2013
244,	0.0,	92.9,	51,	0.33	,13:38:56	,30-Nov-2013
245,	0.1,	92.8,	51,	0.33	,13:39:56	,30-Nov-2013
246,	0.0,	92.6,	51,	0.33	,13:40:56	,30-Nov-2013
247,	0.0,	92.6,	51,	0.33	,13:41:56	,30-Nov-2013
248,	0.0,	92.5,	51,	0.33	,13:42:56	,30-Nov-2013
249,	0.1,	92.3,	52,	0.33	,13:43:56	,30-Nov-2013
250,	0.0,	92.3,	52,	0.33	,13:44:56	,30-Nov-2013
251,	0.1,	92.2,	52,	0.33	,13:45:56	,30-Nov-2013
252,	0.0,	92.2,	52,	0.33	,13:46:56	,30-Nov-2013
253,	0.0,	92.1,	52,	0.33	,13:47:56	,30-Nov-2013
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257,	0.0,	92.0,	52,	0.33	,13:51:56	,30-Nov-2013
258,	0.0,	92.0,	52,	0.33	,13:52:56	,30-Nov-2013
259,	0.1,	92.0,	52,	0.33	,13:53:56	,30-Nov-2013
260,	0.0,	92.1,	53,	0.33	,13:54:56	,30-Nov-2013
261,	0.1,	92.1,	52,	0.33	,13:55:56	,30-Nov-2013
262,	0.0,	92.1,	52,	0.33	,13:56:56	,30-Nov-2013
263,	0.1,	92.1,	52,	0.33	,13:57:56	,30-Nov-2013
264,	0.0,	92.1,	52,	0.33	,13:58:56	,30-Nov-2013
265,	0.1,	92.1,	53,	0.33	,13:59:56	,30-Nov-2013
266,	0.0,	92.1,	53,	0.33	,14:00:56	,30-Nov-2013
267,	0.0,	92.2,	53,	0.33	,14:01:56	,30-Nov-2013
268,	0.0,	92.1,	53,	0.33	,14:02:56	,30-Nov-2013
269,	0.1,	92.2,	52,	0.33	,14:03:56	,30-Nov-2013
270,	0.0,	92.1,	52,	0.33	,14:04:56	,30-Nov-2013
271,	0.0,	92.2,	52,	0.33	,14:05:56	,30-Nov-2013
272,	0.0,	92.2,	52,	0.33	,14:06:56	,30-Nov-2013
273,	0.0,	92.2,	52,	0.33	,14:07:56	,30-Nov-2013
274,	0.1,	92.2,	53,	0.33	,14:08:56	,30-Nov-2013
275,	0.0,	92.2,	52,	0.33	,14:09:56	,30-Nov-2013
276,	0.1,	92.2,	52,	0.33	,14:10:56	,30-Nov-2013
277,	0.0,	92.2,	53,	0.33	,14:11:56	,30-Nov-2013
278,	0.1,	92.1,	53,	0.33	,14:12:56	,30-Nov-2013
279,	0.1,	92.1,	52,	0.33	,14:13:56	,30-Nov-2013
280,	0.0,	92.1,	53,	0.33	,14:14:56	,30-Nov-2013
281,	0.1,	92.1,	53,	0.33	,14:15:56	,30-Nov-2013
282,	0.1,	92.0,	53,	0.33	,14:16:56	,30-Nov-2013
283,	0.3,	92.0,	53,	0.32	,14:17:56	,30-Nov-2013
284,	0.4,	92.0,	53,	0.31	,14:18:56	,30-Nov-2013
285,	1.6,	92.0,	53,	0.27	,14:19:56	,30-Nov-2013
286,	0.0,	92.0,	53,	0.33	,14:20:56	,30-Nov-2013
287,	0.1,	92.0,	53,	0.33	,14:21:56	,30-Nov-2013
288,	0.1,	92.0,	53,	0.33	,14:22:56	,30-Nov-2013
289,	0.1,	92.0,	53,	0.33	,14:23:56	,30-Nov-2013
290,	0.0,	92.1,	53,	0.33	,14:24:56	,30-Nov-2013
291,	0.1,	92.1,	53,	0.33	,14:25:56	,30-Nov-2013
292,	0.1,	92.1,	53,	0.33	,14:26:56	,30-Nov-2013
293,	0.0,	92.1,	53,	0.33	,14:27:56	,30-Nov-2013
294,	0.1,	92.1,	53,	0.33	,14:28:56	,30-Nov-2013
295,	0.1,	92.1,	53,	0.33	,14:29:56	,30-Nov-2013
296,	0.1,	92.1,	53,	0.33	,14:30:56	,30-Nov-2013

297,	0.1,	92.1,	54,	0.33	,14:31:56	,30-Nov-2013
298,	0.0,	92.1,	54,	0.33	,14:32:56	,30-Nov-2013
299,	0.0,	92.1,	53,	0.33	,14:33:56	,30-Nov-2013
300,	0.0,	92.1,	53,	0.33	,14:34:56	,30-Nov-2013
301,	0.1,	92.2,	53,	0.33	,14:35:56	,30-Nov-2013
302,	0.1,	92.2,	53,	0.33	,14:36:56	,30-Nov-2013
303,	0.1,	92.2,	53,	0.33	,14:37:56	,30-Nov-2013
304,	0.0,	92.3,	53,	0.33	,14:38:56	,30-Nov-2013
305,	0.0,	92.3,	53,	0.33	,14:39:56	,30-Nov-2013
306,	0.0,	92.3,	53,	0.33	,14:40:56	,30-Nov-2013
307,	0.0,	92.3,	53,	0.33	,14:41:56	,30-Nov-2013
308,	0.1,	92.3,	53,	0.33	,14:42:56	,30-Nov-2013
309,	0.0,	92.3,	53,	0.33	,14:43:56	,30-Nov-2013
310,	0.0,	92.3,	53,	0.33	,14:44:56	,30-Nov-2013
311,	0.0,	92.3,	53,	0.33	,14:45:56	,30-Nov-2013
312,	0.0,	92.2,	53,	0.33	,14:46:56	,30-Nov-2013
313,	0.0,	92.2,	53,	0.33	,14:47:56	,30-Nov-2013
314,	0.0,	92.2,	53,	0.33	,14:48:56	,30-Nov-2013
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316,	0.0,	92.1,	53,	0.33	,14:50:56	,30-Nov-2013
317,	0.0,	92.0,	53,	0.33	,14:51:56	,30-Nov-2013
318,	0.1,	92.0,	53,	0.33	,14:52:56	,30-Nov-2013
319,	0.0,	91.9,	53,	0.33	,14:53:56	,30-Nov-2013
320,	0.0,	91.8,	53,	0.33	,14:54:56	,30-Nov-2013
321,	0.0,	91.8,	53,	0.33	,14:55:56	,30-Nov-2013
322,	0.0,	91.7,	53,	0.33	,14:56:56	,30-Nov-2013
323,	0.0,	91.6,	53,	0.33	,14:57:56	,30-Nov-2013
324,	0.0,	91.5,	53,	0.33	,14:58:56	,30-Nov-2013
325,	0.1,	91.4,	53,	0.33	,14:59:56	,30-Nov-2013
326,	0.2,	91.3,	54,	0.32	,15:00:56	,30-Nov-2013
327,	0.1,	91.2,	54,	0.32	,15:01:56	,30-Nov-2013
328,	0.1,	91.0,	54,	0.33	,15:02:56	,30-Nov-2013
329,	0.1,	90.9,	54,	0.33	,15:03:56	,30-Nov-2013
330,	0.1,	90.8,	54,	0.33	,15:04:56	,30-Nov-2013
331,	0.1,	90.6,	55,	0.33	,15:05:56	,30-Nov-2013
332,	0.1,	90.5,	55,	0.33	,15:06:56	,30-Nov-2013
333,	0.0,	90.2,	55,	0.33	,15:07:56	,30-Nov-2013
334,	0.3,	90.1,	55,	0.32	,15:08:56	,30-Nov-2013
335,	0.1,	89.8,	56,	0.33	,15:09:56	,30-Nov-2013
336,	0.1,	89.5,	56,	0.33	,15:10:56	,30-Nov-2013
337,	0.1,	89.1,	56,	0.32	,15:11:56	,30-Nov-2013
338,	0.0,	88.8,	57,	0.33	,15:12:56	,30-Nov-2013
339,	0.2,	88.5,	57,	0.32	,15:13:56	,30-Nov-2013
340,	0.1,	88.1,	58,	0.32	,15:14:56	,30-Nov-2013
341,	0.4,	87.8,	58,	0.31	,15:15:56	,30-Nov-2013
342,	0.3,	87.5,	59,	0.32	,15:16:56	,30-Nov-2013
343,	0.8,	87.1,	59,	0.29	,15:17:56	,30-Nov-2013
344,	1.0,	86.8,	60,	0.28	,15:18:56	,30-Nov-2013
345,	47.6,	86.4,	60,	0.25	,15:19:56	,30-Nov-2013
346,	0.8,	86.1,	61,	0.31	,15:20:56	,30-Nov-2013
347,	0.4,	85.7,	62,	0.32	,15:21:56	,30-Nov-2013
348,	0.1,	85.3,	63,	0.33	,15:22:56	,30-Nov-2013
349,	12.8,	85.0,	64,	0.30	,15:23:56	,30-Nov-2013
350,	2.6,	84.7,	65,	0.32	,15:24:56	,30-Nov-2013
351,	0.1,	84.4,	66,	0.33	,15:25:56	,30-Nov-2013
352,	0.3,	84.1,	67,	0.33	,15:26:56	,30-Nov-2013
353,	4.3,	83.8,	68,	0.36	,15:27:56	,30-Nov-2013
354,	0.5,	83.5,	68,	0.35	,15:28:56	,30-Nov-2013
355,	5.4,	83.3,	69,	0.35	,15:29:56	,30-Nov-2013
356,	1.3,	83.0,	70,	0.34	,15:30:56	,30-Nov-2013
357,	3.2,	82.7,	70,	0.41	,15:31:56	,30-Nov-2013
358,	3.5,	82.4,	71,	0.55	,15:32:56	,30-Nov-2013
359,	0.5,	82.1,	71,	0.44	,15:33:56	,30-Nov-2013
360,	4.8,	81.9,	72,	0.48	,15:34:56	,30-Nov-2013

361,	4.8,	81.6,	72,	0.41	,15:35:56	,30-Nov-2013
362,	3.5,	81.4,	73,	0.34	,15:36:56	,30-Nov-2013
363,	3.6,	81.1,	73,	0.33	,15:37:56	,30-Nov-2013
364,	0.1,	80.9,	73,	0.33	,15:38:56	,30-Nov-2013
365,	0.1,	80.7,	74,	0.33	,15:39:56	,30-Nov-2013
366,	0.2,	80.6,	74,	0.33	,15:40:56	,30-Nov-2013
367,	0.1,	80.3,	74,	0.33	,15:41:56	,30-Nov-2013
368,	4.0,	80.0,	75,	0.31	,15:42:56	,30-Nov-2013
369,	11.8,	79.8,	75,	0.30	,15:43:56	,30-Nov-2013
370,	0.3,	79.7,	76,	0.32	,15:44:56	,30-Nov-2013
371,	0.3,	79.6,	76,	0.32	,15:45:56	,30-Nov-2013
372,	0.2,	79.4,	77,	0.32	,15:46:56	,30-Nov-2013
373,	15.8,	79.3,	77,	0.29	,15:47:56	,30-Nov-2013
374,	0.1,	79.2,	78,	0.33	,15:48:56	,30-Nov-2013
375,	0.3,	79.1,	78,	0.32	,15:49:56	,30-Nov-2013
376,	1.8,	79.1,	78,	0.33	,15:50:56	,30-Nov-2013
377,	0.3,	79.0,	79,	0.33	,15:51:56	,30-Nov-2013
378,	0.1,	79.0,	79,	0.33	,15:52:56	,30-Nov-2013
379,	0.2,	79.0,	79,	0.33	,15:53:56	,30-Nov-2013
380,	0.2,	78.9,	79,	0.33	,15:54:56	,30-Nov-2013
381,	0.2,	78.9,	80,	0.33	,15:55:56	,30-Nov-2013
382,	0.1,	78.9,	80,	0.33	,15:56:56	,30-Nov-2013
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857,	0.3,	72.4,	90,	0.32	,23:51:56	,30-Nov-2013
858,	0.5,	72.4,	90,	0.31	,23:52:56	,30-Nov-2013
859,	0.4,	72.3,	90,	0.31	,23:53:56	,30-Nov-2013
860,	0.3,	72.4,	90,	0.31	,23:54:56	,30-Nov-2013
861,	0.4,	72.4,	90,	0.31	,23:55:56	,30-Nov-2013
862,	0.4,	72.3,	90,	0.31	,23:56:56	,30-Nov-2013
863,	0.5,	72.4,	90,	0.30	,23:57:56	,30-Nov-2013
864,	0.4,	72.3,	90,	0.31	,23:58:56	,30-Nov-2013
865,	0.5,	72.3,	90,	0.30	,23:59:56	,30-Nov-2013
866,	0.5,	72.3,	90,	0.31	,00:00:56	,01-Dec-2013
867,	0.6,	72.3,	90,	0.30	,00:01:56	,01-Dec-2013
868,	0.4,	72.3,	90,	0.31	,00:02:56	,01-Dec-2013
869,	0.5,	72.3,	90,	0.30	,00:03:56	,01-Dec-2013
870,	0.5,	72.3,	90,	0.30	,00:04:56	,01-Dec-2013
871,	0.5,	72.3,	90,	0.30	,00:05:56	,01-Dec-2013
872,	0.5,	72.3,	90,	0.31	,00:06:56	,01-Dec-2013

873,	0.5,	72.3,	90,	0.30	,00:07:56	,01-Dec-2013
874,	0.5,	72.3,	90,	0.30	,00:08:56	,01-Dec-2013
875,	0.5,	72.3,	90,	0.30	,00:09:56	,01-Dec-2013
876,	0.6,	72.3,	90,	0.30	,00:10:56	,01-Dec-2013
877,	0.6,	72.3,	90,	0.30	,00:11:56	,01-Dec-2013
878,	0.5,	72.3,	90,	0.30	,00:12:56	,01-Dec-2013
879,	0.6,	72.2,	90,	0.30	,00:13:56	,01-Dec-2013
880,	0.5,	72.3,	90,	0.30	,00:14:56	,01-Dec-2013
881,	0.5,	72.2,	90,	0.30	,00:15:56	,01-Dec-2013
882,	0.5,	72.3,	90,	0.30	,00:16:56	,01-Dec-2013
883,	0.5,	72.3,	90,	0.30	,00:17:56	,01-Dec-2013
884,	0.6,	72.3,	90,	0.30	,00:18:56	,01-Dec-2013
885,	0.6,	72.2,	90,	0.30	,00:19:56	,01-Dec-2013
886,	0.6,	72.2,	90,	0.30	,00:20:56	,01-Dec-2013
887,	0.5,	72.2,	90,	0.30	,00:21:56	,01-Dec-2013
888,	0.5,	72.3,	90,	0.30	,00:22:56	,01-Dec-2013
889,	0.5,	72.2,	90,	0.30	,00:23:56	,01-Dec-2013
890,	0.4,	72.2,	90,	0.31	,00:24:56	,01-Dec-2013
891,	0.5,	72.2,	90,	0.30	,00:25:56	,01-Dec-2013
892,	0.5,	72.2,	90,	0.30	,00:26:56	,01-Dec-2013
893,	0.5,	72.2,	90,	0.30	,00:27:56	,01-Dec-2013
894,	0.6,	72.1,	90,	0.30	,00:28:56	,01-Dec-2013
895,	0.5,	72.2,	90,	0.30	,00:29:56	,01-Dec-2013
896,	0.4,	72.2,	90,	0.31	,00:30:56	,01-Dec-2013
897,	0.5,	72.2,	90,	0.30	,00:31:56	,01-Dec-2013
898,	0.6,	72.1,	90,	0.30	,00:32:56	,01-Dec-2013
899,	0.4,	72.1,	90,	0.31	,00:33:56	,01-Dec-2013
900,	0.4,	72.1,	90,	0.31	,00:34:56	,01-Dec-2013
901,	0.5,	72.2,	90,	0.31	,00:35:56	,01-Dec-2013
902,	0.6,	72.1,	90,	0.30	,00:36:56	,01-Dec-2013
903,	0.4,	72.1,	90,	0.31	,00:37:56	,01-Dec-2013
904,	0.4,	72.1,	90,	0.31	,00:38:56	,01-Dec-2013
905,	0.4,	72.1,	90,	0.31	,00:39:56	,01-Dec-2013
906,	0.5,	72.1,	90,	0.30	,00:40:56	,01-Dec-2013
907,	0.5,	72.1,	90,	0.30	,00:41:56	,01-Dec-2013
908,	0.5,	72.1,	90,	0.30	,00:42:56	,01-Dec-2013
909,	0.4,	72.1,	90,	0.31	,00:43:56	,01-Dec-2013
910,	0.5,	72.1,	90,	0.30	,00:44:56	,01-Dec-2013
911,	0.5,	72.1,	90,	0.31	,00:45:56	,01-Dec-2013
912,	0.4,	72.1,	90,	0.31	,00:46:56	,01-Dec-2013
913,	0.4,	72.1,	90,	0.31	,00:47:56	,01-Dec-2013
914,	0.5,	72.1,	90,	0.30	,00:48:56	,01-Dec-2013
915,	0.5,	72.0,	90,	0.31	,00:49:56	,01-Dec-2013
916,	0.5,	72.1,	90,	0.30	,00:50:56	,01-Dec-2013
917,	0.5,	72.1,	90,	0.30	,00:51:56	,01-Dec-2013
918,	0.5,	72.1,	90,	0.30	,00:52:56	,01-Dec-2013
919,	0.6,	72.0,	90,	0.30	,00:53:56	,01-Dec-2013
920,	0.4,	72.0,	90,	0.31	,00:54:56	,01-Dec-2013
921,	0.4,	72.0,	90,	0.31	,00:55:56	,01-Dec-2013
922,	0.4,	72.0,	90,	0.31	,00:56:56	,01-Dec-2013
923,	0.5,	72.0,	90,	0.31	,00:57:56	,01-Dec-2013
924,	0.4,	72.0,	90,	0.31	,00:58:56	,01-Dec-2013
925,	0.4,	72.0,	90,	0.31	,00:59:56	,01-Dec-2013
926,	0.4,	72.0,	90,	0.31	,01:00:56	,01-Dec-2013
927,	0.5,	72.0,	90,	0.31	,01:01:56	,01-Dec-2013
928,	0.5,	71.9,	90,	0.30	,01:02:56	,01-Dec-2013
929,	0.6,	72.0,	90,	0.30	,01:03:56	,01-Dec-2013
930,	0.5,	72.0,	90,	0.31	,01:04:56	,01-Dec-2013
931,	0.6,	71.9,	90,	0.30	,01:05:56	,01-Dec-2013
932,	0.6,	72.0,	90,	0.30	,01:06:56	,01-Dec-2013
933,	0.5,	71.9,	90,	0.30	,01:07:56	,01-Dec-2013
934,	0.5,	72.0,	90,	0.30	,01:08:56	,01-Dec-2013
935,	0.4,	71.9,	90,	0.31	,01:09:56	,01-Dec-2013
936,	0.5,	71.9,	90,	0.30	,01:10:56	,01-Dec-2013

937,	0.4,	71.9,	90,	0.31	,01:11:56	,01-Dec-2013
938,	0.5,	71.9,	90,	0.30	,01:12:56	,01-Dec-2013
939,	0.4,	71.9,	90,	0.31	,01:13:56	,01-Dec-2013
940,	0.5,	71.9,	90,	0.30	,01:14:56	,01-Dec-2013
941,	0.5,	71.9,	90,	0.31	,01:15:56	,01-Dec-2013
942,	0.5,	71.9,	90,	0.31	,01:16:56	,01-Dec-2013
943,	0.5,	71.9,	90,	0.30	,01:17:56	,01-Dec-2013
944,	0.5,	71.9,	90,	0.30	,01:18:56	,01-Dec-2013
945,	0.5,	71.8,	90,	0.30	,01:19:56	,01-Dec-2013
946,	0.4,	71.9,	90,	0.31	,01:20:56	,01-Dec-2013
947,	0.5,	71.8,	90,	0.30	,01:21:56	,01-Dec-2013
948,	0.5,	71.8,	90,	0.31	,01:22:56	,01-Dec-2013
949,	0.5,	71.8,	90,	0.31	,01:23:56	,01-Dec-2013
950,	0.5,	71.8,	90,	0.31	,01:24:56	,01-Dec-2013
951,	0.4,	71.8,	90,	0.31	,01:25:56	,01-Dec-2013
952,	0.4,	71.8,	90,	0.31	,01:26:56	,01-Dec-2013
953,	0.4,	71.8,	90,	0.31	,01:27:56	,01-Dec-2013
954,	0.6,	71.8,	90,	0.30	,01:28:56	,01-Dec-2013
955,	0.4,	71.8,	90,	0.31	,01:29:56	,01-Dec-2013
956,	0.5,	71.8,	90,	0.30	,01:30:56	,01-Dec-2013
957,	0.5,	71.7,	90,	0.31	,01:31:56	,01-Dec-2013
958,	0.5,	71.7,	90,	0.30	,01:32:56	,01-Dec-2013
959,	0.4,	71.7,	90,	0.31	,01:33:56	,01-Dec-2013
960,	0.4,	71.7,	90,	0.31	,01:34:56	,01-Dec-2013
961,	0.5,	71.7,	90,	0.30	,01:35:56	,01-Dec-2013
962,	0.6,	71.7,	90,	0.30	,01:36:56	,01-Dec-2013
963,	0.6,	71.7,	90,	0.30	,01:37:56	,01-Dec-2013
964,	0.5,	71.7,	90,	0.30	,01:38:56	,01-Dec-2013
965,	0.4,	71.7,	90,	0.31	,01:39:56	,01-Dec-2013
966,	0.5,	71.7,	90,	0.30	,01:40:56	,01-Dec-2013
967,	0.6,	71.7,	90,	0.30	,01:41:56	,01-Dec-2013
968,	0.7,	71.6,	90,	0.30	,01:42:56	,01-Dec-2013
969,	0.6,	71.6,	90,	0.30	,01:43:56	,01-Dec-2013
970,	0.6,	71.6,	90,	0.30	,01:44:56	,01-Dec-2013
971,	0.6,	71.6,	90,	0.30	,01:45:56	,01-Dec-2013
972,	0.7,	71.6,	90,	0.29	,01:46:56	,01-Dec-2013
973,	0.6,	71.6,	90,	0.30	,01:47:56	,01-Dec-2013
974,	0.7,	71.6,	90,	0.29	,01:48:56	,01-Dec-2013
975,	0.6,	71.6,	90,	0.30	,01:49:56	,01-Dec-2013
976,	0.6,	71.6,	90,	0.30	,01:50:56	,01-Dec-2013
977,	0.7,	71.6,	90,	0.30	,01:51:56	,01-Dec-2013
978,	0.8,	71.5,	90,	0.29	,01:52:56	,01-Dec-2013
979,	0.6,	71.6,	90,	0.30	,01:53:56	,01-Dec-2013
980,	0.6,	71.5,	90,	0.30	,01:54:56	,01-Dec-2013
981,	0.7,	71.5,	90,	0.29	,01:55:56	,01-Dec-2013
982,	0.7,	71.5,	90,	0.29	,01:56:56	,01-Dec-2013
983,	0.8,	71.5,	90,	0.28	,01:57:56	,01-Dec-2013
984,	0.7,	71.5,	90,	0.29	,01:58:56	,01-Dec-2013
985,	0.7,	71.5,	90,	0.28	,01:59:56	,01-Dec-2013
986,	0.8,	71.5,	91,	0.28	,02:00:56	,01-Dec-2013
987,	0.8,	71.5,	91,	0.28	,02:01:56	,01-Dec-2013
988,	0.7,	71.5,	90,	0.29	,02:02:56	,01-Dec-2013
989,	0.7,	71.4,	91,	0.28	,02:03:56	,01-Dec-2013
990,	0.6,	71.4,	91,	0.29	,02:04:56	,01-Dec-2013
991,	0.8,	71.4,	91,	0.28	,02:05:56	,01-Dec-2013
992,	0.8,	71.4,	91,	0.28	,02:06:56	,01-Dec-2013
993,	0.8,	71.4,	91,	0.28	,02:07:56	,01-Dec-2013
994,	0.7,	71.4,	91,	0.28	,02:08:56	,01-Dec-2013
995,	0.8,	71.4,	91,	0.28	,02:09:56	,01-Dec-2013
996,	0.7,	71.4,	91,	0.28	,02:10:56	,01-Dec-2013
997,	0.7,	71.4,	91,	0.29	,02:11:56	,01-Dec-2013
998,	0.7,	71.4,	91,	0.29	,02:12:56	,01-Dec-2013
999,	0.8,	71.4,	91,	0.28	,02:13:56	,01-Dec-2013
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1002,	0.7,	71.4,	91,	0.29	,02:16:56	,01-Dec-2013
1003,	0.7,	71.4,	91,	0.28	,02:17:56	,01-Dec-2013
1004,	0.7,	71.4,	91,	0.28	,02:18:56	,01-Dec-2013
1005,	0.9,	71.4,	91,	0.27	,02:19:56	,01-Dec-2013
1006,	0.8,	71.4,	91,	0.28	,02:20:56	,01-Dec-2013
1007,	0.7,	71.4,	91,	0.28	,02:21:56	,01-Dec-2013
1008,	1.0,	71.4,	91,	0.27	,02:22:56	,01-Dec-2013
1009,	1.0,	71.4,	91,	0.27	,02:23:56	,01-Dec-2013
1010,	0.8,	71.4,	91,	0.27	,02:24:56	,01-Dec-2013
1011,	0.8,	71.4,	91,	0.27	,02:25:56	,01-Dec-2013
1012,	0.8,	71.4,	91,	0.28	,02:26:56	,01-Dec-2013
1013,	0.9,	71.4,	91,	0.27	,02:27:56	,01-Dec-2013
1014,	0.7,	71.4,	91,	0.28	,02:28:56	,01-Dec-2013
1015,	0.7,	71.4,	91,	0.28	,02:29:56	,01-Dec-2013
1016,	0.7,	71.4,	91,	0.28	,02:30:56	,01-Dec-2013
1017,	0.8,	71.4,	91,	0.27	,02:31:56	,01-Dec-2013
1018,	0.5,	71.4,	91,	0.29	,02:32:56	,01-Dec-2013
1019,	0.6,	71.4,	91,	0.29	,02:33:56	,01-Dec-2013
1020,	0.5,	71.4,	91,	0.29	,02:34:56	,01-Dec-2013
1021,	0.7,	71.4,	91,	0.28	,02:35:56	,01-Dec-2013
1022,	0.6,	71.4,	91,	0.29	,02:36:56	,01-Dec-2013
1023,	0.7,	71.4,	91,	0.28	,02:37:56	,01-Dec-2013
1024,	0.7,	71.4,	91,	0.28	,02:38:56	,01-Dec-2013
1025,	0.6,	71.4,	91,	0.28	,02:39:56	,01-Dec-2013
1026,	0.6,	71.3,	91,	0.29	,02:40:56	,01-Dec-2013
1027,	0.6,	71.3,	91,	0.29	,02:41:56	,01-Dec-2013
1028,	0.7,	71.3,	91,	0.28	,02:42:56	,01-Dec-2013
1029,	0.7,	71.4,	91,	0.28	,02:43:56	,01-Dec-2013
1030,	0.7,	71.3,	91,	0.28	,02:44:56	,01-Dec-2013
1031,	0.8,	71.3,	91,	0.28	,02:45:56	,01-Dec-2013
1032,	0.6,	71.3,	91,	0.29	,02:46:56	,01-Dec-2013
1033,	0.7,	71.3,	91,	0.28	,02:47:56	,01-Dec-2013
1034,	0.6,	71.3,	91,	0.28	,02:48:56	,01-Dec-2013
1035,	0.8,	71.3,	91,	0.27	,02:49:56	,01-Dec-2013
1036,	0.7,	71.2,	91,	0.28	,02:50:56	,01-Dec-2013
1037,	0.6,	71.2,	91,	0.28	,02:51:56	,01-Dec-2013
1038,	0.7,	71.2,	91,	0.28	,02:52:56	,01-Dec-2013
1039,	0.6,	71.2,	91,	0.28	,02:53:56	,01-Dec-2013
1040,	0.6,	71.2,	91,	0.28	,02:54:56	,01-Dec-2013
1041,	0.6,	71.2,	91,	0.29	,02:55:56	,01-Dec-2013
1042,	0.6,	71.2,	91,	0.29	,02:56:56	,01-Dec-2013
1043,	0.6,	71.2,	91,	0.29	,02:57:56	,01-Dec-2013
1044,	0.5,	71.2,	91,	0.29	,02:58:56	,01-Dec-2013
1045,	0.6,	71.2,	91,	0.29	,02:59:56	,01-Dec-2013
1046,	0.6,	71.2,	91,	0.29	,03:00:56	,01-Dec-2013
1047,	0.7,	71.2,	91,	0.28	,03:01:56	,01-Dec-2013
1048,	0.7,	71.2,	91,	0.28	,03:02:56	,01-Dec-2013
1049,	0.7,	71.1,	91,	0.28	,03:03:56	,01-Dec-2013
1050,	0.8,	71.2,	91,	0.27	,03:04:56	,01-Dec-2013
1051,	0.9,	71.2,	91,	0.27	,03:05:56	,01-Dec-2013
1052,	0.9,	71.1,	91,	0.27	,03:06:56	,01-Dec-2013
1053,	0.9,	71.1,	91,	0.27	,03:07:56	,01-Dec-2013
1054,	0.8,	71.1,	91,	0.28	,03:08:56	,01-Dec-2013
1055,	0.8,	71.1,	91,	0.27	,03:09:56	,01-Dec-2013
1056,	0.8,	71.1,	91,	0.28	,03:10:56	,01-Dec-2013
1057,	1.0,	71.1,	91,	0.27	,03:11:56	,01-Dec-2013
1058,	1.1,	71.1,	91,	0.26	,03:12:56	,01-Dec-2013
1059,	0.9,	71.1,	91,	0.27	,03:13:56	,01-Dec-2013
1060,	0.9,	71.1,	91,	0.26	,03:14:56	,01-Dec-2013
1061,	0.9,	71.1,	91,	0.27	,03:15:56	,01-Dec-2013
1062,	0.9,	71.1,	91,	0.27	,03:16:56	,01-Dec-2013
1063,	1.0,	71.1,	91,	0.26	,03:17:56	,01-Dec-2013
1064,	0.9,	71.1,	91,	0.26	,03:18:56	,01-Dec-2013

1065,	0.8,	71.1,	91,	0.27	,03:19:56	,01-Dec-2013
1066,	0.8,	71.1,	91,	0.27	,03:20:56	,01-Dec-2013
1067,	0.9,	71.1,	91,	0.26	,03:21:56	,01-Dec-2013
1068,	0.8,	71.1,	91,	0.27	,03:22:56	,01-Dec-2013
1069,	1.0,	71.1,	91,	0.26	,03:23:56	,01-Dec-2013
1070,	1.0,	71.1,	91,	0.25	,03:24:56	,01-Dec-2013
1071,	0.9,	71.1,	91,	0.26	,03:25:56	,01-Dec-2013
1072,	1.0,	71.1,	91,	0.25	,03:26:56	,01-Dec-2013
1073,	1.0,	71.1,	91,	0.26	,03:27:56	,01-Dec-2013
1074,	1.0,	71.0,	91,	0.25	,03:28:56	,01-Dec-2013
1075,	1.1,	71.1,	91,	0.25	,03:29:56	,01-Dec-2013
1076,	1.1,	71.1,	91,	0.25	,03:30:56	,01-Dec-2013
1077,	1.0,	71.1,	91,	0.25	,03:31:56	,01-Dec-2013
1078,	1.0,	71.1,	91,	0.26	,03:32:56	,01-Dec-2013
1079,	0.9,	71.1,	91,	0.26	,03:33:56	,01-Dec-2013
1080,	1.0,	71.1,	91,	0.25	,03:34:56	,01-Dec-2013
1081,	0.9,	71.1,	91,	0.26	,03:35:56	,01-Dec-2013
1082,	0.8,	71.1,	91,	0.27	,03:36:56	,01-Dec-2013
1083,	0.9,	71.1,	91,	0.26	,03:37:56	,01-Dec-2013
1084,	0.8,	71.1,	91,	0.27	,03:38:56	,01-Dec-2013
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1094,	1.0,	71.0,	91,	0.27	,03:48:56	,01-Dec-2013
1095,	0.9,	71.0,	91,	0.27	,03:49:56	,01-Dec-2013
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1098,	1.0,	71.0,	91,	0.26	,03:52:56	,01-Dec-2013
1099,	1.1,	71.0,	91,	0.26	,03:53:56	,01-Dec-2013
1100,	1.1,	71.0,	91,	0.26	,03:54:56	,01-Dec-2013
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1105,	1.3,	71.1,	92,	0.23	,03:59:56	,01-Dec-2013
1106,	1.2,	71.0,	92,	0.24	,04:00:56	,01-Dec-2013
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1109,	1.1,	71.0,	92,	0.25	,04:03:56	,01-Dec-2013
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1111,	1.1,	71.0,	91,	0.25	,04:05:56	,01-Dec-2013
1112,	1.0,	71.0,	91,	0.26	,04:06:56	,01-Dec-2013
1113,	1.0,	71.0,	92,	0.26	,04:07:56	,01-Dec-2013
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1115,	0.9,	71.0,	92,	0.26	,04:09:56	,01-Dec-2013
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1117,	0.9,	71.0,	91,	0.26	,04:11:56	,01-Dec-2013
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1122,	1.0,	71.0,	91,	0.25	,04:16:56	,01-Dec-2013
1123,	0.9,	71.0,	91,	0.26	,04:17:56	,01-Dec-2013
1124,	1.0,	71.0,	91,	0.25	,04:18:56	,01-Dec-2013
1125,	1.1,	71.0,	91,	0.25	,04:19:56	,01-Dec-2013
1126,	0.9,	71.0,	92,	0.26	,04:20:56	,01-Dec-2013
1127,	1.1,	70.9,	92,	0.25	,04:21:56	,01-Dec-2013
1128,	1.0,	71.0,	92,	0.25	,04:22:56	,01-Dec-2013

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1152,	1.3,	70.9,	92,	0.23	,04:46:56	,01-Dec-2013
1153,	1.3,	70.9,	92,	0.23	,04:47:56	,01-Dec-2013
1154,	1.1,	70.9,	92,	0.24	,04:48:56	,01-Dec-2013
1155,	1.1,	70.9,	92,	0.24	,04:49:56	,01-Dec-2013
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1159,	1.2,	70.9,	92,	0.23	,04:53:56	,01-Dec-2013
1160,	1.3,	70.9,	92,	0.23	,04:54:56	,01-Dec-2013
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1162,	1.4,	70.9,	92,	0.22	,04:56:56	,01-Dec-2013
1163,	1.1,	70.9,	92,	0.24	,04:57:56	,01-Dec-2013
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1169,	1.2,	70.9,	92,	0.24	,05:03:56	,01-Dec-2013
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1174,	1.1,	70.9,	92,	0.24	,05:08:56	,01-Dec-2013
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1180,	1.2,	70.9,	92,	0.23	,05:14:56	,01-Dec-2013
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1186,	1.3,	70.9,	92,	0.23	,05:20:56	,01-Dec-2013
1187,	1.2,	70.9,	92,	0.23	,05:21:56	,01-Dec-2013
1188,	1.2,	70.8,	92,	0.23	,05:22:56	,01-Dec-2013
1189,	1.3,	70.8,	92,	0.23	,05:23:56	,01-Dec-2013
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1192,	1.3,	70.8,	92,	0.22	,05:26:56	,01-Dec-2013

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1194,	1.2,	70.9,	92,	0.23	,05:28:56	,01-Dec-2013
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1196,	1.4,	70.8,	92,	0.23	,05:30:56	,01-Dec-2013
1197,	0.9,	70.8,	92,	0.25	,05:31:56	,01-Dec-2013
1198,	1.1,	70.8,	92,	0.24	,05:32:56	,01-Dec-2013
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1202,	1.2,	70.8,	92,	0.23	,05:36:56	,01-Dec-2013
1203,	1.0,	70.8,	92,	0.24	,05:37:56	,01-Dec-2013
1204,	1.1,	70.8,	92,	0.24	,05:38:56	,01-Dec-2013
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1206,	1.2,	70.8,	92,	0.24	,05:40:56	,01-Dec-2013
1207,	1.3,	70.8,	92,	0.24	,05:41:56	,01-Dec-2013
1208,	1.1,	70.8,	92,	0.24	,05:42:56	,01-Dec-2013
1209,	1.0,	70.8,	92,	0.25	,05:43:56	,01-Dec-2013
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1211,	1.1,	70.8,	92,	0.24	,05:45:56	,01-Dec-2013
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1213,	1.0,	70.8,	92,	0.24	,05:47:56	,01-Dec-2013
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1217,	0.9,	70.8,	92,	0.26	,05:51:56	,01-Dec-2013
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1231,	1.1,	70.7,	92,	0.24	,06:05:56	,01-Dec-2013
1232,	1.0,	70.7,	92,	0.24	,06:06:56	,01-Dec-2013
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1237,	0.9,	70.7,	92,	0.25	,06:11:56	,01-Dec-2013
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1246,	1.0,	70.6,	92,	0.24	,06:20:56	,01-Dec-2013
1247,	1.0,	70.6,	92,	0.24	,06:21:56	,01-Dec-2013
1248,	1.0,	70.6,	92,	0.24	,06:22:56	,01-Dec-2013
1249,	1.0,	70.6,	92,	0.24	,06:23:56	,01-Dec-2013
1250,	1.1,	70.6,	92,	0.24	,06:24:56	,01-Dec-2013
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1252,	1.0,	70.6,	92,	0.24	,06:26:56	,01-Dec-2013
1253,	1.0,	70.6,	92,	0.24	,06:27:56	,01-Dec-2013
1254,	1.1,	70.5,	92,	0.23	,06:28:56	,01-Dec-2013
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1259,	1.3,	70.5,	92,	0.22	,06:33:56	,01-Dec-2013
1260,	1.3,	70.5,	92,	0.22	,06:34:56	,01-Dec-2013
1261,	1.3,	70.6,	92,	0.22	,06:35:56	,01-Dec-2013
1262,	1.3,	70.5,	92,	0.22	,06:36:56	,01-Dec-2013
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1264,	1.3,	70.5,	92,	0.22	,06:38:56	,01-Dec-2013
1265,	1.4,	70.5,	92,	0.22	,06:39:56	,01-Dec-2013
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1267,	1.2,	70.5,	92,	0.22	,06:41:56	,01-Dec-2013
1268,	1.2,	70.5,	92,	0.22	,06:42:56	,01-Dec-2013
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1270,	1.2,	70.5,	92,	0.23	,06:44:56	,01-Dec-2013
1271,	1.2,	70.4,	92,	0.24	,06:45:56	,01-Dec-2013
1272,	1.2,	70.5,	92,	0.24	,06:46:56	,01-Dec-2013
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1274,	1.4,	70.5,	92,	0.23	,06:48:56	,01-Dec-2013
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1277,	1.3,	70.5,	92,	0.23	,06:51:56	,01-Dec-2013
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1283,	1.4,	70.4,	92,	0.23	,06:57:56	,01-Dec-2013
1284,	1.4,	70.5,	92,	0.22	,06:58:56	,01-Dec-2013
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1287,	1.3,	70.4,	92,	0.22	,07:01:56	,01-Dec-2013
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1289,	1.3,	70.4,	92,	0.23	,07:03:56	,01-Dec-2013
1290,	1.3,	70.4,	92,	0.23	,07:04:56	,01-Dec-2013
1291,	1.1,	70.4,	92,	0.23	,07:05:56	,01-Dec-2013
1292,	1.4,	70.4,	92,	0.23	,07:06:56	,01-Dec-2013
1293,	1.4,	70.4,	92,	0.22	,07:07:56	,01-Dec-2013
1294,	1.4,	70.4,	92,	0.23	,07:08:56	,01-Dec-2013
1295,	1.4,	70.4,	92,	0.22	,07:09:56	,01-Dec-2013
1296,	1.6,	70.4,	92,	0.21	,07:10:56	,01-Dec-2013
1297,	1.9,	70.4,	92,	0.20	,07:11:56	,01-Dec-2013
1298,	1.3,	70.4,	92,	0.22	,07:12:56	,01-Dec-2013
1299,	1.3,	70.5,	92,	0.22	,07:13:56	,01-Dec-2013
1300,	1.4,	70.4,	92,	0.22	,07:14:56	,01-Dec-2013
1301,	1.6,	70.5,	92,	0.21	,07:15:56	,01-Dec-2013
1302,	1.3,	70.5,	92,	0.23	,07:16:56	,01-Dec-2013
1303,	1.3,	70.4,	92,	0.23	,07:17:56	,01-Dec-2013
1304,	1.6,	70.5,	92,	0.22	,07:18:56	,01-Dec-2013
1305,	1.6,	70.5,	92,	0.21	,07:19:56	,01-Dec-2013
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1533,	0.0,	96.0,	50,	0.33	,11:07:56	,01-Dec-2013
1534,	0.0,	96.1,	50,	0.33	,11:08:56	,01-Dec-2013
1535,	0.0,	96.1,	50,	0.33	,11:09:56	,01-Dec-2013
1536,	0.0,	96.3,	49,	0.33	,11:10:56	,01-Dec-2013
1537,	0.0,	96.4,	49,	0.33	,11:11:56	,01-Dec-2013
1538,	0.0,	96.5,	49,	0.33	,11:12:56	,01-Dec-2013
1539,	0.0,	96.7,	49,	0.33	,11:13:56	,01-Dec-2013
1540,	0.0,	96.9,	48,	0.33	,11:14:56	,01-Dec-2013
1541,	0.0,	97.0,	48,	0.33	,11:15:56	,01-Dec-2013
1542,	0.0,	97.0,	48,	0.33	,11:16:56	,01-Dec-2013
1543,	0.0,	97.2,	48,	0.33	,11:17:56	,01-Dec-2013
1544,	0.0,	97.2,	48,	0.33	,11:18:56	,01-Dec-2013
1545,	0.0,	97.3,	48,	0.33	,11:19:56	,01-Dec-2013
1546,	0.0,	97.5,	48,	0.33	,11:20:56	,01-Dec-2013
1547,	0.0,	97.5,	48,	0.33	,11:21:56	,01-Dec-2013
1548,	0.0,	97.7,	47,	0.33	,11:22:56	,01-Dec-2013
1549,	0.0,	97.7,	47,	0.33	,11:23:56	,01-Dec-2013
1550,	0.0,	97.8,	47,	0.33	,11:24:56	,01-Dec-2013
1551,	0.0,	97.9,	47,	0.33	,11:25:56	,01-Dec-2013
1552,	0.0,	98.0,	47,	0.33	,11:26:56	,01-Dec-2013
1553,	0.0,	98.1,	47,	0.33	,11:27:56	,01-Dec-2013
1554,	0.0,	98.2,	47,	0.33	,11:28:56	,01-Dec-2013
1555,	0.0,	98.3,	47,	0.33	,11:29:56	,01-Dec-2013
1556,	0.0,	98.5,	46,	0.33	,11:30:56	,01-Dec-2013
1557,	0.0,	98.6,	46,	0.33	,11:31:56	,01-Dec-2013
1558,	0.0,	98.7,	46,	0.33	,11:32:56	,01-Dec-2013
1559,	0.0,	98.8,	46,	0.33	,11:33:56	,01-Dec-2013
1560,	0.0,	98.8,	46,	0.33	,11:34:56	,01-Dec-2013
1561,	0.0,	98.8,	45,	0.33	,11:35:56	,01-Dec-2013
1562,	0.0,	98.8,	46,	0.33	,11:36:56	,01-Dec-2013
1563,	0.0,	98.9,	46,	0.33	,11:37:56	,01-Dec-2013
1564,	0.0,	98.9,	46,	0.33	,11:38:56	,01-Dec-2013
1565,	0.0,	99.0,	46,	0.33	,11:39:56	,01-Dec-2013
1566,	0.0,	99.1,	46,	0.33	,11:40:56	,01-Dec-2013
1567,	0.0,	99.2,	46,	0.33	,11:41:56	,01-Dec-2013
1568,	0.0,	99.3,	45,	0.33	,11:42:56	,01-Dec-2013
1569,	0.0,	99.4,	45,	0.33	,11:43:56	,01-Dec-2013
1570,	0.0,	99.5,	45,	0.33	,11:44:56	,01-Dec-2013
1571,	0.0,	99.6,	45,	0.33	,11:45:56	,01-Dec-2013
1572,	0.0,	99.6,	45,	0.33	,11:46:56	,01-Dec-2013
1573,	0.0,	99.6,	45,	0.33	,11:47:56	,01-Dec-2013
1574,	0.0,	99.6,	45,	0.33	,11:48:56	,01-Dec-2013
1575,	0.0,	99.6,	45,	0.33	,11:49:56	,01-Dec-2013
1576,	0.0,	99.6,	45,	0.33	,11:50:56	,01-Dec-2013

1577,	0.0,	99.7,	45,	0.33	,11:51:56	,01-Dec-2013
1578,	0.0,	99.7,	45,	0.33	,11:52:56	,01-Dec-2013
1579,	0.0,	99.7,	45,	0.33	,11:53:56	,01-Dec-2013
1580,	0.0,	99.7,	45,	0.33	,11:54:56	,01-Dec-2013
1581,	0.0,	99.7,	45,	0.33	,11:55:56	,01-Dec-2013
1582,	0.0,	99.7,	45,	0.33	,11:56:56	,01-Dec-2013
1583,	0.0,	99.8,	45,	0.33	,11:57:56	,01-Dec-2013
1584,	0.0,	99.9,	44,	0.33	,11:58:56	,01-Dec-2013
1585,	0.0,	99.9,	44,	0.33	,11:59:56	,01-Dec-2013
1586,	0.0,	99.9,	44,	0.33	,12:00:56	,01-Dec-2013

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APPENDIX 5

TOWER #2 AIR PARTICULATE MONITORING

CONFIDENTIAL & PRIVILEGE

"Model Number", "DataRAM 4 ", 106
 Serial no. ", "D787 Sur Homeca Recycling and Demolitions Pro Caribe   "
 Device no. ", 2
"Tag Number ", 55
 Start Time ", 09:55:32
 Start Date ", 30-Nov-2013
"Log Period ", 00:01:00
"Number   ", 1562
 CalFactor   ", 1.000000
 Unit   ", 0
"Unit Name   ", "(MASS)ug/m3"
 SIZE_CORRECT", "ENABLED"
 TEMPUNITS   ", F
"Max MASS   ", 55.905850
"Max MASS @ ", 1 ,20:38:32 ,30-Nov-2013
 Avg MASS   ", 0.971566
 Max Diam   ", 2.872095
"Max Diam @ ", 1 ,09:54:32 ,30-Nov-2013
 Avg Diam   ", 0.309561
 ALARM   ", "DISABLED"
"ALARM_LEVEL ", 0.0
 AUTO_ZERO   ", "DISABLED"
 AZ INTERVAL ", 1
"Errors   ", 0000
record,"(MASS)ug/m3", Temp, RHumidity, Diameter

1,	9.1,	78.8,	53,	0.39	,09:56:32	,30-Nov-2013
2,	1.1,	79.1,	54,	0.39	,09:57:32	,30-Nov-2013
3,	1.2,	79.4,	56,	0.47	,09:58:32	,30-Nov-2013
4,	0.8,	79.8,	56,	0.42	,09:59:32	,30-Nov-2013
5,	0.9,	80.1,	57,	0.44	,10:00:32	,30-Nov-2013
6,	0.9,	80.5,	57,	0.43	,10:01:32	,30-Nov-2013
7,	0.5,	80.8,	57,	0.39	,10:02:32	,30-Nov-2013
8,	0.5,	81.2,	57,	0.39	,10:03:32	,30-Nov-2013
9,	0.5,	81.5,	57,	0.38	,10:04:32	,30-Nov-2013
10,	0.8,	81.9,	57,	0.42	,10:05:32	,30-Nov-2013
11,	0.6,	82.2,	57,	0.40	,10:06:32	,30-Nov-2013
12,	0.4,	82.5,	57,	0.37	,10:07:32	,30-Nov-2013
13,	0.5,	82.8,	57,	0.38	,10:08:32	,30-Nov-2013
14,	0.8,	83.1,	57,	0.43	,10:09:32	,30-Nov-2013
15,	0.3,	83.3,	56,	0.37	,10:10:32	,30-Nov-2013
16,	0.6,	83.5,	56,	0.40	,10:11:32	,30-Nov-2013
17,	0.6,	83.8,	56,	0.39	,10:12:32	,30-Nov-2013
18,	0.4,	84.1,	56,	0.37	,10:13:32	,30-Nov-2013
19,	0.5,	84.3,	56,	0.38	,10:14:32	,30-Nov-2013
20,	0.3,	84.4,	56,	0.37	,10:15:32	,30-Nov-2013
21,	0.2,	84.6,	56,	0.36	,10:16:32	,30-Nov-2013
22,	0.6,	84.8,	55,	0.40	,10:17:32	,30-Nov-2013
23,	0.7,	85.0,	55,	0.39	,10:18:32	,30-Nov-2013
24,	0.4,	85.2,	55,	0.37	,10:19:32	,30-Nov-2013
25,	0.3,	85.3,	55,	0.35	,10:20:32	,30-Nov-2013
26,	0.6,	85.5,	55,	0.38	,10:21:32	,30-Nov-2013
27,	0.3,	85.7,	55,	0.36	,10:22:32	,30-Nov-2013
28,	0.5,	85.9,	55,	0.37	,10:23:32	,30-Nov-2013
29,	0.4,	86.1,	55,	0.36	,10:24:32	,30-Nov-2013
30,	0.6,	86.3,	55,	0.38	,10:25:32	,30-Nov-2013
31,	0.6,	86.4,	55,	0.38	,10:26:32	,30-Nov-2013
32,	0.4,	86.6,	54,	0.36	,10:27:32	,30-Nov-2013
33,	0.4,	86.9,	54,	0.36	,10:28:32	,30-Nov-2013
34,	0.1,	87.0,	54,	0.34	,10:29:32	,30-Nov-2013
35,	0.0,	87.2,	54,	0.34	,10:30:32	,30-Nov-2013
36,	0.0,	87.3,	54,	0.34	,10:31:32	,30-Nov-2013
37,	0.2,	87.6,	53,	0.35	,10:32:32	,30-Nov-2013
38,	0.1,	87.8,	53,	0.34	,10:33:32	,30-Nov-2013
39,	0.1,	87.8,	53,	0.34	,10:34:32	,30-Nov-2013

40,	0.2,	88.0,	53,	0.35	,10:35:32	,30-Nov-2013
41,	0.2,	88.1,	53,	0.35	,10:36:32	,30-Nov-2013
42,	0.1,	88.2,	53,	0.34	,10:37:32	,30-Nov-2013
43,	0.2,	88.4,	53,	0.35	,10:38:32	,30-Nov-2013
44,	0.2,	88.6,	52,	0.35	,10:39:32	,30-Nov-2013
45,	0.1,	88.7,	52,	0.34	,10:40:32	,30-Nov-2013
46,	0.2,	88.8,	52,	0.35	,10:41:32	,30-Nov-2013
47,	0.2,	89.0,	52,	0.35	,10:42:32	,30-Nov-2013
48,	0.3,	89.1,	52,	0.35	,10:43:32	,30-Nov-2013
49,	0.1,	89.2,	52,	0.34	,10:44:32	,30-Nov-2013
50,	0.2,	89.3,	52,	0.34	,10:45:32	,30-Nov-2013
51,	0.0,	89.5,	52,	0.33	,10:46:32	,30-Nov-2013
52,	0.1,	89.6,	52,	0.34	,10:47:32	,30-Nov-2013
53,	0.0,	89.7,	51,	0.33	,10:48:32	,30-Nov-2013
54,	0.2,	89.8,	51,	0.35	,10:49:32	,30-Nov-2013
55,	0.1,	89.9,	51,	0.34	,10:50:32	,30-Nov-2013
56,	0.0,	90.0,	51,	0.34	,10:51:32	,30-Nov-2013
57,	0.1,	90.1,	51,	0.34	,10:52:32	,30-Nov-2013
58,	0.0,	90.2,	51,	0.33	,10:53:32	,30-Nov-2013
59,	0.0,	90.3,	51,	0.33	,10:54:32	,30-Nov-2013
60,	0.1,	90.4,	51,	0.34	,10:55:32	,30-Nov-2013
61,	0.1,	90.6,	51,	0.34	,10:56:32	,30-Nov-2013
62,	0.1,	90.7,	50,	0.34	,10:57:32	,30-Nov-2013
63,	0.1,	90.8,	50,	0.34	,10:58:32	,30-Nov-2013
64,	0.2,	90.9,	50,	0.35	,10:59:32	,30-Nov-2013
65,	0.1,	91.0,	50,	0.34	,11:00:32	,30-Nov-2013
66,	0.1,	91.1,	50,	0.34	,11:01:32	,30-Nov-2013
67,	0.0,	91.2,	50,	0.33	,11:02:32	,30-Nov-2013
68,	0.3,	91.4,	50,	0.35	,11:03:32	,30-Nov-2013
69,	0.0,	91.5,	50,	0.33	,11:04:32	,30-Nov-2013
70,	0.0,	91.6,	50,	0.33	,11:05:32	,30-Nov-2013
71,	0.1,	91.7,	50,	0.34	,11:06:32	,30-Nov-2013
72,	0.1,	91.9,	49,	0.34	,11:07:32	,30-Nov-2013
73,	0.1,	92.0,	49,	0.34	,11:08:32	,30-Nov-2013
74,	0.3,	92.2,	49,	0.36	,11:09:32	,30-Nov-2013
75,	0.0,	92.3,	49,	0.33	,11:10:32	,30-Nov-2013
76,	0.0,	92.4,	49,	0.33	,11:11:32	,30-Nov-2013
77,	0.0,	92.6,	49,	0.34	,11:12:32	,30-Nov-2013
78,	0.1,	92.6,	49,	0.34	,11:13:32	,30-Nov-2013
79,	0.0,	92.8,	49,	0.33	,11:14:32	,30-Nov-2013
80,	0.2,	92.9,	48,	0.35	,11:15:32	,30-Nov-2013
81,	0.1,	93.1,	48,	0.34	,11:16:32	,30-Nov-2013
82,	0.0,	93.2,	48,	0.33	,11:17:32	,30-Nov-2013
83,	0.0,	93.3,	48,	0.34	,11:18:32	,30-Nov-2013
84,	0.1,	93.3,	48,	0.34	,11:19:32	,30-Nov-2013
85,	0.0,	93.5,	48,	0.33	,11:20:32	,30-Nov-2013
86,	0.1,	93.5,	48,	0.34	,11:21:32	,30-Nov-2013
87,	0.0,	93.6,	48,	0.33	,11:22:32	,30-Nov-2013
88,	0.1,	93.6,	48,	0.34	,11:23:32	,30-Nov-2013
89,	0.1,	93.7,	47,	0.34	,11:24:32	,30-Nov-2013
90,	0.1,	93.8,	47,	0.34	,11:25:32	,30-Nov-2013
91,	0.1,	93.9,	47,	0.34	,11:26:32	,30-Nov-2013
92,	0.0,	94.0,	47,	0.33	,11:27:32	,30-Nov-2013
93,	0.3,	94.0,	47,	0.35	,11:28:32	,30-Nov-2013
94,	0.1,	94.0,	47,	0.34	,11:29:32	,30-Nov-2013
95,	0.0,	94.1,	47,	0.34	,11:30:32	,30-Nov-2013
96,	0.0,	94.2,	47,	0.34	,11:31:32	,30-Nov-2013
97,	0.1,	94.2,	47,	0.34	,11:32:32	,30-Nov-2013
98,	0.1,	94.2,	47,	0.34	,11:33:32	,30-Nov-2013
99,	0.1,	94.3,	47,	0.34	,11:34:32	,30-Nov-2013
100,	0.1,	94.4,	47,	0.34	,11:35:32	,30-Nov-2013
101,	0.0,	94.6,	47,	0.33	,11:36:32	,30-Nov-2013
102,	0.2,	94.7,	47,	0.35	,11:37:32	,30-Nov-2013
103,	0.1,	94.9,	47,	0.34	,11:38:32	,30-Nov-2013

104,	0.2,	95.0,	47,	0.34	,11:39:32	,30-Nov-2013
105,	0.5,	95.1,	46,	0.39	,11:40:32	,30-Nov-2013
106,	0.3,	95.2,	46,	0.36	,11:41:32	,30-Nov-2013
107,	0.0,	95.3,	46,	0.33	,11:42:32	,30-Nov-2013
108,	0.1,	95.3,	46,	0.34	,11:43:32	,30-Nov-2013
109,	0.0,	95.4,	46,	0.33	,11:44:32	,30-Nov-2013
110,	0.1,	95.5,	46,	0.34	,11:45:32	,30-Nov-2013
111,	0.0,	95.5,	46,	0.34	,11:46:32	,30-Nov-2013
112,	0.3,	95.7,	46,	0.36	,11:47:32	,30-Nov-2013
113,	0.1,	95.8,	46,	0.35	,11:48:32	,30-Nov-2013
114,	0.0,	95.9,	46,	0.33	,11:49:32	,30-Nov-2013
115,	0.0,	96.0,	46,	0.33	,11:50:32	,30-Nov-2013
116,	0.0,	96.1,	46,	0.34	,11:51:32	,30-Nov-2013
117,	0.3,	96.2,	46,	0.36	,11:52:32	,30-Nov-2013
118,	0.2,	96.3,	46,	0.35	,11:53:32	,30-Nov-2013
119,	0.1,	96.4,	46,	0.34	,11:54:32	,30-Nov-2013
120,	0.1,	96.6,	46,	0.34	,11:55:32	,30-Nov-2013
121,	0.0,	96.8,	45,	0.34	,11:56:32	,30-Nov-2013
122,	0.3,	97.0,	46,	0.36	,11:57:32	,30-Nov-2013
123,	0.0,	97.1,	45,	0.34	,11:58:32	,30-Nov-2013
124,	0.1,	97.3,	45,	0.34	,11:59:32	,30-Nov-2013
125,	0.3,	97.6,	45,	0.36	,12:00:32	,30-Nov-2013
126,	0.1,	97.8,	45,	0.34	,12:01:32	,30-Nov-2013
127,	0.0,	97.9,	45,	0.34	,12:02:32	,30-Nov-2013
128,	0.0,	98.1,	45,	0.33	,12:03:32	,30-Nov-2013
129,	0.1,	98.2,	44,	0.34	,12:04:32	,30-Nov-2013
130,	0.3,	98.5,	44,	0.36	,12:05:32	,30-Nov-2013
131,	0.0,	98.6,	44,	0.34	,12:06:32	,30-Nov-2013
132,	0.1,	98.8,	44,	0.34	,12:07:32	,30-Nov-2013
133,	0.1,	98.9,	44,	0.34	,12:08:32	,30-Nov-2013
134,	0.0,	99.0,	44,	0.33	,12:09:32	,30-Nov-2013
135,	0.0,	99.1,	43,	0.34	,12:10:32	,30-Nov-2013
136,	0.0,	99.1,	43,	0.34	,12:11:32	,30-Nov-2013
137,	0.1,	99.3,	43,	0.34	,12:12:32	,30-Nov-2013
138,	1.5,	99.4,	43,	0.49	,12:13:32	,30-Nov-2013
139,	55.9,	99.5,	43,	2.87	,12:14:32	,30-Nov-2013
140,	0.9,	99.6,	43,	0.47	,12:15:32	,30-Nov-2013
141,	0.1,	99.7,	43,	0.34	,12:16:32	,30-Nov-2013
142,	0.0,	99.7,	43,	0.33	,12:17:32	,30-Nov-2013
143,	0.1,	99.8,	43,	0.35	,12:18:32	,30-Nov-2013
144,	3.4,	99.9,	42,	0.85	,12:19:32	,30-Nov-2013
145,	2.5,	100.0,	42,	0.94	,12:20:32	,30-Nov-2013
146,	0.0,	100.0,	43,	0.34	,12:21:32	,30-Nov-2013
147,	0.4,	100.1,	42,	0.43	,12:22:32	,30-Nov-2013
148,	0.1,	100.2,	42,	0.35	,12:23:32	,30-Nov-2013
149,	0.1,	100.3,	42,	0.35	,12:24:32	,30-Nov-2013
150,	0.2,	100.3,	42,	0.37	,12:25:32	,30-Nov-2013
151,	0.1,	100.3,	42,	0.35	,12:26:32	,30-Nov-2013
152,	1.9,	100.4,	42,	0.61	,12:27:32	,30-Nov-2013
153,	0.5,	100.4,	42,	0.47	,12:28:32	,30-Nov-2013
154,	0.2,	100.4,	42,	0.38	,12:29:32	,30-Nov-2013
155,	0.1,	100.5,	42,	0.38	,12:30:32	,30-Nov-2013
156,	0.5,	100.5,	42,	0.47	,12:31:32	,30-Nov-2013
157,	0.1,	100.5,	42,	0.34	,12:32:32	,30-Nov-2013
158,	0.1,	100.6,	42,	0.34	,12:33:32	,30-Nov-2013
159,	0.0,	100.6,	41,	0.34	,12:34:32	,30-Nov-2013
160,	0.0,	100.6,	41,	0.33	,12:35:32	,30-Nov-2013
161,	0.1,	100.6,	41,	0.35	,12:36:32	,30-Nov-2013
162,	0.0,	100.6,	41,	0.34	,12:37:32	,30-Nov-2013
163,	0.0,	100.7,	41,	0.34	,12:38:32	,30-Nov-2013
164,	0.0,	100.7,	41,	0.34	,12:39:32	,30-Nov-2013
165,	0.0,	100.7,	41,	0.34	,12:40:32	,30-Nov-2013
166,	0.1,	100.7,	41,	0.34	,12:41:32	,30-Nov-2013
167,	0.1,	100.7,	41,	0.35	,12:42:32	,30-Nov-2013

168,	0.0,	100.7,	41,	0.34	,12:43:32	,30-Nov-2013
169,	0.1,	100.6,	41,	0.35	,12:44:32	,30-Nov-2013
170,	0.0,	100.7,	41,	0.34	,12:45:32	,30-Nov-2013
171,	0.1,	100.6,	40,	0.34	,12:46:32	,30-Nov-2013
172,	0.0,	100.6,	40,	0.34	,12:47:32	,30-Nov-2013
173,	0.0,	100.6,	40,	0.33	,12:48:32	,30-Nov-2013
174,	0.0,	100.5,	40,	0.34	,12:49:32	,30-Nov-2013
175,	0.3,	100.5,	40,	0.39	,12:50:32	,30-Nov-2013
176,	0.1,	100.5,	40,	0.35	,12:51:32	,30-Nov-2013
177,	0.0,	100.4,	40,	0.33	,12:52:32	,30-Nov-2013
178,	0.1,	100.4,	40,	0.35	,12:53:32	,30-Nov-2013
179,	0.0,	100.3,	40,	0.33	,12:54:32	,30-Nov-2013
180,	0.0,	100.2,	40,	0.33	,12:55:32	,30-Nov-2013
181,	0.1,	100.2,	40,	0.34	,12:56:32	,30-Nov-2013
182,	0.1,	100.1,	40,	0.35	,12:57:32	,30-Nov-2013
183,	0.0,	100.0,	40,	0.33	,12:58:32	,30-Nov-2013
184,	0.1,	99.9,	40,	0.36	,12:59:32	,30-Nov-2013
185,	0.4,	99.8,	40,	0.40	,13:00:32	,30-Nov-2013
186,	0.1,	99.8,	40,	0.34	,13:01:32	,30-Nov-2013
187,	0.1,	99.7,	40,	0.34	,13:02:32	,30-Nov-2013
188,	0.1,	99.6,	40,	0.34	,13:03:32	,30-Nov-2013
189,	0.0,	99.6,	40,	0.33	,13:04:32	,30-Nov-2013
190,	0.1,	99.5,	40,	0.35	,13:05:32	,30-Nov-2013
191,	0.0,	99.4,	41,	0.33	,13:06:32	,30-Nov-2013
192,	0.0,	99.3,	41,	0.33	,13:07:32	,30-Nov-2013
193,	0.2,	99.2,	41,	0.37	,13:08:32	,30-Nov-2013
194,	0.1,	99.1,	41,	0.34	,13:09:32	,30-Nov-2013
195,	0.2,	99.0,	41,	0.36	,13:10:32	,30-Nov-2013
196,	0.1,	98.9,	41,	0.35	,13:11:32	,30-Nov-2013
197,	0.0,	98.8,	41,	0.33	,13:12:32	,30-Nov-2013
198,	0.1,	98.7,	41,	0.34	,13:13:32	,30-Nov-2013
199,	0.2,	98.5,	41,	0.37	,13:14:32	,30-Nov-2013
200,	0.0,	98.4,	41,	0.33	,13:15:32	,30-Nov-2013
201,	0.1,	98.2,	42,	0.34	,13:16:32	,30-Nov-2013
202,	0.0,	98.0,	42,	0.33	,13:17:32	,30-Nov-2013
203,	0.0,	97.9,	42,	0.34	,13:18:32	,30-Nov-2013
204,	1.0,	97.7,	42,	0.37	,13:19:32	,30-Nov-2013
205,	0.0,	97.5,	42,	0.33	,13:20:32	,30-Nov-2013
206,	0.1,	97.3,	43,	0.34	,13:21:32	,30-Nov-2013
207,	0.1,	97.1,	43,	0.34	,13:22:32	,30-Nov-2013
208,	0.0,	96.9,	43,	0.33	,13:23:32	,30-Nov-2013
209,	0.0,	96.7,	43,	0.33	,13:24:32	,30-Nov-2013
210,	0.0,	96.4,	44,	0.33	,13:25:32	,30-Nov-2013
211,	0.1,	96.2,	44,	0.34	,13:26:32	,30-Nov-2013
212,	0.0,	96.0,	44,	0.34	,13:27:32	,30-Nov-2013
213,	0.0,	95.8,	44,	0.33	,13:28:32	,30-Nov-2013
214,	0.0,	95.5,	45,	0.33	,13:29:32	,30-Nov-2013
215,	0.0,	95.3,	45,	0.33	,13:30:32	,30-Nov-2013
216,	0.1,	95.1,	45,	0.34	,13:31:32	,30-Nov-2013
217,	0.2,	94.9,	46,	0.34	,13:32:32	,30-Nov-2013
218,	0.1,	94.7,	46,	0.34	,13:33:32	,30-Nov-2013
219,	0.0,	94.5,	46,	0.33	,13:34:32	,30-Nov-2013
220,	0.2,	94.3,	46,	0.34	,13:35:32	,30-Nov-2013
221,	0.0,	94.2,	46,	0.33	,13:36:32	,30-Nov-2013
222,	0.1,	94.0,	47,	0.34	,13:37:32	,30-Nov-2013
223,	0.0,	93.8,	47,	0.33	,13:38:32	,30-Nov-2013
224,	0.2,	93.7,	47,	0.34	,13:39:32	,30-Nov-2013
225,	0.3,	93.5,	47,	0.35	,13:40:32	,30-Nov-2013
226,	0.0,	93.4,	47,	0.33	,13:41:32	,30-Nov-2013
227,	0.4,	93.3,	48,	0.36	,13:42:32	,30-Nov-2013
228,	0.1,	93.2,	48,	0.34	,13:43:32	,30-Nov-2013
229,	0.0,	93.0,	48,	0.33	,13:44:32	,30-Nov-2013
230,	0.1,	92.9,	48,	0.34	,13:45:32	,30-Nov-2013
231,	0.0,	92.8,	48,	0.33	,13:46:32	,30-Nov-2013

232,	0.1,	92.7,	49,	0.34	,13:47:32	,30-Nov-2013
233,	0.1,	92.6,	49,	0.34	,13:48:32	,30-Nov-2013
234,	0.1,	92.6,	49,	0.34	,13:49:32	,30-Nov-2013
235,	0.1,	92.6,	49,	0.34	,13:50:32	,30-Nov-2013
236,	0.1,	92.5,	49,	0.34	,13:51:32	,30-Nov-2013
237,	0.1,	92.4,	49,	0.34	,13:52:32	,30-Nov-2013
238,	0.1,	92.4,	49,	0.34	,13:53:32	,30-Nov-2013
239,	0.1,	92.4,	49,	0.34	,13:54:32	,30-Nov-2013
240,	0.3,	92.4,	49,	0.35	,13:55:32	,30-Nov-2013
241,	0.2,	92.4,	49,	0.34	,13:56:32	,30-Nov-2013
242,	0.1,	92.4,	49,	0.34	,13:57:32	,30-Nov-2013
243,	0.0,	92.4,	50,	0.34	,13:58:32	,30-Nov-2013
244,	0.5,	92.3,	50,	0.37	,13:59:32	,30-Nov-2013
245,	0.8,	92.3,	50,	0.39	,14:00:32	,30-Nov-2013
246,	0.9,	92.3,	50,	0.38	,14:01:32	,30-Nov-2013
247,	0.1,	92.3,	50,	0.34	,14:02:32	,30-Nov-2013
248,	0.1,	92.2,	50,	0.34	,14:03:32	,30-Nov-2013
249,	0.2,	92.2,	50,	0.34	,14:04:32	,30-Nov-2013
250,	0.0,	92.2,	50,	0.33	,14:05:32	,30-Nov-2013
251,	0.1,	92.2,	50,	0.34	,14:06:32	,30-Nov-2013
252,	0.2,	92.1,	50,	0.34	,14:07:32	,30-Nov-2013
253,	0.1,	92.1,	50,	0.34	,14:08:32	,30-Nov-2013
254,	0.0,	92.1,	50,	0.33	,14:09:32	,30-Nov-2013
255,	0.0,	92.0,	50,	0.33	,14:10:32	,30-Nov-2013
256,	0.3,	92.0,	50,	0.35	,14:11:32	,30-Nov-2013
257,	0.0,	92.0,	50,	0.33	,14:12:32	,30-Nov-2013
258,	0.0,	92.0,	50,	0.33	,14:13:32	,30-Nov-2013
259,	0.0,	91.9,	50,	0.33	,14:14:32	,30-Nov-2013
260,	0.0,	91.9,	50,	0.33	,14:15:32	,30-Nov-2013
261,	0.0,	91.9,	50,	0.33	,14:16:32	,30-Nov-2013
262,	0.0,	91.8,	50,	0.33	,14:17:32	,30-Nov-2013
263,	0.2,	91.8,	51,	0.34	,14:18:32	,30-Nov-2013
264,	0.1,	91.8,	51,	0.34	,14:19:32	,30-Nov-2013
265,	0.0,	91.8,	51,	0.33	,14:20:32	,30-Nov-2013
266,	0.1,	91.8,	51,	0.34	,14:21:32	,30-Nov-2013
267,	0.1,	91.8,	51,	0.34	,14:22:32	,30-Nov-2013
268,	0.0,	91.8,	51,	0.33	,14:23:32	,30-Nov-2013
269,	0.1,	91.8,	51,	0.34	,14:24:32	,30-Nov-2013
270,	0.0,	91.8,	51,	0.33	,14:25:32	,30-Nov-2013
271,	0.0,	91.8,	51,	0.33	,14:26:32	,30-Nov-2013
272,	0.1,	91.9,	51,	0.34	,14:27:32	,30-Nov-2013
273,	0.2,	91.9,	51,	0.34	,14:28:32	,30-Nov-2013
274,	0.0,	91.9,	51,	0.33	,14:29:32	,30-Nov-2013
275,	0.0,	91.9,	51,	0.33	,14:30:32	,30-Nov-2013
276,	0.1,	91.9,	51,	0.34	,14:31:32	,30-Nov-2013
277,	0.0,	91.9,	51,	0.33	,14:32:32	,30-Nov-2013
278,	0.3,	91.9,	51,	0.35	,14:33:32	,30-Nov-2013
279,	0.1,	91.9,	51,	0.34	,14:34:32	,30-Nov-2013
280,	0.1,	91.9,	51,	0.34	,14:35:32	,30-Nov-2013
281,	0.0,	91.9,	51,	0.33	,14:36:32	,30-Nov-2013
282,	0.1,	92.0,	51,	0.34	,14:37:32	,30-Nov-2013
283,	0.0,	92.0,	51,	0.33	,14:38:32	,30-Nov-2013
284,	0.0,	92.0,	51,	0.33	,14:39:32	,30-Nov-2013
285,	0.1,	92.1,	51,	0.34	,14:40:32	,30-Nov-2013
286,	0.0,	92.1,	51,	0.33	,14:41:32	,30-Nov-2013
287,	0.1,	92.2,	51,	0.34	,14:42:32	,30-Nov-2013
288,	2.9,	92.1,	51,	0.62	,14:43:32	,30-Nov-2013
289,	3.7,	92.1,	51,	0.84	,14:44:32	,30-Nov-2013
290,	1.4,	92.1,	50,	0.55	,14:45:32	,30-Nov-2013
291,	0.6,	92.1,	51,	0.42	,14:46:32	,30-Nov-2013
292,	0.6,	92.0,	51,	0.40	,14:47:32	,30-Nov-2013
293,	0.1,	92.0,	51,	0.34	,14:48:32	,30-Nov-2013
294,	0.2,	92.0,	51,	0.36	,14:49:32	,30-Nov-2013
295,	0.3,	91.9,	51,	0.37	,14:50:32	,30-Nov-2013

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296,	0.1,	91.9,	51,	0.34	,14:51:32	,30-Nov-2013
297,	0.1,	91.9,	51,	0.34	,14:52:32	,30-Nov-2013
298,	0.0,	91.9,	51,	0.34	,14:53:32	,30-Nov-2013
299,	0.5,	91.9,	51,	0.40	,14:54:32	,30-Nov-2013
300,	0.3,	91.8,	51,	0.37	,14:55:32	,30-Nov-2013
301,	0.6,	91.7,	51,	0.41	,14:56:32	,30-Nov-2013
302,	0.6,	91.7,	51,	0.42	,14:57:32	,30-Nov-2013
303,	0.9,	91.6,	51,	0.45	,14:58:32	,30-Nov-2013
304,	1.6,	91.5,	51,	0.49	,14:59:32	,30-Nov-2013
305,	0.6,	91.5,	51,	0.38	,15:00:32	,30-Nov-2013
306,	0.1,	91.3,	51,	0.34	,15:01:32	,30-Nov-2013
307,	0.0,	91.3,	51,	0.33	,15:02:32	,30-Nov-2013
308,	0.2,	91.1,	51,	0.35	,15:03:32	,30-Nov-2013
309,	0.1,	91.0,	51,	0.34	,15:04:32	,30-Nov-2013
310,	0.1,	90.8,	51,	0.34	,15:05:32	,30-Nov-2013
311,	0.5,	90.7,	52,	0.37	,15:06:32	,30-Nov-2013
312,	0.5,	90.6,	52,	0.37	,15:07:32	,30-Nov-2013
313,	0.5,	90.5,	52,	0.37	,15:08:32	,30-Nov-2013
314,	0.4,	90.2,	52,	0.36	,15:09:32	,30-Nov-2013
315,	0.5,	90.0,	52,	0.37	,15:10:32	,30-Nov-2013
316,	0.4,	89.8,	52,	0.36	,15:11:32	,30-Nov-2013
317,	0.6,	89.7,	52,	0.38	,15:12:32	,30-Nov-2013
318,	0.6,	89.5,	52,	0.37	,15:13:32	,30-Nov-2013
319,	0.7,	89.3,	53,	0.37	,15:14:32	,30-Nov-2013
320,	0.9,	89.0,	53,	0.37	,15:15:32	,30-Nov-2013
321,	1.3,	88.9,	53,	0.38	,15:16:32	,30-Nov-2013
322,	1.6,	88.7,	53,	0.39	,15:17:32	,30-Nov-2013
323,	1.8,	88.4,	53,	0.41	,15:18:32	,30-Nov-2013
324,	1.5,	88.2,	54,	0.40	,15:19:32	,30-Nov-2013
325,	7.9,	88.0,	54,	0.40	,15:20:32	,30-Nov-2013
326,	2.8,	87.8,	56,	0.53	,15:21:32	,30-Nov-2013
327,	2.1,	87.4,	56,	0.43	,15:22:32	,30-Nov-2013
328,	2.0,	87.2,	57,	0.38	,15:23:32	,30-Nov-2013
329,	2.6,	87.0,	58,	0.50	,15:24:32	,30-Nov-2013
330,	1.8,	86.8,	58,	0.43	,15:25:32	,30-Nov-2013
331,	1.3,	86.5,	59,	0.39	,15:26:32	,30-Nov-2013
332,	1.3,	86.3,	59,	0.39	,15:27:32	,30-Nov-2013
333,	9.0,	86.2,	59,	0.40	,15:28:32	,30-Nov-2013
334,	1.4,	86.0,	60,	0.38	,15:29:32	,30-Nov-2013
335,	1.6,	85.8,	60,	0.38	,15:30:32	,30-Nov-2013
336,	1.5,	85.6,	60,	0.37	,15:31:32	,30-Nov-2013
337,	1.5,	85.4,	61,	0.43	,15:32:32	,30-Nov-2013
338,	1.0,	85.2,	61,	0.41	,15:33:32	,30-Nov-2013
339,	1.9,	85.0,	61,	0.47	,15:34:32	,30-Nov-2013
340,	2.3,	84.7,	61,	0.44	,15:35:32	,30-Nov-2013
341,	1.8,	84.6,	61,	0.43	,15:36:32	,30-Nov-2013
342,	2.2,	84.4,	62,	0.42	,15:37:32	,30-Nov-2013
343,	1.8,	84.2,	63,	0.40	,15:38:32	,30-Nov-2013
344,	1.5,	84.1,	63,	0.43	,15:39:32	,30-Nov-2013
345,	1.0,	83.8,	64,	0.38	,15:40:32	,30-Nov-2013
346,	2.0,	83.7,	64,	0.41	,15:41:32	,30-Nov-2013
347,	0.5,	83.5,	64,	0.35	,15:42:32	,30-Nov-2013
348,	0.9,	83.3,	64,	0.37	,15:43:32	,30-Nov-2013
349,	1.4,	83.2,	65,	0.37	,15:44:32	,30-Nov-2013
350,	1.4,	82.9,	65,	0.39	,15:45:32	,30-Nov-2013
351,	1.7,	82.8,	65,	0.40	,15:46:32	,30-Nov-2013
352,	0.9,	82.7,	65,	0.36	,15:47:32	,30-Nov-2013
353,	1.4,	82.5,	65,	0.37	,15:48:32	,30-Nov-2013
354,	1.6,	82.4,	66,	0.36	,15:49:32	,30-Nov-2013
355,	1.6,	82.3,	66,	0.35	,15:50:32	,30-Nov-2013
356,	1.3,	82.1,	66,	0.34	,15:51:32	,30-Nov-2013
357,	1.2,	82.0,	66,	0.34	,15:52:32	,30-Nov-2013
358,	1.2,	81.9,	67,	0.34	,15:53:32	,30-Nov-2013
359,	1.3,	81.8,	67,	0.34	,15:54:32	,30-Nov-2013

360,	1.4,	81.8,	67,	0.34	,15:55:32	,30-Nov-2013
361,	1.4,	81.7,	67,	0.34	,15:56:32	,30-Nov-2013
362,	1.5,	81.6,	67,	0.34	,15:57:32	,30-Nov-2013
363,	1.8,	81.5,	67,	0.34	,15:58:32	,30-Nov-2013
364,	1.8,	81.5,	67,	0.33	,15:59:32	,30-Nov-2013
365,	1.9,	81.4,	68,	0.32	,16:00:32	,30-Nov-2013
366,	1.6,	81.3,	68,	0.32	,16:01:32	,30-Nov-2013
367,	1.5,	81.2,	68,	0.32	,16:02:32	,30-Nov-2013
368,	1.4,	81.1,	68,	0.32	,16:03:32	,30-Nov-2013
369,	1.3,	81.1,	68,	0.32	,16:04:32	,30-Nov-2013
370,	1.3,	81.0,	68,	0.32	,16:05:32	,30-Nov-2013
371,	1.1,	80.9,	68,	0.33	,16:06:32	,30-Nov-2013
372,	1.1,	80.9,	68,	0.33	,16:07:32	,30-Nov-2013
373,	1.0,	80.8,	68,	0.33	,16:08:32	,30-Nov-2013
374,	1.2,	80.7,	68,	0.33	,16:09:32	,30-Nov-2013
375,	0.9,	80.7,	69,	0.33	,16:10:32	,30-Nov-2013
376,	0.9,	80.7,	69,	0.33	,16:11:32	,30-Nov-2013
377,	0.9,	80.6,	69,	0.33	,16:12:32	,30-Nov-2013
378,	0.9,	80.5,	69,	0.33	,16:13:32	,30-Nov-2013
379,	0.9,	80.5,	69,	0.33	,16:14:32	,30-Nov-2013
380,	1.3,	80.5,	69,	0.32	,16:15:32	,30-Nov-2013
381,	1.3,	80.4,	69,	0.32	,16:16:32	,30-Nov-2013
382,	1.2,	80.3,	69,	0.33	,16:17:32	,30-Nov-2013
383,	1.4,	80.2,	69,	0.32	,16:18:32	,30-Nov-2013
384,	1.2,	80.2,	70,	0.32	,16:19:32	,30-Nov-2013
385,	1.1,	80.2,	69,	0.33	,16:20:32	,30-Nov-2013
386,	1.0,	80.2,	69,	0.33	,16:21:32	,30-Nov-2013
387,	1.3,	80.1,	69,	0.32	,16:22:32	,30-Nov-2013
388,	1.2,	80.0,	69,	0.32	,16:23:32	,30-Nov-2013
389,	1.0,	80.0,	69,	0.32	,16:24:32	,30-Nov-2013
390,	0.9,	80.0,	70,	0.32	,16:25:32	,30-Nov-2013
391,	1.2,	80.0,	70,	0.32	,16:26:32	,30-Nov-2013
392,	1.2,	80.0,	70,	0.32	,16:27:32	,30-Nov-2013
393,	1.1,	80.0,	70,	0.32	,16:28:32	,30-Nov-2013
394,	1.4,	80.0,	70,	0.32	,16:29:32	,30-Nov-2013
395,	1.4,	79.9,	70,	0.32	,16:30:32	,30-Nov-2013
396,	1.3,	79.8,	70,	0.32	,16:31:32	,30-Nov-2013
397,	1.0,	79.8,	70,	0.32	,16:32:32	,30-Nov-2013
398,	1.3,	79.8,	70,	0.32	,16:33:32	,30-Nov-2013
399,	1.3,	79.8,	70,	0.32	,16:34:32	,30-Nov-2013
400,	1.2,	79.8,	70,	0.32	,16:35:32	,30-Nov-2013
401,	0.9,	79.7,	70,	0.33	,16:36:32	,30-Nov-2013
402,	0.8,	79.7,	70,	0.33	,16:37:32	,30-Nov-2013
403,	0.9,	79.7,	70,	0.32	,16:38:32	,30-Nov-2013
404,	1.0,	79.6,	71,	0.32	,16:39:32	,30-Nov-2013
405,	0.5,	79.6,	70,	0.33	,16:40:32	,30-Nov-2013
406,	0.8,	79.6,	71,	0.33	,16:41:32	,30-Nov-2013
407,	0.9,	79.5,	71,	0.32	,16:42:32	,30-Nov-2013
408,	0.8,	79.4,	71,	0.33	,16:43:32	,30-Nov-2013
409,	1.0,	79.4,	71,	0.32	,16:44:32	,30-Nov-2013
410,	0.9,	79.4,	71,	0.32	,16:45:32	,30-Nov-2013
411,	0.8,	79.3,	71,	0.33	,16:46:32	,30-Nov-2013
412,	0.9,	79.3,	71,	0.32	,16:47:32	,30-Nov-2013
413,	0.8,	79.3,	71,	0.33	,16:48:32	,30-Nov-2013
414,	1.0,	79.3,	71,	0.32	,16:49:32	,30-Nov-2013
415,	1.2,	79.2,	71,	0.32	,16:50:32	,30-Nov-2013
416,	1.0,	79.2,	71,	0.32	,16:51:32	,30-Nov-2013
417,	0.8,	79.2,	71,	0.33	,16:52:32	,30-Nov-2013
418,	1.3,	79.1,	71,	0.32	,16:53:32	,30-Nov-2013
419,	1.0,	79.1,	71,	0.32	,16:54:32	,30-Nov-2013
420,	1.1,	79.1,	71,	0.32	,16:55:32	,30-Nov-2013
421,	0.9,	79.1,	72,	0.32	,16:56:32	,30-Nov-2013
422,	1.2,	79.1,	71,	0.32	,16:57:32	,30-Nov-2013
423,	1.0,	79.1,	72,	0.32	,16:58:32	,30-Nov-2013

424,	1.0,	79.0,	72,	0.32	,16:59:32	,30-Nov-2013
425,	0.8,	78.9,	72,	0.33	,17:00:32	,30-Nov-2013
426,	1.2,	78.9,	72,	0.32	,17:01:32	,30-Nov-2013
427,	1.0,	78.9,	72,	0.32	,17:02:32	,30-Nov-2013
428,	1.1,	78.9,	72,	0.32	,17:03:32	,30-Nov-2013
429,	1.1,	78.9,	72,	0.32	,17:04:32	,30-Nov-2013
430,	1.2,	78.9,	72,	0.32	,17:05:32	,30-Nov-2013
431,	1.1,	78.9,	72,	0.32	,17:06:32	,30-Nov-2013
432,	1.2,	78.9,	72,	0.32	,17:07:32	,30-Nov-2013
433,	1.0,	78.9,	72,	0.32	,17:08:32	,30-Nov-2013
434,	1.2,	78.9,	72,	0.32	,17:09:32	,30-Nov-2013
435,	1.1,	78.9,	73,	0.32	,17:10:32	,30-Nov-2013
436,	1.3,	78.9,	73,	0.32	,17:11:32	,30-Nov-2013
437,	1.1,	78.8,	73,	0.32	,17:12:32	,30-Nov-2013
438,	1.2,	78.8,	73,	0.31	,17:13:32	,30-Nov-2013
439,	1.1,	78.8,	73,	0.32	,17:14:32	,30-Nov-2013
440,	1.1,	78.8,	73,	0.32	,17:15:32	,30-Nov-2013
441,	6.3,	78.8,	73,	0.30	,17:16:32	,30-Nov-2013
442,	1.5,	78.8,	73,	0.28	,17:17:32	,30-Nov-2013
443,	1.1,	78.8,	73,	0.29	,17:18:32	,30-Nov-2013
444,	1.1,	78.8,	73,	0.29	,17:19:32	,30-Nov-2013
445,	1.2,	78.8,	74,	0.29	,17:20:32	,30-Nov-2013
446,	1.2,	78.7,	74,	0.29	,17:21:32	,30-Nov-2013
447,	1.6,	78.7,	74,	0.27	,17:22:32	,30-Nov-2013
448,	1.4,	78.7,	74,	0.28	,17:23:32	,30-Nov-2013
449,	1.2,	78.8,	74,	0.28	,17:24:32	,30-Nov-2013
450,	1.2,	78.7,	74,	0.29	,17:25:32	,30-Nov-2013
451,	1.0,	78.7,	74,	0.29	,17:26:32	,30-Nov-2013
452,	1.2,	78.7,	74,	0.29	,17:27:32	,30-Nov-2013
453,	1.2,	78.7,	74,	0.29	,17:28:32	,30-Nov-2013
454,	1.1,	78.7,	74,	0.29	,17:29:32	,30-Nov-2013
455,	1.0,	78.6,	74,	0.29	,17:30:32	,30-Nov-2013
456,	1.2,	78.5,	74,	0.29	,17:31:32	,30-Nov-2013
457,	1.0,	78.6,	74,	0.29	,17:32:32	,30-Nov-2013
458,	1.3,	78.5,	74,	0.28	,17:33:32	,30-Nov-2013
459,	1.2,	78.5,	74,	0.28	,17:34:32	,30-Nov-2013
460,	1.6,	78.4,	74,	0.29	,17:35:32	,30-Nov-2013
461,	1.0,	78.4,	74,	0.31	,17:36:32	,30-Nov-2013
462,	1.1,	78.4,	74,	0.30	,17:37:32	,30-Nov-2013
463,	0.7,	78.4,	74,	0.31	,17:38:32	,30-Nov-2013
464,	1.2,	78.3,	74,	0.30	,17:39:32	,30-Nov-2013
465,	1.2,	78.3,	74,	0.30	,17:40:32	,30-Nov-2013
466,	1.0,	78.3,	74,	0.31	,17:41:32	,30-Nov-2013
467,	1.3,	78.3,	74,	0.30	,17:42:32	,30-Nov-2013
468,	1.3,	78.3,	74,	0.30	,17:43:32	,30-Nov-2013
469,	1.4,	78.2,	74,	0.30	,17:44:32	,30-Nov-2013
470,	1.2,	78.2,	74,	0.30	,17:45:32	,30-Nov-2013
471,	1.1,	78.2,	75,	0.30	,17:46:32	,30-Nov-2013
472,	1.3,	78.2,	75,	0.30	,17:47:32	,30-Nov-2013
473,	1.4,	78.2,	75,	0.30	,17:48:32	,30-Nov-2013
474,	1.5,	78.2,	75,	0.29	,17:49:32	,30-Nov-2013
475,	1.6,	78.2,	75,	0.29	,17:50:32	,30-Nov-2013
476,	1.4,	78.1,	75,	0.30	,17:51:32	,30-Nov-2013
477,	1.4,	78.1,	75,	0.29	,17:52:32	,30-Nov-2013
478,	1.2,	78.1,	75,	0.31	,17:53:32	,30-Nov-2013
479,	1.3,	78.0,	75,	0.31	,17:54:32	,30-Nov-2013
480,	1.6,	78.0,	75,	0.30	,17:55:32	,30-Nov-2013
481,	1.4,	78.0,	75,	0.30	,17:56:32	,30-Nov-2013
482,	1.4,	78.0,	75,	0.30	,17:57:32	,30-Nov-2013
483,	1.4,	78.0,	75,	0.30	,17:58:32	,30-Nov-2013
484,	1.3,	77.9,	75,	0.30	,17:59:32	,30-Nov-2013
485,	1.3,	77.9,	75,	0.30	,18:00:32	,30-Nov-2013
486,	1.4,	77.8,	75,	0.30	,18:01:32	,30-Nov-2013
487,	1.4,	77.8,	75,	0.31	,18:02:32	,30-Nov-2013

488,	1.5,	77.8,	75,	0.30	,18:03:32	,30-Nov-2013
489,	1.3,	77.8,	75,	0.31	,18:04:32	,30-Nov-2013
490,	1.4,	77.8,	75,	0.30	,18:05:32	,30-Nov-2013
491,	1.3,	77.7,	75,	0.30	,18:06:32	,30-Nov-2013
492,	1.2,	77.7,	75,	0.30	,18:07:32	,30-Nov-2013
493,	1.3,	77.6,	75,	0.30	,18:08:32	,30-Nov-2013
494,	1.4,	77.6,	75,	0.30	,18:09:32	,30-Nov-2013
495,	1.4,	77.5,	75,	0.30	,18:10:32	,30-Nov-2013
496,	1.4,	77.5,	76,	0.30	,18:11:32	,30-Nov-2013
497,	1.3,	77.5,	76,	0.30	,18:12:32	,30-Nov-2013
498,	1.7,	77.5,	76,	0.29	,18:13:32	,30-Nov-2013
499,	1.2,	77.5,	76,	0.30	,18:14:32	,30-Nov-2013
500,	1.4,	77.5,	76,	0.30	,18:15:32	,30-Nov-2013
501,	1.1,	77.4,	76,	0.31	,18:16:32	,30-Nov-2013
502,	1.1,	77.4,	76,	0.31	,18:17:32	,30-Nov-2013
503,	1.3,	77.3,	76,	0.30	,18:18:32	,30-Nov-2013
504,	1.3,	77.3,	76,	0.30	,18:19:32	,30-Nov-2013
505,	1.1,	77.3,	76,	0.31	,18:20:32	,30-Nov-2013
506,	1.0,	77.3,	76,	0.31	,18:21:32	,30-Nov-2013
507,	1.3,	77.3,	76,	0.30	,18:22:32	,30-Nov-2013
508,	1.2,	77.2,	76,	0.30	,18:23:32	,30-Nov-2013
509,	1.2,	77.2,	76,	0.30	,18:24:32	,30-Nov-2013
510,	1.1,	77.2,	76,	0.31	,18:25:32	,30-Nov-2013
511,	1.4,	77.1,	76,	0.30	,18:26:32	,30-Nov-2013
512,	1.3,	77.1,	76,	0.30	,18:27:32	,30-Nov-2013
513,	0.9,	77.1,	76,	0.31	,18:28:32	,30-Nov-2013
514,	0.9,	77.1,	76,	0.31	,18:29:32	,30-Nov-2013
515,	1.0,	77.1,	76,	0.31	,18:30:32	,30-Nov-2013
516,	0.9,	77.0,	76,	0.31	,18:31:32	,30-Nov-2013
517,	0.9,	77.0,	76,	0.31	,18:32:32	,30-Nov-2013
518,	1.1,	77.0,	76,	0.30	,18:33:32	,30-Nov-2013
519,	1.0,	77.0,	76,	0.31	,18:34:32	,30-Nov-2013
520,	1.0,	76.9,	76,	0.31	,18:35:32	,30-Nov-2013
521,	0.8,	76.9,	76,	0.31	,18:36:32	,30-Nov-2013
522,	0.9,	76.9,	76,	0.31	,18:37:32	,30-Nov-2013
523,	1.0,	76.9,	76,	0.31	,18:38:32	,30-Nov-2013
524,	1.0,	76.9,	76,	0.31	,18:39:32	,30-Nov-2013
525,	0.9,	76.8,	76,	0.31	,18:40:32	,30-Nov-2013
526,	0.8,	76.8,	77,	0.31	,18:41:32	,30-Nov-2013
527,	1.1,	76.8,	77,	0.31	,18:42:32	,30-Nov-2013
528,	0.8,	76.7,	77,	0.31	,18:43:32	,30-Nov-2013
529,	1.0,	76.7,	77,	0.31	,18:44:32	,30-Nov-2013
530,	0.9,	76.7,	77,	0.31	,18:45:32	,30-Nov-2013
531,	1.1,	76.6,	77,	0.31	,18:46:32	,30-Nov-2013
532,	0.8,	76.6,	77,	0.31	,18:47:32	,30-Nov-2013
533,	0.9,	76.6,	77,	0.31	,18:48:32	,30-Nov-2013
534,	1.0,	76.6,	77,	0.31	,18:49:32	,30-Nov-2013
535,	1.1,	76.6,	77,	0.30	,18:50:32	,30-Nov-2013
536,	0.8,	76.6,	77,	0.31	,18:51:32	,30-Nov-2013
537,	1.0,	76.6,	77,	0.31	,18:52:32	,30-Nov-2013
538,	0.9,	76.5,	77,	0.31	,18:53:32	,30-Nov-2013
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541,	1.0,	76.5,	77,	0.31	,18:56:32	,30-Nov-2013
542,	0.9,	76.4,	77,	0.31	,18:57:32	,30-Nov-2013
543,	0.8,	76.4,	77,	0.31	,18:58:32	,30-Nov-2013
544,	0.9,	76.4,	77,	0.31	,18:59:32	,30-Nov-2013
545,	0.8,	76.4,	77,	0.31	,19:00:32	,30-Nov-2013
546,	0.9,	76.4,	77,	0.31	,19:01:32	,30-Nov-2013
547,	0.9,	76.3,	77,	0.31	,19:02:32	,30-Nov-2013
548,	0.7,	76.4,	77,	0.31	,19:03:32	,30-Nov-2013
549,	1.1,	76.3,	77,	0.31	,19:04:32	,30-Nov-2013
550,	0.9,	76.3,	77,	0.31	,19:05:32	,30-Nov-2013
551,	0.9,	76.3,	77,	0.31	,19:06:32	,30-Nov-2013

552,	0.9,	76.3,	77,	0.31	,19:07:32	,30-Nov-2013
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554,	0.7,	76.3,	78,	0.31	,19:09:32	,30-Nov-2013
555,	0.8,	76.2,	78,	0.31	,19:10:32	,30-Nov-2013
556,	0.9,	76.2,	78,	0.31	,19:11:32	,30-Nov-2013
557,	0.7,	76.2,	78,	0.31	,19:12:32	,30-Nov-2013
558,	0.7,	76.2,	78,	0.31	,19:13:32	,30-Nov-2013
559,	0.7,	76.2,	78,	0.31	,19:14:32	,30-Nov-2013
560,	1.0,	76.2,	78,	0.31	,19:15:32	,30-Nov-2013
561,	0.8,	76.2,	78,	0.31	,19:16:32	,30-Nov-2013
562,	0.8,	76.2,	78,	0.31	,19:17:32	,30-Nov-2013
563,	0.8,	76.2,	78,	0.31	,19:18:32	,30-Nov-2013
564,	1.0,	76.1,	78,	0.31	,19:19:32	,30-Nov-2013
565,	0.7,	76.1,	78,	0.32	,19:20:32	,30-Nov-2013
566,	0.8,	76.1,	78,	0.31	,19:21:32	,30-Nov-2013
567,	0.8,	76.1,	78,	0.31	,19:22:32	,30-Nov-2013
568,	1.0,	76.1,	78,	0.31	,19:23:32	,30-Nov-2013
569,	0.7,	76.1,	78,	0.31	,19:24:32	,30-Nov-2013
570,	0.7,	76.1,	78,	0.31	,19:25:32	,30-Nov-2013
571,	0.8,	76.1,	78,	0.31	,19:26:32	,30-Nov-2013
572,	0.9,	76.1,	78,	0.31	,19:27:32	,30-Nov-2013
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575,	0.6,	76.0,	78,	0.32	,19:30:32	,30-Nov-2013
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577,	0.6,	76.0,	78,	0.32	,19:32:32	,30-Nov-2013
578,	0.8,	76.0,	78,	0.31	,19:33:32	,30-Nov-2013
579,	0.6,	76.0,	78,	0.31	,19:34:32	,30-Nov-2013
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581,	0.6,	76.0,	78,	0.32	,19:36:32	,30-Nov-2013
582,	0.7,	76.0,	78,	0.31	,19:37:32	,30-Nov-2013
583,	0.8,	76.0,	78,	0.31	,19:38:32	,30-Nov-2013
584,	0.6,	76.0,	78,	0.32	,19:39:32	,30-Nov-2013
585,	0.6,	76.0,	78,	0.32	,19:40:32	,30-Nov-2013
586,	0.8,	76.0,	78,	0.31	,19:41:32	,30-Nov-2013
587,	0.7,	76.0,	78,	0.31	,19:42:32	,30-Nov-2013
588,	0.8,	76.0,	78,	0.31	,19:43:32	,30-Nov-2013
589,	0.5,	75.9,	78,	0.32	,19:44:32	,30-Nov-2013
590,	0.6,	75.9,	78,	0.32	,19:45:32	,30-Nov-2013
591,	0.6,	75.9,	78,	0.32	,19:46:32	,30-Nov-2013
592,	0.6,	75.8,	78,	0.32	,19:47:32	,30-Nov-2013
593,	0.6,	75.9,	78,	0.32	,19:48:32	,30-Nov-2013
594,	0.6,	75.8,	78,	0.32	,19:49:32	,30-Nov-2013
595,	0.6,	75.8,	78,	0.32	,19:50:32	,30-Nov-2013
596,	0.5,	75.8,	78,	0.32	,19:51:32	,30-Nov-2013
597,	0.4,	75.8,	78,	0.32	,19:52:32	,30-Nov-2013
598,	0.6,	75.8,	78,	0.32	,19:53:32	,30-Nov-2013
599,	0.5,	75.8,	79,	0.32	,19:54:32	,30-Nov-2013
600,	0.8,	75.7,	78,	0.31	,19:55:32	,30-Nov-2013
601,	0.7,	75.7,	78,	0.31	,19:56:32	,30-Nov-2013
602,	0.8,	75.8,	78,	0.31	,19:57:32	,30-Nov-2013
603,	0.6,	75.7,	78,	0.32	,19:58:32	,30-Nov-2013
604,	0.5,	75.7,	79,	0.32	,19:59:32	,30-Nov-2013
605,	0.6,	75.7,	79,	0.32	,20:00:32	,30-Nov-2013
606,	0.7,	75.7,	79,	0.31	,20:01:32	,30-Nov-2013
607,	0.8,	75.7,	79,	0.31	,20:02:32	,30-Nov-2013
608,	0.8,	75.7,	79,	0.31	,20:03:32	,30-Nov-2013
609,	0.9,	75.7,	79,	0.31	,20:04:32	,30-Nov-2013
610,	0.9,	75.7,	79,	0.31	,20:05:32	,30-Nov-2013
611,	0.8,	75.7,	79,	0.31	,20:06:32	,30-Nov-2013
612,	1.1,	75.7,	79,	0.31	,20:07:32	,30-Nov-2013
613,	1.0,	75.7,	79,	0.31	,20:08:32	,30-Nov-2013
614,	1.0,	75.7,	79,	0.31	,20:09:32	,30-Nov-2013
615,	1.1,	75.7,	79,	0.31	,20:10:32	,30-Nov-2013

616,	1.1,	75.7,	79,	0.30	,20:11:32	,30-Nov-2013
617,	0.9,	75.7,	79,	0.31	,20:12:32	,30-Nov-2013
618,	1.0,	75.7,	79,	0.31	,20:13:32	,30-Nov-2013
619,	0.9,	75.7,	79,	0.31	,20:14:32	,30-Nov-2013
620,	0.9,	75.7,	79,	0.31	,20:15:32	,30-Nov-2013
621,	1.1,	75.7,	79,	0.30	,20:16:32	,30-Nov-2013
622,	0.9,	75.7,	79,	0.31	,20:17:32	,30-Nov-2013
623,	1.1,	75.7,	79,	0.30	,20:18:32	,30-Nov-2013
624,	0.9,	75.7,	79,	0.31	,20:19:32	,30-Nov-2013
625,	1.0,	75.7,	79,	0.31	,20:20:32	,30-Nov-2013
626,	1.0,	75.7,	79,	0.31	,20:21:32	,30-Nov-2013
627,	0.9,	75.7,	79,	0.31	,20:22:32	,30-Nov-2013
628,	1.1,	75.7,	79,	0.30	,20:23:32	,30-Nov-2013
629,	1.0,	75.6,	79,	0.31	,20:24:32	,30-Nov-2013
630,	0.9,	75.7,	79,	0.31	,20:25:32	,30-Nov-2013
631,	1.0,	75.6,	79,	0.31	,20:26:32	,30-Nov-2013
632,	1.1,	75.6,	79,	0.30	,20:27:32	,30-Nov-2013
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634,	0.9,	75.6,	79,	0.31	,20:29:32	,30-Nov-2013
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636,	1.0,	75.6,	80,	0.31	,20:31:32	,30-Nov-2013
637,	1.1,	75.6,	80,	0.30	,20:32:32	,30-Nov-2013
638,	0.8,	75.5,	80,	0.31	,20:33:32	,30-Nov-2013
639,	1.0,	75.5,	80,	0.31	,20:34:32	,30-Nov-2013
640,	1.0,	75.5,	79,	0.31	,20:35:32	,30-Nov-2013
641,	1.0,	75.5,	79,	0.31	,20:36:32	,30-Nov-2013
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645,	0.9,	75.4,	80,	0.31	,20:40:32	,30-Nov-2013
646,	0.9,	75.4,	79,	0.31	,20:41:32	,30-Nov-2013
647,	0.9,	75.4,	79,	0.31	,20:42:32	,30-Nov-2013
648,	0.8,	75.4,	79,	0.31	,20:43:32	,30-Nov-2013
649,	1.0,	75.3,	79,	0.31	,20:44:32	,30-Nov-2013
650,	0.9,	75.3,	79,	0.31	,20:45:32	,30-Nov-2013
651,	0.8,	75.3,	79,	0.31	,20:46:32	,30-Nov-2013
652,	0.8,	75.3,	79,	0.31	,20:47:32	,30-Nov-2013
653,	1.0,	75.3,	79,	0.31	,20:48:32	,30-Nov-2013
654,	0.9,	75.3,	80,	0.31	,20:49:32	,30-Nov-2013
655,	1.0,	75.2,	80,	0.31	,20:50:32	,30-Nov-2013
656,	0.9,	75.2,	80,	0.31	,20:51:32	,30-Nov-2013
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662,	0.9,	75.1,	80,	0.31	,20:57:32	,30-Nov-2013
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664,	0.9,	75.1,	80,	0.31	,20:59:32	,30-Nov-2013
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668,	1.0,	74.9,	80,	0.31	,21:03:32	,30-Nov-2013
669,	1.0,	74.9,	80,	0.31	,21:04:32	,30-Nov-2013
670,	0.9,	74.8,	80,	0.31	,21:05:32	,30-Nov-2013
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673,	0.9,	74.8,	80,	0.31	,21:08:32	,30-Nov-2013
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677,	1.0,	74.7,	80,	0.31	,21:12:32	,30-Nov-2013
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686,	1.1,	74.5,	80,	0.30	,21:21:32	,30-Nov-2013
687,	1.2,	74.5,	80,	0.30	,21:22:32	,30-Nov-2013
688,	1.2,	74.5,	80,	0.30	,21:23:32	,30-Nov-2013
689,	1.2,	74.5,	80,	0.30	,21:24:32	,30-Nov-2013
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694,	1.3,	74.4,	80,	0.30	,21:29:32	,30-Nov-2013
695,	1.3,	74.4,	80,	0.30	,21:30:32	,30-Nov-2013
696,	1.4,	74.4,	80,	0.29	,21:31:32	,30-Nov-2013
697,	1.1,	74.4,	81,	0.30	,21:32:32	,30-Nov-2013
698,	1.0,	74.3,	80,	0.30	,21:33:32	,30-Nov-2013
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700,	1.0,	74.3,	81,	0.30	,21:35:32	,30-Nov-2013
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705,	1.0,	74.3,	81,	0.30	,21:40:32	,30-Nov-2013
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707,	1.1,	74.3,	81,	0.29	,21:42:32	,30-Nov-2013
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717,	0.9,	74.2,	81,	0.30	,21:52:32	,30-Nov-2013
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719,	1.0,	74.2,	81,	0.30	,21:54:32	,30-Nov-2013
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722,	1.0,	74.2,	81,	0.30	,21:57:32	,30-Nov-2013
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724,	1.0,	74.2,	81,	0.30	,21:59:32	,30-Nov-2013
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727,	0.7,	74.1,	81,	0.31	,22:02:32	,30-Nov-2013
728,	0.9,	74.0,	80,	0.30	,22:03:32	,30-Nov-2013
729,	0.9,	74.0,	81,	0.30	,22:04:32	,30-Nov-2013
730,	0.9,	74.0,	81,	0.30	,22:05:32	,30-Nov-2013
731,	0.8,	74.0,	80,	0.30	,22:06:32	,30-Nov-2013
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733,	0.9,	73.9,	80,	0.30	,22:08:32	,30-Nov-2013
734,	1.0,	73.9,	80,	0.30	,22:09:32	,30-Nov-2013
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810,	0.8,	73.3,	81,	0.27	,23:25:32	,30-Nov-2013
811,	1.0,	73.3,	81,	0.26	,23:26:32	,30-Nov-2013
812,	0.9,	73.3,	81,	0.27	,23:27:32	,30-Nov-2013
813,	0.8,	73.3,	81,	0.27	,23:28:32	,30-Nov-2013
814,	0.9,	73.3,	81,	0.27	,23:29:32	,30-Nov-2013
815,	1.1,	73.3,	81,	0.26	,23:30:32	,30-Nov-2013
816,	1.1,	73.3,	81,	0.26	,23:31:32	,30-Nov-2013
817,	1.1,	73.3,	82,	0.26	,23:32:32	,30-Nov-2013
818,	1.0,	73.3,	81,	0.26	,23:33:32	,30-Nov-2013
819,	1.0,	73.3,	82,	0.26	,23:34:32	,30-Nov-2013
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821,	1.1,	73.2,	81,	0.26	,23:36:32	,30-Nov-2013
822,	0.7,	73.2,	82,	0.28	,23:37:32	,30-Nov-2013
823,	0.7,	73.2,	81,	0.28	,23:38:32	,30-Nov-2013
824,	0.8,	73.2,	82,	0.28	,23:39:32	,30-Nov-2013
825,	0.7,	73.1,	81,	0.28	,23:40:32	,30-Nov-2013
826,	0.8,	73.1,	81,	0.28	,23:41:32	,30-Nov-2013
827,	0.8,	73.1,	81,	0.27	,23:42:32	,30-Nov-2013
828,	0.6,	73.1,	81,	0.29	,23:43:32	,30-Nov-2013
829,	0.5,	73.1,	81,	0.29	,23:44:32	,30-Nov-2013
830,	0.9,	73.0,	81,	0.27	,23:45:32	,30-Nov-2013
831,	0.6,	73.0,	81,	0.28	,23:46:32	,30-Nov-2013
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833,	0.6,	73.0,	81,	0.29	,23:48:32	,30-Nov-2013
834,	0.9,	73.0,	81,	0.27	,23:49:32	,30-Nov-2013
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836,	0.8,	73.0,	81,	0.27	,23:51:32	,30-Nov-2013
837,	0.8,	73.0,	81,	0.27	,23:52:32	,30-Nov-2013
838,	0.8,	73.0,	81,	0.27	,23:53:32	,30-Nov-2013
839,	0.6,	73.0,	81,	0.29	,23:54:32	,30-Nov-2013
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843,	0.7,	73.0,	81,	0.28	,23:58:32	,30-Nov-2013
844,	0.8,	73.0,	81,	0.27	,23:59:32	,30-Nov-2013
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847,	0.8,	73.0,	81,	0.27	,00:02:32	,01-Dec-2013
848,	0.9,	73.0,	81,	0.27	,00:03:32	,01-Dec-2013
849,	0.8,	73.0,	81,	0.28	,00:04:32	,01-Dec-2013
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868,	0.7,	73.0,	82,	0.28	,00:23:32	,01-Dec-2013
869,	0.6,	73.0,	82,	0.29	,00:24:32	,01-Dec-2013
870,	0.6,	73.0,	82,	0.28	,00:25:32	,01-Dec-2013
871,	0.6,	73.0,	82,	0.28	,00:26:32	,01-Dec-2013

872,	0.7,	73.0,	82,	0.28	,00:27:32	,01-Dec-2013
873,	0.9,	73.0,	82,	0.27	,00:28:32	,01-Dec-2013
874,	0.8,	73.0,	82,	0.27	,00:29:32	,01-Dec-2013
875,	0.8,	73.0,	82,	0.27	,00:30:32	,01-Dec-2013
876,	0.7,	73.1,	82,	0.28	,00:31:32	,01-Dec-2013
877,	0.7,	73.0,	82,	0.28	,00:32:32	,01-Dec-2013
878,	0.8,	73.0,	81,	0.28	,00:33:32	,01-Dec-2013
879,	0.9,	73.1,	82,	0.27	,00:34:32	,01-Dec-2013
880,	0.8,	73.0,	82,	0.27	,00:35:32	,01-Dec-2013
881,	0.7,	73.1,	82,	0.28	,00:36:32	,01-Dec-2013
882,	0.7,	73.1,	81,	0.28	,00:37:32	,01-Dec-2013
883,	0.7,	73.0,	81,	0.28	,00:38:32	,01-Dec-2013
884,	0.6,	73.1,	81,	0.28	,00:39:32	,01-Dec-2013
885,	0.6,	73.1,	81,	0.28	,00:40:32	,01-Dec-2013
886,	0.9,	73.1,	82,	0.26	,00:41:32	,01-Dec-2013
887,	0.7,	73.0,	81,	0.28	,00:42:32	,01-Dec-2013
888,	0.9,	73.1,	81,	0.27	,00:43:32	,01-Dec-2013
889,	0.8,	73.1,	82,	0.28	,00:44:32	,01-Dec-2013
890,	0.9,	73.1,	81,	0.27	,00:45:32	,01-Dec-2013
891,	0.9,	73.1,	81,	0.27	,00:46:32	,01-Dec-2013
892,	0.8,	73.1,	81,	0.28	,00:47:32	,01-Dec-2013
893,	1.1,	73.1,	81,	0.26	,00:48:32	,01-Dec-2013
894,	0.8,	73.1,	81,	0.28	,00:49:32	,01-Dec-2013
895,	0.9,	73.1,	81,	0.27	,00:50:32	,01-Dec-2013
896,	0.9,	73.1,	82,	0.27	,00:51:32	,01-Dec-2013
897,	0.8,	73.1,	81,	0.28	,00:52:32	,01-Dec-2013
898,	0.9,	73.0,	81,	0.27	,00:53:32	,01-Dec-2013
899,	1.0,	73.1,	82,	0.27	,00:54:32	,01-Dec-2013
900,	0.8,	73.1,	82,	0.27	,00:55:32	,01-Dec-2013
901,	1.0,	73.0,	81,	0.26	,00:56:32	,01-Dec-2013
902,	1.1,	73.0,	82,	0.26	,00:57:32	,01-Dec-2013
903,	0.9,	73.0,	81,	0.27	,00:58:32	,01-Dec-2013
904,	0.9,	73.0,	82,	0.27	,00:59:32	,01-Dec-2013
905,	0.9,	73.0,	82,	0.27	,01:00:32	,01-Dec-2013
906,	0.6,	73.0,	81,	0.29	,01:01:32	,01-Dec-2013
907,	0.7,	73.0,	82,	0.28	,01:02:32	,01-Dec-2013
908,	0.7,	73.0,	82,	0.28	,01:03:32	,01-Dec-2013
909,	0.8,	73.0,	82,	0.27	,01:04:32	,01-Dec-2013
910,	0.7,	73.0,	81,	0.28	,01:05:32	,01-Dec-2013
911,	0.8,	73.0,	82,	0.27	,01:06:32	,01-Dec-2013
912,	0.8,	73.0,	81,	0.27	,01:07:32	,01-Dec-2013
913,	0.8,	73.0,	82,	0.27	,01:08:32	,01-Dec-2013
914,	1.0,	73.0,	81,	0.26	,01:09:32	,01-Dec-2013
915,	0.8,	73.0,	82,	0.27	,01:10:32	,01-Dec-2013
916,	0.7,	73.0,	82,	0.28	,01:11:32	,01-Dec-2013
917,	0.7,	73.0,	82,	0.28	,01:12:32	,01-Dec-2013
918,	1.0,	73.0,	82,	0.27	,01:13:32	,01-Dec-2013
919,	1.1,	73.0,	82,	0.26	,01:14:32	,01-Dec-2013
920,	0.7,	73.0,	82,	0.28	,01:15:32	,01-Dec-2013
921,	0.7,	73.0,	82,	0.28	,01:16:32	,01-Dec-2013
922,	0.7,	73.0,	82,	0.28	,01:17:32	,01-Dec-2013
923,	0.8,	72.9,	82,	0.27	,01:18:32	,01-Dec-2013
924,	0.9,	72.9,	82,	0.27	,01:19:32	,01-Dec-2013
925,	0.8,	72.9,	82,	0.27	,01:20:32	,01-Dec-2013
926,	0.8,	72.9,	82,	0.27	,01:21:32	,01-Dec-2013
927,	0.8,	72.8,	82,	0.27	,01:22:32	,01-Dec-2013
928,	0.8,	72.8,	82,	0.27	,01:23:32	,01-Dec-2013
929,	0.8,	72.8,	82,	0.27	,01:24:32	,01-Dec-2013
930,	1.1,	72.8,	82,	0.26	,01:25:32	,01-Dec-2013
931,	0.8,	72.8,	82,	0.27	,01:26:32	,01-Dec-2013
932,	0.9,	72.8,	82,	0.27	,01:27:32	,01-Dec-2013
933,	0.8,	72.8,	82,	0.27	,01:28:32	,01-Dec-2013
934,	1.0,	72.8,	82,	0.26	,01:29:32	,01-Dec-2013
935,	0.9,	72.8,	82,	0.27	,01:30:32	,01-Dec-2013

936,	1.0,	72.7,	82,	0.26	,01:31:32	,01-Dec-2013
937,	1.0,	72.7,	82,	0.26	,01:32:32	,01-Dec-2013
938,	0.9,	72.7,	82,	0.27	,01:33:32	,01-Dec-2013
939,	0.8,	72.7,	82,	0.27	,01:34:32	,01-Dec-2013
940,	0.9,	72.6,	82,	0.27	,01:35:32	,01-Dec-2013
941,	1.1,	72.6,	82,	0.26	,01:36:32	,01-Dec-2013
942,	0.9,	72.6,	82,	0.27	,01:37:32	,01-Dec-2013
943,	0.8,	72.6,	82,	0.27	,01:38:32	,01-Dec-2013
944,	0.8,	72.6,	82,	0.27	,01:39:32	,01-Dec-2013
945,	0.9,	72.6,	82,	0.27	,01:40:32	,01-Dec-2013
946,	0.8,	72.6,	82,	0.27	,01:41:32	,01-Dec-2013
947,	0.8,	72.5,	82,	0.27	,01:42:32	,01-Dec-2013
948,	0.9,	72.5,	82,	0.26	,01:43:32	,01-Dec-2013
949,	0.7,	72.5,	82,	0.27	,01:44:32	,01-Dec-2013
950,	0.9,	72.5,	82,	0.27	,01:45:32	,01-Dec-2013
951,	1.0,	72.5,	82,	0.26	,01:46:32	,01-Dec-2013
952,	1.0,	72.4,	82,	0.26	,01:47:32	,01-Dec-2013
953,	1.1,	72.4,	82,	0.26	,01:48:32	,01-Dec-2013
954,	0.9,	72.4,	82,	0.27	,01:49:32	,01-Dec-2013
955,	1.0,	72.4,	82,	0.26	,01:50:32	,01-Dec-2013
956,	0.9,	72.4,	82,	0.27	,01:51:32	,01-Dec-2013
957,	1.1,	72.3,	82,	0.26	,01:52:32	,01-Dec-2013
958,	0.9,	72.3,	82,	0.27	,01:53:32	,01-Dec-2013
959,	1.0,	72.3,	82,	0.26	,01:54:32	,01-Dec-2013
960,	0.9,	72.2,	82,	0.27	,01:55:32	,01-Dec-2013
961,	1.0,	72.2,	82,	0.26	,01:56:32	,01-Dec-2013
962,	1.0,	72.1,	82,	0.26	,01:57:32	,01-Dec-2013
963,	1.0,	72.1,	82,	0.26	,01:58:32	,01-Dec-2013
964,	1.1,	72.1,	82,	0.26	,01:59:32	,01-Dec-2013
965,	1.0,	72.1,	82,	0.26	,02:00:32	,01-Dec-2013
966,	0.9,	72.1,	82,	0.26	,02:01:32	,01-Dec-2013
967,	1.1,	72.1,	82,	0.26	,02:02:32	,01-Dec-2013
968,	0.9,	72.1,	82,	0.27	,02:03:32	,01-Dec-2013
969,	1.2,	72.0,	82,	0.25	,02:04:32	,01-Dec-2013
970,	1.0,	72.0,	83,	0.26	,02:05:32	,01-Dec-2013
971,	1.1,	72.0,	82,	0.25	,02:06:32	,01-Dec-2013
972,	0.8,	72.0,	83,	0.27	,02:07:32	,01-Dec-2013
973,	1.1,	72.0,	83,	0.26	,02:08:32	,01-Dec-2013
974,	1.1,	71.9,	83,	0.25	,02:09:32	,01-Dec-2013
975,	1.1,	71.9,	83,	0.26	,02:10:32	,01-Dec-2013
976,	1.0,	71.9,	83,	0.26	,02:11:32	,01-Dec-2013
977,	1.1,	71.9,	83,	0.26	,02:12:32	,01-Dec-2013
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979,	1.2,	71.9,	83,	0.25	,02:14:32	,01-Dec-2013
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982,	1.1,	71.9,	83,	0.25	,02:17:32	,01-Dec-2013
983,	1.2,	71.9,	83,	0.25	,02:18:32	,01-Dec-2013
984,	1.3,	71.9,	83,	0.25	,02:19:32	,01-Dec-2013
985,	1.2,	71.9,	83,	0.25	,02:20:32	,01-Dec-2013
986,	0.9,	71.9,	83,	0.26	,02:21:32	,01-Dec-2013
987,	1.1,	71.9,	83,	0.25	,02:22:32	,01-Dec-2013
988,	0.9,	71.9,	83,	0.26	,02:23:32	,01-Dec-2013
989,	1.0,	71.9,	83,	0.26	,02:24:32	,01-Dec-2013
990,	1.5,	71.9,	83,	0.24	,02:25:32	,01-Dec-2013
991,	1.5,	71.9,	83,	0.24	,02:26:32	,01-Dec-2013
992,	1.4,	71.9,	83,	0.24	,02:27:32	,01-Dec-2013
993,	1.1,	71.9,	83,	0.25	,02:28:32	,01-Dec-2013
994,	1.1,	71.9,	83,	0.25	,02:29:32	,01-Dec-2013
995,	1.1,	71.9,	83,	0.25	,02:30:32	,01-Dec-2013
996,	1.2,	71.9,	83,	0.25	,02:31:32	,01-Dec-2013
997,	1.6,	71.9,	83,	0.23	,02:32:32	,01-Dec-2013
998,	1.2,	71.9,	83,	0.25	,02:33:32	,01-Dec-2013
999,	1.4,	71.9,	83,	0.24	,02:34:32	,01-Dec-2013

1000,	1.3,	71.9,	83,	0.24	,02:35:32	,01-Dec-2013
1001,	0.9,	71.9,	83,	0.26	,02:36:32	,01-Dec-2013
1002,	1.3,	71.9,	83,	0.25	,02:37:32	,01-Dec-2013
1003,	1.0,	71.9,	83,	0.26	,02:38:32	,01-Dec-2013
1004,	1.0,	71.9,	83,	0.26	,02:39:32	,01-Dec-2013
1005,	1.1,	71.8,	83,	0.26	,02:40:32	,01-Dec-2013
1006,	1.1,	71.8,	83,	0.25	,02:41:32	,01-Dec-2013
1007,	1.2,	71.8,	83,	0.25	,02:42:32	,01-Dec-2013
1008,	1.3,	71.8,	83,	0.25	,02:43:32	,01-Dec-2013
1009,	1.4,	71.8,	83,	0.24	,02:44:32	,01-Dec-2013
1010,	1.2,	71.8,	83,	0.25	,02:45:32	,01-Dec-2013
1011,	1.1,	71.8,	83,	0.25	,02:46:32	,01-Dec-2013
1012,	1.1,	71.7,	83,	0.25	,02:47:32	,01-Dec-2013
1013,	1.1,	71.8,	83,	0.25	,02:48:32	,01-Dec-2013
1014,	1.1,	71.7,	83,	0.25	,02:49:32	,01-Dec-2013
1015,	1.1,	71.7,	83,	0.25	,02:50:32	,01-Dec-2013
1016,	1.0,	71.7,	83,	0.26	,02:51:32	,01-Dec-2013
1017,	1.1,	71.7,	83,	0.25	,02:52:32	,01-Dec-2013
1018,	1.2,	71.7,	83,	0.25	,02:53:32	,01-Dec-2013
1019,	1.0,	71.7,	83,	0.26	,02:54:32	,01-Dec-2013
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1021,	0.9,	71.7,	83,	0.26	,02:56:32	,01-Dec-2013
1022,	1.0,	71.7,	83,	0.26	,02:57:32	,01-Dec-2013
1023,	1.1,	71.7,	83,	0.25	,02:58:32	,01-Dec-2013
1024,	1.0,	71.6,	83,	0.26	,02:59:32	,01-Dec-2013
1025,	0.8,	71.6,	83,	0.27	,03:00:32	,01-Dec-2013
1026,	1.1,	71.6,	83,	0.26	,03:01:32	,01-Dec-2013
1027,	1.0,	71.6,	83,	0.26	,03:02:32	,01-Dec-2013
1028,	1.2,	71.5,	83,	0.25	,03:03:32	,01-Dec-2013
1029,	1.1,	71.5,	83,	0.25	,03:04:32	,01-Dec-2013
1030,	1.1,	71.5,	83,	0.25	,03:05:32	,01-Dec-2013
1031,	1.1,	71.5,	83,	0.25	,03:06:32	,01-Dec-2013
1032,	1.1,	71.5,	83,	0.25	,03:07:32	,01-Dec-2013
1033,	1.3,	71.5,	83,	0.25	,03:08:32	,01-Dec-2013
1034,	1.2,	71.5,	83,	0.25	,03:09:32	,01-Dec-2013
1035,	1.1,	71.5,	83,	0.25	,03:10:32	,01-Dec-2013
1036,	1.3,	71.4,	83,	0.25	,03:11:32	,01-Dec-2013
1037,	1.2,	71.4,	83,	0.25	,03:12:32	,01-Dec-2013
1038,	1.3,	71.4,	83,	0.24	,03:13:32	,01-Dec-2013
1039,	1.1,	71.4,	83,	0.25	,03:14:32	,01-Dec-2013
1040,	1.2,	71.3,	83,	0.25	,03:15:32	,01-Dec-2013
1041,	1.1,	71.4,	83,	0.25	,03:16:32	,01-Dec-2013
1042,	1.3,	71.4,	83,	0.25	,03:17:32	,01-Dec-2013
1043,	1.1,	71.3,	83,	0.26	,03:18:32	,01-Dec-2013
1044,	1.2,	71.3,	83,	0.25	,03:19:32	,01-Dec-2013
1045,	1.3,	71.3,	83,	0.25	,03:20:32	,01-Dec-2013
1046,	1.2,	71.3,	83,	0.25	,03:21:32	,01-Dec-2013
1047,	1.3,	71.2,	83,	0.24	,03:22:32	,01-Dec-2013
1048,	1.3,	71.2,	83,	0.24	,03:23:32	,01-Dec-2013
1049,	1.2,	71.2,	83,	0.25	,03:24:32	,01-Dec-2013
1050,	1.4,	71.2,	83,	0.24	,03:25:32	,01-Dec-2013
1051,	1.4,	71.2,	83,	0.24	,03:26:32	,01-Dec-2013
1052,	1.5,	71.2,	83,	0.24	,03:27:32	,01-Dec-2013
1053,	1.5,	71.2,	83,	0.24	,03:28:32	,01-Dec-2013
1054,	1.5,	71.2,	83,	0.24	,03:29:32	,01-Dec-2013
1055,	1.9,	71.2,	83,	0.23	,03:30:32	,01-Dec-2013
1056,	1.9,	71.2,	83,	0.23	,03:31:32	,01-Dec-2013
1057,	1.7,	71.2,	83,	0.23	,03:32:32	,01-Dec-2013
1058,	1.8,	71.2,	84,	0.23	,03:33:32	,01-Dec-2013
1059,	1.6,	71.2,	84,	0.24	,03:34:32	,01-Dec-2013
1060,	1.7,	71.2,	84,	0.23	,03:35:32	,01-Dec-2013
1061,	1.6,	71.2,	84,	0.24	,03:36:32	,01-Dec-2013
1062,	1.5,	71.2,	84,	0.24	,03:37:32	,01-Dec-2013
1063,	1.4,	71.2,	84,	0.24	,03:38:32	,01-Dec-2013

1064,	1.5,	71.2,	84,	0.24	,03:39:32	,01-Dec-2013
1065,	1.6,	71.2,	84,	0.24	,03:40:32	,01-Dec-2013
1066,	1.7,	71.2,	84,	0.23	,03:41:32	,01-Dec-2013
1067,	1.8,	71.2,	84,	0.23	,03:42:32	,01-Dec-2013
1068,	2.0,	71.2,	84,	0.23	,03:43:32	,01-Dec-2013
1069,	1.7,	71.2,	84,	0.23	,03:44:32	,01-Dec-2013
1070,	1.8,	71.2,	84,	0.23	,03:45:32	,01-Dec-2013
1071,	1.7,	71.2,	84,	0.23	,03:46:32	,01-Dec-2013
1072,	2.0,	71.2,	84,	0.22	,03:47:32	,01-Dec-2013
1073,	1.8,	71.2,	84,	0.23	,03:48:32	,01-Dec-2013
1074,	1.5,	71.2,	84,	0.24	,03:49:32	,01-Dec-2013
1075,	1.5,	71.2,	84,	0.24	,03:50:32	,01-Dec-2013
1076,	1.5,	71.2,	84,	0.24	,03:51:32	,01-Dec-2013
1077,	1.5,	71.2,	84,	0.24	,03:52:32	,01-Dec-2013
1078,	1.8,	71.2,	84,	0.23	,03:53:32	,01-Dec-2013
1079,	1.8,	71.2,	84,	0.23	,03:54:32	,01-Dec-2013
1080,	1.6,	71.2,	84,	0.23	,03:55:32	,01-Dec-2013
1081,	1.6,	71.2,	84,	0.24	,03:56:32	,01-Dec-2013
1082,	1.8,	71.2,	84,	0.23	,03:57:32	,01-Dec-2013
1083,	1.8,	71.2,	84,	0.23	,03:58:32	,01-Dec-2013
1084,	1.6,	71.2,	84,	0.24	,03:59:32	,01-Dec-2013
1085,	1.5,	71.3,	84,	0.24	,04:00:32	,01-Dec-2013
1086,	1.4,	71.3,	84,	0.25	,04:01:32	,01-Dec-2013
1087,	1.6,	71.2,	84,	0.24	,04:02:32	,01-Dec-2013
1088,	1.5,	71.2,	84,	0.24	,04:03:32	,01-Dec-2013
1089,	1.5,	71.2,	84,	0.24	,04:04:32	,01-Dec-2013
1090,	1.6,	71.2,	84,	0.24	,04:05:32	,01-Dec-2013
1091,	1.5,	71.2,	84,	0.24	,04:06:32	,01-Dec-2013
1092,	1.5,	71.2,	84,	0.24	,04:07:32	,01-Dec-2013
1093,	1.6,	71.2,	84,	0.24	,04:08:32	,01-Dec-2013
1094,	1.6,	71.2,	84,	0.24	,04:09:32	,01-Dec-2013
1095,	1.7,	71.2,	84,	0.24	,04:10:32	,01-Dec-2013
1096,	2.0,	71.2,	84,	0.23	,04:11:32	,01-Dec-2013
1097,	1.8,	71.2,	84,	0.23	,04:12:32	,01-Dec-2013
1098,	1.9,	71.2,	84,	0.23	,04:13:32	,01-Dec-2013
1099,	1.9,	71.2,	84,	0.23	,04:14:32	,01-Dec-2013
1100,	1.9,	71.2,	84,	0.23	,04:15:32	,01-Dec-2013
1101,	1.6,	71.2,	84,	0.24	,04:16:32	,01-Dec-2013
1102,	1.6,	71.2,	84,	0.24	,04:17:32	,01-Dec-2013
1103,	1.7,	71.2,	84,	0.24	,04:18:32	,01-Dec-2013
1104,	1.6,	71.2,	84,	0.24	,04:19:32	,01-Dec-2013
1105,	1.5,	71.2,	84,	0.24	,04:20:32	,01-Dec-2013
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1109,	1.3,	71.2,	84,	0.25	,04:24:32	,01-Dec-2013
1110,	1.4,	71.1,	84,	0.25	,04:25:32	,01-Dec-2013
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1115,	1.6,	71.1,	84,	0.24	,04:30:32	,01-Dec-2013
1116,	1.4,	71.1,	84,	0.24	,04:31:32	,01-Dec-2013
1117,	1.7,	71.1,	84,	0.23	,04:32:32	,01-Dec-2013
1118,	1.8,	71.1,	84,	0.23	,04:33:32	,01-Dec-2013
1119,	1.6,	71.1,	84,	0.24	,04:34:32	,01-Dec-2013
1120,	2.3,	71.1,	84,	0.22	,04:35:32	,01-Dec-2013
1121,	2.5,	71.1,	84,	0.21	,04:36:32	,01-Dec-2013
1122,	2.2,	71.1,	84,	0.22	,04:37:32	,01-Dec-2013
1123,	1.9,	71.1,	84,	0.22	,04:38:32	,01-Dec-2013
1124,	2.0,	71.0,	84,	0.23	,04:39:32	,01-Dec-2013
1125,	2.1,	71.1,	84,	0.22	,04:40:32	,01-Dec-2013
1126,	2.2,	71.1,	84,	0.22	,04:41:32	,01-Dec-2013
1127,	2.1,	71.0,	84,	0.23	,04:42:32	,01-Dec-2013

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1129,	2.1,	71.0,	84,	0.23	,04:44:32	,01-Dec-2013
1130,	1.7,	71.0,	84,	0.24	,04:45:32	,01-Dec-2013
1131,	1.5,	71.0,	84,	0.25	,04:46:32	,01-Dec-2013
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1133,	1.7,	71.0,	84,	0.23	,04:48:32	,01-Dec-2013
1134,	1.8,	71.0,	84,	0.23	,04:49:32	,01-Dec-2013
1135,	1.7,	71.0,	84,	0.24	,04:50:32	,01-Dec-2013
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1139,	1.8,	71.0,	84,	0.23	,04:54:32	,01-Dec-2013
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1141,	1.7,	71.0,	85,	0.24	,04:56:32	,01-Dec-2013
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1143,	1.7,	71.0,	85,	0.23	,04:58:32	,01-Dec-2013
1144,	1.6,	71.0,	85,	0.24	,04:59:32	,01-Dec-2013
1145,	1.6,	71.0,	84,	0.24	,05:00:32	,01-Dec-2013
1146,	1.6,	71.1,	85,	0.24	,05:01:32	,01-Dec-2013
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1165,	1.6,	71.1,	85,	0.25	,05:20:32	,01-Dec-2013
1166,	1.3,	71.1,	85,	0.25	,05:21:32	,01-Dec-2013
1167,	1.8,	71.1,	85,	0.24	,05:22:32	,01-Dec-2013
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1173,	1.5,	71.1,	85,	0.24	,05:28:32	,01-Dec-2013
1174,	1.5,	71.1,	85,	0.24	,05:29:32	,01-Dec-2013
1175,	1.6,	71.1,	85,	0.24	,05:30:32	,01-Dec-2013
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1178,	1.7,	71.1,	85,	0.23	,05:33:32	,01-Dec-2013
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1189,	1.3,	71.0,	85,	0.24	,05:44:32	,01-Dec-2013
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1197,	1.4,	71.0,	85,	0.25	,05:52:32	,01-Dec-2013
1198,	1.5,	71.0,	85,	0.24	,05:53:32	,01-Dec-2013
1199,	1.6,	71.0,	85,	0.24	,05:54:32	,01-Dec-2013
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1202,	1.3,	71.0,	85,	0.25	,05:57:32	,01-Dec-2013
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1207,	1.5,	70.9,	85,	0.25	,06:02:32	,01-Dec-2013
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1209,	1.1,	70.9,	85,	0.27	,06:04:32	,01-Dec-2013
1210,	1.3,	70.9,	85,	0.26	,06:05:32	,01-Dec-2013
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1212,	1.4,	70.9,	85,	0.26	,06:07:32	,01-Dec-2013
1213,	1.7,	70.9,	85,	0.25	,06:08:32	,01-Dec-2013
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1215,	2.2,	70.8,	84,	0.27	,06:10:32	,01-Dec-2013
1216,	2.1,	70.8,	85,	0.26	,06:11:32	,01-Dec-2013
1217,	1.6,	70.8,	84,	0.26	,06:12:32	,01-Dec-2013
1218,	1.4,	70.8,	84,	0.26	,06:13:32	,01-Dec-2013
1219,	1.2,	70.8,	85,	0.27	,06:14:32	,01-Dec-2013
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1223,	1.5,	70.8,	85,	0.25	,06:18:32	,01-Dec-2013
1224,	1.7,	70.8,	85,	0.25	,06:19:32	,01-Dec-2013
1225,	1.7,	70.8,	85,	0.25	,06:20:32	,01-Dec-2013
1226,	1.7,	70.8,	85,	0.25	,06:21:32	,01-Dec-2013
1227,	1.7,	70.8,	85,	0.25	,06:22:32	,01-Dec-2013
1228,	1.9,	70.8,	85,	0.24	,06:23:32	,01-Dec-2013
1229,	1.6,	70.8,	85,	0.25	,06:24:32	,01-Dec-2013
1230,	1.5,	70.8,	85,	0.25	,06:25:32	,01-Dec-2013
1231,	1.4,	70.8,	85,	0.25	,06:26:32	,01-Dec-2013
1232,	1.5,	70.7,	85,	0.25	,06:27:32	,01-Dec-2013
1233,	1.6,	70.7,	85,	0.25	,06:28:32	,01-Dec-2013
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1235,	1.4,	70.7,	85,	0.26	,06:30:32	,01-Dec-2013
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1237,	1.4,	70.7,	85,	0.25	,06:32:32	,01-Dec-2013
1238,	1.6,	70.7,	85,	0.25	,06:33:32	,01-Dec-2013
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1240,	1.4,	70.7,	85,	0.26	,06:35:32	,01-Dec-2013
1241,	1.4,	70.7,	85,	0.26	,06:36:32	,01-Dec-2013
1242,	1.5,	70.6,	85,	0.25	,06:37:32	,01-Dec-2013
1243,	1.2,	70.6,	85,	0.26	,06:38:32	,01-Dec-2013
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1245,	1.5,	70.6,	85,	0.25	,06:40:32	,01-Dec-2013
1246,	1.7,	70.6,	85,	0.25	,06:41:32	,01-Dec-2013
1247,	1.4,	70.6,	85,	0.26	,06:42:32	,01-Dec-2013
1248,	1.4,	70.6,	85,	0.26	,06:43:32	,01-Dec-2013
1249,	1.4,	70.6,	85,	0.26	,06:44:32	,01-Dec-2013
1250,	1.3,	70.6,	85,	0.26	,06:45:32	,01-Dec-2013
1251,	1.4,	70.6,	85,	0.26	,06:46:32	,01-Dec-2013
1252,	1.3,	70.6,	85,	0.26	,06:47:32	,01-Dec-2013
1253,	1.5,	70.5,	85,	0.25	,06:48:32	,01-Dec-2013
1254,	1.6,	70.5,	85,	0.25	,06:49:32	,01-Dec-2013
1255,	1.5,	70.5,	85,	0.25	,06:50:32	,01-Dec-2013

1256,	1.7,	70.5,	85,	0.25	,06:51:32	,01-Dec-2013
1257,	1.5,	70.5,	85,	0.25	,06:52:32	,01-Dec-2013
1258,	1.6,	70.5,	85,	0.25	,06:53:32	,01-Dec-2013
1259,	1.6,	70.5,	85,	0.25	,06:54:32	,01-Dec-2013
1260,	1.6,	70.5,	85,	0.25	,06:55:32	,01-Dec-2013
1261,	1.6,	70.5,	85,	0.25	,06:56:32	,01-Dec-2013
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1268,	1.6,	70.5,	85,	0.24	,07:03:32	,01-Dec-2013
1269,	1.7,	70.5,	85,	0.24	,07:04:32	,01-Dec-2013
1270,	1.7,	70.5,	85,	0.24	,07:05:32	,01-Dec-2013
1271,	1.6,	70.5,	85,	0.24	,07:06:32	,01-Dec-2013
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1273,	1.7,	70.5,	85,	0.24	,07:08:32	,01-Dec-2013
1274,	1.5,	70.5,	85,	0.25	,07:09:32	,01-Dec-2013
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1276,	1.7,	70.5,	85,	0.24	,07:11:32	,01-Dec-2013
1277,	2.0,	70.5,	85,	0.23	,07:12:32	,01-Dec-2013
1278,	1.9,	70.5,	85,	0.23	,07:13:32	,01-Dec-2013
1279,	1.8,	70.6,	86,	0.23	,07:14:32	,01-Dec-2013
1280,	1.8,	70.6,	85,	0.23	,07:15:32	,01-Dec-2013
1281,	1.8,	70.6,	86,	0.23	,07:16:32	,01-Dec-2013
1282,	1.6,	70.6,	86,	0.24	,07:17:32	,01-Dec-2013
1283,	1.7,	70.6,	86,	0.24	,07:18:32	,01-Dec-2013
1284,	1.4,	70.6,	86,	0.25	,07:19:32	,01-Dec-2013
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1286,	1.5,	70.7,	86,	0.25	,07:21:32	,01-Dec-2013
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1296,	1.4,	70.8,	86,	0.25	,07:31:32	,01-Dec-2013
1297,	1.9,	70.8,	86,	0.23	,07:32:32	,01-Dec-2013
1298,	1.6,	70.8,	86,	0.24	,07:33:32	,01-Dec-2013
1299,	1.7,	70.8,	86,	0.24	,07:34:32	,01-Dec-2013
1300,	1.4,	70.8,	86,	0.25	,07:35:32	,01-Dec-2013
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1303,	1.6,	70.9,	86,	0.24	,07:38:32	,01-Dec-2013
1304,	1.5,	70.9,	86,	0.24	,07:39:32	,01-Dec-2013
1305,	1.6,	70.9,	86,	0.24	,07:40:32	,01-Dec-2013
1306,	1.7,	70.9,	86,	0.23	,07:41:32	,01-Dec-2013
1307,	1.5,	70.9,	86,	0.24	,07:42:32	,01-Dec-2013
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1314,	1.7,	71.1,	86,	0.24	,07:49:32	,01-Dec-2013
1315,	1.5,	71.2,	86,	0.24	,07:50:32	,01-Dec-2013
1316,	1.6,	71.2,	86,	0.24	,07:51:32	,01-Dec-2013
1317,	1.4,	71.4,	86,	0.25	,07:52:32	,01-Dec-2013
1318,	1.4,	71.5,	86,	0.25	,07:53:32	,01-Dec-2013
1319,	1.1,	71.6,	86,	0.27	,07:54:32	,01-Dec-2013

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1321,	1.2,	71.8,	86,	0.27	,07:56:32	,01-Dec-2013
1322,	1.3,	71.8,	86,	0.26	,07:57:32	,01-Dec-2013
1323,	1.1,	71.9,	86,	0.27	,07:58:32	,01-Dec-2013
1324,	1.3,	72.0,	86,	0.26	,07:59:32	,01-Dec-2013
1325,	1.3,	72.1,	86,	0.26	,08:00:32	,01-Dec-2013
1326,	1.2,	72.1,	86,	0.26	,08:01:32	,01-Dec-2013
1327,	1.1,	72.3,	86,	0.27	,08:02:32	,01-Dec-2013
1328,	1.0,	72.4,	86,	0.27	,08:03:32	,01-Dec-2013
1329,	1.3,	72.5,	85,	0.26	,08:04:32	,01-Dec-2013
1330,	1.1,	72.6,	85,	0.27	,08:05:32	,01-Dec-2013
1331,	1.1,	72.7,	85,	0.27	,08:06:32	,01-Dec-2013
1332,	1.1,	72.8,	85,	0.26	,08:07:32	,01-Dec-2013
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1336,	1.1,	73.5,	85,	0.28	,08:11:32	,01-Dec-2013
1337,	1.0,	73.7,	85,	0.28	,08:12:32	,01-Dec-2013
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1339,	0.9,	74.1,	85,	0.28	,08:14:32	,01-Dec-2013
1340,	1.0,	74.3,	85,	0.28	,08:15:32	,01-Dec-2013
1341,	0.9,	74.6,	85,	0.28	,08:16:32	,01-Dec-2013
1342,	0.9,	74.8,	85,	0.28	,08:17:32	,01-Dec-2013
1343,	1.0,	75.1,	85,	0.28	,08:18:32	,01-Dec-2013
1344,	1.0,	75.3,	85,	0.28	,08:19:32	,01-Dec-2013
1345,	0.9,	75.6,	84,	0.29	,08:20:32	,01-Dec-2013
1346,	0.7,	75.9,	84,	0.30	,08:21:32	,01-Dec-2013
1347,	0.7,	76.2,	84,	0.29	,08:22:32	,01-Dec-2013
1348,	0.8,	76.4,	84,	0.29	,08:23:32	,01-Dec-2013
1349,	0.8,	76.6,	84,	0.29	,08:24:32	,01-Dec-2013
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1352,	0.8,	77.3,	83,	0.30	,08:27:32	,01-Dec-2013
1353,	0.9,	77.6,	83,	0.29	,08:28:32	,01-Dec-2013
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1355,	0.7,	78.1,	83,	0.30	,08:30:32	,01-Dec-2013
1356,	0.9,	78.3,	83,	0.30	,08:31:32	,01-Dec-2013
1357,	0.6,	78.6,	82,	0.30	,08:32:32	,01-Dec-2013
1358,	0.8,	78.9,	82,	0.30	,08:33:32	,01-Dec-2013
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1361,	0.7,	79.6,	82,	0.30	,08:36:32	,01-Dec-2013
1362,	0.8,	79.8,	82,	0.30	,08:37:32	,01-Dec-2013
1363,	0.9,	80.0,	81,	0.30	,08:38:32	,01-Dec-2013
1364,	0.9,	80.2,	81,	0.30	,08:39:32	,01-Dec-2013
1365,	0.7,	80.5,	81,	0.30	,08:40:32	,01-Dec-2013
1366,	0.7,	80.7,	81,	0.30	,08:41:32	,01-Dec-2013
1367,	0.8,	80.9,	81,	0.30	,08:42:32	,01-Dec-2013
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1387,	0.8,	83.8,	77,	0.30	,09:02:32	,01-Dec-2013
1388,	0.7,	83.9,	77,	0.31	,09:03:32	,01-Dec-2013
1389,	0.9,	84.0,	77,	0.30	,09:04:32	,01-Dec-2013
1390,	0.7,	84.1,	77,	0.31	,09:05:32	,01-Dec-2013
1391,	0.9,	84.3,	77,	0.30	,09:06:32	,01-Dec-2013
1392,	0.8,	84.5,	77,	0.30	,09:07:32	,01-Dec-2013
1393,	0.7,	84.6,	77,	0.31	,09:08:32	,01-Dec-2013
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1405,	0.6,	85.9,	75,	0.31	,09:20:32	,01-Dec-2013
1406,	0.3,	86.0,	74,	0.32	,09:21:32	,01-Dec-2013
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1409,	0.7,	86.1,	74,	0.31	,09:24:32	,01-Dec-2013
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1421,	0.6,	87.0,	73,	0.31	,09:36:32	,01-Dec-2013
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1546,	1.0,	99.8,	56,	0.37	,11:41:32	,01-Dec-2013
1547,	0.7,	99.8,	57,	0.36	,11:42:32	,01-Dec-2013
1548,	0.6,	99.9,	57,	0.36	,11:43:32	,01-Dec-2013
1549,	0.9,	100.0,	56,	0.37	,11:44:32	,01-Dec-2013
1550,	1.2,	100.1,	56,	0.37	,11:45:32	,01-Dec-2013
1551,	1.2,	100.3,	57,	0.36	,11:46:32	,01-Dec-2013
1552,	1.3,	100.4,	57,	0.36	,11:47:32	,01-Dec-2013
1553,	1.1,	100.5,	56,	0.36	,11:48:32	,01-Dec-2013
1554,	1.1,	100.6,	56,	0.36	,11:49:32	,01-Dec-2013
1555,	0.7,	100.6,	56,	0.35	,11:50:32	,01-Dec-2013
1556,	1.3,	100.7,	56,	0.37	,11:51:32	,01-Dec-2013
1557,	1.3,	100.7,	56,	0.34	,11:52:32	,01-Dec-2013
1558,	0.8,	100.7,	56,	0.33	,11:53:32	,01-Dec-2013
1559,	0.9,	100.8,	56,	0.34	,11:54:32	,01-Dec-2013
1560,	1.2,	100.8,	55,	0.33	,11:55:32	,01-Dec-2013
1561,	0.9,	100.8,	55,	0.33	,11:56:32	,01-Dec-2013
1562,	1.1,	100.9,	55,	0.32	,11:57:32	,01-Dec-2013

(MASS)ug/m3
Temp (F)
Humidity (RH%)
Diameter (nm)
0
5
10
15
20
25
30
35
40
45
50
55
11/30/13 10:00:00
11/30/13 12:00:00
11/30/13 14:00:00
11/30/13 16:00:00
11/30/13 18:00:00
11/30/13 20:00:00
11/30/13 22:00:00
12/01/13 00:00:00
12/01/13 02:00:00
12/01/13 04:00:00
12/01/13 06:00:00
12/01/13 08:00:00
12/01/13 10:00:00
12/01/13 12:00:00

Data:RAM4:2:SN#,D7877,StrtHdr,0,0,0#,2,5,1,gr#,55,1,start,30:Nov:2013,09:55:32,Interval,0:01:00,1
(MASS)ug/m3
Temp (F)
Humidity (RH%)
Diameter (nm)
100
95
90
85
80
75
70
65
60
55
50
45
40
35
30
25
20
15
10
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0
11/30/13 10:00:00
11/30/13 12:00:00
11/30/13 14:00:00
11/30/13 16:00:00
11/30/13 18:00:00
11/30/13 20:00:00
11/30/13 22:00:00
12/01/13 00:00:00
12/01/13 02:00:00
12/01/13 04:00:00
12/01/13 06:00:00
12/01/13 08:00:00
12/01/13 10:00:00
12/01/13 12:00:00

(MASS)ug/m3
Temp (F)
Humidity (RH%)
Diameter (um)
85
80
75
70
65
60
55
50
45
40
35
30
25
20
15
10
5
0
11/30/13 10:00:00
11/30/13 12:00:00
11/30/13 14:00:00
11/30/13 16:00:00
11/30/13 18:00:00
11/30/13 20:00:00
11/30/13 22:00:00
12/01/13 00:00:00
12/01/13 02:00:00
12/01/13 04:00:00
12/01/13 06:00:00
12/01/13 08:00:00
12/01/13 10:00:00
12/01/13 12:00:00

CONFIDENTIAL BY AMEC, Inc.

ALTOL Environmental Services, Inc.

ALTOL ENVIRONMENTAL SERVICES, INC.

PO BOX 359 MERCEDITA, PR 00715-0359

CHAIN OF CUSTODY (TRANSMITTAL SHEET FOR AIR SAMPLES)

PAGE____ OF____

ALTOL Environmental Services, Inc.

Customer Name:	Homeca Recycling and Demolitions	Project Name:	Old Facilties PR Olefins, Peñuelas P.R.
Contact:	Sup. Melvin Feliciano	Total Samples:	6 Job Number: ENJ-341
Phone / Fax/Email:	787-426-1597	Worker Name:	Osvaldo Feliciano Ruiz Worker ID: ASB-0413-0138-AW
Collected By:	Jose A Santos ASB-0912-0558-MS	Worker Name:	N/A Worker ID: N/A
Analized By Lab:	Altol Chemical Environmental Laboratory, Inc.	Worker Name:	N/A Worker ID: N/A
AIHA Lab ID:	199763	Worker Name:	N/A Worker ID: N/A

Project Description: Encapsulado y Cobertura de Materiales (Metales), Al Sur de las Calderas Localizado en el Medio de la Facilidades

Lab ID	Date	Sample ID	Sample Description	Pump	Time		Flow Rate			Volume (L)	Asbestos		Lead	Minutes
					START	STOP	Initial	Final	Avg.		PCM	TEM	Air	
JS11301301	Nov-30-13	341-113013-ASB-JS-01	Field Blank I	------	----	----	----	----	----	---	X			---
JS11301302	Nov-30-13	341-113013-ASB-JS-02	Field Blank II	------	----	----	----	----	----	---	X			---
JS11301303	Nov-30-13	341-113013-ASB-JS-03	Osvaldo Feliciano, Encopsulado y Cobertura de Materiales (Metales), Al Sur de las Calderas	LV 6124	13:52	14:22	1.6	1.6	1.6	48.0	X			30
JS11301304	Nov-30-13	341-113013-ASB-JS-04	Osvaldo Feliciano, Encapsulado y Cobertura de Materiales (Metales), Al Sur de las Calderas	LV 6124	14:24	14:52	1.6	1.6	1.6	44.8	X			28
JS11301305	Nov-30-13	341-113013-ASB-JS-05	Area Interior, Encapsulado y Cobertura de Materiales (Metales), Al Sur de las Calderas	LV-5087	13:54	14:56	2.5	2.5	2.5	155.0	X			62
JS11301306	Nov-30-13	341-113013-ASB-JS-06	Area Exterior, (Decon)	LV 5093	13:59	14:58	2.5	2.5	2.5	147.5	X			59

Turn Around Time: Normal: 7 days __X__ Rush: 24 hours _____ Rush: 16 hours _____

Sampling Collected by:	Relinquished by:	Received by:	Relinquished by:	Received by	Delivery to Lab by:	Received at Lab by:
Jose A Santos						Jose A Santos
Date: Time:	Date: Time:	Date: Time:	Date: Time:	Date: Time:	Date: Time:	Date: Time:
Nov-30-13						Nov-30-13

D.C.-2-13

CONFIDENTIAL - PRIVILEGED

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ALTOL ENVIRONMENTAL SERVICES, INC.

PO BOX 359 MERCEDITA, PR 00715-0359

FINAL DAILY PCM AIR MONITORING REPORT FOR FIELD ANALYSIS

Customer Name:	Homeca Recycling and Demolitions	Project Name:	Old Facilties PR Olefins, Peñuelas P.R.
Contact:	Sup. Melvin Feliciano		
Phone / Fax/Email:	787-426-1597	Total Samples:	6
Sampling Date:	Nov-30-13 Analytical Method: NIOSH 7400	Job Number:	ENJ-341
Collected By:	Jose A Santos	Custody Record #:	
Delivery By:	Jose A Santos	Collected ID:	ASB-0912-0558-MS
Received By:	Jose A Santos	Delivery Date	Nov-30-13
Analized By:	Jose A Santos Altol Chemical Environmental Laboratory, Inc.	Received Date:	Nov-30-13
Worker Name:	Osvaldo Feliciano Ruiz	AIHA Lab ID:	199763
Worker Name:	N/A	Worker ID:	ASB-0413-0138-AW
Worker Name:	N/A	Worker ID:	N/A
Worker Name:	N/A	Worker ID:	N/A
		Worker ID:	N/A

Project Description: Encapsulado y Cobertura de Materiales (Metales), Al Sur de las Calderas Localizado en el Medio de la Facilidades

Sample ID	Location	Type	TIME START	TIME STOP	FLOW RATE (LPM)	SAMPLE VOLUME (Liters)	TOTAL FIELDS COUNTED	TOTAL FIBERS COUNTED	FIBER DENSITY (f/mm2)	M.F.C (f/cc)	L.O.D (f/cc)	R.F.C (f/cc)	T.W.A 8hrs (f/cc)
341-113013-ASB-JS-01	Field Blank I	FB	----	----	----	---	100	0	0.0	----	----	----	
341-113013-ASB-JS-02	Field Blank II	FB	----	----	----	---	100	0	0.0	----	----	----	
341-113013-ASB-JS-03	Osvaldo Feliciano, Encapsulado y Cobertura de Materiales (Metales), Al Sur de las Calderas	E	13:52	14:22	1.6	48.0	100	3	3.8	0.0307	0.0563	< 0.0563	< 0.0070
341-113013-ASB-JS-04	Osvaldo Feliciano, Encapsulado y Cobertura de Materiales (Metales), Al Sur de las Calderas	PR-RM	14:24	14:52	1.6	44.8	100	4.5	5.7	0.0493	0.0603	< 0.0603	
341-113013-ASB-JS-05	Area Interior, Encapsulado y Cobertura de Materiales (Metales), Al Sur de las Calderas	RM	13:54	14:56	2.5	155.0	100	4.5	5.7	0.0142	0.0174	< 0.0174	
341-113013-ASB-JS-06	Area Exterior, (Decon)	OS	13:59	14:58	2.5	147.5	100	1	1.3	0.0033	0.0183	< 0.0183	

MFC = Measured Fibers Concentration. LOD = Limit of Detection. RFC = Reported Fibers Concentration. T.W.A = Time Weighted Average, PR = Personal
T= Type of Sample, BG = Background. EX = Exposure. OS = Outside. PP = Preparation. RM = Removal. CE = Cleaning. CL= Clearance. E = Excursion.

Reported By:	Jose A Santos Environmental Technician jose.santos@altolenterprises.com Phone: 787-507-1627	Signature:	Verified By:	Carlos Ocasio Altol Operation Manager carlos.ocasio@altolenterprises.com Phone: 787-835-4242 / 4229	Signature:
Date:	Nov-30-13		Date:		DIC-2-13

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ALTOL ENVIRONMENTAL SERVICES, INC.

PO BOX 359 MERCEDITA, PR 00715-0359

CHAIN OF CUSTODY (TRANSMITTAL SHEET FOR AIR SAMPLES)

PAGE____ OF ____

Customer Name:	Homeca Recycling and Demolitions	Project Name:	Old Facilties PR Olefins, Peñuelas PR
Contact:	Sup. Melvin Feliciano	Total Samples:	9 — Job Number: ENJ-341
Phone / Fax/Email:	787-426-1597	Worker Name:	Jorge Velazquez — Worker ID: ASB-0513-0182-AW
Collected By:	Jose A Santos ASB-0912-0558-MS	Worker Name:	N/A — Worker ID: N/A
Analized By Lab:	Altol Chemical Environmental Laboratory, Inc.	Worker Name:	N/A — Worker ID: N/A
AIHA Lab ID:	199763	Worker Name:	N/A — Worker ID: N/A

Project Description: Encapsulado y Cobertura de Materiales (Metales), Al Sur de las Calderas Localizado en el Medio de la Facilidades

Lab ID	Date	Sample ID	Sample Description	Pump	Time		Flow Rate			Volume	Asbestos		Lead	Minutes
					START	STOP	Initial	Final	Avg.	(L)	PCM	TEM	Air	
JS12011301	Dic-01-13	341-120113-ASB-JS-01	Field Blank I	------	----	----	----	----	----	---	X			---
JS12011302	Dic-01-13	341-120113-ASB-JS-02	Field Blank II	------	----	----	----	----	----	---	X			---
JS12011303	Dic-01-13	341-120113-ASB-JS-03	Jorge Velazques, Encapsulado y Cobertura de Materiales (Metales), Al Sur de las Calderas	LV-6124	8:05	8:35	1.6	1.6	1.6	48.0	X			30
JS12011304	Dic-01-13	341-120113-ASB-JS-04	Jorge Velazques, Encapsulado y Cobertura de Materiales (Metales), Al Sur de las Calderas	LV-6124	8:38	12:10	1.6	1.6	1.6	339.2	X			212
JS12011305	Dic-01-13	341-120113-ASB-JS-05	Jorge Velazques, Encapsulado y Cobertura de Materiales (Metales), Al Sur de las Calderas	LV-6124	13:22	15:03	1.6	1.6	1.6	161.6	X			101
JS12011306	Dic-01-13	341-120113-ASB-JS-06	Area Interior, Encapsulado y Cobertura de Materiales (Metales), Al Sur de las Calderas	LV-5087	8:10	12:15	2.5	2.5	2.5	612.5	X			245
JS12011307	Dic-01-13	341-120113-ASB-JS-07	Area Interior, Encapsulado y Cabertura de Materiales (Metales); Al Sur de las Calderas	LV-5087	13:25	15:06	2.5	2.5	2.5	252.5	X			101
JS12011308	Dic-01-13	341-120113-ASB-JS-08	Area Exterior (Decon)	LV-5093	8:13	12:16	2.5	2.5	2.5	607.5	X			243
JS12011309	Dic-01-13	341-120113-ASB-JS-09	Area Exterior (Decon)	LV-5093	13:29	15:12	2.5	2.5	2.5	257.5	X			103

Turn Around Time: Normal: 7 days __X__ Rush: 24 hours _____ Rush: 16 hours _____

Sampling Collected by:	Relinquished by:	Received by:	Relinquished by:	Received by	Delivery to Lab by:	Received at Lab by:
Jose A Santos						Jose A Santos
Date: Time:	Date: Time:	Date: Time:	Date: Time:	Date: Time:	Date: Time:	Date: Time:
Dic-01-13						Dic-01-13

Dic-2-13

CONFIDENTIAL PURSUANT TO PROTECTIVE ORDER

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ALTOL ENVIRONMENTAL SERVICES, INC.

PO BOX 359 MERCEDITA, PR 00715-0359

FINAL DAILY PCM AIR MONITORING REPORT FOR FIELD ANALYSIS

Customer Name:	Homeca Recycling and Demolitions	**Project Name:**	Old Facilties PR Olefins, Peñuelas PR
Contact:	Sup. Melvin Feliciano		
Phone / Fax/Email:	787-426-1597	**Total Samples:**	9 **Job Number:** ENJ-341-
Sampling Date:	Dic-01-13 **Analytical Method:** NIOSH 7400	**Custody Record #:**	
Collected By:	Jose A Santos	**Collected ID:**	ASB-0912-0558-MS
Delivery By:	Jose A Santos	**Delivery Date**	Dic-01-13
Received By:	Jose A Santos	**Received Date:**	Dic-01-13
Analized By:	Jose A Santos Altol Chemical Environmental Laboratory, Inc.	**AIHA Lab ID:**	199763
Worker Name:	Jorge Velazquez	**Worker ID:**	ASB-0513-0182-AW
Worker Name:	N/A	**Worker ID:**	N/A
Worker Name:	N/A	**Worker ID:**	N/A
Worker Name:	N/A	**Worker ID:**	N/A

Project Description: Encapsulado y Cobertura de Materiales (Metales), Al Sur de las Calderas Localizado en el Medio de la Facilidades

Sample ID	Location	Type	TIME START	TIME STOP	FLOW RATE (LPM)	SAMPLE VOLUME (Liters)	TOTAL FIELDS COUNTED	TOTAL FIBERS COUNTED	FIBER DENSITY (f/mm2)	M.F.C (f/cc)	L.O.D (f/cc)	R.F.C (f/cc)	T.W.A 8hrs (f/cc)
341-120113-ASB-JS-01	Field Blank I	FB	----	----	----	---	100	0	0.0	----	----	----	
341-120113-ASB-JS-02	Field Blank II	FB	----	----	----	---	100	0	0.0	----	----	----	
341-120113-ASB-JS-03	Jorge Velazques, Encapsulado y Cobertura de Materiales (Metales), Al Sur de las Calderas	E	8:05	8:35	1.6	48.0	100	8	10.2	0.0817	0.0563	0.0817	
341-120113-ASB-JS-04	Jorge Velazques, Encapsulado y Cobertura de Materiales (Metales), Al Sur de las Calderas	PR-RM	8:38	12:10	1.6	339.2	100	13	16.6	0.0188	0.0080	0.0188	< 0.0297
341-120113-ASB-JS-05	Jorge Velazques, Encapsulado y Cobertura de Materiales (Metales), Al Sur de las Calderas	PR-RM	13:22	15:03	1.6	161.6	100	25.5	32.5	0.0774	0.0167	0.0774	
341-120113-ASB-JS-06	Area Interior, Encapsulado y Cobertura de Materiales (Metales), Al Sur de las Calderas	RM	8:10	12:15	2.5	612.5	100	5.5	7.0	0.0044	0.0044	< 0.0044	
341-120113-ASB-JS-07	Area Interior, Encapsulado y Cobertura de Materiales (Metales), Al Sur de las Calderas	RM	13:25	15:06	2.5	252.5	100	6.5	8.3	0.0126	0.0107	0.0126	

MFC = Measured Fibers Concentration. LQD = Limit of Detection. RFC = Reported Fibers Concentration. T.W.A = Time Weighted Average. PR = Personal
T= Type of Sample. BG = Background. EX = Exposure. OS = Outside. PP = Preparation. RM = Removal. CE = Cleaning. CL= Clearance, E = Excursion.

Reported By:	Jose A Santos Environmental Technician jose.santos@altolenterprises.com Phone: 787-507-1627	**Signature:**	**Verified By:**	Carlos Ocasio Altol Operation Manager carlos.ocasio@altolenterprises.com Phone: 787-835-4242 / 4229	**Signature:**
Date:	Dic-01-13		**Date:**		12-4-13

CONFIDENTIAL
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RX 6

ALTOL ENVIRONMENTAL SERVICES, INC.

PO BOX 359 MERCEDITA, PR 00715-0359

FINAL DAILY PCM AIR MONITORING REPORT FOR FIELD ANALYSIS

Customer Name:	Homeca Recycling and Demolitions	Project Name:	Old Facilities PR Olefins, Peñuelas PR
Contact:	Sup. Melvin Feliciano		
Phone / Fax/Email:	787-426-1597	Total Samples:	9
Sampling Date:	Dic-01-13 Analytical Method: NIOSH 7400	Job Number:	ENJ-341
Collected By:	Jose A Santos	Custody Record #:	
Delivery By:	Jose A Santos	Collected ID:	ASB-0912-0558-MS
Received By:	Jose A Santos	Delivery Date	Dic-01-13
Analized By:	Jose A Santos Altol Chemical Environmental Laboratory, Inc.	Received Date:	Dic-01-13
Worker Name:	Jorge Velazquez	AIHA Lab ID:	199763
Worker Name:	N/A	Worker ID:	ASB-0513-0182-AW
Worker Name:	N/A	Worker ID:	N/A
Worker Name:	N/A	Worker ID:	N/A
		Worker ID:	N/A

Project Description: Encapsulado y Cobertura de Materiales (Metales), Al Sur de las Calderas Localizado en el Medio de la Facilidades

Sample ID	Location	Type	TIME		FLOW RATE (LPM)	SAMPLE VOLUME (Liters)	TOTAL FIELDS COUNTED	TOTAL FIBERS COUNTED	FIBER DENSITY (f/mm2)	M.F.C (f/cc)	L.O.D (f/cc)	R.F.C (f/cc)	T.W.A 8hrs (f/cc)
			START	STOP									
341-120113-ASB-JS-08	Area Exterior (Decon)	OS	8:13	12:16	2.5	607.5	100	2.5	3.2	0.0020	0.0044	< 0.0044	
341-120113-ASB-JS-09	Area Exterior (Decon)	OS	13:29	15:12	2.5	257.5	100	2	2.5	0.0038	0.0105	< 0.0105	

MFC = Measured Fibers Concentration. LOD = Limit of Detection. RFC = Reported Fibers Concentration. T.W.A = Time Weighted Average. PR = Personal
T= Type of Sample. BG = Background. EX = Exposure. OS = Outside. PP = Preparation. RM = Removal. CE = Cleaning. CL= Clearance. E = Excursion.

Reported By:	Jose A Santos Environmental Technician jose.santos@altolenterprises.com Phone: 787-507-1627	Verified By:	Carlos Ocasio Altol Operation Manager carlos.ocasio@altolenterprises.com Phone: 787-835-4242 / 4229
Signature:		Signature:	
Date:	Dic-01-13	Date:	12-2-13

CONFIDENTIAL PER PROTECTIVE ORDER
000739
RX 6
Page 806 of 1,639

HOMECA RECYCLING
Environmental, Coating and Demolition Services

CONFIRM RECEIVED REQUESTED

December 17, 2013

Mr. Carlos M. Rivera Velázquez
Multimedia Permits and Compliance Branch
U.S. Environmental Protection Agency, Region 2
Caribbean Environmental Protection Division
City View Plaza II-Suite 7000
48 Rd. 165 Km 1.2, Guaynabo, PR 00968-8069

Mr. José C. Font, PE, Director
US Environmental Protection Agency, Region 2
Caribbean Environmental Protection Division
City View Plaza II-Suite 7000
48 Rd. 165 Km 1.2, Guaynabo, PR 00968-8069

RE: Crane Cleaning and Removal / Request For Laboratory Test Results
EPA Index Number CAA-02-2014-1451

Dear Mr. Rivera and Mr. Font:

The following is in regard to our request for authorization to decontaminate the crane located in the PR Olefin Facility area. This authorization was submitted before you during our meeting held on December 6, 2013.

We would like to inform that, accordingly, the decontamination of the crane was duly performed. As of today, and after the completion of such task, we are taking the proper steps for the removal of the crane from the Facility, as we anticipated during the aforementioned meeting.

Additionally, and within the teamwork approach we have conducted our joint efforts with the EPA dealing with the Tallaboa situation, we now take the opportunity to reiterate our request of a copy of the results of the laboratory tests performed by the EPA in the PR Olefin Facility and its surrounding areas. Your prompt response in this matter will be very much appreciated.

1575 Ave. Muñoz Rivera PMB 120 Ponce, PR 00717-0211 / Office: 787-841-2223 / Fax. 787-984-0059

Should you have any questions or need more information regarding these subjects, please do not hesitate to contact us at your earliest convenience.

Cordially,



Benjamin Cintron
Project Manager

cc: Ms. Laura Vélez, Esq.
Chairman
Puerto Rico Environmental Quality Board

Eng. Roberto Aponte
Tallaboa Industrial Park, LLC

000741

CONFIDENTIAL & PRIVILEGE

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 2
CARIBBEAN ENVIRONMENTAL PROTECTION DIVISION
CITY VIEW PLAZA II, SUITE 7000
#48 165 RD. KM 1.2
GUAYNABO, PUERTO RICO 00968-8069

CERTIFIED MAIL /
RETURN RECEIPT REQUESTED

December 17, 2013

Mr. Benjamín Cintrón
Project Manager
Homeca Recycling Inc.
1575 Muñoz Rivera Ave.
PMB120 Ponce, Puerto Rico 00717-0211

Roberto Aponte
Tallaboa Industrial Park, LLC
Road 385, Km. 5.4, Barrio Tallaboa Poniente
Peñuelas, Puerto Rico 00624

Re. EPA response to HOMECA Recycling Inc. December 17, 2013 letter, regarding the Crane cleaning and Removal / Request for Laboratory Test Results

Dear Sirs:

In a Field Notice of Federal Interest (FNFI), dated November 27, 2013, the United States Environmental Protection Agency ("USEPA" or the "Agency") requested HOMECA Recycling Inc./Tallaboa Industrial Park LLC/Empire Gas to report immediately to the Agency those removal activities that had been performed and those removal activities planned to be performed to prevent, correct, clean up, minimize or mitigate the release and/or threatened release of pollutants, contaminations and/or hazardous substances (asbestos) at the Tallaboa Industrial Park facility in Peñuelas, Puerto Rico (the "Facility"), in conformance with the Comprehensive Environmental Response Compensation and Liability Act of of 1980, 42 U.S.C. § 9601 et seq., (CERCLA).

In a meeting held on December 6, 2013 in our offices in Guaynabo, Puerto Rico, USEPA reiterated, among other things, that compliance with our FNFI was required in order to address the Agency's issues and concerns regarding the release of friable asbestos at the Facility.

Accordingly, prior to conducting any crane decontamination activity as referred to in HOMECA Recycling Inc.'s (herein after "HOMECA") December 17, 2013 letter, you were required to report to the Agency removal activities related to the decontamination of the crane (i.e., work plan, quality assurance project plans, health and safety plans) for EPA approval. Only after receiving the USEPA's approval of the before mentioned activities, HOMECA would be authorized to conduct such under USEPA oversight.

We hereby request HOMECA to immediately submit to USEPA the above stated documents related to the crane decontamination activities performed for review and approval. Also, we request immediate submittal of the crane sampling clearance protocol (including quality control and chain of custody), sampling clearance results, and the waste determination of the decon water generated as part of the cleaning process in order to assure that all of the pertinent protocols and applicable regulations were followed during the activities that you informed in your letter that were conducted. Meanwhile, we urge HOMECA to cease and desist conducting any related removal activity until receiving clearance from the Agency, including the removal of the crane from the Facility.

As to the results of the sampling that USEPA has conducted at the Facility, once all results are certified following Agency procedures and protocols, we will share them with all the parties of concern.

Should you have any questions or comments, please contact me.

Sincerely,

José C. Font
Director,
Caribbean Environmental Protection Division
US Environmental Protection Agency, Region 2
City View Plaza II, Suite 7000
#48 RD. 165 km 1.2
Guaynabo, PR 00968-8069
phone: 787.977.5815

HOMECA Inc
RECYCLING
Environmental and Demolition Services

JCA
RADICACIONES
2010 OCT 15 PM 1:34

13 de octubre de 2010

Área de Calidad de Aire
Junta de Calidad Ambiental
Apartado 11488
San Juan, PR 00910

RE: Permiso General Manejo de Materiales con Contenido de Asbesto
PG-ASB-57-09-10-01-25-RC
Desmantelamiento Antigua Planta PR Olefins
Carretera PR 127 Km. 19.2
Bo. Tallaboa Poniente Sector El Pueblito
Peñuelas, PR 00624

Estimados Señores (as):

Le queremos notificar nuestra intención de comenzar las labores de mitigación de Asbesto en el proyecto de Referencia este 14 de octubre de 2010.

Cualquier información adicional al respecto puede comunicarse: a nuestra oficina al 787-689-6150, con la Ing. Luzdellys Echevarría al 787-458-3737 o con una servidora al 787-632-6173.

Cordialmente,

Tamara Echevarría
Asistente Gerente de Proyecto

1575 MUNOZ RIVERA AVE. PMB 120 PONCE, PR 00717-0211
TEL. (787) 984-0029 ▪ FAX (787) 984-0059

HOMECA INC.
RECYCLING
Environmental and Demolition Services

JCA
RADICACIONES
2010 NOV 15 AM 11:05

8 de noviembre de 2010

Sra. Evelyn Rodríguez Cintrón, Gerente
Junta de Calidad Ambiental
Área de Calidad de Aire
Apartado 11488
San Juan, PR 0091

RE: Permiso # PG-ASB-57-09-10-0125RC
Desmantelamiento Antigua PR Olefins
Bo. Tallaboa Poniente Carretera PR#127
Interior PR #385 Peñuelas, PR 00624

En cumplimiento con la condición de permiso # 47, del Permiso General para el Manejo de Materiales con Contenido de Asbesto, a continuación incluimos el **Informe Mensual (Informe de Cierre Parcial)**, el cual incluye las tareas realizadas en los edificios del proyecto de referencia.

Hasta el momento se han realizado las siguientes tareas:

Remoción Aproximada Asbesto Área # 1 y # Área 2: 3,780 pies lineales de aislación & 2,304 pies cuadrados de aislación

El material generado durante los trabajos de mitigación fueron debidamente almacenados en un contenedor de 20 yardas cubicas.

Copias de hojas de cadena de custodia, resumen de tareas diarias y manifiestos de disposición serán entregados en el Informe Final de Cierre del Permiso de Referencia, según requerido la condición # 48 del permiso.

Esperamos esta información, les sea de utilidad. Si usted tiene alguna pregunta o necesita información adicional al respecto, por favor no dude en comunicarse con una servidora al 787-689-6150.

Cordialmente,

Tamara Echevarría
Asistente Gerente de Proyecto

HOMECA Inc.
RECYCLING
Environmental and Demolition Services

JCA
RADICACIONES
2011 JAN 14 PM 1:15

14 de enero de 2011

Sra. Evelyn Rodríguez Cintrón, Gerente
Junta de Calidad Ambiental
Área de Calidad de Aire
Apartado 11488
San Juan, PR 0091

RE: Permiso # PG-ASB-57-09-10-0125RC
Desmantelamiento Antigua PR Olefins
Bo. Tallaboa Poniente Carretera PR#127
Interior PR #385 Peñuelas, PR 00624

En cumplimiento con la condición de permiso # 47, del Permiso General para el Manejo de Materiales con Contenido de Asbesto, a continuación incluimos el **Informe Mensual (Informe de Cierre Parcial)**, el cual incluye las tareas realizadas en los edificios del proyecto de referencia.

Hasta el momento se han realizado las siguientes tareas:

Remoción Aproximada Asbesto Área # 3 y # Área 4: 9,650 pies lineales de aislación

El material generado durante los trabajos de mitigación fueron debidamente almacenados en un contenedor de 20 yardas cubicas.

Copias de hojas de cadena de custodia, resumen de tareas diarias y manifiestos de disposición serán entregados en el Informe Final de Cierre del Permiso de Referencia, según requerido la condición # 48 del permiso.

Esperamos esta información, les sea de utilidad. Si usted tiene alguna pregunta o necesita información adicional al respecto, por favor no dude en comunicarse con una servidora al 787-689-6150.

Cordialmente,

Tamara Echevarría
Asistente Gerente de Proyecto

000747

HOMECA Inc.
RECYCLING
Environmental and Demolition Services

RADICADO JCA
2011 FEB 15 AM 11:37

14 de febrero de 2011

Sra. Evelyn Rodríguez Cintrón, Gerente
Junta de Calidad Ambiental
Área de Calidad de Aire
Apartado 11488
San Juan, PR 0091

RE: Permiso # PG-ASB-57-09-10-0125RC
Desmantelamiento Antigua PR Olefins
Bo. Tallaboa Poniente Carretera PR#127
Interior PR #385 Peñuelas, PR 00624

En cumplimiento con la condición de permiso # 47, del Permiso General para el Manejo de Materiales con Contenido de Asbesto, a continuación incluimos el **Informe Mensual (Informe de Cierre Parcial)**, el cual incluye las tareas realizadas en los edificios del proyecto de referencia.

Hasta el momento se han realizado las siguientes tareas:

Remoción Aproximada de Asbesto Área # 4 y # Área 5: 7,400 pies lineales

El material generado durante los trabajos de mitigación fueron debidamente almacenados en un contenedor de 20 yardas cubicas.

Copias de hojas de cadena de custodia, resumen de tareas diarias y manifiestos de disposición serán entregados en el Informe Final de Cierre del Permiso de Referencia, según requerido la condición # 48 del permiso.

Esperamos esta información, les sea de utilidad. Si usted tiene alguna pregunta o necesita información adicional al respecto, por favor no dude en comunicarse con una servidora al 787-689-6150.

Cordialmente,

Tamara Echevarría
Asistente Gerente de Proyecto

HOMECA Inc.
RECYCLING
Environmental and Demolition Services

14 de marzo de 2011

JCA
RADICACIONES
2011 MAR 15 AM 8:26

Sra. Evelyn Rodríguez Cintrón, Gerente
Junta de Calidad Ambiental
Área de Calidad de Aire
Apartado 11488
San Juan, PR 0091

RE: **Permiso # PG-ASB-57-09-10-0125RC**
Desmantelamiento Antigua PR Olefins
Bo. Tallaboa Poniente Carretera PR#127
Interior PR #385 Peñuelas, PR 00624

En cumplimiento con la condición de permiso # 47, del Permiso General para el Manejo de Materiales con Contenido de Asbesto, a continuación incluimos el **Informe Mensual (Informe de Cierre Parcial)**, el cual incluye las tareas realizadas en los edificios del proyecto de referencia.

Hasta el momento se han realizado las siguientes tareas:

Remoción Aproximada de Asbesto Área # 5-B: 5,400 pies lineales

El material generado durante los trabajos de mitigación fue debidamente almacenado en el área designada para estos fines, en estricto cumplimiento con los estándares de la realización del trabajo.

Copias de hojas de cadena de custodia, resumen de tareas diarias y manifiestos de disposición serán entregados en el Informe Final de Cierre del Permiso de Referencia, según requerido la condición # 48 del permiso.

Esperamos esta información, les sea de utilidad. Si usted tiene alguna pregunta o necesita información adicional al respecto, por favor no dude en comunicarse con una servidora, a su conveniencia.

Cordialmente,

Tamara Echevarría
Asistente Gerente de Proyecto
tamara@homecainc.com
Office: 787-689-6150
Mobile: 787-632-6173

HOMECA Inc
RECYCLING
Environmental and Demolition Services

JCA
RADI[illegible]ES
2011 APR 15 PM 12:07

14 de abril de 2011

Sra. Evelyn Rodríguez Cintrón, Gerente
Junta de Calidad Ambiental
Área de Calidad de Aire
Apartado 11488
San Juan, PR 0091

RE: Permiso # PG-ASB-57-09-10-0125RC
Desmantelamiento Antigua PR Olefins
Bo. Tallaboa Poniente Carretera PR#127
Interior PR #385 Peñuelas, PR 00624

En cumplimiento con la condición de permiso # 47, del Permiso General para el Manejo de Materiales con Contenido de Asbesto, a continuación incluimos el **Informe Mensual (Informe de Cierre Parcial)**, el cual incluye las tareas realizadas en los edificios del proyecto de referencia.

Hasta el momento se han realizado las siguientes tareas:

Remoción Aproximada de Asbesto Área # 5-B: 3,630 pies lineales

El material generado durante los trabajos de mitigación fue debidamente almacenado en el área designada para estos fines, en estricto cumplimiento con los estándares de la realización del trabajo.

Copias de hojas de cadena de custodia, resumen de tareas diarias y manifiestos de disposición serán entregados en el Informe Final de Cierre del Permiso de Referencia, según requerido la condición # 48 del permiso.

Esperamos esta información, les sea de utilidad. Si usted tiene alguna pregunta o necesita información adicional al respecto, por favor no dude en comunicarse con una servidora, a su conveniencia.

Cordialmente,

Tamara Echevarría
Asistente Gerente de Proyecto
tamara@homecainc.com
Office: 787-689-6150
Mobile: 787-632-6173

HOMECA INC
RECYCLING
Environmental and Demolition Services

JCA-RADICA. MAY13'11 am10:28

12 de mayo de 2011

Sra. Evelyn Rodríguez Cintrón, Gerente
Junta de Calidad Ambiental
Área de Calidad de Aire
Apartado 11488
San Juan, PR 0091

RE: Permiso # PG-ASB-57-09-10-0125RC
Desmantelamiento Antigua PR Olefins
Bo. Tallaboa Poniente Carretera PR#127
Interior PR #385 Peñuelas, PR 00624

En cumplimiento con la condición de permiso # 47, del Permiso General para el Manejo de Materiales con Contenido de Asbesto, a continuación incluimos el **Informe Mensual (Informe de Cierre Parcial)**, el cual incluye las tareas realizadas en los edificios del proyecto de referencia.

Hasta el momento se han realizado las siguientes tareas:

Remoción Aproximada de Asbesto Área # 5-B: 5,100 pies lineales

El material generado durante los trabajos de mitigación fue debidamente almacenado en el área designada para estos fines, en estricto cumplimiento con los estándares de la realización del trabajo.

Copias de hojas de cadena de custodia, resumen de tareas diarias y manifiestos de disposición serán entregados en el Informe Final de Cierre del Permiso de Referencia, según requerido la condición # 48 del permiso.

Esperamos esta información, les sea de utilidad. Si usted tiene alguna pregunta o necesita información adicional al respecto, por favor no dude en comunicarse con una servidora, a su conveniencia.

Cordialmente,

Tamara Echevarría
Asistente Gerente de Proyecto
tamara@homecainc.com
Office: 787-689-6150
Mobile: 787-632-6173

HOMECA
RECYCLING
Environmental and Demolition Services

15 de junio de 2011

Sra. Evelyn Rodríguez Cintrón, Gerente
Junta de Calidad Ambiental
Área de Calidad de Aire
Apartado 11488
San Juan, PR 0091

RE: Permiso # PG-ASB-57-09-10-0125RC
Desmantelamiento Antigua PR Olefins
Bo. Tallaboa Poniente Carretera PR#127
Interior PR #385 Peñuelas, PR 00624

En cumplimiento con la condición de permiso # 47, del Permiso General para el Manejo de Materiales con Contenido de Asbesto, a continuación incluimos el **Informe Mensual (Informe de Cierre Parcial)**, el cual incluye las tareas realizadas en los edificios del proyecto de referencia.

Hasta el momento se han realizado las siguientes tareas:

Remoción Aproximada de Asbesto Área # 5-B: 1,900 pies lineales

El material generado durante los trabajos de mitigación fue debidamente almacenado en el área designada para estos fines, en estricto cumplimiento con los estándares de la realización del trabajo.

Copias de hojas de cadena de custodia, resumen de tareas diarias y manifiestos de disposición serán entregados en el Informe Final de Cierre del Permiso de Referencia, según requerido la condición # 48 del permiso.

Esperamos esta información, les sea de utilidad. Si usted tiene alguna pregunta o necesita información adicional al respecto, por favor no dude en comunicarse con una servidora, a su conveniencia.

Cordialmente,

Tamara Echevarría
Asistente Gerente de Proyecto
tamara@homecainc.com
Office: 787-689-6150
Mobile: 787-632-6173

HOMECA INC
RECYCLING
Environmental and Demolition Services

15 de julio de 2011

Sra. Evelyn Rodríguez Cintrón, Gerente
Junta de Calidad Ambiental
Área de Calidad de Aire
Apartado 11488
San Juan, PR 0091

JCA-RADICA. JUL15'11 PM 2:01

RE: Permiso # PG-ASB-57-09-10-0125RC
Desmantelamiento Antigua PR Olefins
Bo. Tallaboa Poniente Carretera PR#127
Interior PR #385 Peñuelas, PR 00624

En cumplimiento con la condición de permiso # 47, del Permiso General para el Manejo de Materiales con Contenido de Asbesto, a continuación incluimos el **Informe Mensual (Informe de Cierre Parcial)**, el cual incluye las tareas realizadas en los edificios del proyecto de referencia.

Hasta el momento se han realizado las siguientes tareas:

Remoción Aproximada de Asbesto Área # 5-B: 1,600 pies lineales

El material generado durante los trabajos de mitigación fue debidamente almacenado en el área designada para estos fines, en estricto cumplimiento con los estándares de la realización del trabajo.

Copias de hojas de cadena de custodia, resumen de tareas diarias y manifiestos de disposición serán entregados en el Informe Final de Cierre del Permiso de Referencia, según requerido la condición # 48 del permiso.

Esperamos esta información, les sea de utilidad. Si usted tiene alguna pregunta o necesita información adicional al respecto, por favor no dude en comunicarse con una servidora, a su conveniencia.

Cordialmente,

Tamara Echevarría
Asistente Gerente de Proyecto
tamara@homecainc.com
Office: 787-689-6150
Mobile: 787-632-6173

HOMECA Inc
RECYCLING
Environmental and Demolition Services

JCA
RADICACIONES
2011 AUG 16 AM 11:38

15 de agosto de 2011

Sra. Evelyn Rodríguez Cintrón, Gerente
Junta de Calidad Ambiental
Área de Calidad de Aire
Apartado 11488
San Juan, PR 0091

RE: Permiso # PG-ASB-57-09-10-0125RC
Desmantelamiento Antigua PR Olefins
Bo. Tallaboa Poniente Carretera PR#127
Interior PR #385 Peñuelas, PR 00624

En cumplimiento con la condición de permiso # 47, del Permiso General para el Manejo de Materiales con Contenido de Asbesto, a continuación incluimos el **Informe Mensual (Informe de Cierre Parcial)**, el cual incluye las tareas realizadas en los edificios del proyecto de referencia.

Hasta el momento se han realizado las siguientes tareas:

Remociόn Aproximada de Asbesto Área # 5-B: 4,500 pies lineales

El material generado durante los trabajos de mitigación fue debidamente almacenado en el área designada para estos fines, en estricto cumplimiento con los estándares de la realización del trabajo.

Copias de hojas de cadena de custodia, resumen de tareas diarias y manifiestos de disposición serán entregados en el Informe Final de Cierre del Permiso de Referencia, según requerido la condición # 48 del permiso.

Esperamos esta información, les sea de utilidad. Si usted tiene alguna pregunta o necesita información adicional al respecto, por favor no dude en comunicarse con una servidora, a su conveniencia.

Cordialmente,

Tamara Echevarría
Asistente Gerente de Proyecto
tamara@homecainc.com
Office: 787-689-6150
Mobile: 787-632-6173

Enviar un fax

CONFIRMACIÓN

Fax enviado a:	17877565906
Nombre del destinatario:	Calidad de Aire
Compañía del destinatario:	JCA
Código de cliente:	
ID de referencia:	
Calidad del fax:	Buena

Asunto: Informe Parcial PG-ASB-57-09-10-0125-RC

Portada: Saludos, Adjunto informe parcial para su revision. Cualquier duda favor comunicarse al 787-689-6150.

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Gmail by Google

Tamara Echevarria <tamara.homeca@gmail.com>

Successful transmission to 17877565906. Re: Informe Parcial PG-ASB-57-09-10-0125-RC

1 message

send@mail.efax.com <send@mail.efax.com>
To: tamara@homecarecycling.com

Mon, Aug 15, 2011 at 5:03 PM

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Dear Luzdellys Echevarria,

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HOMECA Inc.
RECYCLING
Environmental and Demolition Services

JCA
RADICACIONES
2011 SEP 15 PM 1:13

15 de septiembre de 2011

Sra. Evelyn Rodríguez Cintrón, Gerente
Junta de Calidad Ambiental
Área de Calidad de Aire
Apartado 11488
San Juan, PR 0091

RE: **Permiso # PG-ASB-57-09-10-0125RC**
Desmantelamiento Antigua PR Olefins
Bo. Tallaboa Poniente Carretera PR#127
Interior PR #385 Peñuelas, PR 00624

En cumplimiento con la condición de permiso # 47, del Permiso General para el Manejo de Materiales con Contenido de Asbesto, a continuación incluimos el **Informe Mensual (Informe de Cierre Parcial)**, el cual incluye las tareas realizadas en los edificios del proyecto de referencia.

Hasta el momento se han realizado las siguientes tareas:

Remoción Aproximada de Asbesto: 1,500 pies lineales aislación y 2,500 pies cuadrados paneles asbesto cemento (transite).

El material generado durante los trabajos de mitigación fue debidamente almacenado en el área designada para estos fines, en estricto cumplimiento con los estándares de la realización del trabajo.

Copias de hojas de cadena de custodia, resumen de tareas diarias y manifiestos de disposición serán entregados en el Informe Final de Cierre del Permiso de Referencia, según requerido la condición # 48 del permiso.

Esperamos esta información, les sea de utilidad. Si usted tiene alguna pregunta o necesita información adicional al respecto, por favor no dude en comunicarse con una servidora, a su conveniencia.

Cordialmente,

Tamara Echevarría
Asistente Gerente de Proyecto
tamara@homecainc.com
Office: 787-689-6150
Mobile: 787-632-6173

000757

HOMECA INC
RECYCLING
Environmental and Demolition Services

JCA
RADICACIONES
2011 SEP 30 AM 11: 27

29 de septiembre de 2011

Sra. Evelyn Rodríguez Cintrón, Gerente
Junta de Calidad Ambiental
Área de Calidad de Aire
Apartado 11488
San Juan, PR 0091

RE: **Permiso # PG-ASB-57-09-10-0125RC**
Desmantelamiento Antigua PR Olefins
Bo. Tallaboa Poniente Carretera PR#127
Interior PR #385 Peñuelas, PR 00624

Según requerido en la condición # 6 del Permiso General para el Manejo de Materiales con Contenido de Asbesto, le notificamos la terminación de los trabajos en la primera fase del proyecto de referencia con el permiso solicitado el pasado, 28 de septiembre de 2010. Estos trabajos terminaron el pasado 27 de septiembre de 2011. Para la segunda fase del proyecto se estará radicando un nuevo permiso

Durante el periodo cubierto por la transferencia realizada por nuestra empresa se trabajó lo siguiente:

Remoción Aproximada Asbesto Área # 1 al Área # 7:

Descripción	Cantidad / Unidad
Tuberia (TSI)	45,035 pies lineales
Transite	4,804 pies cuadrados

Copias de hojas de cadena de custodia, resumen de tareas diarias y manifiestos de disposición serán entregados en el Informe Final de Cierre del Permiso de Referencia, según requerido la condición # 48 del permiso.

Esperamos esta información les sea de utilidad, de no ser así puede comunicarse con una a nuestra oficina al 787-689-6150, con la Ing. Luzdellys Echevarría al 787-458-3737 o con una servidora al 787-632-6173.

Cordialmente,

Tamara Echevarría
Asistente Gerente de Proyecto

HOMECA
RECYCLING
Environmental and Demolition Services

28 de noviembre de 2011

Junta de Calidad Ambiental
Área de Control de Contaminación de Terrenos
Apartado 11488
San Juan, PR 00910

JCA
RADICACIONES
2011 DEC 16 PM 1:25

RE: INFORME DE CIERRE
Permiso # PG-ASB-57-09-10-0125-RC
Proyecto: Desmantelamiento Antiguas Facilidades PR Olefins
Carretera 127 Km. 19.1 Bo. Tallaboa Poniente
Sector El Pueblito Peñuelas, PR

Estimados Señores (as):

El pasado 28 de septiembre de 2010, HOMECA, obtuvo de la Junta de Calidad Ambiental un permiso para realizar actividades de mitigación de material con contenido de Asbesto. Según notificado, el 14 de octubre de 2010, los trabajos para los cuales se obtuvo el permiso fueron comenzados. La primera fase del proyecto fue completada el 27 de septiembre de 2011, en cumplimiento con los reglamentos estatales y federales aplicables, plan de trabajo aprobado y todas las condiciones de permiso establecidas.

Es por ello, a continuación, según requerido en la condición de permiso # 13, le presentamos para su consideración el informe de cierre, en el cual podrá encontrar copia de todos los documentos requeridos para este permiso.

Esperamos la información incluida en este informe les sea de utilidad, de no ser así, pueden comunicarse con nuestra oficina al 787-689-6150, a su conveniencia.

Cordialmente,

Tamara Echevarría
Asistente Gerente de Proyecto

PO BOX 231 MERCEDITA, PR 00715 • TEL. (787) 689-6150 • FAX 800-491-1218

000759

RX 6
CONFIDENTIAL & PRIVILEDGE
Page 825 of 1,639

HOMECA
RECYCLING
Environmental and Demolition Services

VIA FAX: 787-756-5906

5 de diciembre de 2011

Área de Calidad de Aire
Junta de Calidad Ambiental
Apartado 11488
San Juan, PR 00910

RE: Permiso General Manejo de Materiales con Contenido de Asbesto
PG-ASB-57-0911-0112-RC
Desmantelamiento Antigua Planta PR Olefins
Carretera PR 127 Km. 19.2
Bo. Tallaboa Poniente Sector El Pueblito
Peñuelas, PR 00624

Estimados Señores (as):

Le queremos notificar nuestra intención de comenzar las labores de mitigación de Asbesto en el proyecto de Referencia este 5 de diciembre de 2011.

Cualquier información adicional al respecto puede comunicarse con una servidora al 787-632-6173.

Cordialmente,

Tamara Echevarría
Asistente Gerente de Proyecto

HOMECA
RECYCLING
Environmental and Demolition Services

6 de febrero de 2012

Sra. Evelyn Rodríguez Cintrón, Gerente
Junta de Calidad Ambiental
Área de Calidad de Aire
Apartado 11488
San Juan, PR 0091

RE: Permiso # PG-ASB-57-09-11-0112RC
Desmantelamiento Antigua PR Olefins
Bo. Tallaboa Poniente Carretera PR#127
Interior PR #385 Peñuelas, PR 00624

En cumplimiento con la condición de permiso # 47, del Permiso General para el Manejo de Materiales con Contenido de Asbesto, a continuación incluimos el **Informe Mensual (Informe de Cierre Parcial)**, el cual incluye las tareas realizadas en los edificios del proyecto de referencia.

Hasta el momento se han realizado las siguientes tareas:

6,888 pies líneas de TSI & 2,500 cuadrados de "Transite" removidos en Caldera4

Las 320 yardas cubicas generadas durante los trabajos de mitigación fue debidamente almacenadas en contenedores de 40 yardas, y dispuestas según los requerimientos para estos propósitos.

Copias de hojas de cadena de custodia, resumen de tareas diarias y manifiestos de disposición serán entregados en el Informe Final de Cierre del Permiso de Referencia, según requerido la condición # 48 del permiso.

Esperamos esta información, les sea de utilidad. Si usted tiene alguna pregunta o necesita información adicional al respecto, por favor no dude en comunicarse con una servidora, a su conveniencia.

Cordialmente,

Tamara Echevarría
Asistente Gerente de Proyecto
tamara@homecainc.com
Office: 787-689-6150
Mobile: 787-632-6173
1575 Ave. Muñoz Rivera PMB 120
Ponce, PR 00717-0211

HOMECA
RECYCLING
Enviroumental and Demolition Services

12 de Marzo de 2012

Ing. Luis Sierra
Junta de Calidad Ambiental
Área de Calidad de Aire
Apartado 11488
San Juan, PR 0091

RE: Permiso # PG-ASB-57-09-11-0112RC
Desmantelamiento Antigua PR Olefins
Bo. Tallaboa Poniente Carretera PR#127
Interior PR #385 Peñuelas, PR 00624

En cumplimiento con la condición de permiso # 47, del Permiso General para el Manejo de Materiales con Contenido de Asbesto, a continuación incluimos el **Informe Mensual (Informe de Cierre Parcial)**, el cual incluye las tareas realizadas en los edificios del proyecto de referencia.

Hasta el momento se han realizado las siguientes tareas:

21,540 pies líneas de TSI & 5,000 pies cuadrados de "Transite" removidos en Caldera 5 y 6

De las yardas generadas durante los trabajos de mitigación se dispuso 240 yardas cubicas. La diferencia de las yardas generadas durante los trabajos de mitigación fue debidamente almacenadas en contenedores de 40 yardas. Todos los trabajos fueron realizados según los requerimientos para estos propósitos.

Copias de hojas de cadena de custodia, resumen de tareas diarias y manifiestos de disposición serán entregados en el Informe Final de Cierre del Permiso de Referencia, según requerido la condición # 48 del permiso.

Esperamos esta información, les sea de utilidad. Si usted tiene alguna pregunta o necesita información adicional al respecto, por favor no dude en comunicarse con una servidora, a su conveniencia.

Cordialmente,

Xiomara Torres
Asistente Administrativo
xiomara.homeca@gmail.com
Office: 787-689-6150
1575 Ave. Muñoz Rivera PMB 120
Ponce, PR 00717-0211

HOMECA
RECYCLING
Environmental and Demolition Services

13 de abril del 2012

Ing. Luis Sierra
Junta de Calidad Ambiental
Área de Calidad de Aire
Apartado 11488
San Juan, PR 0091

RE: Permiso # PG-ASB-57-09-11-0112RC
Desmantelamiento Antigua PR Olefins
Bo. Tallaboa Poniente Carretera PR#127
Interior PR #385 Peñuelas, PR 00624

En cumplimiento con la condición de permiso # 47, del Permiso General para el Manejo de Materiales con Contenido de Asbesto, a continuación incluimos el **Informe Mensual (Informe de Cierre Parcial)**, el cual incluye las tareas realizadas en los edificios del proyecto de referencia.

Hasta el momento se han realizado las siguientes tareas:

29,490 pies líneas removidos en Caldera 5 y 6

Las 560 yardas cubicas generadas durante los trabajos de mitigación fue debidamente almacenadas en contenedores de 40 yardas, y dispuestas según los requerimientos para estos propósitos.

Copias de hojas de cadena de custodia, resumen de tareas diarias y manifiestos de disposición serán entregados en el Informe Final de Cierre del Permiso de Referencia, según requerido la condición # 48 del permiso.

Esperamos esta información, les sea de utilidad. Si usted tiene alguna pregunta o necesita información adicional al respecto, por favor no dude en comunicarse con una servidora, a su conveniencia.

Cordialmente,

Tamara Echevarría
Asistente Gerente de Proyecto
tamara@homecainc.com
Office: 787-689-6150
Mobile: 787-632-6173
1575 Ave. Muñoz Rivera PMB 120
Ponce, PR 00717-0211

HOMECA
RECYCLING
Environmental and Demolition Services

13 de mayo del 2012

Ing. Luis Sierra
Junta de Calidad Ambiental
Área de Calidad de Aire
Apartado 11488
San Juan, PR 0091

RE: Permiso # PG-ASB-57-09-11-0112RC
Desmantelamiento Antigua PR Olefins
Bo. Tallaboa Poniente Carretera PR#127
Interior PR #385 Peñuelas, PR 00624

En cumplimiento con la condición de permiso # 47, del Permiso General para el Manejo de Materiales con Contenido de Asbesto, a continuación incluimos el **Informe Mensual (Informe de Cierre Parcial)**, el cual incluye las tareas realizadas en los edificios del proyecto de referencia.

Hasta el momento se han realizado las siguientes tareas:

24,180 pies líneas removidos en el Área # 8

Las 600 yardas cubicas generadas durante los trabajos de mitigación fue debidamente almacenadas en contenedores de 40 yardas, y dispuestas según los requerimientos para estos propósitos.

Copias de hojas de cadena de custodia, resumen de tareas diarias y manifiestos de disposición serán entregados en el Informe Final de Cierre del Permiso de Referencia, según requerido la condición # 48 del permiso.

Esperamos esta información, les sea de utilidad. Si usted tiene alguna pregunta o necesita información adicional al respecto, por favor no dude en comunicarse con una servidora, a su conveniencia.

Cordialmente,

Tamara Echevarría
Asistente Gerente de Proyecto
tamara@homecainc.com
Office: 787-689-6150
Mobile: 787-632-6173
1575 Ave. Muñoz Rivera PMB 120
Ponce, PR 00717-0211

HOMECA
RECYCLING
Environmental and Demolition Services

15 de junio del 2012

Ing. Luis Sierra
Junta de Calidad Ambiental
Área de Calidad de Aire
Apartado 11488
San Juan, PR 0091

RE: **Permiso # PG-ASB-57-09-11-0112RC**
Desmantelamiento Antigua PR Olefins
Bo. Tallaboa Poniente Carretera PR#127
Interior PR #385 Peñuelas, PR 00624

En cumplimiento con la condición de permiso # 47, del Permiso General para el Manejo de Materiales con Contenido de Asbesto, a continuación incluimos el **Informe Mensual (Informe de Cierre Parcial)**, el cual incluye las tareas realizadas en los edificios del proyecto de referencia.

Hasta el momento se han realizado las siguientes tareas:

2,300 pies líneas removidos en el Rack Central

Las 720 yardas cubicas generadas durante los trabajos de mitigación fue debidamente almacenadas en contenedores de 40 yardas, y dispuestas según los requerimientos para estos propósitos.

Copias de hojas de cadena de custodia, resumen de tareas diarias y manifiestos de disposición serán entregados en el Informe Final de Cierre del Permiso de Referencia, según requerido la condición # 48 del permiso.

Esperamos esta información, les sea de utilidad. Si usted tiene alguna pregunta o necesita información adicional al respecto, por favor no dude en comunicarse con una servidora, a su conveniencia.

Cordialmente,

Xiomara Torres
Asistente Administrativo
tamara@homecainc.com
Office: 787-689-6150
Mobile: 787-632-6173
1575 Ave. Muñoz Rivera PMB 120
Ponce, PR 00717-0211

HOMECA INC
RECYCLING
Environmental and Demolition Services

15 de julio del 2012

Ing. Luis Sierra
Junta de Calidad Ambiental
Área de Calidad de Aire
Apartado 11488
San Juan, PR 0091

RE: **Permiso # PG-ASB-57-09-11-0112RC**
Desmantelamiento Antigua PR Olefins
Bo. Tallaboa Poniente Carretera PR#127
Interior PR #385 Peñuelas, PR 00624

En cumplimiento con la condición de permiso # 47, del Permiso General para el Manejo de Materiales con Contenido de Asbesto, a continuación incluimos el **Informe Mensual (Informe de Cierre Parcial)**, el cual incluye las tareas realizadas en los edificios del proyecto de referencia.

Hasta el momento se han realizado las siguientes tareas:

6,700 pies líneas removidos en el área #9

Copias de hojas de cadena de custodia, resumen de tareas diarias y manifiestos de disposición serán entregados en el Informe Final de Cierre del Permiso de Referencia, según requerido la condición # 48 del permiso.

Esperamos esta información, les sea de utilidad. Si usted tiene alguna pregunta o necesita información adicional al respecto, por favor no dude en comunicarse con una servidora, a su conveniencia.

Cordialmente,

Xiomara Torres
Asistente Administrativo
tamara@homecainc.com
Office: 787-689-6150
Mobile: 787-632-6173
1575 Ave. Muñoz Rivera PMB 120
Ponce, PR 00717-0211

HOMECA
RECYCLING
Environmental and Demolition Services

15 de agosto del 2012

Ing. Luis Sierra
Junta de Calidad Ambiental
Área de Calidad de Aire
Apartado 11488
San Juan, PR 0091

RE: Permiso # PG-ASB-57-09-11-0112RC
Desmantelamiento Antigua PR Olefins
Bo. Tallaboa Poniente Carretera PR#127
Interior PR #385 Peñuelas, PR 00624

En cumplimiento con la condición de permiso # 47, del Permiso General para el Manejo de Materiales con Contenido de Asbesto, a continuación incluimos el **Informe Mensual (Informe de Cierre Parcial)**, el cual incluye las tareas realizadas en los edificios del proyecto de referencia.

Hasta el momento se han realizado las siguientes tareas:

13,200 pies líneas removidos en el Área #9

Las 240 yardas cubicas generadas durante los trabajos de mitigación fue debidamente almacenadas en contenedores de 40 yardas, y dispuestas según los requerimientos para estos propósitos.

Copias de hojas de cadena de custodia, resumen de tareas diarias y manifiestos de disposición serán entregados en el Informe Final de Cierre del Permiso de Referencia, según requerido la condición # 48 del permiso.

Esperamos esta información, les sea de utilidad. Si usted tiene alguna pregunta o necesita información adicional al respecto, por favor no dude en comunicarse con una servidora, a su conveniencia.

Cordialmente,

Xiomara Torres
Asistente Administrativo
tamara@homecainc.com
Office: 787-689-6150
Mobile: 787-632-6173
1575 Ave. Muñoz Rivera PMB 120
Ponce, PR 00717-0211

HOMECA
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Environmental and Demolition Services

15 de septiembre del 2012

Ing. Luis Sierra
Junta de Calidad Ambiental
Área de Calidad de Aire
Apartado 11488
San Juan, PR 0091

RE: **Permiso # PG-ASB-57-09-11-0112RC**
Desmantelamiento Antigua PR Olefins
Bo. Tallaboa Poniente Carretera PR#127
Interior PR #385 Peñuelas, PR 00624

En cumplimiento con la condición de permiso # 47, del Permiso General para el Manejo de Materiales con Contenido de Asbesto, a continuación incluimos el **Informe Mensual (Informe de Cierre Parcial)**, en el cual le informamos que este mes no se realizó trabajos de remoción.

Esperamos esta información, les sea de utilidad. Si usted tiene alguna pregunta o necesita información adicional al respecto, por favor no dude en comunicarse con una servidora, a su conveniencia.

Cordialmente,

Xiomara Torres
Asistente Administrativo
tamara@homecainc.com
Office: 787-689-6150
Mobile: 787-632-6173
1575 Ave. Muñoz Rivera PMB 120
Ponce, PR 00717-0211

HOMECA
RECYCLING
Environmental and Demolition Services

26 de Octubre de 2012

Sr. Luis A. Sierra
Junta de Calidad Ambiental
Área de Calidad de Aire
Apartado 11488
San Juan, PR 00910

2012 DEC 11 PM 3:35

Re: Permiso # PG-ASB-57-1328175-RC
Desmantelamiento Antigua Planta Olefins
Peñuelas, PR

Estimada señor Sierra:

Según se indicara en el permiso en referencia, hacemos la notificación a la JCA y su Área de Calidad de Aire que comenzaremos los trabajos de remoción de asbesto en la Antigua Planta Olefins el día 11 de diciembre de 2012

El proyecto está ubicado en Carr. 385 Km 5.4 Tallaboa Poniente Sec. El Pueblito, Peñuelas, PR. El trabajo a realizarse consistirá en la remoción de alrededor de 800 pies lineales aproximadamente de "TSI" insulacion termal y 80 pies cuadrados de "Transite" planchas de asbesto cemento según el estudio. De tener alguna duda o pregunta, favor de comunicarse a nuestras oficinas al (787) 841-2233.

Atentamente,

Eduardo Ramos Vera
Gerente General

1575 MUÑOZ RIVERA AVE. PMB 120 PONCE, PR 00717-0211
TEL. (787) 841-2223 ▪ FAX (787) 984-0059

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RX 6
Page 835 of 1,639

HOMECA RECYCLING Inc.
Environmental, Coating and Demolition Services

VIA FAX: 787-756-5906

28 de enero de 2013

Área de Calidad de Aire
Junta de Calidad Ambiental
Apartado 11488
San Juan, PR 00910

2013 FEB 15 PM 3:39

RE: Permiso General Manejo de Materiales con Contenido de Asbesto
PG-ASB-57-1212-0175-RC
Desmantelamiento Antigua Planta PR Olefins
Carretera PR 127 Km. 19.2
Bo. Tallaboa Poniente Sector El Pueblito
Peñuelas, PR 00624

Estimados Señores (as)

Le queremos notificar nuestra intención de comenzar las labores de mitigación de Asbesto en el proyecto de Referencia este 28 de enero de 2013.

Cualquier información adicional al respecto puede comunicarse con una servidora al (787) 415-2702.

Cordialmente,

X. Torres

Xiomara Torres
Asistente Administrativo

Enviado el 01/28/13
via fax

1575 MUÑOZ RIVERA AVE. PMB 120 PONCE, PR 00717-0211
TEL. (787)841-2223 FAX (787) 984-0059

Gmail by Google

Xiomara Torres-Rivera< xiomara.homeca@gmail.com>

Notificacion Comienzo Trabajo PG-ASB-57-1212-0175-RC

1 message

Xiomara Torres-Rivera < xiomara.homeca@gmail.com> Mon, Jan 28, 2013 at 7:54 AM
To: LuisSierra@jca.gobierno.pr

Buenos Dias,

Adjunto carta de notificacion comienzo de trabajo para su revisión. El documento original le será entregado en el proximo viaje a JCA San Juan.

Lindo Día!!!

Xiomara Torres
Asistente Administrativo
Homeca Recycling and Demolition
Tel: 787-415-2702

notificación comienzo procaribe.pdf
40K

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RX 6
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Page 837 of 1,639

HOMECA
RECYCLING
Environmental and Demolition Services

15 de febrero de 2013

2013 FEB 15 PM 3:39

Junta de Calidad Ambiental
Área de Calidad de Aire
Apartado 11488
San Juan, PR 0091

RE: **Permiso # PG-ASB-57-12-12-0175-RC**
Desmantelamiento Antigua PR Olefins
Bo. Tallaboa Poniente Carretera PR#127
Interior PR #385 Peñuelas, PR 00624

En cumplimiento con la condición de permiso # 47, del Permiso General para el Manejo de Materiales con Contenido de Asbesto, a continuación incluimos el **Informe Mensual (Informe de Cierre Parcial)**, notificando que **no hubo tareas de remoción** durante el periodo del 1 al 31 de enero de 2013, los mismos comenzaron en febrero de 2013.

Esperamos esta información, les sea de utilidad. Si usted tiene alguna pregunta o necesita información adicional al respecto, por favor no dude en communicarse con una servidora, a su conveniencia.

Cordialmente,

Tamara Echevarría
Directora Departamento de Cumplimiento
tamara@homecainc.com
Office: 787-841-2223
Mobile: 787-632-6173
1575 Ave. Muñoz Rivera PMB 120
Ponce, PR 00717-0211

HOMECA RECYCLING
Environmental and Demolition Services

14 de marzo del 2013

2013 MAR 20 P1:12:45

Ing. Luis Sierra
Junta de Calidad Ambiental
Área de Calidad de Aire
Apartado 11488
San Juan, PR 0091

RE: Permiso # PG-ASB-57-12-12-0175-RC
Desmantelamiento Antigua PR Olefins
Bo. Tallaboa Poniente Carretera PR#127
Interior PR #385 Peñuelas, PR 00624

En cumplimiento con la condición de permiso # 47, del Permiso General para el Manejo de Materiales con Contenido de Asbesto, a continuación incluimos el **Informe Mensual (Informe de Cierre Parcial)**, el cual incluye las tareas realizadas en el proyecto de referencia.

Hasta el momento se han realizado las siguientes tareas:

6,185 pies líneas removidos en tubería # 10

Las 160 yardas cubicas generadas durante los trabajos de mitigación fue debidamente almacenadas en contenedores de 40 yardas, y dispuestas según los requerimientos para estos propósitos.

Copias de hojas de cadena de custodia, resumen de tareas diarias y manifiestos de disposición serán entregados en el Informe Final de Cierre del Permiso de Referencia, según requerido la condición # 48 del permiso.

Esperamos esta información, les sea de utilidad. Si usted tiene alguna pregunta o necesita información adicional al respecto, por favor no dude en comunicarse con una servidora, a su conveniencia.

Cordialmente,

Xiomara Torres

Xiomara Torres
Asistente Administrativo
xiomara@homecainc.com
Office: 787-841-2223
Mobile: 787-415-2702
1575 Ave. Muñoz Rivera PMB 120
Ponce, PR 00717-0211

Gmail by Google

Tamara Echevarria <tamara.homeca@gmail.com>

Parcial Procaribe

Xiomara Torres-Rivera <xiomara.homeca@gmail.com> Thu, Mar 14, 2013 at 1:59 PM
To: LuisSierra@jca.gobierno.pr
Bcc: tamara@homecainc.com

Saludos Ing. Sierra,

Adjunto informe parcial para su revision. El documento original le será entregado en el proximo viaje a JCA San Juan. Cualquier duda favor
comunicarse con una servidora.

Gracias!!!

–
Xiomara Torres
Asistente Administrativo
Homeca Recyding and Demolition
Tel: 787-415-2702

parcial.pdf
198K

* * * Communication Result Report (Mar. 15. 2013 10:13AM) * * *

Fax Header) ENVIRORECYCLING

Date/Time: Mar. 15. 2013 10:12AM

File No.	Mode	Destination	Pg(s)	Result	Page Not Sent
8324	Memory TX	17877678118	P. 4	OK	

Reason for error
E. 1) Hang up or line fail
E. 2) Busy
E. 3) No answer
E. 4) No facsimile connection
E. 5) Exceeded max. E-mail size

HOMECA RECYCLING

14 de marzo del 2013

Ing. Luis Sierra
Junta de Calidad Ambiental
Area de Calidad de Aire
Apartado 11488
San Juan, PR 00910

RE: Permiso # PC-ASB-97-12-32-0175-RC
Departamento Antiguo ER Oficina
Bo. Tallaboa, Peñuelas Carretera 127
Interior PR-3315 Peñuelas, PR 00624

En cumplimiento con la condición de permiso # 47, del Permiso General para el Manejo de Materiales con Contenido de Asbesto, a continuación incluimos el Informe Mensual (Informe de Cierre Parcial), el cual incluye las horas realizadas en el proyecto de referencia.

Hasta el momento se han realizado las siguientes horas:

5,325 pies lineales convertidos en tubería de 20

Los 140 yardas cúbicas generados durante los trabajos de subgrada fue debidamente almacenados en contenedores de 40 yardas, y dispuestos según los requerimientos para estos propósitos.

Copias de hojas de cadena de custodia, recibos de pesos finales y manifiestos de disposición serán entregados en el Informe Final de Cierre del Permiso de Relocación, según requerido la condición # 42 del permiso.

Esperamos esta información les sea de utilidad. Si usted tiene alguna pregunta o necesita información adicional al respecto, por favor no dude en comunicarse con una servidora, a su conveniencia.

Cordialmente,

Xiomara Torres
Asistente Administrativo
xiomara@homecarica.com
Office: 787-647-2223
Mobile: 787-435-2702
1525 Ave. Muñoz Rivera PMB 220
Ponce, PR 00717-0211

000775

RX 6

CONFIDENTIAL & PRIVILEGE

HOMECA
RECYCLING
Environmental and Demolition Services

14 de marzo del 2013

Ing. Luis Sierra
Junta de Calidad Ambiental
Área de Calidad de Aire
Apartado 11488
San Juan, PR 0091

RE: **Permiso # PG-ASB-57-12-12-0175-RC**
Desmantelamiento Antigua PR Olefins
Bo. Tallaboa Poniente Carretera PR#127
Interior PR #385 Peñuelas, PR 00624

En cumplimiento con la condición de permiso # 47, del Permiso General para el Manejo de Materiales con Contenido de Asbesto, a continuación incluimos el **Informe Mensual (Informe de Cierre Parcial)**, el cual incluye las tareas realizadas en el proyecto de referencia.

Hasta el momento se han realizado las siguientes tareas:

6,185 pies líneas removidos en tubería # 10

Las 160 yardas cubicas generadas durante los trabajos de mitigación fue debidamente almacenadas en contenedores de 40 yardas, y dispuestas según los requerimientos para estos propósitos.

Copias de hojas de cadena de custodia, resumen de tareas diarias y manifiestos de disposición serán entregados en el Informe Final de Cierre del Permiso de Referencia, según requerido la condición # 48 del permiso.

Esperamos esta información, les sea de utilidad. Si usted tiene alguna pregunta o necesita información adicional al respecto, por favor no dude en comunicarse con una servidora, a su conveniencia.

Cordialmente,

Xiomara Torres

Xiomara Torres
Asistente Administrativo
xiomara@homecainc.com
Office: 787-841-2223
Mobile: 787-415-2702
1575 Ave. Muñoz Rivera PMB 120
Ponce, PR 00717-0211

HOMECA
RECYCLING
Environmental and Demolition Services

15 de abril del 2013

Ing. Luis Sierra
Junta de Calidad Ambiental
Área de Calidad de Aire
Apartado 11488
San Juan, PR 0091

2013 APR 16 PM 1:43

RE: **Permiso # PG-ASB-57-12-12-0175-RC**
Desmantelamiento Antigua PR Olefins
Bo. Tallaboa Poniente Carretera PR#127
Interior PR #385 Peñuelas, PR 00624

En cumplimiento con la condición de permiso # 47, del Permiso General para el Manejo de Materiales con Contenido de Asbesto, a continuación incluimos el **Informe Mensual (Informe de Cierre Parcial)**, el cual incluye las tareas realizadas en el proyecto de referencia.

Hasta el momento se han realizado las siguientes tareas:

2,170 pies líneas removidos en tubería # 10

Las 40 yardas cubicas generadas durante los trabajos de mitigación fue debidamente almacenadas en contenedores de 40 yardas, y dispuestas según los requerimientos para estos propósitos.

Copias de hojas de cadena de custodia, resumen de tareas diarias y manifiestos de disposición serán entregados en el Informe Final de Cierre del Permiso de Referencia, según requerido la condición # 48 del permiso.

Esperamos esta información, les sea de utilidad. Si usted tiene alguna pregunta o necesita información adicional al respecto, por favor no dude en comunicarse con una servidora, a su conveniencia.

Cordialmente,

Xiomara Torres
Asistente Administrativo
xiomara@homecainc.com
Office: 787-841-2223
Mobile: 787-415-2702
1575 Ave. Muñoz Rivera PMB 120
Ponce, PR 00717-0211

000777

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HOMECA
RECYCLING
Environmental and Demolition Services

15 de mayo del 2013

Ing. Luis Sierra
Junta de Calidad Ambiental
Área de Calidad de Aire
Apartado 11488
San Juan, PR 0091

RE: **Permiso # PG-ASB-57-12-12-0175-RC**
Desmantelamiento Antigua PR Olefins
Bo. Tallaboa Poniente Carretera PR#127
Interior PR #385 Peñuelas, PR 00624

En cumplimiento con la condición de permiso # 47, del Permiso General para el Manejo de Materiales con Contenido de Asbesto, a continuación incluimos el **Informe Mensual (Informe de Cierre Parcial)**, el cual incluye las tareas realizadas en el proyecto de referencia.

Hasta el momento no se han realizado tareas de remoción:

Las yardas generadas durante los trabajos de mitigación fueron debidamente almacenadas en contenedores de 40 yardas, y dispuestas según los requerimientos para estos propósitos.

Copias de hojas de cadena de custodia, resumen de tareas diarias y manifiestos de disposición serán entregados en el Informe Final de Cierre del Permiso de Referencia, según requerido la condición # 48 del permiso.

Esperamos esta información, les sea de utilidad. Si usted tiene alguna pregunta o necesita información adicional al respecto, por favor no dude en comunicarse con una servidora, a su conveniencia.

Cordialmente,

Xiomara Torres
Asistente Administrativo
xiomara@homecainc.com
Office: 787-841-2223
Mobile: 787-415-2702
1575 Ave. Muñoz Rivera PMB 120
Ponce, PR 00717-0211

000778

HOMECA
RECYCLING
Environmental and Demolition Services

15 de junio del 2013

Ing. Luis Sierra
Junta de Calidad Ambiental
Área de Calidad de Aire
Apartado 11488
San Juan, PR 0091

RE: **Permiso # PG-ASB-57-12-12-0175-RC**
Desmantelamiento Antigua PR Olefins
Bo. Tallaboa Poniente Carretera PR#127
Interior PR #385 Peñuelas, PR 00624

En cumplimiento con la condición de permiso # 47, del Permiso General para el Manejo de Materiales con Contenido de Asbesto, a continuación incluimos el **Informe Mensual (Informe de Cierre Parcial)**, el cual incluye las tareas realizadas en el proyecto de referencia.

Hasta el momento no se han realizado tareas de remoción:

JUNTA CALIDAD AMBIENTAL
RADICACIÓN
2013 JUL 12 PM 12:52

Copias de hojas de cadena de custodia, resumen de tareas diarias y manifiestos de disposición serán entregados en el Informe Final de Cierre del Permiso de Referencia, según requerido la condición # 48 del permiso.

Esperamos esta información, les sea de utilidad. Si usted tiene alguna pregunta o necesita información adicional al respecto, por favor no dude en comunicarse con una servidora, a su conveniencia.

Cordialmente,

Xiomara Torres

Xiomara Torres
Asistente Administrativo
xiomara@homecainc.com
Office: 787-841-2223
Mobile: 787-415-2702
1575 Ave. Muñoz Rivera PMB 120
Ponce, PR 00717-0211

JUNTA CALIDAD AMBIENTAL
RADICACIÓN
2013 JUL 12 PM 12:52

000770

CONFIDENTIAL & PRIVILEGE

HOMECA
RECYCLING
Environmental and Demolition Services

15 de julio del 2013

Ing. Luis Sierra
Junta de Calidad Ambiental
Área de Calidad de Aire
Apartado 11488
San Juan, PR 0091

2013 JUL 12 PM 2:55
RADICACION

RE: **Permiso # PG-ASB-57-12-12-0175-RC**
Desmantelamiento Antigua PR Olefins
Bo. Tallaboa Poniente Carretera PR#127
Interior PR #385 Peñuelas, PR 00624

En cumplimiento con la condición de permiso # 47, del Permiso General para el Manejo de Materiales con Contenido de Asbesto, a continuación incluimos el **Informe Mensual (Informe de Cierre Parcial)**, el cual incluye las tareas realizadas en el proyecto de referencia.

Hasta el momento no se han realizado tareas de remoción:

Copias de hojas de cadena de custodia, resumen de tareas diarias y manifiestos de disposición serán entregados en el Informe Final de Cierre del Permiso de Referencia, según requerido la condición # 48 del permiso.

Esperamos esta información, les sea de utilidad. Si usted tiene alguna pregunta o necesita información adicional al respecto, por favor no dude en comunicarse con una servidora, a su conveniencia.

Cordialmente,

Xiomara Torres
Asistente Administrativo
xiomara@homecainc.com
Office: 787-841-2223
Mobile: 787-415-2702
1575 Ave. Muñoz Rivera PMB 120
Ponce, PR 00717-0211

000780

HOMECA INC
RECYCLING
Environmental and Demolition Services

15 de agosto del 2013

Ing. Luis Sierra
Junta de Calidad Ambiental
Área de Calidad de Aire
Apartado 11488
San Juan, PR 0091

2013 AUG 13 PM 3:01 RECIBIDO

RE: **Permiso # PG-ASB-57-12-12-0175-RC**
Desmantelamiento Antigua PR Olefins
Bo. Tallaboa Poniente Carretera PR#127
Interior PR #385 Peñuelas, PR 00624

En cumplimiento con la condición de permiso # 47, del Permiso General para el Manejo de Materiales con Contenido de Asbesto, a continuación incluimos el **Informe Mensual (Informe de Cierre Parcial)**, el cual incluye las tareas realizadas en el proyecto de referencia.

Hasta el momento no se han realizado tareas de remoción:

Copias de hojas de cadena de custodia, resumen de tareas diarias y manifiestos de disposición serán entregados en el Informe Final de Cierre del Permiso de Referencia, según requerido la condición # 48 del permiso.

Esperamos esta información, les sea de utilidad. Si usted tiene alguna pregunta o necesita información adicional al respecto, por favor no dude en comunicarse con una servidora, a su conveniencia.

Cordialmente,

Xiomara Torres
Asistente Administrativo
xiomara@homecainc.com
Office: 787-841-2223
Mobile: 787-415-2702
1575 Ave. Muñoz Rivera PMB 120
Ponce, PR 00717-0211

HOMECA RECYCLING
Environmental and Demolition Services

15 de octubre del 2013

Ing. Luis Sierra
Junta de Calidad Ambiental
Área de Calidad de Aire
Apartado 11488
San Juan, PR 0091

RE: **Permiso # PG-ASB-57-12-12-0175-RC**
Desmantelamiento Antigua PR Olefins
Bo. Tallaboa Poniente Carretera PR#127
Interior PR #385 Peñuelas, PR 00624

En cumplimiento con la condición de permiso # 47, del Permiso General para el Manejo de Materiales con Contenido de Asbesto, a continuación incluimos el **Informe Mensual (Informe de Cierre Parcial)**, el cual incluye las tareas realizadas en el proyecto de referencia.

Hasta el momento no se han realizado tareas de remoción:

Copias de hojas de cadena de custodia, resumen de tareas diarias y manifiestos de disposición serán entregados en el Informe Final de Cierre del Permiso de Referencia, según requerido la condición # 48 del permiso.

Esperamos esta información, les sea de utilidad. Si usted tiene alguna pregunta o necesita información adicional al respecto, por favor no dude en comunicarse con una servidora, a su conveniencia.

Cordialmente,

Xiomara Torres
Asistente Administrativo
xiomara@homecainc.com
Office: 787-841-2223
Mobile: 787-415-2702
1575 Ave. Muñoz Rivera PMB 120
Ponce, PR 00717-0211

HOMECA
RECYCLING
Environmental and Demolition Services

15 de noviembre del 2013

2013 NOV 18 PM 1:51

Ing. Luis Sierra
Junta de Calidad Ambiental
Área de Calidad de Aire
Apartado 11488
San Juan, PR 0091

RE: **Permiso # PC-ASB-57-12-12-0175-RC**
Desmantelamiento Antigua PR Olefins
Bo. Tallaboa Poniente Carretera PR#127
Interior PR #385 Peñuelas, PR 00624

En cumplimiento con la condición de permiso # 47, del Permiso General para el Manejo de Materiales con Contenido de Asbesto; a continuación incluimos el **Informe Mensual (Informe de Cierre Parcial)**, el cual incluye las tareas realizadas en el proyecto de referencia.

Hasta el momento no se han realizado tareas de remoción:

Copias de hojas de cadena de custodia, resumen de tareas diarias y manifiestos de disposición serán entregados en el Informe Final de Cierre del Permiso de Referencia, según requerido la condición # 48 del permiso.

Esperamos esta información, les sea de utilidad. Si usted tiene alguna pregunta o necesita información adicional al respecto, por favor no dude en comunicarse con una servidora, a su conveniencia.

Cordialmente,

Xiomara Torres

Xiomara Torres
Asistente Administrativo
xiomara@homecainc.com
Office: 787-841-2223
Mobile: 787-415-2702
1575 Ave. Muñoz Rivera PMB 120
Ponce, PR 00717-0211

Gmail by Google

Xiomara Torres-Rivera< xiomara.homeca@gmail.com>

Parcial Homeca (Peñuelas)

1 message

Xiomara Torres-Rivera < xiomara.homeca@gmail.com> Fri, Nov 15, 2013 at 10:32 AM
To: LuisSierra@jca.gobierno.pr

Saludos Ing. Sierra,

Adjunto informe parcial para su revision. El documento original le será entregado en el proximo viaje a JCA San Juan. Cualquier duda favor comunicarse con una servidora.

Gracias!!!

—
Xiomara Torres
Asistente Administrativo
Homeca Recycling and Demolition
Tel: 787-415-2702

PARCIAL NOVIEMBRE.pdf
44K

CROQUIS DE LAS ESTRUCTURAS A DEMOLER

DESMANTELAMIENTO DE LA ANTIGUAS FACILIDADES DE PUERTO RICO OLEFINS

Tallaboa Industrial Park
Carr. 127 km 19.1
Sector El Pueblito
Bo. Tallaboa Poniente,
Peñuelas
Puerto Rico 00624

PROPIEDAD DE
TALLABOA INDUSTRIAL PARK

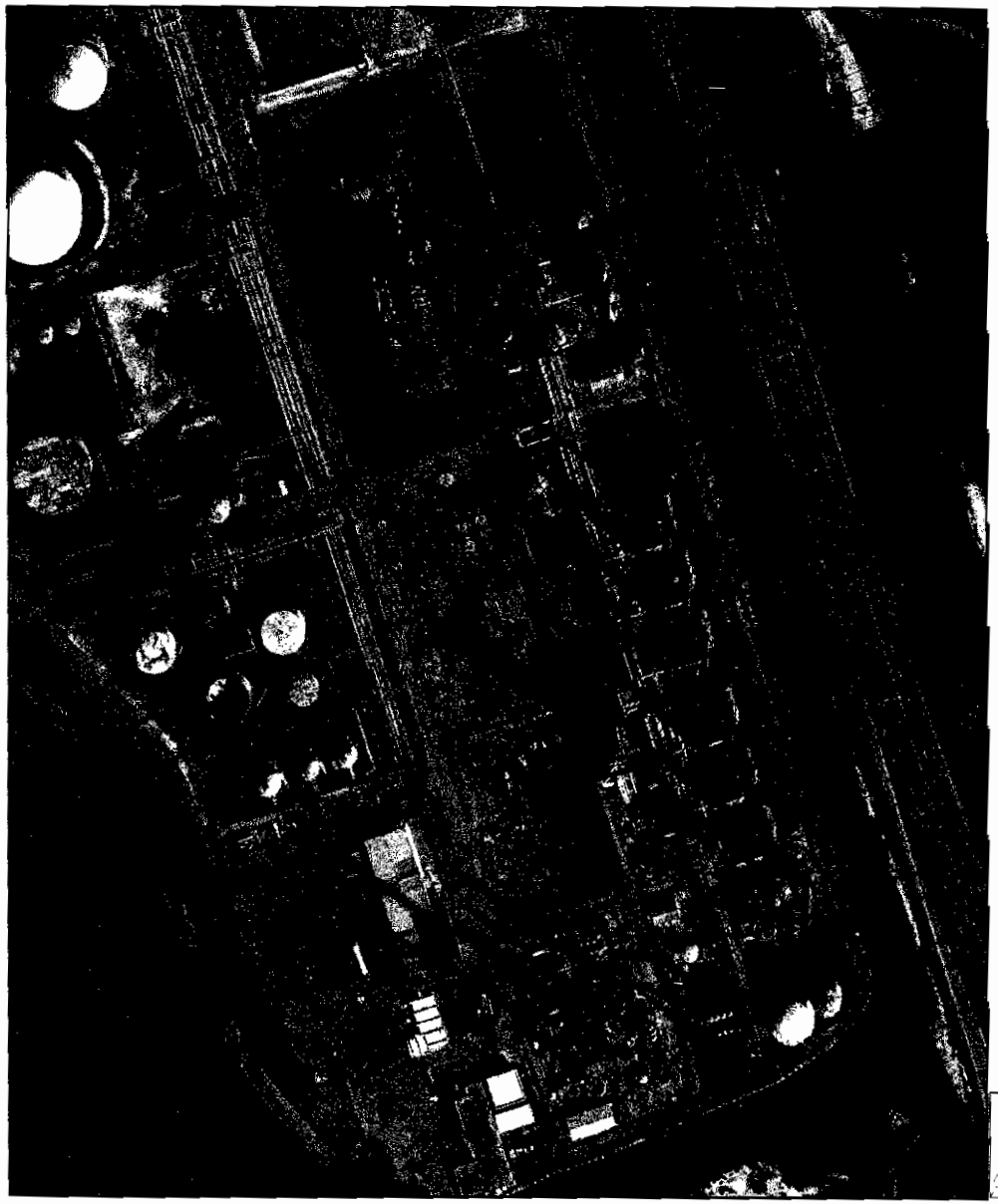
HOMECA RECYCLING CENTER CO. INC.
PO Box 231, Mercedita
Puerto Rico 00715

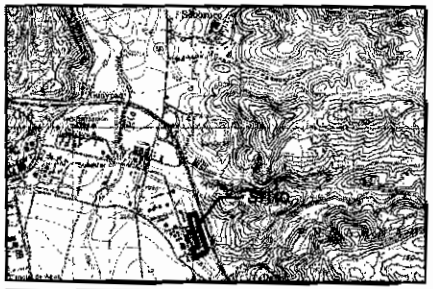
LEYENDA Y NOTAS:

ESTRUCTURA @ DESMANTELAR

LINEAS QUE DEMARCAN EL AREA APROXIMADA A SER IMPACTADA

NOTA: ÁREA @ DESMANTELAR = 95,441.3537 PC = 8,866.7919 MC





MAPA TOPOGRAFICO
X=169,155.1644 Y=218,911.7394



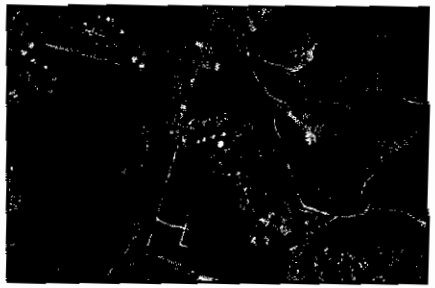


FOTO AERIEA

DESCRIPCION:
MAPA TOPOGRÁFICO, MAPA DE FEMA, PLANO DE SITUACION Y TABLA DE MENSURA

REVISADO POR:		S-1	1
DIBUJADO POR:			1
FECHA:	DICIEMBRE 2013		
ESCALA:	1:2,000		

Yo, José Luis Rivera Figueroa, numero de licencia 17816 certifico que soy el profesional que diseño estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de las Agencias, Juntas Reglamentadoras u Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido sin conocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPE y otras autoridades competentes incluyendo, pero sin limitarse, a la terminación de la participación en los procedimientos de certificación profesional en la OGPE.

CONFIDENTIAL & PRIVILEDGE

RX 6
Page 851 of 1,639
000786

U.S. EPA NOTIFICATION OF DEMOLITION AND RENOVATION

Operator Project #	Postmark	Date Received	Notification #

I. Type of Notification (check one): [X] Original [ ] Revised [ ] Canceled

II. Facility Description

Building Name: Old Puerto Rico Olefins Plant

Address: PR 385 Km. 5.4 Tallaboa Poniente Ward

City: Peñuelas State: PR Zip Code: 00624 County: USA

Site Location: PR 358 Km 5.4 Tallaboa Poniente Ward Peñuelas, PR 00624

Building Size (square feet): 500,000 + # of Floors: _____ Age in Years: 40 +

Present Use: Abandoned Prior Use: Petrochemical Complex

U.S. ENV. PROT. AGENCY
2010 MAR -2 PM 4:
CEPD-DIRECTOR'S OFFICE

III. Type of Operation (check one): [X] Demo [ ] Ordered Demo [ ] Renovation [ ] Emergency Renovation [ ] Owner Leaving

IV. Is Asbestos Present? (check one): [X] Yes [ ] No

V. Facility Information

Owner Name: Tallaboa Industrial Park

Address: PR 385 Km. 5.4 Tallaboa Poniente Ward

City: Peñuelas State: PR Zip Code: 00624

Contact: Mr. Roberto Aponte Telephone: (939)940-2074 Fax: _____

Removal Contractor Name: Homeca Recycling Center Co. Inc

Address: PO BOX 231

City: Mercedita State: PR Zip Code: 00715

Contact: Eng. Luzdellys Echevarría Telephone: (787)689-6150 Fax: 787-259-9084

Other Operator (demolition/general): Homeca Recycling Center Co. Inc

Address: PO BOX 231

City: Mercedita State: PR Zip Code: 00715

Contact: Eng. Luzdellys Echevarría Telephone: (787)689-6150 Fax: 787-259-9084

VI. Procedure, including analytical methods, employed to detect the presence of and to estimate the quantity of RACM and Category I and Category II non-friable ACM: Bulk Samples Laboratory Analysis

VII. Approximate Amount of Asbestos Materials:

	RACM to be Removed	Non-friable Asbestos Material to be Removed		Non-friable Asbestos Material NOT to be Removed	
		Category I	Category II	Category I	Category II
Pipes (linear feet)	10,000				
Surface Area (square feet)			12,000		
Facility Components (cubic feet)					

VIII. Scheduled Dates Demolition or Renovation: Start: 3/13/2010 Complete: 3/12/2011

IX. Dates for Asbestos Removal (MM/DD/YY) Start: 3/13/2010 Complete: 3/12/2011

Days of the Week:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Hours of Operation:	24 HRS	24 HRS	24 HRS	24 HRS	24 HRS	24 HRS	24 HRS

000787

RX 6

CONFIDENTIAL & PRIVILEDGE

U.S. EPA NOTIFICATION OF DEMOLITION AND RENOVATION

X. Description of planned Demolition or Renovation work to be performed and method(s) to be employed, including demolition or renovation techniques to be used and description of affected facility components:

Dismantling of Plant Equipment / Structures

XI. Description of work practices and engineering controls to be used to comply with the requirements, including asbestos removal and waste handling emission control procedures:

ACM Removal using wet methods and negative pressure enclosures

XII. Waste Transporter #1

Name: RE Environmental Group
Address: PO BOX 479
City: Arroyo State: PR Zip Code: 00714
Contact: Mr. Basilio Ramos Telephone: (787) 864-8855

Waste Transporter #2

Name: Enviorecycling Inc.
Address: 1508 Paseo Fagot Suite # 1
City: Ponce State: PR Zip Code: 00716
Contact: Ms. Lilliam Bonet Telephone: (787) 284-0044

XIII. Waste Disposal

Name: Republic Service
Address: PO BOX 7104
City: Ponce State: PR Zip Code: 00732
Contact: Ms. Wanda Velenzuela Telephone: (787) 841-7775

XIV. Emergency Demolition (complete Item XIV only if this project is an Emergency Demo.)

1. Attach a copy of the Order to this notice.
2. Name of Authority Issuing Order: N/A Title:
3. Authority of Order (Citation of Code):
4. Date of Order (MM/DD/YY): Date Ordered to Begin:

XV. Emergency Renovation (Attach separate sheet with the following information if project is Emergency Renovation.)

1. Date and Hour of the Emergency:
2. Description of the Sudden, Unexpected Event: N/A
3. Explanation of how the event caused unsafe conditions or equipment damage or an unreasonable financial burden.

XVI. Description of procedures to be followed in the event that unexpected RACM is found or non-friable ACM becomes crumbled, pulverized, or reduced to powder. 1) Stop Dismantling Activities , 2) Secure Area, 3) Notify Owner 4) Prepare the area to remove the material

XVII. I certify that an individual trained in the provisions of NESHAP (40 CFR PART 61, SUBPART M) will be on-site during the Demolition or Renovation, and evidence that the required training has been accomplished by this person will be available during normal business hours.

Signature of Owner/Operator	March 1st, 2010	Eng. Luzdelys Echevarria / Operations Manager
	Date	Type or Print Name and Title

XVIII. I acknowledge the existence of laws prohibiting the submission of false or misleading statements, and I certify that facts contained in this notification are true, accurate, and complete.

Signature of Owner/Operator	March 1st, 2010	Eng. Luzdelys Echevarria / Operations Manager
	Date	Type or Print Name and Title

U.S. EPA NOTIFICATION OF DEMOLITION AND RENOVATION

Operator Project #	Postmark	Date Received	Notification #

I. Type of Notification (check one): ☐ Original ☑ Revised ☐ Canceled

II. Facility Description

Building Name: Old Puerto Rico Olefins Plant

Address: PR 385 Km. 5.4 Int. PR 127 Km. 19.1 Tallaboa Poniente Ward

City: Penuelas State: PR Zip Code: 00624 County: USA

Site Location: PR 385 Km. 5.4 Int. PR 127 Km. 19.1 Tallaboa Poniente Ward

Building Size (square feet): 5000,000+ # of Floors: _____ Age in Years: 45+

Present Use: Abandoned Prior Use: Petrochemical Complex

III. Type of Operation (check one): ☑ Demo ☐ Ordered Demo ☐ Renovation ☐ Emergency Renovation ☐ Fire Training

IV. Is Asbestos Present? (check one): ☑ Yes ☐ No

V. Facility Information

Owner Name: Tallaboa Industrial Park

Address: PR 385 Km. 5.4 Int. PR 127 Km. 19.1 Tallaboa Poniente Ward

City: Penuelas State: PR Zip Code: 00624

Contact: Ing. Roberto Aponte Telephone: (939) 940-2074 Fax: (787) 836-2026

Removal Contractor Name: Homeca Recycling Center Co, Inc

Address: PO BOX 231

City: Mercedita State: PR Zip Code: 00715

Contact: Eng. Luzdellys Echevarria Telephone: (787) 458-3737 Fax: (800) 491-1218

Other Operator (demolition/general): Homeca Recycling Center Co, Inc

Address: PO BOX 231

City: Mercedita State: PR Zip Code: 00715

Contact: Eng. Luzdellys Echevarria Telephone: (787) 458-3737 Fax: (800) 491-1218

VI. Procedure, including analytical methods, employed to detect the presence of and to estimate the quantity of RACM and Category I and Category II non-friable ACM:

Bulk Samples Laboratory Analysis

VII. Approximate Amount of Asbestos Materials:

	RACM to be Removed	Non-friable Asbestos Material to be Removed		Non-friable Asbestos Material NOT to be Removed	
		Category I	Category II	Category I	Category II
Pipes (linear feet)	9,000				
Surface Area (square feet)			8,000		
Facility Components (cubic feet)					

VIII. Scheduled Dates Demolition or Renovation: Start: 06/01/11 Complete: 05/31/12

IX. Dates for Asbestos Removal (MM/DD/YY) Start: 10/14/10 Complete: 12/31/11

Days of the Week:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Hours of Operation:	24 hrs	24 hrs	24 hrs	24 hrs	24 hrs	24 hrs	24 hrs

000789

RX 6

U.S. EPA NOTIFICATION OF DEMOLITION AND RENOVATION

X. Description of planned Demolition or Renovation work to be performed and method(s) to be employed, including demolition or renovation techniques to be used and description of affected facility components:

Dismantling of Plant Equipment / Structures

XI. Description of work practices and engineering controls to be used to comply with the requirements, including asbestos removal and waste handling emission control procedures:

ACM Removal using wet methods and negative pressure enclosure.

XII. Waste Transporter #1

Name: RE Environmental Group

Address: PO BOX 479

City: Arroyo State: PR Zip Code: 00714

Contact: Mr. Basilio Ramos Telephone: (787) 884-8855

Waste Transporter #2

Name: Envirorecycling Inc.

Address: 1508 Paseo Fagot Suite #1

City: Ponce State: PR Zip Code: 00716

Contact: Ms. Lilliam Bonet Telephone: (787) 284-0044

XIII. Waste Disposal

Name: Republic Service

Address: PO BOX 7104

City: Ponce, State: PR Zip Code: 00732

Contact: Ms. Wanda Valenzuela Telephone: (787) 841-7775

XIV. Emergency Demolition (complete Item XIV only if this project is an Emergency Demo.)

1. Attach a copy of the Order to this notice.
2. Name of Authority Issuing Order: N/A Title:
3. Authority of Order (Citation of Code):
4. Date of Order (MM/DD/YY): Date Ordered to Begin

XV. Emergency Renovation (Attach separate sheet with the following information if project is Emergency Renovation.)

1. Date and Hour of the Emergency:
2. Description of the Sudden, Unexpected Event:
3. Explanation of how the event caused unsafe conditions or equipment damage or an unreasonable financial burden.

XVI. Description of procedures to be followed in the event that unexpected RACM is found or non-friable ACM becomes crumbled, pulverized, or reduced to powder.

1) Stop Dismantling Activities, 2) Secure Are, 3) Notify Owner, 4) Prepare the area to remove the material.

XVII. I certify that an individual trained in the provisions of NESHAP (40 CFR PART 61, SUBPART M) will be on-site during the Demolition or Renovation, and evidence that the required training has been accomplished by this person will be available during normal business hours.

Signature of Owner/Operator | 04/19/11 Date | Eng. Luzdellys Echevarria Type or Print Name and Title

XVIII. I acknowledge the existence of laws prohibiting the submission of false or misleading statements, and I certify that facts contained in this notification are true, accurate, and complete.

Signature of Owner/Operator | 04/19/11 Date | Eng. Luzdellys Echevarria Type or Print Name and Title

U.S. ENV. PROT. AGENCY
2011 APR 19 PM 12:14
REGION 2
REC'D-OFFICE OF REGIONAL ADMINISTRATOR

U.S. EPA NOTIFICATION OF DEMOLITION AND RENOVATION

Operator Project #	Postmark	Date Received	Notification #

I. Type of Notification (check one): [X] Original [ ] Revised [ ] Canceled

II. Facility Description

Building Name: Puerto Rico Power Authority-Aguirre Thermoelectric Plant

Address: Bo. Montesoria II Km. 151.7

City: Aguirre State: PR Zip Code: 00704 County: USA

Site Location: Aguirre Steam Plant Bo. Montesoria II Km 151.7 Aguirre, PR

Building Size (square feet): 210,000 # of Floors: Age in Years: 36 Yrs

Present Use: Thermolectric Plant Prior Use: N/A

III. Type of Operation (check one): [ ] Demo [ ] Ordered Demo [ ] Renovation [ ] Emergency Renovation [X] Fire Training

IV. Is Asbestos Present? (check one): [X] Yes [ ] No

V. Facility Information

Owner Name: Puerto Rico Power Authority

Address: PO BOX 364267

City: San Juan State: PR Zip Code: 00936

Contact: Ing. Larry Garcia Telephone: (787) 521-3902 / 612-2792 Fax:

Removal Contractor Name: Homeca Recycling Center Co, Inc

Address: PO BOX 231

City: Mercedita State: PR Zip Code: 00715

Contact: Ing. Luzdelilys Echevarria Zayas Telephone: (787) 458-3737 Fax: 800-491-1218

Other Operator (demolition/general): No Demolition Activities

Address: N/A

City: State: Zip Code:

Contact: Telephone: ( ) Fax:

VI. Procedure, including analytical methods, employed to detect the presence of and to estimate the quantity of RACM and Category I and Category II non-friable ACM:

Visual Inspection

VII. Approximate Amount of Asbestos Materials:

	RACM to be Removed	Non-friable Asbestos Material to be Removed		Non-friable Asbestos Material NOT to be Removed	
		Category I	Category II	Category I	Category II
Pipes (linear feet)					
Surface Area (square feet)	30,000				
Facility Components (cubic feet)					

VIII. Scheduled Dates Demolition or Renovation: Start: No Demolition Activities Complete:

IX. Dates for Asbestos Removal (MM/DD/YY) Start: October 1, 2011 Complete: December 31, 2011

Days of the Week:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Hours of Operation:	24	24	24	24	24	24	24

U.S. ENV. PROT. AGENCY
2011 SEP 22 P 2:01
REGION 2
HEARING CLERK OFFICE

U.S. EPA NOTIFICATION OF DEMOLITION AND RENOVATION

X. **Description of planned Demolition or Renovation work to be performed and method(s) to be employed, including demolition or renovation techniques to be used and description of affected facility components:**

TSI (Thermal Insulation)

XI. **Description of work practices and engineering controls to be used to comply with the requirements, including asbestos removal and waste handling emission control procedures:**

TSI by Wet Method, Sprayer

XII. **Waste Transporter #1**

Name: All waste will be transporter by owner

Address:

City: State: Zip Code:

Contact: Telephone: ( )

Waste Transporter #2

Name: All waste will be transporter by owner

Address:

City: State: Zip Code:

Contact: Telephone: ( )

XIII. **Waste Disposal**

Name: All waste will be disposal by owner

Address:

City: State: Zip Code:

Contact: Telephone: ( )

XIV. **Emergency Demolition** (complete Item XIV only if this project is an Emergency Demo.)

1. Attach a copy of the Order to this notice.
2. Name of Authority Issuing Order: Title:
3. Authority of Order (Citation of Code):
4. Date of Order (MM/DD/YY): Date Ordered to Begin

XV. **Emergency Renovation** (Attach separate sheet with the following information if project is Emergency Renovation.)

1. Date and Hour of the Emergency:
2. Description of the Sudden, Unexpected Event:
3. Explanation of how the event caused unsafe conditions or equipment damage or an unreasonable financial burden.

XVI. **Description of procedures to be followed in the event that unexpected RACM is found or non-friable ACM becomes crumbled, pulverized, or reduced to powder.** 1) Stop the removal activities. 2) Secure the area 3) Notify the owner 4) Prepare the area for the removal

XVII. **I certify that an individual trained in the provisions of NESHAP (40 CFR PART 61, SUBPART M) will be on-site during the Demolition or Renovation, and evidence that the required training has been accomplished by this person will be available during normal business hours.** No demolition activities

Signature of Owner/Operator	Date	Type or Print Name and Title

XVIII. **I acknowledge the existence of laws prohibiting the submission of false or misleading statements, and I certify that facts contained in this notification are true, accurate, and complete.**

Signature of Owner/Operator	Date	Type or Print Name and Title
Carlos Sanchez	9/22/11	Carlos Sanchez President

U.S. EPA NOTIFICATION OF DEMOLITION AND RENOVATION

Operator Project #	Postmark	Date Received	Notification #

I. Type of Notification (check one): ☐ Original ☒ Revised ☐ Canceled

II. Facility Description

Building Name: OLD PUERTO RICO OLEFINS

Address: PR 385 KM. 5.4 INT. PR 127 KM. 19.1 TALLABOA PONIENTE WARD

City: PEÑUELAS State: PR Zip Code: 00624 County: USA

Site Location : PR 385 KM. 5.4 PR 127 KM. 19.1 TALLABOA PONIENTE WARD PEÑUELAS

Building Size (square feet): 500,000+ # of Floors: _____ Age in Years: 45+

Present Use: ABANDONED Prior Use: PETROCHEMICAL COMPLEX

III. Type of Operation (check one): ☒ Demo ☐ Ordered Demo ☐ Renovation ☐ Emergency Renovation ☐ Training

IV. Is Asbestos Present? (check one): ☒ Yes ☐ No

V. Facility Information

Owner Name: TALLABOA INDUSTRIAL PARK

Address: PR 385 KM. 5.4 PR 127 KM. 19.1 TALLABOA PONIENTE WARD

City: PEÑUELAS State: PR Zip Code: 00624

Contact: ING. ROBERTO APONTE Telephone: (939) 940-2074 Fax: 787-836-2026

Removal Contractor Name: HOMECA RECYCLING CENTER CO, INC

Address: 1575 AVE MUÑOZ RIVERA PMB 120

City: PONCE State: PR Zip Code: 00717-0211

Contact: EDUARDO RAMOS Telephone: (787) 220-5868 Fax: 787-984-0059

Other Operator (demolition/general): HOMECA RECYCLING CENTER CO, INC

Address: 1575 AVE. MUÑOZ RIVERA PMB 120

City: PONCE State: PR Zip Code: 00717-0211

Contact: EDUARDO RAMOS Telephone: (787) 220-5868 Fax: 787-984-0059

VI. Procedure, including analytical methods, employed to detect the presence of and to estimate the quantity of RACM and Category I and Category II non-friable ACM:

BULK SAMPLES LABORATORY ANALYSIS.

VII. Approximate Amount of Asbestos Materials:

	RACM to be Removed	Non-friable Asbestos Material to be Removed		Non-friable Asbestos Material NOT to be Removed	
		Category I	Category II	Category I	Category II
Pipes (linear feet)	80				
Surface Area (square feet)			800		
Facility Components (cubic feet)					

VIII. Scheduled Dates Demolition or Renovation: Start: 10/15/2012 Complete: 10/15/3013

IX. Dates for Asbestos Removal (MM/DD/YY) Start: 12/01/2012 Complete: 12/31/2012

Days of the Week:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Hours of Operation:	24	24	24	24	24	24	24

2012 NOV 15 AM 10:05

000793

CONFIDENTIAL & PRIVILEGE

U.S. EPA NOTIFICATION OF DEMOLITION AND RENOVATION

X. **Description of planned Demolition or Renovation work to be performed and method(s) to be employed, including demolition or renovation techniques to be used and description of affected facility components:**

Dismantling of Plant Equipment/Structures

XI. **Description of work practices and engineering controls to be used to comply with the requirements, including asbestos removal and waste handling emission control procedures:**

ACM Remval using wet methods and negative pressure enclosure

XII. **Waste Transporter #1**

Name: Enviroreycling
Address: 1508 Paseo Fagot Suite 3
City: Ponce State: PR Zip Code: 00716
Contact: Jose Velez Telephone: (787) 458-3736

Waste Transporter #2

Name: Environmental & Transport Group
Address: 1575 Ave. Munoz Rivera PMB 372
City: Ponce, State: PR Zip Code: 00717
Contact: Jayline Correa Telephone: 787-815-5004

XIII. **Waste Disposal**

Name: Republic Waste Service
Address: PO BOX 7104
City: Ponce State: PR Zip Code: 00732
Contact: Wanda Valenzuela Telephone: 787-841-7775

XIV. **Emergency Demolition (complete Item XIV only if this project is an Emergency Demo.)**

1. Attach a copy of the Order to this notice.
2. Name of Authority Issuing Order: N/A Title:
3. Authority of Order (Citation of Code):
4. Date of Order (MM/DD/YY): Date Ordered to Begin

XV. **Emergency Renovation (Attach separate sheet with the following information if project is Emergency Renovation.)**

1. Date and Hour of the Emergency:
2. Description of the Sudden, Unexpected Event:
3. Explanation of how the event caused unsafe conditions or equipment damage or an unreasonable financial burden.

N/A

XVI. **Description of procedures to be followed in the event that unexpected RACM is found or non-friable ACM becomes crumbled, pulverized, or reduced to powder.**

1) Stop Dismantling Activities, 2) Secure Are, 3) Notify Owner 4) Prepare the area to remove the material

XVII. **I certify that an individual trained in the provisions of NESHAP (40 CFR PART 61, SUBPART M) will be on-site during the Demolition or Renovation, and evidence that the required training has been accomplished by this person will be available during normal business hours.**

Signature of Owner/Operator	Date	Type or Print Name and Title
	10/01/2012	Eduardo Ramos

XVIII. **I acknowledge the existence of laws prohibiting the submission of false or misleading statements, and I certify that facts contained in this notification are true, accurate, and complete.**

Signature of Owner/Operator	Date	Type or Print Name and Title
	10/01/2012	Eduardo Ramos

U.S. EPA NOTIFICATION OF DEMOLITION AND RENOVATION

Operator Project #	Postmark	Date Received	Notification #

I. Type of Notification (check one): ☐ Original ☒ Revised ☐ Canceled

II. Facility Description

Building Name: OLD PUERTO RICO OLEFINS

Address: PR 385 KM. 5.4 INT. PR 127 KM. 19.1 TALLABOA PONIENTE WARD

City: PEÑUELAS State: PR Zip Code: 00624 County: USA

Site Location : PR 385 KM. 5.4 PR 127 KM. 19.1 TALLABOA PONIENTE WARD PEÑUELAS

Building Size (square feet): 500,000+ # of Floors: _____ Age in Years: 45+

Present Use: ABANDONED Prior Use: PETROCHEMICAL COMPLEX

III. Type of Operation (check one): ☒ Demo ☐ Ordered Demo ☐ Renovation ☐ Emergency Renovation ☐ Fire Training

IV. Is Asbestos Present? (check one): ☒ Yes ☐ No

V. Facility Information

Owner Name: TALLABOA INDUSTRIAL PARK

Address: PR 385 KM. 5.4 PR 127 KM. 19.1 TALLABOA PONIENTE WARD

City: PEÑUELAS State: PR Zip Code: 00624

Contact: ING. ROBERTO APONTE Telephone: (939)940-2074 Fax: 787-836-2626

Removal Contractor Name: HOMECA RECYCLING CENTER CO, INC

Address: 1575 AVE MUÑOZ RIVERA PMB 120

City: PONCE State: PR Zip Code: 00717-0211

Contact: EDUARDO RAMOS Telephone: (787)220-5868 Fax: 787-984-0059

Other Operator (demolition/general): HOMECA RECYCLING CENTER CO, INC

Address: 1575 AVE. MUÑOZ RIVERA PMB 120

City: PONCE State: PR Zip Code: 00717-0211

Contact: EDUARDO RAMOS Telephone: (787)220-5868 Fax: 787-984-0059

U.S. EPA RECEIVED 2013 MAY 15 PM 2:00

VI. Procedure, including analytical methods, employed to detect the presence of and to estimate the quantity of RACM and Category I and Category II non-friable ACM:

BULK SAMPLES LABORATORY ANALYSIS.

VII. Approximate Amount of Asbestos Materials:

	RACM to be Removed	Non-friable Asbestos Material to be Removed		Non-friable Asbestos Material NOT to be Removed	
		Category I	Category II	Category I	Category II
Pipes (linear feet)	80				
Surface Area (square feet)			800		
Facility Components (cubic feet)					

VIII. Scheduled Dates Demolition or Renovation: Start: 10/15/2012 Complete: 10/15/2013

IX. Dates for Asbestos Removal (MM/DD/YY) Start: 01/01/2013 Complete: 10/15/2013

Days of the Week:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Hours of Operation:	24	24	24	24	24	24	24

U.S. EPA NOTIFICATION OF DEMOLITION AND RENOVATION

X. **Description of planned Demolition or Renovation work to be performed and method(s) to be employed, including demolition or renovation techniques to be used and description of affected facility components:**

Dismantling of Plant Equipment/Structures

XI. **Description of work practices and engineering controls to be used to comply with the requirements, including asbestos removal and waste handling emission control procedures:**

ACM Remval using wet methods and negative pressure enclosure

XII. **Waste Transporter #1**

Name: Environmental & Transport Group

Address: 1575 Ave. Munoz Rivera PMB 372

City: Ponce, State: PR Zip Code: 00717

Contact: Jayline Correa Telephone: 787 816-5004

Waste Transporter #2

Name:

Address:

City: State: Zip Code:

Contact: Telephone: ( )

XIII. **Waste Disposal**

Name: Republic Waste Service

Address: PO BOX 7104

City: Ponce State: PR Zip Code: 00732

Contact: Wanda Valenzuela Telephone: 787 841-7775

XIV. **Emergency Demolition** (complete Item XIV only if this project is an Emergency Demo.)

1. Attach a copy of the Order to this notice.
2. Name of Authority Issuing Order: N/A Title:
3. Authority of Order (Citation of Code):
4. Date of Order (MM/DD/YY): Date Ordered to Begin

XV. **Emergency Renovation** (Attach separate sheet with the following information if project is Emergency Renovation.)

1. Date and Hour of the Emergency:
2. Description of the Sudden, Unexpected Event:
3. Explanation of how the event caused unsafe conditions or equipment damage or an unreasonable financial burden.

N/A

XVI. **Description of procedures to be followed in the event that unexpected RACM is found or non-friable ACM becomes crumbled, pulverized, or reduced to powder.**

1) Stop Dismantling Activities, 2) Secure Are, 3) Notify Owner 4) Prepare the area to remove the material

XVII. **I certify that an individual trained in the provisions of NESHAP (40 CFR PART 61, SUBPART M) will be on-site during the Demolition or Renovation, and evidence that the required training has been accomplished by this person will be available during normal business hours.**

Signature of Owner/Operator	Date	Type or Print Name and Title
	04/25/2013	Eduardo Ramos

XVIII. **I acknowledge the existence of laws prohibiting the submission of false or misleading statements, and I certify that facts contained in this notification are true, accurate, and complete.**

Signature of Owner/Operator	Date	Type or Print Name and Title
	04/25/2013	Eduardo Ramos

U.S. EPA NOTIFICATION OF DEMOLITION AND RENOVATION

Operator Project #	Postmark	Date Received	Notification #

I. Type of Notification (check one): ☐ Original ☐ Revised ☐ Canceled

II. Facility Description

Building Name: OLD PUERTO RICO OLEFINS

Address: PR 385 KM 5.4 INT 127 KM 19.1 TALLABOA PONIENTE WARD

City: PEÑUELAS State: PR Zip Code: 00624 County: USA

Site Location : PR 385 KM 5.4 INT 127 KM 19.1 TALLABOA PONIENTE WARD PEÑUELAS

Building Size (square feet): 500,000 + # of Floors: Age in Years: 45+

Present Use: ABANDONED Prior Use: PETROCHEMICAL COMPLEX

III. Type of Operation (check one): ☑ Demo ☐ Ordered Demo ☐ Renovation ☐ Emergency Renovation ☐ Fire Training

IV. Is Asbestos Present? (check one): ☑ Yes ☐ No

V. Facility Information

Owner Name: TALLABOA INDUSTRIAL PARK

Address: PR 385 KM 5.4 INT 127 KM 19.1 TALLABOA PONIENTE WARD

City: PEÑUELAS State: PR Zip Code: 00624

Contact: ING. ROBERTO APONTE Telephone: (939) 940-2074 Fax: (787) 836-2026

Removal Contractor Name: HOMECA RECYCLING CENTER CO, INC

Address: 1575 AVE MUÑOZ RIVERA PMB 120

City: PONCE State: PR Zip Code: 00717-0211

Contact: TAMARA ECHEVARRIA Telephone: (787) 632-6173 Fax: (787) 984-0059

Other Operator (demolition/general): HOMECA RECYCLING CENTER CO, INC

Address: 1575 AVE MUÑOZ RIVERA PMB 120

City: PONCE State: PR Zip Code: 00717-0211

Contact: TAMARA ECHEVARRIA Telephone: (787) 632-6173 Fax: (787) 984-0059

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		Category I	Category II	Category I	Category II
Pipe (linear feet)	80				
Surface Area (square feet)		800			
Facility Components (cubic feet)					

RECEIVED 2013 DEC 4 PM 3:13

VIII. Scheduled Dates Demolition or Renovation: Start: 10/15/13 Complete: 10/15/14

IX. Dates for Asbestos Removal (MM/DD/YY) Start: Complete:

Days of the Week:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Hours of Operation:	24	24	24	24	24	24	24

000797

RX 6

CONFIDENTIAL & PRIVILEDGE

U.S. EPA NOTIFICATION OF DEMOLITION AND RENOVATION

X. **Description of planned Demolition or Renovation work to be performed and method(s) to be employed, including demolition or renovation techniques to be used and description of affected facility components:**

DISMANTLING OF PLANT EQUIPMENT/ STRUCTURES

XI. **Description of work practices and engineering controls to be used to comply with the requirements, including asbestos removal and waste handling emission control procedures:**

ACM REMOVAL USING WET METHODS AND NEGATIVE PRESSURE ENCLOSURE

XII. **Waste Transporter #1**

Name: ENVIRORECYCLING

Address: 1508 PASEO FAGOT SUITE 3

City: PONCE State: PR Zip Code: 00716

Contact: JOSE VELEZ Telephone: (787) 458-3736

Waste Transporter #2

Name: RE ENVIRONMENTAL GROUP

Address: PO BOX 479

City: ARROYO State: PR Zip Code: 00717

Contact: JAYLINE CORREA Telephone: (787) 813-5004

XIII. **Waste Disposal**

Name: REPUBLIC WASTE SERVICE

Address: PO BOX 7104

City: PONCE State: PR Zip Code: 00732

Contact: WANDA VALENZUELA Telephone: (787) 841-7775

XIV. **Emergency Demolition** (complete Item XIV only if this project is an Emergency Demo.)

1. Attach a copy of the Order to this notice.
2. Name of Authority Issuing Order: N/A Title:
3. Authority of Order (Citation of Code):
4. Date of Order (MM/DD/YY): Date Ordered to Begin

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Signature of Owner/Operator — 10/01/13 Date — Complenia Directo Type or Print Name and Title

XVIII. **I acknowledge the existence of laws prohibiting the submission of false or misleading statements, and I certify that facts contained in this notification are true, accurate, and complete.**

Signature of Owner/Operator — 10/01/13 Date — Complenia Directo Type or Print Name and Title

000798

CONFIDENTIAL & PRIVILEDGE

EMSL Analytical, Inc.
307 West 38th Street, New York, NY 10018
Phone: (212) 290-0051 Fax: (212) 290-0058 Email: manhattanlab@emsl.com

Attn: **Homeca Recycling Center,Inc.**
1508 Paseo Fagot URB Jardines
Ponce, PR 00716

Fax: (787) 984-0059 Phone: (787) 984-0029
Project: **090921**

Customer ID: HRCI62
Customer PO: HRC933
Received: 09/28/09 9:26 AM
EMSL Order: 030924791
EMSL Proj:
Analysis Date: 9/28/2009

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
BC1	TSI CHIMNEY	Brown/White		45% Ca Carbonate	**5% Amosite**
030924791-0001		Fibrous Homogeneous		15% Non-fibrous (other)	**35% Chrysotile**
BC2	TSI CHIMNEY	Gray/White		40% Ca Carbonate	**5% Amosite**
030924791-0002		Fibrous Homogeneous		15% Non-fibrous (other)	**40% Chrysotile**
BC3	TSI CHIMNEY	Brown/Gray		47% Non-fibrous (other)	**50% Amosite**
030924791-0003		Fibrous Homogeneous			**3% Chrysotile**

Analyst(s)

Alexander Balter (3)

James Hall, Laboratory Manager
or other approved signatory

Due to magnification limitations inherent in PLM, asbestos fibers in dimensions below the resolution capability of PLM may not be detected. The limit of detection as stated in the method is 1%. The above test report relates only to the items tested and may not be reproduced in any form without the express written approval of EMSL Analytical, Inc. EMSL's liability is limited to the cost of analysis. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government.

Samples analyzed by EMSL Analytical, Inc. New York 307 West 36th Street, New York NY NVLAP Lab Code 101048-9, AIHA IHLAP 102581, NYS ELAP 11506, CT PH-0170, MA AA000170

Chain of Custody

Asbestos Lab Services

EMSL Analytical, Inc.
307 West 38th Street
New York,
NY 10018

Phone: (212) 290-0051
Fax: (212) 290-0058
http://www.emsl.com

Please print all information legibly.

030924791

Company:	Homeca Recycling	***Bill To:***	Homeca Recycling
Address1:	1575 Ave. Mu oz Rivera	*Address1:*	1575 Ave. Mu oz Rivera
Address2:	PMB 120	*Address2:*	PMB 120
City, State:	Ponce, PR	*City, State:*	Ponce, PR
Zip/Post Code:	00717-211	*Zip/Post Code:*	00717-211
Country:	USA	*Country:*	USA
Contact Name:	Luzdellys Echevarria	***Attn:***	Luzdellys Echevarria
Phone:	787-458-3737	*Phone:*	787-458-3737
Fax:	787-984-0059	*Fax:*	787-984-0059
Email:	lechevarria@homecarecycling.com	*Email:*	lechevarria@homecarecycling.com
EMSL Rep:		***P.O. Number:***	HRC933
Project Name/Number:	090921		

MATRIX			TURNAROUND			
☐ **Air**	☐ **Soil**	☐ **Micro-Vac**	☐ **3 Hours**	☐ **6 Hours**		☑ **24 Hours (1 day)**
☑ **Bulk**	☐ **Drinking Water**		☐ **48 Hours (2 days)**	☐ **72 Hours (3 days)**	☐ **96 Hours (4 days)**	☐ **120 Hours (5 days)**
☐ **Wipe**	☐ **Wastewater**		☐ **144+ hours (6-10 days)**			

TEM AIR, 3 hours, 6 hours, Please call ahead to schedule. There is a premium charge for 3-hour tat, please call 1-800-220-3675 for price prior to sending samples. You will be asked to sign an authorization form for this service.

PCM - Air	**TEM Air**	**TEM WATER**
☐ NIOSH 7400(A) Issue 2: August 1994	☐ AHERA 40 CFR, Part 763 Subpart E	☐ EPA 100.1
☐ OSHA w/TWA	☐ NIOSH 7402	☐ EPA 100.2
☐ Other:	☐ EPA Level II	☐ NYS 198.2
PLM - Bulk	**TEM BULK**	**TEM Microvac/Wipe**
☑ EPA 600/R-93/116	☐ Drop Mount (Qualitative)	☐ ASTM D 5755-95 (quantative method)
☐ EPA Point Count	☐ Chatfield SOP - 1988-02	☐ Wipe Qualitative
☐ NY Stratified Point Count	☐ TEM NOB (Gravimetric) NYS 198.4	
☐ PLM NOB (Gravimetric) NYS	☐ EMSL Standard Addition:	**XRD**

RECEIVED
09 SEP 28 AM 9:26

000800

ACCEPT ED
FOR ANALYSIS BY
EMSL MANHATTAN

030924791

198.1
☐NIOSH 9002:
☐EMSL Standard Addition:

SEM Air or Bulk
☐Qualitative
☐Quantitative

PLM Soil
☐EPA Protocol Qualitative
☐EPA Protocol Quantitative
☐ EMSL MSD 9000
Method fibers/gram

☐Asbestos
☐Silica NIOSH 7500

OTHER
☐

Chain of Custody

Asbestos Lab Services

EMSL Analytical, Inc.
307 West 38th Street
New York,
NY 10018

Phone: (212) 290-0051
Fax: (212) 290-0058
http://www.emsl.com

Please print all information legibly.
Client Sample # (s)_____ **Total Samples #:**_____

Relinquished: Benjamin Citron **Date:** 9-23-2009 **Time:**_____

Received: Katy Cox **Date:** 9/28 **Time:** 9:26 am

Relinquished:_____ **Date:**_____ **Time:**_____

Received:_____ **Date:**_____ **Time:**_____

SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	VOLUME (if applicable)
BC1	TSI chimney	
BC2	TSI chimney	
BC3	TSI chimney	

EMSL MANHATTAN RECEIVED
09 SEP 28 AM 9:26

000801

ACCEPTED FOR ANALYSIS BY EMSL MANHATTAN

CONFIDENTIAL SUBJECT TO PROTECTIVE ORDER

RECOMENDACION AMBIENTAL

PROYECTO: DESMANTELAMIENTO DE LAS ANTIGUAS FACILIDADES DE PR OLEFINS

DIRECCION DEL PROYECTO: TALLABOA INDUSTRIAL PARK, CARR. 127 KM 19.1
BO. TALLABOA PONIENTE
SECTOR EL PUEBLITO
PEÑUELAS PR 00624

PROPONENTE: HOMECA RECYCLING CENTER CO. INC.

PROYECTISTA: ING. JOSE LUIS RIVERA FIGUEROA



1. Plano Digital, en Polígono de Mensura del Proyecto

00088 RX 6
Page 868 of 1,639
CONFIDENTIAL & PRIVILEDGE

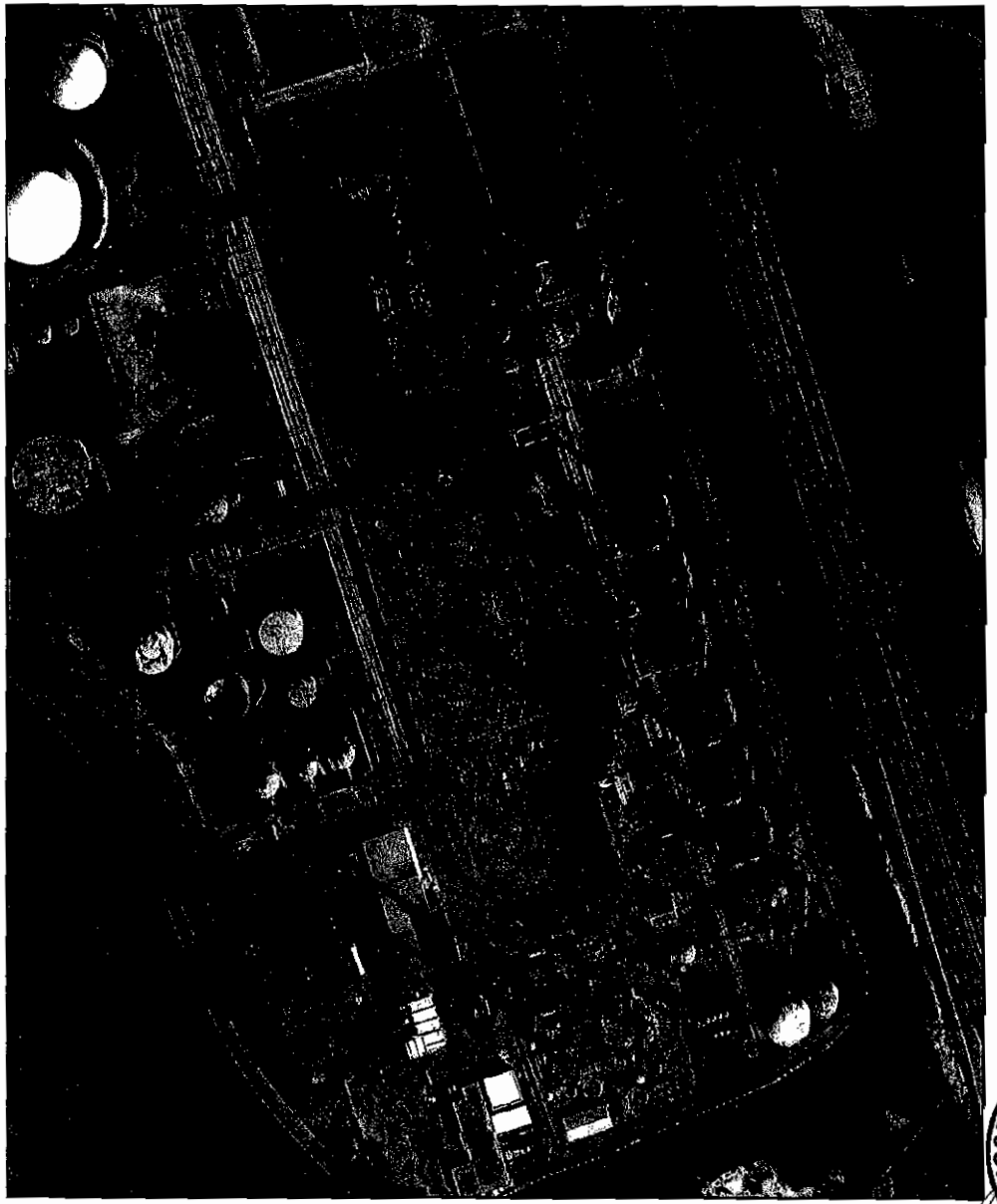
RECOMENDACION AMBIENTAL 0000890

DESMANTELAMIENTO DE LA ANTIGUAS FACILIDADES DE PUERTO RICO OLEFINS

Tallaboa Industrial Park
Carr. 127 km 19.1
Sector El Pueblito
Bo. Tallaboa Poniente,
Peñuelas
Puerto Rico 00624

PROPIEDAD DE
TALLABOA INDUSTRIAL PARK

HOMECA RECYCLING CENTER CO. INC.
PO Box 231, Mercedita
Puerto Rico 00715





MAPA TOPOGRAFICO
X=169,155.1644 Y=218,911.7394



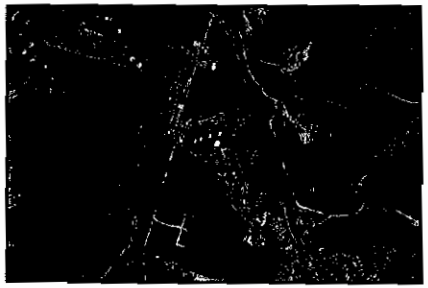


FOTO AERIEA

LEYENDA Y NOTAS:

- ESTRUCTURA @ DESMANTELAR
- LINEAS QUE DEMARCAN EL AREA APROXIMADA A SER IMPACTADA

NOTA: ÁREA @ DESMANTELAR = 95,441.3537 PC = 8,868.7919 MC

PARCEL NAME: OWNER:

SURVEY DATA

LINE	BEARING	DISTANCE	POINT	COORDINATES		DESCRIPTION
				NORTH (Y)	EAST (X)	
1-2	N 73°14'27" W	98.81ft	1	218719.3496	169281.8798	10 IRF ES*ARUPHO
2-3	S 16°34'33" E	83.24ft	2	218651.7668	169313.8235	10 IRF ES*ARUPHO
3-4	N 84°57'0" E	62.29ft	3	218667.9444	169380.4549	5" IRF ES*ARUPHO
4-5	S 36°28" E	38.19ft	4	218638.08.30	169412.3148	5" IRF ES*ARUPHO
5-6	N 19°01" E	12.89ft	5	218648.2280	169403.8806	10 IRF ES*ARUPHO
6-7	N 84°57'0" W	12.97ft	6	218667.2760	169387.3148	10 IRF ES*ARUPHO
7-8	N 16°34" W	410.22ft	7	218681.9460	169387.1337	10 IRF ES*ARUPHO
8-9	S 73°14'27" W	78.82ft	8	218678.9840	169339.8945	10 IRF ES*ARUPHO
9-1	S 16°34'33" E	331.97ft	9	218682.1828	169384.4281	5" IRF ES*ARUPHO

AREA = 41064.1079 SQ.MTS. 10.4478 CUERDAS

Yo, José Luis Rivera Figueroa, numero de licencia 17818 certifico que soy el profesional que diseño estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de las Agencias, Juntas Reglamentadoras o Corporaciones Publicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido sin conocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPE y otras autoridades competentes incluyendo, pero sin limitarse, a la terminación de la participación en los procedimientos de certificación profesional en la OGPE.

DESCRIPCION:
MAPA TOPOGRÁFICO, MAPA DE FEMA, PLANO DE SITUACION Y FOTO AEREA

JOSE A. RIVERA FIGUEROA
INGENIERO
LICENCIADO
LIC # 17818
PUERTO RICO

DIBUJO		S-1	1
FECHA			DE
ESCALA			1

CONFIDENTIAL & PRIVILEDGE
Page 869 of 1,639
RX 6

2. Evidencia de Titularidad

I CERTIFY: That on the date of execution I issued a FIRST CERTIFIED COPY of this deed to TALLABOA INDUSTRIAL PARK LLC. I ATTEST AND GIVE FAITH. ----------

NOTARY PUBLIC

----------NUMBER TWENTY FIVE (25)----------

----------DEED OF PURCHASE AND SALE----------

---In the Municipality of San Juan, Commonwealth of Puerto Rico, this eighteenth (18th) day of November, two thousand eight (2008).----------

----------BEFORE ME----------

---ANA T. RUIZ COMAS, Attorney-at-Law and Notary Public in and for the Commonwealth of Puerto Rico, with residence in Carolina, Puerto Rico, and an office on Four Hundred Three (403) Muñoz Rivera Avenue, Hato Rey, San Juan, Puerto Rico.----------

---------- APPEAR----------

---AS PARTY OF THE FIRST PART: CARIBE OLEFINS, L.L.P., S.P., a limited liability partnership and a special partnership duly organized and validly existing under the laws of the Commonwealth of Puerto Rico, having its principal place of business in Peñuelas, Puerto Rico, and constituted by Deed Number Thirty-Two (32), executed before Notary Ana T. Ruiz-Comas, on November first (1st), nineteen hundred ninety-six (1996) ("Caribe Olefins" or the "Seller"), represented herein by the Vice President of its Managing Partner, C.O. Developments Inc. ("C.O. Developments"), a company duly organized and existing under the laws of the British Virgin Islands, which is duly qualified to do business in Puerto Rico, represented herein by Rajinder Kumar Aggarwal, also known as Raj K. Aggarwal, of legal age, married, business executive and resident of Houston, Texas, who has been authorized to appear in this act by virtue of resolutions adopted by the Board of Directors of C.O. Developments, a certificate of which has been issued by the Sole Director of C.O. Developments Albalyra Morales, before Notary Public Benigno Vergara, and whose

ANA T. RUIZ COMAS ABOGADA-NOTARIO

000892
RX 6
CONFIDENTIAL/PRIVILEGED
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signature has been authenticated by an Apostille signed by Migdalia de Coto———, of the Administative Directory ("Dirección Administrativa") of the Treasury Department of the Republic of Panamá, dated November seventeen (17), two thousand eight (2008), the original of which shall be presented at the Registry of Property of Puerto Rico, Second Section of Ponce (the "Registry"), together with the first certified copy of this Deed; and--------

---AS PARTY OF THE SECOND PART: TALLABOA INDUSTRIAL PARK LLC, a limited liability company duly organized and validly existing under the laws of the Commonwealth of Puerto Rico, (hereinafter referred to as the "Purchaser"), herein represented by its President, Ramón González Cordero, who is of legal age, married, business executive and resident of San Juan, Puerto Rico, who has been duly authorized to appear herein on behalf of the Purchaser pursuant to a Certificate of Resolution issued by Ramón González Cordero as Secretary, on November fourteen (14), two thousand eight (2008), under affidavit number one thousand eight hundred eighty six (1,886), before Notary Public Ricardo O. Meléndez Saurí, the original of which shall be presented at the Registry together with the first certificate copy of this Deed.----------

---I, the Notary, do hereby certify that I personally know the appearing parties, and I further certify through their statements as to their age, civil status, profession and residence. They assure me that they have, in my judgment they do have, the necessary legal capacity to execute this instrument, and therefore they freely and of their own will and accord.----------

---

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----------STATE----------

---FIRST: Title, Liens and Encumbrances. The Seller is the owner in fee simple ("pleno dominio") of certain parcel of land (the "Property") located in the Municipality of Peñuelas, Puerto Rico, described in the Registry as follows:----------

---"RURAL: Parcel of land located in Encarnación and Tallaboa Wards of the Municipality of Peñuelas, Puerto Rico, with a total area of one hundred fifty-two thousand four hundred forty-six point three thousand nine hundred ninety-eight (152,446.3998) square meters, equivalent to thirty-eight point seven thousand eight hundred sixty-five (38.7865) *cuerdas*, equivalent to an area of one million six hundred forty thousand eight hundred fifty-seven point three thousand two hundred ten (1,640,857.3210) square feet, equivalent to thirty-seven point six thousand six hundred eighty-nine (37.6689) acres. Bounded on the North with 'Segregated Lot "A",' as shown on Drawing Number PC-D002 entitled 'Inscription Plan Caribe Olefins Segregation Map Including Extended Tank Area,' prepared by Registered Surveyor Emilio J. Coriano Virella, License Number eleven thousand three hundred twenty-six (11,326) ('Emilio J. Coriano Virella') dated August twelve (12), nineteen hundred ninety-seven (1997) (the 'Segregation Map') (the 'Segregated Lot A'), which was part of this parcel owned by Caribe Olefins, L.L.P., S.P. ('Caribe Olefins'), also bounded on the North by property owned by the Commonwealth Oil Refining Company, Inc. ('CORCO'), Property Number four thousand five hundred three (4,503); bounded on the East by the right of way of State Highway Number Two (2) owned by the Commonwealth of Puerto Rico and under the jurisdiction of the Public Works and Transportation Department of the Commonwealth of Puerto Rico; bounded on the South by property owned by Chicago Bridge and Iron Company and Rentas Estates; bounded on the West by Segregated Lot A and by the right of way of Road Number One Hundred Twenty-Seven (127) owned by the Commonwealth of Puerto Rico and under the jurisdiction of the Public Works and Transportation Department of the Commonwealth of Puerto Rico."----------

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---The Property is recorded in the Registry at page one hundred eight (108), volume ninety four (94) of Peñuelas, property number three thousand three hundred seventy seven (3,377), Second Section of the Property Registry of Ponce (the "Property Registry").----------

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---The Seller acquired title to the Property by purchase pursuant to Deed Number Thirty Three (33), dated November one (1), nineteen hundred ninety six

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(1996), before Notary Ana T. Ruiz Comas, which is recorded in the Registry at page one hundred seventy eight (178), volume one hundred eight nine (189) of Peñuelas, property number three thousand three hundred seventy seven (3377), seventh (7th) entry.----------

---The Property tax number for purposes of the real property taxes with the Municipal Collection Center ("CRIM") is three eight seven hyphen zero zero zero hyphen zero zero eight hyphen one one hyphen nine zero one (387-000-008-11-901).----------

---The Property is subject to the following liens and encumbrances of record:----------

-----A. By its origin, the Property is subject to the following:----------

-------(i) Easements in favor of Property Number two thousand six hundred six (2,606), constituted by Deed Number Seventy-Nine (79), executed in Ponce, Puerto Rico, on November one (1), nineteen hundred sixty-one (1961), before Notary José Guillermo Vivas, recorded at page one hundred fifty-eight (158) overleaf of volume seventy (70) of Peñuelas, Property Number two thousand one hundred eleven (2,111), thirteenth (13th) entry.----

-------(ii) Easements in favor of Property Number two thousand two hundred ninety (2,290), constituted by Deed Number Eleven (11), executed in Ponce, Puerto Rico, on August fourteen (14), nineteen hundred fifty-eight (1958), before Notary José Guillermo Vivas, recorded at page two hundred three (203) overleaf of volume sixty-one (61) of Peñuelas.----------

-------(iii) Right of way easement in favor of Property Number two thousand seven (2,007), Property Number two thousand nine (2,009), Property

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Number two thousand one hundred seventy-three (2,173), and Property Number two thousand one hundred seventy-four (2,174) which belong to Commonwealth Oil Refining Company, Inc. ("CORCO"), constituted by Deed Number Forty-Seven (47), executed in Ponce, Puerto Rico, on September eleven (11), nineteen hundred fifty-four (1954), before Notary José Guillermo Vivas, recorded at page one hundred eighty-four (184) overleaf of volume fifty-five (55) of Peñuelas, Property Number two thousand one hundred eleven (2,111), fourth (4th) entry.----------(iv) Easement in favor of Property Number two thousand two hundred sixty-six (2,266) and Property Number two thousand two hundred sixty-seven (2,267) which belong to Union Carbide Caribe, Inc. ("Union Carbide"), constituted by Deed Number Twenty-Five (25), executed in Ponce, Puerto Rico, on September twenty-six (26), nineteen hundred fifty-six (1956), before Notary José Guillermo Vivas and Deed Number Thirty-Three (33), executed in Ponce on October nine (9), nineteen hundred fifty-seven (1957), before the same Notary, recorded at page fifty-two (52) overleaf of volume sixty-two (62) of Peñuelas, Property Number two thousand one hundred eleven (2,111), eighth (8th) entry.----------(v) Easement in favor of Union Carbide, constituted over Property Number two thousand one hundred nine (2,109), Property Number two thousand one hundred eleven (2,111), and Property Number two thousand one hundred twelve (2,112), by Deed Number Twenty-Nine (29), executed in Ponce, Puerto Rico, on September six (6), nineteen hundred fifty-seven (1957), before Notary José Guillermo Vivas, recorded at page fifty-seven (57), of volume sixty-

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two (62) of Peñuelas, Property Number two thousand one hundred eleven (2,111), tenth (10th) entry.----

-------(vi) Right of way easement in favor of the Puerto Rico Aqueduct and Sewer Authority ("PRASA"), constituted by Deed Number Thirteen (13), executed in Ponce, Puerto Rico, on August thirty-one (31), nineteen hundred fifty-five (1955), before Notary Manuel A. Bustelo, recorded at page one hundred fifty-seven (157) overleaf of volume fifty-nine (59) of Peñuelas, Property Number one thousand one hundred eleven (1,111), twenty-fifth (25th) entry.-

-------(vii) Easement in favor of Property Number eight hundred eighty-six (886) which belongs to Luis Díaz Velázquez constituted by Maximiliano Chardón Rodríguez pursuant to Deed Number Eighty-Five (85), executed in Ponce, Puerto Rico, on August thirty-one (31), nineteen hundred twelve (1912), before Notary Carlos Chardón León, and recorded at page twenty (20) of volume fifteen (15) of Peñuelas, Property Number six hundred and fifty-five (655).----------

-------(viii) Perpetual easement in favor of CORCO over certain portion of Property Number two thousand one hundred twelve (2,112) consisting of one point nineteen (1.19) *cuerdas* pursuant to Deed Number Forty-Seven (47), executed in Ponce, Puerto Rico, on September eleven (11), nineteen hundred fifty-four (1954), before Notary José Guillermo Vivas, recorded at page one hundred ninety-four (194) of volume fifty-five (55) of Peñuelas, Property Number two thousand one hundred twelve (2,112), fourth (4th) entry.----------

-------(ix) Four (4) pipeline easements constituted over Property Number one hundred ninety-four (194) in favor of Property Number two thousand one

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hundred ten (2,210) owned by CORCO, pursuant to Deed Number Four (4), executed in San Juan, Puerto Rico, on September two (2), nineteen hundred fifty-five (1955), before Notary José Luis Novas and clarified by Deed Number One (1), executed on April twelve (12), nineteen fifty-six (1956), before the same Notary, recorded at page sixteen (16) of volume sixty-two (62) of Peñuelas, Property Number one hundred ninety-four (194), seventeenth (17th) entry, and page one hundred thirty-nine (139) of volume sixty (60) of Peñuelas, Property Number two thousand two hundred ten (2,210), second (2nd) entry.----------

-------These easements are encumbered by a mortgage which guarantees certain note in favor of Old Colony Trust Co., as fiduciary, for the sum of Twenty-Four Million Dollars ($24,000,000.00), pursuant to a document subscribed in New York, on March fourteen (14), nineteen hundred fifty-six (1956), before Vicente A. Rodríguez, Charles A. Saacke, and Edward M. Carey, recorded on page fifty-one (51) overleaf of volume sixty (60) of Peñuelas, Property Number two thousand one hundred eleven (2,111), sixth (6th) entry; increased to Twenty-Eight Million Nine Hundred Thousand Dollars ($28,900,000.00), pursuant to Deed Number Nine (9), executed in Ponce, Puerto Rico, on May twenty-nine (29), nineteen hundred fifty-eight (1958), before Notary José Guillermo Vivas, recorded at page fifty-five (55) of volume sixty-two (62) of Peñuelas, Property Number two thousand one hundred eleven (2,111), ninth (9th) entry.----------

-------(x) Mention of an easement in favor of Utilities Corp. constituted by Deed Number Two (2) executed before Notary Ernesto Ramos Antonini on

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February ten (10), nineteen hundred fifty-nine (1959), recorded at page one hundred seventy-seven (177) of volume sixty-eight (68) of Peñuelas, Property Number two thousand five hundred sixty-seven (2,567), first (1st) entry.----------

-------(xi) Easement in favor of the Commonwealth of Puerto Rico, constituted over Property Number two thousand six hundred two (2,602) by eminent domain judgment issued on July twenty-three (23), nineteen hundred sixty-four (1964), by Judge Santos Borges of the Superior Court of Puerto Rico, Expropriation Hall in cases E hyphen sixty-four hyphen one thousand two hundred sixty-six (E-64-1266) and E hyphen sixty-four hyphen one thousand two hundred sixty-seven (E-64-1267), recorded at page one hundred fifty-five (155) of volume seventy (70) of Peñuelas, Property Number two thousand six hundred two (2,602), third (3rd) entry.----------

-------(xii) Easement in favor of Puerto Rico Water Resources Authority constituted pursuant to Deed Number Two (2), executed in Ponce, Puerto Rico, on February eleven (11), nineteen hundred fifty-five (1955), before Notary José Guillermo Vivas.----------

-------(xiii) Restrictive covenants as to reservation of certain rights by the previous owners of the property, their heirs, successors, or lessees (the "Restrictive Covenants"). Such previous owners have retained as part of the sale of the property (a) all sugar quota rights not attaching to the property; (b) all water rights upon the Tallaboa River which were granted by the Crown of Spain for agricultural purposes only, but not such water rights as may run with the land for industrial purposes; (c) the right to maintain

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irrigation canals and water intakes from rivers and pumps, and access to the same; and (d) tractor paths across the land conveyed, as per Deed Number Eleven (11), executed in Ponce, Puerto Rico, on February sixteen (16), nineteen hundred sixty-six (1966), before Notary José Guillermo Vivas, as restated by Deed Number twelve (12), executed on September five (5), nineteen hundred ninety (1990), in San Juan, Puerto Rico, before Notary Edwin Rosas Noya, recorded at page one hundred nineteen (119) overleaf of volume ninety four (94) of Peñuelas, Property Number three thousand three hundred seventy-seven (3,377), sixth (6th) entry ("Deed Number 11").----------

-------(xiv) Restrictive covenants as to the transfer for agricultural purposes (the "Agricultural Restrictive Covenants"). The owner of the property shall not sell or convey to any party any part or all of the property without requiring from the purchaser a covenant that it will not use land for agricultural purposes as per Deed Number Eleven (11).----------

-----B. By itself, the Property is subject to the following:----------

-------(i) Easement in favor of Property Number seven thousand eight hundred fifty five (7855), constituted pursuant to Deed Number twenty eight (28), executed on December twelve (12), nineteen hundred ninety-seven (1997), before Notary Hilda Isabel Rodríguez Mercado, recorded at page ninety (90) of volume two hundred twelve (212) of Peñuelas, Property number three thousand three hundred seventy seven (3,377), ninth (9th) entry.----------

-------(ii) Temporary Personal Easement constituted as per Deeds Number Thirty One (31) and Deed Thirty

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Seven (37), executed on December twelve (12), nineteen hundred ninety-seven (1997), before Notary Hilda Isabel Rodríguez Mercado, recorded at page forty six (46) of volume two hundred fifteen (215) of Peñuelas, property number three thousand three hundred seventy seven (3,377), tenth (10th) entry.----------(iii) Notice of Litigation Claim in the First Instance Court of Puerto Rico, Superior Court, Ponce Part, Civil Case Number JAC two thousand six hyphen zero six three zero (JAC 2006-0630), for non-compliance of contract, specific performance and damages, in the case of Terminal Acquisition Company, Inc., doing business as ProCaribe v. Caribe Olefins LLP SP, et al., recorded at page ninety one (91) of volume two hundred fifty eight (258) of Peñuelas, Property number three thousand three hundred seventy seven (3,377), Entry ("Anotación") "A". Seller, together with Purchaser's affiliate Terminal Acquisition Company, Inc., have agreed to request to the Court the issuance of an order cancelling the same as per the terms of the Purchase Agreement (defined herein below).----------

ANA T. RUIZ COMAS ABOGADA - NOTARIO

---SECOND: Sale and Purchase of the Property. The Seller has agreed with the Purchaser on the sale to the Purchaser of the Property in accordance with the following terms and conditions:----------

-----A. The Seller hereby sells to the Purchaser, and the Purchaser hereby purchases from the Seller, the Property, together with all its rights, easements, servitudes, and appurtenances without any limitation whatsoever.----------

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-----The purchase price of the Property is EIGHT HUNDRED THOUSAND DOLLARS ($800,000.00), which is paid by the Purchaser to the Seller in this act and

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receipt of which is hereby acknowledged by the Seller.----------

-----B. This Deed is executed pursuant to that certain Asset Purchase Agreement, dated as of August twenty (20), two thousand eight (2008) (the "Purchase Agreement") among the Seller, Empire Gas Company, Inc. and Terminal Acquisition Company, Inc., the last two (2) legal entities are affiliates of Purchaser, (all capitalized terms used herein which are not otherwise defined shall have the meanings set forth therein). As provided in the Purchase Agreement, the Property is sold "as-is, where-is" basis, except for certain limited representations, warranties, agreements and indemnities included in the Purchase Agreement, which are hereby expressly incorporated herein and made a part of this Deed, and shall survive the execution hereof. References herein to the Purchase Agreement shall not affect the rights of third parties.----------

---THIRD: Property Taxes. Property taxes due on the Property shall be apportioned as provided in the Purchase Agreement.----------

---FOURTH: Expenses of Deed. The cost of the Internal Revenue, Legal Assistance and Notarial stamps required for the original of this Deed, and the notarial tariff applicable hereto, shall be paid by the Seller. The cost of the Internal Revenue, Legal Assistance and Notarial stamps for the first certified copy of this Deed, and the fees for the recordation of said first certified copy in the Registry, shall be paid by the Purchaser.----------

---FIFTH: Right to Possession. This Deed shall entitle the Purchaser to enter into possession of the Property without any additional formality or

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request.----------

---SIXTH: Successors and Assigns. All of the terms, conditions and provisions of this Deed shall apply to and be binding upon the successors and assigns of the appearing parties and all persons claiming under or through them.----------

---SEVENTH: Additional Documentation. The parties hereto agree to execute and deliver any additional instruments and documents which may be necessary to record the transaction effected hereby.----------

---EIGHTH: Request to the Registrar. The Honorable Registrar of the Property is respectfully requested to record the transfer of title to the Property in fee simple ("pleno dominio") in the name of the Purchaser.----------

---The appearing parties to this Deed accept the same as drafted because it has been drawn up in accordance with their stipulations, terms and conditions.----------

---I, the Notary, made to the appearing parties the necessary legal warnings concerning the execution of this Deed and they were fully advised by me thereon. I advised the appearing parties as to their right to read this Deed by themselves, which they did, and to have witnesses present at the execution thereof, which they waived.----------

---Specifically, I advised the appearing parties with respect to: the meaning and legal effects of the acts consummated pursuant to this Deed, having asked each of the persons appearing herein whether they had any further questions and allowing each of them ample time and opportunity to understand and comprehend the meaning and legal nature and effect of their acts; that any liens or encumbrances or any other matter affecting the title to the

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Property that may be filed for recordation with the Registry prior to the filing of this Deed may be legally binding and could take precedence over this Deed; the responsibility of the Seller regarding the obligations imposed by the Civil Code of Puerto Rico to a seller of real property, as such obligations may have been altered by this Deed or the Purchase Agreement; if the Property is located in a flood prone area, any present or future title holder or occupant thereof may be compelled by law to observe and comply with the requirements and provisions of the Flood Zone Regulations, and the parties are hereby warned that failure to comply therewith may result in an unlawful act pursuant to the provisions of Section thirty (30) of Act Number Eleven (11) of March eight (8), nineteen eighty-eight (1988) regarding flood zones; the advisability of the parties having a person with appropriate expertise conduct an investigation to determine the environmental condition of the Property; the obligation of the Seller to prepare, sign and deliver to the Notary, not later than eight (8) days following the execution of this Deed, the Information Return to be filed with the Puerto Rico Department of the Treasury; that real property taxes corresponding to the preceding five (5) tax years and the current tax year constitute a senior, preferred statutory lien on the Property; and of the advisability of verifying the payment status of such real property taxes in the records of the Municipal Revenues Collection Center ("CRIM").----------

---In connection to the real estate property taxes of the Property, I the Notary Public certify that I have presented the Parties a Statement of Account

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issued by CRIM for the Property on November Thirteen (13), two thousand eight (2008), in which it appears that as of the date of this Deed the Property has no past due or an outstanding balance regarding the real estate property taxes. The Parties hereby accepts that they have received copy of the Statement of Account and the Value Certificate of the Property.----------

---I also advised the appearing parties that title abstract in relation to the Property was prepared by Rato Rey Title Insurance Company, Inc., an independent third party, and not by the subscribing Notary Public. Said title abstract is dated November fourteen (14), two thousand eight (2008).-

---After having read the contents of this Deed, as stated in all preceding paragraphs, the appearing parties fully ratified and confirmed the statements contained herein as the true and exact embodiment of their stipulations, terms and conditions, whereupon the appearing parties signed this Deed before me, the Notary, and signed their initials on each and every folio of this Deed.----------





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---I, the Notary, do hereby certify as to everything stated or contained in this instrument.

---I, the Notary, do hereby ATTEST AND GIVE FAITH.-

---Signed: **CARIBE OLEFINS L.L.P., S.P.**, represented herein by the Vice President of its Managing Partner, **C.O. DEVELOPMENTS INC.**, represented herein by Rajinder Kumar Aggarwal; and **TALLABOA INDUSTRIAL PARK LLC**, represented herein by its President Ramón González Cordero.----------

---Signed, sealed, marked and flourished: ANA T. RUIZ COMAS, Notary Public. ----------

---The initials of the appearing parties have been affixed on each folio of the original. ----------

---I, the Notary, certify that the foregoing is a true and exact copy of Deed Number Twenty Five (25), the original of which forms part of my protocol of public instruments for the year two thousand eight (2008), which contains Fifteen (15) folios. ----------

---IN WITNESS WHEREOF, and at the request of **TALLABOA INDUSTRIAL PARK L.L.C.**, I issue the FIRST certified copy of this deed, in San Juan, Puerto Rico, this eighteenth (18th) day of November, two thousand eight (2008). ----------

ANA T. RUIZ COMAS
NOTARIO

Notary Public

Registro de la Propiedad
SECCION SEGUNDA
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Puerto Rico

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Acta

Folio 91
Tomo 258 Bruto
Inscripción 11
Feria 3377

En la Procuraduría opera a favor de los herederos a favor de los feria 2276 y 2166 acreedores a favor de los feria 2290 acreedores a favor de los feria 2107, 2109, 2173 y 2174 Propiedad de CORCO los acreedores a favor de Unión Capital donde los acreedores a favor de la BBH, acreedores a favor de la feria 884 de Luis Díaz Nieves acreedores a favor de CORCO sobre una porción de terreno de 1.19 cda. de la feria 2144 cuotas derechos de acreedores a favor de la feria 2210 de CORCO gravado con hipoteca a favor de Old Colony Trust por $24,000.00 ordenada a $24,90, 2000 Fracción de acreedor a favor de Natividad corporación acreedores a favor del Club Hípico de la BBH y demás acreedores al pago constituido por Mediadora Capital Partners sobre la feria que consta inscrito al folio 30 del tomo 15 de Bruto a favor y contra a favor de ulocicorpo en la inscripción primera al folio 101 del tomo 94 de Bruto por el acreedor de post sobre esta feria como puede siguiente a favor de la feria número 7555 propiedad Caribe Offshore Catalina de Bayonda a favor de Banco Popular de C.D. Development en Ponce a 23/11/08

Ejecutada

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CERTIFICATE OF RESOLUTIONS
OF
C. O. DEVELOPMENTS INC.
("The Company")
An IBC company of the British Virgin Islands (BVI)

The undersigned, in my capacity as Secretary of **C. O. DEVELOPMENTS INC.**, a limited liability company incorporated under the International Business Companies Act of the British Virgin Islands on the 24th day of October, 1996, whose registered office is situated at P.O. Box 3149, Pasea Estate, Road Town, Tortola of the British Virgin Islands (the "Company"), has approved the following resolutions, which has not being modified, revised or revoked:

WHEREAS, the Board of Directors of the Company, as Managing Partner of **CARIBE OLEFINS, L.L.P., S.P.,** ("Caribe Olefins"), has duly considered the proposed sale by Caribe Olefins to **TALLABOA INDUSTRIAL PARK LLC,** a Puerto Rico limited liability company, of property number three thousand three hundred seventy seven (3,377), which is registered at page one hundred eight (108) of volume ninety four (94) of Peñuelas, Puerto Rico ("Property A"), for the principal sum of **EIGHT HUNDRED THOUSAND DOLLARS ($800,000.00);**

WHEREAS, the Board of Directors of the Company, as Managing Partner of Caribe Olefins, has duly considered the proposed sale by Caribe Olefins to **PROCARIBE ENERGY INDUSTRIAL PARK LLC,** a Puerto Rico limited liability company, of property number seven thousand eight hundred fifty five (7,855) of Peñuelas, Puerto Rico ("Property B"), for the principal sum of **THREE HUNDRED THOUSAND DOLLARS ($300,000.00);**

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LITHO. IN U.S.A.
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WHEREAS, the Board of Directors of the Company, as Managing Partner of Caribe Olefins, has duly considered the proposed sale by Caribe Olefins to **PROCARIBE ENERGY INDUSTRIAL PARK LLC,** a Puerto Rico limited liability company, of property number three thousand seven hundred forty three (3,743)of Peñuelas, Puerto Rico ("Property C"), for the principal sum of **FIFTY THOUSAND DOLLARS ($50,000.00);**

WHEREAS, the Board of Directors of the Company, as Managing Partner of Caribe Olefins, has duly considered the proposed sale of certain machinery and equipment which are part of an olefins plant currently placed in the Properties (as hereinafter defined);

WHEREAS, the Board of Directors has determined the sale of Property A, Property B and Property C (hereinafter collectively referred to as the "Properties")to be in the best interests of the Company, as Managing Partner of Caribe Olefins;

NOW THEREFORE, BE IT RESOLVED, that it is in the best interest of the Company, as partner of Caribe Olefins to sell the Properties and the machinery and the equipment located in the Properties;

RESOLVED, that Mr. Rajinder Kumar Aggarwal, also known as Raj K. Aggarwal, of legal age, married and resident of Houston, Texas, in his capacity as Vice President of the Company, shall be and hereby is authorized in the name and on behalf of the Company any Certificate of Resolutions of the Partners of Caribe Olefins authorizing the sale of the Properties and of the machinery and equipment and further to execute the corresponding private and public documents

for the sale of the Properties and the machinery and equipment, including, but not limited to, Deeds of Purchase and Sale, Bill of Sale, a General Assignment and Conveyance, an Assignment of Lease Agreement and/or Aclaratory Deeds.

IN WITNESS WHEREOF, the Company has caused its Common Seal to hereunto affixed at Panama, Republic of Panama, this 17th day of November, A.D. 2008.

ADVISORS AND SERVICES (B.V.I.) CORP.
Represented by: Albalyra Morales Ch.
Sole Director

Sworn to and subscribed to before me by **ALBALYRA MORALES**, of legal age, Panamanian, passport number **1536202** and resident of Panama, Republic of Panama, in his/her capacity as Secretary of **C. O. DEVELOPMENTS INC.** To me personally known in Panama, Republic of Panama, on this 17th ay of November, 2008.

NOTARY PUBLIC

APOSTILLE
Convention de la haye du 5 octobre 1961
1 Pais PANAMA
El presente documento público
2 ha sido firmado por Benigno Vergara
3 quien actua en calidad Notario
4 y esta revestido del sello/timbre de

216243 CERTIFICADO

5 En Panamá e el día 17 NOV 2008
7 por DIRECCION ADMINISTRATIVA
8 Bajo el número 13420
9 Sello/timbre 10 Firma

REPUBLICA DE PANAMA
DEPARTAMENTO DE TESORERIA
MINISTERIO DE GOBIERNO Y JUSTICIA

Esta Autenticación no implica responsabilidad en cuanto al contenido del documento

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TALLABOA INDUSTRIAL PARK LLC

CERTIFICATE OF RESOLUTION

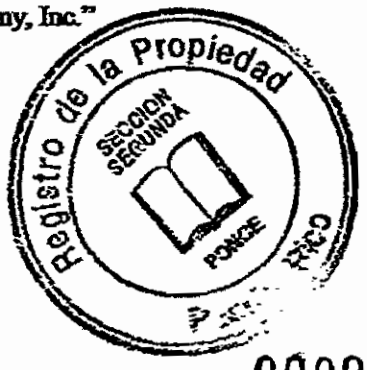
The undersigned, Secretary of Tallaboa Industrial Park LLC (the "Company"), a limited liability company organized and existing under the laws of the Commonwealth of Puerto Rico does hereby certify that the following resolutions were adopted by the Sole Director of the Company pursuant to written consent in lieu of a meeting:

"**RESOLVED,** that the Sole Director of the Company deems it advisable and in the best interests of the Company to authorize Ramón González Cordero, in his capacity as President of the Company to execute and deliver, on behalf of the Company a Deed of Purchase and Sale whereby the Company will purchase from Caribe Olefins, L.L.P., S.P., a parcel of land that is recorded in the Registry of the Property of Puerto Rico, Second Section of Ponce at page 108 of volume 94 of Peñuelas, property number 3,377 for the aggregate purchase price of $800,000.00; and it is further

RESOLVED, that in order to effectuate the foregoing, Ramón González Cordero, in his capacity as President of the Company, may execute such other instruments and perform such other acts as he may determine to be necessary or desirable and in the best interests of the Company, it being the intent hereof that insofar as any Registrar of Property of the Commonwealth of Puerto Rico is concerned, such execution or performance shall be conclusive evidence that he received appropriate and sufficient authorization; and it is further

RESOLVED, that Ramón González Cordero, in his capacity as President of the Company, is hereby authorized, empowered and directed to execute, deliver, and file any and all documents and take such actions as he may deem reasonably necessary to consummate and perform the transactions, rights and obligations contemplated by that certain Asset Purchase Agreement dated August 20, 2008, among Caribe Olefins, L.L.P., S.P., Empire Gas Company, Inc. and Terminal Acquisition Company, Inc."

[SIGNATURE PAGE FOLLOWS]



IN WITNESS WHEREOF, I have hereunto set my hand in San Juan, Puerto Rico, this 14th day of November, 2008.

Secretary

Affidavit No. 1886

Sworn and subscribed before me in San Juan, Puerto Rico on this 14th day of November, 2008 by Ramón González Cordero, of legal age, married, executive and resident of San Juan, Puerto Rico, as Secretary of Tallaboa Industrial Park LLC, who is personally known to me.

RICARDO O. MELENDEZ SAURI
NOTARY PUBLIC
PUERTO RICO
ABOGADO NOTARIO

184264.3

Registro de la Propiedad
SECCION SEGUNDA
PONCE
Puerto Rico

000912

3. Autorización del dueño del solar al dueño del proyecto

PROCARIBE
A DIVISION OF
Terminal Acquisition Company, Inc.

8 de septiembre de 2011

Estimado Señores (as):

Proyecto: **Desmantelamiento Antiguas Facilidades PR Olefins**
Carretera 127 KM 19.1 Bo. Tallaboa Poniente
Sector El Pueblito
Peñuelas, PR 00624

Tallaboa Industrial Park, autorizó a Homeca Recycling Center Co., Inc. a ser nuestro representante para poder realizar los trámites necesarios para la obtención de los permisos para desmantelar las estructuras del proyecto de referencia.

Esperamos los permisos a solicitar puedan ser otorgados. De necesitar información adicional favor comunicarse al 787-836-3007.

Cordialmente,

Roberto Aponte, PE
Gerente General

000914

4. Autorización del dueño del proyecto al proponte para tramitar la solicitud

HOMECA
RECYCLING
Environmental, Coating and Demolition Services

28 de noviembre de 2011

Oficina Gerencia de Permisos
Sistema Integrado de Permisos

Re: Recomendación Ambiental
Desmantelarían de las antigua facilidades de
Puerto Rico Olefins
Tallaboa Industrial Park, Carretera 127 Km. 19.1
Bo. Tallaboa Poniente, Sector El Pueblito
Ponce, PR 00624

Estimados Señores (as):

Por este medio autorizamos al Ing. José Luis Rivera Figueroa, licencia profesional 17818, a realizar cualquier gestión ante su oficina para el caso de referencia. Así mismo, lo autorizamos a solicitar, firmar y tramitar cualquier documento de índole procesal para el seguimiento hasta la obtención del resultado final de nuestro caso.

Esperamos esta información les sea de utilidad, de no ser así, no dude en comunicarse con una servidora, a su conveniencia.

Cordialmente,

Tamara Echevarría
Asistente Gerente de Operaciones
tamara@homecainc.com
Oficina: 787-689-6150
Celular: 787-632-6173
Fax. 1-800-491-1218

5. Certificación del proyectista

Homeca Recycling Center Co. Inc.
PO BOX 231 Mercedita, PR 00715 • Fax. (800)491-1218 • Office: 787-689-6150
Mobile: 787-632-6173

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CONFIDENTIAL - RECEIVED
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GOBIERNO DE PUERTO RICO
OFICINA DE GERENCIA DE PERMISOS

Certificación de Proyectista, Especialista o Contratista

En armonía con las disposiciones de la Ley Número 161 del 1 de diciembre de 2009, yo,

José Luis Rivera Figueroa (NOMBRE COMPLETO Y APELLIDOS), **CERTIFICO BAJO JURAMENTO**: mi relación con la obra

Desmantelamiento de las antiguas facilidades de PR Olefins (NOMBRE DEL PROYECTO), con Número de Proyecto 2011-PRE-00040 (NÚMERO DE PROYECTO), para la cual se solicita un permiso Recomendación Ambiental (TIPO DE PERMISO), es la descrita a continuación:

☐ Soy el(la) contratista que ejecutó o ejecutará dicha obra.

☐ Soy el(la) representante autorizado del contratista que ejecutó o ejecutará dicha obra y que me ha autorizado a firmar la presente certificación.

El proyecto fue ejecutado de acuerdo a los planos y las especificaciones sobre los cuales se otorgó el el permiso con Número de Caso _____ (NÚMERO DE PERMISO) ante la Oficina de Gerencia de Permisos.

☐ Soy el(la) especialista quien preparó o diseñó la fase _____ (ESTRUCTURAL, MECÁNICA, ETC.) para la _____ (CONSTRUCCIÓN, AMPLIACIÓN, ETC.) del _____ (EDIFICIO, PROYECTO, ETC.).

☒ Soy el(la) proyectista de la obra y estoy autorizado(a) para ejercer la profesión de ingeniero (ING., ARQ., ETC.) en Puerto Rico, con Licencia Número 17818 (NÚMERO DE LICENCIA).

Afirmo y reconozco las consecuencias de incluir y someter información falsa o incompleta en dichos documentos. Declaro, bajo las penalidades de perjurio, que esta Certificación ha sido examinada por mí, y según mi mejor información y creencia es cierta, correcta y completa.

En _____ (PUEBLO), Puerto Rico, hoy 28 (DÍA) de noviembre (MES) de 2011 (AÑO).

JOSE L. RIVERA FIGUEROA
INGENIERO LICENCIADO
LIC # 17818
PUERTO RICO

_____ (FIRMA)

17818 (NÚMERO DE LICENCIA)

(787)383-8777
(787)222-2573 (NÚMERO DE TELÉFONO)

PO BOX 231 MERCEDITAS PR 00715 (DIRECCIÓN POSTAL – LÍNEA 1)

_____ (DIRECCIÓN POSTAL – LÍNEA 2)

6. Certificación del especialista

GOBIERNO DE PUERTO RICO
OFICINA DE GERENCIA DE PERMISOS

Certificación de Proyectista, Especialista o Contratista

En armonía con las disposiciones de la Ley Número 161 del 1 de diciembre de 2009, yo,

Adolfo Valdés Agrait (NOMBRE COMPLETO Y APELLIDOS), **CERTIFICO BAJO JURAMENTO**: mi relación con la obra

Desmantelamiento de las antiguas facilidades de PR Olefins (NOMBRE DEL PROYECTO), con Número de Proyecto 2011-PRE-00040 (NÚMERO DE PROYECTO), para la cual se solicita un permiso Recomendación Ambiental (TIPO DE PERMISO), es la descrita a continuación:

☐ Soy el(la) contratista que ejecutó o ejecutará dicha obra.

☐ Soy el(la) representante autorizado del contratista que ejecutó o ejecutará dicha obra y que me ha autorizado a firmar la presente certificación.

El proyecto fue ejecutado de acuerdo a los planos y las especificaciones sobre los cuales se otorgó el el permiso con Número de Caso _____ (NÚMERO DE PERMISO) ante la Oficina de Gerencia de Permisos.

☒ Soy el especialista quien preparó o diseñó la fase Plan de Trabajo para la Remoción de ACM (ESTRUCTURAL, MECÁNICA, ETC.) para la Remoción de ACM (CONSTRUCCIÓN, AMPLIACIÓN, ETC.) de Estructuras de las facilidades de PR Oefins; Tallaboa, PR (EDIFICIO, PROYECTO, ETC.)

☐ Soy el(la) proyectista de la obra y estoy autorizado(a) para ejercer la profesión de _____ (ING., ARQ., ETC.) en Puerto Rico, con Licencia Número _____ (NÚMERO DE LICENCIA).

Afirmo y reconozco las consecuencias de incluir y someter información falsa o incompleta en dichos documentos. Declaro, bajo las penalidades de perjurio, que esta Certificación ha sido examinada por mí, y según mi mejor información y creencia es cierta, correcta y completa.

En Ponce (PUEBLO) de Puerto Rico, hoy 22 (DÍA) de noviembre (MES) de 2011 (AÑO).

FIRMA

219 MERCEDITA, PUERTO RICO 00715
DIRECCIÓN POSTAL – LÍNEA 1

Diseñador de Asbesto # ASB-1110-0560-PD
NÚMERO DE LICENCIA

(787) 504-0279
NÚMERO DE TELÉFONO

DIRECCIÓN POSTAL – LÍNEA 2

7. Recomendación municipal en caso que el acceso a la obra sea atreves de una vía municipal

La acción propuesta no requiere el acceso que el acceso a la obra sea a través de una vía municipal.

8. Carta de trámite de la agencia proponente

Homeca Recycling Center Co. Inc.
PO BOX 231 Mercedita, PR 00715 • Fax. (800)491-1218 • Office: 787-689-6150
Mobile: 787-632-6173

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9. Hoja introductoria a preámbulo

Homeca Recycling Center Co. Inc.
PO BOX 231 Mercedita, PR 00715 • Fax. (800)491-1218 • Office: 787-689-6150
Mobile: 787-632-6173

Nombre del Proyecto: **Desmantelamiento de las antiguas facilidades de PR Olefins Peñuelas PR**

A. Nombre de la agencia proponente o cualquier otra agencia participante:

Homeca Recycling Center Co. Inc.,

B. Nombre de la entidad privada que promueve la acción, de no ser la propia agencia proponente:

1. Nombre del proponente: **Homeca Recycling Center Co. Inc.,**
2. Dirección postal: **PMB 323-200 Ave. Rafael Cordero Suite 140 Caguas, Puerto Rico 00725**
3. Teléfono: **(787) 689-6150** Fax: **(800)491-1218**

C. Titulo de la acción propuesta:

1. Nombre del proyecto: **Desmantelamiento de las antiguas facilidades de Olefins Peñuelas Puerto Rico**
2. Dirección del proyecto: **Tallaboa Industrial Park Carr. 127 km 19.1 Bo. Tallaboa Poniente, Sector El Pueblito Peñuelas PR 00624**
3. Cabida de los terrenos: **152,446.3998 metros cuadrados igual a 37.6689 cuerdas**
4. Cabida del proyecto: **41,064.1079 MC APROX.**
5. Estimado de Costo total del proyecto: **$300,000.000 APROX.**

10. Descripción detallada de la acción proyectada, su ubicación, su propósito y su necesidad

Homeca Recycling Center Co, Inc (Homeca, de aquí en adelante), empresa netamente Puertorriqueña, dedicada primordialmente al reciclaje de metales ferrosos y no ferrosos, está interesada en llevar a cabo la mitigación ambiental de los predios que componen la Antigua Planta de la Puerto Rico Olefins (PR Olefins de aquí en adelante). Una vez se complete la mitigación las fases de la mitigación ambiental (asbestos y plomo) de estas facilidades que se ubican en Tallaboa Industrial Park, Carretera 127 km 19.1, Bo. Tallaboa Poniente, Sector El Pueblito del Municipio de Peñuelas, PR, se tiene la intensión de desmantelar la estructura para disponer de los metales de la facilidad por medio del reciclaje, a tenor con la Ley Numero 70 del 18 de septiembre de 1992, según enmendada, Ley para la Reducción y el Reciclaje de Desperdicios Sólidos en Puerto Rico de la Administración de Desperdicios Sólidos. Tallaboa Industrial Park (TIP de aquí en adelante), empresa que adquirió los terrenos de la antigua PR Olefins, se comunicó con nuestra empresa debido a que tienen la preocupación de que estas estructuras están en total abandono desde 1987 y representan un riesgo de salud y seguridad tanto al ambiente como a los transeúntes y residentes cercanos. Homeca llevo a cabo una inspección de la facilidad donde determinó que la misma tiene alto contenido de asbestos proveniente del material aislante, el cual está débil y se ha desprendido de la estructura. En adición, observó que tiene partes de metal expuestas que han sufrido oxidación, lo cual representa un riesgo a la seguridad de los que transitan en la PR # 2. Otro asunto relacionado, es que esta facilidad ha sido blanco de vandalismo por parte de distintas personas lo que pone en riesgo la salud de estos y del personal que labora cerca a la facilidad. Así mismo, estas facilidades se han convertido en un estorbo público, afectando la visibilidad de nuestra costa sur desde la PR # 2. Se ha dispuesto que la política pública del gobierno es limpiar, desmantelar las facilidades abandonadas y re-usar los terrenos existentes que hayan sido contaminados o que hayan sufrido daños debido a las operaciones de las industrias petroquímicas existentes. En adición, esto es una oportunidad de empleo y desarrollo para la región sur. Ante la realidad de que esta estructura está abandonada es necesario se viabilice el desmantelamiento de

dichas facilidades, la limpieza de terrenos y si eventual uso para fines distintos, como un paso a la recuperación de esta zona abandonada desde hace más de 20 años.

11. Apéndices de análisis o información altamente especializada con conclusiones científicas, según sea necesario

La acción propuesta no lo requiere.

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12. Planos esquemáticos y conceptuales de la acción propuesta, que incluyan detalles requeridos como la ubicación de pozos de haber alguno

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RECOMENDACION AMBIENTAL

DESMANTELAMIENTO DE LA ANTIGUAS FACILIDADES DE PUERTO RICO OLEFINS

Tallaboa Industrial Park
Carr. 127 km 19.1
Sector El Pueblito
Bo. Tallaboa Poniente,
Peñuelas
Puerto Rico 00624

PROPIEDAD DE
TALLABOA INDUSTRIAL PARK

HOMECA RECYCLING CENTER
CO. INC.
PO Box 231, Mercedita
Puerto Rico 00715

LEYENDA Y NOTAS;

ESTRUCTURA @ DESMANTELAR

LINEAS QUE DEMARCAN EL AREA APROXIMADA A SER IMPACTADA

NOTA: ÁREA @ DESMANTELAR = 95,441.3537 PC = 8,866.7919 MC

PARCEL NAME: OWNER:

SURVEY DATA

LINE	BEARING	DISTANCE	POINT	COORDINATES NORTH (Y)	COORDINATES EAST (X)	DESCRIPTION
1-2	S 72°41'17" W	59.91 FT		217,770.8980	169,198.9179	TO BE ESTABLISHED
2-3	S 16°58'43" E	83.7163	3	217,693.3868	169,174.8755	TO BE ESTABLISHED
3-4	N 89°51'20" E	83.3000	4	217,693.3944	169,243.6347	TO BE ESTABLISHED
4-5	S 36°38' E	38.1400	5	217,661.8680	169,265.3148	TO BE ESTABLISHED
5-6	S 39°59' E	17.4600	6	217,648.3285	169,276.5808	TO BE ESTABLISHED
6-7	S 67°41'43" W	13.1500	7	217,642.9267	169,267.3146	TO BE ESTABLISHED
7-8	S 16°58'43" W	459.9924	8	217,202.4.5400	169,187.1277	TO BE ESTABLISHED
8-9	S 72°41'43" W	79.9000	9	217,163.4.9740	169,194.1943	TO BE ESTABLISHED
9-1	S 16°58'43" E	197.1273	1	217,066.1632	169,194.4281	TO BE ESTABLISHED

AREA = 410541.1079 SQ. MTS. 10.4478 CUERDAS

Yo, José Luis Rivera Figueroa, numero de licencia 17816 certifico que soy el profesional que diseño estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de las Agencias, Juntas Reglamentadoras o Corporaciones Publicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido sin conocimiento o por negligencia ya sea por mi, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPE y otras autoridades competentes incluyendo, pero sin limitarse, a la terminación de la participación en los procedimientos de certificación profesional en la OGPE.





MAPA TOPOGRAFICO
X=169,155.1644 Y=218,911.7394



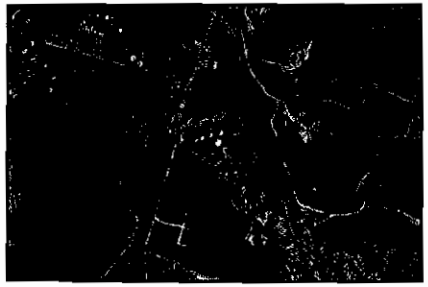


FOTO AERIAL

DESCRIPCION:
MAPA TOPOGRÁFICO, MAPA DE FEMA, PLANO DE SITUACION

JOSE L. RIVERA FIGUEROA
INGENIERO
LICENCIADO
CERTIFICADO NO
LIC # 17816
PUERTO RICO

S-1 | 1 | 1

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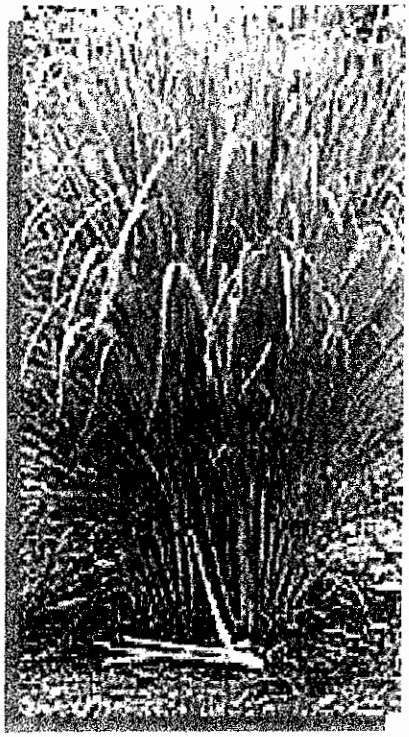
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ORY6932

13. Inventario con descripción detallada de la flora y fauna existente en el predio

I. Flora existente en el lugar:

Nombre Científico	Nombre Común	Familia
Acacia farnesiana	Acacia	Hierbas y Bejucos de PR
Bracharia mutica	Malojillo o limoncillo	Hierbas y Bejucos de PR
Sporobutus indicus	Matojo	Hierbas y Bejucos de PR
Panicum maximum	Yerba guinea	Hierbas y Bejucos de PR
Urena lobata	Cadillo	Hierbas y Bejucos de PR



Malojillo o limoncillo



Acacia

II. Fauna Existente en el lugar:

Nombre Científico	Nombre Común	Familia
Anolis cristatellus	Lagartijo común	Reptiles de PR
Ameiba exul	Lucia	Reptiles de PR



Lagartijo común

14. Descripción de los tipos y las características de los suelos y las formaciones geológicas existentes en el área del proyecto y los predios adyacentes

De acuerdo con la información suministrada por la Junta de Planificación de Puerto Rico, el área donde ubica el proyecto está clasificada como SNS (78%), YcC (10%), AgF (7%), Ct (5%).

15. Documento explicativo de la relación entre sistemas naturales y artificiales existentes en el área del proyecto y los predios adyacentes

En el solar donde ubica el área del proyecto existe un canal para las agua de escorrentías que el cual tiene un ancho en su tope de 14.63 metros aproximados y se encuentra a una distancia de separación de 14.54 metros aproximados de las estructuras a ser desmanteladas.





16. Análisis del hábitat natural y las medidas de mitigación correspondientes, según sea necesario

Actualmente los predios están totalmente abandonados y contaminados con material aislante que contiene asbestos. Este asbesto ha ganado acceso a distintas partes del terreno lo que aumenta el riesgo de enfermedad. TIP para evitar la propagación del material conteniendo asbesto, requirió los servicios de Homeca para llevar a cabo la mitigación ambiental de la facilidad y evitar que el entorno se vea afectado por el mismo. Con este fin el pasado, 27 de septiembre de 2011, se obtuvo un permiso por parte de la Junta de Calidad Ambiental (Anejo 1 y 2) para mitigar el material aislante con contenido de asbesto de toda la facilidad y así evitar la exposición al hábitat natural compuesto por Anolis cristatellus (Lagartijo común) y Ameiba exul (Iguana (Lucia)).

ANEJO 1

GOBIERNO DE PUERTO RICO
OFICINA DEL GOBERNADOR
JUNTA DE CALIDAD AMBIENTAL

Área de Calidad de Aire

PUERTO RICO VERDE

SOLICITUD DE PERMISO GENERAL
MANEJO DE MATERIALES CON CONTENIDO DE ASBESTO

HOJA DE COTEJO

PG-ASB 57 09 10 - 0125 R
PARA USO OFICIAL

☐ SOLICITUD INICIAL

	Documentos Solicitados	Sometido Solicitante	Recibido Uso oficial
1.	Un original y una copia del Formulario de la Solicitud de Permiso General Manejo de Materiales con Contenido de Asbesto completo en todas sus partes	☑	☑
2.	Plan de Trabajo de acuerdo con las Guías para Remociones de Asbesto del Reglamento para el Control de la Contaminación Atmosférica	☑	☑
3.	Plano o croquis de las estructuras o edificios donde se ilustra distribuida el área de trabajo. Incluye cuarto limpio, baño, cuarto sucio, sistema de aire negativo, salidas de aire limpio	☑	☐
4.	Plano de localización claro y legible	☑	☑
5.	Carta original de transportista(s)	☑	☑
6.	Carta original del lugar de disposición	☑	☐
7.	Copia de la tarjeta de registro vigente del Diseñador del Proyecto	☑	☐
8.	Copia de las tarjetas de registro vigentes de Trabajadores	☑	☐
9.	Copia de las tarjetas de registro vigentes de Supervisores	☑	☐
10.	Copia de las tarjetas de registro de los Especialistas en Muestreo	☑	☐
11.	Copia *AIHA Asbestos Analyst Registry (AAT Performance Results)* para los Especialistas en Muestreo presentados en la solicitud.	☑	☑
12.	Copia de la notificación a EPA ponchada con por lo menos 10 días laborables antes de la radicación si marcó SI en el inciso II (H) de esta solicitud	☑	☑
13.	Pago correcto según requerido por el formulario de permiso general	☑	☐

2010 SEP -8 PM 3:47 JUNTA DE CALIDAD AMBIENTAL

☐ MODIFICACIONES

	Documentos Solicitados	Sometido Solicitante	Recibido Uso oficial
1.	Un original y una copia del Formulario de la Solicitud de Permiso General Manejo de Materiales con Contenido de Asbesto completo en todas sus partes	☐	☐
2.	Copia del permiso que desea modificar	☐	☐
3.	Carta explicativa de la modificación solicitada (por ej. si es un aumento en yardas cúbicas, explicación de la diferencia)	☐	☐
4.	Para cambio de laboratorio, copia de las tarjetas de registro de los Especialistas en Muestreo	☐	☐
5.	Para cambio de transportista, carta original del nuevo transportista(s)	☐	☐
6.	Para cambio de lugar de disposición, carta original del lugar de disposición	☐	☐
7.	Pago correcto según requerido por el formulario de permiso general	☐	☐

☐ TRANSFERENCIAS

	Documentos Solicitados	Sometido Solicitante	Recibido Uso oficial
1.	Un original y una copia del Formulario de la Solicitud de Permiso General Manejo de Materiales con Contenido de Asbesto completo en todas sus partes	☐	☐
2.	Copia del permiso que desea transferir	☐	☐
3.	Acuerdo firmado por las partes que incluya la fecha de transferencia	☐	☐
4.	Pago correcto según requerido por el formulario de permiso general	☐	☐

PARA USO OFICIAL

Recibido por: _____ Fecha: 28/09/2010
Representante autorizado JCA (Día / Mes / Año)

JUNTA DE CALIDAD AMBIENTAL

Dirección Física: Edificio de Agencias Ambientales Cruz A. Matos, Urbanización San José Industrial Park
1375 Avenida Ponce de León, San Juan, PR 00926-2604 • Teléfono 787-767-8181 • Fax 787-756-5906
Dirección Postal: Apartado 11488, San Juan, PR 00910

ESTADO LIBRE ASOCIADO DE PUERTO RICO
Oficina del Gobernador
Junta de Calidad Ambiental

Área de Calidad de Aire

SOLICITUD DE PERMISO GENERAL
MANEJO DE MATERIALES CON CONTENIDO DE ASBESTO

☒ **SOLICITUD NUEVA**
☐ **MODIFICACIÓN**
☐ **TRANSFERENCIA**

PG-ASB- 57-09-10-0125Q
PARA USO OFICIAL

I. IDENTIFICACIÓN DE PERSONAS Y ENTIDADES RESPONSABLES

Entidad	Nombre y Seg. Soc. Patronal	Dirección Física	Dirección Postal
Dueño	Tallaboa Industrial Park SS 660 - 72 - 0694 roberto@procaribe.com Correo Electrónico	Carr. 385 Km 5.4 Bo. Tallaboa Poniente Peñuelas, PR 00624 Teléfono: 939-940-2074	Carr 385 Km 5.4 Bo. Tallaboa Poniente Peñuelas, PR 00624 Fax: 787-836-2026
Agente o Rep. Autorizado	Homeca Recycling SS 660 - 59 - 6814 lechevarria@homecarecycling.com Correo Electrónico	1508 Paseo Fagot Suite 3 Urb. Jardines de Fagot Ponce, PR 00716 Teléfono: 787-689-6150	PO BOX 231 Mercedita, PR 00715 Fax: 1-800-981-1218

II. INFORMACIÓN DEL PROYECTO

A. Nombre del Proyecto: Desmantelamiento Antigua Planta Olefins

B. Localización Física: Carr 385 (Calle o Carretera) Km 5.4 (Núm. o Km)
Bo. Tallaboa Poniente (Barrio) Peñuelas, PR 00624 (Pueblo)

C. Localización del Proyecto en Coordenadas Lambert (Stateplane NAD83): X: 42.8218444 Y: 37.1780722

D. Fecha estimada: Inicio de obras: 27 / 09 / 10 (Día / Mes / Año) Terminación de las obras: 27 / 09 / 11 (Día / Mes / Año)

E. Cantidad de *mca*[1] a removerse: 550 yardas[3] 13,000 pies[2] 11,000 pies lineales

F. Cantidad de mca a generarse: 550 yardas[3]

G. Descripción (identificación edificio, piso, etc.) de la estructura(s) donde se removerá el mca:
Los trabajos se realizaran en la Antigua Planta Petroquímica

H. ¿El mca a removerse cumple con la definición de **mca regulado** según el 40 CRF[2] §61.141 y le aplica el 40 CRF §61.145(b)?
Sí [X] No [ ]
Se le apercibe que la determinación incorrecta de esta clasificación del material y el no emitir la notificación aplicable, podrá conllevar la revocación del permiso y la imposición de las multas correspondientes.

I. **Certificación del Diseñador del Plan de Trabajo:** Certifico que el Plan de Trabajo que se incluye con esta solicitud de permiso fue preparado de acuerdo con las Guías para Plan de Trabajo para Remociones de Asbesto del Reglamento para el Control de la Contaminación Atmosférica (RCCA), las buenas prácticas y siguiendo las reglamentaciones federales y estatales aplicables del 40 CRF Parte 763 y Parte 61 Subparte M, del 29 CRF §§1910.1001, 1910.134, 1926.1101, de la Regla 422 del Reglamento para el Control de la Contaminación Atmosférica y la Regla 1005 de la Regla de Manejo de Desperdicios No-Peligrosos.

Firma del Diseñador de Proyecto (en original)

2010 SEP -8 PM 1:47 JCA RADICACIONES

[1] *mca*: material con contenido de asbesto
[2] Código de Regulaciones Federales

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III. CERTIFICACIÓN DE INFORMACIÓN POR EL DUEÑO

Yo, Ramon S. Gonzalez (Nombre, Inicial, Apellidos) mayor de edad, casado (Estado Civil), vecino de San Juan (Municipio) y que ocupo la posición de Presidente en Tallaboa Industrial Park (Organización, Agencia, Compañía u otro)

Certifico que:

1. Mi nombre y demás circunstancias personales son las antes indicadas.
2. Toda la información vertida en esta solicitud y en los documentos que se acompañan es cierta, correcta y completa a mi mejor saber y entender.
3. Afirmo y reconozco las consecuencias de incluir y someter información falsa o incompleta en dichos documentos.
4. Autorizo a Christopher Lugo (Nombre, Inicial, Apellidos), que ocupa la posición de Asistente Gerente en Homeca recycling (Organización, Agencia, Compañía u otro) a radicar y llevar a cabo las gestiones necesarias, relacionadas con este permiso, en mi nombre y representación ante la Junta.

Y para que así conste, firmo la presente certificación en San Juan (Municipio) de Puerto Rico, hoy 22/Sept/2010 (Día / Mes / Año).

Firma del dueño (en original)

IV. IDENTIFICACIÓN DE SERVICIOS Y ENTIDADES RESPONSABLES: Debe incluir como mínimo un laboratorio, un transportador y un lugar de disposición.

Entidad	Nombre, Núm. Registro o permiso	Dirección Física	Dirección Postal
Diseñador de Proyecto	Adolfo Valdes Agra ASB- 1109- 0553-PD Vence: 10/ 25 / 2010 Correo Electrónico	Urb. Los Almendros Calle Lady Di Ponce, PR 00716 Teléfono: 787-504-0279	PO BOX 219 Mercedita, PR 00715 Fax: 787-842-8542
Laboratorio	The Atsmospheric Assessment Group SS 660 - 53 - 7474 Correo Electrónico	Condominio Irizarry 1 y 2 B. Ave. Las Americas Ponce, PR 00732 Teléfono: 7878428592	PO BOX 219 Mercedita, PR 00715-0219 Fax:7878428542
	AES International, INC SS 660 - 49 - 5330 aesint@coqui.net Correo Electrónico	611 Monserrate ST 2nd Floor Santurce, PR Teléfono: 787-722-0220	611 Monserrate ST 2nd Floor Santurce, PR Fax:787-724-5788
Transportador	RE Environmental Group Núm. SR - 58 - 0574 Vence: 06 /mayo /2014 reenvironmentalgroup@gmail.com Correo Electrónico	Sunset Park, # 10 Arroyo, PR 00714 Teléfono:787-864-8855	PO BOX 479 Arroyo, PR 00714 Fax: 787-864-8844
	Núm. SR - ____ - ____ Vence: ____/____/____ Correo Electrónico	Teléfono:	Fax:
	Núm. SR - ____ - ____ Vence: ____/____/____ Correo Electrónico	Teléfono:	Fax:
	Núm. SR - ____ - ____ Vence: ____/____/____ Correo Electrónico	Teléfono:	Fax:

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Lugar de Disposición	Allied Waste Núm. IDF - 58 - 0008 Vence: 22 /nov /2014 w.valenzuela@republicservice.com Correo Electrónico	Bo. Cotorra Ave. Baramaya Final Ponce, PR 00732 Teléfono: 787-841-7775	PO BOX 7104 PONCE, PR 00732 Fax:7 787-841-1048
	Núm. IDF - ___ - _____ Vence: ___/___/_____ Correo Electrónico	Teléfono:	Fax:

V. DETERMINACIÓN ADMINISTRATIVA (PARA USO OFICIAL)

Este permiso podrá ser revocado (cancelado) antes de la fecha de vencimiento si se violan las condiciones del permiso o las disposiciones del Reglamento para el Control de la Contaminación Atmosférica, del Reglamento para el Manejo de Desperdicios Sólidos o del Reglamento para el Trámite de los Permisos Generales. La información y condiciones sometidas en su solicitud forman parte de esta autorización. La Junta se reserva el derecho de intervenir con la fuente en otros aspectos no cubiertos en esta autorización.

Fecha de expedición: 28,09,2010 (Día / Mes / Año)

Fecha de expiración: 27,09,2011 (Día / Mes / Año)

Firma Representante JCA

000946

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CONDICIONES PERMISO GENERAL PARA EL MANEJO DE MATERIALES CON CONTENIDO DE ASBESTO (CONTINUACIÓN)

22. Deberá utilizar dos capas de polietileno de 4 milésimas de espesor en las paredes y dos capas de 6 milésimas de espesor en el suelo.

23. En caso de trabajos de remoción de estucado de techo utilizando agua a presión deberá cumplir con lo siguiente:

    a) el sistema que se utilice para remover el estucado deberá instalarse, conservarse y operarse de acuerdo con las condiciones especificadas por el fabricante;
    b) deberá asegurarse de cubrir las paredes de tal manera que los plásticos no se desprendan durante la remoción;
    c) colocará diques en las puertas para asegurarse que el agua no se filtre hacia el exterior;
    d) deberá sellar adecuadamente los drenajes que se encuentren dentro del área de trabajo;
    e) el agua utilizada en la remoción deberá ser colectada mediante equipos de succión equipados con filtros HEPA;
    f) el agua colectada deberá ser filtrada en un sistema de filtros HEPA. Los filtros estarán colocados en serie de tal forma que el tamaño del poro disminuya progresivamente (100, 50 y 5 micrones).
    g) evitará usar agua en exceso la cual pudiera ganar acceso al terreno o a los cuerpos de agua a través de los drenajes o que pudiera filtrarse fuera del encierre.
    h) el agua una vez filtrada se dispondrá a través del sistema de alcantarillado sanitario.

24. En caso de trabajos de remoción de materiales de impermeabilización de techo deberá cumplir con lo siguiente:

    a) mantendrá el material húmedo en todo momento;
    b) evitará barrer en seco;
    c) los equipos de remoción estarán equipados con aspersores de agua o equipos de succión equipados con filtros HEPA; y
    d) evitará usar agua enmendada en exceso la cual pudiera ganar acceso al terreno o a los cuerpos de agua a través de los drenajes del agua de lluvia, respiraderos o ventiladores.

25. En caso de trabajos de remoción de pegamento de losas de vinilo mediante el uso de solventes deberá cumplir con lo siguiente:

    a) mantendrá copia de la hoja de datos de seguridad del material (MSDS, en inglés) del solvente a utilizarse en el lugar de trabajo en todo momento;
    b) deberá cumplir con todas las especificaciones establecidas en la hoja de datos de seguridad del material al manejar el mismo;
    c) evitará utilizar el solvente en lugares donde se registran altas temperaturas;
    d) deberá aislar el área de trabajo e instalar rótulos de precaución;
    e) deberá sellar el área de trabajo con plástico de 6 milésimas;
    f) mantendrá ventilación mecánica con filtros HEPA; y
    g) evitará que el solvente entre a los drenajes del edificio los cuales a su vez pudieran llegar al alcantarillado pluvial o sanitario.

26. Durante los trabajos de remoción de losas de vinilo mediante aplicación de calor deberá cumplir con lo siguiente:

    a) las losas de vinilo deberán estar en buenas condiciones;
    b) deberá examinar previamente las losas de vinilo para determinar si las mismas pudieran convertirse en desmenuzables durante la remoción;
    c) no podrá remover el pegamento de la losa mediante la técnica de aplicación de calor;
    d) evitará usar calor en exceso lo cual pudiera ocasionar incendios;
    e) deberá aislar el área de trabajo e instalar rótulos de precaución;
    f) deberá sellar el área de trabajo con plástico de 6 milésimas;
    g) mantendrá ventilación mecánica con filtros HEPA; y
    h) los trabajadores deberán utilizar respiradores equipados con filtros para vapores orgánicos.

27. Deberá preparar un área de descontaminación (decon) conectada junto al área regulada que incluya, sin limitarse a, un cuarto limpio, baño y un cuarto sucio.

28. En los trabajos Categoría I para la remoción de aislamiento de tuberías, las bolsas de guantes se pueden usar solamente para remover no más de 3 pies lineales al mismo tiempo. Para cantidades mayores de 3 pies lineales será necesario la construcción de un mini encierre o encierre completo. Una bolsa de plástico con guantes internos que provee un área encerrada para manejar las herramientas y el material con contenido de asbesto.

29. Las bolsas de guantes no deben utilizarse en superficies con una temperatura mayor de 150°F (65°C).

30. Al usar bolsas de guantes seguirá las reglas existentes en trabajos mayores para evitar que las fibras de asbesto lleguen al aire, esto incluye, pero sin limitarse a:

    a) mantener húmedo el asbesto.
    b) aislar el área de trabajo e instalar rótulos de precaución.
    c) filtrar el aire utilizando filtros HEPA.
    d) mantener presión negativa de aire dentro de la bolsa usando aspirador con filtro HEPA.
    e) las bolsas de guantes deberán tener rótulos de precaución de acuerdo con la reglamentación vigente.
    f) realizar muestreos de aire antes durante y después de las actividades de remoción y deberá realizar muestreo de aire personal durante dichas actividades.

31. Durante trabajos de remoción de escombros que se encuentren sobre el terreno, deberá colectar y disponer todo el terreno contaminado con partículas del material con asbesto las cuales no puedan ser colectadas manualmente o con aspiradores HEPA.

PROTECCIÓN PERSONAL

32. Deberá cumplir con las medidas de seguridad y equipo de protección personal especificados en su plan de remoción de asbesto según la reglamentación que especifica la Oficina de Seguridad y Salud en el Trabajo (OSHO) del Departamento del Trabajo y Recursos Humanos.

MONITOREO GENERAL (MUESTRAS DE AIRE)

33. El análisis de las muestras de aire tomadas durante los trabajos de remoción estará a cargo de el/los laboratorio/s identificado/s en este formulario de solicitud de permiso general. El laboratorio contratado deberá estar acreditado por la *American Industriel Hygiene Association* (AIHA, en inglés). De haber algún cambio de laboratorio, deberá someter antes una modificación a este permiso.

34. Deberá realizar los muestreos de aire antes, durante y al finalizar la actividad de remoción.

35. Tomará un mínimo de seis muestras de aire al día.

36. Deberá realizarle muestras personales diarias al 25% de los trabajadores que se encuentren laborando en la actividad de remoción. Estas muestras deberán incluir el nombre y el número de registro otorgado por la Junta de cada persona que realice las muestras.

37. Las muestras de aire personales, de área y finales serán analizadas mediante el Método NIOSH 7400 – Microscopía de Contraste de Fase (PCM, en inglés).

38. Las muestras de aire de área deberán incluir la información por el nombre del edificio, las áreas específicas de los edificios y las estructuras de la planta donde se realicen. Este deberá realizarlo un especialista en muestreo, certificado y autorizado por la Junta. Deberán incluir el nombre y el número de registro otorgado por la Junta de cada persona que realice las muestras.

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39. Deberá limpiar el cuarto con paños húmedos y esperar veinticuatro (24) horas. Limpiar el cuarto de nuevo con paños húmedos y aspirado de filtro HEPA. El cuarto se considera limpio cuando solamente hay 0.005 fibras por centímetro cúbico (f/cc).

40. Si la remoción de material con contenido de asbesto se realiza en una escuela pública o privada, las muestras de aire tomadas luego de la limpieza final (*Clearance*) serán analizadas mediante el método de Microscopía de Transmisión de Electrones (TEM, en inglés). El análisis se hará de acuerdo con los requisitos aplicables en el 40 CRF, Parte 763, Subparte E.

41. Si durante los trabajos de remoción surge la necesidad de tomar muestras de otros materiales sospechosos, los mismos deberán ser muestreados por un inspector certificado y registrado en la Junta. Las muestras colectadas deberán ser analizadas por un laboratorio reconocido por el *National Voluntary Laboratory Accreditation Program* (NVLAP, en inglés) y que cumpla satisfactoriamente con los criterios del *National Institute of Standards and Technology* (NIST, en inglés). La acreditación del laboratorio deberá incluir el análisis de las muestras mediante Microscopía de Luz Polarizada (PLM, en inglés).

TRANSPORTACIÓN Y DISPOSICIÓN DEL MCA

42. Las porciones pequeñas del material de desecho así como, todo material que se usó durante la limpieza o utilizados en el área de trabajo, deberán empacarse en bolsas dobles de 6 milésimas de espesor u otro tipo de envase impermeable apropiado que evite la emisión de fibras o partículas fuera de los envases y dispuestos según aprobado por la Junta.

43. En los envases deberán utilizar etiquetas que establezcan:

PELIGRO
CONTIENE FIBRAS DE ASBESTO
EVITE CREAR POLVO
PELIGRO DE CANCER Y ENFERMEDADES DE LOS PULMONES

44. La transportación del material contaminado estará a cargo de la compañía identificada en este formulario de solicitud de permiso general. De surgir la necesidad de utilizar otro transportista, deberá antes modificar este permiso e incluir el número de Permiso para Servicio de Recolección y Transportación de Desperdicios Sólidos No Peligrosos de la JCA y la fecha de expiración del mismo. Además incluirá la carta original del nuevo transportista.

45. La disposición final del material contaminado se hará en el sistema de relleno sanitario identificado en este formulario de solicitud de permiso general. De surgir la necesidad de utilizar otro sistema de relleno sanitario, deberá antes modificar este permiso e incluir el número de Permiso de Operación para un Sistema de Relleno Sanitario de Desperdicios Sólidos No Peligrosos de la JCA y la fecha de expiración del mismo. Además incluirá la carta original del lugar de disposición.

46. El lugar de disposición se rotulará de la siguiente manera:

PELIGRO
ÁREA DE DISPOSICIÓN DE ASBESTO

INFORMES

47. Deberá someter un informe mensual antes del día 15 del próximo mes que incluya las tareas específicas de los edificios y las estructuras de la planta donde se realizan las actividades de remoción junto con la cantidad de material con contenido de asbesto removidas. Estos informes no sustituyen el informe final de cierre.

48. Deberá someter un informe final de cierre en forma clara y legible dentro de los próximos 60 días de haber finalizado la remoción de material con contenido de asbesto. El mismo deberá incluir:

    a) hojas de cadena de custodia
    b) manifiestos de la disposición del material (claros y legibles)
    c) resumen de las tareas diarias

    De haber alguna diferencia entre la cantidad de asbesto autorizada para la remoción y la dispuesta, deberá someter una carta explicando la razón de la diferencia.

49. El incumplimiento con cualquiera de los requisitos de este permiso constituirá una violación y el dueño, agente o representante autorizado del proyecto estará sujeto a una orden administrativa a una penalidad administrativa o ambas.

50. Este permiso o sus modificaciones no podrán sobrepasar el periodo de 5 años de vigencia. Si el proyecto continua por más de los 5 años solicitados, deberá solicitar un permiso nuevo, o sea presentar una solicitud inicial.

51. Deberá someter a la Junta cualquier información adicional que ésta requiera.

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HOJA DE PAGO

Nombre del Proyecto: Desmantelamiento P.R. Olefins

Nombre del Solicitante: Horneca Recycling Center Co

I. Cuotas de Radicación

A. Radicación de Solicitud

1. **Solicitud nueva (cargo fijo $750.00)**.....$750.00

2. **Modificación ($300.00)**.....$0000.00
Las modificaciones incluyen cambios en transportista, lugar de disposición, laboratorio, cambios al plan de trabajo, aumento en cantidad de material removido y aumento en la duración del proyecto. Si existe aumento en la duración del proyecto deberá pagar en adición la cantidad correspondiente a la nueva duración del proyecto.

B. Cargos Fijos por Duración del proyecto de remoción de mca
La duración del proyecto empezará a contar a partir de la fecha de radicación de este permiso.

1. **De 1 a 30 días**.....$0000.00
$350.00
2. **De 31 a 90 días**.....$0000.00
$900.00
3. **De 91 a 365 días**.....$1500.00
$1,500.00
4. **De 366 a 730 días (2 años)**.....$0000.00
$3,000.00
5. **De 731 a 1095 días (3 años)**.....$0000.00
$4,500.00
6. **De 1096 a 1825 días (5 años)**.....$0000.00
$6,000.00

TOTAL.....$2250.00

C. Viviendas Unifamiliares.....$0000.00
Las viviendas unifamiliares sólo pagarán un cargo por radicación de $100.00 y estarán exentas del cargo fijo por duración del proyecto y se definen como una unidad de vivienda o residencia privada donde reside una familia y el dueño de la residencia es una persona natural y no una agencia, empresa, organización o corporación pública o privada. Este permiso será emitido por un año.

II. Cuotas de Transferencia (cargo fijo $100.00).....$0000.00

Nota: Los cargos por radicación y cargos fijos requeridos en esta solicitud no serán devueltos.

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SECRETARÍA

Cotejado por: _____ Fecha: 28/09/2010 Cantidad a pagar: $ 2,250.00
Radicador (Día / Mes / Año)

DIVISIÓN DE FINANZAS

Efectivo ☐ Giro ☐ Cheque Corporativo ☐ #_____ Recibo # ☐☐☐☐☐☐☐☐☐☐

_____ ___/___/___
Firma Recaudador Oficial (Día / Mes / Año)

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PARA USO OFICIAL

CONDICIONES PERMISO GENERAL PARA EL MANEJO DE MATERIALES CON CONTENIDO DE ASBESTO

1. Mantendrá copia de este permiso en el proyecto en todo momento.

2. Se autoriza específicamente la actividad descrita en el formulario de la solicitud de permiso general para el manejo de materiales con contenido de asbesto y la misma se llevará a cabo de acuerdo con el plan de trabajo presentado junto con el formulario de esta solicitud.

3. La actividad de manejo de materiales con contenido de asbesto no podrá exceder el periodo solicitado en el formulario de solicitud de permiso general. El dueño, agente o representante autorizado deberá presentar una modificación a este permiso si la actividad para el manejo de materiales con contenido de asbesto debe extenderse por más del tiempo solicitado. Si el permiso expira antes de someterse la modificación, deberá someter una nueva solicitud y un formulario nuevo de permiso general.

4. El dueño, agente o representante autorizado deberá notificar a la Junta de Calidad Ambiental (JCA) la fecha real de comienzo el mismo día o antes de comenzar las actividades de remoción de material con contenido de asbesto.

5. El dueño, agente o representante autorizado deberá cumplir con los requisitos aplicables de notificación contenidos en la Sección 61.145(b) del 40 CRF. Esta notificación, de ser aplicable, deberá enviarse en original y dos copias a *US EPA Caribbean Environmental Protection Division*, Centro Europa Building, Suite 417, 1492 Ponce de León Avenue, Stop 22, San Juan, PR 00907-4127. Si de acuerdo con la Sección 61.145(b) del 40 CRF, el dueño, agente o representante autorizado tuviese que someter a la EPA otra notificación adicional a la radicada con esta solicitud, deberá someter a la JCA una copia de dicha notificación adicional sometida a la EPA en la misma fecha en que notifique a la EPA. Se la apercibe que el incumplimiento con este requisito, de ser aplicable, podrá conllevar la revocación del permiso y la imposición de las multas correspondientes.

6. El dueño, agente o representante autorizado deberá notificar por escrito la fecha real de terminación del proyecto de remoción no más tarde de 5 días de terminado el proyecto. Se aceptarán notificaciones adelantadas por fax. Si la notificación es adelantada por fax, deberá enviar la notificación original por correo o radicarla en la Oficina de Radicaciones de Secretaría de la Junta de Calidad Ambiental.

7. Deberá cumplir con todas las especificaciones establecidas en el plan de trabajo entregado con este formulario de solicitud de permiso general. Para efectuar cualquier cambio de las especificaciones del plan de trabajo deberá someter una modificación a este permiso.

8. Las actividades de remoción, transporte y disposición del material con contenido de asbesto se realizarán de acuerdo con los requisitos y en cumplimiento con la Regla 422 del Reglamento para el Control de la Contaminación Atmosférica (RCCA) y de acuerdo con los requisitos aplicables del:

   a. Título 40 del CRF, Parte 61, Subparte M, Estándares Nacionales de Emisiones para asbesto.

   b. Título 40 del CRF, Parte 763, Subparte E, Materiales con Contenido de Asbesto en las Escuelas si la actividad de remoción, transporte y disposición del material que contiene asbesto es realizada en una escuela pública o privada.

9. De acuerdo con la Regla 420 del Reglamento para el Control de la Contaminación Atmosférica (RCCA) no causará ni permitirá la emisión a la atmósfera de materia que produzca un olor objetable o desagradable que se pueda percibir en predios que no sean aquellos que han sido designados para propósitos de la remoción de asbesto.

PERSONAL AUTORIZADO

10. Todo el personal (trabajador, supervisor, inspector, planificador, diseñador de proyecto y especialista en muestreo) que trabaje en la remoción de asbesto deberá estar autorizado y registrado en la Junta. Las personas autorizadas para trabajar en la remoción de asbesto son las incluidas junto con este formulario de solicitud de permiso general y cuyas tarjetas estén vigentes durante el período en que se lleve a cabo la actividad aplicable (p. ej. inspección, monitoreo, remoción, planificación, supervisión).

11. El dueño, agente o representante autorizado será responsable de que todo el personal tenga consigo y en un lugar visible su tarjeta de registro de la JCA mientras trabaje en la actividad de manejo de materiales con contenido de asbesto.

12. Deberá mantener un registro diario del nombre, número de registro de la tarjeta de la JCA y la firma de todo el personal que trabaje en el proyecto. Este deberá estar disponible en el proyecto para la inspección y la revisión de personal técnico de la JCA.

13. Deberá notificar por escrito, en un período no mayor de 5 días, el nombre de las personas que no fueron incluidas en el plan de trabajo y que comenzarán a trabajar en la remoción de asbesto luego de sometido este formulario de solicitud de permiso general. La notificación deberá incluir copia de las tarjetas de registro vigentes de la JCA para realizar estas labores.

14. No se permitirá personal en trabajos de remoción de asbesto cuya tarjeta de registro de la Junta esté vencida. Deberá recertificar a todo el personal que trabaje en la remoción de asbesto antes de la fecha de expiración de sus tarjetas y someterá evidencia de la recertificación (copia de las nuevas tarjetas) a la JCA.

DURANTE LA OPERACIÓN

15. Deberá aislar el área de trabajo de manera que evite el acceso de personas ajenas a dichas áreas.

16. Deberá instalar por lo menos 2 rótulos en lugares visibles, accesibles y legibles a una distancia no mayor de 50 pies y no menor de 20 pies del área de trabajo. El área de trabajo tiene que estar rotulada de la siguiente manera:

PELIGRO NO ENTRE, removiéndose material que contiene asbesto.
Inhalar fibras de asbesto puede causar daños serios a la salud.
Evite levantar polvo.

17. Durante las tareas de remoción de material con contenido de asbesto, deberá estar presente un supervisor certificado que evidencie estar en el registro de personas certificadas de la JCA en trabajos de asbesto.

18. Antes y durante la operación deberá humedecer la superficie del material para que éste no gane acceso al aire o al terreno.

19. El material debe ser embolsado, envuelto o mantenerse mojado hasta que sea transferido a un recipiente cerrado antes del final de la jornada de trabajo.

20. Deberá utilizar ventilación local equipada con Filtros para Partículas Alta Eficiencia (HEPA, en inglés) cuando las labores de remoción lo requieran.

21. Durante el proceso de remoción, las partículas pequeñas del material deberán ser colectadas mediante el uso de aspiradoras equipadas con filtros HEPA.

ANEJO 2

GOBIERNO DE PUERTO RICO
OFICINA DEL GOBERNADOR
JUNTA DE CALIDAD AMBIENTAL

Área de Calidad de Aire

PUERTO RICO VERDE

SOLICITUD DE PERMISO GENERAL
MANEJO DE MATERIALES CON CONTENIDO DE ASBESTO

HOJA DE COTEJO

PG-ASB 57-0911-0112 RC
PARA USO OFICIAL

☑ SOLICITUD INICIAL

	Documentos Solicitados	Sometido Solicitante	Recibido Uso oficial
1.	Un original y una copia del Formulario de la Solicitud de Permiso General Manejo de Materiales con Contenido de Asbesto completo en todas sus partes	☑	☑
2.	Plan de Trabajo de acuerdo con las Guías para Remociones de Asbesto del Reglamento para el Control de la Contaminación Atmosférica	☑	☑
3.	Plano o croquis de las estructuras o edificios donde se ilustra distribuida el área de trabajo. Incluye cuarto limpio, baño, cuarto sucio, sistema de aire negativo, salidas de aire limpio	☑	☑
4.	Plano de localización claro y legible	☑	☑
5.	Carta original de transportista(s)	☑	☑
6.	Carta original del lugar de disposición	☑	☑
7.	Copia de la tarjeta de registro vigente del Diseñador del Proyecto	☑	☑
8.	Copia de las tarjetas de registro vigentes de Trabajadores	☑	☑
9.	Copia de las tarjetas de registro vigentes de Supervisores	☑	☑
10.	Copia de las tarjetas de registro de los Especialistas en Muestreo	☑	☑
11.	Copia *AIHA Asbestos Analyst Registry (AAT Performance Results)* para los Especialistas en Muestreo presentados en la solicitud.	☑	☑
12.	Copia de la notificación a EPA ponchada con por lo menos 10 días laborables antes de la radicación si marcó Sí en el inciso II (H) de esta solicitud	☑	☑
13.	Pago correcto según requerido por el formulario de permiso general	☑	☑

☐ MODIFICACIONES

	Documentos Solicitados	Sometido Solicitante	Recibido Uso oficial
1.	Un original y una copia del Formulario de la Solicitud de Permiso General Manejo de Materiales con Contenido de Asbesto completo en todas sus partes	☐	☐
2.	Copia del permiso que desea modificar	☐	☐
3.	Carta explicativa de la modificación solicitada (por ej. si es un aumento en yardas cúbicas, explicación de la diferencia)	☐	☐
4.	Para cambio de laboratorio, copia de las tarjetas de registro de los Especialistas en Muestreo	☐	☐
5.	Para cambio de transportista, carta original del nuevo transportista(s)	☐	☐
6.	Para cambio de lugar de disposición, carta original del lugar de disposición	☐	☐
7.	Pago correcto según requerido por el formulario de permiso general	☐	☐

2011 SEP 30 PM 2:20 RADICACIÓN JCA

☐ TRANSFERENCIAS

	Documentos Solicitados	Sometido Solicitante	Recibido Uso oficial
1.	Un original y una copia del Formulario de la Solicitud de Permiso General Manejo de Materiales con Contenido de Asbesto completo en todas sus partes	☐	☐
2.	Copia del permiso que desea transferir	☐	☐
3.	Acuerdo firmado por las partes que incluya la fecha de transferencia	☐	☐
4.	Pago correcto según requerido por el formulario de permiso general	☐	☐

PARA USO OFICIAL

Recibido por: _____ Fecha: 30 / 09 / 2011
Representante autorizado JCA (Día / Mes / Año)

Dirección Física: Edificio de Agencias Ambientales Cruz A. Matos, Urbanización San José Industrial Park
1375 Avenida Ponce de León, San Juan, PR 00926-2604 • Teléfono 787-767-8181 • Fax 787-756-5906
Dirección Postal: Apartado 11488, San Juan, PR 00910

GOBIERNO DE PUERTO RICO
OFICINA DEL GOBERNADOR
JUNTA DE CALIDAD AMBIENTAL

Área de Calidad de Aire

PUERTO RICO VERDE

SOLICITUD DE PERMISO GENERAL
MANEJO DE MATERIALES CON CONTENIDO DE ASBESTO

☒ SOLICITUD NUEVA
☐ MODIFICACIÓN
☐ TRANSFERENCIA

PG-ASB-52-0911-0112 RC
PARA USO OFICIAL

I. IDENTIFICACIÓN DE PERSONAS Y ENTIDADES RESPONSABLES

Entidad	Nombre y Seg. Soc. Patronal	Dirección Física	Dirección Postal
Dueño	Tallaboa Industrial Park SS 660 - 72 - 0694 roberto@procaribe.com Correo Electrónico	Carr 385 Km. 5.4 Bo. Tallaboa Poniente Sector Pueblito Peñuelas, PR 00624 Teléfono: 787-836-2000	Carr 385 Km 5.4 Procaribe Firm Delivery Bo. Tallaboa Poniente Sector Pueblito Peñuelas, PR 00624 Fax:7870836-2026
Agente o Rep. Autorizado	Homeca Recycling Center SS 660 - 59 - 6814 luz@homecainc.com Correo Electrónico	Calle Salmon # 1 Puerto de Ponce Bo. La Playa Ponce, PR Teléfono: 787-689-6150	PO Box 231 Mercedita, PR 00715 Fax: 800-491-1218

II. INFORMACIÓN DEL PROYECTO

A. Nombre del Proyecto: Desmantelamiento Antiua Planta Olefins

B. Localización Física: carretera 365 Km. 5.4 carretera 127 km. 19.1
(Calle o Carretera) (Núm. o Km)
Tallsboa Poniente Sector El Pueblito Peñuelas, PR 00624
(Barrio) (Pueblo)

C. Localización del Proyecto en Coordenadas Lambert (Stateplane NAD83): X: 42.8218 . 444 Y: 37.1780 . 722

D. Fecha estimada: Inicio de obras: 27 /09 /10 (Día / Mes / Año) Terminación de las obras: 26 /09 /2012 (Día / Mes / Año)

E. Cantidad de mca[1] a removerse: 550 yardas[3] 13,000 pies[2] 11,000 pies lineales

F. Cantidad de mca a generarse: 550 yardas[3]

G. Descripción (identificación edificio, piso, etc.) de la estructura(s) donde se removerá el mca:
Los trabajos se reallizaran en la Antigua Planta Petroquimica

H. ¿El mca a removerse cumple con la definición de mca regulado según el 40 CRF[2] §61.141 y le aplica el 40 CRF §61.145(b)?
Si ☒ No ☐
Se le apercibe que la determinación incorrecta de esta clasificación del material y el no emitir la notificación aplicable, podrá conllevar la revocación del permiso y la imposición de las multas correspondientes.

I. **Certificación del Diseñador del Plan de Trabajo:** Certifico que el Plan de Trabajo que se incluye con esta solicitud de permiso fue preparado de acuerdo con las Guías para Plan de Trabajo para Remociones de Asbesto del Reglamento para el Control de la Contaminación Atmosférica (RCCA), las buenas prácticas y siguiendo las reglamentaciones federales y estatales aplicables del 40 CRF Parte 763 y Parte 61 Subparte M, del 29 CRF §§1910.1001, 1910.134, 1926.1101, de la Regla 422 del Reglamento para el Control de la Contaminación Atmosférica y la Regla 1005 de la Regla de Manejo de Desperdicios No-Peligrosos.

Firma del Diseñador de Proyecto (en original)

[1] mca: material con contenido de asbesto
[2] Código de Regulaciones Federales

000053
RX 6
CONFIDENTIAL - SUBJECT TO PROTECTIVE ORDER
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MANEJO DE MATERIALES CON CONTENIDO DE ASBESTO
PÁGINA 2 DE 7

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PARA USO OFICIAL

III. CERTIFICACIÓN DE INFORMACIÓN POR EL DUEÑO

Yo, Ramon S. Gonzalez (Nombre, Inicial, Apellidos) mayor de edad, Casado (Estado Civil), vecino de San Juan (Municipio)
y que ocupo la posición de Presidente en Tallaboa Industrial Park (Organización, Agencia, Compañía u otro).

Certifico que:

1. Mi nombre y demás circunstancias personales son las antes indicadas.
2. Toda la información vertida en esta solicitud y en los documentos que se acompañan es cierta, correcta y completa a mi mejor saber y entender.
3. Afirmo y reconozco las consecuencias de incluir y someter información falsa o incompleta en dichos documentos.
4. Autorizo a Eafael Echevarria (Nombre, Inicial, Apellidos), que ocupa la posición de Gestor en Homeca Recycling Center Co, Inc (Organización, Agencia, Compañía u otro) a radicar y llevar a cabo las gestiones necesarias, relacionadas con este permiso, en mi nombre y representación ante la Junta.

Y para que así conste, firmo la presente certificación en San Juan, (Municipio) de Puerto Rico, hoy 30/9/11 (Día / Mes / Año).

Firma del dueño (en original)

IV. IDENTIFICACIÓN DE SERVICIOS Y ENTIDADES RESPONSABLES: Debe incluir como mínimo un laboratorio, un transportador y un lugar de disposición.

Entidad	Nombre, Núm. Registro o permiso	Dirección Física	Dirección Postal
Diseñador de Proyecto	Adolfo Valdes Agrait ASB- 1110 - 0560 PD Vence: 7 / Oct / 2011 taagroup2@gmail.com Correo Electrónico	Urb. Los Almendros Calle Lady Di Teléfono: 787-504-0279	PO BOX 219 Meredita, PR 00715 Fax: 787-842-8542
Laboratorio	Altol Chemical SS 660 - 54 - 3434 carlos.ocasio@altolenterprises.com Correo Electrónico	Urb. Industrial Sabanetal Ed M-1380 Mercedita, PR 00715 Teléfono: 7877848-6050	PO BOX 359 Mercedita, PR 00715 Fax: 787-848-6299
	AES International, INC SS 660 - 49 - 5330 Correo Electrónico	611 Monserrate ST 2nd Floor Santurce, PR Teléfono: 787-722-0220	611 Monserrate ST 2nd Floor Santurce, PR Fax: 787-754-5788
Transportador	RE Environmental Group Núm. SR - 58 - 0574 Vence: 06 / mayo / 2014 reenvironmentalgroup@gmail.com Correo Electrónico	Sunset Park # 10 Arroyo, PR 00714 Teléfono: 787-864-8855	PO BOX 479 Arroyo, PR 00714 Fax: 787-864-8844
	Envirorecycling, Inc Núm. SR - 58 - 0457 Vence: 16 / dic / 2013 envirorecycling@yahoo.com Correo Electrónico	1508 Paseo Fagot Suite # 3 Urb. Jardines de Fagot Ponce, PR 00716 Teléfono: 787-284-0044	1508 Paseo Fagot Suite # 3 Urb. Jardines de Fagot Ponce, PR 00716 Fax: 787-848-1780
	Agregados Sanabria Núm. SR - 63 - 0663 Vence: 24 / mar / 2014 loydsan2010@gmail.com Correo Electrónico	Bo. Playa A-79 Salinas, PR 00751 Teléfono: 787-824-3687	PO BOx 479 Salinas, PR 00751 Fax: 787-824-3762
	Envirosolutions Recycling Núm. SR - 04 - 0633 Vence: 23 / julio / 2013 envirosolution@ymail.com Correo Electrónico	Ubr. Brisas de Palma Sola Calle 9 # 116 Aguas Buenas, PR 00703 Teléfono: 787-636-2158	HC03 Box 18131 Urb. Brisas de Palma Sola Aguas Buenas PR 00703 Fax: 787-732-4015

* Ver documento adjunto para laboratorio adicional.

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Lugar de Disposición	Allied Waste Núm. IDF - 58 - 0008 Vence: 22 /nov /2014 w.valenzuela@republicservice.com Correo Electrónico	Bo. Cotorra Ave. Baramaya Final Ponce, PR 00732 Teléfono: 787-841-775	PO BOX 7104 Ponce, PR 00732 Fax: 787-841-1048
	LM Waste Service Núm. IDF - 58 - 0032 Vence: Adjunto solicitud renovacion slopez@lmwasteservice.com Correo Electrónico	3199 Ave. Santiago los Caballeros Ponce, PR 00717 Teléfono: 787-651-0108	PO BOX 300 Mercedita, PR 00715-0300 Fax: 787-651-0109

V. DETERMINACIÓN ADMINISTRATIVA (PARA USO OFICIAL)

Este permiso podrá ser revocado (cancelado) antes de la fecha de vencimiento si se violan las condiciones del permiso o las disposiciones del Reglamento para el Control de la Contaminación Atmosférica, del Reglamento para el Manejo de Desperdicios Sólidos o del Reglamento para el Trámite de los Permisos Generales. La información y condiciones sometidas en su solicitud forman parte de esta autorización. La Junta se reserva el derecho de intervenir con la fuente en otros aspectos no cubiertos en esta autorización.

JUNTA DE CALIDAD AMBIENTAL APROBADO

Fecha de expedición: 30/09/2011 (Día / Mes / Año)

Fecha de expiración: 30/09/2012 (Día / Mes / Año)

Firma Representante JCA

SOLICITUD DE PERMISO GENERAL
MANEJO DE MATERIALES CON CONTENIDO DE ASBESTO
PÁGINA 4 DE 7

PG-ASB-52-1011-0112-RC
PARA USO OFICIAL

HOJA DE PAGO

Nombre del Proyecto: Desmantelamiento Antiguas Facilidades PR Olefins

Nombre del Solicitante: Homeca Recycling Center Co, Inc

I. Cuotas de Radicación

A. Radicación de Solicitud

1. **Solicitud nueva (cargo fijo $750.00)**.....$☐7☐5☐0.☐0☐0

2. **Modificación ($300.00)**.....$☐☐☐☐.☐☐
Las modificaciones incluyen cambios en transportista, lugar de disposición, laboratorio, cambios al plan de trabajo, aumento en cantidad de material removido y aumento en la duración del proyecto. Si existe aumento en la duración del proyecto deberá pagar en adición la cantidad correspondiente a la nueva duración del proyecto.

B. Cargos Fijos por Duración del proyecto de remoción de mca
La duración del proyecto empezará a contar a partir de la fecha de radicación de este permiso.

1. **De 1 a 30 días**.....$☐☐☐☐.☐☐
$350.00
2. **De 31 a 90 días**.....$☐☐☐☐.☐☐
$900.00
3. **De 91 a 365 días**.....$☐1☐5☐0☐.☐0☐0
$1,500.00
4. **De 366 a 730 días (2 años)**.....$☐☐☐☐.☐☐
$3,000.00
5. **De 731 a 1095 días (3 años)**.....$☐☐☐☐.☐☐
$4,500.00
6. **De 1096 a 1825 días (5 años)**.....$☐☐☐☐.☐☐
$6,000.00

TOTAL.....$☐2☐5☐0.☐0☐0

C. Viviendas Unifamiliares.....$☐☐☐☐.☐☐
Las viviendas unifamiliares sólo pagará un cargo por radicación de $100.00 y estarán exentas del cargo fijo por duración del proyecto y se definen como una unidad de vivienda o residencia privada donde reside una familia y el dueño de la residencia es una persona natural y no una agencia, empresa, organización o corporación pública o privada. Este permiso será emitido por un año.

II. Cuotas de Transferencia (cargo fijo $100.00).....$☐☐☐☐.☐☐

Nota: Los cargos por radicación y cargos fijos requeridos en esta solicitud no serán devueltos.

PARA USO OFICIAL

SECRETARÍA

Cotejado por: _____ Radicador Fecha: 30 / 09 / 2011 (Día / Mes / Año) Cantidad a pagar: $ 2,250.00

DIVISIÓN DE FINANZAS

Efectivo ☐ Giro ☐ Cheque Corporativo ☑ #_____ Recibo # ☐☐☐☐☐☐☐☐☐☐☐☐

_____ Firma Recaudador Oficial

___/___/___ (Día / Mes / Año)

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PARA USO OFICIAL

CONDICIONES PERMISO GENERAL PARA EL MANEJO DE MATERIALES CON CONTENIDO DE ASBESTO

1. Mantendrá copia de este permiso en el proyecto en todo momento.

2. Se autoriza específicamente la actividad descrita en el formulario de la solicitud de permiso general para el manejo de materiales con contenido de asbesto y la misma se llevará a cabo de acuerdo con el plan de trabajo presentado junto con el formulario de esta solicitud.

3. La actividad de manejo de materiales con contenido de asbesto no podrá exceder el periodo solicitado en el formulario de solicitud de permiso general. El dueño, agente o representante autorizado deberá presentar una modificación a este permiso si la actividad para el manejo de materiales con contenido de asbesto debe extenderse por más del tiempo solicitado. Si el permiso expira antes de someterse la modificación, deberá someter una nueva solicitud y un formulario nuevo de permiso general.

4. El dueño, agente o representante autorizado deberá notificar a la Junta de Calidad Ambiental (JCA) la fecha real de comienzo el mismo día o antes de comenzar las actividades de remoción de material con contenido de asbesto.

5. El dueño, agente o representante autorizado deberá cumplir con los requisitos aplicables de notificación contenidos en la Sección 61.145(b) del 40 CRF. Esta notificación, de ser aplicable, deberá enviarse en original y dos copias a *US EPA Caribbean Environmental Protection Division*, Centro Europa Building, Suite 417, 1492 Ponce de León Avenue, Stop 22, San Juan, PR 00907-4127. Si de acuerdo con la Sección 61.145(b) del 40 CRF, el dueño, agente o representante autorizado tuviese que someter a la EPA otra notificación adicional a la radicada con esta solicitud, deberá someter a la JCA una copia de dicha notificación adicional sometida a la EPA en la misma fecha en que notifique a la EPA. Se le apercibe que el incumplimiento con este requisito, de ser aplicable, podrá conllevar la revocación del permiso y la imposición de las multas correspondientes.

6. El dueño, agente o representante autorizado deberá notificar por escrito la fecha real de terminación del proyecto de remoción no más tarde de 5 días de terminado el proyecto. Se aceptarán notificaciones adelantadas por fax. Si la notificación es adelantada por fax, deberá enviar la notificación original por correo o radicarla en la Oficina de Radicaciones de Secretaría de la Junta de Calidad Ambiental.

7. Deberá cumplir con todas las especificaciones establecidas en el plan de trabajo entregado con este formulario de solicitud de permiso general. Para efectuar cualquier cambio de las especificaciones del plan de trabajo deberá someter una modificación a este permiso.

8. Las actividades de remoción, transporte y disposición del material con contenido de asbesto se realizarán de acuerdo con los requisitos y en cumplimiento con la Regla 422 del Reglamento para el Control de la Contaminación Atmosférica (RCCA) y de acuerdo con los requisitos aplicables del:

   a. Título 40 del CRF, Parte 61, Subparte M, Estándares Nacionales de Emisiones para asbesto.

   b. Título 40 del CRF, Parte 763, Subparte E, Materiales con Contenido de Asbesto en las Escuelas si la actividad de remoción, transporte y disposición del material que contiene asbesto es realizada en una escuela pública o privada.

9. De acuerdo con la Regla 420 del Reglamento para el Control de la Contaminación Atmosférica (RCCA) no causará ni permitirá la emisión a la atmósfera de materia que produzca un olor objetable o desagradable que se pueda percibir en predios que no sean aquellos que han sido designados para propósitos de la remoción de asbesto.

PERSONAL AUTORIZADO

10. Todo el personal (trabajador, supervisor, inspector, planificador, diseñador de proyecto y especialista en muestreo) que trabaje en la remoción de asbesto deberá estar autorizado y registrado en la Junta. Las personas autorizadas para trabajar en la remoción de asbesto son las incluidas junto con este formulario de solicitud de permiso general y cuyas tarjetas estén vigentes durante el período en que se lleve a cabo la actividad aplicable (p. ej. inspección, monitoreo, remoción, planificación, supervisión).

11. El dueño, agente o representante autorizado será responsable de que todo el personal tenga consigo y en un lugar visible su tarjeta de registro de la JCA mientras trabaje en la actividad de manejo de materiales con contenido de asbesto.

12. Deberá mantener un registro diario del nombre, número de registro de la tarjeta de la JCA y la firma de todo el personal que trabaje en el proyecto. Este deberá estar disponible en el proyecto para la inspección y la revisión de personal técnico de la JCA.

13. Deberá notificar por escrito, en un período no mayor de 5 días, el nombre de las personas que no fueron incluidas en el plan de trabajo y que comenzarán a trabajar en la remoción de asbesto luego de sometido este formulario de solicitud de permiso general. La notificación deberá incluir copia de las tarjetas de registro vigentes de la JCA para realizar estas labores.

14. No se permitirá personal en trabajos de remoción de asbesto cuya tarjeta de registro de la Junta esté vencida. Deberá recertificar a todo el personal que trabaje en la remoción de asbesto antes de la fecha de expiración de sus tarjetas y someterá evidencia de la recertificación (copia de las nuevas tarjetas) a la JCA.

DURANTE LA OPERACIÓN

15. Deberá aislar el área de trabajo de manera que evite el acceso de personas ajenas a dichas áreas.

16. Deberá instalar por lo menos 2 rótulos en lugares visibles, accesibles y legibles a una distancia no mayor de 50 pies y no menor de 20 pies del área de trabajo. El área de trabajo tiene que estar rotulada de la siguiente manera:

PELIGRO NO ENTRE, removiéndose material que contiene asbesto.
Inhalar fibras de asbesto puede causar daños serios a la salud.
Evite levantar polvo.

17. Durante las tareas de remoción de material con contenido de asbesto, deberá estar presente un supervisor certificado que evidencie estar en el registro de personas certificadas de la JCA en trabajos de asbesto.

18. Antes y durante la operación deberá humedecer la superficie del material para que éste no gane acceso al aire o al terreno.

19. El material debe ser embolsado, envuelto o mantenerse mojado hasta que sea transferido a un recipiente cerrado antes del final de la jornada de trabajo.

20. Deberá utilizar ventilación local equipada con Filtros para Partículas Alta Eficiencia (HEPA, en inglés) cuando las labores de remoción lo requieran.

21. Durante el proceso de remoción, las partículas pequeñas del material deberán ser colectadas mediante el uso de aspiradoras equipadas con filtros HEPA.

PG-ASB-____-_____-_____
PARA USO OFICIAL

CONDICIONES PERMISO GENERAL PARA EL MANEJO DE MATERIALES CON CONTENIDO DE ASBESTO (CONTINUACIÓN)

22. Deberá utilizar dos capas de polietileno de 4 milésimas de espesor en las paredes y dos capas de 6 milésimas de espesor en el suelo.

23. En caso de trabajos de remoción de estucado de techo utilizando agua a presión deberá cumplir con lo siguiente:

    a) el sistema que se utilice para remover el estucado deberá instalarse, conservarse y operarse de acuerdo con las condiciones especificadas por el fabricante;
    b) deberá asegurarse de cubrir las paredes de tal manera que los plásticos no se desprendan durante la remoción;
    c) colocará diques en las puertas para asegurarse que el agua no se filtre hacia el exterior;
    d) deberá sellar adecuadamente los drenajes que se encuentren dentro del área de trabajo;
    e) el agua utilizada en la remoción deberá ser colectada mediante equipos de succión equipados con filtros HEPA;
    f) el agua colectada deberá ser filtrada en un sistema de filtros HEPA. Los filtros estarán colocados en serie de tal forma que el tamaño del poro disminuya progresivamente (100, 50 y 5 micrones).
    g) evitará usar agua en exceso la cual pudiera ganar acceso al terreno o a los cuerpos de agua a través de los drenajes o que pudiera filtrarse fuera del encierre.
    h) el agua una vez filtrada se dispondrá a través del sistema de alcantarillado sanitario.

24. En caso de trabajos de remoción de materiales de impermeabilización de techo deberá cumplir con lo siguiente:

    a) mantendrá el material húmedo en todo momento;
    b) evitará barrer en seco;
    c) los equipos de remoción estarán equipados con aspersores de agua o equipos de succión equipados con filtros HEPA; y
    d) evitará usar agua enmendada en exceso la cual pudiera ganar acceso al terreno o a los cuerpos de agua a través de los drenajes del agua de lluvia, respiraderos o ventiladores.

25. En caso de trabajos de remoción de pegamento de losas de vinilo mediante el uso de solventes deberá cumplir con lo siguiente:

    a) mantendrá copia de la hoja de datos de seguridad del material (MSDS, en inglés) del solvente a utilizarse en el lugar de trabajo en todo momento;
    b) deberá cumplir con todas las especificaciones establecidas en la hoja de datos de seguridad del material al manejar el mismo;
    c) evitará utilizar el solvente en lugares donde se registran altas temperaturas;
    d) deberá aislar el área de trabajo e instalar rótulos de precaución;
    e) deberá sellar el área de trabajo con plástico de 6 milésimas;
    f) mantendrá ventilación mecánica con filtros HEPA; y
    g) evitará que el solvente entre a los drenajes del edificio los cuales a su vez pudieran llegar al alcantarillado pluvial o sanitario.

26. Durante los trabajos de remoción de losas de vinilo mediante aplicación de calor deberá cumplir con lo siguiente:

    a) las losas de vinilo deberán estar en buenas condiciones;
    b) deberá examinar previamente las losas de vinilo para determinar si las mismas pudieran convertirse en desmenuzables durante la remoción;
    c) no podrá remover el pegamento de la losa mediante la técnica de aplicación de calor;
    d) evitará usar calor en exceso lo cual pudiera ocasionar incendios;
    e) deberá aislar el área de trabajo e instalar rótulos de precaución;
    f) deberá sellar el área de trabajo con plástico de 6 milésimas;
    g) mantendrá ventilación mecánica con filtros HEPA; y
    h) los trabajadores deberán utilizar respiradores equipados con filtros para vapores orgánicos.

27. Deberá preparar un área de descontaminación (decon) conectada junto al área regulada que incluya, sin limitarse a, un cuarto limpio, baño y un cuarto sucio.

28. En los trabajos Categoría I para la remoción de aislamiento de tuberías, las bolsas de guantes se pueden usar solamente para remover no más de 3 pies lineales al mismo tiempo. Para cantidades mayores de 3 pies lineales será necesario la construcción de un mini encierre o encierre completo. Una bolsa de plástico con guantes internos que provee un área encerrada para manejar las herramientas y el material con contenido de asbesto.

29. Las bolsas de guantes no deben utilizarse en superficies con una temperatura mayor de 150ºF (65ºC).

30. Al usar bolsas de guantes seguirá las reglas existentes en trabajos mayores para evitar que las fibras de asbesto lleguen al aire, esto incluye, pero sin limitarse a:

    a) mantener húmedo el asbesto.
    b) aislar el área de trabajo e instalar rótulos de precaución.
    c) filtrar el aire utilizando filtros HEPA.
    d) mantener presión negativa de aire dentro de la bolsa usando aspirador con filtro HEPA.
    e) las bolsas de guantes deberán tener rótulos de precaución de acuerdo con la reglamentación vigente.
    f) realizar muestreos de aire antes durante y después de las actividades de remoción y deberá realizar muestreo de aire personal durante dichas actividades.

31. Durante trabajos de remoción de escombros que se encuentren sobre el terreno, deberá colectar y disponer todo el terreno contaminado con partículas del material con asbesto las cuales no puedan ser colectadas manualmente o con aspiradoras HEPA.

PROTECCIÓN PERSONAL

32. Deberá cumplir con las medidas de seguridad y equipo de protección personal especificados en su plan de remoción de asbesto según la reglamentación que especifica la Oficina de Seguridad y Salud en el Trabajo (OSHO) del Departamento del Trabajo y Recursos Humanos.

MONITOREO GENERAL (MUESTRAS DE AIRE)

33. El análisis de las muestras de aire tomadas durante los trabajos de remoción estará a cargo de el/los laboratorio/s identificado/s en este formulario de solicitud de permiso general. El laboratorio contratado deberá estar acreditado por la *American Industrial Hygiene Association* (AIHA, en inglés). De haber algún cambio de laboratorio, deberá someter antes una modificación a este permiso.

34. Deberá realizar los muestreos de aire antes, durante y al finalizar la actividad de remoción.

35. Tomará un mínimo de seis muestras de aire al día.

36. Deberá realizarle muestras personales diarias al 25% de los trabajadores que se encuentren laborando en la actividad de remoción. Estas muestras deberán incluir el nombre y el número de registro otorgado por la Junta de cada persona que realice las muestras.

37. Las muestras de aire personales, de área y finales serán analizadas mediante el Método NIOSH 7400 – Microscopía de Contraste de Fase (PCM, en inglés).

38. Las muestras de aire de área deberán incluir la información por el nombre del edificio, las áreas específicas de los edificios y las estructuras de la planta donde se realicen. Este deberá realizarlo un especialista en muestreo, certificado y autorizado por la Junta. Deberán incluir el nombre y el número de registro otorgado por la Junta de cada persona que realice las muestras.

PG-ASB-____-_____-_____
PARA USO OFICIAL

CONDICIONES PERMISO GENERAL PARA EL MANEJO DE MATERIALES CON CONTENIDO DE ASBESTO (CONTINUACIÓN)

39. Deberá limpiar el cuarto con paños húmedos y esperar veinticuatro (24) horas. Limpiar el cuarto de nuevo con paños húmedos y aspirado de filtro HEPA. El cuarto se considera limpio cuando solamente hay 0.005 fibras por centímetro cúbico (f/cc).

40. Si la remoción de material con contenido de asbesto se realiza en una escuela pública o privada, las muestras de aire tomadas luego de la limpieza final (*Clearance*) serán analizadas mediante el método de Microscopía de Transmisión de Electrones (TEM, en inglés). El análisis se hará de acuerdo con los requisitos aplicables en el 40 CRF, Parte 763, Subparte E.

41. Si durante los trabajos de remoción surge la necesidad de tomar muestras de otros materiales sospechosos, los mismos deberán ser muestreados por un inspector certificado y registrado en la Junta. Las muestras colectadas deberán ser analizadas por un laboratorio reconocido por el *National Voluntary Laboratory Accreditation Program* (NVLAP, en inglés) y que cumpla satisfactoriamente con los criterios del *National Institute of Standards and Technology* (NIST, en inglés). La acreditación del laboratorio deberá incluir el análisis de las muestras mediante Microscopía de Luz Polarizada (PLM, en inglés).

TRANSPORTACIÓN Y DISPOSICIÓN DEL MCA

42. Las porciones pequeñas del material de desecho así como, todo material que se usó durante la limpieza o utilizados en el área de trabajo, deberán empacarse en bolsas dobles de 6 milésimas de espesor u otro tipo de envase impermeable apropiado que evite la emisión de fibras o partículas fuera de los envases y dispuestos según aprobado por la Junta.

43. En los envases deberán utilizar etiquetas que establezcan:

PELIGRO
CONTIENE FIBRAS DE ASBESTO
EVITE CREAR POLVO
PELIGRO DE CANCER Y ENFERMEDADES DE LOS PULMONES

44. La transportación del material contaminado estará a cargo de la compañía identificada en este formulario de solicitud de permiso general. De surgir la necesidad de utilizar otro transportista, deberá antes modificar este permiso e incluir el número de Permiso para Servicio de Recolección y Transportación de Desperdicios Sólidos No Peligrosos de la JCA y la fecha de expiración del mismo. Además incluirá la carta original del nuevo transportista.

45. La disposición final del material contaminado se hará en el sistema de relleno sanitario identificado en este formulario de solicitud de permiso general. De surgir la necesidad de utilizar otro sistema de relleno sanitario, deberá antes modificar este permiso e incluir el número de Permiso de Operación para un Sistema de Relleno Sanitario de Desperdicios Sólidos No Peligrosos de la JCA y la fecha de expiración del mismo. Además incluirá la carta original del lugar de disposición.

46. El lugar de disposición se rotulará de la siguiente manera:

PELIGRO
ÁREA DE DISPOSICIÓN DE ASBESTO

INFORMES

47. Deberá someter un informe mensual antes del día 15 del próximo mes que incluya las tareas específicas de los edificios y las estructuras de la planta donde se realizan las actividades de remoción junto con la cantidad de material con contenido de asbesto removidas. Estos informes no sustituyen el informe final de cierre.

48. Deberá someter un informe final de cierre en forma clara y legible dentro de los próximos 60 días de haber finalizado la remoción de material con contenido de asbesto. El mismo deberá incluir:

    a) hojas de cadena de custodia
    b) manifiestos de la disposición del material (claros y legibles)
    c) resumen de las tareas diarias

    De haber alguna diferencia entre la cantidad de asbesto autorizada para la remoción y la dispuesta, deberá someter una carta explicando la razón de la diferencia.

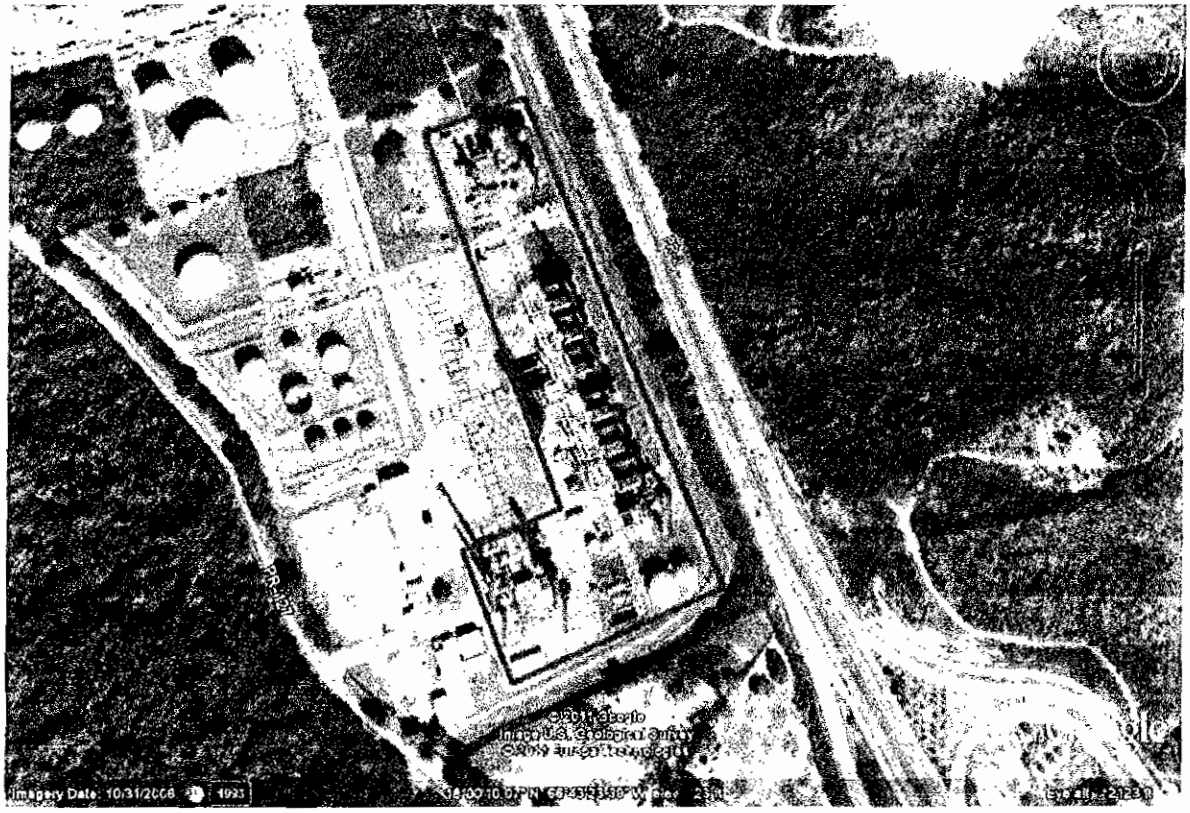
49. El incumplimiento con cualquiera de los requisitos de este permiso constituirá una violación y el dueño, agente o representante autorizado del proyecto estará sujeto a una orden administrativa a una penalidad administrativa o ambas.

50. Este permiso o sus modificaciones no podrán sobrepasar el periodo de 5 años de vigencia. Si el proyecto continua por más de los 5 años solicitados, deberá solicitar un permiso nuevo, o sea presentar una solicitud inicial.

51. Deberá someter a la Junta cualquier información adicional que ésta requiera.

17. Documento explicativo de la infraestructura existente y propuesta, incluyendo detalles de su utilización

Actualmente las facilidades de PR Olefins (área marcada en rojo en la foto 1) están en total abandono e inoperante desde 1987, esto debido a que sufrió el efecto de la crisis que embargo la industria del petróleo en la época del 1970 y 1980. Todas las líneas de la facilidad están libres de productos químicos.



Por la razón de que esta facilidad es un estorbo público que atenta contra la seguridad y el ambiente se espera desmantelar esta estructura con el fin de limpiar el área y crear un ambiente más seguro para distintos usos posteriores ya que al momento la empresa TIP no ha determinado que se llevara a cabo en estos predios.

18. Especificaciones técnicas de generadores de electricidad y cualesquiera otras fuentes de emisión atmosférica, si incluye cualquiera fuente de emisión atmosférica

La acción propuesta no requiere el uso de generadores de electricidad ni otras fuentes de emisión atmosféricas.

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19. Determinación de ADS aprobando el manejo y disposición de desperdicios sólidos no peligrosos, si se proponen instalaciones de esta índole

AUTORIDAD DE
DESPERDICIOS SÓLIDOS

VERDE

Lcdo. Eli E. Díaz Atienza
Director Ejecutivo

4 de octubre de 2011

Sr. Carlos Sánchez Delgado
P. O. Box 231
Mercedita, Puerto Rico 00715-0231

Estimado señor Sánchez Delgado:

Re: Certificación de Conformidad - Homeca Recycling
Desmantelamiento de las antiguas instalaciones de PR Olefins
Guayanilla, Puerto Rico

En la Autoridad de Desperdicios Sólidos (Autoridad, ADS), se recibió una carta junto a otros documentos relacionados con el caso de referencia. Esto, con el propósito de solicitar un endoso, según requerido por la Oficina de Gerencia de Permisos. Homeca Recycling, realiza el desmantelamiento y disposición de las estructuras de metal que componen las antiguas instalaciones de PR Olefins. Dichas instalaciones ubican en el Tallaboa Industrial Park, Carretera PR-127, Km 13.2, Sector El Pueblito, Barrio Tallaboa Poniente del Municipio de Peñuelas.

Luego de evaluar la solicitud y la información disponible al momento, la Autoridad determinó que las actividades realizadas por Homeca Recycling, son cónsonas y no tienen aspectos contrarios a la política pública de esta Autoridad. Por consiguiente y a tenor con lo dispuesto en el "Reglamento para la Reducción, Reutilización y el Reciclaje de los Desperdicios Sólidos en Puerto Rico", según enmendado (Reglamento Núm. 7940 de 2 de noviembre de 2010), promulgado al amparo de los poderes conferidos por la Ley Núm. 70 de 12 de septiembre de 1992, **se emite esta Certificación de Conformidad**. La misma está condicionada, exclusivamente, a la ubicación, acopio, manejo y disposición de los metales producto del desmantelamiento de las estructuras, según descritas en el primer párrafo de ésta carta.

Es importante indicar, que una vez se obtenga la certificación de cumplimiento con el Artículo 4B (3) de la Ley Sobre Política Pública Ambiental, Ley Núm 416 de 22 de septiembre de 2004, según enmendada, se solicitará el Permiso para Operar una Instalación de Desperdicios Sólidos No Peligrosos (Permiso DS-2). Para esto, la Junta de Calidad Ambiental (JCA) requiere un endoso de la ADS. Por lo que se radicará una nueva solicitud de endoso, junto a una copia del cumplimiento ambiental. Es importante indicar, que la ADS realizará una inspección al lugar donde se llevan a cabo las actividades, previo a la otorgación del endoso final.

Para aclarar particularidades comuníquese con María V. Oquendo Padua, Especialista Ambiental I, al (787) 765-7575, extensión 4676.

Cordialmente,

Brunilda Isaac Llanos
Directora
Planificación, Operaciones e Ingeniería

BILI/MVOP

20. Descripción del material a dragarse, si la acción incluye dragado

La acción propuesta no incluye material a dragarse.

21. Mapa con la ruta de acarreo del excedente de tierra al lugar de disposición, en caso de generar excedente en el movimiento de tierra Certificación del especialista

La acción propuesta no requiere movimiento de tierra.

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22. Resultados de las pruebas de percolación y pruebas de nivel freático, en caso de proponerse un sistema de inyección subterránea

La acción propuesta no requiere un sistema de inyección subterránea.

23. Carta sobre disponibilidad de un sistema de tratamiento de aguas usadas, en caso de que la disposición final de las mismas será a través de un sistema existente

Durante la fase de desmantelamiento de las estructuras solamente se generaran aguas sanitarias por parte de los trabajadores, las cuales serán almacenadas mediante el uso de inodoros portátiles (portalets) los mismos servicios serán por la compañía AJD Transport la cual se encargara de la disposición de las de aguas usadas.

24. Permiso de la Policía de Puerto Rico y DRNA para el uso de explosivos, en caso de que se contemple el uso de explosivos

La acción propuesta no requiere el uso de explosivos ya que el proceso de desmantelamiento es llevado a cabo utilizando gruas, digger, eslingas, excavadoras con aditivo de tijera hidráulica para cortar cualquier metal que este en gran tamaño.

25. Plan de detonación critica, en caso de que se contemple el uso de explosivos

La acción propuesta no lo requiere.

26. Plano o croquis de las estructuras y el área a demoler, en caso de demolición

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RX 6
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RECOMENDACION AMBIENTAL

DESMANTELAMIENTO DE LA ANTIGUAS FACILIDADES DE PUERTO RICO OLEFINS

Tallaboa Industrial Park
Carr. 127 km 19.1
Sector El Pueblito
Bo. Tallaboa Poniente,
Peñuelas
Puerto Rico 00624

PROPIEDAD DE
TALLABOA INDUSTRIAL PARK

HOMECA RECYCLING CENTER CO. INC.
PO Box 231, Mercedita
Puerto Rico 00715

LEYENDA Y NOTAS:

ESTRUCTURA @ DESMANTELAR

LINEAS QUE DEMARCAN EL AREA APROXIMADA A SER IMPACTADA

NOTA: ÁREA @ DESMANTELAR = 95,441.3537 PC = 8,866.7919 MC

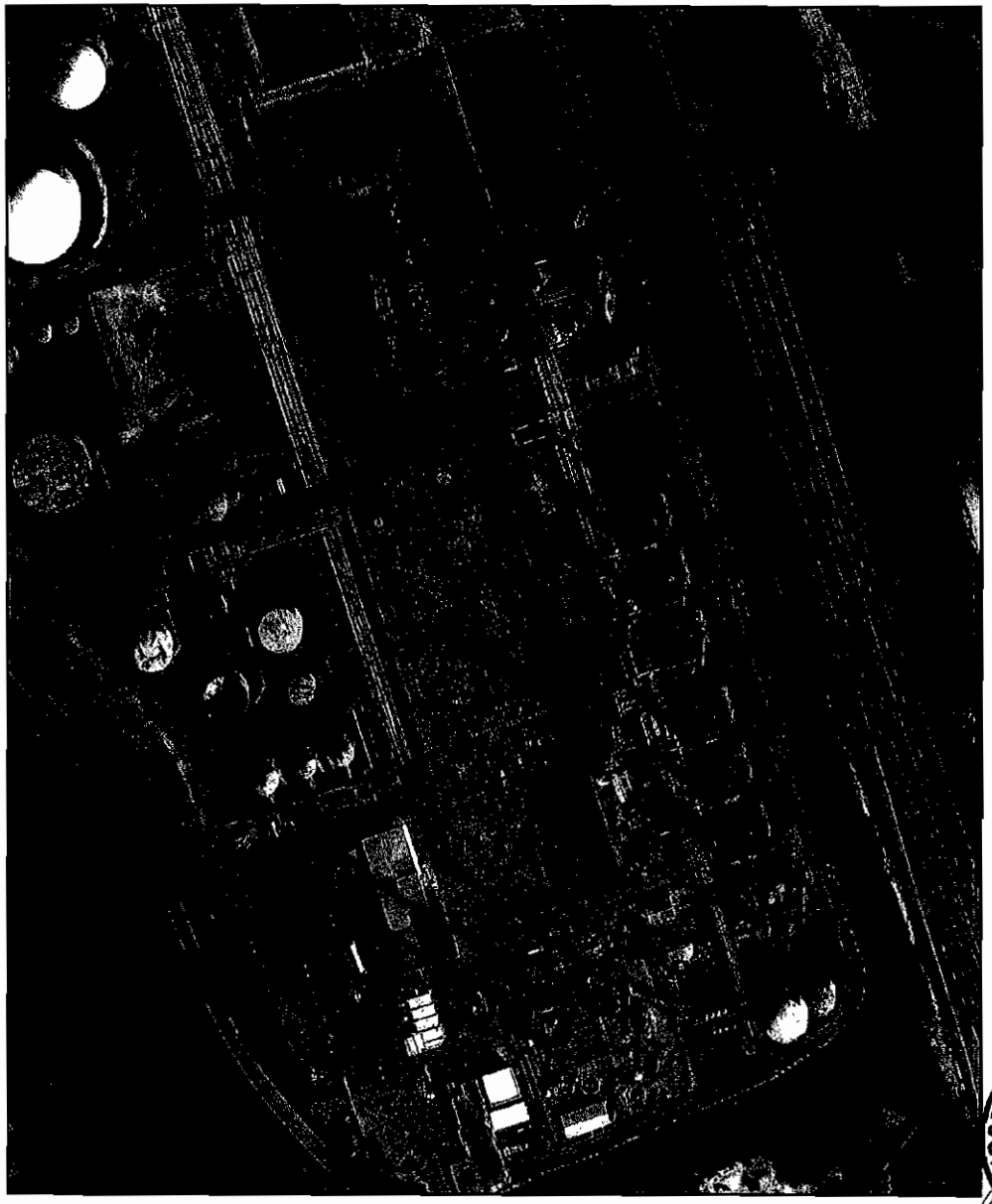
PARCEL NAME: OWNER

SURVEY DATA

LINE	BEARING	DISTANCE	POINT	COORDINATES NORTH (Y)	COORDINATES EAST (X)	DESCRIPTION
1-2	N 75°51'41" W	28.63'	1	218,910.3699	169,155.6154	TO BE DEMOLISHED
2-3	S 18°40'07" E	93.74'	2	218,882.2696	169,213.5233	TO BE DEMOLISHED
3-4	N 64°20'20" E	63.30'	3	218,854.2696	169,845.6343	TO BE DEMOLISHED
4-5	N 28°39'16" E	38.12'54	4	218,906.8010	169,912.8148	TO BE DEMOLISHED
5-6	N 12°59'19" E	12.98'5	5	218,960.3499	169,933.3858	TO BE DEMOLISHED
6-1	N 65°05'43" W	18.15'4	6	218,972.7387	169,967.3748	TO BE DEMOLISHED
7-8	N 78°54'48" W	410.2694	7	218,894.9460	169,967.1337	TO BE DEMOLISHED
8-1	S 72°48'37" W	70.3488	8	218,910.3699	169,155.6154	TO BE DEMOLISHED
9-1	S 18°51'17" E	359.1232	9	218,910.3699	169,155.6154	TO BE DEMOLISHED

AREA = 41064.1079 SQ.MTS. 10.4478 CUERDAS

Yo, José Luis Rivera Figueroa, numero de licencia 17816 certifico que soy el profesional que diseño estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido sin conocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPE y otras autoridades competentes incluyendo, pero sin limitarse, a la terminación de la participación en los procedimientos de certificación profesional en la OGPE.





MAPA TOPOGRAFICO
X=169,155.1644 Y=218,911.7394



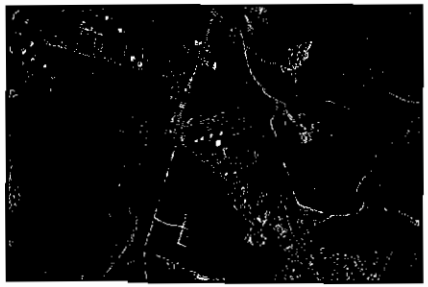


FOTO AERIEA

DESCRIPCION:
MAPA TOPOGRÁFICO, MAPA DE FEMA, PLANO DE SITUACION

JOSE L. RIVERA FIGUEROA
INGENIERO LICENCIADO
PUERTO RICO

	S-1	1 DE 1

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27. Certificación de que la estructura no contiene asbestos y/o pinturas a base de plomo, en caso de demolición

Tallaboa Industrial Park (TIP), dueño de las facilidades donde ubica la antigua planta petroquímica PR Olefins, está utilizando los servicios de nuestra empresa para mitigar la aislación con contenido de asbestos en las tuberías de la planta. Para estos trabajos se obtuvo un permiso general para mitigación de material con contenido de asbesto ante la JCA (Anejo 1). En adición, a los trabajos de mitigación, TIP, nos solicitó el desmantelar las estructuras compuestas por metales ferrosos y no-ferrosos, tales como: acero, acero inoxidable, bronce, cobre, aluminio, etc.

Algunas de las estructura de acero contiene un cierto grado de plomo (Ver Anejo 2) sin embargo la empresa que nos recibirá o comprara el materia para ser reciclado recibe el material con el contenido de plomo.

ANEJO 1

GOBIERNO DE PUERTO RICO
OFICINA DEL GOBERNADOR
JUNTA DE CALIDAD AMBIENTAL

PUERTO RICO VERDE

Área de Calidad de Aire

SOLICITUD DE PERMISO GENERAL
MANEJO DE MATERIALES CON CONTENIDO DE ASBESTO

HOJA DE COTEJO

PG-ASB 57-0911-0112 RC
PARA USO OFICIAL

☑ SOLICITUD INICIAL

	Documentos Solicitados	Sometido Solicitante	Recibido Uso oficial
1.	Un original y una copia del Formulario de la Solicitud de Permiso General Manejo de Materiales con Contenido de Asbesto completo en todas sus partes	☑	☑
2.	Plan de Trabajo de acuerdo con las Guías para Remociones de Asbesto del Reglamento para el Control de la Contaminación Atmosférica	☑	☑
3.	Plano o croquis de las estructuras o edificios donde se ilustra distribuida el área de trabajo. Incluye cuarto limpio, baño, cuarto sucio, sistema de aire negativo, salidas de aire limpio	☑	☑
4.	Plano de localización claro y legible	☑	☑
5.	Carta original de transportista(s)	☑	☑
6.	Carta original del lugar de disposición	☑	☑
7.	Copia de la tarjeta de registro vigente del Diseñador del Proyecto	☑	☑
8.	Copia de las tarjetas de registro vigentes de Trabajadores	☑	☑
9.	Copia de las tarjetas de registro vigentes de Supervisores	☑	☑
10.	Copia de las tarjetas de registro de los Especialistas en Muestreo	☑	☑
11.	Copia *AIHA Asbestos Analyst Registry (AAT Performance Results)* para los Especialistas en Muestreo presentados en la solicitud.	☑	☑
12.	Copia de la notificación a EPA ponchada con por lo menos 10 días laborables antes de la radicación si marcó Si en el inciso II (H) de esta solicitud	☑	☑
13.	Pago correcto según requerido por el formulario de permiso general	☑	☑

☐ MODIFICACIONES

	Documentos Solicitados	Sometido Solicitante	Recibido Uso oficial
1.	Un original y una copia del Formulario de la Solicitud de Permiso General Manejo de Materiales con Contenido de Asbesto completo en todas sus partes	☐	☐
2.	Copia del permiso que desea modificar	☐	☐
3.	Carta explicativa de la modificación solicitada (por ej. si es un aumento en yardas cúbicas, explicación de la diferencia)	☐	☐
4.	Para cambio de laboratorio, copia de las tarjetas de registro de los Especialistas en Muestreo	☐	☐
5.	Para cambio de transportista, carta original del nuevo transportista(s)	☐	☐
6.	Para cambio de lugar de disposición, carta original del lugar de disposición	☐	☐
7.	Pago correcto según requerido por el formulario de permiso general	☐	☐

2011 SEP 30 PM 2:20 RADICADO JUNTA CALIDAD AIRE

☐ TRANSFERENCIAS

	Documentos Solicitados	Sometido Solicitante	Recibido Uso oficial
1.	Un original y una copia del Formulario de la Solicitud de Permiso General Manejo de Materiales con Contenido de Asbesto completo en todas sus partes	☐	☐
2.	Copia del permiso que desea transferir	☐	☐
3.	Acuerdo firmado por las partes que incluya la fecha de transferencia	☐	☐
4.	Pago correcto según requerido por el formulario de permiso general	☐	☐

PARA USO OFICIAL

Recibido por: _____ Fecha: 30 / 09 / 2011
Representante autorizado JCA (Día / Mes / Año)

Dirección Física: Edificio de Agencias Ambientales Cruz A. Matos, Urbanización San José Industrial Park
1375 Avenida Ponce de León, San Juan, PR 00926-2604 • Teléfono 787-767-8181 • Fax 787-758-5906
Dirección Postal: Apartado 11488, San Juan, PR 00910

GOBIERNO DE PUERTO RICO
OFICINA DEL GOBERNADOR
JUNTA DE CALIDAD AMBIENTAL

Área de Calidad de Aire

PUERTO RICO VERDE

SOLICITUD DE PERMISO GENERAL
MANEJO DE MATERIALES CON CONTENIDO DE ASBESTO

☒ SOLICITUD NUEVA
☐ MODIFICACIÓN
☐ TRANSFERENCIA

PG-ASB-52-0911-0112 RC
PARA USO OFICIAL

I. IDENTIFICACIÓN DE PERSONAS Y ENTIDADES RESPONSABLES

Entidad	Nombre y Seg. Soc. Patronal	Dirección Física	Dirección Postal
Dueño	Tallaboa Industrial Park SS 660 - 72 - 0694 roberto@procaribe.com Correo Electrónico	Carr 385 Km. 5.4 Bo. Tallaboa Poniente Sector Pueblito Peñuelas, PR 00624 Teléfono: 787-836-2000	Carr 385 Km 5.4 Procaribe Firm Delivery Bo. Tallaboa Poniente Sector Pueblito Peñuelas, PR 00624 Fax: 7870836-2026
Agente o Rep. Autorizado	Homeca Recycling Center SS 660 - 59 - 6814 luz@homecainc.com Correo Electrónico	Calle Salmon # 1 Puerto de Ponce Bo. La Playa Ponce, PR Teléfono: 787-689-6150	PO Box 231 Mercedita, PR 00715 Fax: 800-491-1218

II. INFORMACION DEL PROYECTO

A. Nombre del Proyecto: Desmantelamiento Antiua Planta Olefins

B. Localización Física: carretera 385 Km. 5.4 carretera 127 km. 19.1
(Calle o Carretera) (Núm. o Km)
Tallaboa Poniente Sector El Pueblito (Barrio) Peñuelas, PR 00624 (Pueblo)

C. Localización del Proyecto en Coordenadas Lambert (Stateplane NAD83): X: 42.8218 . 444 Y: 37.1780 . 722

D. Fecha estimada: Inicio de obras: 27 /09 /10 (Día / Mes / Año) Terminación de las obras: 26 /09 /2012 (Día / Mes / Año)

E. Cantidad de mca[1] a removerse: 550 yardas[3] 13,000 pies[2] 11,000 pies lineales

F. Cantidad de mca a generarse: 550 yardas[3]

G. Descripción (identificación edificio, piso, etc.) de la estructura(s) donde se removerá el mca:
Los trabajos se reallizaran en la Antigua Planta Petroquimica

H. ¿El mca a removerse cumple con la definición de mca regulado según el 40 CRF[2] §61.141 y le aplica el 40 CRF §61.145(b)?
Sí ☒ No ☐
Se le apercibe que la determinación incorrecta de esta clasificación del material y el no emitir la notificación aplicable, podrá conllevar la revocación del permiso y la imposición de las multas correspondientes.

I. **Certificación del Diseñador del Plan de Trabajo:** Certifico que el Plan de Trabajo que se incluye con esta solicitud de permiso fue preparado de acuerdo con las Guías para Plan de Trabajo para Remociones de Asbesto del Reglamento para el Control de la Contaminación Atmosférica (RCCA), las buenas prácticas y siguiendo las reglamentaciones federales y estatales aplicables del 40 CRF Parte 763 y Parte 61 Subparte M, del 29 CRF §§1910.1001, 1910.134, 1926.1101, de la Regla 422 del Reglamento para el Control de la Contaminación Atmosférica y la Regla 1005 de la Regla de Manejo de Desperdicios No-Peligrosos.

Firma del Diseñador de Proyecto (en original)

[1] mca: material con contenido de asbesto
[2] Código de Regulaciones Federales

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Dirección Postal: Apartado 11488, San Juan, PR 00910-

SOLICITUD DE PERMISO GENERAL
MANEJO DE MATERIALES CON CONTENIDO DE ASBESTO
PÁGINA 2 DE 7

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III. CERTIFICACIÓN DE INFORMACIÓN POR EL DUEÑO

Yo, Ramon S. Gonzalez (Nombre, Inicial, Apellidos) mayor de edad, Casado (Estado Civil), vecino de San Juan (Municipio) y que ocupo la posición de Presidente en Tallaboa Industrial Park (Organización, Agencia, Compañía u otro).

Certifico que:

1. Mi nombre y demás circunstancias personales son las antes indicadas.
2. Toda la información vertida en esta solicitud y en los documentos que se acompañan es cierta, correcta y completa a mi mejor saber y entender.
3. Afirmo y reconozco las consecuencias de incluir y someter información falsa o incompleta en dichos documentos.
4. Autorizo a Eafael Echevarria (Nombre, Inicial, Apellidos), que ocupa la posición de Gestor en Homeca Recycling Center Co, Inc (Organización, Agencia, Compañía u otro) a radicar y llevar a cabo las gestiones necesarias, relacionadas con este permiso, en mi nombre y representación ante la Junta.

Y para que así conste, firmo la presente certificación en San Juan, (Municipio) de Puerto Rico, hoy 30/9/11 (Día / Mes / Año).

Firma del dueño (en original)

IV. IDENTIFICACIÓN DE SERVICIOS Y ENTIDADES RESPONSABLES: Debe incluir como mínimo un laboratorio, un transportador y un lugar de disposición.

Entidad	Nombre, Núm. Registro o permiso	Dirección Física	Dirección Postal
Diseñador de Proyecto	Adolfo Valdes Agrait ASB- 1110 - 0560 PD Vence: 7 / Oct /2011 taagroup2@gmail.com Correo Electrónico	Urb. Los Almendros Calle Lady Di Teléfono: 787-504-0279	PO BOX 219 Meredita, PR 00715 Fax: 787-842-8542
Laboratorio	Altol Chemical SS 660 - 54 - 3434 carlos.ocasio@altolenterprises.com Correo Electrónico	Urb. Industrial Sabanetal Ed M-1380 Mercedita, PR 00715 Teléfono: 7877848.6050	PO BOX 359 Mercedita, PR 00715 Fax: 787-848-6299
	AES International, INC SS 660 - 49 - 5330 Correo Electrónico	611 Monserrate ST 2nd Floor Santurce, PR Teléfono: 787-722-0220	611 Monserrate ST 2nd Floor Santurce, PR Fax: 787-754-5788
Transportador	RE Environmental Group Núm. SR - 58 - 0574 Vence: 06 /mayo /2014 reenvironmentalgroup@gmail.com Correo Electrónico	Sunset Park # 10 Arroyo, PR 00714 Teléfono: 787-864-8855	PO BOX 479 Arroyo, PR 00714 Fax: 787-864-8844
	Enviorecycling, Inc Núm. SR - 58 -0457 Vence: 16 / dic /2013 enviorecycling@yahoo.com Correo Electrónico	1508 Paseo Fagot Suite # 3 Urb. Jardines de Fagot Ponce, PR 00716 Teléfono: 787-284-0044	1508 Paseo Fagot Suite # 3 Urb. Jardines de Fagot Ponce, PR 00716 Fax: 787-848-1780
	Agregados Sanabria Núm. SR - 63 - 0663 Vence: 24 / mar / 2014 loydsan2010@gmail.com Correo Electrónico	Bo. Playa A-79 Salinas, PR 00751 Teléfono: 787-824-3687	PO BOx 479 Salinas, PR 00751 Fax: 787-824-3762
	Envirosolutions Recycling Núm. SR - 04 - 0633 Vence: 23 / julio /2013 envirosolution@ymail.com Correo Electrónico	Ubr. Brisas de Palma Sola Calle 9 # I16 Aguas Buenas, PR 00703 Teléfono: 787-636-2158	HC03 Box 16131 Urb. Brisas de Palma Sola Aguas Buenas PR 00703 Fax: 787-732-4015

* ver documento adjunto para laboratorio adicional.

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Lugar de Disposición	Allied Waste Núm. IDF - 58 - 0008 Vence: 22 /nov /2014 w.valenzuela@republicservice.com Correo Electrónico	Bo. Cotorra Ave. Baramaya Final Ponce, PR 00732 Teléfono: 787-841-775	PO BOX 7104 Ponce, PR 00732 Fax: 787-841-1048
	LM Waste Service Núm. IDF - 58 - 0032 Vence: Adjunto solicitud renovacion slopez@lmwasteservice.com Correo Electrónico	3199 Ave. Santiago los Caballeros Ponce, PR 00717 Teléfono: 787-651-0108	PO BOX 300 Mercedita, PR 00715-0300 Fax: 787-651-0109

V. DETERMINACIÓN ADMINISTRATIVA (PARA USO OFICIAL)

Este permiso podrá ser revocado (cancelado) antes de la fecha de vencimiento si se violan las condiciones del permiso o las disposiciones del Reglamento para el Control de la Contaminación Atmosférica, del Reglamento para el Manejo de Desperdicios Sólidos o del Reglamento para el Trámite de los Permisos Generales. La información y condiciones sometidas en su solicitud forman parte de esta autorización. La Junta se reserva el derecho de intervenir con la fuente en otros aspectos no cubiertos en esta autorización.

Fecha de expedición: 30/09/2011 (Día / Mes / Año)

JUNTA DE CALIDAD AMBIENTAL APROBADO

Fecha de expiración: 30/09/2012 (Día / Mes / Año)

Firma Representante JCA

PG-ASB-52-1011-0112-RC
PARA USO OFICIAL

HOJA DE PAGO

Nombre del Proyecto: Desmantelamiento Antiguas Facilidades PR Olefins

Nombre del Solicitante: Homeca Recycling Center Co, Inc

I. Cuotas de Radicación

A. Radicación de Solicitud

1. **Solicitud nueva (cargo fijo $750.00)** $750.00

2. **Modificación ($300.00)** ..... $☐☐☐.☐☐
Las modificaciones incluyen cambios en transportista, lugar de disposición, laboratorio, cambios al plan de trabajo, aumento en cantidad de material removido y aumento en la duración del proyecto. Si existe aumento en la duración del proyecto deberá pagar en adición la cantidad correspondiente a la nueva duración del proyecto.

B. Cargos Fijos por Duración del proyecto de remoción de mca
La duración del proyecto empezará a contar a partir de la fecha de radicación de este permiso.

1. **De 1 a 30 días** ..... $☐☐☐.☐☐
$350.00
2. **De 31 a 90 días** ..... $☐☐☐.☐☐
$900.00
3. **De 91 a 365 días** $1,500.00
$1,500.00
4. **De 366 a 730 días (2 años)** ..... $☐☐☐.☐☐
$3,000.00
5. **De 731 a 1095 días (3 años)** ..... $☐☐☐.☐☐
$4,500.00
6. **De 1096 a 1825 días (5 años)** ..... $☐☐☐.☐☐
$6,000.00

TOTAL $2,250.00

C. Viviendas Unifamiliares ..... $☐☐☐.☐☐
Las viviendas unifamiliares sólo pagará un cargo por radicación de $100.00 y estarán exentas del cargo fijo por duración del proyecto y se definen como una unidad de vivienda o residencia privada donde reside una familia y el dueño de la residencia es una persona natural y no una agencia, empresa, organización o corporación pública o privada. Este permiso será emitido por un año.

II. Cuotas de Transferencia (cargo fijo $100.00) ..... $☐☐☐.☐☐

Nota: Los cargos por radicación y cargos fijos requeridos en esta solicitud no serán devueltos.

PARA USO OFICIAL

SECRETARÍA

Cotejado por: _____ (Radicador) Fecha: 30 / 09 / 2011 (Día / Mes / Año) Cantidad a pagar: $ 2,250.00

DIVISIÓN DE FINANZAS

Efectivo ☐ Giro ☐ Cheque Corporativo ☑ # _____ Recibo # ☐☐☐☐☐☐☐☐☐☐

_____ (Firma Recaudador Oficial)

___/___/___ (Día / Mes / Año)

PG-ASB-____-_____-_____-____
PARA USO OFICIAL

CONDICIONES PERMISO GENERAL PARA EL MANEJO DE MATERIALES CON CONTENIDO DE ASBESTO

1. Mantendrá copia de este permiso en el proyecto en todo momento.

2. Se autoriza específicamente la actividad descrita en el formulario de la solicitud de permiso general para el manejo de materiales con contenido de asbesto y la misma se llevará a cabo de acuerdo con el plan de trabajo presentado junto con el formulario de esta solicitud.

3. La actividad de manejo de materiales con contenido de asbesto no podrá exceder el período solicitado en el formulario de solicitud de permiso general. El dueño, agente o representante autorizado deberá presentar una modificación a este permiso si la actividad para el manejo de materiales con contenido de asbesto debe extenderse por más del tiempo solicitado. Si el permiso expira antes de someterse la modificación, deberá someter una nueva solicitud y un formulario nuevo de permiso general.

4. El dueño, agente o representante autorizado deberá notificar a la Junta de Calidad Ambiental (JCA) la fecha real de comienzo el mismo día o antes de comenzar las actividades de remoción de material con contenido de asbesto.

5. El dueño, agente o representante autorizado deberá cumplir con los requisitos aplicables de notificación contenidos en la Sección 61.145(b) del 40 CRF. Esta notificación, de ser aplicable, deberá enviarse en original y dos copias a *US EPA Caribbean Environmental Protection Division*, Centro Europa Building, Suite 417, 1492 Ponce de León Avenue, Stop 22, San Juan, PR 00907-4127. Si de acuerdo con la Sección 61.145(b) del 40 CRF, el dueño, agente o representante autorizado tuviese que someter a la EPA otra notificación adicional a la radicada con esta solicitud, deberá someter a la JCA una copia de dicha notificación adicional sometida a la EPA en la misma fecha en que notifique a la EPA. Se le apercibe que el incumplimiento con este requisito, de ser aplicable, podrá conllevar la revocación del permiso y la imposición de las multas correspondientes.

6. El dueño, agente o representante autorizado deberá notificar por escrito la fecha real de terminación del proyecto de remoción no más tarde de 5 días de terminado el proyecto. Se aceptarán notificaciones adelantadas por fax. Si la notificación es adelantada por fax, deberá enviar la notificación original por correo o radicarla en la Oficina de Radicaciones de Secretaría de la Junta de Calidad Ambiental.

7. Deberá cumplir con todas las especificaciones establecidas en el plan de trabajo entregado con este formulario de solicitud de permiso general. Para efectuar cualquier cambio de las especificaciones del plan de trabajo deberá someter una modificación a este permiso.

8. Las actividades de remoción, transporte y disposición del material con contenido de asbesto se realizarán de acuerdo con los requisitos y en cumplimiento con la Regla 422 del Reglamento para el Control de la Contaminación Atmosférica (RCCA) y de acuerdo con los requisitos aplicables del:

   a. Título 40 del CRF, Parte 61, Subparte M, Estándares Nacionales de Emisiones para asbesto.

   b. Título 40 del CRF, Parte 763, Subparte E, Materiales con Contenido de Asbesto en las Escuelas si la actividad de remoción, transporte y disposición del material que contiene asbesto es realizada en una escuela pública o privada.

9. De acuerdo con la Regla 420 del Reglamento para el Control de la Contaminación Atmosférica (RCCA) no causará ni permitirá la emisión a la atmósfera de materia que produzca un olor objetable o desagradable que se pueda percibir en predios que no sean aquellos que han sido designados para propósitos de la remoción de asbesto.

PERSONAL AUTORIZADO

10. Todo el personal (trabajador, supervisor, inspector, planificador, diseñador de proyecto y especialista en muestreo) que trabaje en la remoción de asbesto deberá estar autorizado y registrado en la Junta. Las personas autorizadas para trabajar en la remoción de asbesto son las incluidas junto con este formulario de solicitud de permiso general y cuyas tarjetas estén vigentes durante el período en que se lleve a cabo la actividad aplicable (p. ej. inspección, monitoreo, remoción, planificación, supervisión).

11. El dueño, agente o representante autorizado será responsable de que todo el personal tenga consigo y en un lugar visible su tarjeta de registro de la JCA mientras trabaje en la actividad de manejo de materiales con contenido de asbesto.

12. Deberá mantener un registro diario del nombre, número de registro de la tarjeta de la JCA y la firma de todo el personal que trabaje en el proyecto. Este deberá estar disponible en el proyecto para la inspección y la revisión de personal técnico de la JCA.

13. Deberá notificar por escrito, en un período no mayor de 5 días, el nombre de las personas que no fueron incluidas en el plan de trabajo y que comenzarán a trabajar en la remoción de asbesto luego de sometido este formulario de solicitud de permiso general. La notificación deberá incluir copia de las tarjetas de registro vigentes de la JCA para realizar estas labores.

14. No se permitirá personal en trabajos de remoción de asbesto cuya tarjeta de registro de la Junta esté vencida. Deberá recertificar a todo el personal que trabaje en la remoción de asbesto antes de la fecha de expiración de sus tarjetas y someterá evidencia de la recertificación (copia de las nuevas tarjetas) a la JCA.

DURANTE LA OPERACIÓN

15. Deberá aislar el área de trabajo de manera que evite el acceso de personas ajenas a dichas áreas.

16. Deberá instalar por lo menos 2 rótulos en lugares visibles, accesibles y legibles a una distancia no mayor de 50 pies y no menor de 20 pies del área de trabajo. El área de trabajo tiene que estar rotulada de la siguiente manera:

    PELIGRO NO ENTRE, removiéndose material que contiene asbesto.
    Inhalar fibras de asbesto puede causar daños serios a la salud.
    Evite levantar polvo.

17. Durante las tareas de remoción de material con contenido de asbesto, deberá estar presente un supervisor certificado que evidencie estar en el registro de personas certificadas de la JCA en trabajos de asbesto.

18. Antes y durante la operación deberá humedecer la superficie del material para que éste no gane acceso al aire o al terreno.

19. El material debe ser embolsado, envuelto o mantenerse mojado hasta que sea transferido a un recipiente cerrado antes del final de la jornada de trabajo.

20. Deberá utilizar ventilación local equipada con Filtros para Partículas Alta Eficiencia (HEPA, en inglés) cuando las labores de remoción lo requieran.

21. Durante el proceso de remoción, las partículas pequeñas del material deberán ser colectadas mediante el uso de aspiradoras equipadas con filtros HEPA.

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PARA USO OFICIAL

CONDICIONES PERMISO GENERAL PARA EL MANEJO DE MATERIALES CON CONTENIDO DE ASBESTO (CONTINUACIÓN)

22. Deberá utilizar dos capas de polietileno de 4 milésimas de espesor en las paredes y dos capas de 6 milésimas de espesor en el suelo.

23. En caso de trabajos de remoción de estucado de techo utilizando agua a presión deberá cumplir con lo siguiente:

    a) el sistema que se utilice para remover el estucado deberá instalarse, conservarse y operarse de acuerdo con las condiciones especificadas por el fabricante;
    b) deberá asegurarse de cubrir las paredes de tal manera que los plásticos no se desprendan durante la remoción;
    c) colocará diques en las puertas para asegurarse que el agua no se filtre hacia el exterior;
    d) deberá sellar adecuadamente los drenajes que se encuentren dentro del área de trabajo;
    e) el agua utilizada en la remoción deberá ser colectada mediante equipos de succión equipados con filtros HEPA;
    f) el agua colectada deberá ser filtrada en un sistema de filtros HEPA. Los filtros estarán colocados en serie de tal forma que el tamaño del poro disminuya progresivamente (100, 50 y 5 micrones).
    g) evitará usar agua en exceso la cual pudiera ganar acceso al terreno o a los cuerpos de agua a través de los drenajes o que pudiera filtrarse fuera del encierre.
    h) el agua una vez filtrada se dispondrá a través del sistema de alcantarillado sanitario.

24. En caso de trabajos de remoción de materiales de impermeabilización de techo deberá cumplir con lo siguiente:

    a) mantendrá el material húmedo en todo momento;
    b) evitará barrer en seco;
    c) los equipos de remoción estarán equipados con aspersores de agua o equipos de succión equipados con filtros HEPA; y
    d) evitará usar agua enmendada en exceso la cual pudiera ganar acceso al terreno o a los cuerpos de agua a través de los drenajes del agua de lluvia, respiraderos o ventiladores.

25. En caso de trabajos de remoción de pegamento de losas de vinilo mediante el uso de solventes deberá cumplir con lo siguiente:

    a) mantendrá copia de la hoja de datos de seguridad del material (MSDS, en inglés) del solvente a utilizarse en el lugar de trabajo en todo momento;
    b) deberá cumplir con todas las especificaciones establecidas en la hoja de datos de seguridad del material al manejar el mismo;
    c) evitará utilizar el solvente en lugares donde se registran altas temperaturas;
    d) deberá aislar el área de trabajo e instalar rótulos de precaución;
    e) deberá sellar el área de trabajo con plástico de 6 milésimas;
    f) mantendrá ventilación mecánica con filtros HEPA; y
    g) evitará que el solvente entre a los drenajes del edificio los cuales a su vez pudieran llegar al alcantarillado pluvial o sanitario.

26. Durante los trabajos de remoción de losas de vinilo mediante aplicación de calor deberá cumplir con lo siguiente:

    a) las losas de vinilo deberán estar en buenas condiciones;
    b) deberá examinar previamente las losas de vinilo para determinar si las mismas pudieran convertirse en desmenuzables durante la remoción;
    c) no podrá remover el pegamento de la losa mediante la técnica de aplicación de calor;
    d) evitará usar calor en exceso lo cual pudiera ocasionar incendios;
    e) deberá aislar el área de trabajo e instalar rótulos de precaución;
    f) deberá sellar el área de trabajo con plástico de 6 milésimas;
    g) mantendrá ventilación mecánica con filtros HEPA; y
    h) los trabajadores deberán utilizar respiradores equipados con filtros para vapores orgánicos.

27. Deberá preparar un área de descontaminación (decon) conectada junto al área regulada que incluya, sin limitarse a, un cuarto limpio, baño y un cuarto sucio.

28. En los trabajos Categoría I para la remoción de aislamiento de tuberías, las bolsas de guantes se pueden usar solamente para remover no más de 3 pies lineales al mismo tiempo. Para cantidades mayores de 3 pies lineales será necesario la construcción de un mini encierre o encierre completo. Una bolsa de plástico con guantes internos que provee un área encerrada para manejar las herramientas y el material con contenido de asbesto.

29. Las bolsas de guantes no deben utilizarse en superficies con una temperatura mayor de 150ºF (65ºC).

30. Al usar bolsas de guantes seguirá las reglas existentes en trabajos mayores para evitar que las fibras de asbesto lleguen al aire, esto incluye, pero sin limitarse a:

    a) mantener húmedo el asbesto.
    b) aislar el área de trabajo e instalar rótulos de precaución.
    c) filtrar el aire utilizando filtros HEPA.
    d) mantener presión negativa de aire dentro de la bolsa usando aspirador con filtro HEPA.
    e) las bolsas de guantes deberán tener rótulos de precaución de acuerdo con la reglamentación vigente.
    f) realizar muestreos de aire antes durante y después de las actividades de remoción y deberá realizar muestreo de aire personal durante dichas actividades.

31. Durante trabajos de remoción de escombros que se encuentren sobre el terreno, deberá colectar y disponer todo el terreno contaminado con partículas del material con asbesto las cuales no puedan ser colectadas manualmente o con aspiradoras HEPA.

PROTECCIÓN PERSONAL

32. Deberá cumplir con las medidas de seguridad y equipo de protección personal especificados en su plan de remoción de asbesto según la reglamentación que especifica la Oficina de Seguridad y Salud en el Trabajo (OSHO) del Departamento del Trabajo y Recursos Humanos.

MONITOREO GENERAL (MUESTRAS DE AIRE)

33. El análisis de las muestras de aire tomadas durante los trabajos de remoción estará a cargo de ellos laboratorio/s identificado/s en este formulario de solicitud de permiso general. El laboratorio contratado deberá estar acreditado por la *American Industrial Hygiene Association* (AIHA, en inglés). De haber algún cambio de laboratorio, deberá someter antes una modificación a este permiso.

34. Deberá realizar los muestreos de aire antes, durante y al finalizar la actividad de remoción.

35. Tomará un mínimo de seis muestras de aire al día.

36. Deberá realizarle muestras personales diarias al 25% de los trabajadores que se encuentren laborando en la actividad de remoción. Estas muestras deberán incluir el nombre y el número de registro otorgado por la Junta de cada persona que realice las muestras.

37. Las muestras de aire personales, de área y finales serán analizadas mediante el Método NIOSH 7400 – Microscopía de Contraste de Fase (PCM, en inglés).

38. Las muestras de aire de área deberán incluir la información por el nombre del edificio, las áreas específicas de los edificios y las estructuras de la planta donde se realicen. Este deberá realizarlo un especialista en muestreo, certificado y autorizado por la Junta. Deberán incluir el nombre y el número de registro otorgado por la Junta de cada persona que realice las muestras.

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PG-ASB-____-____-____
PARA USO OFICIAL

CONDICIONES PERMISO GENERAL PARA EL MANEJO DE MATERIALES CON CONTENIDO DE ASBESTO (CONTINUACIÓN)

39. Deberá limpiar el cuarto con paños húmedos y esperar veinticuatro (24) horas. Limpiar el cuarto de nuevo con paños húmedos y aspirado de filtro HEPA. El cuarto se considera limpio cuando solamente hay 0.005 fibras por centímetro cúbico (f/cc).

40. Si la remoción de material con contenido de asbesto se realiza en una escuela pública o privada, las muestras de aire tomadas luego de la limpieza final (*Clearance*) serán analizadas mediante el método de Microscopía de Transmisión de Electrones (TEM, en inglés). El análisis se hará de acuerdo con los requisitos aplicables en el 40 CRF, Parte 763, Subparte E.

41. Si durante los trabajos de remoción surge la necesidad de tomar muestras de otros materiales sospechosos, los mismos deberán ser muestreados por un inspector certificado y registrado en la Junta. Las muestras colectadas deberán ser analizadas por un laboratorio reconocido por el *National Voluntary Laboratory Accreditation Program* (NVLAP, en inglés) y que cumpla satisfactoriamente con los criterios del *National Institute of Standards and Technology* (NIST, en inglés). La acreditación del laboratorio deberá incluir el análisis de las muestras mediante Microscopía de Luz Polarizada (PLM, en inglés).

TRANSPORTACIÓN Y DISPOSICIÓN DEL MCA

42. Las porciones pequeñas del material de desecho así como, todo material que se usó durante la limpieza o utilizados en el área de trabajo, deberán empacarse en bolsas dobles de 6 milésimas de espesor u otro tipo de envase impermeable apropiado que evite la emisión de fibras o partículas fuera de los envases y dispuestos según aprobado por la Junta.

43. En los envases deberán utilizar etiquetas que establezcan:

PELIGRO
CONTIENE FIBRAS DE ASBESTO
EVITE CREAR POLVO
PELIGRO DE CANCER Y ENFERMEDADES DE LOS PULMONES

44. La transportación del material contaminado estará a cargo de la compañía identificada en este formulario de solicitud de permiso general. De surgir la necesidad de utilizar otro transportista, deberá antes modificar este permiso e incluir el número de Permiso para Servicio de Recolección y Transportación de Desperdicios Sólidos No Peligrosos de la JCA y la fecha de expiración del mismo. Además incluirá la carta original del nuevo transportista.

45. La disposición final del material contaminado se hará en el sistema de relleno sanitario identificado en este formulario de solicitud de permiso general. De surgir la necesidad de utilizar otro sistema de relleno sanitario, deberá antes modificar este permiso e incluir el número de Permiso de Operación para un Sistema de Relleno Sanitario de Desperdicios Sólidos No Peligrosos de la JCA y la fecha de expiración del mismo. Además incluirá la carta original del lugar de disposición.

46. El lugar de disposición se rotulará de la siguiente manera:

PELIGRO
ÁREA DE DISPOSICIÓN DE ASBESTO

INFORMES

47. Deberá someter un informe mensual antes del día 15 del próximo mes que incluya las tareas específicas de los edificios y las estructuras de la planta donde se realizan las actividades de remoción junto con la cantidad de material con contenido de asbesto removidas. Estos informes no sustituyen el informe final de cierre.

48. Deberá someter un informe final de cierre en forma clara y legible dentro de los próximos 60 días de haber finalizado la remoción de material con contenido de asbesto. El mismo deberá incluir:

    a) hojas de cadena de custodia
    b) manifiestos de la disposición del material (claros y legibles)
    c) resumen de las tareas diarias

    De haber alguna diferencia entre la cantidad de asbesto autorizada para la remoción y la dispuesta, deberá someter una carta explicando la razón de la diferencia.

49. El incumplimiento con cualquiera de los requisitos de este permiso constituirá una violación y el dueño, agente o representante autorizado del proyecto estará sujeto a una orden administrativa a una penalidad administrativa o ambas.

50. Este permiso o sus modificaciones no podrán sobrepasar el periodo de 5 años de vigencia. Si el proyecto continua por más de los 5 años solicitados, deberá solicitar un permiso nuevo, o sea presentar una solicitud inicial.

51. Deberá someter a la Junta cualquier información adicional que ésta requiera.

ANEJO 2

THE ATMOSPHERIC ASSESSMENT GROUP

Adolfo Valdés Agrait
Senior Partner
P. O. Box 219
Mercedita, Puerto Rico 00715-0219

Environmental, Safety and Health
Consultant and Training Facility
e-mail: taagroup@prtc.net
(787) 842-8592/504-0279

October 31st, 2011

Ing. Luzdellys Echevarría, Project Manager
HOMECA Recycling, Inc.
155 Munoz Rivera Ave. PMB 120
Ponce, Puerto Rico 00717-0211

RE: Environmental Assessment to Determine the Presence and Concentration of Lead Based Paint (LBP) in the Former Puerto Rico Olefins (PRO) Facilities

Dear Mrs. Echevarria:

The enclosed report contains our findings during the assessment to determine the presence and the concentration of Lead Based Paint (LBP) in the Former Puerto Rico Olefins Facilities, in Tallaboa, Puerto Rico. The assessment was conducted during the month of October 2011, by EQB Certified Lead Based Inspectors.

The results demonstrate that several of the structural components in the facility contain Leaded Based Paint (LBP).

We appreciate the opportunity to work with you in this assignment.

Cordially,

Adolfo Valdés Agrait, M. Sc.
Enclosure: TAAG Report

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RX6
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THE ATMOSPHERIC ASSESSMENT GROUP

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~ENVIRONMENTAL ASSESSMENT REPORT~

DETERMINATION OF THE PRESENCE AND THE CONCENTRATION OF LEAD BASE PAINT (LBP) IN THE FORMER PUERTO RICO OLEFINNS FACILITIES IN TALLABOA, PUERTO RICO

Prepared for: Ing. Luzdellys Echevarría, Project Manager
HOMECA Recycling, Inc.
155 Munoz Rivera Ave. PMB 120
Ponce, Puerto Rico 00717-0211

Prepared by:

Adolfo Valdés Agrait, M. Sc. Chemist

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1.0 Project Objective

2.0 Lead Based Paint (LBP) Background Information

3.0 Lead Assessment Results

Appendix A Company and Inspector Certificates

Appendix B LPA-1 Specification Sheet

Appendix C Assessment Results Tables

Appendix D Assessment Photo Log

1.0 PROJECT OBJECTIVE

The purpose of the survey was to determine the presence of LBP in the structural components following the requirements described in the Guidelines for the Evaluation and Control of Lead Based Paint in Housing, H.U.D. Chapter 7, 1997 revision – 40 CFR 61. This survey was by conducted by Mr. Marcos R. M. Valdes Irizarry during the month of October 2011. The Environmental Quality Board Lead based Paint Inspector credentials are included in appendix B.

2.0 LEAD BASED PAINT BACKGROUND INFORMATION

Lead Based paint has been defined by the Department of Housing and Urban Development as 1.0 mg/cm^2 as measured by XRF instrument or Atomic Absorption Spectroscopy (AAS) or 0.5% by weight (5,000 ppm) as measured by AAS or Inductive Coupled Plasma (ICP). The same level was adopted by EPA regulations published in 1992, under Title X. The survey was conducted following the HUD/EPA Guidelines for the Evaluation and Control of Lead Based Paint.

The following guidelines were used to perform LBP testing:

1. Perform inventory of all testing combinations
2. Select painted area to be tested
3. Perform XRF testing (including calibration checks).
4. Review and evaluate the result
5. Report results

3.0 LEAD BASED PAINT (LBP) RESULTS

A total of one thousand eight hundred eighty two (1,882) testing combinations were tested using a Model LPA-1, X-Ray Fluorescence instrument (XRF) manufactured Radiation Monitoring Devices Corporation. The XRF instrument was set at Quick Mode to obtain readings with a 95% confidence level. Results are expressed as concentration in mg/cm^2.

Company certifications are presented in Appendix A. Appendix B presents the instrument Specification Sheet. The XRF results are shown in Appendix C. Lead based Paint photo log is shown in Appendix D.

APPENDIX A

Company and Inspector Certificates

ESTADO LIBRE ASOCIADO DE PUERTO RICO
OFICINA DEL GOBERNADOR
JUNTA DE CALIDAD AMBIENTAL

Este certificado es otorgado a:

The Atmospheric Assessment Group
(# s.social: 660-53-7474)

Por haber cumplido con los requisitos establecidos en el Capítulo V, Regla 1541, sección B(2) del Reglamento para el Control de Actividades de Mitigación de Pintura con Base de Plomo. Se le otorga una certificación en la disciplina de

Empresa

Para llevar a cabo actividades de mitigación de pintura con base de plomo en la jurisdicción de Puerto Rico

Número de Certificado
2537 – 0811 – LF - 001

Este certificado está sujeto a ser revocado, suspendido, modificado o enmendado debido a causas que incluyan evidencia de no cumplimiento, información falsa provista en la solicitud o por cualquier alteración que afecte la habilidad de llevar a cabo las tareas efectivamente.

Fecha de emisión: 25 de agosto de 2011
Fecha de expiración: 24 de agosto de 2012

Lcdo. Pedro J. Nieves Miranda
Presidente

CONFIDENTIAL
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APPENDIX B

Instrument Specification Sheet

Performance Characteristic Sheet

EFFECTIVE DATE: December 1, 2006 **EDITION NO.: 5**

MANUFACTURER AND MODEL:

Make: *Radiation Monitoring Devices*
Model: *LPA-1*
Source: ^{57}Co
Note: This sheet supersedes all previous sheets for the XRF instrument of the make, model, and source shown above ***for instruments sold or serviced after June 26, 1995. For other instruments, see prior editions.***

FIELD OPERATION GUIDANCE

OPERATING PARAMETERS:

Quick mode or 30-second equivalent standard (Time Corrected) mode readings.

XRF CALIBRATION CHECK LIMITS:

0.7 to 1.3 mg/cm^2 (inclusive)

SUBSTRATE CORRECTION:

For XRF results below 4.0 mg/cm^2, substrate correction is recommended for:

Metal using 30-second equivalent standard (Time Corrected) mode readings.
None using quick mode readings.

Substrate correction is not needed for:

Brick, Concrete, Drywall, Plaster, and Wood using 30-second equivalent standard (Time Corrected) mode readings
Brick, Concrete, Drywall, Metal, Plaster, and Wood using quick mode readings

THRESHOLDS:

30-SECOND EQUIVALENT STANDARD MODE READING DESCRIPTION	SUBSTRATE	THRESHOLD (mg/cm^2)
Results corrected for substrate bias *on metal substrate only*	Brick	1.0
	Concrete	1.0
	Drywall	1.0
	Metal	0.9
	Plaster	1.0
	Wood	1.0

QUICK MODE READING DESCRIPTION	SUBSTRATE	THRESHOLD (mg/cm^2)
Readings not corrected for substrate bias on any substrate	Brick	1.0
	Concrete	1.0
	Drywall	1.0
	Metal	1.0
	Plaster	1.0
	Wood	1.0

BACKGROUND INFORMATION

EVALUATION DATA SOURCE AND DATE:

This sheet is supplemental information to be used in conjunction with Chapter 7 of the HUD *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing* ("HUD Guidelines"). Performance parameters shown on this sheet are calculated from the EPA/HUD evaluation using archived building components. Testing was conducted on approximately 150 test locations in July 1995. The instrument that performed testing in September had a new source installed in June 1995 with 12 mCi initial strength.

OPERATING PARAMETERS:

Performance parameters shown in this sheet are applicable only when properly operating the instrument using the manufacturer's instructions and procedures described in Chapter 7 of the HUD Guidelines.

XRF CALIBRATION CHECK:

The calibration of the XRF instrument should be checked using the paint film nearest 1.0 mg/cm^2 in the NIST Standard Reference Material (SRM) used (e.g., for NIST SRM 2579, use the 1.02 mg/cm^2 film).

If readings are outside the acceptable calibration check range, follow the manufacturer's instructions to bring the instruments into control before XRF testing proceeds.

SUBSTRATE CORRECTION VALUE COMPUTATION :

Chapter 7 of the HUD Guidelines provides guidance on correcting XRF results for substrate bias. Supplemental guidance for using the paint film nearest 1.0 mg/cm^2 for substrate correction is provided:

XRF results are corrected for substrate bias by subtracting from each XRF result a correction value determined separately in each house for single-family housing or in each development for multifamily housing, for each substrate. The correction value is an average of XRF readings taken over the NIST SRM paint film nearest to 1.0 mg/cm^2 at test locations that have been scraped bare of their paint covering. Compute the correction values as follows:

> Using the same XRF instrument, take three readings on a bare substrate area covered with the NIST SRM paint film nearest 1 mg/cm^2. Repeat this procedure by taking three more readings on a second bare substrate area of the same substrate covered with the NIST SRM.
>
> Compute the correction value for each substrate type where XRF readings indicate substrate correction is needed by computing the average of all six readings as shown below.
>
> For each substrate type (the 1.02 mg/cm^2 NIST SRM is shown in this example; use the actual lead loading of the NIST SRM used for substrate correction):
>
> Correction value = (1^{st} + 2^{nd} + 3^{rd} + 4^{th} + 5^{th} + 6^{th} *Reading*) / 6 - 1.02 mg/cm^2
>
> Repeat this procedure for each substrate requiring substrate correction in the house or housing development.

EVALUATING THE QUALITY OF XRF TESTING:

Randomly select ten testing combinations for retesting from each house or from two randomly selected units in multifamily housing. Use either the Quick Mode or 30-second equivalent standard (Time Corrected) Mode readings.

Conduct XRF re-testing at the ten testing combinations selected for retesting.

Determine if the XRF testing in the units or house passed or failed the test by applying the steps below.

Compute the Retest Tolerance Limit by the following steps:

Determine XRF results for the original and retest XRF readings. Do not correct the original or retest results for substrate bias. In single-family and multi-family housing, a result is defined as a single reading. Therefore, there will be ten original and ten retest XRF results for each house or for the two selected units.

Calculate the average of the original XRF result and retest XRF result for each testing combination.

Square the average for each testing combination.

Add the ten squared averages together. Call this quantity C.

Multiply the number C by 0.0072. Call this quantity D.

Add the number 0.032 to D. Call this quantity E.

Take the square root of E. Call this quantity F.

Multiply F by 1.645. The result is the Retest Tolerance Limit.

Compute the average of all ten original XRF results.

Compute the average of all ten re-test XRF results.

Find the absolute difference of the two averages.

If the difference is less than the Retest Tolerance Limit, the inspection has passed the retest. If the difference of the overall averages equals or exceeds the Retest Tolerance Limit, this procedure should be repeated with ten new testing combinations. If the difference of the overall averages is equal to or greater than the Ratest Tolerance Limit a second time, then the inspection should be considered deficient.

Use of this procedure is estimated to produce a spurious result approximately 1% of the time. That is, results of this procedure will call for further examination when no examination is warranted in approximately 1 out of 100 dwelling units tested.

BIAS AND PRECISION:

Do not use these bias and precision data to correct for substrate bias. These bias and precision data were computed without substrate correction from samples with reported laboratory results less than 4.0 mg/cm^2 lead. The data which were used to determine the bias and precision estimates given in the table below have the following properties. During the July 1995 testing, there were 15 test locations with a laboratory-reported result equal to or greater than 4.0 mg/cm^2 lead. Of these, one 30-second standard mode reading was less than 1.0 mg/cm^2 and none of the quick mode readings were less than 1.0 mg/cm^2. The instrument that tested in July is representative of instruments sold or serviced after June 26, 1995. These data are for illustrative purposes only. Actual bias must be determined on the site. Results provided above already account for bias and precision. Bias and precision ranges are provided to show the variability found between machines of the same model.

30-SECOND STANDARD MODE READING MEASURED AT	SUBSTRATE	BIAS (mg/cm^2)	PRECISION* (mg/cm^2)
0.0 mg/cm^2	Brick	0.0	0.1
	Concrete	0.0	0.1
	Drywall	0.1	0.1
	Metal	0.3	0.1
	Plaster	0.1	0.1
	Wood	0.0	0.1
0.5 mg/cm^2	Brick	0.0	0.2
	Concrete	0.0	0.2
	Drywall	0.0	0.2
	Metal	0.2	0.2
	Plaster	0.0	0.2
	Wood	0.0	0.2
1.0 mg/cm^2	Brick	0.0	0.3
	Concrete	0.0	0.3
	Drywall	0.0	0.3
	Metal	0.2	0.3
	Plaster	0.0	0.3
	Wood	0.0	0.3
2.0 mg/cm^2	Brick	-0.1	0.4
	Concrete	-0.1	0.4
	Drywall	-0.1	0.4
	Metal	0.1	0.4
	Plaster	-0.1	0.4
	Wood	-0.1	0.4

*Precision at 1 standard deviation.

CLASSIFICATION RESULTS:

XRF results are classified as positive if they are greater than the upper boundary of the inconclusive range, and negative if they are less than the lower boundary of the inconclusive range, or inconclusive if in between. The inconclusive range includes both its upper and lower bounds. Earlier editions of this *XRF Performance Characteristic Sheet* did not include both bounds of the inconclusive range as "inconclusive." While this edition of the Performance Characteristics Sheet uses a different system, the specific XRF readings that are considered positive, negative, or inconclusive for a given XRF model and substrate remain unchanged, so previous inspection results are not affected.

DOCUMENTATION:

An EPA document titled *Methodology for XRF Performance Characteristic Sheets* provides an explanation of the statistical methodology used to construct the data in the sheets, and provides empirical results from using the recommended inconclusive ranges or thresholds for specific XRF instruments. For a copy of this document call the National Lead Information Center Clearinghouse at 1-800-424-LEAD. A HUD document titled *A Nonparametric Method for Estimating the 5th and 95th Percentile Curves of Variable-Time XRF Readings Based on Monotone Regression* provides supplemental information on the methodology for variable-time XRF instruments. A copy of this document can be obtained from the HUD lead web site, www.hud.gov/offices/lead.

This XRF Performance Characteristic Sheet was developed by QuanTech, Inc., under a contract from the U.S. Department of Housing and Urban Development (HUD). HUD has determined that the information provided here is acceptable when used as guidance in conjunction with Chapter 7, Lead-Based Paint Inspection, of HUD's *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing.*

RMD
INSTRUMENTS

Leak Test Certificate

Customer: Enviorecycling,Inc.

System: LPA-1 **Serial Number:** 2445 **Test Date:** 09Nov10

Source Manufacturer: IPL. **Source Model:** A3901-2
Active Material: Co^{57} **Source Activity:** 444 MBq (12 mCi)
Source Serial Num.: G6-279
Assay Date: 23 Feb 10
Source Enclosure: Stainless Steel in Tungsten Holder

Type of Test:	Wipe
Areas Tested and Results:	Front and Sides of Bezel
Results:	All Below .005 µCi

Comments:

Test Performed By: R. Giorgetti

MC170C_R2

44 Hunt Street | Watertown, MA 02472 | (617) 668-6901 | FAX (617) 926-9743 | www.rmd-lpal.com

APPENDIX C

Assessment Lead Based Paint Results

Component Description	Substrate	XRF Sampling No.	Result, LBP mg/cm^2	Photo No.	Color
Caldera X					
Column	Steel	146	4.4	289	Gray
Tank OTK 709	Steel	148	2.2	291	White
Stair	Steel	149	4.4	294	Gray
2' Pipe	Steel	153	1.9	292	Gray
Tank OTK 706	Steel	155	5.4	294	White
Tank OTK 704	Steel	156	4.9	295	White
10" Pipe	Steel	156	4.0	296	Gray
Chimney Plataform OH 701	Steel	160	9.1	298	Gray
Stair	Steel	164	4.1	302	Gray
2nd Chimney (Floor Base)	Steel	167	6.9	304	Gray
Stair and Platform	Steel	169	5.2	306	Gray
12" Pipe (South Side)	Steel	171	2.1	308	Gray
Column	Steel	172	4.8	308	Gray

Component Description	Substrate	XRF Sampling No.	Result, LBP mg/cm^2	Photo No.	Color
Caldera A					
Pirncipal Stair	Steel	179	6.0	311	Gray
Platform	Steel	180	7.3	311	Gray
Angular de Tension	Steel	183	2.4	312	Gray
Viga (Exterior)	Steel	184	1.0	313	Gray
Platform (Under Side)	Steel	191	1.0	320	Gray
Fire Blanket	Steel	193	1.0	321	Red

Component Description	Substrate	XRF Sampling No.	Result, LBP mg/cm^2	Photo No.	Color
Caldera C					
8" Pipe	Steel	214	1.1	339	Red
Angular de Tension	Steel	216	2.5	342	Gray
Viga	Steel	219	4.7	342	Gray
Ladder	Steel	224	5.1	347	Gray

Component Description	Substrate	XRF Sampling No.	Result, LBP mg/cm^2	Photo No.	Color
Caldera C-1					
25' Column Ring (12" dia.)	Steel	234	4.4	357	Gray
Pipe 2" next to 25' column	Steel	235	1.3	358	Gray
10" pipe next to 25' column	Steel	239	2.1	365	Gray
6" pipe next to 25' column	Steel	242	1.0	367	Gray
2" pipe next to 25' column	Steel	246	1.4	370	Gray
Column next to outlet c	Steel	247	2.5	371	Gray
Column next to outlet b	Steel	248	1.0	372	Gray
Cilindre buried to the ground	Steel	261	2.3	385	Gray

Component Description	Substrate	XRF Sampling No.	Result, LBP mg/cm^2	Photo No.	Color
Area next to Caldera A					
Metal base (electric switch)	Steel	272	1.0	388	Gray
Fuel gas pipe	Steel	277	2.7	392	Yellow/Gray
Metal column 3039	Steel	278	2.7	391	Gray
Pipe with 4 valve	Steel	279	2.7	394	Gray

Component Description	Substrate	XRF Sampling No.	Result, LBP mg/cm^2	Photo No.	Color
Caldera D					
Distribution Pipe	Steel	281	4.3	396	Black
Fire Blanket	Steel	284	1.0	398	Red
Platform Base	Steel	285	1.0	399	Gray

Component Description	Substrate	XRF Sampling No.	Result, LBP mg/cm^2	Photo No.	Color
Caldera E					
Distribution Pipe	Steel	300	1.9	411	Black
Plantfrom Base	Steel	302	1.0	413	Gray
Stair NW	Steel	304	1.0	414	Gray

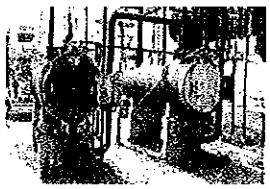
Component Description	Substrate	XRF Sampling No.	Result, LBP mg/cm^2	Photo No.	Color
Caldera F					
Distribution Pipe	Steel	311	2.3	417	Black
8" Pipe (Gas)	Steel	312	2.1	417	Black

Component Description	Substrate	XRF Sampling No.	Result, LBP mg/cm^2	Photo No.	Color
Area next to storage building					
Metal structure frame	Steel	318	3.9	421	Gray

Component Description	Substrate	XRF Sampling No.	Result, LBP mg/cm^2	Photo No.	Color
Area back of main entrance					
2" pipe	Steel	326	2.1	428	Gray
Column	Steel	327	3.2	429	Gray
10" pipe	Steel	328	4.0	430	Gray
Stair ext to column 29118	Steel	329	4.5	431	Gray
Valve joint	Steel	330	1.0	432	Black

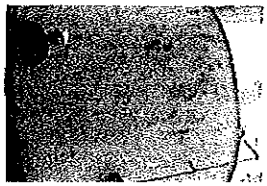
APPENDIX D

LBP Assessment Photo Log

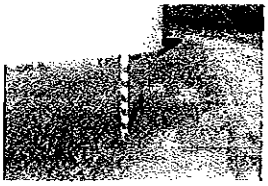

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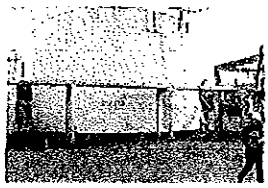

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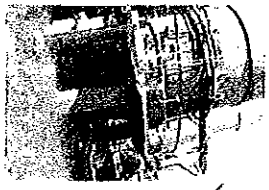

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DSC00296

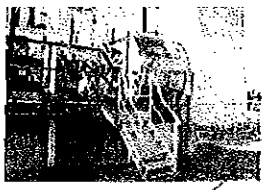

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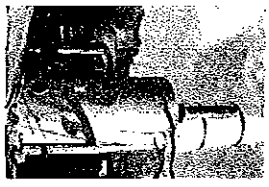

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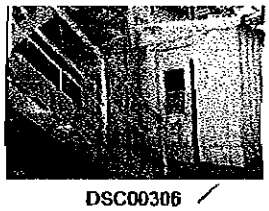

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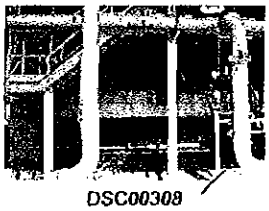

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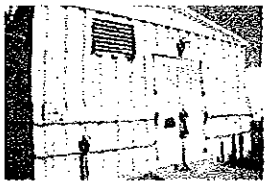

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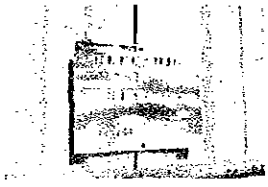

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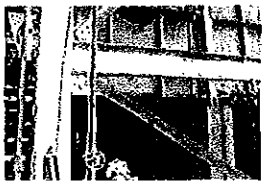

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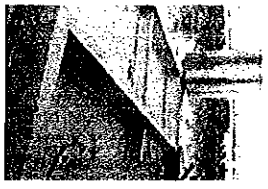

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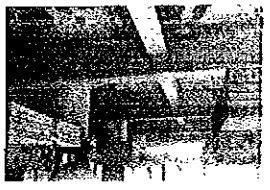

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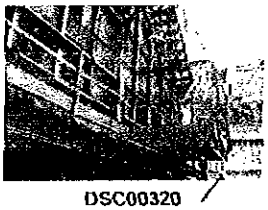

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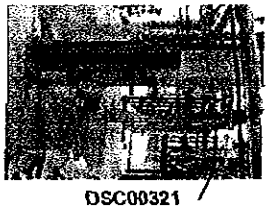

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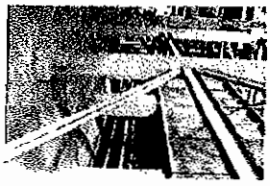

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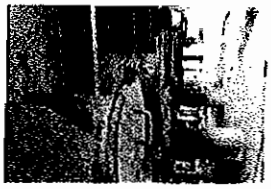

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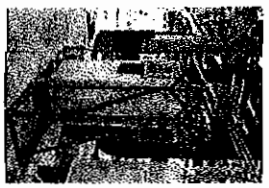

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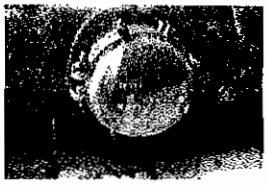

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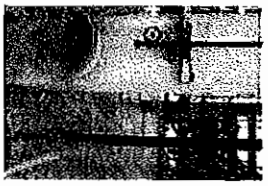

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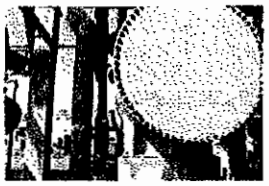

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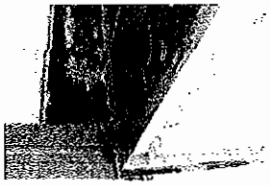

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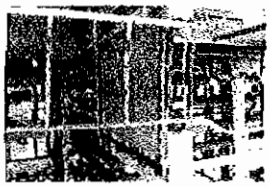

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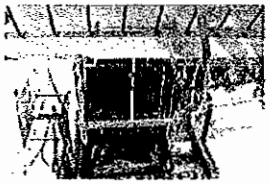

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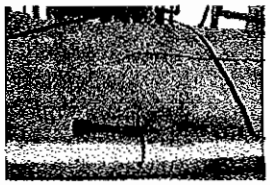

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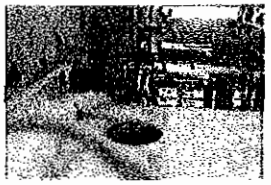

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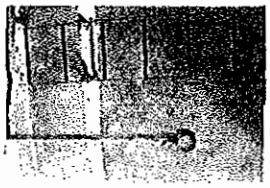

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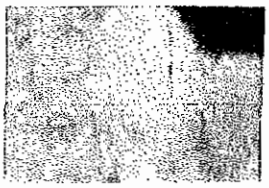

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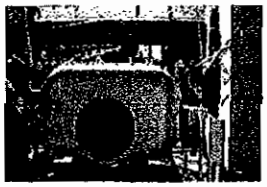

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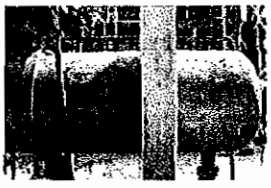

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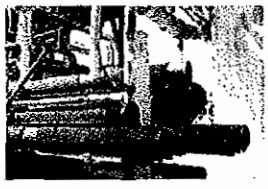

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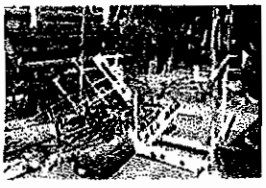

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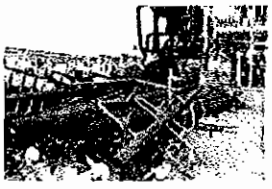

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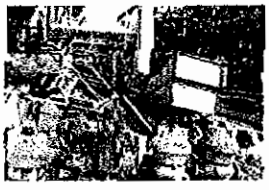

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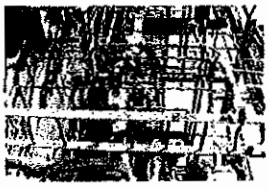

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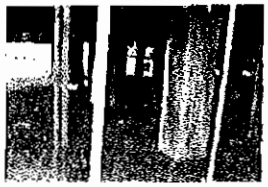

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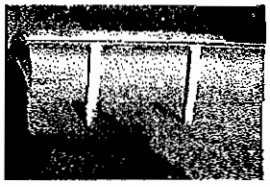

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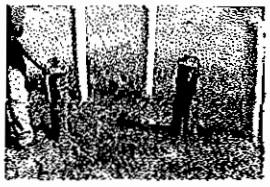

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DSC00408

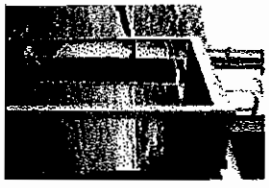

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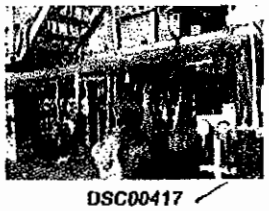

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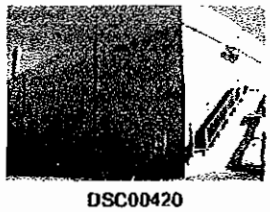

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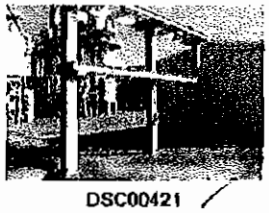

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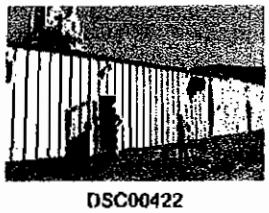

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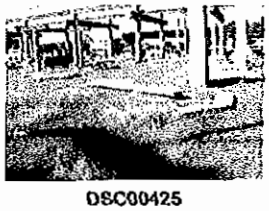

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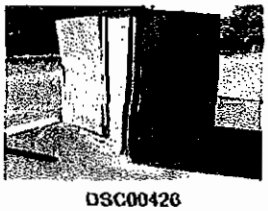

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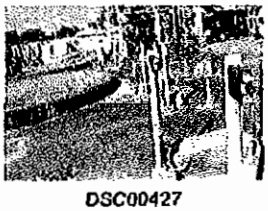

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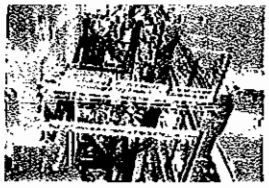

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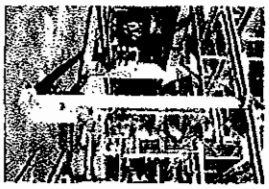

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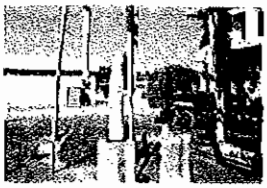

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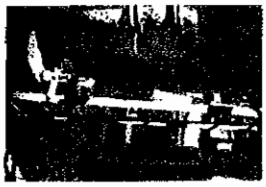

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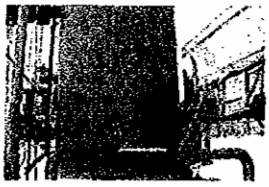

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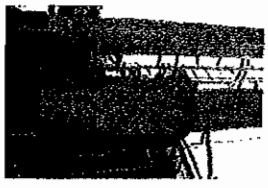

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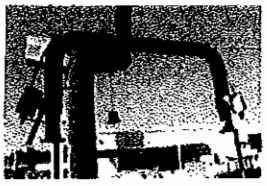

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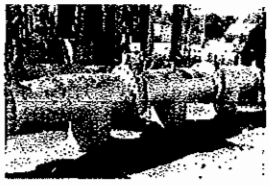

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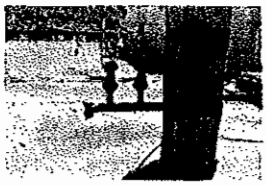

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DSC00450


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DSC00456


DSC00457

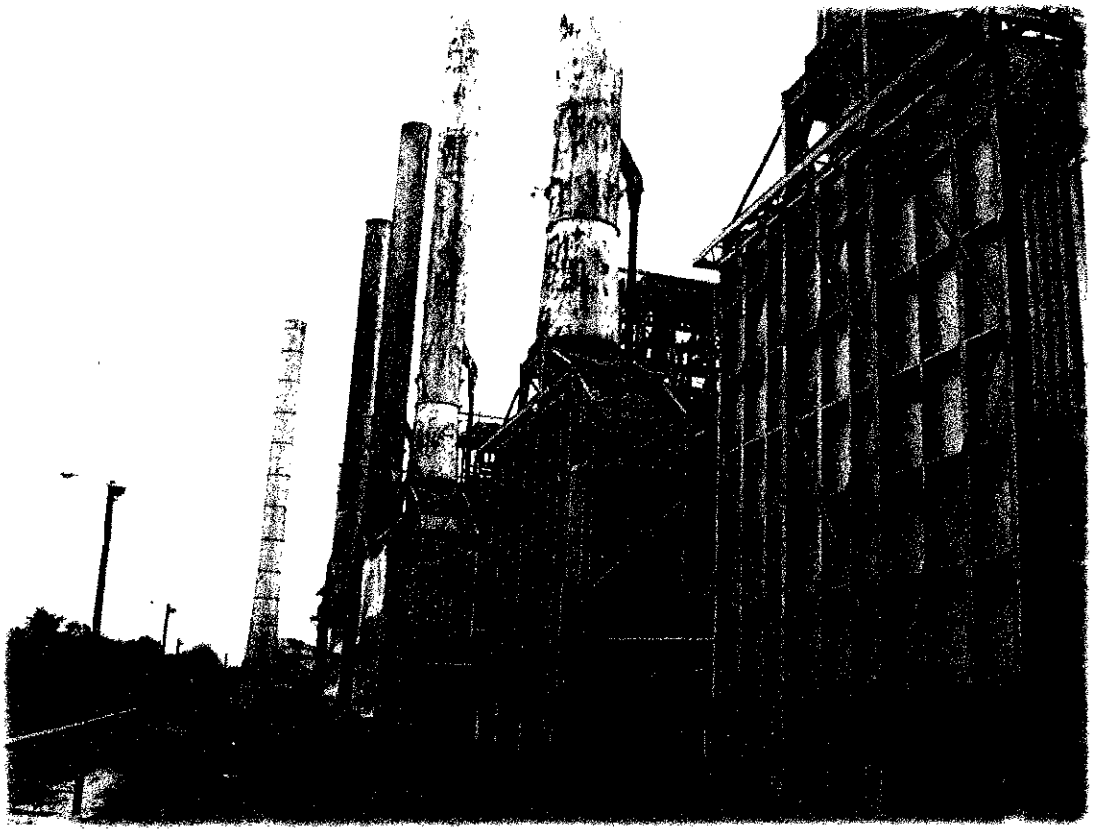
28. Determinación de que la acción propuesta no conllevara un impacto ambiental significativo y un análisis narrativo justificando dicha determinación

A partir del 1953 se inició en la zona sur de Puerto Rico la construcción de diversas facilidades de industrias petroquímicas como parte de una estrategia de desarrollo económico fundamentado. Sin embargo, estas industrias, que cubrían aproximadamente 3,500 cuerdas de terrenos entre Peñuelas y Guayanilla, se vieron afectadas durante la crisis del petróleo entre las décadas de 1970 y 1980. A consecuencia de este evento, desde entonces, según la Subcomisión de Desarrollo Sustentable de la Cámara de Representantes para la Asamblea Legislativa 15ta sección (P. de la C. 4219), solo ha estado utilizando sus facilidades de forma parcial únicamente para almacenamiento de combustible y el uso de un terminal de transportación marítima comercial y otras actividades menores ya que el **80 % de los terrenos y facilidades esta en total abandono.**

En la evaluación del Comité Interagencial formado por la Orden Ejecutiva # OE-2006-05 del gobernador de puerto rico para el 2006, el Hon. Anibal Acevedo Vila, se determinó que estas 3,500 cuerdas están bajo en control de 42 empresas, entre las cuales están: **PR Olefins**, Caribe Isoprene, Chevron Texaco Limited, CORCO, Gulf Chemical, Hercor Chemical, Oxochem, PPG de Puerto Rico Inc, Pipelines PR, Rico Chemical, Shell, Union Caribe y Universal Process.

Este comité determinó que: 13 facilidades antes mencionadas representan unas 550 cuerdas de terrenos que contienen facilidades en uso limitado o abandonadas. Del total de estas cuerdas, se han identificado las primeras 150 cuerdas que tienen niveles de contaminación aceptables y manejables que podrían ser las primeras en removerse y limpiarse; entre las cuales esta: **PR Olefins**, Caribe Isoporene, Oxochem, Hercor Chemicals. Ante el hecho que solo la empresa **PR Olefins** está en total abandono, esta inoperante desde el 1987, y representa un serio peligro a la seguridad de residentes y conductores, es necesario iniciar el proceso de remoción y limpieza de los mismo. Más aun, estos terrenos, unas 45 cuerdas, son un escenario excelente para el desarrollo de nuevas industrias.

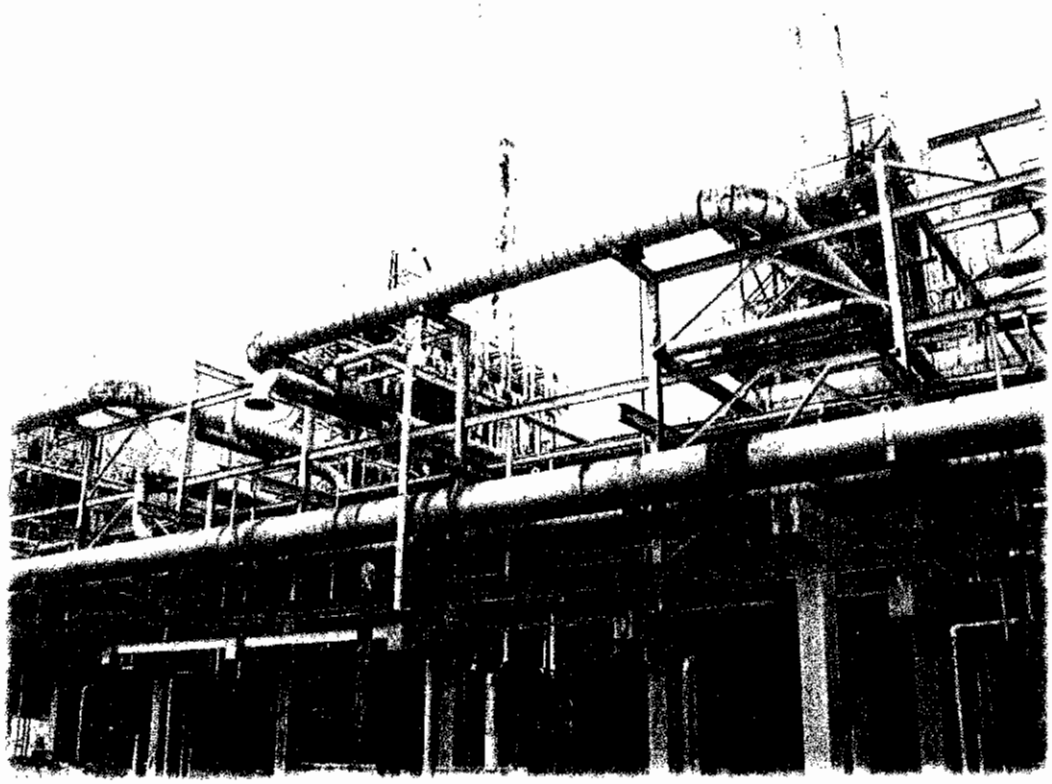
29. Fotografía del predio y de las estructuras o remanentes de las estructuras existentes en la propiedad

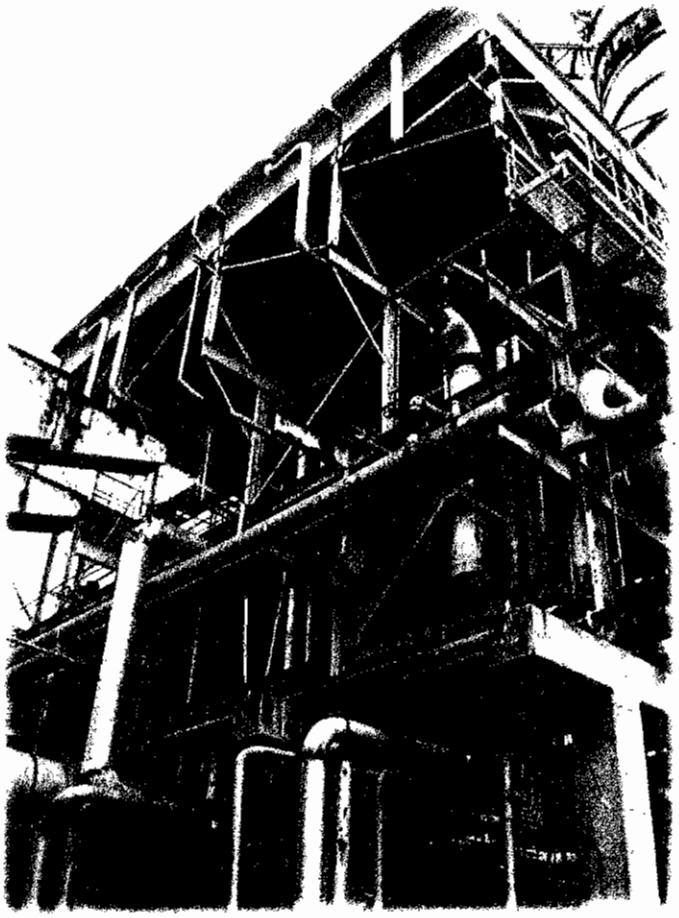


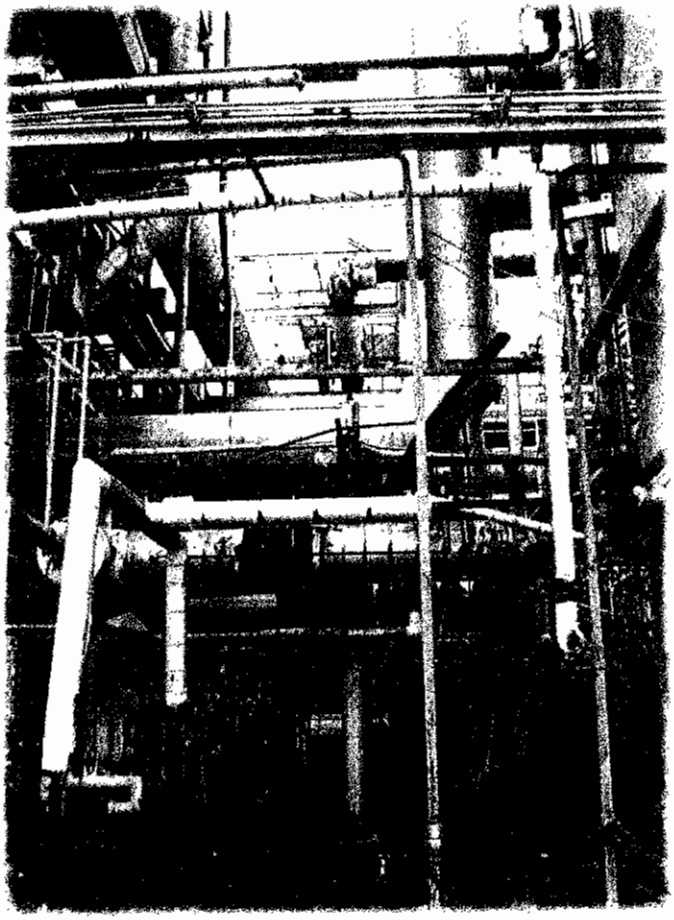


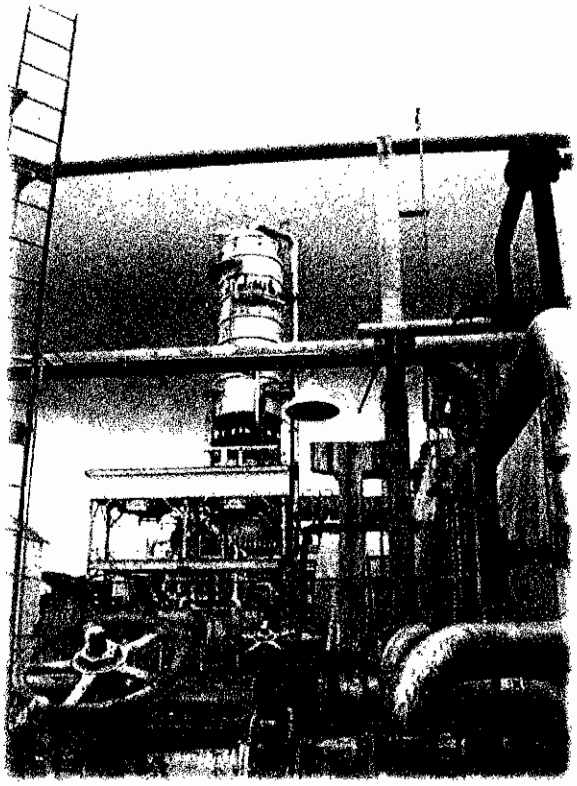


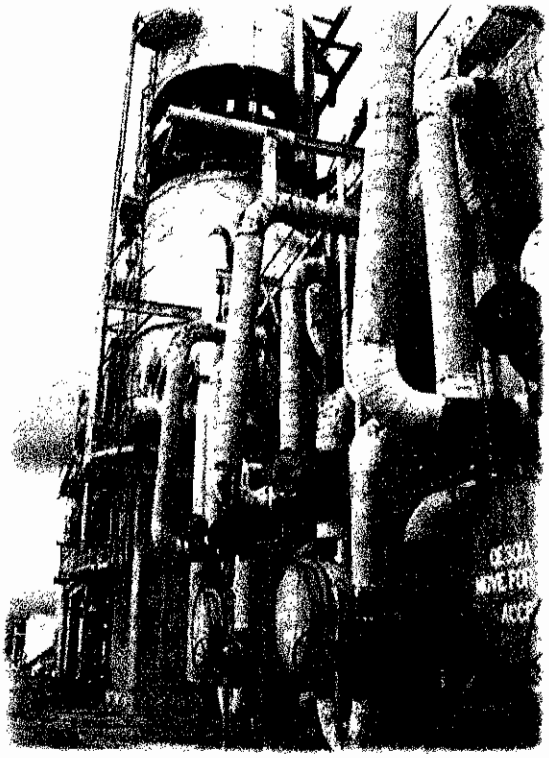
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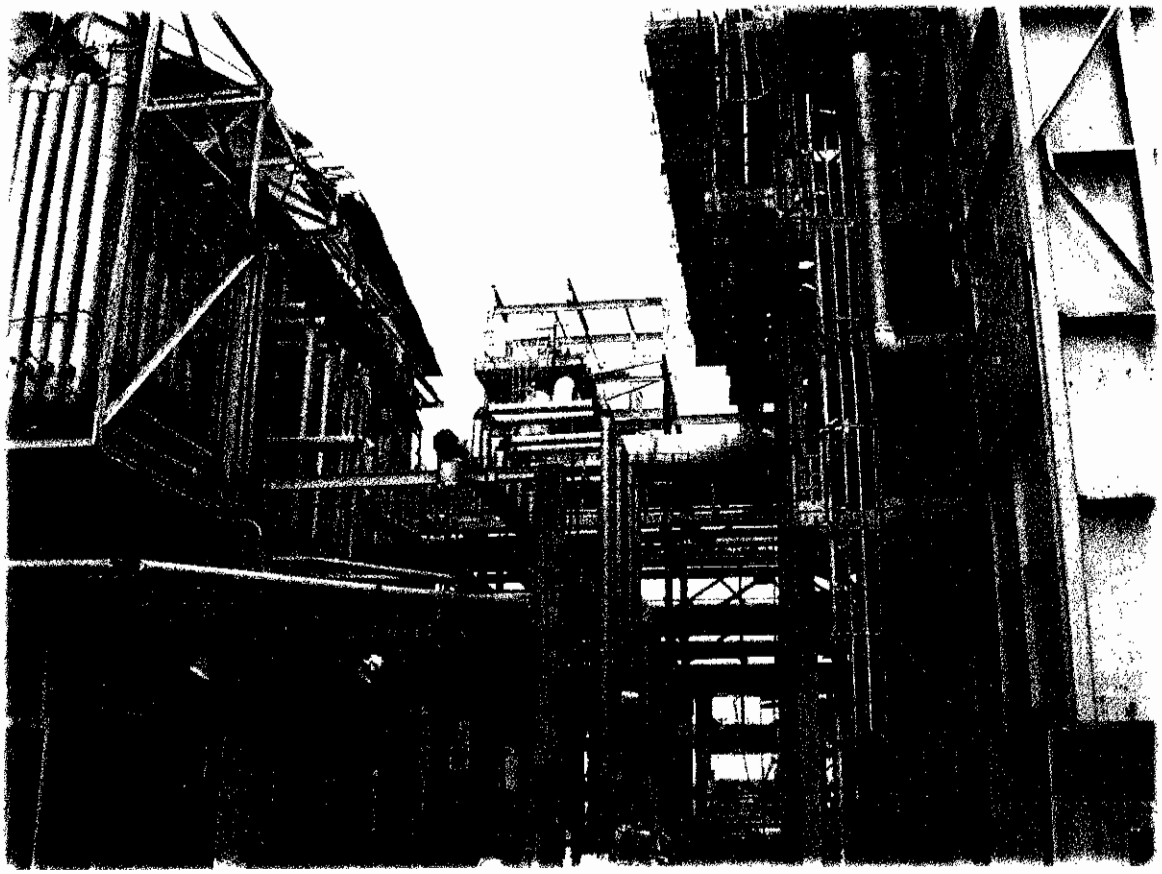




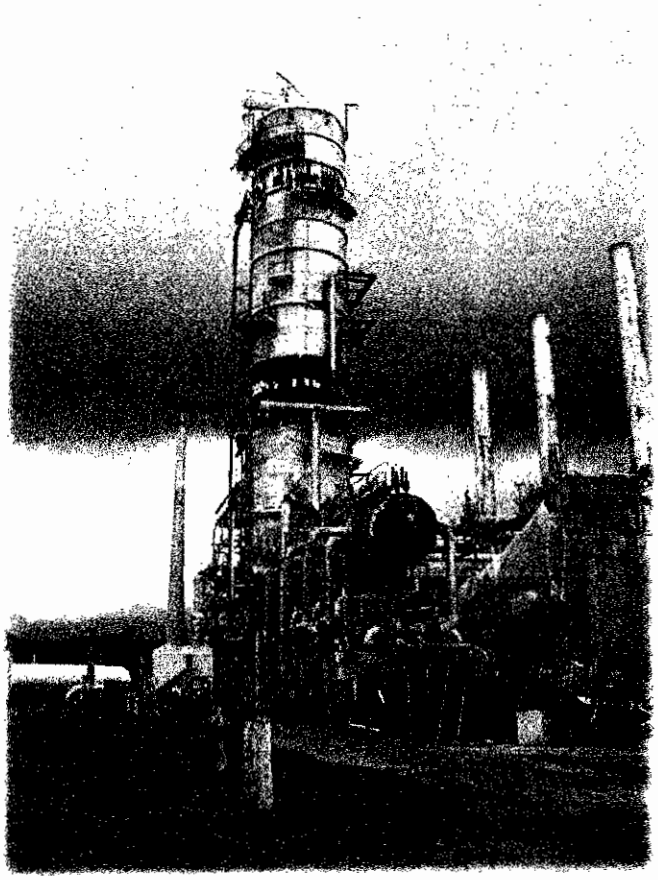












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30. Certificación de Inundabilidad, utilizando el mapa vigente de FEMA y demarcando el área del proyecto

CERTIFICACION SOBRE INUNDABILIDAD

Por la presente CERTIFICO que la información escrita en este documento y en los planos son correctos y que se utilizo como referencia los Mapas sobre Zonas Susceptibles a Inundaciones adoptados por la Junta de Planificación de Puerto Rico.

1. Dirección del Proyecto:
   Tallaboa Industrial Park, carretera127 km 19.1, Bo. Tallaboa Poniente, Sector El Pueblito, Peñuelas Puerto Rico

2. Descripción del Proyecto:
   Desmantelamiento de las antiguas facilidades de PR Olefins

3. Clasificación del solar según Mapa de Zonas Susceptibles a Inundaciones:
   a. Zona: AE
   b. Hoja Núm.: 72000C1640J
   c. Vigencia: 18 DE NOVIEMBRE DE 2009

4. Relleno a depositar
   a) Si Volumen en mts^3 : N/A
   b) No

5. Cabe señalar que el proyecto objeto de esta consulta consta de la desmantelacíon de las antiguas facilidades de PR Olefins y que en el mismo no habrá ningún tipo de construcción.

Para que así conste certifico la misma:

Ing. José Luis Rivera Figueroa
núm. de Licencia: 17818

PO BOX 786, Ensenada
Puerto Rico 00647
Direcc

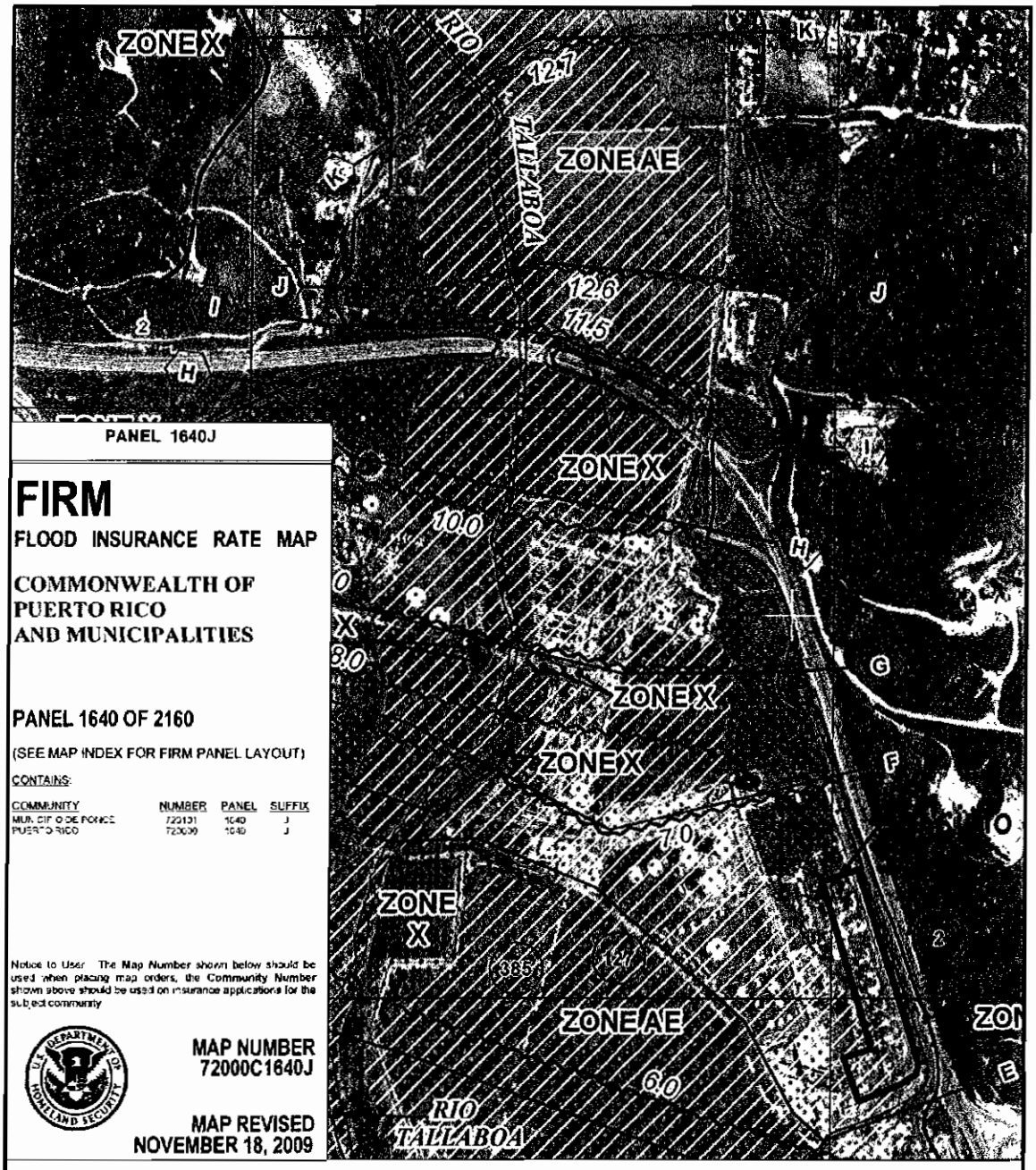
JOSE L. RIVERA FIGUEROA
INGENIERO LICENCIADO
LIC # 17818
PUERTO RICO
SELLO PROFESIONAL AUTORIZADO

RECOMENDACION AMBIENTAL

DESMANTELAMIENTO DE LA ANTIGUAS FACILIDADES DE PUERTO RICO OLEFINS

Tallaboa Industrial Park Carr. 385 km 5.4

Bo. Tallaboa Poniente, Peñuelas Puerto Rico 00624



MAPA DE INUNDABILIDAD (FEMA)

HOJA: 72000C1640J

001033

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RX 6

Page 1,612 of 1,639

30. Certificación de Inundabilidad, utilizando el mapa vigente de FEMA y demarcando el área del proyecto

CERTIFICACION SOBRE INUNDABILIDAD

Por la presente CERTIFICO que la información escrita en este documento y en los planos son correctos y que se utilizo como referencia los Mapas sobre Zonas Susceptibles a Inundaciones adoptados por la Junta de Planificación de Puerto Rico.

1. Dirección del Proyecto:
   Tallaboa Industrial Park, carretera127 km 19.1, Bo. Tallaboa Poniente, Sector El Pueblito, Peñuelas Puerto Rico

2. Descripción del Proyecto:
   Desmantelamiento de las antiguas facilidades de PR Olefins

3. Clasificación del solar según Mapa de Zonas Susceptibles a Inundaciones:
   a. Zona: AE
   b. Hoja Núm.: 72000C1640J
   c. Vigencia: 18 DE NOVIEMBRE DE 2009

4. Relleno a depositar
   a) Si Volumen en mts^3 : N/A
   b) No

5. Cabe señalar que el proyecto objeto de esta consulta consta de la desmantelacíon de las antiguas facilidades de PR Olefins y que en el mismo no habrá ningún tipo de construcción.

Para que así conste certifico la misma:

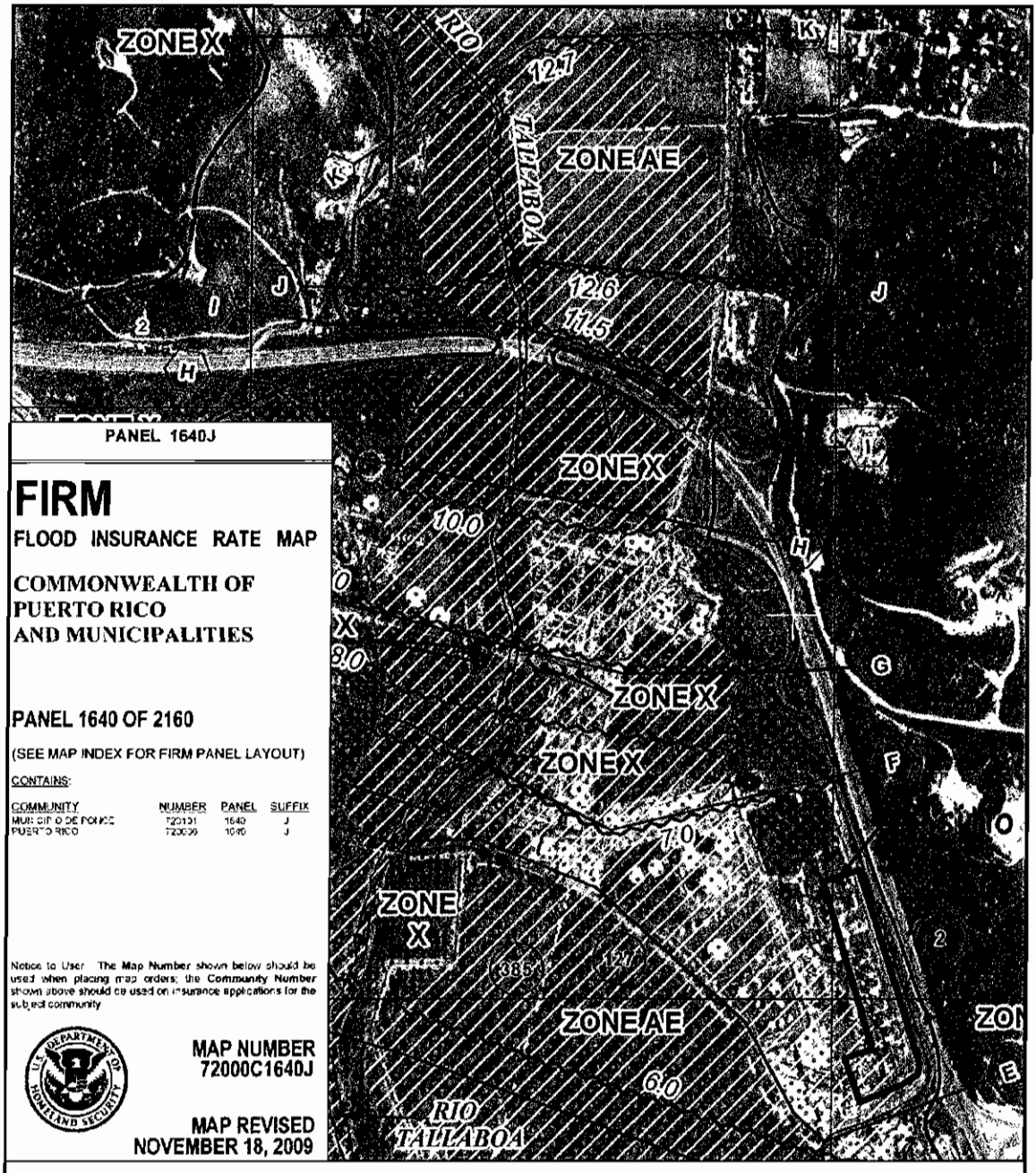
Ing. José Luis Rivera Figueroa
núm. de Licencia: 17818

PO BOX 786, Ensenada
Puerto Rico 00647
Direcc

JOSE L. RIVERA FIGUEROA
INGENIERO LICENCIADO
LIC # 17818
PUERTO RICO
SELLO PROFESIONAL AUTORIZADO

RECOMENDACION AMBIENTAL

DESMANTELAMIENTO DE LA ANTIGUAS FACILIDADES DE PUERTO RICO OLEFINS
Tallaboa Industrial Park Carr. 385 km 5.4
Bo. Tallaboa Poniente, Peñuelas Puerto Rico 00624



MAPA DE INUNDABILIDAD (FEMA)
HOJA: 72000C1640J

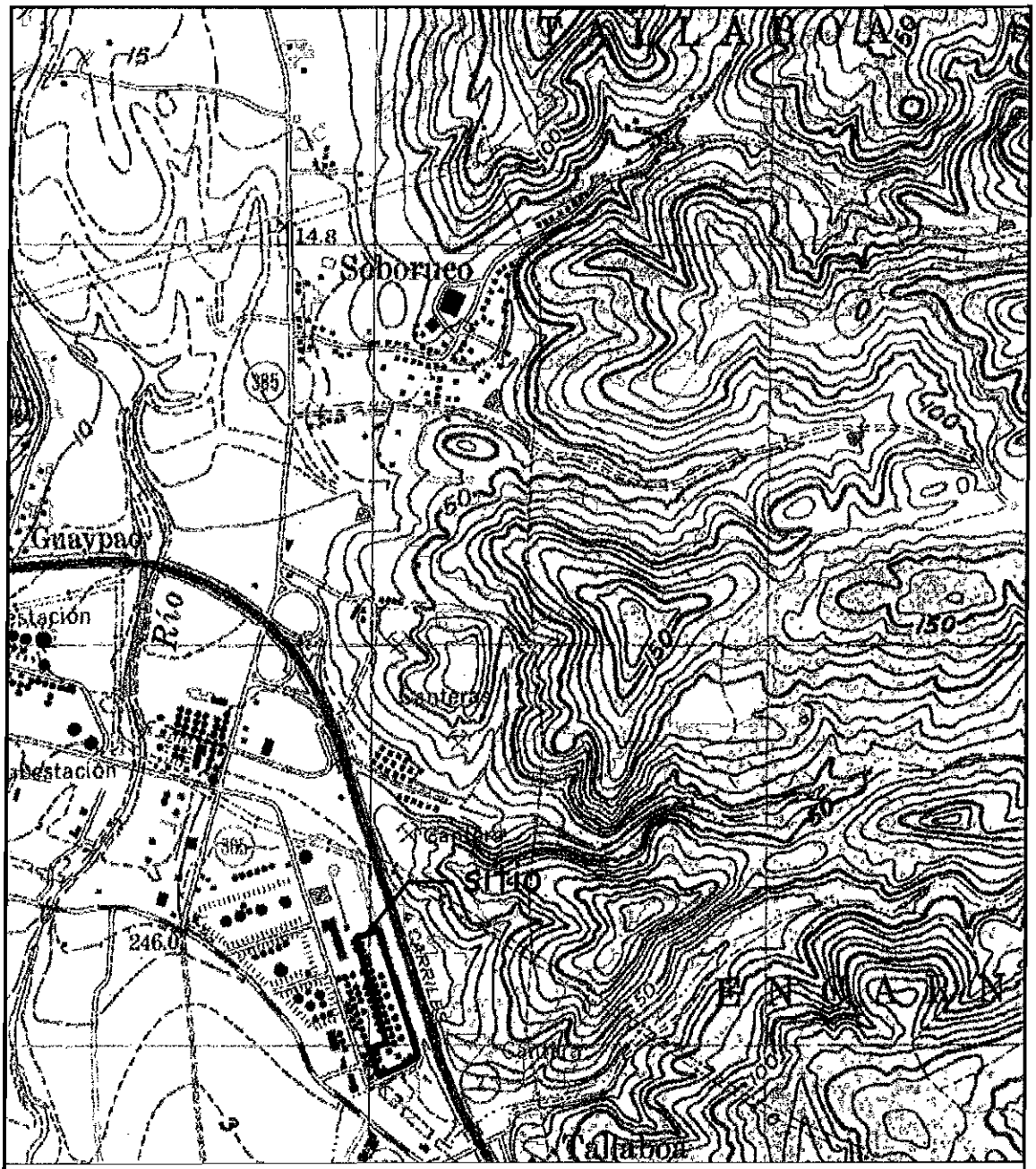
31. Anejos

A. Mapa Topográfico

Homeca Recycling Center Co. Inc.
PO BOX 231 Mercedita, PR 00715 • Fax. (800)491-1218 • Office: 787-689-6150
Mobile: 787-632-6173

RECOMENDACION AMBIENTAL

DESMANTELAMIENTO DE LA ANTIGUAS FACILIDADES DE
PUERTO RICO OLEFINS
Tallaboa Industrial Park Carr. 385 km 5.4
Bo. Tallaboa Poniente, Peñuelas Puerto Rico 00624



MAPA TOPOGRAFICO
X=169,155.1644 Y=218,911.7394

B. Licencia del Proyectista

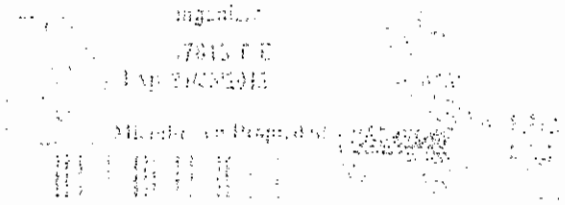
Homeca Recycling Center Co. Inc.
PO BOX 231 Mercedita, PR 00715 • Fax. (800)491-1218 • Office: 787-689-6150
Mobile: 787-632-6173

COLEGIO DE INGENIEROS

Y

AGRIMENSORES DE PUERTO RICO

Ing. Jose L. Rivera Figueroa





ESTADO LIBRE ASOCIADO DE PUERTO RICO
Departamento de Estado Secretaría Auxiliar de Juntas Examinadoras

Junta Examinadora de Ingenieros y Agrimensores de Puerto Rico

Apartado Postal 9023271, San Juan, PR 00902-3271 – Tel. 787-722-2122 – Ext. # 227; Fax: 787-722-4818
http://www.estado.gobierno.pr/ingenieros_y_agrimensores_puertorico.htm

SOLICITUD PARA RENOVACION DE LICENCIA DE INGENIERO (A) O AGRIMENSOR (A) LICENCIADO (A) O RENOVACION DE CERTIFICADO DE INGENIERO (A) O AGRIMENSOR (A) ASOCIADO (A)

[4] Ingeniero (a) (INL) [ ] Agrimensor (a) (AGL)
[ ] Ingeniero (a) Asociado (INA) [ ] Agrimensor (a) (AGA)

Nombre: Rivera Figueroa José L.
Apellido Paterno Apellido Materno Nombre Inicial

Dirección Postal: P.O. Box 786
Ensenada P.R. 00647

Teléfono Residencial: _____ Teléfono Oficina: _____

Seguro Social: 599-10-1427 Fecha de Nacimiento: 25/Julio/1975

Numero de Licencia: 17818 Fecha de Expiración: 30/Nov/2011

Cantidad de horas de Contacto: 16.5

Con la fe de que los datos y circunstancias personales antes consignadas son cierto y corresponden a mi persona suscribo el presente documento, estampado en el mismo mi firma y hoy 29 de Nov de 2011.

José L Rivera Figueroa
Firma

CERTIFICACION COLEGIO PROFESIONAL

El Colegio de Ingenieros y Agrimensores de Puerto Rico, CERTIFICA que el [4] Ingeniero(a), [ ] Agrimensor(a), [ ] Ingeniero(a) Asociado(a), [ ] Agrimensor(a) Asociado(a), José L. Rivera Figueroa licencia o certificado numero 17818 es miembro activo de este Colegio desde el 9 de septiembre de 2000, hoy 30 de noviembre de 2011, por lo que doy fe estampando el sello de Colegio de Ingenieros y Agrimensores de Puerto Rico.

D. Collazo Colegio Secretaria
Nombre Firma Posición

001042

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C. Documentos radicados en la PRE Consulta

Homeca Recycling Center Co. Inc.
PO BOX 231 Mercedita, PR 00715 • Fax. (800)491-1218 • Office: 787-689-6150
Mobile: 787-632-6173

Estado Libre Asociado de Puerto Rico

Oficina de Gerencia y Presupuesto

Recibo Oficial

Fecha de Recibo: 11-Mar-2011 Recibo Número: 2011111188

Cifra de Imposiciones: 1415 Año Económico: 2011

Número de Remesadora: 109 Mayra Lil C. Ruiz Oquendo Centro Recaudador: 01

Información de Recibo

Recibí De	Concepto	Importe	Valor Recibido
[illegible]	2011-gyue-21561	$125.00	1107711188

Total de Recibo: $125.00

CANCELADO

Fecha: 9/3/11

Firma:

Recibido Remesadora

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OGPe | GOBIERNO DE PUERTO RICO
Oficina de Gerencia de Permisos

Pre-Consulta

Favor de completar los encasillados según aplique.

¿Proyecto Existente?		Si		Número de Caso:
		No		

Tipo de Pre-Consulta		Consulta General	X	Consulta Proyecto

Detalle de Pre-Consulta

Detalle de la consulta*: Homeca Recycling esta interesa en obtener un permiso, si aplica, para desmantelar los componentes ferrosos y no-ferrosos de la antigua petroquimica PR.O lefin. Actualmente estamos mitigando material con contenido de asbesto en la islación. Trabajos para los cuales contamos con el persiso de JCA.

Cabida del solar o finca (metros cuadrados): 27,950.00 m2

Localización de la propiedad

Número de catastro*:	387000 008 11901	Código AEE:			
Tipo de suelo:		¿Está incluido dentro de un registro de zonas históricas?		Si	
				X	No
Cabida (área total) de la propiedad según la mensura (metros cuadrados)*:	27,950 m2	Cabida (área total) de la propiedad según la escritura (metros cuadrados)*:	27,950m2		

Punto de referencia de como llegar*: El proyecto esta ubicado dentro de las facilidades de Empresas de Gas.

Dirección física

Municipio*:	Penuelas	Sector o Urbanización*:	El Pueblito	Número o kilómetro*:	13.2
Calle o Carretera*:	127	Barrio*:	Tallaboa Poniente	Apartamento:	

Detalle del proyecto

Tipo de proyecto*		Residencial		Institucional	X	Industrial
		Comercial		Turistico		Otro (especifique):

¿El proyecto es de índole privada o pública?		Público	X	Privado		Ambas

Proyecto residencial

Tipo de proyecto residencial*:	n/a	Urbanización	n/a	Mixto
	n/a	Multifamiliar	n/a	Solares

Cantidad de unidades de uso residencial*	n/a	Área o cabida mínima de los solares de uso residencial (metros cuadrados)*:	
Área o cabida máxima de los solares de uso residencial (metros cuadrados)*:	n/a	Área bruta de construcción de uso residencial (pies cuadrados)*:	n/a

Proyecto comercial

Tipo de proyecto comercial*:	n/a	Centro comercial	n/a	Oficinas profesionales
	n/a	Locales comerciales	n/a	Solares

Cantidad de unidades de uso comercial*:	n/a	Área neta de venta (pies cuadrados)*:	
Área o cabida mínima de los solares de uso comercial (metros cuadrados)*:	n/a		

Proyecto institucional

Tipo de proyecto institucional*	n/a	Facilidades Medio-hospitalarias	n/a	Actividades docentes	n/a	Bibliotecas
	n/a	Otro (especifique):	n/a	Servicios públicos		

Cantidad de actividades de uso institucional*:	n/a		
Área o cabida mínima de los solares de uso institucional (metros cuadrados)*:	n/a	Área bruta de construcción para uso institucional (pies cuadrados)*:	n/a

Proyecto turístico

Tipo de proyecto turístico*	n/a	Villas turísticas	n/a	Condo-Hotel	n/a	Mixto
	n/a	Otro (especifique):	n/a	Hotel		

Cantidad de habitaciones de uso turístico*:	n/a		
Área o cabida mínima de los solares de uso turístico (metros cuadrados)*:	n/a	Área bruta de construcción para uso turístico (pies cuadrados)*:	n/a

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Oficina de Gerencia de Permisos

Pre-Consulta

Proyecto industrial					
Tipo de proyecto industrial*		Solares industriales		Edificios industriales	
	X	Otro (especifique): Desmantelacion Estructura		Almacén	
Cantidad de lotes y/o actividades industriales*:	1				
Área o cabida mínima de los solares de uso industrial (metros cuadrados)*:	27,950 m²	Área bruta de construcción para uso industrial (pies cuadrados)*:	27950m²		

Otro tipo de proyecto			
Indique el tipo de proyecto*:	Desmantelar Antiga Planta Petroquimica PROtefins		
Cantidad de unidades en el tipo de proyecto especificado*:	1 P		
Área o cabida mínima de los solares de uso industrial (metros cuadrados)*:	n/a	Área bruta de construcción para uso industrial (pies cuadrados)*:	n/a

Reunión		
Desea una reunión con algún gerente de OGPe o el director de la división ambiental (Las citas de urgencia tendrán un cargo adicional)*:		Si / No
	X	Si, con cita de urgencia (menos de 5 días)
Número de sesiones*:	1 / 2	

Sesión 1				
Personas convocadas*:		Gerente de edificabilidad y códigos		Gerente de salud y seguridad
		Gerente de Infraestructuras		Gerente de arqueología y conservación histórica
		Gerente de medioambiente	X	Director de evaluación ambiental
		Gerente de usos		Gerente de cambios de calificación

Sesión 2				
Personas convocadas*:		Gerente de edificabilidad y códigos		Gerente de salud y seguridad
		Gerente de Infraestructuras		Gerente de arqueología y conservación histórica
		Gerente de medioambiente		Director de evaluación ambiental
		Gerente de usos		Gerente de cambios de calificación

Los campos con (*) son requeridos y no podrán dejarse en blanco.

Cada sesión de Pre-Consulta incluye dos (2) gerentes de la división operacional deseada. Si interesa la presencia de mas gerentes se aplicara un cargo adicional de $125 por cada uno.

Manifiesto que la información proporcionada en esta solicitud es veraz y doy mi consentimiento para que sea verificada. Entiendo que cualquier información fraudulenta es motivo para cancelar esta solicitud.

Firma del Solicitante	5/3/2011 Fecha (día/mes/año)
Firma del Funcionario	Fecha (día/mes/año)

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MEMORIAL EXPLICATIVO

Nuestra firma Homeca Recycling Center Co. Inc. (HOMECA), es una empresa multidisciplinaria dedicada principalmente al reciclaje de metales ferrosos y no –ferrosos. HOMECA fue establecida hace más de diez (10) años como una pequeña facilidad de reciclaje y ha evolucionado hasta convertirse en uno de los Centros de Reciclaje de Metales más grandes de la Isla. Actualmente, contamos con cuatro (4) centros de acopio a través de toda la Isla: Ponce Playa, Ponce Mercedita, Caguas y Hormigueros; todos con endoso de la Administración de Desperdicios Sólidos (ADS) y permiso de Operación de la Junta de Calidad Ambiental (JCA).

En adición, HOMECA, lleva a cabo trabajos de desmantelamiento de estructuras con el propósito de reciclar sus componentes, esto a tenor con la Ley Numero 70 del 18 de septiembre de 1992, según enmendada, Ley para la Reducción y el Reciclaje de Desperdicios Sólidos en Puerto Rico de la Administración de Desperdicios Sólidos.

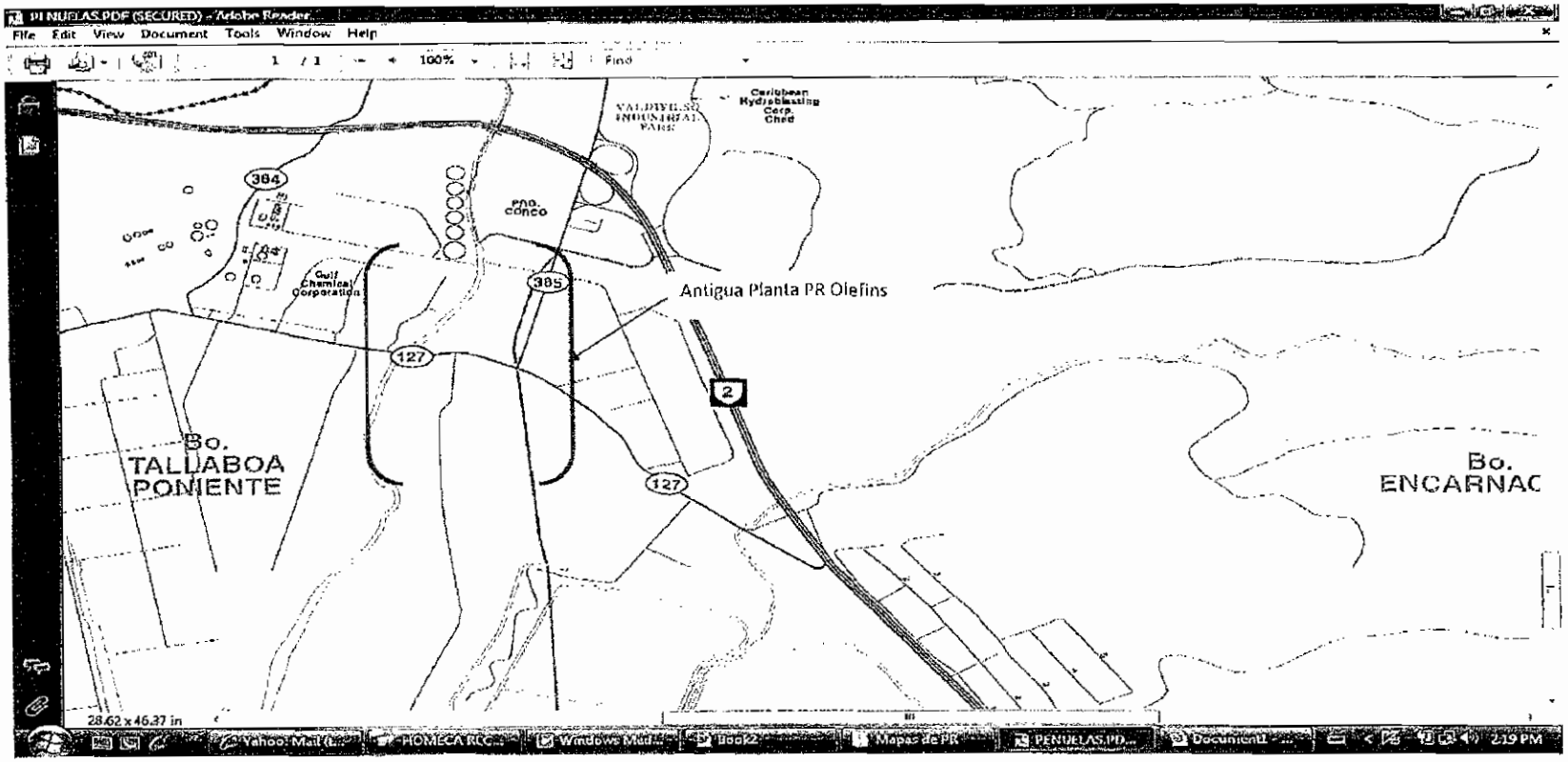
Actualmente, Tallaboa Industrial Park (TIP), dueño de las facilidades donde ubica la antigua planta petroquímica PR Olefins, está utilizando los servicios de nuestra empresa para mitigar la aislación con contenido de asbestos en las tuberías de la planta. Para estos trabajos se obtuvo un permiso general para mitigación de material con contenido de asbesto # PG-ASB-57-09-10-0125-RC otorgado por la JCA el pasado agosto de 2010. En adición, a los trabajos de mitigación, TIP, nos solicitó el desmantelar las estructuras compuestas por metales ferrosos y no-ferrosos, tales como: acero, acero inoxidable, bronce, cobre, aluminio, etc.

PO BOX 231 MERCEDITA, PR 00715-0231
TEL. (787) 689-6150 • FAX (800) 491-1218

Por esta razón es que nuestra empresa está sometiendo a su consideración esta pre-consulta con el fin de conocer que permisos, si alguno, necesitamos para estos trabajos.

Para su referencia adjuntamos a este memorial copia de un mapa de localización y foto de la estructura a trabajar localizada en la Carretera # 127 Km 13.2 Sector El Pueblito del Barrio Tallaboa Poniente del Municipio de Peñuelas, PR 00624.

Si usted tiene alguna pregunta o necesita información adicional al respecto, por favor no dude en comunicarse con la Ing. Luzdellys Echevarría al (787) 458-3737, con la Sra. Tamara Echevarría al 787-632-6173 o con nuestra oficina al 787-689-6150, a su conveniencia.



Homeca Recycling Center Co, Inc.

Plano de Localización

Proyecto:

Desmantelación Antiguas Facilidades PR Olefins.

Dirección

Bo. Tallaboa Poniente Carr. 385 Km. 5.4 int. Carr 127 Km. 31.2 Peñuelas, PR

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Estructuras a Mitigarse
Facilidades Antigua Planta PR Olefins

Estructuras a Mitigarse
Facilidades Antigua Planta PR Olefins

D. Comentarios de la OGPe

Homeca Recycling Center Co. Inc.
PO BOX 231 Mercedita, PR 00715 • Fax. (800)491-1218 • Office: 787-689-6150
Mobile: 787-632-6173



Portal de Servicios al Cliente › Servicios - Ponce: HOMECA RECYCLING

Fecha	[illegible]
Nombre	[illegible]
Correo Electronico	[illegible]
Servicio	[illegible]
Fax	[illegible]
Embargo	
Notas	[illegible]

[illegible]

POR FAVOR ANEJAR DOCUMENTOS PARA ESTUDIAR EL CASO//S.TORRES

[illegible] Unidad de Información necesarios para poder evaluar el proyecto bajo el Artículo 4(b)(7) de la Ley Sobre Política Pública Ambiental con Número de Caso [illegible] Regla 115 del Reglamento de Evaluación y Trámite de Documentos Ambientales [illegible] Calidad Ambiental. OGPe [illegible] 14 de abril de 2011

[illegible]

25 de abril de 2011

[illegible]

[illegible]

La División de Mejoramiento de Sitios, adscrita a la Oficina de Gerencia de Permisos (OGPe) recibe la solicitud de pre consulta para el proyecto de referencia. El proyecto propone realizar el acopio de llantas de la marca Planta de PR Llantero, el mismo está localizado, según los documentos en la carretera PR 127 Km 13.2 en el Barrio Bahiahonda Parcela [illegible] del Barrio Tallaboa Poniente, Municipio de Peñuelas y Guayanilla. La carretera debe ser corregida porque no es clara.

Antes de someter el proyecto a nuestra consulta y la misma esté en armonía con la política pública de la ADS, el proponente debe incorporar las recomendaciones hechas en esta misiva, y con ello dar cumplimiento a los requisitos en el manejo y disposición de los desperdicios sólidos y los materiales reciclables [illegible] de 16 de septiembre de 1992 Ley para la Reducción y Reciclaje de los Desperdicios Sólidos según enmendada, establece el desarrollo e implantación de estrategias y acciones dirigidas a minimizar la disposición de los desperdicios sólidos que generan [illegible] como parte de estas estrategias, se dispone, entre otras cosas, la prohibición para [illegible] de los desperdicios sólidos que generan [illegible] de [illegible] de Puerto Rico [illegible] de [illegible]

[illegible] para la Reducción, Reutilización y Reciclaje de Desperdicios Sólidos, Reglamento Núm. 7081, según enmendado el [illegible] de noviembre de 2010

El cumplimiento con estos y otros reglamentos y la documentación requerida por las demás agencias concernidas

[illegible]

1. Reglamento Conjunto de Permisos para Obras de Construcción y Uso de Terrenos en Puerto Rico de 29 de [illegible] de 2010
• Capítulo 9, Procedimientos Adjudicativos de las Peticiones.
Forma 9.3 Formulario de Declaraciones
[illegible] de Plan de Manejo
• Capítulo 46 Disposición Sólidos-Regla 4911-Disposición de Desperdicios. 49.1.1-49.1.6
• Capítulo 44 Norte, Poda y Reforestación Regla 4711 Disposición del Material Vegetativo [illegible] Sección 47.1.3 Alternativas Recomendadas [illegible] En el caso de [illegible] y poda se deberán presentar alternativas para el manejo y disposición del material vegetativo generado conforme el Capítulo 44 del Reglamento para la Reducción, Reutilización y el Reciclaje de los Desperdicios Sólidos en Puerto Rico, de 16 de mayo de 2003, según enmendado.

Los documentos presentados no aclaran si la acción propuesta va a ser en el sitio y después van a ser transportados los materiales recuperados del lugar a uno de los establecimientos de Homeca o se propone construir una facilidad permanente de la empresa en el lugar. Es importante obtener este dato de forma clara. Las recomendaciones emitidas aplican a los hechos presentados y evaluados al momento. La OGPe se reserva el derecho de revaluar y modificar los mismos en caso de surgir información adicional que demuestre que las condiciones han cambiado, o cuando los comentarios hayan sido emitidos bajo premisas falsas. Además se hace la salvedad de solicitar cualquier información adicional que entienda pertinente y que de conformidad con las leyes y reglamentaciones vigentes, garantice el interés público y la protección del ambiente. Contamos con su apoyo para lograr la meta de reducir el volumen de los desperdicios sólidos que se disponen en los SDS de la Isla, mediante el mercado de reciclaje, recuperación y reciclaje.

Si, NI NSR

Status	[illegible]
Status OGPe	
Status OGPe Legal	
Compañía	[illegible]
Dirección del Proponente	[illegible]
Pueblo del Proponente	[illegible]
Zip Code del Proponente	[illegible]
Teléfono del Proponente	[illegible]
Nombre del Proyecto	[illegible] Tallaboa Poniente, Km. 13.2 carr. 127
Pueblo del Proyecto	Peñuelas
Num Catastro	282-000-008-21-[illegible]
Coord X	
Coord Y	
Propósito de la Visita	Radicación
ProductosSIP	Pre-Consulta
Fecha de Solicitud	
Número de Caso de Referencia	
Municipio Autónomo	
Número de Caso del Municipio	
Datos Enviados por el Municipio	
Tipo de Permiso	[illegible]
Público o Privado	[illegible]
Clasificación	[illegible]
Generar Número de Caso	[illegible]
Número de Caso	[illegible]-PRE-00049
Acción Tomada	[illegible]

Asignado a	Sandra Torres Melendez
Status de Evaluación	En evaluación
Días desde radicación	10,779
Status Edificabilidad	
Status Infraestructura	
Status Medioambiente	En espera de información adicional del proponente
Status Usos	
Status Salud y Seguridad	
Status Arqueología	
Status DECA	Pendiente Evaluación
Status Calificación	En evaluación
Zona del Proyecto	
Tipo de Caso	
Costo Estimado - Inversión	
Empleos a crear (construcción)	
Fecha Notificación de Aprobación	
Fecha Expedición de Permiso	
Fecha de despacho (Secretaría)	
Categoría	Industrial
Origen	Presencial
Notas - División de Calificación	
Validación Polígono	Pendiente
Status JCA	
Fecha de inspección JCA	
Comentarios JCA	
Productos	Pre Elaborados
Siglas	H.R.
División	Todas
Término de Tiempo	45
Attachments	foto aerea 3.jpg foto aerea 1.jpg foto aerea 2.jpg 7611-PAE-4003.pdf FOTOS PIO CARIBE.pdf

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Last modified at 6/6/2011 2:40 PM by JPNET\A Ramos Rodriguez

Close

HOMECA RECYCLING

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DESMANTAL WORK PLAN

PART 1: RELATED DOCUMENTS AND CONDITIONS.

The general provisions of this work plan apply to the work specified in this section.

PART 2: DESCRIPTION OF WORK

The work includes all labor, materials, etc. necessary to dismantle and recycle all metals generated from the Antiguas Facilidades Puerto Rico Olefins. This project magnitude covers former Olefins location in Peñuelas Puerto Rico.The dismantle includes all precautionary measures required for the protection of existing and adjacent work and property. In general, dismantle consists of, but not necessarily limited to, the following:

A. Removal of existing structures metal frames and equipment items indicated to for recycling purposes.

B. Removal and protection of existing fixtures and equipment items indicated "salvage".

C. To a complete dismantle of all indicated metal structures, pipes, tanks valves and always protecting the existing areas to be conserved.

D. All dismantle work are going to be done with specialize equipment excavator with shear and grapples.

C. The dismantle activities will stars from one end of the plant east side to west side until completion.

D. All chimneys will laid down to ground using 45,000 ton grane and cut to small pieces for transportation

E. All scrap metal generated from the dismantle will be prepared in sizes of 4'x 2' on site for transportation on 45' containers to port.

F. Once finish dismantle all material generated that are not for recycle will be place on 20 yrd container and dispose of the as garbage to a regular landfill.

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Note: Before the dismantle work all asbestos materials will be removed in order to complied with all permits and regulations. Homeca must deliver the clearance laboratory results to a representative in the Air Department at EQB, main office in San Juan.

PART 3: SUBMITTALS

Homeca Recycling, Inc. will submit methods and sequence of operations for selective dismantle work to Owner's or his representative for review prior to commencement of work. Include coordination for shut-off, capping and continuation of utility services as required, together with details for dust and noise control protection.

PART 4: JOB CONDITIONS

1. Areas to be dismantled are unoccupied.

2. Condition of metals structure and frames: Owner assumes no responsibility for actual condition of items or structure to be dismantled.

3. Transport salvaged items from site as they are removed.

5. Protections: Provide temporary barricades and other forms of protection as required to protect Owner's personnel and general public from injury due to selective dismantle work.

6. Erect temporary covered passageways when necessary as required by authorities having jurisdiction.

7. Protect from damage existing finish work that is to remain in place and becomes exposed during dismantle operations.

8. Remove pertinent protections from completed work.

9. Damages: Conduct selective dismantles operations and debris removal in a manner to ensure minimum interference with roads, streets, walks, and other adjacent occupied or used facilities.

11. Do not close, block or otherwise obstruct streets, walks or other occupied or used facilities without written permission from authorities having jurisdiction. Provide alternate routes around closed or obstructed traffic ways if required by governing regulations.

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12. Utility Services: Maintain existing utilities indicated to remain, keep in service, and protect against damage during dismantle operations.

13. Environmental Controls: Use water sprinkling, temporary enclosures, and other suitable methods to limit dust and dirt rising and scattering in air to lowest practical level. Comply with governing regulations pertaining to environmental protection.

14. Do not use water when it may create hazardous or objectionable conditions such as flooding and pollution.

15. Protection of Existing Structure to Remain: The work of dismantle will be performed in such a manner that no portion of the structure to remain shall suffer damage or change except as may be necessary to connect new work to existing work.

16. Protection of Occupants of Existing Adjacent Buildings: The work of dismantle shall be executed in such a manner as to cause the least possible inconvenience to the surrounding premises shall be kept neat and clean to the satisfaction of the Owner.

18. In the event that the Contractor should encounter unforeseen conditions or utilities, which might be damaged by the work of dismantle; then he shall immediately notify the Owner conditions and shall suspend all dismantle work in the area affected until he receives written instructions from the Owner in regard to the action to be taken.

19. Salvageable Items: Carefully remove items indicated to be salvaged, and stored on the Owner's premises where indicated, unless otherwise directed.

PART 5: EXECUTION

1. Inspection: Prior to commencement of selective dismantle work, inspect areas in which work will be performed. Photograph existing conditions of structure surfaces, equipment or to surrounding properties which could be misconstrued as damage resulting from selective demolition work:

   File with Owner's Representative prior to starting work.

2. Preparation: Provide interior and exterior shoring, bracing or support to prevent movement, settlement or collapse of structures to be dismantle and adjacent facilities to remain.

3. Cease operations and notify the owner's Representative immediately if safety of structure appears to be endangered. Take precautions to

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support structure until determination is made for continuing operations.

4. Located, identify and stub off and disconnect utility services that are not indicated to remain.

PART 6: DISMANTLE

1. Method of Work: Perform selective dismantle work in a systematic manner.

2. Locate dismantle equipment throughout structure and promptly remove scrap to avoid imposing excessive loads.

3. Provide services for effective air and water pollution controls as required by local authorities having jurisdiction. Use water mist and other suitable methods to limit spread of dust and dirt. Comply with governing environmental-protection regulations.

4. For interior slabs on grade, they will remain.

5. Completely fill below-grade areas and voids resulting from dismantle work. Provide fill consisting of approved earth, recycled cement, gravel or sand, free of trash and debris, stones over 6" diameter, roots or other organic matter.

6. If unanticipated mechanical, electrical or structural elements which conflict with intended function or design are encountered, investigate and measure both nature and extent of the conflict. Submit report to Owner's Representative in written, accurate detail. Pending receipt of directive from Owner's Representative rearrange selective dismantle schedule as necessary to continue overall job progress without delay.

7. Disposal of Waste Materials: Remove debris, rubbish and other materials resulting from dismantle operations from the plant site. Transport and legally dispose of materials off site.

PART 7: RECYCLING MATERIALS

General: Separate recyclable dismantles material from other materials to the maximum extent possible. Separate recyclable materials by type.

1. Containers will be provided or other storage method approved for controlling recyclable materials until they are removed from project site.

2. Stockpile materials away from dismantle area.

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3. Store components off the ground and protect from weather.

4. Transport recyclable materials off Owners property to the port to his final destination.

.PART 8: DISPOSAL

1. All dismantle and recycled material will be transported by Homeca Recycling Inc.

2. Do not allow dismantle materials to accumulate on-site.

3. All material will be removed and transported in manner that will prevent spillage on adjacent surfaces and areas.

PART 9: CLEAN-UP AND REPAIR

1. Upon completion of work, remove tools, equipment and dismantle materials from the site. Remove pertinent protections and leave interior areas broom clean.

2. Repair dismantles performed in excess of that required. Return structures and surfaces to remain to condition prior to commencement of selective demolition work. Repair adjacent construction or surfaces soiled or damaged by selective dismantle work.

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LOCALIZATION PLAN

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SITE PLAN

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in coordination with JTF & Associates
consultants in environmental, safety & health engineering

Present this certificate to

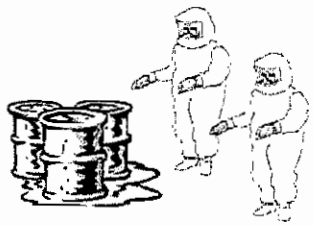


Miguel A. Cortés

for successful completion of the 8 hr annual refresher in:

"HAZARDOUS WASTE OPERATIONS & EMERGENCY RESPONSE"

OSHA 29 CFR 1910.120 STANDARD



October 27, 2011

José Torres Fontánez, PE
EHS consulting engineer

Luis A. Torres, PMA
OSHA Authorized Trainer

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Page 1 of 3 1539
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in coordination with JTF & Associates
consultants in environmental, safety & health engineering



Present this certificate to

Miguel A. Cortés

---

for successful completion of 2-hr training in:

"Permit- Required Confined Space"

OSHA 29 CFR 1910.146 STANDARD

October 27, 2011

Luis A. Torres Pérez, PMA
OSHA Authorized Trainer

Carlos A. Negrón
Operations Director

001065

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RX 6

Fernando L. Rodríguez, P.E. & Associates

Chemical/Environmental Engineering and Industrial Hygiene Consultants

Certificate

This is to certify that:

CARLOS E. OCASIO

ID # (4896)

Has completed course work and satisfactorily passed an examination. This course meets the criteria required by the RECAP of the Puerto Rico Environmental Quality Board requirements and TSCA Title II.

ASBESTOS IN BUILDINGS: INSPECTOR REFRESHER COURSE (4 HOURS)

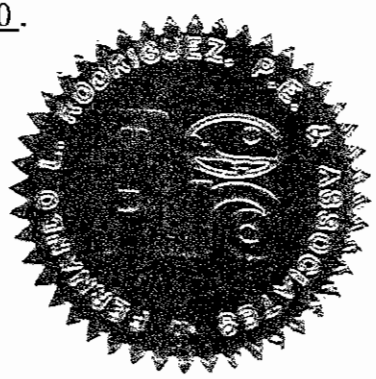
On this 4th day of November of 2010.

NOVEMBER 4, 2010
EXAMINATION DATE

NOVEMBER 3, 2011
EXPIRATION DATE

FERNANDO L. RODRÍGUEZ, P.E.
COURSE DIRECTOR

FLRA-2010-472A



Urb. Belíza, 1522 Bori St., Río Piedras, Puerto Rico 00927 Tel. (787)751-7810 Fax (787)751-8988
EQB SCHOOL CERTIFICATION NO. ASB-0806-0001

RX 6
Page 1,045 of 1,639
0010656

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Environmental Health & Safety Services

This Certifies That

Carlos E. Ocasio Feliciano

has attended and satisfactorily completed training on 10/15/11, and passed an examination covering the content of the asbestos accreditation under Section 206 of TSCA, 15 U.S.C. 2646 and PREQB Rule 422. In accordance with U.S.E.P.A. 40 C.F.R. 763 and PR-EQB, and in testimony whereof, we do confer this certificate at Vega Baja, Puerto Rico,
October 15, 2011.
Certificate expires 10/14/12.

AHERA Asbestos Inspector Refresher 4 Hours Training Course

Diomar J. Quintana, MPH
Instructor

Ellie Y. Rodríguez
School Administrator

Certificate: EA-ASB-1210-0004
EHSS-111015-VB-02
S.S.# XXX-XX-4896

ENVIRONMENTAL HEALTH & SAFETY TRAINING
PMB 142, 400 Calle Calaf, San Juan, PR. 00918 TEL.: (787) 855-1901

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Environmental Health & Safety Services

This Certifies That

Carlos Ocasio

has attended and satisfactorily completed training on 9/28/10, and passed an examination covering the content of the asbestos accreditation under Section 206 of TSCA, 15 U.S.C. 2646 and PREQB Rule 422. In accordance with U.S.E.P.A. 40 C.F.R. 763 and PR-EQB, and in testimony whereof, we do confer this certificate at Guayanilla, Puerto Rico, September 28, 2010.
Certificate expires 09/27/11.

AHERA Asbestos Supervisor Refresher 8 Hours Training Course

Diomar J. Quintana
Instructor

Ellie Y. Rodríguez
School Administrator

Certificate: EA-ASB-1207-0002
EHSS-100924-GU-06
S.S.# XXX-XX-4896

ENVIRONMENTAL HEALTH & SAFETY TRAINING
PMB 142, 400 Calle Calaf, San Juan, PR. 00918 TEL.: (787) 855-1901

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0010688
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Environmental Health & Safety Services

This Certifies That

Carlos E. Ocasio Feliciano

has attended and satisfactorily completed training on 10/01/11, and passed an examination covering the content of the asbestos accreditation under Section 206 of TSCA, 15 U.S.C. 2646 and PREQB Rule 422. In accordance with U.S.E.P.A. 40 C.F.R. 763 and PR-EQB, and in testimony whereof, we do confer this certificate at Vega Baja, Puerto Rico, October 01, 2011.
Certificate expires 09/30/12.

AHERA Asbestos Supervisor Refresher 8 Hours Training Course

Diomar J. Quintana, MPH
Instructor

Ellie Y. Rodríguez
School Administrator

Certificate: EA-ASB-1210-0004
EHSS-111001-VB-02
S.S.# XXX-XX-4896

ENVIRONMENTAL HEALTH & SAFETY SERVICES
PMB 142, 400 Calle Calaf, San Juan, PR. 00918 TEL.: (787) 855-1901

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30367

National Asbestos & Environmental Training Institute

CERTIFICATE OF COMPLETION

AHERA/EPA Accredited Per 40 CFR Part 763
Asbestos Accreditation under TSCA Title II

This is to certify that

Carlos E. Ocasio Feliciano

Successfully completed the course entitled

3-Day New York State/EPA/AHERA Asbestos Project Designer Program on October 12-14, 2010

Examination passed on October 14, 2010 *Expiration Date on October 14, 2011*

Doris L. Adler
President, NAETI

Per 10 NYCRR Part 73.2 (L) (1), DOH 2832 Certificate of Completion of Asbestos Safety Training is the only official record of training for N.Y.S. students.

Language: English ABIH 1 CM POINT

3321 Doris Avenue, Building B, Ocean, NJ 07712 **Phone (732) 531-5571** **Fax (732) 531-5956** **www.naeti.com**

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National Asbestos & Environmental Training Institute

CERTIFICATE OF COMPLETION

AHERA/EPA Accredited Per 40 CFR Part 763
Asbestos Accreditation under TSCA Title II

This is to certify that

Carlos E. Ocasio

Successfully completed the course entitled

1-Day New York State/EPA/AHERA Asbestos Project Designer Annual Refresher on September 20, 2011

Examination Passed on September 20, 2011 *Expiration Date: September 20, 2012*

Doris L. Adler
President, NAETI

Per 10 NYCRR Part 73.2 (L) (1), DOH 2832 Certificate of Completion of Asbestos Safety Training is the only official record of training for N.Y.S. students.

Language: English ABIH 1 CM POINT

3321 Doris Avenue, Building B, Ocean, NJ 07712 Phone (732) 531-5571 Fax (732) 531-5956 www.naeti.com

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ENVIRONMENTAL CONSULTING GROUP

Environmental, Health and Safety Specialists

We hereby certify that

Carlos E. Ocasio

has succesfully completed the requirements for the course

8 hour HAZWOPER/HAZCOM Training Course (29 CFR 1910.120/1200)

in San Juan, Puerto Rico
July 31, 1996

José Juan Orsini Hecht
General Manager

Certificate No.: **96-068**
Expiration Date: **July 30, 1997**

Page 1 of 1 63 RK 9

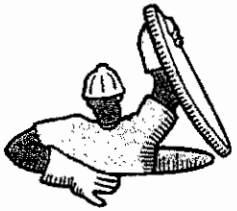
001072

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in coordination with JTF & Associates

consultants in environmental, safety & health engineering





Present this certificate to

Carlos E. Ocasio

for successful completion of 4-hr training in:

"Permit- Required Confined Space and Lockout.Tagout Procedures"

OSHA 29 CFR 1910.146 & 0.147 STANDARDS

February 18, 2011

José Torres Fontánez, PE, REM
Instructor/EHS Consulting Engineer

Luis A. Torres Pérez
OSHA Authorized Trainer

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001073

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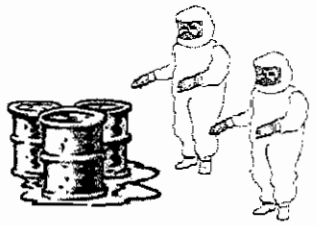
Present this certificate to

Carlos E. Ocasio

for successful completion of the 8 hr annual refresher in:

"HAZARDOUS WASTE OPERATIONS & EMERGENCY RESPONSE"

OSHA 29 CFR 1910.120 STANDARD



February 21, 2011

José Torres Fontánez, PE
EHS consulting engineer

Luis A. Torres, PMA
OSHA Authorized Trainer

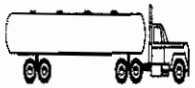
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Certificate that:

Carlos E. Ocasio

Has been properly trained in the Safe Transportation and Security of Hazardous Materials as per DOT 49 CFR Part 172.700 and 172.800 HM (126F, HM-232 and HM 181 Amendments)



November 3, 2011



José Torres Fontánez, PE, REM, CEA
Instructor/ EHS consulting engineer

Carlos A. Negrón
General Manager

Page 1,054 of 1,639
00107 RX 6

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in coordination with JTF & Associates
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Present this certificate to

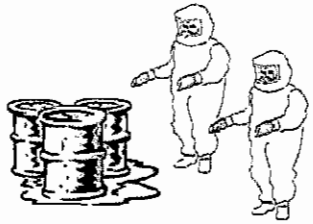


Carlos E. Ocasio

for successful completion of the 8 hr annual refresher in:

"HAZARDOUS WASTE OPERATIONS & EMERGENCY RESPONSE"

OSHA 29 CFR 1910.120 STANDARD



February 28, 2012

José Torres Fontánez, PE
EHS consulting engineer

Luis A. Torres, PMA
OSHA Authorized Trainer

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0010778
PX 6
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in coordination with **JTF & Associates**

consultants in environmental, safety & health engineering



Present this certificate to

Carlos E. Ocasio

for successful completion of 2-hr training in:

"Permit- Required Confined Space"

OSHA 29 CFR 1910.146 STANDARD

February 28, 2012

Luis A. Torres Pérez, PMA
OSHA Authorized Trainer

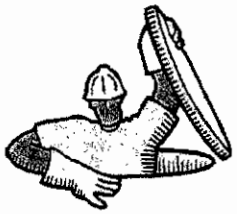
Carlos A. Negrón
Operations Director

001077

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Page 1,056 of 1,639

EMPRESAS ALTOL

in coordination with JTF & Associates
consultants in environmental, safety & health engineering



Present this certificate to

Carlos Ocasio

---

for successful completion of 2-hr training in:

"Permit- Required Confined Space"

OSHA 29 CFR 1910.146 STANDARD

October 27, 2011

Luis A. Torres Pérez, PMA
OSHA Authorized Trainer

Carlos A. Negrón
Operations Director

001078

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CERTIFICATE OF COMPLETION

This certificate is presented to

JOSE J. REYES RIVERA

***-**-3768

HAZARDOUSE WASTE OPERATION AND EMERGENCY RESPONSE

8 Hours Refresher Course

Has attended and satisfactorily complete and passed an examination in accordance with Osha 29 CFR 1910.120 in testimony whereof, we do confer this certificate at Altol Enterprises Facilities, *Sabanetas Industrial Park, Ponce Puerto Rico.*

Examination Date: May 23, 2012
Expiration Date: May 22, 2013
Certificate No: ATC 12-HW-1002

ALTOL TRAINING CENTER

Course Instructor & Administrator

Sabanetas Industrial Park Building 1380 M 1, 2, 3
Ponce, PR 00715
TEL. (787) 835-4242

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001079
CONFIDENTIAL & PRIVILEDGE

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.

Labra #1004 Street, 2nd. Floor, R. H. Todd Avenue, Santurce, Puerto Rico 00907.

This is to certify that

Carlos E. Ocasio

581-85-4896

Has Completed course work and satisfactorily passed an examination that meets all criteria required for EPA/AHERA (TSCA Tittle II) Approved Accreditation Training

ASBESTOS INITIAL TRAINING FOR WORKERS
32 HOURS

EQB School Number (EAASB10960005)

March 16- March 19, 1999
Course Dates

March 19, 1999
Examination Date

March 18, 2000
Expiration Date



PRT-AWC-7146
Certificate Number

José E. Maysonet
Course Intructor

CONFIDENTIAL & PRIVILEDGE

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00108 RX 6

THE ATMOSPHERIC ASSESSMENT GROUP

Environmental and Industrial Hygiene Scientists
EQB CERTIFIED SCHOOL No. EA-ASB-0607-0001

CERTIFICATE OF TRAINING

Miguel A. Cortés, 9731

For successfully participating in a training that fully complies with Environmental Protection Agency (AHERA & TSCA Title II) Regulation's Training, and the criteria required by the Regulation for the Control of Atmospheric Pollutants of the Puerto Rico Environmental Quality Board.

Asbestos Inspector Initial Course
24-Hours

CERTIFICATE No. TAAG-AsbInsp-IC-10-703

31 de Mayo-2 de Junio de 2010
Course Dates

2 de Junio de 2010
Examination Date

2 de Junio de 2011
Expiration Date

Adolfo Valdés Agrait, M. Sc.
School Administrator/Instructor

Condominio Irizarry, Suite 1B & 2B; Ave. Las Américas, Ponce, P. R. 00731
Tel (787) 842-8592; e-mail: taagroup@prtc.net

001081

THE ATMOSPHERIC ASSESSMENT GROUP

Environmental and Industrial Hygiene Scientists
EQB CERTIFIED SCHOOL No. EA-ASB-0607-0001

CERTIFICATE OF TRAINING

Ángel M. Rivera Guido, xxx-xx-3236

For successfully participating in a training for sampling and counting asbestos fibers. The course meets the criteria required by the Regulation and Control of Atmospheric Pollutants of the Puerto Rico Environmental Quality Board, and Resolution 99-43-2, Air Monitoring Specialist.

SAMPLING AND ANALYSIS OF ASBESTOS FIBERS
~ EQUIVALENT TO NIOSH 582 ~
40-Hour Course

CERTIFICATE No. TAAG-EM-IC-10-501

Adolfo Valdés Agrait, M. Sc.
School Administrator/Instructor

May 17th - 21st, 2010
Course Dates

May 21st, 2010
Examination Date

Condominio Irizarry Suite 1B & 2B; Ave. Las Américas, Ponce, P. R. 00731
(787) 842-8592 / (787) 504-0279 / e-mail:taagroup@prtc.net

001082

THE ATMOSPHERIC ASSESSMENT GROUP

Environmental and Industrial Hygiene Scientists
EQB CERTIFIED SCHOOL No. EA-ASB-0607-0001

CERTIFICATE OF TRAINING

David Joel Meléndez Vega, xxx-xx-1945

For successfully participating in a training for sampling and counting asbestos fibers. The course meets the criteria required by the Regulation and Control of Atmospheric Pollutants of the Puerto Rico Environmental Quality Board, and Resolution 99-43-2, Air Monitoring Specialist.

SAMPLING AND ANALYSIS OF ASBESTOS FIBERS
~ EQUIVALENT TO NIOSH 582 ~
40-Hour Course

CERTIFICATE No. TAAG-EM-IC-10-502

Adolfo Valdés Agrait, M. Sc.
School Administrator/Instructor

May 17th - 21st, 2010
Course Dates

May 21st, 2010
Examination Date

Condominio Irizarry Suite 1B & 2B; Ave. Las Américas, Ponce, P. R. 00731
(787) 842-8592 / (787) 504-0279 / e-mail:taagroup@prtc.net

001083

THE ATMOSPHERIC ASSESSMENT GROUP

Environmental and Industrial Hygiene Scientists
EQB CERTIFIED SCHOOL No. EA-ASB-0511-0002

CERTIFICATE OF TRAINING

Yazmin Rosado, xxx-xx-7646

For successfully participating in a training for sampling and counting asbestos fibers. The course meets the criteria required by the Regulation and Control of Atmospheric Pollutants of the Puerto Rico Environmental Quality Board, and Resolution 99-43-2, Air Monitoring Specialist.

SAMPLING AND ANALYSIS OF ASBESTOS FIBERS
~ EQUIVALENT TO NIOSH 582 ~
40-Hour Course

CERTIFICATE No. TAAG-EM-IC-11-503

Adolfo Valdés Agrait, M. Sc.
School Administrator/Instructor

12-16 de Septiembre de 2011
Course Dates

16 de Septiembre de 2011
Examination Date

Condominio Irizarry Suite 1B & 2B; Ave. Las Américas, Ponce, P. R. 00731
(787) 842-8592 / (787) 504-0279 / e-mail:taagroup@prtc.net

001084

THE ATMOSPHERIC ASSESSMENT GROUP

Environmental and Industrial Hygiene Scientists
EQB CERTIFIED SCHOOL No. EA-ASB-0511-0002

CERTIFICATE OF TRAINING

Samuel Padilla, xxx-xx-5713

For successfully participating in a training for sampling and counting asbestos fibers. The course meets the criteria required by the Regulation and Control of Atmospheric Pollutants of the Puerto Rico Environmental Quality Board, and Resolution 99-43-2, Air Monitoring Specialist.

SAMPLING AND ANALYSIS OF ASBESTOS FIBERS
~ EQUIVALENT TO NIOSH 582 ~
40-Hour Course

CERTIFICATE No. TAAG-EM-IC-11-502

Adolfo Valdés Agrait, M. Sc.
School Administrator/Instructor

12-16 de Septiembre de 2011
Course Dates

16 de Septiembre de 2011
Examination Date

Condominio Irizarry Suite 1B & 2B; Ave. Las Américas, Ponce, P. R. 00731
(787) 842-8592 / (787) 504-0279 / e-mail:taagroup@prtc.net

001085

THE ATMOSPHERIC ASSESSMENT GROUP

Environmental and Industrial Hygiene Scientists
EQB CERTIFIED SCHOOL No. EA-ASB-0511-0002

CERTIFICATE OF TRAINING

Rafael Rodriguez, xxx-xx-3744

For successfully participating in a training for sampling and counting asbestos fibers. The course meets the criteria required by the Regulation and Control of Atmospheric Pollutants of the Puerto Rico Environmental Quality Board, and Resolution 99-43-2, Air Monitoring Specialist.

SAMPLING AND ANALYSIS OF ASBESTOS FIBERS
~ EQUIVALENT TO NIOSH 582 ~
40-Hour Course

CERTIFICATE No. TAAG-EM-IC-11-501

Adolfo Valdés Agrait, M. Sc.
School Administrator/Instructor

12-16 de Septiembre de 2011
Course Dates

16 de Septiembre de 2011
Examination Date

Condominio Irizarry Suite 1B & 2B; Ave. Las Américas, Ponce, P. R. 00731
(787) 842-8592 / (787) 504-0279 / e-mail:taagroup@prtc.net

001086

THE ATMOSPHERIC ASSESSMENT GROUP

Environmental and Industrial Hygiene Scientists
EQB CERTIFIED SCHOOL No. EA-ASB-0511-0002

CERTIFICATE OF TRAINING

José J. Reyes Rivera, xxx-xx-3768

For successfully participating in a training for sampling and counting asbestos fibers. The course meets the criteria required by the Regulation and Control of Atmospheric Pollutants of the Puerto Rico Environmental Quality Board, and Resolution 99-43-2, Air Monitoring Specialist.

SAMPLING AND ANALYSIS OF ASBESTOS FIBERS
~ EQUIVALENT TO NIOSH 582 ~
40-Hour Course

CERTIFICATE No. TAAG-EM-IC-11-500

Adolfo Valdés Agrait, M. Sc.
School Administrator/Instructor

12-16 de Septiembre de 2011
Course Dates

16 de Septiembre de 2011
Examination Date

Condominio Irizarry Suite 1B & 2B; Ave. Las Américas, Ponce, P. R. 00731
(787) 842-8592 / (787) 504-0279 / e-mail:taagroup@prtc.net 001087

THE ATMOSPHERIC ASSESSMENT GROUP

Environmental and Industrial Hygiene Scientists
EQB CERTIFIED SCHOOL No. EA-ASB-0511-0002

CERTIFICATE OF TRAINING

Edgardo L. Cruz, 5963

For successfully participating in a training that fully complies with Environmental Protection Agency (AHERA & TSCA Title II) Regulation's Training, and the criteria required by the Regulation for the Control of Atmospheric Pollutants of the Puerto Rico Environmental Quality Board.

Asbestos Inspector Initial Course
24-Hours

CERTIFICATE No. TAAG-AsbInsp-IC-11-700

October 3-5, 2011
Course Dates

October 5, 2011
Examination Date

October 3, 2012
Expiration Date

Adolfo Valdés Agrait, M. Sc.
School Administrator/Instructor

Condominio Irizarry, Suite 1B & 2B; Ave. Las Américas, Ponce, P. R. 00731
Tel (787) 842-8592; e-mail: taagroup@prtc.net

THE ATMOSPHERIC ASSESSMENT GROUP

Environmental and Industrial Hygiene Scientists
EQB CERTIFIED SCHOOL No. EA-ASB-0511-0002

CERTIFICATE OF TRAINING

Margarita Irizarry, 2917

For successfully participating in a training that fully complies with Environmental Protection Agency (AHERA & TSCA Title II) Regulation's Training, and the criteria required by the Regulation for the Control of Atmospheric Pollutants of the Puerto Rico Environmental Quality Board.

Asbestos Inspector Initial Course
24-Hours

CERTIFICATE No. TAAG-AsbInsp-IC-11-701

October 3-5, 2011
Course Dates

October 5, 2011
Examination Date

October 3, 2012
Expiration Date

Adolfo Valdés Agrait, M. Sc.
School Administrator/Instructor

Condominio Irizarry, Suite 1B & 2B; Ave. Las Américas, Ponce, P. R. 00731
Tel (787) 842-8592; e-mail: taagroup@prtc.net

001089

CONFIDENTIAL & PRIVILEGED
RX 6
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ENVIRONMENTAL CONSULTING GROUP

Environmental, Health and Safety Specialists

We hereby certify that

Carlos E. Ocasio

has succesfully completed the requirements for the course

8 hour HAZWOPER/HAZCOM Training Course (29 CFR 1910.120/1200)

in San Juan, Puerto Rico
July 31, 1996

José Juan Orsini Hecht
General Manager

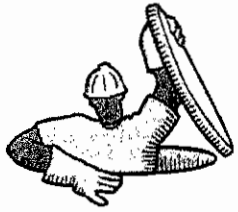
Certificate No.: **96-068**
Expiration Date: **July 30, 1997**

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001090

CONFIDENTIAL & PRIVILEDGE

EMPRESAS ALTOL

in coordination with JTF & Associates
consultants in environmental, safety & health engineering



Present this certificate to



Carlos E. Ocasio

for successful completion of 4-hr training in:

"Permit- Required Confined Space and Lockout.Tagout Procedures"

OSHA 29 CFR 1910.146 & 0.147 STANDARDS

February 18, 2011

José Torres Fontánez, PE, REM
Instructor/EHS Consulting Engineer

Luis A. Torres Pérez
OSHA Authorized Trainer

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EXHIBIT 6
0001091

CONFIDENTIAL & PRIVILEDGE

EMPRESAS ALTOL

in coordination with JTF & Associates
consultants in environmental, safety & health engineering

Present this certificate to

Carlos E. Ocasio

for successful completion of the 8 hr annual refresher in:

"HAZARDOUS WASTE OPERATIONS & EMERGENCY RESPONSE"

OSHA 29 CFR 1910.120 STANDARD



February 21, 2011

José Torres Fontánez, PE
EHS consulting engineer

Luis A. Torres, PMA
OSHA Authorized Trainer

Page 1,071 of 1,639 RX 6
001092
CONFIDENTIAL & PRIVILEDGE

EMPRESAS ALTOL

in coordination with JTF & Associates
consultants in environmental, safety & health engineering

Present this certificate to

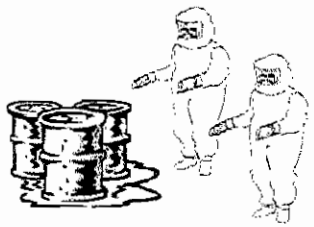


Carlos E. Ocasio

for successful completion of the 8 hr annual refresher in:

"HAZARDOUS WASTE OPERATIONS & EMERGENCY RESPONSE"

OSHA 29 CFR 1910.120 STANDARD



October 27, 2011

José Torres Fontánez, PE
EHS consulting engineer

Luis A. Torres, PMA
OSHA Authorized Trainer

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CONFIDENTIAL & PRIVILEDGE

EMPRESAS ALTOL

in coordination with JTF & Associates
consultants in environmental, safety & health engineering



Present this certificate to

Carlos Ocasio

for successful completion of 2-hr training in:

"Permit- Required Confined Space"

OSHA 29 CFR 1910.146 STANDARD

October 27, 2011

Luis A. Torres Pérez, PMA
OSHA Authorized Trainer

Carlos A. Negrón
Operations Director

001094

RX 6
Page 1,073 of 1,639

EMPRESAS ALTOL

in coordination with JTF & Associates
consultants in environmental, safety & health engineering





Certificate that:

Carlos E. Ocasio

Has been properly trained in the Safe Transportation and Security of Hazardous Materials as per DOT 49 CFR Part 172.700 and 172.800 HM (126F, HM-232 and HM 181 Amendments)



November 3, 2011



José Torres Fontánez, PE, REM, CEA
Instructor/ EHS consulting engineer

Carlos A. Negrón
General Manager

Page 1 of 1 1639
RX 6
0010095

EMPRESAS ALTOL

in coordination with JTF & Associates
consultants in environmental, safety & health engineering

Present this certificate to

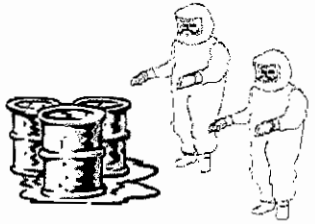


Carlos E. Ocasio

for successful completion of the 8 hr annual refresher in:

"HAZARDOUS WASTE OPERATIONS & EMERGENCY RESPONSE"

OSHA 29 CFR 1910.120 STANDARD



February 28, 2012

José Torres Fontánez, PE
EHS consulting engineer

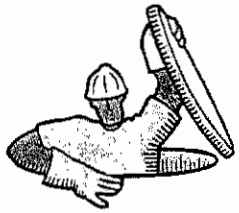
Luis A. Torres, PMA
OSHA Authorized Trainer

Page 1,075 of 1,639 PX 6
001096
CONFIDENTIAL & PRIVILEDGE

EMPRESAS ALTOL

in coordination with JTF & Associates

consultants in environmental, safety & health engineering



Present this certificate to

Carlos E. Ocasio

for successful completion of 2-hr training in:

"Permit- Required Confined Space"

OSHA 29 CFR 1910.146 STANDARD

February 28, 2012

Luis A. Torres Pérez, PMA
OSHA Authorized Trainer

Carlos A. Negrón
Operations Director

001097

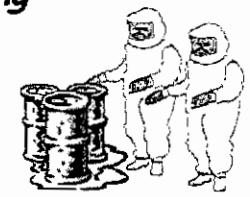
RX 6
Page 1,076 of 1,639

EMPRESAS ALTOL

in coordination with JTF & Associates
consultants in environmental, safety & health engineering

Present this certificate to





Carlos E. Ocasio

for successful completion of the initial 40 hr training in:

"HAZARDOUS WASTE OPERATIONS & EMERGENCY RESPONSE"

OSHA 29 CFR 1910.120 STANDARD

March 5, 7, 11, 13 & 19, 2013

José Torres Fontánez, PE
EHS consulting engineer

Maridaly Tollinchi
Human Resource Manager

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RX-6
001098

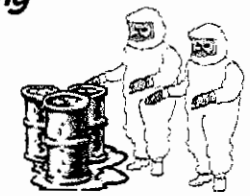
CONFIDENTIAL & PRIVILEDGE

EMPRESAS ALTOL

in coordination with JTF & Associates
consultants in environmental, safety & health engineering

Present this certificate to





José A. Santos

for successful completion of the initial 40 hr training in:

"HAZARDOUS WASTE OPERATIONS & EMERGENCY RESPONSE"

OSHA 29 CFR 1910.120 STANDARD

March 5, 7, 11, 13 & 19, 2013

José Torres Fontánez, PE
EHS consulting engineer

Maridaly Tollinchi
Human Resource Manager

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EX 6
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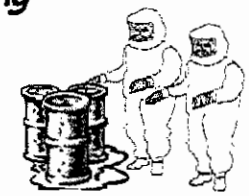
CONFIDENTIAL & PRIVILEDGE

EMPRESAS ALTOL

in coordination with JTF & Associates
consultants in environmental, safety & health engineering

Present this certificate to





Danny Mejías

for successful completion of the initial 40 hr training in:

"HAZARDOUS WASTE OPERATIONS & EMERGENCY RESPONSE"

OSHA 29 CFR 1910.120 STANDARD

March 5, 7, 11, 13 & 19, 2013

José Torres Fontánez, PE
EHS consulting engineer

Maridaly Tollinchi
Human Resource Mandger

Page 1,079 of 1,639
RY 6
0011009

CONFIDENTIAL & PRIVILEDGE

EDWIN D. ORTIZ, P.E. & ASSOCIATES
ENVIRONMENTAL CONSULTANTS & ENGINEERS

22 de octubre de 2012

Job: Procanbe

Sra. Tamara Echeverría Santiago
Homeca Recycling Certer Co., Inc.
PO Box 231
Mercedita, PR 00715

PROPUESTA POR SERVICIOS PROFESIONALES
DESMANTELAMIENTO ANTIGUA PUERTO RICO OLEFINS
PEÑUELAS, PUERTO RICO

Estimada señora Echeverría:

Nos complace mucho cotizarle nuestros servicios profesionales para la preparación de los siguientes permisos para el proyecto de demolición (desmantelamiento) de la Antigua Puerto Rico Olefins, ubicado en el Municipio de Peñuelas, los cuales son requeridos por la reglamentación de la Junta de Calidad Ambiental (**JCA**) y la Oficina de Gerencia de Permisos (**OGPe**).

1. Permiso General Consolidado (**PGC**), en conformidad con el Reglamento para el Trámite de Permisos Generales de la JCA, el cual incluye los siguientes permisos:

   - Permiso para el Control de la Erosión y la Prevención de la Sedimentación (**Permiso CES**), en conformidad con el Reglamento para el Control de la Erosión y la Prevención de la Sedimentación de la Junta de Calidad Ambiental (JCA).

   - Permiso de Fuente de Emisión (**PFE**), según requerido por el Reglamento para el Control de Contaminación Atmosférica de la JCA.

   - Permiso para una Actividad Generadora de Desperdicios Sólidos No Peligrosos (**Permiso DS-3**), según lo requiere el Reglamento para el Manejo de los Desperdicios Sólidos No Peligrosos de la JCA.

De acuerdo con la descripción del proyecto, el mismo no incluye movimientos de tierra, basado en esto, al proyecto le aplica el trámite de un **PGC que incluya solamente el Permiso DS-3**.

Ext Villa del Carmen 4354 Ave Constancia Ponce PR 00716 - 2143
Tel/Fax: (787) 290-1448 Cel: (787) 504-5461 E-mail: edwindortiz@gmail.com

Nuestros servicios incluyen, entre otras gestiones, lo siguiente:

1. Visitas de inspección al área del proyecto para recopilar información sobre las condiciones ambientales del lugar.

2. Visitas y/o reuniones con agencias con ingerencia en el proyecto para la obtención de información y documentos relacionados con la preparación y trámite de documentos y permisos.

3. Preparación y certificación (*P.E. Cetification*) de formularios, documentos y permisos.

4. Trámite y seguimiento de los permisos hasta la decisión final de la agencia correspondiente.

Honorarios profesionales:

- Permiso **PGC (DS-3)** ..... **$ 975.00**

Comentarios Adicionales (Generales):

1. Nuestros honorarios **no incluyen** cargos por radicación, sellos, impuestos de construcción u otros cargos relacionados con los requisitos de gobierno.

2. Conforme al Permiso PGC a ser expedido por la JCA para el proyecto, y según lo dispone la Regla 1213(F) del Reglamento para el Control de Erosión y Prevención de la Sedimentación (RCES), se deben someter a la Junta Informes Mensuales sobre la Implantación del Plan CES. **Entendemos que este proyecto no incluye inspecciones, ya que no le aplica un Permiso CES**. No obstante, se estas fueran requeridas, la realización de inspecciones, preparación y radicación ante la JCA de Informes Mensuales de Implantación del Plan CES tendrá un costo de **$250.00** por inspección y trámite de informe.

3. El cliente nos proveerá los siguientes documentos al comienzo del trabajo (según le sea posible): especificaciones [descripción detallada (Memorial Explicativo)] del proyecto; copia de planos (localización, esquemáticos, etc.); copia de estudios realizados; copia de permisos, endosos y/o documentos (si alguno) relacionados con el proyecto que hayan sido generados hasta el momento por agencias de gobierno; comunicaciones y cualquier otro documento relacionado con el trámite de permisos, etc.

4. Si las condiciones del proyecto cambiaran o si las agencias concernidas requirieran incluir en el PGE un Permiso CES y/o PFE, esta propuesta será ajustada para incluir dichos permisos, según aplique.

CONFIDENTIAL-PRIVILEGED

Método de Pago de Honorarios:

Se deberá someter un pago inicial equivalente al **50%** del costo del proyecto y el balance restante deberá ser pagado al someter los documentos ante la agencia correspondiente. Este procedimiento es requerido a todos nuestros clientes y sirve para iniciar los trámites según el itinerario a establecerse. Cheuques deberán se girados a favor de: ***Ing. Edwin D. Ortiz***

De estar de acuerdo con la descripción de servicios y los términos ofrecidos en esta propuesta, sírvase indicar su aceptación firmando la misma y devolviéndonosla. De existir algún inconveniente y necesitar discutir algún cambio en esta propuesta, favor de comunicarse con el que suscribe a su mejor conveniencia.

Agradecemos mucho su interés en nuestros servicios y esperamos continuar sirviéndoles. En caso de tener alguna duda o comentario, favor de comunicarse con nosotros a su mejor conveniencia.

Cordialmente,

Edwin D. Ortiz, PE

ACEPTACION

Aceptado a los 26 días del mes de octubre de 2012

Por : Tamara Echevarría
Nombre Firma

Posición : Coordinadora Permisos, ESHO.

Compañía: _____

Homeca Recycling Center
1575 Ave. Muñoz Rivera PMB 120
Ponce, PR 00717-0211

HOMECA RECYCLING

1575 AVE. MUÑOZ RIVERA
PMB 120
PONCE, PR 00717-0211

Purchase Order

Date	P.O. No.
3/3/2011	HRCI318

Vendor	Ship To
MARTEQ INC. NICHOLAS F MARQUEZ 7911 Moccasin Trail Drive Riverview, FL 33578-8612	Tallaboa Industrial Park Carr. 385 KM 0.4 Guayanilla, PR 00624 RE: February 25, 2010 Quote

Expected	Ship Via	Prepared By	Ordered By
3/4/2011	Your	TAMARA	LUZDELLYS

Qty	Unit	Description	Rate	JOB #	Rcv'd	Amount
1		Stamp R The initial installment will be due upon delivery of the desing and QC documentation package. The amount of the first installment will consist of the amount shown.	2,500.00	E4000	0	2,500.00
1		The second installment will be invoiced upon completion of the shop preparation and joint review visit that will include training and partial implementation.	3,000.00	E4000	0	3,000.00

Total	$5,500.00

1. Please send two copies of your invoice and include our PO No.

2. Enter this order in accordance with the prices, terms, delivery method, and specifications listed above.

3. Please notify us immediately if you are unable to ship as specified.

Authorized by:

Eng. Luzdellys Echevarria

Phone #	Fax #	E-mail
787-689-6150	787-259-9084	tamara@homecareecycling.com

001104

CONFIDENTIAL PRIVILEGED

RX 6
Page 1,083 of 1,639

MARTEQ Inc.
7911 Moccasin Trail Drive
Riverview, FL 33578-8612
(813) 671-9750
(914) 261-7493 MOB.
NICK.MARQUEZ@MARTEQ.COM

February 25, 2010

Mr. Rhett Castillo Gammill
HOMECA Recycling & Demolition Corp.
P.O. Box 231 Mercedita
Ponce, PR 00715
CASTILLORHETT@GMAIL.COM

Dear Mr. Castillo:

SHOP PREPARATION FOR NB JOINT REVIEW
NB "R" STAMP FOR REPAIRS & ALTERATIONS OF BOILER AND PRESSURE VESSELS

I am including an estimate of the possible expenses to consider in preparation for the Code Stamps referenced above. I am also describing briefly the scope of activities authorized under each Stamp as follows:

NB "R" STAMP – For repairs and alterations of boilers and pressure vessels. The scope of this stamp would allow you to do the type of repairs required for a boiler repair such as a PREPA boiler repair would require. Further, such repairs as a pharmaceutical concern would require for a pressure vessel, including design requirements for alterations of such pressure vessel, under the jurisdiction of the NATIONAL BOARD INSPECTION CODE (NBIC).

For boiler and pressure vessel repair and alteration you would be required to have access to the ASME Code book required for the applicable work at hand.

I am submitting the following proposal for your consideration and concurrence:

A. SCOPE OF WORK

1. DESCRIPTION

To prepare for HOMECA a Quality Control Manual complying with the applicable code requirements for the National Board R for repair and alterations to boilers and pressure vessels.

To prepare a demonstration package of a mock pressure vessel or boiler repair that will implement your Quality Program in all aspects applicable to the repair.

To prepare the design package you will require demonstrating the design conditions for the mock pressure vessel repair, including the design drawings.

I will submit fabrication instructions for the repair according to the design drawing. These instructions will be very graphic and easy to follow and implement by your personnel.

I will provide you a welding procedure specification (WPS) that you will be required to qualify and certify under the name of your Company, including the welder performing the work.

The scope of work described will be completed in two stages described in detail under IMPLEMENTATION.

Prior to the final Review itself, I will make a complete pre-Review audit to assure all conditions of implementation are acceptable, including the welding quality and finish of the demonstration item.

IMPLEMENTATION

DESIGN & FABRICATION DOCUMENTATION – The initial stage will consist of preparation of the documentation package that will include the following:

QUALITY CONTROL MANUAL

I will provide the Quality Control Manual and the corresponding QC forms to be used in implementation.

MARTEQ Inc.
7911 Maccasin Trail Drive (813) 671-9750
Riverview, FL 33578-8612 (914) 261-7493 MOB. NICK.MARQUEZ@MARTEQ.COM

DESIGN CALCULATIONS

This package contains the design conditions and calculations that will represent the demo. item as an authentic pressure vessel. The fabrication drawing will describe all the details of fabrication and welding that will be required by shop personnel to complete the vessel.

WELDING

The welding documentation (WPS, PQR and WPQ) required for the procedure and its qualification, including the welder.

QUALITY IMPLEMENTATION – After the documentation package has been forwarded to you, you will review the documentation to make sure it addresses correctly all administrative items regarding HOMECA, such as company name, mailing address, physical location, etc.

SHOP VISIT

Upon completing any changes to the QC Manual required resulting from your initial administrative review; I will visit your shop facility to conduct training of your personnel selected for this activity in the Quality Manual contents and requirements. – Please bear in mind that the Quality Manual is prepared to address only those phases of repair and alteration required by Code since all activities described therein will be considered auditable and come under unnecessary scrutiny of the jurisdiction.

Other processes or procedures you may wish to implement as organizational format or mandate should be prepared separate from this Quality Program to maintain the administrative confidentiality and exclusivity you may wish to observe.

The personnel training is more or less a guidance instruction to questions and answers that may arise during the Review. – In my experience, it has happened that the ASME/NB representative will direct relevant questions to shop personnel other than myself, including welding and fabrication questions.

Once the Joint Review date has been assigned, I will arrange to schedule myself and be at your facility one-week prior to the Review date to verify readiness. At this stage, all items of implementation addressed should have been concluded and anything pending will be completed at this time.

Prior to the Joint Review I will conduct a final detailed review of the implementation process to make certain we are ready for the Review.

2. **SPECIFICATION**

Implementation of your Quality Program will be according to ASME/NB Code, 2010 edition.

B. **QUOTE**

1. **RATES**

The itemized cost for the work described under **SCOPE OF WORK** shall be as follows:

a. **REPAIRS & ALTERATIONS ("R" STAMP ONLY) – PACKAGE RATE** — **$ 5,500.-**

THIS INCLUDES THE COMPLETE ACTIVITY AS PROPOSED UNDER THE SCOPE OF WORK FOR SHOP PREPARATION FOR NATIONAL BOARD (NB) REPAIRS & ALTERATIONS ONLY.

b. **OPTION** **$ 500.-**

If additional training or work outside of the Scope of Work is requested, or if I deem it necessary due to lacking in preparation readiness on the part of the client, it may be performed on a daily rate basis as shown.



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Riverview, FL 33578-8612 (914) 261-7493 MOB. NICK.MARQUEZ@MARTEQ.COM

INSTALLMENT	DUE	AMOUNT
FIRST	THE INITIAL INSTALLMENT WILL BE DUE UPON DELIVERY OF THE DESIGN AND QC DOCUMENTATION PACKAGE. THE AMOUNT OF THE FIRST INSTALLMENT WILL CONSIST OF THE AMOUNT SHOWN.	2,500.-
SECOND	THE SECOND INSTALLMENT WILL BE INVOICED UPON COMPLETION OF THE SHOP PREPARATION AND JOINT REVIEW VISIT THAT WILL INCLUDE TRAINING AND PARTIAL IMPLEMENTATION.	3,000.-

3. EXPENSES

The billable expenses shall include those incurred while providing the services as described herein. The expenses will include air and ground transportation, suitable lodging and meals. Any additional expenses incurred as required for implementation of the Quality System shall also be included.

Charges for these expenses shall be included in the invoice submitted for the respective period.

4. PAYMENT

The service charges will be payable in full net 30 days from date invoiced.

Services provided under the OPTION portion of the RATES section shall be invoiced independent of this schedule. Each installment will include the expenses incurred during that period.

MARTEQ Inc. is an accredited corporation registered in the State of New York and as such, not subject to any local jurisdictional withholding requirements on payment for services rendered. If additional information is required on this matter please contact this office for further supporting information.

C. GENERAL CONDITIONS

1. During the preparation process, in the event that I determine the preparation effort is lacking through oversight of the client and, in my estimation, the shop preparation activity is not at a state of readiness that would assure successful results in the review, I retain the option of recommending postponement of the review to allow additional time to finalize items pending or further preparation, as applicable.

   Additional service will be provided under item OPTION under the RATES section.

2. Any exceptions to this proposal shall be acceptable only if expressed in writing.

3. This proposal is good for forty-five (45) days from date of issue. Kindly contact this office beyond this period for updates.

Upon your review and agreement to these terms please submit your PURCHASE ORDER to denote acceptance. Kindly contact this office if you wish to discuss further any terms of this proposal. If you have any questions regarding this proposal or any questions otherwise, please do not hesitate to contact this office.

It is our intention to provide you quality service at your convenience.

Very truly yours,

Nicholas F. Marquez
Consultant

HOMECA 10225/nfm

MARTEQ Inc.
7911 Moccasin Trail Drive
Riverview, FL 33578-8612
(813) 671-9750
(914) 261-7493 MOB.
NICK.MARQUEZ@MARTEQ.COM

SCHEDULE OF EXPENSES

ACTIVITY	ITEM	DESCRIPTION		AMOUNT	SUBTOTAL
NATIONAL BOARD	JOINT REVIEW	AMOUNT TO BE DEPOSITED WITH NATIONAL BOARD		3,000.00	
	R STAMP CERT. FEE	CERTIFICATION FEE		600.00	
	STAMP	CHARGE FOR THE PHYSICAL STAMP		60.00	3,660.00
	R STAMP W/ASME	R STAMP REVIEW CONDUCTED BY ASME WHEN REVIEWING FOR FABRICATION STAMPS		1,220.00	1,220.00
ASME	CODE BOOKS	ASME II PART A	MATERIAL SPECIFICATIONS – FERROUS MATERIALS	620.00	
		ASME II PART B	MATERIAL SPECIFICATIONS – NONFERROUS MATERIALS	-	
		ASME II PART C	MATERIAL SPECIFICATIONS – WELDING & BRAZING	620.00	
		ASME II PART D	MATERIAL PROPERTIES	620.00	
		ASME I	POWER BOILERS	405.00	
		ASME/ANSI B-31.1	POWER PIPING	315.00	
		ASME V	NONDESTRUCTIVE EXAMINATION	450.00	
		ASME IX	WELDING & BRAZING SPECIFICATIONS	465.00	
		ASME VIII DIV 1	PRESSURE VESSELS	630.00	4,125.00
NATIONAL BOARD	CODE BOOKS	NBIC	NATL. BD. INSPECTION CODE BOOK	150.00	150.00
AUTHORIZED INSPECTION AGENCY (AIA)	AI SUPVSR AIS	AIS PARTICIPATION @ 880.- /DAY – 7 DAYS (INCLUDE PRE-REVIEW)		6,160.00	
	EXPENSES	EXPENSES TO BE INCURRED BY THE AIS REPRESENTATIVE IN THE CONDUCT OF A PRE-REVIEW AND PARTICIPATION IN THE FINAL REVIEW FOR SHOP IMPLEMENTATION (AMOUNT MAY BE REDUCED IF VISIT IS SHARED WITH ANOTHER HSB CLIENT SERVICED).		2,500.00	8,660.00
WELDING	PROCEDURE & WELDER QUAL.	AT LEAST ONE WELDING PROCEDURE MUST BE PREPARED AND QUALIFIED, INCLUDING THE WELDER PERFORMING THE PROCEDURE QUALIFICATION.		-	-
NONDESTRUCTIVE EXAMINATION	RT & PT EXAMINATION	THE APPLICANT MUST PRODUCE A DOCUMENTATION PACKAGE OF CREDENTIALS FROM A QUALIFIED NDE CONCERN AS PART OF THE IMPLEMENTATION REVIEW. THERE MAY NOT BE A CHARGE FOR THIS PACKAGE.		-	-
MARTEQ INC.	SHOP PREP.	SEE PROPOSAL			

NOTE. - THESE PRICE RATES, OUTSIDE THE MARTEQ EXPENSES, MAY VARY FROM THAT LISTED AND IT IS YOUR RESPONSIBILITY TO VERIFY THEIR ACCURACY BEFORE PROCEEDING WITH SHOP PREPARATION ACTIVITIES.

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Oficina del Gobernador
Junta de Calidad Ambiental

Área Control Contaminación de Terrenos

PERMISO DE OPERACIÓN

Esta Junta autoriza a la Dra. María E. Meléndez Altieri, alcaldesa del Municipio Autónomo de Ponce y dueña del Sistema de Relleno Sanitario, según la solicitud de permiso radicada, a operar la misma para la disposición final de desperdicios sólidos no peligrosos por un período de cinco (5) años. La fecha de vigencia comienza el 22 de noviembre de 2009 y expira el 22 de noviembre de 2014 .

Este permiso está condicionado a que la persona autorizada demuestre a satisfacción de esta Junta, que la operación de la instalación está y podrá permanecer en cumplimiento con todos los reglamentos aplicables y con Plan de Operación aprobado por esta Junta. La otorgación de este permiso conlleva la aceptación de las condiciones presentadas en el anejo que acompaña a este documento.

La Junta de Calidad Ambiental podrá suspender o revocar este permiso si se comprueba que se ha incurrido en alguna violación de las reglas o reglamentos vigentes, incluyendo las condiciones antes señaladas.

Número de Permiso : **IDF-58-0008**

Nombre de la Instalación : **Sistema de Relleno Saniatrio de Ponce**

Dirección Física : Avenida Baramaya Final, Bo. Cotorra, Ponce, P.R.

Dirección Postal : P.O. Box 7104, Ponce, P.R. 00732

Sra. Wanda García Hérnandez
Miembro Alterno

Ing. Angel O. Berríos Silvestre
Miembro Asociado

Lcdo. Pedro J. Nieves Miranda
Presidente

Dirección Física: Edificio Agencias Ambientales Cruz A. Matos,
Urb. San José Industrial Park, 1375 Avenida Ponce de León, San Juan, PR 00926-2604
Dirección Postal: Apartado 11488, San Juan, PR 00910
Tel. 787-767-8181 Fax 787-767-8118

REPUBLIC SERVICES, INC.

Republic Services, Inc.

18500 N. Allied Way, Phoenix, AZ 85054

SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile #	Expiration Date	
	4217111705	1/28/2014	

I. Decision Request: ☑ Initial ☐ Recertification ☐ Change

Disposal Facility: 4217 - Ponce Landfill

Generator Name: Antiguas Facilidades PR Olefins (Tallaboa Industrial Park)

Generator Site Address: Carr 127 KM 13.2 Bo. Tallaboa Poniente sector El P

City: Penuelas	County:	State: PR	Zip:

Name of Waste: F & NF Asbestos

Estimated Annual Volume: 3500 Cubic Yards

II. Special Waste Department Decision: ☑ Approved ☐ Rejected

Management Method(s): ☑ Landfill ☐ Solidification ☐ Bioremediation ☐ Transfer Facility

Problematic Special Waste according to Republic? ☐ Yes ☑ No

If yes, which one?

Approved by Special Waste Review Committee? ☐ Yes ☐ No ☑ Not Applicable

Precautions, Conditions or Limitations on Approval

Friable Asbestos must be packaged, labeled and shipped in accordance with all applicable regulations.

Special Waste Analyst Signature: _____ **Name (Printed):** RAYMOND RUTKOWSKI

Date: 2/7/2011

III. Facility Decision: ☑ Approved ☐ Rejected

Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: _____ **Name (Printed):** JOSE SOTO

Date: 2/7/2011

REPUBLIC SERVICES **EXPRESS WASTE PROFILE**

Requested Disposal Facility: 4217 Ponce LF PR

Waste Profile # 4217111705

Sales Rep #: 139

Saveable fill in form. Restricted printing until all required (yellow) fields are completed.

I. Generator Information

Generator Name: ANTIGUAS FACILIADES PR OLEFINS (TALLABOA INDUSTRIAL PARK)			
Generator Site Address: CARR 127 KM 13.2 BO. TALLABOA PONIENTE SECTOR EL PUEBLITO			
City: PEÑUELAS	County: USA	State: Puerto Rico	Zip: 00624
State ID/Reg No:	State Approval/Waste Code: (If applicable)		NAICS #.
Generator Mailing Address (If different): CARR 127 KM 13.2 BO. TALLABOA PONIENTE SECTOR EL PUEBLITO			
City: PEÑUELAS	County: USA	State: Puerto Rico	Zip: 624
Generator Contact Name: Tomas Garriga		Email:	
Phone Number: (787) 836-2000 Ext:		Fax Number: (787) 836-2026	

IIa. Transporter Information

Transporter Name: RE ENVIRONMENTAL GROUP		Contact Name: HECTOR RAMOS	
Transporter Address: PO BOX 479			
City: ARROYO	County: USA	State: PR	Zip: 00714
Phone Number:(787) 864-8855	Fax Number: (787) 864-8844	State Transportation Number: SR-58-0574	

IIb. Billing Information

Bill To: HOMECA RECYCLING CENTER CO		Contact Name: TAMARA ECHEVARRIA	
Billing Address: PO BOX 231		Email: tamara@homecarecycling.com	
City: MERCEDITA	State: Puerto Rico	Zip: 00715	Phone: (787) 689-6150

III. Waste Stream Information

Name of Waste: (Petroleum products-applies only to contaminated media and debris).			
☐ Diesel Fuel	☐ Weathered Wood	☐ Friable Asbestos	
☐ Home Heating Fuel #1-6	☐ RCRA Empty Containers	☐ Non Friable Asbestos	
☐ Kerosene	☐ Treated Medical Waste	☑ Friable and Non Friable Asbestos	
☐ Aviation Fuel	☐ Animal Carcass		
☐ Hydraulic Fluid	☐ Plant Trash		
☐ Unleaded Gasoline (UST Corrective Action)	☐ Meth Contaminated Debris		

Process Generating Waste: TSI Removal

Method of Shipment: ☐ BULK ☐ DRUM ☑ BAGGED ☐ OTHER:

Estimated Annual Volume: 3,500 Cubic Yards

Frequency: ☐ ONE TIME ☑ ANNUAL

IV. Certification

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true and accurate description of the waste material being offered for disposal. I further certify that by utilizing this profile, neither myself nor any other employee of the company will deliver for disposal or attempt to deliver for disposal any waste which is classified as toxic waste, hazardous waste or infectious waste, or any other waste material this facility is prohibited from accepting by law. Our company hereby agrees to fully indemnify this disposal facility against any damages resulting from this certification being inaccurate or untrue. I further certify that the company has not altered the form or content of this profile sheet as provided by Republic Services, Inc.

TOMAS GARRIGA
Authorized Representative Name/Title (Type or Print)

Authorized Representative Signature

ANTIGUAS FACILIDADES PR OLEFINS
Company Name

01/28/2011
Date

REV I

©Republic Services, May 2009

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GOBIERNO DE PUERTO RICO
OFICINA DEL GOBERNADOR
JUNTA DE CALIDAD AMBIENTAL

Oficina Regional de Ponce

PUERTO RICO VERDE

19 de junio de 2012

Sr. Carlos Sánchez Delgado
Presidente
Homeca Recycling Center, Inc.
PMB 120
1575 Ave. Muñoz Rivera
Ponce PR 00717-0211

Solicitud Permiso IP-57-0174-RP
Instalación de Procesamiento de Materiales Reciclables
(Metales Ferrosos y No Ferrosos)
Desmantelamiento Antigua PR Olefins
Carr. PR-127, Km. 19.1
Barrio Tallaboa Poniente
Peñuelas, Puerto Rico

Estimado señor Sánchez:

La Junta ha evaluado los documentos sometidos para otorgar el permiso mencionado en referencia y concluye que la misma cumple con las disposiciones de la Regla 642 del Reglamento para el Manejo de los Desperdicios Sólidos No Peligrosos. La aprobación de este permiso conlleva la aceptación, de parte del solicitante, de las condiciones establecidas por dicho reglamento.

Hemos preparado un Borrador de Permiso con una Hoja de Datos que describe el contenido de la documentación sometida y el Aviso Público correspondiente sobre la intención de otorgar el permiso.

Para la publicación del Aviso Ambiental es necesario que el proponente pague los gastos. En los próximos días usted debe recibir una llamada del Oficial de Prensa de esta Agencia, quien le informará los trámites a realizar para el pago y publicación del aviso en un periódico de mayor circulación en Puerto Rico.

Se le advierte que transcurridos diez (10) días de la publicación, deberá enviarnos el affidávit que emite el periódico.

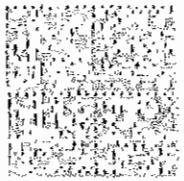
De surgir alguna duda o pregunta con relación a este asunto, puede comunicarse con la señora María del Carmen Figueroa, a su mejor conveniencia.

Cordialmente,

Luis Ernesto Torres Zamora
Director Regional

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Page 1,092 of 1,639

JUNTA DE CALIDAD AMBIENTAL
3199 AVE STGO DE LOS CABALLEROS
SUITE 404
PONCE PR 00716-2018



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$00.450
07/10/2012
US POSTAGE

00717 $0211

MULTI-MEDIA MANAGEMENT, LLC

Principal Sabana Street, Block B Sabana Gardens Industrial Park, Carolina, Puerto Rico 00983
P. O. Box 441 Carolina, Puerto Rico 00986 [illegible] (787) 330-0405

Propuesta

AFFIDAVIT

JUNTA DE CALIDAD AMBIENTAL
AVISO AMBIENTAL SOBRE INTENCION DE OTORGAR PERMISO PARA OPERAR UNA INSTALACION DE DESPERDICIOS SOLIDOS NO PELIGROSOS

Yo, Marisol Ramos Miranda, habiendo [illegible] el jurado no adelante declaro lo siguiente:

Que soy Oficial de Facturación de Multi-Media Management, [illegible] la cual se dedica a VOCEAR DE PUERTO RICO, la cual se dedica en San [illegible], Puerto Rico, [illegible] del mismo. Dicho anuncio [illegible] los siguientes días:

[illegible] de junio de 2012

se dio publicidad al aviso expedido por [illegible] Negociado de [illegible]

Sobre el cual [illegible] expido [illegible] se publicó el mismo [illegible] del mismo.

San Juan, Puerto Rico, a 29 de junio de 2012.

Marisol Ramos Miranda
[illegible]

Affidavit Num. 7770 del Notario.

Jurado y reconocido ante mí por Marisol Ramos Miranda mayor de edad, soltera, [illegible] Facturación de Multi-Media Management, [illegible] de Bayamón, a quien doy fe de conocer personalmente.

San Juan, Puerto Rico, a 29 de junio de 2012.

NOTARIO PUBLICO

RECIBIDO
JUNTA CALIDAD AMBIENTAL
JUL [illegible] 2012
Ofic. Regional de Ponce

RECIBIDO
JUNTA CALIDAD AMBIENTAL
SEP 10 2012
Ofic. Regional de Ponce

MULTI-MEDIA MANAGEMENT, LLC

Principal Sabana Street, Block B, Sabana Gardens Industrial Park, Carolina, Puerto Rico 00983
P. O. Box 441, Carolina, Puerto Rico 00986 • (787) 722-3086 telephone • (787)723-0400 fax

AFFIDAVIT

JUNTA DE CALIDAD AMBIENTAL
AVISO AMBIENTAL SOBRE INTENCION DE OTORGAR PERMISO PARA OPERAR UNA INSTALACION DE DESPERDICIOS SÓLIDOS NO PELIGROS

Yo, Marisol Ramos Miranda, habiendo prestado el juramento debido, declaro lo siguiente:

Que soy Oficial de Facturación de Multi-Media Management LLC, la cual le da servicios a EL VOCERO DE PUERTO RICO, el cual se publica en San Juan, Puerto Rico y que en las ediciones de este mismo diario correspondientes a los siguientes días:

29 de junio de 2012

se dio publicidad al aviso expedido por: Sr. Carlos O. Sánchez Delgado, Presidente de Homeca Recycling Center Co.

Sobre el asunto arriba mencionado, y copia del cual se une al presente affidávit para que forme parte del mismo.

San Juan, Puerto Rico, a 29 de junio de 2012.

Marisol Ramos Miranda
Oficial de Facturación

Affidavit Num. 7770 del Registro

Jurado y reconocido ante mí por Marisol Ramos Miranda, mayor de edad, soltera, Oficial de Facturación de Multi-Media Management LLC, vecina de Bayamón, a quien doy fe de conocer personalmente.

San Juan, Puerto Rico, a 29 de junio de 2012.

ROSIMAR RÍOS TORRES ABOGADA ♦ NOTARIA

NOTARIO PUBLICO

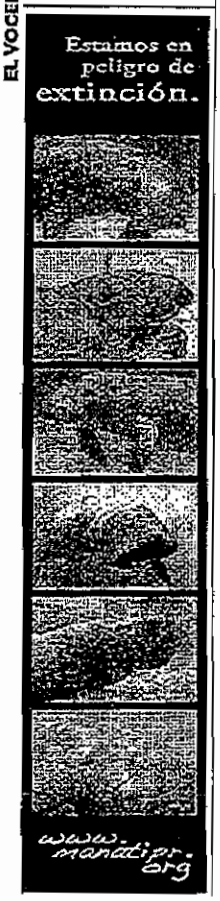
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SEP 19 2012
Ofic. Regional de Ponce

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NOTA ACLARATORIA

EN EL SHOPPER DE SUPERMERCADOS MR. SPECIAL TITULADO "ARTÍCULOS CANDENTES DE VERANO" CON FECHA DE SALIDA DEL 29 DE JUNIO AL 11 DE JULIO DE 2012, LAS ZUCARITAS KELLOGG'S DE 16.6 OZ. Y LOS CORN FLAKES KELLOGG'S DE 12.9 OZ. CON PRECIO ESPECIAL DE 2/$5.00 NO ESTARÁN DISPONIBLES POR PROBLEMAS DE SUPLIDOR LAMENTAMOS LOS INCONVENIENTES.



GOBIERNO DE PUERTO RICO
OFICINA DEL GOBERNADOR
JUNTA DE CALIDAD AMBIENTAL
Oficina Regional de Ponce

AVISO AMBIENTAL

SOBRE INTENCIÓN DE OTORGAR UN PERMISO PARA OPERAR UNA INSTALACIÓN DE DESPERDICIOS SÓLIDOS NO PELIGROSOS

El Sr. Carlos O. Sánchez Delgado, Presidente de la empresa Homeira Recycling Center Co., la cual realizará las obras de Desmantelamiento de la Antigua PR Olefins, ha sometido en la Junta de Calidad Ambiental una solicitud de permiso para operar una instalación de procesamiento (desmontar, cortar, y llenar contenedores para su exportación) de desperdicios sólidos no peligrosos (metales ferrosos y no ferrosos), provenientes del proyecto antes mencionado.

Luego de realizada la evaluación de los documentos sometidos, esta Junta tiene la intención de emitir el permiso.

El Reglamento para el Manejo de los Desperdicios Sólidos No Peligrosos, establece en el Capítulo IX el requisito de solicitar un permiso como condición previa a la operación de una instalación de desperdicios sólidos no peligrosos, el cual es aplicable a dueños u operadores. La Regla 649 del mencionado capítulo requiere la publicación de este Aviso y regula la celebración de Vistas Públicas, las cuales podrían ser efectuadas de considerarse necesarias por esta Junta, o por peticiones durante el período comprendido para comentarios.

Copia de la solicitud de permiso, al igual que el Borrador de Permiso y otros documentos relevantes al caso, están a la disposición del público para ser examinados en la Oficina Regional de Ponce de la Junta de Calidad Ambiental, ubicada en el Edificio Centro de Distribución Ste. 404, Ave. Santiago de los Caballeros, Ponce, de 8:00 A.M. a 4:30 P.M., de lunes a viernes.

Este anuncio se publica conforme a lo requerido por la Ley sobre Política Pública Ambiental, Ley 416 del 22 de septiembre de 2004. El costo del Aviso Ambiental es sufragado por la entidad peticionaria.

Las partes interesadas o afectadas, pueden someter sus comentarios por escrito al señor Luis Ernesto Torres Zamora, Director de la referida oficina, no más tarde de treinta (30) días a partir de la publicación de este Aviso.

Lcdo. Pedro J. Nieves Miranda
Presidente
Junta de Calidad Ambiental

Autorizado por la Comisión Estatal de Elecciones CEE-C-13-015

ESTADO LIBRE ASOCIADO DE PUERTO RICO
LEGISLATURA MUNICIPAL DE SAN GERMÁN
Apartado 1258, San Germán, P.R. 00683 (787) 892-2835

ORDENANZA NÚM. 44 SERIE 2011-2012

"DE LA LEGISLATURA MUNICIPAL DE SAN GERMÁN, PUERTO RICO, PARA DESIGNAR UN ÁREA PROHIBIENDO EL ESTACIONAMIENTO FRENTE A LA ENTRADA AL GARAJE DE LA RESIDENCIA DEL SEÑOR ROALDO PABÓN AYALA, EN LA CALLE MANILA NÚMERO 53 DE ESTE MUNICIPIO DE SAN GERMÁN, POR SER ENTRADA A GARAJE DE PERSONA CON IMPEDIMENTOS, Y PARA OTROS FINES"

ORDENANZA NÚM. 45 SERIE 2011-2012

"DE LA LEGISLATURA MUNICIPAL DE SAN GERMÁN, PUERTO RICO, PARA DESIGNAR UN ÁREA PROHIBIENDO EL ESTACIONAMIENTO FRENTE A LA ENTRADA A LA MARQUESINA DE LA RESIDENCIA DEL SEÑOR MONSERRATE ANTONIO MALDONADO FIGUEROA EN LA URBANIZACIÓN LA MONSERRATE NÚMERO 17, DE ESTE MUNICIPIO DE SAN GERMÁN, POR SER ENTRADA A MARQUESINA DE PERSONA CON IMPEDIMENTOS, Y PARA OTROS FINES"

ORDENANZA NÚM. 46 SERIE 2011-2012

"DE LA LEGISLATURA MUNICIPAL DE SAN GERMÁN, PUERTO RICO, PARA DESIGNAR UN ÁREA PROHIBIENDO EL ESTACIONAMIENTO FRENTE A LA ENTRADA A LA MARQUESINA DE LA RESIDENCIA DE LA SEÑORA ESTHER M. RIVERA LUGO EN LA URBANIZACIÓN RIVERSIDE CALLE L-9, DE ESTE MUNICIPIO DE SAN GERMÁN, POR SER ENTRADA A MARQUESINA DE PERSONA CON IMPEDIMENTOS, Y PARA OTROS FINES"

Violadores de cualquiera de estas Ordenanzas serán penalizados con multas por la cantidad de doscientos cincuenta ($250.00) dólares y cualquier persona denunciada que estando en haber incurrido en las violaciones establecidas en las mismas podrá recurrir mediante recurso de revisión conforme a la Ordenanza Núm.58, Serie 2006-2007, que crea el Tribunal Administrativo Municipal y su Reglamento.

ORDENANZA NUM. 47 SERIE 2011-2012

"DE LA LEGISLATURA MUNICIPAL DE SAN GERMÁN, PUERTO RICO, PARA REGLAMENTAR Y REGULAR EL LIMITE DE VELOCIDAD VEHICULAR EN LA CALLE ALEJANDRO (ITALIANO) CUZMÁN, DESDE LA AVENIDA LOS ATLÉTICOS HASTA LAS CALLES DE LA URBANIZACIÓN ARQUELIO TORRES, Y PARA OTROS FINES"

Toda persona que maneje un vehículo de motor a exceso de la velocidad máxima permitida violando las disposiciones de esta Ordenanza, incurrirá en falta administrativa y será sancionado con multa conforme a las disposiciones de la Ordenanza Número 13, Serie 1976-1977, según enmendada y la Ordenanza Número 43, Serie 2010-2011, que recoge las disposiciones de la Ordenanza Número 2, Serie 2005-2006.

Toda persona denunciada por infringir la presente Ordenanza podrá recurrir de la misma mediante recurso de revisión, conforme a las disposiciones de la Ordenanza Número 58, Serie 2006-2007 que crea el Tribunal Administrativo Municipal.

ORDENANZA NÚM. 48 SERIE 2011-2012

"PARA ENMENDAR LA ORDENANZA NÚM. 20, SERIE 2010-2011, SEGÚN ENMENDADA POR LA ORDENANZA NÚMERO 43 SERIE 2010-2011 Y POR LA ORDENANZA NÚMERO 28, SERIE 2011-2012 QUE ESTABLECE UNA AMNISTÍA DE SOLARES EN USUFRUCTO PROPIEDAD DEL MUNICIPIO, PENALIDADES Y RECARGOS ACUMULADOS A TODO AQUEL USUFRUCTUARIO O POSEEDOR DE HECHO, ARRENDATARIO, OCUPANTE O INQUILINO DEL SOLAR DE QUE TRATE, QUE ADQUIERA MEDIANTE COMPRAVENTA O QUE NO ADQUIERA EL SOLAR MEDIANTE COMPRA, PERO PAGUE DEUDAS ATRASADAS DE ARRENDAMIENTO DE USUFRUCTO, SEGÚN SEA EL CASO, EN SU SECCIÓN SEGUNDA, Y PARA OTROS FINES."

Enmendar la Ordenanza Núm. 20, Serie 2010-2011, según enmendada, en su Sección 2da, extendiendo el término hasta el 31 de diciembre de 2012.

Estas Ordenanzas fueron aprobadas por la Legislatura Municipal el día, 6 de junio de 2012 y por el Alcalde, el día, 7 de junio de 2012.

Las mismas comenzarán a regir diez (10) días después de su publicación mediante el presente edicto.

ORDENANZA NÚM. 53 SERIE 2011-2012

"PARA AUTORIZAR LA CELEBRACIÓN DE LAS FIESTAS DE PUEBLO DEL MUNICIPIO AUTÓNOMO DE SAN GERMÁN, FIJAR LAS FECHAS DE SU CELEBRACIÓN PARA AUTORIZAR AL ALCALDE A ARRENDAR LOS SITIOS PÚBLICOS PARA LA INSTALACIÓN DE ATRACTOS DE DIVERSIÓN Y FICAS, OPERADOS MEDIANTE LA EXTRACCIÓN DE BOLAS E HIPÓDROMOS DE CABALLITOS IMPULSADOS POR MANIVELAS Y PARA LA REGLAMENTACIÓN DEL FUNCIONAMIENTO DE DICHAS FICAS, Y PARA OTROS FINES"

La violación de cualesquiera de las disposiciones de esta Ordenanza, para la cual no se haya provisto por Ley o por esta Ordenanza sanción alguna, será castigada con multa no mayor de doscientos cincuenta dólares ($250.00), o cárcel por un término no mayor de quince días o ambas penas a discreción del Tribunal.

Esta Ordenanza fue aprobada por la Legislatura Municipal el día, 12 de junio de 2012 y por el Alcalde, Hon. Isidro Negrón Irizarry, el día, 13 de junio de 2012.

La misma comenzará a regir diez (10) días después de su publicación mediante el presente edicto.

Cualquier persona interesada podrá obtener copia certificada del texto completo de las mismas en la Oficina de la Secretaría de la Legislatura Municipal mediante el pago de los derechos correspondientes.

JAMILET RIVERA MORALES
SECRETARIA
LEGISLATURA MUNICIPAL
APROBADO POR LA COMISIÓN ESTATAL DE ELECCIONES CEE-C-12-127

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Ofic. Regional de Ponce

HOMECA RECYCLING Inc.
Environmental, Coating and Demolition Services

FILE COPY

25 de mayo de 2012

RECIBIDO
JUNTA CALIDAD AMBIENTAL
MAY 25 2012
Ofic. Regional de Ponce

Luis Ernesto Torres Zamora
Director Regional de Ponce
Junta de Calidad Ambiental
3199 Ave. Santiago de los Caballeros
Suite 404
Ponce, PR 00716-2018

RE: Solicitud Permiso DS2 PR Olefins

Estimado Sr. Torres:

Según requerido para completar la solicitud del permiso de referencia le incluimos:

- Copia del Endoso Final de ADS para los trabajos
- Carta original del comprador de los metales

Esperamos esta información pueda ser evaluada con la mayor brevedad posible. Cualquier información adicional no dude en comunicarse con una servidora a su conveniencia al 787-632-6173.

Cordialmente,

Tamara Echevarria Santiago
Oficial de Cumplimiento Ambiental y Permisos
tamara.homeca@gmail.com

AUTORIDAD DE
DESPERDICIOS SÓLIDOS
GOBIERNO DE PUERTO RICO

VERDE

Sr. Antonio Ríos Díaz
Director Ejecutivo

23 de mayo de 2012

RECIBIDO
JUNTA CALIDAD AMBIENTAL
MAY 25 2012
Ofic. Regional de Ponce

Sr. Carlos Sánchez Delgado
P. O. Box 231
Mercedita, Puerto Rico 00715-0231

Estimado señor Sánchez Delgado:

Re: Solicitud de Endoso – Homeca Recycling
Permiso Para Operar Instalación de Desperdicios Sólidos
Desmantelamiento de las antiguas instalaciones de PR Olefins
Guayanilla, Puerto Rico

La Autoridad de Desperdicios Sólidos (Autoridad, ADS), recibió una carta junto a otros documentos relacionados con el caso de referencia. Esto, con el propósito de agenciar un endoso solicitado por la Junta de Calidad Ambiental (JCA), como parte del proceso de obtención del Permiso para Operar una Instalación de Desperdicios Sólidos No Peligrosos (Permiso DS-2). Homeca Recycling, es una empresa dedicada al recibo, compra, procesamiento y exportación de metales ferrosos y no ferrosos con cuatro (4) centros de acopio a través de la Isla: Ponce Playa, Ponce Mercedita, Caguas y Hormigueros. La misma, llevará a cabo el desmantelamiento y disposición de las estructuras de metal que componen las antiguas instalaciones de PR Olefins, ubicadas en el Tallaboa Industrial Park, Carretera PR-127, Km 19.1, Sector El Pueblito, Barrio Tallaboa Poniente del Municipio de Peñuelas. La Oficina de Gerencia de Permisos, evaluó el documento ambiental de la actividad a realizarse y otorgó el 30 de marzo de 2012, la certificación de cumplimiento con el Artículo 4B (3), a tenor con las disposiciones establecidas en la Ley Sobre Política Pública Ambiental, Ley Núm. 416 de 22 de septiembre de 2004, según enmendada.

Luego de evaluar la solicitud, revisar el expediente y con la información disponible al momento, la ADS determinó que las actividades a ser efectuadas por Homeca Recycling, son cónsonas y no tienen aspectos contrarios a la política pública de esta Autoridad. Por consiguiente, y a tenor con lo dispuesto en el "Reglamento para la Reducción, Reutilización y el Reciclaje de los Desperdicios Sólidos en Puerto Rico", según enmendado (Reglamento Núm. 7940 de 2 de noviembre de 2010), promulgado al amparo de los poderes conferidos por la Ley Núm. 70 de 12 de septiembre de 1992, **se emite este endoso.** El mismo estará condicionado, a lo estipulado en el Capítulo VII-Centros de Deposito, Centros de Acopio e Instalaciones de Almacenamiento e Instalaciones de Reciclaje, Regla 6-Limitación de la Certificación de Cumplimiento, el cual establece que:

1. La Certificación emitida por la Autoridad conforme este Capítulo tendrá una vigencia de dos (2) años para la etapa de planificación y permiso. Una vez la instalación o centro este en operación conforme a la Certificación emitida, esta deberá mantener la naturaleza de la actividad por la cual fue evaluada para que éste continúe vigente. El incumplimiento durante la etapa de planificación y permiso o en caso de que la naturaleza de la actividad sea alterada, la Autoridad podrá revocar la certificación emitida y referir a la agencia reguladora pertinente un informe de situación para la acción correspondiente.

Gmail

Homeca Recycling carta

Monica Brown <mbrown@ads.pr.gov> Fri, May 25, 2012 at 11:35 AM
To: tamara.homeca@gmail.com
Cc: Brunilda Isaac <bisaac@ads.pr.gov>

Tamara:

Te incluyo la carta para tus récords.

RECIBIDO
JUNTA CALIDAD AMBIENTAL
MAY 25 2012
Ofic. Regional de Ponce

MONICA BROWN
Administradora de Sistemas de Oficina I
Planificación, Operaciones e Ingeniería
Autoridad de Desperdicios Sólidos
PO BOX 40285
SAN JUAN PR 00940
(787) 765-7575 ext. 4671
(787) 281-1676
mbrown@ads.pr.gov

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Homeca Recycling DS-2 Guayanilla (Peñuelas).pdf
399K

Tamara Echevarria <tamara.homeca@gmail.com> Fri, May 25, 2012 at 11:49 AM
To: Monica Brown <mbrown@ads.pr.gov>
Cc: Brunilda Isaac <bisaac@ads.pr.gov>

recibido, gracias.
[Quoted text hidden]

001119

Gracias,

María

From: Tamara Echevarria [mailto:tamara.homeca@gmail.com]
Sent: domingo, 13 de mayo de 2012 12:07 p.m.
To: Figueroa Andino, Maria del C.
Subject: Re: DS-O PR Olefins

[Quoted text hidden]

Tamara Echevarria <tamara.homeca@gmail.com> Fri, May 25, 2012 at 11:20 AM
To: "Figueroa Andino, Maria del C." <MariaFigueroa@jca.gobierno.pr>

ok, asi lo hare!

2012/5/24 Figueroa Andino, Maria del C. <MariaFigueroa@jca.gobierno.pr>
[Quoted text hidden]
[Quoted text hidden]

RECIBIDO
JUNTA CALIDAD AMBIENTAL
MAY 25 2012
Ofic. Regional de Ponce

14 de mayo de 2012

Junta de Calidad Ambiental

3199 Ave. Santiago de los Caballeros

Suite 404, Ponce, PR 00716-2018

RECIBIDO
JUNTA CALIDAD AMBIENTAL
MAY 25 2012
Ofic. Regional de Ponce

RE: Permiso Nuevo Instalación de Desperdicios No Peligrosos

Reciclaje de Metales PR Olefins

PR 127 KM. 19.1 Bo. Tallaboa Poniente Sector El Pueblito

Peñuelas, PR 00624

Estimados Señores (as):

Según requerido, certificamos que SAC Recycling Export mantiene una relación contractual con Homeca Recycling para la exportación de los metales ferrosos y no ferrosos del proyecto en referencia. Estos metales serán exportados para el reciclaje en sus condiciones existentes.

Esperamos el permiso pueda ser otorgado. Cualquier pregunta o información adicional, no dude en comunicarse con esta servidora a su conveniencia.

Cordialmente,

Ana Judith Diez

SAC RECYCLING EXPORT

OFFICE: 1-787-841-2223

CELL:1-787-214-4682

SKYPE : ANA J DIEZ

NATIONALLY AGREED STANDARD OPERATING PROCEDURE (NASOP)

Title: **Decontamination of large equipment**

Version: **1.0**

Prepared by: **Subcommittee on Emergency Animal Diseases**

Approved by: **Animal Health Committee**

Revision history:

Version	Date of approval	Comments
1.0	02/05/11	Approved by AHC

NASOPs support national consistency and provide guidance to response personnel undertaking operational tasks.

1. Purpose

- To describe the actions and practices to be taken by staff involved in the planning or process of decontaminating large equipment, including vehicles.

2. Application/scope

- A control centre is likely to use a vast array of equipment to complete its many tasks, such as destruction, disposal and decontamination. Much of this equipment is likely to be heavy machinery, or similar. It is essential that this equipment be cleaned and disinfected after exposure/potential exposure to the disease causing agent.
- Decontamination of machinery such as excavators, bulldozers, backhoes, bobcats and even lesser equipment such as generators will require a significant commitment of resources and time.
- To minimise the need to decontaminate the heavy machinery, it is important to consider the deployment of the machinery in the first place, for example, if it takes two days to decontaminate a bulldozer, it may be more appropriate to use a single dozer even though the activity requires more time, rather than contaminate two and thus the need to clean two.
- Equipment and machinery must be decontaminated before leaving an infected premises (IP)/ dangerous contact premises (DCP) or on leaving the Restricted Area (RA).
- If a machine has worked on an IP/DCP and its next task is on an IP/DCP, it will only require sufficient decontamination to prevent contamination occurring during transport (it is possible to move between properties of like status without full decontamination with approval from the operations centre).
- A Movement Permit is required when moving between properties.

NOTE: Prior to deployment of machinery, it is important the owner/contractor is aware of the decontamination procedures to which the machinery will be exposed and the time required. Does the contract rate e.g. rate/hour include down time whilst machinery is being disinfected.

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3. Resources/equipment

3.1. General

- appropriate personal protective equipment (PPE) issue for personnel entering property
- additional PPE for the prescribed activity—wet weather top and bottom, weather proof gloves, hard hat, respiratory and eye protection as per material safety data sheet (MSDS)

NOTE: eye protection must be worn during the decontamination procedure even if not specified by MSDS to prevent foreign matter in eyes.

- work area with good drainage at wash down site and hard surface located near or at exit for final decontamination / disinfection
- wash down area with liquid waste capturing and holding tanks or similar, with potential need for soil trap
- water supply for pumps—and any equipment to maintain supply
- high pressure cleaner—complete, with long hose and lance
- volume pump, hose, and nozzle for spraying disinfectant
- supply of suitable detergent to assist the cleaning process
- tank to mix disinfectant, and any specific mixing equipment (or proportioner in built with pump)
- disinfectant (as per AUSVETPLAN or directions provided by the operations centre) – at least one day's use on the 'inside'
- optional—scraper or broom for tough jobs
- access to any first aid as recommended by MSDS or material packaging
- possibly need support such as scaffolding or cherry picker for working at heights

NOTE: some items (electrical equipment) may require fumigation as opposed to liquid disinfection

3.2. Documentation

- audit forms
- restricted area movement and surveillance (RAMS) exit form
- MSDSs for all chemicals used
- procedural checklist (Appendix 1)

4. Warnings

- Fatigue
  - It is important personnel involved in such tasks are given the opportunity for reasonable breaks as working in PPE can be debilitating.
  - Tiredness can be exaggerated by dehydration. Staff employed on these duties must be closely monitored.
- Foreign matter in eyes may result from the scrapping/other actions to remove built up soil etc. Eye protection must be worn for such tasks.
- Manual handling
  - Much of the equipment in use and also consumables such as the disinfectant may be heavy. Efforts should be made to minimise the need for heavy items to be moved either alone or without assistance.
- Slips, trips and falls
  - The working environment is wet, typically uneven, and potentially a different structure each time. Every effort should be made to prevent slips, trips and falls by personnel undertaking the disinfection. Checks should be made on non-slip footwear, non-slip work surfaces, and low risk work practices e.g. not climbing on

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painted metal surfaces. Where operations are in the dark, supplementary lighting should be provided.

- Smoking
  - Smoking must not be allowed where decontamination is being carried out. Some disinfectants and fumigants are flammable as may be vehicle fuel.
- Vehicles
  - Where possible, if a driver has remained in the vehicle cab and there is minimum contamination, they are to remain in the cab until disinfection has been completed.
  - Ensure that the vehicle is parked securely, in gear with handbrake on. If the vehicle is in danger of rolling or on steep slope, ensure wheels are chocked.
- Visibility
  - All personnel operating in and around the gate, including the disinfection team should be readily visible e.g. reflective vests.
- Working with disinfectants and fumigants
  - A team should include one person who is trained in the use of hazardous substances. This will ensure the team is able to interpret the MSDS for the disinfectants in use and apply the interpretation.
  - No disinfectant or fumigant should be used without the relevant MSDS and all requirements of the MSDS must be followed. Specified contact times must be observed.
  - All relevant PPE must be available and used at all times. If specialised PPE is required e.g. breathing apparatus, then only trained and skilled operators are to use that PPE.
  - Particular attention should be given to the mixing of all chemicals (from concentrated to dilute form).
  - Where possible, chemicals used should not be capable of damaging the equipment being decontaminated. Where necessary chemicals must be washed off after contact period.
- Working at heights
  - There is a possibility some disinfection operations will require the crew to operate off the ground e.g. cabin of truck, boom of a crane.
  - Where personnel work at heights it is essential, all necessary steps are taken to prevent a fall, and provide protection in the event of a fall. This may mean providing a platform (fixed or cherry picker) for spraying/cleaning from, rather than actually climbing on the vehicle/equipment.
- Personnel involved in this task must wear a hard hat in addition to other specified PPE.

5. Description of activities

- Familiarise staff with equipment to be decontaminated and the areas in vehicles and equipment which require attention (Appendix 1).
- Remove excess soil and bio-organic matter—whilst in the contaminated area—prior to wash down.
- Relocate equipment to wash down site.
- Ensure wheels are chocked or similar to prevent vehicle moving.
- Spray external surfaces with disinfectant.
- Remove remaining gross contamination with wash/high pressure and/or detergent, followed by high pressure cleaner (control aerosols for specified diseases).
- Start at top and work down.
- Cabin—vacuum floor and spray/wipe all surfaces with appropriate disinfectant.
- Mange air filters according to disease
- When wash down has been completed, relocate to exit site for final disinfection.
- Apply disinfectant and leave disinfectant for recommended contact time before rinsing with clean water.
- Ensure the equipment is not left in a location where it can become contaminated whilst waiting for transport.

NOTE: There will be a need to move machinery so all parts of wheels/tracks are accessed.

6. References

- AUSVETPLAN Decontamination Manual
  - AUSVETPLAN manuals are available at: http://www.animalhealthaustralia.com.au
- NASOP 01: *Personal decontamination—entry and exit procedures*
- NASOP 09: *Inspection of property before operations*
- NASOP 26: *Decontamination of groups of people—entry and exit procedures*
- NSW SOP (e.g. Decontamination of large equipment; Decontamination—vehicles)
- RAMS Exit Form

7. Appendices

- Appendix A: General guide to decontamination

APPENDIX A

GENERAL GUIDE TO DECONTAMINATION

1. Cabin and interior
- ❑ check carpets/mats
- ❑ tool boxes/bins and upper operator cabins
- ❑ boot area including spare tyre area
- ❑ other recesses in the rear of the vehicle

2. Engine bay
- ❑ radiator core and oil coolers
- ❑ grills
- ❑ top of transmission gearbox
- ❑ battery box and sump guards
- ❑ air pre-cleaners and dust unloaders

5. Underside
- ❑ wheel arches, wheel trims, flares, step treads and bumpers
- ❑ mud flaps
- ❑ rims, tyres and any gashes or cuts in tyres
- ❑ axels and differentials
- ❑ spare tyres stowed under vehicle are to be lowered for inspection

4. Chassis and body
- ❑ check inside of chassis rail ledges and back axle
- ❑ front/rear brake assemblies

5. Buckets, blades, booms
- ❑ attachments (buckets, blades, booms and rippers)
- ❑ cutting teeth, adaptors and wear plates on blades
- ❑ hydraulic arms supports for hollows

6. Plant and vehicle loads
- ❑ all loads are inspected as above
- ❑ all imported material declared and approved (particularly soils, seeds, plant matter)

7. Container and general cargo
- ❑ a visual check with vehicle loaded (especially forklift points)

The safety of inspectors/equipment operators and drivers must be taken into account at all times.

Do's:
1. all safety precautions carried out prior to inspection
2. inspection carried out at wash points where available
3. inspection conducted to allow time for rewashing as required
4. ensure all units and sub-units attached are inspected
5. persons carrying out inspections should be consistent throughout inspections
6. inspectors consider traffic congestion when planning inspection
7. consider water runoff and weed infestation at wash points
8. inspect all bulk and general cargo's where appropriate
9. pin, block or chock all attachments blades and booms
10. minimise use of water (consider water restrictions and volume of waste water to be retained/treated)
11. inspectors to wear high visibility vests
12. where possible carry out inspection in daylight.

Don'ts:
1. Don't conduct inspection with engines running.
2. Don't leave keys in vehicle when inspecting vehicle.
3. Where key cannot be removed inspectors are to ensure vehicles cannot be moved during inspections or washing.
4. Don't allow vehicles to be reversed without guides.
5. Don't carryout inspections on roadways.
6. Don't allow vehicles to avoid wash down and inspection.

HOMECA
RECYCLING
Environmental, Coating and Demolition Services

STANDARD OPERATING PROCEDURE FOR:

DECONTAMINATION OF EQUIPMENT

Prepared by:

Homeca Recycling Center Co., Inc.

For:

Puerto Rico Olefins

December 2013

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1.0 PURPOSE

The purpose of this Standard Operating Procedure (SOP) is to describe the methods to be used when decontaminating field equipment that has had the potential to be exposed to asbestos at Puerto Rico Olefins in Peñuelas PR. It is important to follow these procedures from a quality control (QC) perspective to ensure that no equipment lives the work site with any contamination.

2.0 GENERAL CONSIDERATIONS

Potential hazards associated with the planned tasks should be thoroughly evaluated prior to conducting Olefins field activities. The site-specific Health and Safety Plan (HASP) provides a description of potential hazards and associated safety and control measures.

Sampling personnel must wear powder-free nitrile gloves while performing the procedures described in this SOP. Specifically, nitrile gloves must be worn while preparing sample bottle ware, preparing and decontaminating sampling equipment, collecting and processing samples, and packing samples. At a minimum, nitrile gloves must be changed prior to the collection of each sample or as necessary to prevent the possibility of cross-contamination with the sample, the sample bottle ware, or the sampling equipment.

Consideration should be given to the order in which the samples are collected. In general, samples should be collected from areas suspected to be least impacted by contamination followed by areas suspected to be most impacted by contamination, thereby minimizing the potential for cross-contamination.

Prior to field activities, the field team should consider how investigation-derived waste (such as decontamination fluids) is to be handled.

If containerization of decontamination fluids associated with decontaminating large equipment (such as drilling rigs and backhoes/excavators) is required, it is imperative to ensure that the subcontractor will have appropriate equipment onsite. This equipment

1575 Ave. Muñoz Rivera PMB 120 Ponce, PR 00717-0211 / Office: 787-841-2223 / Fax. 787-984-0050

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may include a portable electric generator and a high-pressure steam-cleaner or steam-jenny. In addition, a decontamination pad or portable containment system should be used to collect fluids. Typical decontamination pads are constructed of polysheeting draped over hay bales or a wooden frame and sloped to accommodate the collection of liquids by sump or other suitable means.

3.1 PROCEDURES

The following sections describe the procedures for decontamination of equipment. Any variation in these procedures must be approved by the Project Manager (PM) and Quality Assurance/Quality Control (QA/QC) Lead and must be fully documented. Decontamination activities cannot progress until deviations are approved or resolved.

3.2 Pre-Job Preparation

Prior to initiating sampling activities, the PM will ensure that the following activities have been completed.

a. Verify that an adequate supply of equipment, solvents, and water (both potable and deionized [DI]) necessary for completing decontamination are available for the planned sampling activities at the site. See Table 1 for an example checklist of decontamination equipment and materials.

b. Review project work control documents such as the *Quality Assurance Project Plan* (QAPP), *Health and Safety Plan* (HASP), and appropriate SOPs in an effort to determine the project-specific requirements, procedures, and goals.

3.3 Field Preparation and Set-up

The field set-up for decontamination will vary depending on the type of equipment to be used as described in the following steps.

a. Establish a centralized equipment decontamination area at KIF for the day-to-day decontamination of general sampling equipment. Set up the decontamination area away from and preferably upwind from areas of remediation, construction, and site operation activities.

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b. For decontamination of hand-held sampling equipment, spread plastic sheeting on the ground and place the decontamination tubs and/or buckets and rinse bottles in order of use on top of the plastic. Prepare an ample volume of decontamination solution containing a non-phosphate detergent (such as LiquiNox®detergent solution) and potable water. Record the source of the water in the field logbook.

c. For decontamination of drilling rigs or backhoes/excavators, establish an area for decontamination that will meet the program and site-specific requirements for collection of decontamination fluids. If necessary, set up a decontamination pad at the KIF decontamination area as discussed in Section 2.0. Conduct gross decontamination (such as removing general mud from large equipment) prior to demobilization from the site back to the KIF decontamination area.

3.4 Decontamination

All equipment used for sampling, testing, or measuring, including excavating and drilling equipment, that comes in contact with potentially sampled media will be decontaminated prior to use unless the equipment is prepackaged and sealed by a manufacturer of environmental sampling equipment. Reusable sampling equipment will also be decontaminated between sampling locations. If disposable sampling equipment (clean prepackaged materials) is used, this equipment will not be decontaminated before use and will be disposed of properly after one use. Disposable equipment will not be used at more than one sampling location.

Dedicated sampling equipment, such as individual sampling/purging pumps that are used to sample one well, will be decontaminated prior to the first use, but will not require decontamination between uses at the same well. Dedicated sampling equipment will be secured in clean resealable plastic bags between uses and will be replaced monthly (<32 days) or when visual indications of stains are observed or there are indications of contamination from equipment blanks.

The following presents decontamination procedures for manual sampling equipment and heavy equipment.

3.3.1 Manual Sampling Equipment

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The following general decontamination steps should be applied to all equipment prior to initial use (unless using clean prepackaged environmental sampling equipment) or that have been utilized to collect sample media for analytical purposes. Site-specific project control documents may specify modifications to these procedures and should be followed when applicable. It is important to note that no acids or solvents will be used to decontaminate any electrical or electronic instrumentation unless specified by the manufacturer.

a. Physically remove visible material from the sampling equipment to the extent practical before decontaminating the equipment with decontamination fluids. If this material appears to be impacted based on visual observation, instrument readings, or other credible indication, collect and manage this material in accordance with the *Management of Investigation-Derived Waste* SOP (TVA-KIF-SOP-012).

b. Immerse (to the extent practicable) the equipment in the detergent solution and scrub the equipment thoroughly with a stiff brush until visible residual material is removed and the equipment is visibly clean. Circulate detergent solution through equipment that cannot be disassembled such as submersible pumps (ASTM, 1990).

c. Rinse the equipment thoroughly with potable water.

d. Rinse the equipment with organic desorbing agent (isopropyl alcohol). If samples are not being collected for analysis of organic compounds, omit this step (ASTM, 1990).

e. Rinse the equipment thoroughly with potable water.

f. Rinse the equipment with DI water (use reagent-grade DI water from a known source).

g. To the extent practicable, allow the equipment to air dry in a clean area (equipment does not need to be completely dry before reuse; under certain weather conditions, complete air drying is not possible).

h. Change the initial decontamination solution daily and/or between sites at a

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minimum and more frequently as needed. Collect decontamination solvents in a separate container from water/detergent solutions and properly containerize, store, and dispose of decontamination solutions in accordance with the *Management of Investigation-Derived Waste* SOP (TVA-KIF-SOP-012).

If decontaminated equipment will not be used immediately, the equipment may be wrapped in aluminum foil (if used for organics only) or sealed in a plastic bag for storage. Decontamination activities, including date, time, and reagents used, should be documented in the field logbook and decontaminated sampling equipment should be labeled with this information as appropriate.

3.3.2 Decontamination of Heavy Equipment

The following steps for decontamination can be applied to heavy equipment.

a. Physically remove as much of the visible material as possible from the heavy equipment after use and prior to steam cleaning. If contaminated material is suspected as determined by visual observations, instrument readings, or other means, collect material in an appropriate container. Otherwise, return the material to the area where it originated.

b. Place the heavy equipment on the decontamination pad in the decontamination area. If wash water is to be collected, ensure that the collection mechanism functions properly and that the decontamination pad has no leaks.

c. Steam clean parts of the heavy machinery that come into contact with visible material (such as tires, bulldozer bucket, augers, and back of drill rig).

d. For any portion of the heavy equipment that comes into contact with the sampling media, decontaminate by following steps *b* through *h* of Section 3.3.1.

e. Containerize fluids, if appropriate. Place solids in a drum or other appropriate container.

3.4 Field Logbook Documentation

Field logbooks will be maintained by the Field Team Leader to record daily activities. In

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addition to the minimum requirements discussed in the *Field Documentation* SOP (TVA-KIF-SOP-06), the field logbooks should document those decontamination activities specific to this SOP.

The Field Team Leader and/or designee will review the field logbook entries on a weekly basis at a minimum (daily review is preferred) for completeness and accuracy and will indicate this review by initialing the entries. The Field Team Leader or designee is responsible for completion of the required data collection forms.

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4.1 REFERENCES

- ASTM. *Standard Practice for Decontamination of Field Equipment Used at Nonradioactive Waste Sites*. D 5088-90, 1990.
- United States Environmental Protection Agency (U.S. EPA). Region 4, *Field Equipment Cleaning and Decontamination Operating Procedure*. Document # SESDPROC-205-R1, November 2007.
- Tennessee Valley Authority (TVA). *Field Documentation* SOP (TVA-KIF-SOP- 06). February 2009.
- TVA. *Health and Safety Plan* (HASP), KIF Site Specific, 2009.
- TVA. *Management of Investigation-Derived Waste* SOP (TVA-KIF-SOP-12), 2010.
- TVA. *Quality Assurance Project Plan* (QAPP), 2009.

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HOMECA RECYCLING
Environmental, Coating and Demolition Services

Table 1: Decontamination Checklist for Equipment and Materials	
Item Description	**Check☐**
Health & Safety	
Nitrile gloves	
Hard hat	
Steel-toed boots	
Hearing protection	
Field first-aid kit	
Eyewash	
Safety glasses or face shield (for use when steam cleaning)	
Barricades, cones, flashing lights, signs	
Respirator and cartridges (if necessary)	
Saranex™/ Tyvek®suits and booties (if necessary)	
Paperwork	
Health and Safety Plan	
Project work control documents	
Field logbook	
Equipment	
Non-phosphate detergent (such as LiquiNox®)	
Isopropyl alcohol	
Buckets or washtubs	
Spray bottles	
Drums (with labels)	
Plastic sheeting	
Brushes	
Steam cleaner/ generator	
Potable water/ Deionized water	
Aluminum foil	
Plastic bags	
Drying shelves	

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End of Procedure

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Homeca Recycling Center
Registro de Manifiestos

Proyecto: Desmantelamiento Antiguas Facilidades PR Olefins
No. Permiso JCA: PG-ASB-57-09-11-0112-RC Desde 09/30/11 Hasta 09/30/12
Lugar Disposición: Allied Waste of Ponce
Número Aprobación: 4217107974

	Fecha	Transportista	No. Manifiesto	JCA Manifiesto	yds	Copia Manifiesto	Fecha Factura	Numero Factura
1	12/09/11	Envirorecycling	04996		40.00	ok	12/31/11	028119
2	12/14/11	Envirorecycling	04989		40.00	ok	12/31/11	028119
3	12/16/11	Envirorecycling	04971		40.00	ok	12/31/11	028119
4	12/16/11	Envirorecycling	04970		30.00	ok	12/31/11	028119
5	12/21/11	Envirorecycling	04972		40.00	ok	12/31/11	028119
6	12/21/11	Envirorecycling	04973		40.00	ok	12/31/11	028119
7		Envirorecycling	04974		40.00		1/31/2012	028222
8		Envirorecycling	04975		40.00		1/31/2012	028222
9		Envirorecycling	04976		40.00		1/31/2012	028222
10		Envirorecycling	04977		40.00		1/31/2012	028222
11		Envirorecycling	04978		40.00		1/31/2012	028222
12		Envirorecycling	04979		40.00		1/31/2012	028222
13		Envirorecycling	04980		40.00		1/31/2012	028222
14		Envirorecycling	04981		40.00		1/31/2012	028222
15		Envirorecycling	04982		40.00		1/31/2012	028222
16		Envirorecycling	04983		40.00		1/31/2012	028222
17		Envirorecycling	04984		40.00		1/31/2012	028222
18	2/2/12	Envirorecycling	04985		40.00	ok	2/28/2012	028326
19	2/2/12	Envirorecycling	04986		40.00	ok	2/28/2012	028326
20	2/17/12	Envirorecycling	04988		40.00	ok	2/28/2012	028326
21	2/17/12	Envirorecycling	15615		40.00	ok	2/28/2012	028326
22	2/24/12	Envirorecycling	15616		40.00	ok	2/28/2012	028326
23	2/24/12	Envirorecycling	15617		40.00	ok	2/28/2012	028326
24		Envirorecycling	15618		40.00		3/31/2012	028428
25		Envirorecycling	15619		40.00		3/31/2012	028428
26		Envirorecycling	15620		40.00		3/31/2012	028428
27		Envirorecycling	15621		40.00		3/31/2012	028428

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Homeca Recycling Center
Registro de Manifiestos

28		Envirorecycling	15622		40.00		3/31/2012	028428
29		Envirorecycling	15623		40.00		3/31/2012	028428
30		Envirorecycling	15624		40.00		3/31/2012	028428
31		Envirorecycling	15625		40.00		3/31/2012	028428
32		Envirorecycling	15626		40.00		3/31/2012	028428
33		Envirorecycling	15627		40.00		3/31/2012	028428
34		Envirorecycling	15628		40.00		3/31/2012	028428
35		Envirorecycling	15629		40.00		3/31/2012	028428
36		Envirorecycling	15630		40.00		3/31/2012	028428
37		Envirorecycling	15631		40.00		3/31/2012	028428
38		Envirorecycling	15632		40.00		4/30/2012	028526
39		Envirorecycling	15633		40.00		4/30/2012	028526
40		Envirorecycling	15634		40.00		4/30/2012	028526
41		Envirorecycling	15635		40.00		4/30/2012	028526
42		Envirorecycling	15636		40.00		4/30/2012	028526
43		Envirorecycling	15637		40.00		4/30/2012	028526
44		Envirorecycling	19653		40.00		4/30/2012	028526
45		Envirorecycling	19654		40.00		4/30/2012	028526
46		Envirorecycling	19655		40.00		4/30/2012	028526
47	5/18/12	Envirorecycling	19670		40.00	ok	5/31/12	028641
48	5/18/12	Envirorecycling	19351		40.00	ok	5/31/12	028641
49	5/22/12	Envirorecycling	19352		40.00	ok	5/31/12	028641
50	5/22/12	Envirorecycling	19353		40.00	ok	5/31/12	028641
51	5/22/12	Envirorecycling	19354		40.00	ok	5/31/12	028641
52	5/25/12	Envirorecycling	19355		40.00	ok	5/31/12	028641
53	5/25/12	Envirorecycling	19356		40.00	ok	5/31/12	028641
54	5/25/12	Envirorecycling	19357		40.00	ok	5/31/12	028641
55	5/31/12	Envirorecycling	19358		40.00	ok	5/31/12	028641
56	5/31/12	Envirorecycling	19359		40.00	ok	5/31/12	028641
57	5/31/12	Envirorecycling	17164		40.00	ok	5/31/12	028641
58	05/02/12	Envirorecycling	19656		40.00	ok	5/31/12	028641
59	05/02/12	Envirorecycling	19657		40.00	ok	5/31/12	028641
60	05/02/12	Envirorecycling	19658		40.00	ok	5/31/12	028641
61	05/04/12	Envirorecycling	19659		40.00	ok	5/31/12	028641
62	05/04/12	Envirorecycling	19660		40.00	ok	5/31/12	028641
63	05/09/12	Envirorecycling	19661		40.00	ok	5/31/12	028641

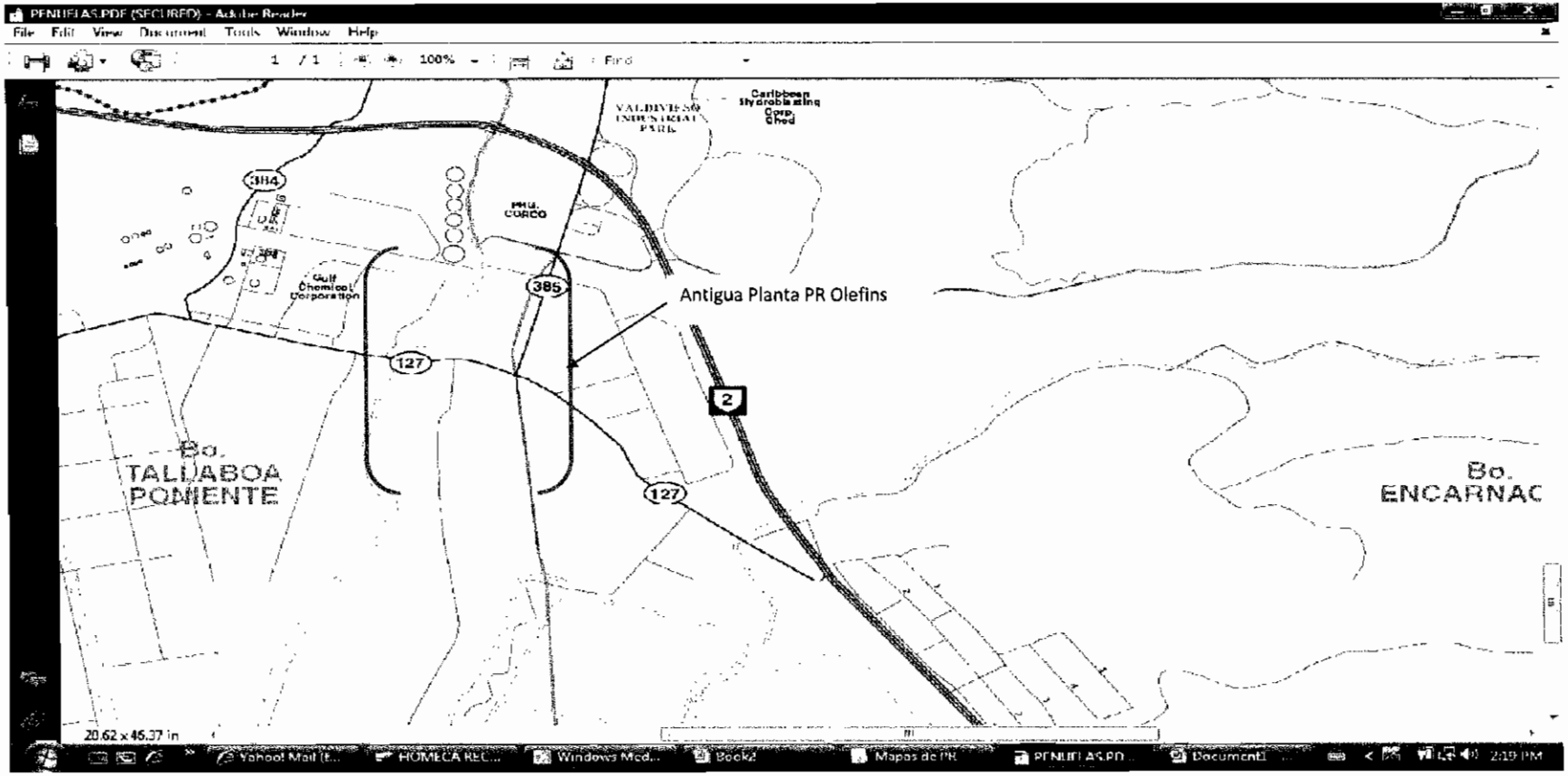
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Homeca Recycling Center
Registro de Manifiestos

64	05/09/12	Envirorecycling	19662		40.00	ok	5/31/12	028641
65	05/09/12	Envirorecycling	19663		40.00	ok	5/31/12	028641
66	05/09/12	Envirorecycling	19664		40.00	ok	5/31/12	028641
67	05/11/12	Envirorecycling	19665		40.00	ok	5/31/12	028641
68	05/11/12	Envirorecycling	19666		40.00	ok	5/31/12	028641
69	05/11/12	Envirorecycling	19667		40.00	ok	5/31/12	028641
70	05/15/12	Envirorecycling	19668		40.00	ok	5/31/12	028641
71	05/15/12	Envirorecycling	19669		40.00	ok	5/31/12	028641
72	05/08/12	Envirorecycling	19671		40.00	ok	5/31/12	028641
73	06/04/12	Envirorecycling	17163		40.00	ok	6/30/12	028761
74	06/04/12	Envirorecycling	17162		40.00	ok	6/30/12	028761
75	06/04/12	Envirorecycling	17161		40.00	ok	6/30/12	028761
76	06/04/12	Envirorecycling	17154		40.00	ok	6/30/12	028761
77	07/03/12	Envirorecycling	17155		40.00	ok	7/31/12	028900
78	07/03/12	Envirorecycling	17156		40.00	ok	7/31/12	028900
79	07/03/12	Envirorecycling	17157		40.00	ok	7/31/12	028900
80	07/13/12	Envirorecycling	17158		40.00	ok	7/31/12	028900
81	07/13/12	Envirorecycling	17160		40.00	ok	7/31/12	028900
82		Envirorecycling	25596		40.00		08/31/12	029022
					3,270.00			

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Homeca Recycling Center Co, Inc.

Plano de Localización

Proyecto:

Desmantelación Antiguas Facilidades PR Olefins.

Dirección

Bo. Tallaboa Poniente Carr. 385 Km. 5.4 Int. Carr 127 Km. 31.2 Peñuelas, PR

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Homeca Demolition
ProCaribe

02/25/10

Contractor's Name		T	F	S	S	M	T	W	Total Hours	Rate	Gross	Withholding	Net	Other	CK Amount
Juan Lopez	ST	8	8	0	0	8	8	8							
		0	0	0	0	0	0	0							
	OT	0	0	0	0	0	0	0							
	DT	0	0	0	0	0	0	0	40.00	8.00	320.00	22.40	297.60	-	297.60
Harris Morales	ST	8	8	0	0	8	8	8							
		0	0	0	0	0	0	0							
	OT	0	0	0	0	0	0	0							
	DT	0	0	0	0	0	0	0	40.00	8.00	320.00	22.40	297.60	-	297.60
Carlos Pizzaros	ST	8	8	0	0	8	8	8							
		0	0	0	0	0	0	0							
	OT	0	0	0	0	0	0	0							
	DT	0	0	0	0	0	0	0	40.00	7.50	300.00	-	300.00	10.00	310.00
Rafael Figueroa	ST	8	8	0	0	8	8	8							
		0	0	0	0	0	0	0							
	OT	0	0	0	0	0	0	0							
	DT	0	0	0	0	0	0	0	40.00	7.25	290.00	-	290.00	-	290.00
	ST	0	0	0	0	0	0	0							
		0	0	0	0	0	0	0							
	OT	0	0	0	0	0	0	0							
	DT	0	0	0	0	0	0	0	-	-	-	-	-	-	-
									160.00		1,230.00	44.80	1,185.20	10.00	1,195.20

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Payroll
PROCARIBE P1003

(1) Name, Address, and Social Security Number of Employee	(2) No. of Withholding Exemptions	(3) Work Classification	OT or ST	(4) Day and Date							(5) Total Hours	(6) Rate of Pay	(7) Gross Amount Earned	(8) Deductions				(9) Net Wages paid for week	(10) Others Expenses Gas Auto, Etc.	(11) Total Paid
				TH	FR	SAT	SUN	MON	TUE	WED				FICA	Withholding Tax	Disability	Total Deductions			
				25-Feb	26-Feb	27-Feb	28-Feb	1-Mar	2-Mar	3-Mar										
Juan H. Lopez Candelario Bo. Santo Domingo II Casa 9 Peñuelas, PR 00624 Social Security: xxx-xx-0173		Supervisor	ST	8	8	0	0	8	8	0	32	8.00	256.00	19.58	12.80		32.38	223.62		223.62
			OT	0	0	0	0	0	0	0										
			DT	0	0	0	0	0	0	0										
Harris Morales Tallaboa Alta IV Sector La Moca # 438 Peñuelas, PR 00624 Social Security: xxx-xx-2114		Laborer	ST	8	8	0	0	8	8	0	32	8.00	256.00	19.58	12.80		32.38	223.62	-	223.62
			OT	0	0	0	0	0	0	0										
			DT	0	0	0	0	0	0	0										
			ST	0	0	0	0	0	0	0	0	8.39	0.00	12.84	8.39		21.23	-21.23	-	(21.23)
			OT	0	0	0	0	0	0	0										
			DT	0	0	0	0	0	0	0										
			ST	0	0	0	0	0	0	0	0	7.61	0.00	-	0.00		-	0.00	0.00	-
			OT	0	0	0	0	0	0	0										
			DT	0	0	0	0	0	0	0										
			ST	0	0	0	0	0	0	0	0	8.50	0.00	-	0.00		-	0.00	0.00	-
			OT	0	0	0	0	0	0	0										
			DT	0	0	0	0	0	0	0										
			ST	0	0	0	0	0	0	0	0	7.61	0.00	-	0.00		-	0.00	45.00	45.00
			OT	0	0	0	0	0	0	0										
			DT	0	0	0	0	0	0	0										
	TOTALS			16	16	0	0	16	16	0	64		512.00	52.01	33.99	-	86.00	426.00	45.00	471.00

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Semana del 03/04/10 al 03/10/10

Payroll
PROCARIBE P1003

(1) Name, Address, and Social Security Number of Employee	(2) No. of Withholding Exemptions	(3) Work Classification	OT or ST	(4) Day and Date TH 25-Feb	FR 26-Feb	SAT 27-Feb	SUN 28-Feb	MON 1-Mar	TUE 2-Mar	WED 3-Mar	(5) Total Hours	(6) Rate of Pay	(7) Gross Amount Earned	(8) Deductions FICA	Withholding Tax	Disability	Total Deductions	(9) Net Wages paid for week	(10) Others Expenses Gas Auto, Etc.	(11) Total Paid
Juan H. Lopez Candelario Bo. Santo Domingo II Casa 9 Peñuelas, PR 00624 Social Security: xxx-xx-0173		Supervisor	ST	8	8	0	0	8	8	8										
			OT	0	0	0	0	0	0	0										
			DT	0	0	0	0	0	0	0	40	8.00	320.00	24.48	16.00		40.48	279.52		279.52
Harris Morales Tallaboa Alta IV Sector La Moca # 438 Peñuelas, PR 00624 Social Security: xxx-xx-2114		Laborer	ST	8	8	0	0	8	8	8										
			OT	0	0	0	0	0	0	0										
			DT	0	0	0	0	0	0	0	40	8.00	320.00	24.48	16.00		40.48	279.52	-	279.52
			ST	0	0	0	0	0	0	0										
			OT	0	0	0	0	0	0	0										
			DT	0	0	0	0	0	0	0	0	8.39	0.00	12.84	8.39		21.23	-21.23	-	(21.23)
			ST	0	0	0	0	0	0	0										
			OT	0	0	0	0	0	0	0										
			DT	0	0	0	0	0	0	0	0	7.61	0.00	-	0.00		-	0.00	0.00	-
			ST	0	0	0	0	0	0	0										
			OT	0	0	0	0	0	0	0										
			DT	0	0	0	0	0	0	0	0	8.50	0.00	-	0.00		-	0.00	0.00	-
			ST	0	0	0	0	0	0	0										
			OT	0	0	0	0	0	0	0										
			DT	0	0	0	0	0	0	0	0	7.61	0.00	-	0.00		-	0.00	45.00	45.00
		TOTALS		16	16	0	0	16	16	16	80		640.00	61.80	40.39	-	102.19	537.81	45.00	582.81

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Semana del 03/11/10 al 03/17/10

Payroll
PROCARIBE P1003

(1) Name, Address, and Social Security Number of Employee	(2) No. of Withholding Exemptions	(3) Work Classification	OT or ST	(4) Day and Date TH 25-Feb	FR 26-Feb	SAT 27-Feb	SUN 28-Feb	MON 1-Mar	TUE 2-Mar	WED 3-Mar	(5) Total Hours	(6) Rate of Pay	(7) Gross Amount Earned	(8) Deductions FICA	Withholding Tax	Dissability	Total Deductions	(9) Net Wages paid for week	(10) Others Expenses Gas Auto, Etc.	(11) Total Paid
Juan H. Lopez Candelario Bo. Santo Domingo II Casa 9 Peñuelas, PR 00624 Social Security: xxx-xx-0173		Supervisor	ST	8	8	0	0	8	8	8										
			OT	0	0	0	0	0	0	0										
			DT	0	0	0	0	0	0	0	40	8.00	320.00	24.48	16.00		40.48	279.52		279.52
Harris Morales Tallaboa Alta IV Sector La Moca # 438 Peñuelas, PR 00624 Social Security: xxx-xx-2114		Laborer	ST	8	8	0	0	8	8	8										
			OT	0	0	0	0	0	0	0										
			DT	0	0	0	0	0	0	0	40	8.00	320.00	24.48	16.00		40.48	279.52	-	279.52
			ST	0	0	0	0	0	0	0										
			OT	0	0	0	0	0	0	0										
			DT	0	0	0	0	0	0	0	0	8.39	0.00	12.84	8.39		21.23	-21.23	-	(21.23)
			ST	0	0	0	0	0	0	0										
			OT	0	0	0	0	0	0	0										
			DT	0	0	0	0	0	0	0	0	7.61	0.00	-	0.00		-	0.00	0.00	-
			ST	0	0	0	0	0	0	0										
			OT	0	0	0	0	0	0	0										
			DT	0	0	0	0	0	0	0	0	8.50	0.00	-	0.00		-	0.00	0.00	-
			ST	0	0	0	0	0	0	0										
			OT	0	0	0	0	0	0	0										
			DT	0	0	0	0	0	0	0	0	7.61	0.00	-	0.00		-	0.00	45.00	45.00
	TOTALS			16	16	0	0	16	16	16	80		640.00	61.80	40.39	-	102.19	537.81	45.00	582.81

00114 RX 6

CONFIDENTIAL & PRIVILEDGE

Semana del 03/18/10 al 03/24/10

Payroll
PROCARIBE P1003

(1) Name, Address, and Social Security Number of Employee	(2) No. of Withholding Exemptions	(3) Work Classification	OT or ST	(4) Day and Date TH	FR	SAT	SUN	MON	TUE	WED	(8) Total Hours	(6) Rate of Pay	(7) Gross Amount Earned	(8) Deductions FICA	Withholding Tax	Disability	Total Deductions	(9) Net Wages paid for week	(10) Others Expenses Gas Auto, Etc.	(11) Total Paid
Juan H. Lopez Candelario Bo. Santo Domingo II Casa 9 Peñuelas, PR 00624 Social Security: xxx-xx-0173		Supervisor	ST	8	8	0	0	8	8	8										
			OT	0	0	0	0	0	0	0										
			DT	0	0	0	0	0	0	0	40	8.00	320.00	24.48	16.00		40.48	279.52		279.52
Harris Morales Tallaboa Alta IV Sector La Moca # 438 Peñuelas, PR 00624 Social Security: xxx-xx-2114		Laborer	ST	8	8	0	0	8	8	8										
			OT	0	0	0	0	0	0	0										
			DT	0	0	0	0	0	0	0	40	8.00	320.00	24.48	16.00		40.48	279.52	-	279.52
			ST	0	0	0	0	0	0	0										
			OT	0	0	0	0	0	0	0										
			DT	0	0	0	0	0	0	0	0	0.00	0.00	12.84	8.39		21.23	-21.23	-	(21.23)
			ST	0	0	0	0	0	0	0										
			OT	0	0	0	0	0	0	0										
			DT	0	0	0	0	0	0	0	0	0.00	0.00	-	0.00		-	0.00	0.00	-
			ST	0	0	0	0	0	0	0										
			OT	0	0	0	0	0	0	0										
			DT	0	0	0	0	0	0	0	0	0.00	0.00	-	0.00		-	0.00	0.00	-
			ST	0	0	0	0	0	0	0										
			OT	0	0	0	0	0	0	0										
			DT	0	0	0	0	0	0	0	0	0.00	0.00	-	0.00		-	0.00	45.00	45.00
	TOTALS			16	16	0	0	16	16	16	80		640.00	61.80	40.39	-	102.19	537.81	45.00	582.81

001 RX 6

CONFIDENTIAL & PRIVILEDGE

Semana del 03/25/10 al 03/31/10

Payroll
PROCARIBE P1003

(1) Name, Address, and Social Security Number of Employee	(2) No. of Withholding Exemptions	(3) Work Classification	OT or ST	(4) Day and Date TH	FR	SAT	SUN	MON	TUE	WED	(8) Total Hours	(6) Rate of Pay	(7) Gross Amount Earned	(8) Deductions FICA	Withholding Tax	Disability	Total Deductions	(9) Net Wages paid for week	(10) Others Expenses Gas Auto, Etc.	(11) Total Paid
Juan H. Lopez Candelario Bo. Santo Domingo II Casa 9 Peñuelas, PR 00624 Social Security: xxx-xx-0173		Supervisor	ST	8	8	0	0	8	8	8										
			OT	0	0	0	0	0	0	0										
			DT	0	0	0	0	0	0	0	40	8.00	320.00	24.48	16.00		40.48	279.52		279.52
Harris Morales Tallaboa Alta IV Sector La Moca # 436 Peñuelas, PR 00624 Social Security: xxx-xx-2114		Laborer	ST	8	8	0	0	8	8	8										
			OT	0	0	0	0	0	0	0										
			DT	0	0	0	0	0	0	0	40	8.00	320.00	24.48	16.00		40.48	279.52	-	279.52
Sánchez Gómez, José HC 06 Box 2225 Ponce, PR 00731 Social Security: 582-84-0463		Laborer	ST	8	8	0	0	8	8	8										
			OT	0	0	0	0	0	0	0										
			DT	0	0	0	0	0	0	0	40	9.00	360.00	12.84	8.39		21.23	338.77	-	338.77
			ST	0	0	0	0	0	0	0										
			OT	0	0	0	0	0	0	0										
			DT	0	0	0	0	0	0	0	0	0.00	0.00	-	0.00		-	0.00	0.00	-
			ST	0	0	0	0	0	0	0										
			OT	0	0	0	0	0	0	0										
			DT	0	0	0	0	0	0	0	0	0.00	0.00	-	0.00		-	0.00	0.00	-
			ST	0	0	0	0	0	0	0										
			OT	0	0	0	0	0	0	0										
			DT	0	0	0	0	0	0	0	0	0.00	0.00	-	0.00		-	0.00	45.00	45.00
	TOTALS			24	24	0	0	24	24	24	120		######	61.80	40.39	-	102.19	897.81	45.00	942.81

001146
RX46

CONFIDENTIAL & PRIVILEDGE

Semana del 04/22/10 al 04/28/10

Payroll
Procaribe (P1003)

(1) Name, Address, and Social Security Number of Employee	(2) No. of Withholding Exemptions	(3) Work Classification	OT or ST	(4) Day and Date TH	FR	SAT	SUN	MON	TUE	WED	(5) Total Hours	(6) Rate of Pay	(7) Gross Amount Earned	(8) Deductions FICA	Withholding Tax	Disability	Total Deductions	(9) Net Wages paid for week	(10) Others Expenses Gas Auto, Etc.	(11) Total Paid
Juan H. Lopez Candelario Bo. Santo Domingo II Casa 9 Peñuelas, PR 00624 Social Security: xxx-xx-0173		Supervisor	ST	0	0	0	0	0	0	8	8	8.00	64.00	4.90	3.20		8.10	55.90		55.90
			OT	0	0	0	0	0	0	0										
			DT	0	0	0	0	0	0	0										
Harris Morales Tallaboa Alta IV Sector La Moca # 438 Peñuelas, PR 00624 Social Security: xxx-xx-2114		Laborer	ST	0	0	0	0	0	0	8	8	8.00	64.00	4.90	3.20		8.10	55.90	-	55.90
			OT	0	0	0	0	0	0	0										
			DT	0	0	0	0	0	0	0										
Sánchez Gómez, José HC 06 Box 2225 Ponce, PR 00731 Social Security: 582-84-0463		Laborer	ST	0	0	0	0	0	0	0	0	9.00	0.00	12.84	8.39		21.23	-21.23	-	(21.23)
			OT	0	0	0	0	0	0	0										
			DT	0	0	0	0	0	0	0										
			ST	0	0	0	0	0	0	0	0	0.00	0.00	-	0.00		-	0.00	0.00	-
			OT	0	0	0	0	0	0	0										
			DT	0	0	0	0	0	0	0										
			ST	0	0	0	0	0	0	0	0	0.00	0.00	-	0.00		-	0.00	0.00	-
			OT	0	0	0	0	0	0	0										
			DT	0	0	0	0	0	0	0										
			ST	0	0	0	0	0	0	0	0	0.00	0.00	-	0.00		-	0.00	45.00	45.00
			OT	0	0	0	0	0	0	0										
			DT	0	0	0	0	0	0	0										
	TOTALS			0	0	0	0	0	0	16	16		128.00	22.63	14.79	-	37.42	90.58	45.00	135.58

RX 6
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CONFIDENTIAL & PRIVILEDGE

Semana del 04/22/10 al 04/28/10

CONTRATISTAS
PROCARIBE (P 1003)

(1) Name, Address, and Social Security Number of Employee	OT or ST	(4) Day and Date TH	FR	SAT	SUN	MON	TUE	WED	(8) Total Hours	(6) Rate of Pay	(7) Gross Amount Earned	Withholding Tax (8)	(9) Net Wages paid for week	(10) Others Expenses Gas Auto, Etc.	(11) Total Pain	CK
Carlos Pizarro	ST	0	0	0	0	0	0	8								
	OT	0	0	0	0	0	0	0								
	DT	0	0	0	0	0	0	0	8	7.50	60.00	4.20	55.80		55.80	
Juan Domenech	ST	0	0	0	0	0	0	8								
	OT	0	0	0	0	0	0	0								
	DT	0	0	0	0	0	0	0	8	10.00	80.00	5.60	74.40		74.40	
Julio Gonzalez	ST	0	0	0	0	0	0	8								
	OT	0	0	0	0	0	0	0								
	DT	0	0	0	0	0	0	0	8	7.75	62.00	0.00	62.00		62.00	
Robin Ramos	ST	0	0	0	0	0	0	0								
	OT	0	0	0	0	0	0	0								
	DT	0	0	0	0	0	0	0	0	7.75	0.00	0.00	-		-	
	ST	0	0	0	0	0	0	0								
	OT	0	0	0	0	0	0	0								
	DT	0	0	0	0	0	0	0	0	8.75	0.00	0.00	-		-	
		0	0	0	0	0	0	24	24		202.00	9.80	192.20	-	192.20	

Semana del 04/29/10 al 05/05/10

Payroll
Procaribe (P1003)

(1) Name, Address, and Social Security Number of Employee	(2) No. of Withholding Exemptions	(3) Work Classification	OT or ST	(4) Day and Date TH	FR	SAT	SUN	MON	TUE	WED	(5) Total Hours	(6) Rate of Pay	(7) Gross Amount Earned	(8) Deductions FICA	Withholding Tax	Disability	Total Deductions	(9) Net Wages paid for week	(10) Others Expenses Gas Auto, Etc.	(11) Total Paid
Juan H. Lopez Candelario Bo. Santo Domingo II Casa 9 Peñuelas, PR 00624 Social Security: xxx-xx-0173		Supervisor	ST	0	8	0	0	8	8	8										
			OT	0	0	0	0	0	0	0										
			DT	0	0	0	0	0	0	0	32	8.00	256.00	19.58	12.80		32.38	223.62		223.62
Harris Morales Tallaboa Alta IV Sector La Moca # 438 Peñuelas, PR 00624 Social Security: xxx-xx-2114		Laborer	ST	0	8	0	0	8	0	0										
			OT	0	0	0	0	0	0	0										
			DT	0	0	0	0	0	0	0	16	8.00	128.00	9.79	6.40		16.19	111.81	-	111.81
Sánchez Gómez, José HC 08 Box 2225 Ponce, PR 00731 Social Security: 582-84-0463		Laborer	ST	0	0	0	0	0	0	0										
			OT	0	0	0	0	0	0	0										
			DT	0	0	0	0	0	0	0	0	9.00	0.00	12.84	8.39		21.23	-21.23	-	(21.23)
Christopher Lugo Quintas del Sur C9530 Ponce, PR 00728 Social Security: 584-87-3648 Son 5 hrs del 4/26 & 5 hrs 4/27		Project Manager Assistant	ST	5	5	8	0	8	0	0										
			OT	0	0	0	0	0	0	0										
			DT	0	0	0	0	0	0	0	26	10.50	273.00	20.88	13.65		-	273.00	0.00	273.00
			ST	0	0	0	0	0	0	0										
			OT	0	0	0	0	0	0	0										
			DT	0	0	0	0	0	0	0	0	0.00	0.00	-	0.00		-	0.00	0.00	-
			ST	0	0	0	0	0	0	0										
			OT	0	0	0	0	0	0	0										
			DT	0	0	0	0	0	0	0	0	0.00	0.00	-	0.00		-	0.00	45.00	45.00
	TOTALS			5	21	8	0	24	8	8	74		657.00	63.10	41.24	-	69.81	587.19	45.00	632.19

RX 6

CONFIDENTIAL & PRIVILEDGE

Semana del 04/29/10 al 05/05/10

CONTRATISTAS
Procaribe 1003

(1) Name, Address, and Social Security Number of Employee	OT or ST	(4) Day and Date TH	FR	SAT	SUN	MON	TUE	WED	(8) Total Hours	(6) Rate of Pay	(7) Gross Amount Earned	Withholding Tax (8)	(9) Net Wages paid for week	(10) Others Expenses Gas Auto, Etc.	(11) Total Paid	CK
Carlos Pizarro	ST	0	0	0	0	8	0	0								
	OT	0	0	0	0	0	0	0								
	DT	0	0	0	0	0	0	0	8	7.50	60.00	4.20	55.80		55.80	
Juan Domenech	ST	0	8	0	0	0	8	0								
	OT	0	0	0	0	0	0	0								
	DT	0	0	0	0	0	0	0	16	10.00	160.00	11.20	148.80		148.80	
Julio Gonzalez	ST	0	8	0	0	0	0	0								
	OT	0	0	0	0	0	0	0								
	DT	0	0	0	0	0	0	0	8	7.75	62.00	0.00	62.00		62.00	
		0	16	0	0	8	8	0	32		282.00	15.40	266.60	-	266.60	

CONFIDENTIAL & PRIVILEDGE

Semana del 05/06/12 @ 05/12/10

Payroll
Procaribe (P1003)

(1) Name, Address, and Social Security Number of Employee	(2) No. of Withholding Exemptions	(3) Work Classification	OT or ST	(4) Day and Date TH	FR	SAT	SUN	MON	TUE	WED	(8) Total Hours	(6) Rate of Pay	(7) Gross Amount Earned	(8) Deductions FICA	Withholding Tax	Disability	Total Deductions	(9) Net Wages paid for week	(10) Others Expenses Gas Auto, Etc.	(11) Total Paid
Juan H. Lopez Candelario **Bo. Santo Domingo II Casa 9** **Peñuelas, PR 00624** **Social Security: xxx-xx-0173**		**Supervisor**	**ST**	**8**	**8**	**0**	**0**	**8**	**8**	**8**										
			OT	**0**	**0**	**0**	**0**	**0**	**0**	**0**										
			DT	**0**	**0**	0	**0**	**0**	**0**	**0**	**40**	**8.00**	**320.00**	**24.48**	**16.00**		**40.48**	**279.52**		**279.52**
Harris Morales Tallaboa Alta IV Sector La Moca # 438 Peñuelas, PR 00624 Social Security: xxx-xx-2114			ST	0	0	0	0	0	0	0										
			OT	0	0	0	0	0	0	0										
		Laborer	DT	0	0	0	0	0	0	0	0	8.00	0.00	-	0.00		-	0.00	-	-
Sánchez Gómez, José HC 06 Box 2225 Ponce, PR 00731 Social Security: 582-84-0463			ST	0	0	0	0	0	0	0										
			OT	0	0	0	0	0	0	0										
		Laborer	DT	0	0	0	0	0	0	0	0	9.00	0.00	12.84	8.39		21.23	-21.23	-	(21.23)
Christopher Lugo Quintas del Sur C9530 Ponce, PR 00728 Social Security: 584-87-3648			ST	0	0	0	0	0	0	0										
			OT	0	0	0	0	0	0	0										
		Project Manager Assistant	DT	0	0	0	0	0	0	0	0	10.50	0.00	-	0.00		-	0.00	0.00	-
			ST	0	0	0	0	0	0	0										
			OT	0	0	0	0	0	0	0										
			DT	0	0	0	0	0	0	0	0	0.00	0.00	-	0.00		-	0.00	0.00	-
			ST	0	0	0	0	0	0	0										
			OT	0	0	0	0	0	0	0										
			DT	0	0	0	0	0	0	0	0	0.00	0.00	-	0.00		-	0.00	45.00	45.00
	TOTALS			8	8	0	0	8	8	8	40		320.00	37.32	24.39	-	61.71	258.29	45.00	303.29

RX 6
001151

CONFIDENTIAL & PRIVILEDGE

Semana del 05/13/10 @ 05/19/10

Payroll
Procaribe (P1003)

(1) Name, Address, and Social I	(2) No. of Withholding Exemptions	(3) Work Classification	OT or ST	(4) Day and Date TH	FR	SAT	SUN	MON	TUE	WED	(5) Total Hours	(6) Rate of Pay	(7) Gross Amount Earned	(8) Deductions FICA	Withholding Tax	Disability	Total Deductions	(9) Net Wages paid for week	(10) Others Expenses Gas Auto, Etc.	(11) Total Paid
Juan H. Lopez Candelario **Bo. Santo Domingo II Casa 9** **Peñuelas, PR 00624** **Social Security: xxx-xx-0173**		**Supervisor**	**ST**	**8**	**8**	**0**	**0**	**8**	**8**	**8**										
				0	**0**	**0**	**0**	**0**	**0**	**0**										
			OT	**0**	**0**	**0**	**0**	**0**	**0**	**0**										
			DT	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**40**	**8.00**	**320.00**	**24.48**	**16.00**		**40.48**	**279.52**		**279.52**
Harris Morales Tallaboa Alta IV Sector La Moca # 438 Peñuelas, PR 00624 Social Security: xxx-xx-2114			ST	0	0	0	0	0	0	0										
				0	0	0	0	0	0	0										
			OT	0	0	0	0	0	0	0										
		Laborer	DT	0	0	0	0	0	0	0	0	8.00	0.00	-	0.00		-	0.00	-	-
Sánchez Gómez, José HC 06 Box 2225 Ponce, PR 00731 Social Security: 582-84-0463			ST	0	0	0	0	0	0	0										
				0	0	0	0	0	0	0										
			OT	0	0	0	0	0	0	0										
		Laborer	DT	0	0	0	0	0	0	0	0	9.00	0.00	12.84	8.39		21.23	-21.23	-	(21.23)
Christopher Lugo Quintas del Sur C9530 Ponce, PR 00728 Social Security: 584-87-3648			ST	0	0	0	0	0	0	0										
				0	0	0	0	0	0	0										
		Project Manager Assistant	OT	0	0	0	0	0	0	0										
			DT	0	0	0	0	0	0	0	0	10.50	0.00	-	0.00		-	0.00	0.00	-
			ST	0	0	0	0	0	0	0										
				0	0	0	0	0	0	0										
			OT	0	0	0	0	0	0	0										
			DT	0	0	0	0	0	0	0	0	0.00	0.00	-	0.00		-	0.00	0.00	-
			ST	0	0	0	0	0	0	0										
				0	0	0	0	0	0	0										
			OT	0	0	0	0	0	0	0										
			DT	0	0	0	0	0	0	0	0	0.00	0.00	-	0.00		-	0.00	45.00	45.00
	TOTALS			8	8	0	0	8	8	8	40		320.00	37.32	24.39	-	61.71	258.29	45.00	303.29

CONFIDENTIAL & PRIVILEDGE

Semana del 05/20/10 @ 05/26/10

Payroll
Procaribe (P1003)

(1) Name, Address, and Social I	(2) No. of Withholding Exemptions	(3) Work Classification	OT or ST	(4) Day and Date TH	FR	SAT	SUN	MON	TUE	WED	(8) Total Hours	(6) Rate of Pay	(7) Gross Amount Earned	(8) Deductions FICA	Withholding Tax	Dissability	Total Deductions	(9) Net Wages paid for week	(10) Others Expenses Gas Auto, Etc.	(11) Total Paid
Juan H. Lopez Candelario **Bo. Santo Domingo II Casa 9** **Peñuelas, PR 00624** **Social Security: xxx-xx-0173**		**Supervisor**	**ST**	**8**	**8**	**0**	**0**	**8**	**8**	**8**										
			OT	**0**	**0**	**0**	**0**	**0**	**0**	**0**										
			DT	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**40**	**8.00**	**320.00**	**24.48**	**16.00**		**40.48**	**279.52**		**279.52**
Harris Morales Tallaboa Alta IV Sector La Moca # 438 Peñuelas, PR 00624 Social Security: xxx-xx-2114			ST	0	0	0	0	0	0	0										
			OT	0	0	0	0	0	0	0										
		Laborer	DT	0	0	0	0	0	0	0	0	8.00	0.00	-	0.00		-	0.00	-	-
Sánchez Gómez, José HC 06 Box 2225 Ponce, PR 00731 Social Security: 582-84-0463			ST	0	0	0	0	0	0	0										
			OT	0	0	0	0	0	0	0										
		Laborer	DT	0	0	0	0	0	0	0	0	9.00	0.00	12.64	8.39		21.23	-21.23	-	(21.23)
Christopher Lugo Quintas del Sur C9530 Ponce, PR 00728 Social Security 584-87-3648			ST	0	0	0	0	0	0	0										
			OT	0	0	0	0	0	0	0										
		Project Manager Assistant	DT	0	0	0	0	0	0	0	0	10.50	0.00	-	0.00		-	0.00	0.00	-
			ST	0	0	0	0	0	0	0										
			OT	0	0	0	0	0	0	0										
			DT	0	0	0	0	0	0	0	0	0.00	0.00	-	0.00		-	0.00	0.00	-
			ST	0	0	0	0	0	0	0										
			OT	0	0	0	0	0	0	0										
			DT	0	0	0	0	0	0	0	0	0.00	0.00	-	0.00		-	0.00	45.00	45.00
	TOTALS			8	8	0	0	8	8	8	40		320.00	37.32	24.39	-	61.71	258.29	45.00	303.29

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CONFIDENTIAL & PRIVILEDGE

Semana del 05/26/10 @ 6/2/10

Payroll
Procaribe (P1003)

(1) Name, Address, and Social	(2) No. of Withholding Exemptions	(3) Work Classification	OT or ST	(4) Day and Date TH	FR	SAT	SUN	MON	TUE	WED	(5) Total Hours	(6) Rate of Pay	(7) Gross Amount Earned	(8) Deductions FICA	Withholding Tax	Disability	Total Deductions	(9) Net Wages paid for week	(10) Others Expenses Gas Auto, Etc.	(11) Total Paid
Juan H. Lopez Candelario **Bo. Santo Domingo II Casa 9** **Peñuelas, PR 00624** **Social Security: xxx-xx-0173**		**Supervisor**	**ST**	**8**	**8**	**0**	**0**	**8**	**8**	**8**										
			OT	**0**	**0**	**0**	**0**	**0**	**0**	**0**										
			DT	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**40**	**8.00**	**320.00**	**24.48**	**16.00**		**40.48**	**279.52**		**279.52**
Harris Morales Tallaboa Alta IV Sector La Moca # 438 Peñuelas, PR 00624 Social Security: xxx-xx-2114			ST	0	0	0	0	0	0	0										
			OT	0	0	0	0	0	0	0										
		Laborer	DT	0	0	0	0	0	0	0	0	8.00	0.00	-	0.00		-	0.00	-	-
Sánchez Gómez, José HC 06 Box 2225 Ponce, PR 00731 Social Security: 582-84-0463			ST	0	0	0	0	0	0	0										
			OT	0	0	0	0	0	0	0										
		Laborer	DT	0	0	0	0	0	0	0	0	9.00	0.00	12.84	8.39		21.23	-21.23	-	(21.23)
Christopher Lugo Quintas del Sur C9530 Ponce, PR 00728 Social Security: 584-87-3648			ST	0	0	0	0	0	0	0										
			OT	0	0	0	0	0	0	0										
		Project Manager Assistant	DT	0	0	0	0	0	0	0	0	10.50	0.00	-	0.00		-	0.00	0.00	-
			ST	0	0	0	0	0	0	0										
			OT	0	0	0	0	0	0	0										
			DT	0	0	0	0	0	0	0	0	0.00	0.00	-	0.00		-	0.00	0.00	-
			ST	0	0	0	0	0	0	0										
			OT	0	0	0	0	0	0	0										
			DT	0	0	0	0	0	0	0	0	0.00	0.00	-	0.00		-	0.00	45.00	45.00
		TOTALS		8	8	0	0	8	8	8	40	-	320.00	37.32	24.39	-	61.71	258.29	45.00	303.29

RX 6

CONFIDENTIAL & PRIVILEDGE

Semana del 6/3/10 @ 6/9/10

Payroll
Procaribe (P1003)

(1) Name, Address, and Social I	(2) No. of Withholding Exemptions	(3) Work Classification	OT or ST	(4) Day and Date TH	FR	SAT	SUN	MON	TUE	WED	(5) Total Hours	(6) Rate of Pay	(7) Gross Amount Earned	(8) Deductions FICA	Withholding Tax	Disability	Total Deductions	(9) Net Wages paid for week	(10) Others Expenses Gas Auto, Etc.	(11) Total Paid
Juan H. Lopez Candelario **Bo. Santo Domingo II Casa 9** **Peñuelas, PR 00624** **Social Security: xxx-xx-0173**		**Supervisor**	**ST**	**8**	**8**	**0**	**0**	**8**	**8**	**8**										
				0	**0**	**0**	**0**	**0**	**0**	**0**										
			OT	**0**	**0**	**0**	**0**	**0**	**0**	**0**										
			DT	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**40**	**8.00**	**320.00**	**24.48**	**16.00**		**40.48**	**279.52**		**279.52**
Harris Morales Tallaboa Alta IV Sector La Moca # 438 Peñuelas, PR 00624 Social Security: xxx-xx-2114			ST	0	0	0	0	0	0	0										
				0	0	0	0	0	0	0										
			OT	0	0	0	0	0	0	0										
		Laborer	DT	0	0	0	0	0	0	0	0	8.00	0.00	-	0.00		-	0.00	-	-
Sánchez Gómez, José HC 06 Box 2225 Ponce, PR 00731 Social Security: 582-84-0463			ST	0	0	0	0	0	0	0										
				0	0	0	0	0	0	0										
			OT	0	0	0	0	0	0	0										
		Laborer	DT	0	0	0	0	0	0	0	0	9.00	0.00	12.84	8.39		21.23	-21.23	-	(21.23)
Christopher Lugo Quintas del Sur C9530 Ponce, PR 00728 Social Security: 584-87-3648			ST	0	0	0	0	0	0	0										
				0	0	0	0	0	0	0										
			OT	0	0	0	0	0	0	0										
		Project Manager Assistant	DT	0	0	0	0	0	0	0	0	10.50	0.00	-	0.00		-	0.00	0.00	-
			ST	0	0	0	0	0	0	0										
				0	0	0	0	0	0	0										
			OT	0	0	0	0	0	0	0										
			DT	0	0	0	0	0	0	0	0	0.00	0.00	-	0.00		-	0.00	0.00	-
			ST	0	0	0	0	0	0	0										
				0	0	0	0	0	0	0										
			OT	0	0	0	0	0	0	0										
			DT	0	0	0	0	0	0	0	0	0.00	0.00	-	0.00		-	0.00	45.00	45.00
	TOTALS			8	8	0	0	8	8	8	40		320.00	37.32	24.39	-	61.71	258.29	45.00	303.29

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CONFIDENTIAL & PRIVILEDGE

Semana del 6/10/10 @ 6/16/10

Payroll
Procaribe (P1003)

(1) Name, Address, and Social !	(2) No. of Withholding Exemptions	(3) Work Classification	OT or ST	(4) Day and Date TH	FR	SAT	SUN	MON	TUE	WED	(8) Total Hours	(6) Rate of Pay	(7) Gross Amount Earned	(8) Deductions FICA	Withholding Tax	Disability	Total Deductions	(9) Net Wages paid for week	(10) Others Expenses Gas Auto, Etc.	(11) Total Paid
Juan H. Lopez Candelario **Bo. Santo Domingo II Casa 9** **Peñuelas, PR 00624** **Social Security: xxx-xx-0173**		**Supervisor**	**ST**	**8**	**8**	**0**	**0**	**8**	**8**	**0**										
			OT	**0**	**0**	**0**	**0**	**0**	**0**	**0**										
			DT	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**32**	**8.00**	**256.00**	**19.58**	**12.80**		**32.38**	**223.62**		**223.62**
Harris Morales Tallaboa Alta IV Sector La Moca # 438 Peñuelas, PR 00624 Social Security: xxx-xx-2114			ST	0	0	0	0	0	0	0										
			OT	0	0	0	0	0	0	0										
		Laborer	DT	0	0	0	0	0	0	0	0	8.00	0.00	-	0.00		-	0.00	-	-
Sánchez Gómez, José HC 06 Box 2225 Ponce, PR 00731 Social Security: 582-84-0463			ST	0	0	0	0	0	0	0										
			OT	0	0	0	0	0	0	0										
		Laborer	DT	0	0	0	0	0	0	0	0	9.00	0.00	12.84	8.39		21.23	-21.23	-	(21.23)
Christopher Lugo **Quintas del Sur C9530** **Ponce, PR 00728** **Social Security: 584-87-3648**		**Project Manager Assistant**	**ST**	**0**	**0**	**0**	**0**	**8**	**8**	**0**										
			OT	**0**	**0**	**0**	**0**	**0**	**0**	**0**										
			DT	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**16**	**10.50**	**168.00**	**12.85**	**8.40**		**-**	**168.00**	**0.00**	**168.00**
			ST	0	0	0	0	0	0	0										
			OT	0	0	0	0	0	0	0										
			DT	0	0	0	0	0	0	0	0	0.00	0.00	-	0.00		-	0.00	0.00	-
			ST	0	0	0	0	0	0	0										
			OT	0	0	0	0	0	0	0										
			DT	0	0	0	0	0	0	0	0	0.00	0.00	-	0.00		-	0.00	45.00	45.00
	TOTALS			8	8	0	0	16	16	0	48		424.00	45.28	29.59	-	53.61	370.39	45.00	415.39

001156 RX 6

CONFIDENTIAL & PRIVILEDGE

PROCARIBE
A DIVISION OF
Terminal Acquisition Company, Inc.

8 de septiembre de 2011

Estimado Señores (as):

Proyecto: **Desmantelamiento Antiguas Facilidades PR Olefins**
Carretera 127 KM 19.1 Bo. Tallaboa Poniente
Sector El Pueblito
Peñuelas, PR 00624

Tallaboa Industrial Park, autorizó a Homeca Recycling Center Co., Inc. a ser nuestro representante para poder realizar los trámites necesarios para la obtención de los permisos para desmantelar las estructuras del proyecto de referencia.

Esperamos los permisos a solicitar puedan ser otorgados. De necesitar información adicional favor comunicarse al 787-836-3007.

Cordialmente,

Roberto Aponte, PE
Gerente General

Postal Address: Firm Delivery - Peñuelas, PR 00624 Tel. (787) 836-3007 / Fax (787) 836-5712 - Terminal Address: Road 386 Km 5.4, Bo. Tallaboa, Peñuelas, PR 00624
CONFIDENTIAL - SUBJECT TO PROTECTIVE ORDER

CSP-CE-001

Estado Libre Asociado de Puerto Rico
Comisión de Servicio Público
PO BOX 190870
San Juan, P.R. 00919-0870

CERTIFICACION DE TRAMITE DE AVISO DE EXCAVACION Y/O DEMOLICION

☑ Inicial ☐ 1era extensión ☐ 2da extensión

NUMERO DE CONTROL: 2012-861 FECHA PRESENTACION: 05/07/2012 (MES/DIA/AÑO)

NOMBRE DE LA COMPAÑIA: HOMECA RECYCLING CENTER, INC.

DIRECCION DE LA EXCAVACION Y/O DEMOLICION:

BO. TALLABOA PONIENTE C/ EL PUEBLITO CARR. 127, KM 19, HM 1, Peñuelas PR

FECHA COMIENZO: 05/12/2012 (MES/DIA/AÑO) FECHA EXPIRACION: 07/11/2012 (MES/DIA/AÑO)

HORARIO: 7:00 A 4:00PM

MAQUINARIA ☑ Si ☐ No

DESCRIPCION EXCAVADORA

EXPLOSIVOS: ☐ Si ☑ No

DESCRIPCION:

Cristobal Ortiz Roman

FIRMA DEL FUNCIONARIO QUE TRAMITO EL AVISO

SELLO OFICIAL

05/07/2012

FECHA

Advertencia: Esta certificación no constituye un permiso para excavar dentro de la jurisdicción del Gobierno de Puerto Rico. La misma deberá ser mostrada a requerimiento de la Policía de P.R., El Cuerpo de Bomberos, Oficiales del Cuerpo de Ordenamiento del Tránsito del Departamento de Transportación y Obras Públicas, La Policía Municipal y/o Oficiales de la Comisión de Servicio Público.

"SIRVIENDO CON HONRADEZ Y SERIEDAD"

001158

CONFIDENTIAL TREATMENT REQUESTED

Meeting Roster for Puerto Rico Olefins Asbestos Incident

Date: January 8, 2014
Place: EPA-CEPD Office

NAME	ORGANIZATION	EMAIL	TELEPHONE
Gerardo Gonzalez	Tallaboa Industrial	jerrygon 6004@yahoo.com	(787)643-3730
Carlos M Rivera	U.S. EPA Region 2	rivera.carlos@epa.gov	(787) 977-5844
Angel C. Rodriguez	USEPA-R2	rodriguez.angel@epa.gov	(787)977-5830 C. 671-8093
Ramon Torres	USEPA - CEPD	torres.ramon@epa.gov	787-977-5807
Jose C. Font	USEPA - CEPD	font.jose@epa.gov	787-977-5865
Hector L. Velez Cruz	USEPA - ORC	velez.hector@epa.gov	787-977-5850
Evelyn Rivera-Ocasio	USEPA-ORC	rivera-ocasio.evelyn@epa.gov	787-977-5859
ADOLFO VALDES AGUAT	TPI	taagroup2@gmail	(787) 604-0279

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CONFIDENTIAL & PRIVILEDGE

Meeting Roster for Puerto Rico Olefins Asbestos Incident

Date: January 8, 2014
Place: EPA-CEPD Office

NAME	ORGANIZATION	EMAIL	TELEPHONE
Joe Raffola	Removal Branch EPA Edison, NJ		
Eric Wilson	Removal Branch EPA Edison, NJ		
Chuck Nace	Technical Support Team ERRD - Region 2 EPA	(Risk Assessor)	
Jill Dyken	ATSDR - Atlanta		
Lea Graciano	ATSDR - Region 2		
Elena Vasili	ATSDR - Region 2		
Ramon Gonzalez	Taliabca Ind.		
Roberto Aponte	Talleca Ind.	roberto@procaribe.com	787 636-3007

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CONFIDENTIAL & PRIVILEDGE

THE ATMOSPHERIC ASSESSMENT GROUP

Adolfo Valdés Agrait
Senior Partner
P. O. Box 219
Mercedita, Puerto Rico 00715-0219

Environmental, Safety and Health
Consultant and Training Facility
e-mail: taagroup@prtc.net
(787) 842-8592/504-0279

October 31st, 2011

Ing. Luzdellys Echevarría, Project Manager
HOMECA Recycling, Inc.
155 Munoz Rivera Ave. PMB 120
Ponce, Puerto Rico 00717-0211

RE: Environmental Assessment to Determine the Presence and Concentration of Lead Based Paint (LBP) in the Former Puerto Rico Olefins (PRO) Facilities

Dear Mrs. Echevarria:

The enclosed report contains our findings during the assessment to determine the presence and the concentration of Lead Based Paint (LBP) in the Former Puerto Rico Olefins Facilities, in Tallaboa, Puerto Rico. The assessment was conducted during the month of October 2011, by EQB Certified Lead Based Inspectors.

The results demonstrate that several of the structural components in the facility contain Leaded Based Paint (LBP).

We appreciate the opportunity to work with you in this assignment.

Cordially,

Adolfo Valdés Agrait, M. Sc.
Enclosure: TAAG Report

THE ATMOSPHERIC ASSESSMENT GROUP

Adolfo Valdés Agrait
Senior Partner
P. O. Box 219
Mercedita, Puerto Rico 00715-0219

Environmental, Safety and Health
Consultant and Training Facility
e-mail: taagroup@prtc.net
(787) 842-8592/504-0279

~ENVIRONMENTAL ASSESSMENT REPORT~

DETERMINATION OF THE PRESENCE AND THE CONCENTRATION OF LEAD BASE PAINT (LBP) IN THE FORMER PUERTO RICO OLEFINNS FACILITIES IN TALLABOA, PUERTO RICO

Prepared for: Ing. Luzdellys Echevarría, Project Manager
HOMECA Recycling, Inc.
155 Munoz Rivera Ave. PMB 120
Ponce, Puerto Rico 00717-0211

Prepared by:
Adolfo Valdés Agrait, M. Sc. Chemist

TABLE OF CONTENTS

1.0 Project Objective

2.0 Lead Based Paint (LBP) Background Information

3.0 Lead Assessment Results

Appendix A	Company and Inspector Certificates
Appendix B	LPA-1 Specification Sheet
Appendix C	Assessment Results Tables
Appendix D	Assessment Photo Log

1.0 PROJECT OBJECTIVE

The purpose of the survey was to determine the presence of LBP in the structural components following the requirements described in the Guidelines for the Evaluation and Control of Lead Based Paint in Housing, H.U.D. Chapter 7, 1997 revision – 40 CFR 61. This survey was by conducted by Mr. Marcos R. M. Valdes Irizarry during the month of October 2011. The Environmental Quality Board Lead based Paint Inspector credentials are included in appendix B.

2.0 LEAD BASED PAINT BACKGROUND INFORMATION

Lead Based paint has been defined by the Department of Housing and Urban Development as 1.0 mg/cm^2 as measured by XRF instrument or Atomic Absorption Spectroscopy (AAS) or 0.5% by weight (5,000 ppm) as measured by AAS or Inductive Coupled Plasma (ICP). The same level was adopted by EPA regulations published in 1992, under Title X. The survey was conducted following the HUD/EPA Guidelines for the Evaluation and Control of Lead Based Paint.

The following guidelines were used to perform LBP testing:

1. Perform inventory of all testing combinations
2. Select painted area to be tested
3. Perform XRF testing (including calibration checks).
4. Review and evaluate the result
5. Report results

3.0 LEAD BASED PAINT (LBP) RESULTS

A total of one thousand eight hundred eighty two (1,882) testing combinations were tested using a Model LPA-1, X-Ray Fluorescence instrument (XRF) manufactured Radiation Monitoring Devices Corporation. The XRF instrument was set at Quick Mode to obtain readings with a 95% confidence level. Results are expressed as concentration in mg/cm^2.

Company certifications are presented in Appendix A. Appendix B presents the instrument Specification Sheet. The XRF results are shown in Appendix C. Lead based Paint photo log is shown in Appendix D.

APPENDIX A

Company and Inspector Certificates

ESTADO LIBRE ASOCIADO DE PUERTO RICO
OFICINA DEL GOBERNADOR
JUNTA DE CALIDAD AMBIENTAL

Este certificado es otorgado a:

The Atmospheric Assessment Group
(# s.social: 660-53-7474)

Por haber cumplido con los requisitos establecidos en el Capítulo V, Regla 1541, sección B(2) del Reglamento para el Control de Actividades de Mitigación de Pintura con Base de Plomo. Se le otorga una certificación en la disciplina de

Empresa

Para llevar a cabo actividades de mitigación de pintura con base de plomo en la jurisdicción de Puerto Rico

Número de Certificado
2537 – 0811 – LF - 001

Este certificado está sujeto a ser revocado, suspendido, modificado o enmendado debido a causas que incluyan evidencia de no cumplimiento, información falsa provista en la solicitud o por cualquier alteración que afecte la habilidad de llevar a cabo las tareas efectivamente.

Fecha de emisión: 25 de agosto de 2011
Fecha de expiración: 24 de agosto de 2012

Lcdo. Pedro J. Nieves Miranda
Presidente

CONFIDENTIAL
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RX 6
001168

Inspector

APPENDIX B

Instrument Specification Sheet

Performance Characteristic Sheet

EFFECTIVE DATE: December 1, 2006 **EDITION NO.: 5**

MANUFACTURER AND MODEL:

Make: ***Radiation Monitoring Devices***
Model: ***LPA-1***
Source: ^{57}Co
Note: This sheet supersedes all previous sheets for the XRF instrument of the make, model, and source shown above ***for instruments sold or serviced after June 26, 1995. For other instruments, see prior editions.***

FIELD OPERATION GUIDANCE

OPERATING PARAMETERS:

Quick mode or 30-second equivalent standard (Time Corrected) mode readings.

XRF CALIBRATION CHECK LIMITS:

0.7 to 1.3 mg/cm^2 (inclusive)

SUBSTRATE CORRECTION:

For XRF results below 4.0 mg/cm^2, substrate correction is recommended for:

Metal using 30-second equivalent standard (Time Corrected) mode readings.
None using quick mode readings.

Substrate correction is not needed for:

Brick, Concrete, Drywall, Plaster, and Wood using 30-second equivalent standard (Time Corrected) mode readings
Brick, Concrete, Drywall, Metal, Plaster, and Wood using quick mode readings

THRESHOLDS:

30-SECOND EQUIVALENT STANDARD MODE READING DESCRIPTION	SUBSTRATE	THRESHOLD (mg/cm^2)
Results corrected for substrate bias on metal substrate only	Brick	1.0
	Concrete	1.0
	Drywall	1.0
	Metal	0.9
	Plaster	1.0
	Wood	1.0

QUICK MODE READING DESCRIPTION	SUBSTRATE	THRESHOLD (mg/cm^2)
Readings not corrected for substrate bias on any substrate	Brick	1.0
	Concrete	1.0
	Drywall	1.0
	Metal	1.0
	Plaster	1.0
	Wood	1.0

BACKGROUND INFORMATION

EVALUATION DATA SOURCE AND DATE:

This sheet is supplemental information to be used in conjunction with Chapter 7 of the HUD *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing* ("HUD Guidelines"). Performance parameters shown on this sheet are calculated from the EPA/HUD evaluation using archived building components. Testing was conducted on approximately 150 test locations in July 1995. The instrument that performed testing in September had a new source installed in June 1995 with 12 mCi initial strength.

OPERATING PARAMETERS:

Performance parameters shown in this sheet are applicable only when properly operating the instrument using the manufacturer's instructions and procedures described in Chapter 7 of the HUD Guidelines.

XRF CALIBRATION CHECK:

The calibration of the XRF instrument should be checked using the paint film nearest 1.0 mg/cm^2 in the NIST Standard Reference Material (SRM) used (e.g., for NIST SRM 2579, use the 1.02 mg/cm^2 film).

If readings are outside the acceptable calibration check range, follow the manufacturer's instructions to bring the instruments into control before XRF testing proceeds.

SUBSTRATE CORRECTION VALUE COMPUTATION :

Chapter 7 of the HUD Guidelines provides guidance on correcting XRF results for substrate bias. Supplemental guidance for using the paint film nearest 1.0 mg/cm^2 for substrate correction is provided:

XRF results are corrected for substrate bias by subtracting from each XRF result a correction value determined separately in each house for single-family housing or in each development for multifamily housing, for each substrate. The correction value is an average of XRF readings taken over the NIST SRM paint film nearest to 1.0 mg/cm^2 at test locations that have been scraped bare of their paint covering. Compute the correction values as follows:

> Using the same XRF instrument, take three readings on a bare substrate area covered with the NIST SRM paint film nearest 1 mg/cm^2. Repeat this procedure by taking three more readings on a second bare substrate area of the same substrate covered with the NIST SRM.
>
> Compute the correction value for each substrate type where XRF readings indicate substrate correction is needed by computing the average of all six readings as shown below.
>
> For each substrate type (the 1.02 mg/cm^2 NIST SRM is shown in this example; use the actual lead loading of the NIST SRM used for substrate correction):
>
> $$\text{Correction value} = (1^{st} + 2^{nd} + 3^{rd} + 4^{th} + 5^{th} + 6^{th}\ \textit{Reading}) / 6 - 1.02\ \text{mg/cm}^2$$
>
> Repeat this procedure for each substrate requiring substrate correction in the house or housing development.

EVALUATING THE QUALITY OF XRF TESTING:

Randomly select ten testing combinations for retesting from each house or from two randomly selected units in multifamily housing. Use either the Quick Mode or 30-second equivalent standard (Time Corrected) Mode readings.

Conduct XRF re-testing at the ten testing combinations selected for retesting.

Determine if the XRF testing in the units or house passed or failed the test by applying the steps below.

Compute the Retest Tolerance Limit by the following steps:

Determine XRF results for the original and retest XRF readings. Do not correct the original or retest results for substrate bias. In single-family and multi-family housing, a result is defined as a single reading. Therefore, there will be ten original and ten retest XRF results for each house or for the two selected units.

Calculate the average of the original XRF result and retest XRF result for each testing combination.

Square the average for each testing combination.

Add the ten squared averages together. Call this quantity C.

Multiply the number C by 0.0072. Call this quantity D.

Add the number 0.032 to D. Call this quantity E.

Take the square root of E. Call this quantity F.

Multiply F by 1.645. The result is the Retest Tolerance Limit.

Compute the average of all ten original XRF results.

Compute the average of all ten re-test XRF results.

Find the absolute difference of the two averages.

If the difference is less than the Retest Tolerance Limit, the inspection has passed the retest. If the difference of the overall averages equals or exceeds the Retest Tolerance Limit, this procedure should be repeated with ten new testing combinations. If the difference of the overall averages is equal to or greater than the Retest Tolerance Limit a second time, then the inspection should be considered deficient.

Use of this procedure is estimated to produce a spurious result approximately 1% of the time. That is, results of this procedure will call for further examination when no examination is warranted in approximately 1 out of 100 dwelling units tested.

BIAS AND PRECISION:

Do not use these bias and precision data to correct for substrate bias. These bias and precision data were computed without substrate correction from samples with reported laboratory results less than 4.0 mg/cm^2 lead. The data which were used to determine the bias and precision estimates given in the table below have the following properties. During the July 1995 testing, there were 15 test locations with a laboratory-reported result equal to or greater than 4.0 mg/cm^2 lead. Of these, one 30-second standard mode reading was less than 1.0 mg/cm^2 and none of the quick mode readings were less than 1.0 mg/cm^2. The instrument that tested in July is representative of instruments sold or serviced after June 26, 1995. These data are for illustrative purposes only. Actual bias must be determined on the site. Results provided above already account for bias and precision. Bias and precision ranges are provided to show the variability found between machines of the same model.

30-SECOND STANDARD MODE READING MEASURED AT	SUBSTRATE	BIAS (mg/cm^2)	PRECISION* (mg/cm^2)
0.0 mg/cm^2	Brick	0.0	0.1
	Concrete	0.0	0.1
	Drywall	0.1	0.1
	Metal	0.3	0.1
	Plaster	0.1	0.1
	Wood	0.0	0.1
0.5 mg/cm^2	Brick	0.0	0.2
	Concrete	0.0	0.2
	Drywall	0.0	0.2
	Metal	0.2	0.2
	Plaster	0.0	0.2
	Wood	0.0	0.2
1.0 mg/cm^2	Brick	0.0	0.3
	Concrete	0.0	0.3
	Drywall	0.0	0.3
	Metal	0.2	0.3
	Plaster	0.0	0.3
	Wood	0.0	0.3
2.0 mg/cm^2	Brick	-0.1	0.4
	Concrete	-0.1	0.4
	Drywall	-0.1	0.4
	Metal	0.1	0.4
	Plaster	-0.1	0.4
	Wood	-0.1	0.4

*Precision at 1 standard deviation.

CLASSIFICATION RESULTS:

XRF results are classified as positive if they are greater than the upper boundary of the inconclusive range, and negative if they are less than the lower boundary of the inconclusive range, or inconclusive if in between. The inconclusive range includes both its upper and lower bounds. Earlier editions of this *XRF Performance Characteristic Sheet* did not include both bounds of the inconclusive range as "inconclusive." While this edition of the Performance Characteristics Sheet uses a different system, the specific XRF readings that are considered positive, negative, or inconclusive for a given XRF model and substrate remain unchanged, so previous inspection results are not affected.

DOCUMENTATION:

An EPA document titled *Methodology for XRF Performance Characteristic Sheets* provides an explanation of the statistical methodology used to construct the data in the sheets, and provides empirical results from using the recommended inconclusive ranges or thresholds for specific XRF instruments. For a copy of this document call the National Lead Information Center Clearinghouse at 1-800-424-LEAD. A HUD document titled *A Nonparametric Method for Estimating the 5th and 95th Percentile Curves of Variable-Time XRF Readings Based on Monotone Regression* provides supplemental information on the methodology for variable-time XRF instruments. A copy of this document can be obtained from the HUD lead web site, www.hud.gov/offices/lead.

This XRF Performance Characteristic Sheet was developed by QuanTech, Inc., under a contract from the U.S. Department of Housing and Urban Development (HUD). HUD has determined that the information provided here is acceptable when used as guidance in conjunction with Chapter 7, Lead-Based Paint Inspection, of HUD's *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing*.

RMD
INSTRUMENTS

Leak Test Certificate

Customer: Enviorecycling,Inc.

System: LPA-1 **Serial Number:** 2445 **Test Date:** 04Nov10

Source Manufacturer: IPL. **Source Model:** A3901-2
Active Material: Co^{57} **Source Activity:** 444 MBq (12 mCi)
Source Serial Num.: G6-279
Assay Date: 23 Feb 10
Source Enclosure: Stainless Steel in Tungsten Holder

Type of Test:	Wipe
Areas Tested and Results:	Front and Sides of Bezel
Results:	All Below .005 µCi

Comments:

Test Performed By: R. Giorgetti

MC170C_R2

44 Hunt Street | Watertown, MA 02472 | (617) 668-6901 | FAX (617) 926-9743 | www.rmd-lpa1.com

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APPENDIX C

Assessment Lead Based Paint Results

Component Description	Substrate	XRF Sampling No.	Result, LBP mg/cm²	Photo No.	Color
Caldera X					
Column	Steel	146	4.4	289	Gray
Traffic Yellow	Concrete	147	5.3	290	Yellow
Tank OTK 709	Steel	148	2.2	291	White
Stair	Steel	149	4.4	294	Gray
2' Pipe	Steel	153	1.9	292	Gray
Traffic Post	Concrete	154	9.9	293	Yellow/Black
Tank OTK 706	Steel	155	5.4	294	White
Tank OTK 704	Steel	156	4.9	295	White
10" Pipe	Steel	156	4.0	296	Gray
Chimney Plataform OH 701	Steel	160	9.1	298	Gray
Stair	Steel	164	4.1	302	Gray
2nd Chimney (Floor Base)	Steel	167	6.9	304	Gray
Stair and Platform	Steel	169	5.2	306	Gray
12" Pipe (South Side)	Steel	171	2.1	308	Gray
Column	Steel	172	4.8	308	Gray

Component Description	Substrate	XRF Sampling No.	Result, LBP mg/cm^2	Photo No.	Color
Caldera A					
Pirncipal Stair	Steel	179	6.0	311	Gray
Platform	Steel	180	7.3	311	Gray
Angular de Tension	Steel	183	2.4	312	Gray
Viga (Exterior)	Steel	184	1.0	313	Gray
Platform (Under Side)	Steel	191	1.0	320	Gray
Fire Blanket	Steel	193	1.0	321	Red

Component Description	Substrate	XRF Sampling No.	Result, LBP mg/cm^2	Photo No.	Color
Caldera C					
8" Pipe	Steel	214	1.1	339	Red
Angular de Tension	Steel	216	2.5	342	Gray
Column	Concrete	217	5.4	342	Concrete
Viga	Steel	219	4.7	342	Gray
Ladder	Steel	224	5.1	347	Gray

Component Description	Substrate	XRF Sampling No.	Result, LBP mg/cm^2	Photo No.	Color
Caldera C-1					
25' Column Ring (12" dia.)	Steel	234	4.4	357	Gray
Pipe 2" next to 25' column	Steel	235	1.3	358	Gray
10" pipe next to 25' column	Steel	239	2.1	365	Gray
6" pipe next to 25' column	Steel	242	1.0	367	Gray
2" pipe next to 25' column	Steel	246	1.4	370	Gray
Column next to outlet c	Steel	247	2.5	371	Gray
Column next to outlet b	Steel	248	1.0	372	Gray
Cilindre buried to the ground	Steel	261	2.3	385	Gray

Component Description	Substrate	XRF Sampling No.	Result, LBP mg/cm^2	Photo No.	Color
Area next to Caldera A					
Metal base (electric switch)	Steel	272	1.0	388	Gray
Fuel gas pipe	Steel	277	2.7	392	Yellow/Gray
Metal column 3039	Steel	278	2.7	391	Gray
Pipe with 4 valve	Steel	279	2.7	394	Gray

Component Description	Substrate	XRF Sampling No.	Result, LBP mg/cm²	Photo No.	Color
Caldera D					
Column PS 31.1 (South)	Concrete	280	2.4	395	Gray
Distribution Pipe	Steel	281	4.3	396	Black
Fire Blanket	Steel	284	1.0	398	Red
Platform Base	Steel	285	1.0	399	Gray

Component Description	Substrate	XRF Sampling No.	Result, LBP mg/cm²	Photo No.	Color
Caldera E					
Distribution Pipe	Steel	300	1.9	411	Black
Plantfrom Base	Steel	302	1.0	413	Gray
Stair NW	Steel	304	1.0	414	Gray

Component Description	Substrate	XRF Sampling No.	Result, LBP mg/cm²	Photo No.	Color
Caldera F					
Distribution Pipe	Steel	311	2.3	417	Black
8" Pipe (Gas)	Steel	312	2.1	417	Black

Component Description	Substrate	XRF Sampling No.	Result, LBP mg/cm^2	Photo No.	Color
Area next to storage building					
Metal structure/frame	Steel	318	3.9	421	Gray

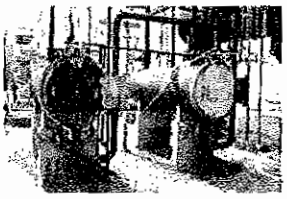
Lead Based Paint (LBP) Assessment Report
Fromer PRO Facilities
Tallaboa, Puerto Rico

Component Description	Substrate	XRF Sampling No.	Result, LBP mg/cm^2	Photo No.	Color
Area back of main entrane					
2" pipe	Steel	326	2.1	428	Gray
Column	Steel	327	3.2	429	Gray
10" pipe	Steel	328	4.0	430	Gray
Stair ext to column 29118	Steel	329	4.5	431	Gray
Valve joint	Steel	330	1.0	432	Black

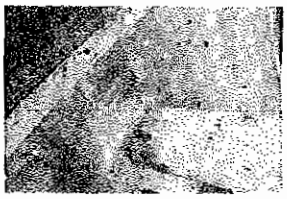
APPENDIX D

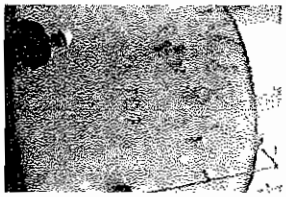
LBP Assessment Photo Log

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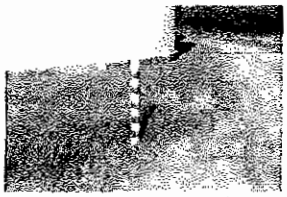

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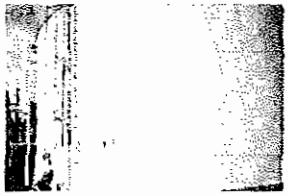

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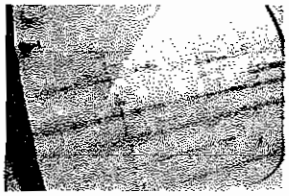

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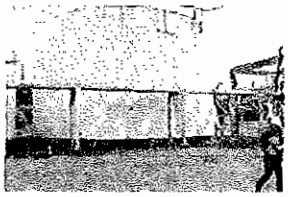

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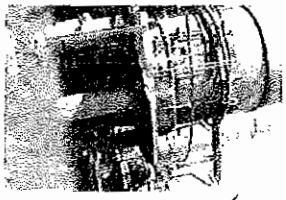

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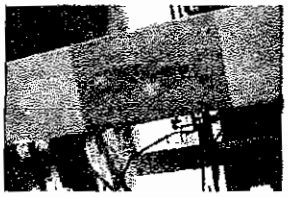

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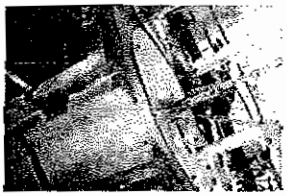

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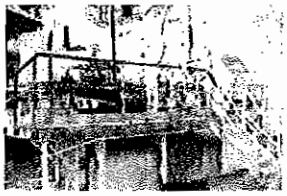

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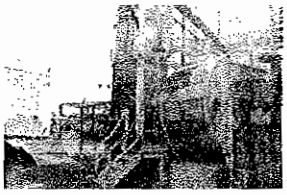

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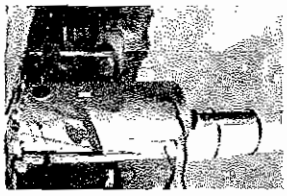

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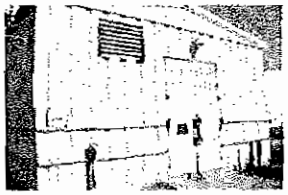

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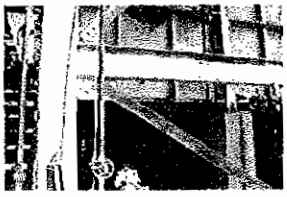

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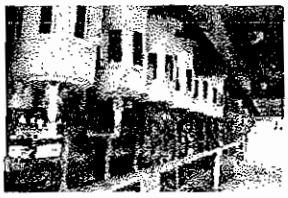

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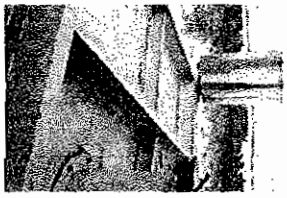

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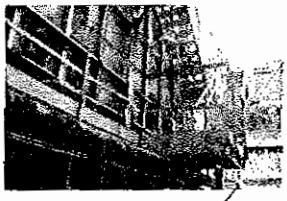

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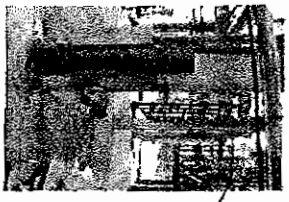

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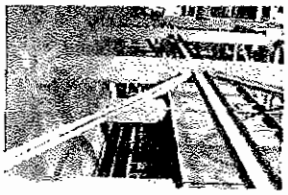

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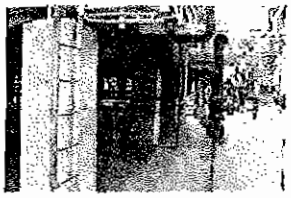

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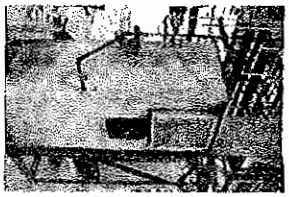

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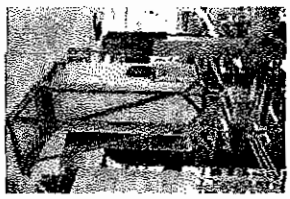

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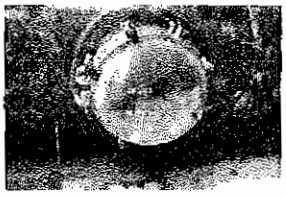

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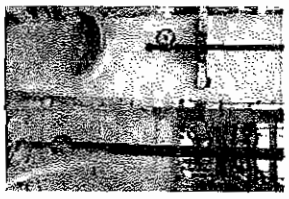

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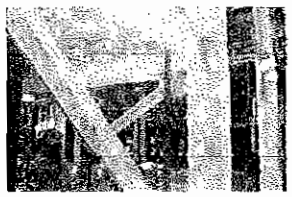

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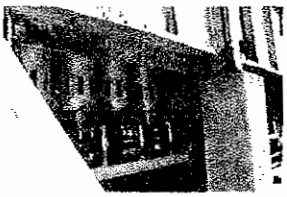

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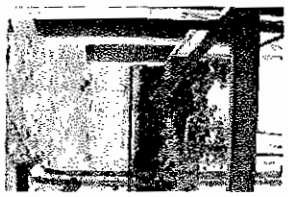

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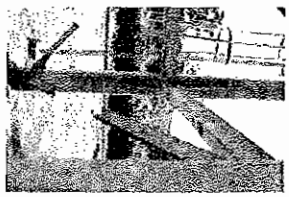

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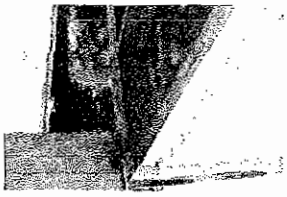

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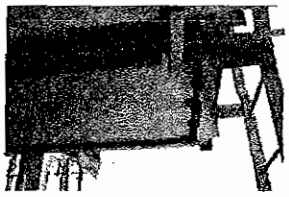

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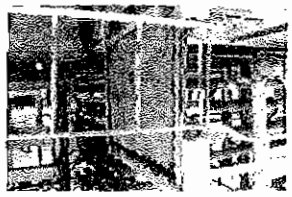

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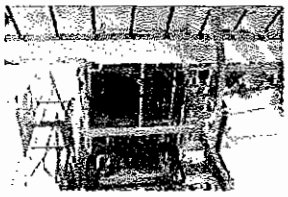

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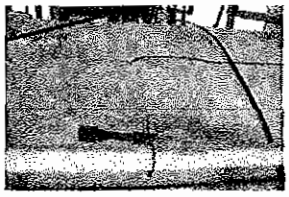

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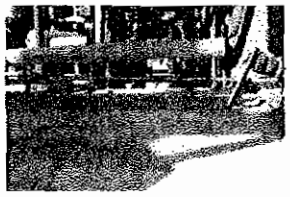

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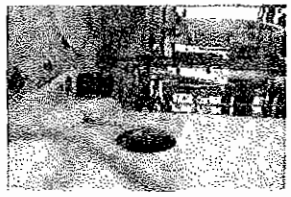

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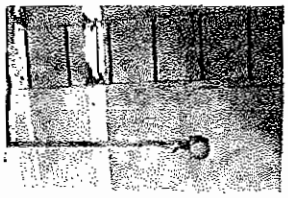

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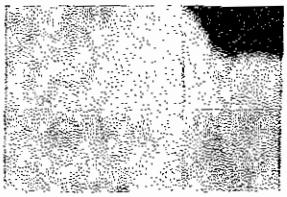

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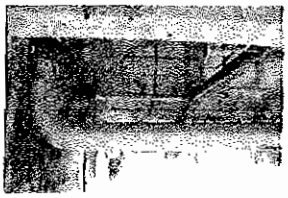

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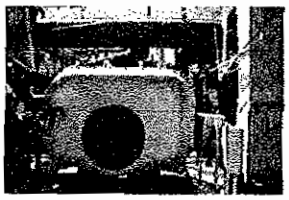

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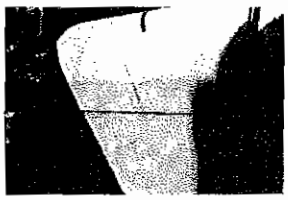

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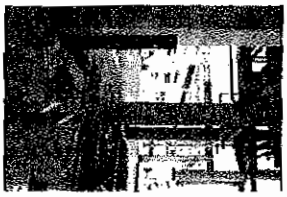

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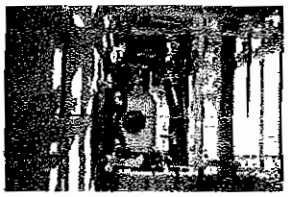

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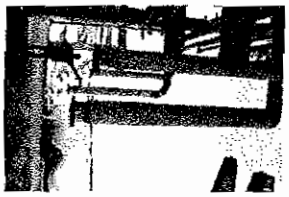

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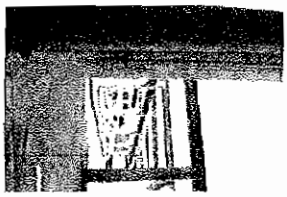

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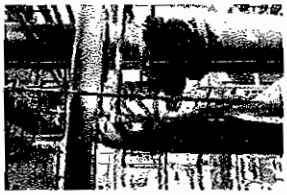

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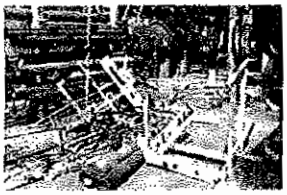

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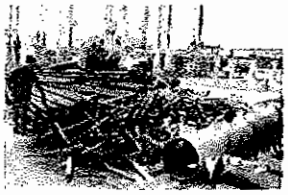

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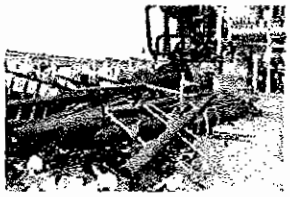

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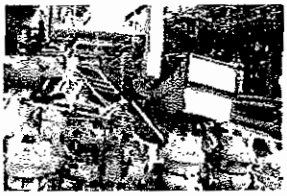

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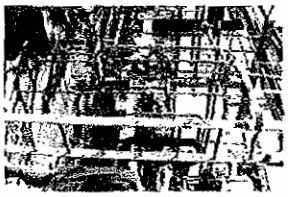

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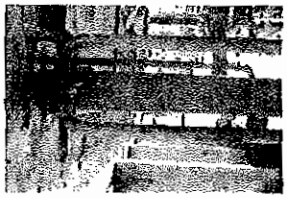

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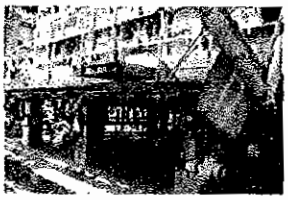

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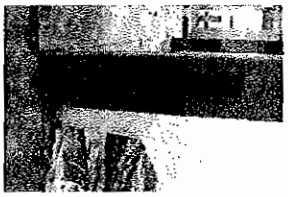

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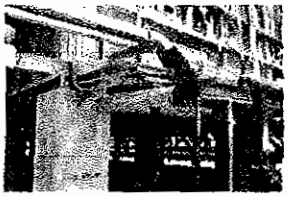

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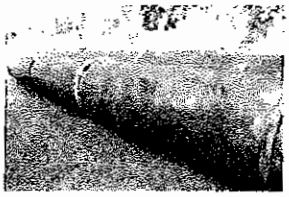

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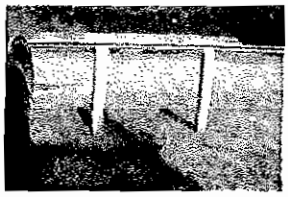

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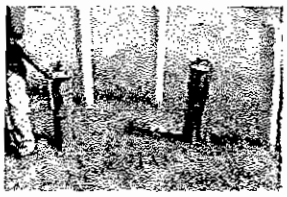

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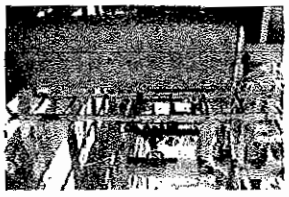

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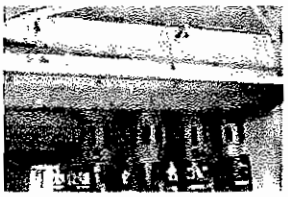

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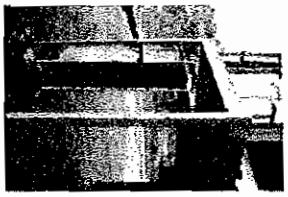

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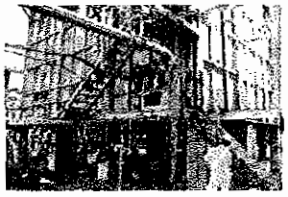

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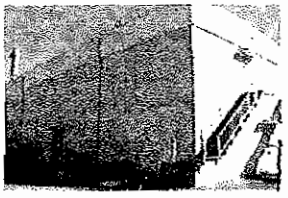

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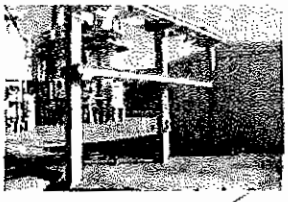

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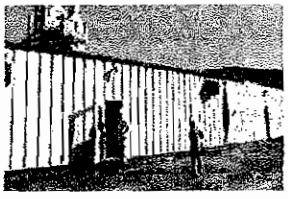

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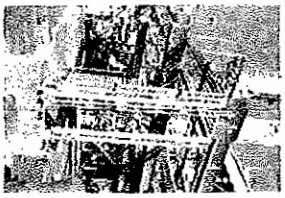

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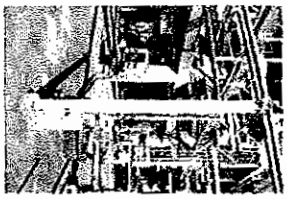

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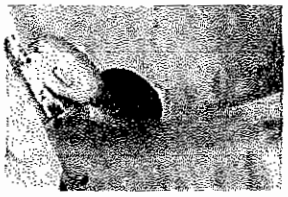

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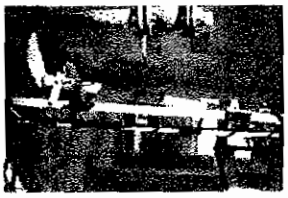

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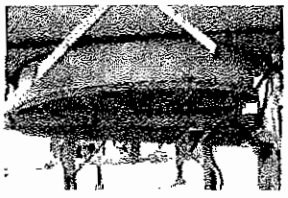

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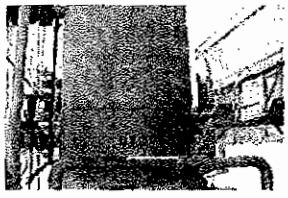

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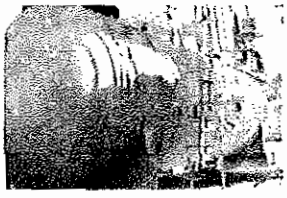

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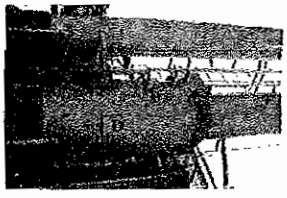

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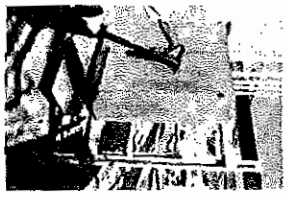

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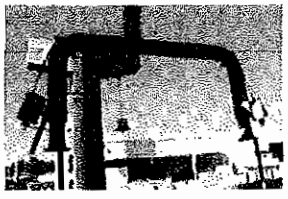

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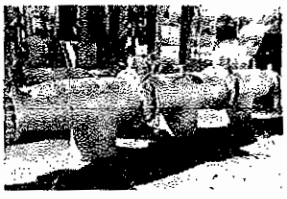

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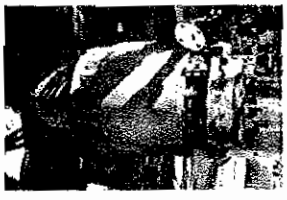

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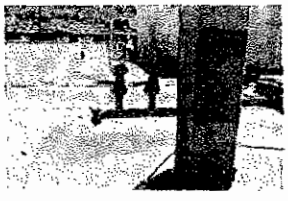

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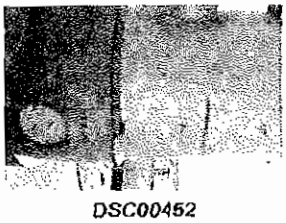

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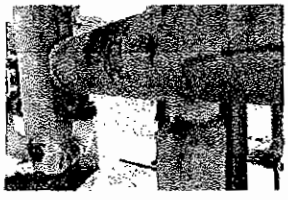

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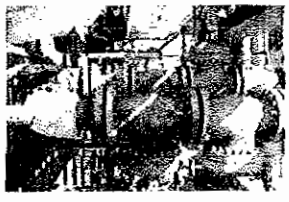

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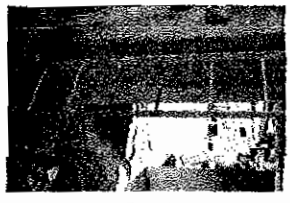

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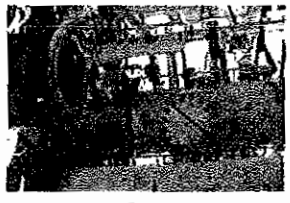

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NATIONALLY AGREED STANDARD OPERATING PROCEDURE (NASOP)

Title: **Decontamination of large equipment**

Version: **1.0**

Prepared by: **Subcommittee on Emergency Animal Diseases**

Approved by: **Animal Health Committee**

Revision history:

Version	Date of approval	Comments
1.0	02/05/11	Approved by AHC

NASOPs support national consistency and provide guidance to response personnel undertaking operational tasks.

1. Purpose

- To describe the actions and practices to be taken by staff involved in the planning or process of decontaminating large equipment, including vehicles.

2. Application/scope

- A control centre is likely to use a vast array of equipment to complete its many tasks, such as destruction, disposal and decontamination. Much of this equipment is likely to be heavy machinery, or similar. It is essential that this equipment be cleaned and disinfected after exposure/potential exposure to the disease causing agent.
- Decontamination of machinery such as excavators, bulldozers, backhoes, bobcats and even lesser equipment such as generators will require a significant commitment of resources and time.
- To minimise the need to decontaminate the heavy machinery, it is important to consider the deployment of the machinery in the first place, for example, if it takes two days to decontaminate a bulldozer, it may be more appropriate to use a single dozer even though the activity requires more time, rather than contaminate two and thus the need to clean two.
- Equipment and machinery must be decontaminated before leaving an infected premises (IP)/ dangerous contact premises (DCP) or on leaving the Restricted Area (RA).
- If a machine has worked on an IP/DCP and its next task is on an IP/DCP, it will only require sufficient decontamination to prevent contamination occurring during transport (it is possible to move between properties of like status without full decontamination with approval from the operations centre).
- A Movement Permit is required when moving between properties.

NOTE: Prior to deployment of machinery, it is important the owner/contractor is aware of the decontamination procedures to which the machinery will be exposed and the time required. Does the contract rate e.g. rate/hour include down time whilst machinery is being disinfected.

3. Resources/equipment

3.1. General

- appropriate personal protective equipment (PPE) issue for personnel entering property
- additional PPE for the prescribed activity—wet weather top and bottom, weather proof gloves, hard hat, respiratory and eye protection as per material safety data sheet (MSDS)

NOTE: eye protection must be worn during the decontamination procedure even if not specified by MSDS to prevent foreign matter in eyes.

- work area with good drainage at wash down site and hard surface located near or at exit for final decontamination / disinfection
- wash down area with liquid waste capturing and holding tanks or similar, with potential need for soil trap
- water supply for pumps—and any equipment to maintain supply
- high pressure cleaner—complete, with long hose and lance
- volume pump, hose, and nozzle for spraying disinfectant
- supply of suitable detergent to assist the cleaning process
- tank to mix disinfectant, and any specific mixing equipment (or proportioner in built with pump)
- disinfectant (as per AUSVETPLAN or directions provided by the operations centre) – at least one day's use on the 'inside'
- optional—scraper or broom for tough jobs
- access to any first aid as recommended by MSDS or material packaging
- possibly need support such as scaffolding or cherry picker for working at heights

NOTE: some items (electrical equipment) may require fumigation as opposed to liquid disinfection

3.2. Documentation

- audit forms
- restricted area movement and surveillance (RAMS) exit form
- MSDSs for all chemicals used
- procedural checklist (Appendix 1)

4. Warnings

- Fatigue
  - It is important personnel involved in such tasks are given the opportunity for reasonable breaks as working in PPE can be debilitating.
  - Tiredness can be exaggerated by dehydration. Staff employed on these duties must be closely monitored.
- Foreign matter in eyes may result from the scrapping/other actions to remove built up soil etc. Eye protection must be worn for such tasks.
- Manual handling
  - Much of the equipment in use and also consumables such as the disinfectant may be heavy. Efforts should be made to minimise the need for heavy items to be moved either alone or without assistance.
- Slips, trips and falls
  - The working environment is wet, typically uneven, and potentially a different structure each time. Every effort should be made to prevent slips, trips and falls by personnel undertaking the disinfection. Checks should be made on non-slip footwear, non-slip work surfaces, and low risk work practices e.g. not climbing on

painted metal surfaces. Where operations are in the dark, supplementary lighting should be provided.

- Smoking
  - Smoking must not be allowed where decontamination is being carried out. Some disinfectants and fumigants are flammable as may be vehicle fuel.
- Vehicles
  - Where possible, if a driver has remained in the vehicle cab and there is minimum contamination, they are to remain in the cab until disinfection has been completed.
  - Ensure that the vehicle is parked securely, in gear with handbrake on. If the vehicle is in danger of rolling or on steep slope, ensure wheels are chocked.
- Visibility
  - All personnel operating in and around the gate, including the disinfection team should be readily visible e.g. reflective vests.
- Working with disinfectants and fumigants
  - A team should include one person who is trained in the use of hazardous substances. This will ensure the team is able to interpret the MSDS for the disinfectants in use and apply the interpretation.
  - No disinfectant or fumigant should be used without the relevant MSDS and all requirements of the MSDS must be followed. Specified contact times must be observed.
  - All relevant PPE must be available and used at all times. If specialised PPE is required e.g. breathing apparatus, then only trained and skilled operators are to use that PPE.
  - Particular attention should be given to the mixing of all chemicals (from concentrated to dilute form).
  - Where possible, chemicals used should not be capable of damaging the equipment being decontaminated. Where necessary chemicals must be washed off after contact period.
- Working at heights
  - There is a possibility some disinfection operations will require the crew to operate off the ground e.g. cabin of truck, boom of a crane.
  - Where personnel work at heights it is essential, all necessary steps are taken to prevent a fall, and provide protection in the event of a fall. This may mean providing a platform (fixed or cherry picker) for spraying/cleaning from, rather than actually climbing on the vehicle/equipment.
- Personnel involved in this task must wear a hard hat in addition to other specified PPE.

5. Description of activities

- Familiarise staff with equipment to be decontaminated and the areas in vehicles and equipment which require attention (Appendix 1).
- Remove excess soil and bio-organic matter—whilst in the contaminated area—prior to wash down.
- Relocate equipment to wash down site.
- Ensure wheels are chocked or similar to prevent vehicle moving.
- Spray external surfaces with disinfectant.
- Remove remaining gross contamination with wash/high pressure and/or detergent, followed by high pressure cleaner (control aerosols for specified diseases).
- Start at top and work down.
- Cabin—vacuum floor and spray/wipe all surfaces with appropriate disinfectant.
- Mange air filters according to disease
- When wash down has been completed, relocate to exit site for final disinfection.
- Apply disinfectant and leave disinfectant for recommended contact time before rinsing with clean water.
- Ensure the equipment is not left in a location where it can become contaminated whilst waiting for transport.

NOTE: There will be a need to move machinery so all parts of wheels/tracks are accessed.

6. References

- AUSVETPLAN Decontamination Manual
  - AUSVETPLAN manuals are available at: http://www.animalhealthaustralia.com.au
- NASOP 01: *Personal decontamination—entry and exit procedures*
- NASOP 09: *Inspection of property before operations*
- NASOP 26: *Decontamination of groups of people—entry and exit procedures*
- NSW SOP (e.g. Decontamination of large equipment; Decontamination—vehicles)
- RAMS Exit Form

7. Appendices

- Appendix A: General guide to decontamination

APPENDIX A

GENERAL GUIDE TO DECONTAMINATION

1. Cabin and interior
- ❑ check carpets/mats
- ❑ tool boxes/bins and upper operator cabins
- ❑ boot area including spare tyre area
- ❑ other recesses in the rear of the vehicle

2. Engine bay
- ❑ radiator core and oil coolers
- ❑ grills
- ❑ top of transmission gearbox
- ❑ battery box and sump guards
- ❑ air pre-cleaners and dust unloaders

5. Underside
- ❑ wheel arches, wheel trims, flares, step treads and bumpers
- ❑ mud flaps
- ❑ rims, tyres and any gashes or cuts in tyres
- ❑ axels and differentials
- ❑ spare tyres stowed under vehicle are to be lowered for inspection

4. Chassis and body
- ❑ check inside of chassis rail ledges and back axle
- ❑ front/rear brake assemblies

5. Buckets, blades, booms
- ❑ attachments (buckets, blades, booms and rippers)
- ❑ cutting teeth, adaptors and wear plates on blades
- ❑ hydraulic arms supports for hollows

6. Plant and vehicle loads
- ❑ all loads are inspected as above
- ❑ all imported material declared and approved (particularly soils, seeds, plant matter)

7. Container and general cargo
- ❑ a visual check with vehicle loaded (especially forklift points)

The safety of inspectors/equipment operators and drivers must be taken into account at all times.

Do's:
1. all safety precautions carried out prior to inspection
2. inspection carried out at wash points where available
3. inspection conducted to allow time for rewashing as required
4. ensure all units and sub-units attached are inspected
5. persons carrying out inspections should be consistent throughout inspections
6. inspectors consider traffic congestion when planning inspection
7. consider water runoff and weed infestation at wash points
8. inspect all bulk and general cargo's where appropriate
9. pin, block or chock all attachments blades and booms
10. minimise use of water (consider water restrictions and volume of waste water to be retained/treated)
11. inspectors to wear high visibility vests
12. where possible carry out inspection in daylight.

Don'ts:
1. Don't conduct inspection with engines running.
2. Don't leave keys in vehicle when inspecting vehicle.
3. Where key cannot be removed inspectors are to ensure vehicles cannot be moved during inspections or washing.
4. Don't allow vehicles to be reversed without guides.
5. Don't carryout inspections on roadways.
6. Don't allow vehicles to avoid wash down and inspection.

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HOMECA
RECYCLING
Environmental, Coating and Demolition Services

STANDARD OPERATING PROCEDURE FOR:

DECONTAMINATION OF EQUIPMENT

Prepared by:

Homeca Recycling Center Co., Inc.

For:

Puerto Rico Olefins

December 2013

1.0 PURPOSE

The purpose of this Standard Operating Procedure (SOP) is to describe the methods to be used when decontaminating field equipment that has had the potential to be exposed to asbestos at Puerto Rico Olefins in Peñuelas PR. It is important to follow these procedures from a quality control (QC) perspective to ensure that no equipment lives the work site with any contamination.

2.0 GENERAL CONSIDERATIONS

Potential hazards associated with the planned tasks should be thoroughly evaluated prior to conducting Olefins field activities. The site-specific Health and Safety Plan (HASP) provides a description of potential hazards and associated safety and control measures.

Sampling personnel must wear powder-free nitrile gloves while performing the procedures described in this SOP. Specifically, nitrile gloves must be worn while preparing sample bottle ware, preparing and decontaminating sampling equipment, collecting and processing samples, and packing samples. At a minimum, nitrile gloves must be changed prior to the collection of each sample or as necessary to prevent the possibility of cross-contamination with the sample, the sample bottle ware, or the sampling equipment.

Consideration should be given to the order in which the samples are collected. In general, samples should be collected from areas suspected to be least impacted by contamination followed by areas suspected to be most impacted by contamination, thereby minimizing the potential for cross-contamination.

Prior to field activities, the field team should consider how investigation-derived waste (such as decontamination fluids) is to be handled.

If containerization of decontamination fluids associated with decontaminating large equipment (such as drilling rigs and backhoes/excavators) is required, it is imperative to ensure that the subcontractor will have appropriate equipment onsite. This equipment

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may include a portable electric generator and a high-pressure steam-cleaner or steam-jenny. In addition, a decontamination pad or portable containment system should be used to collect fluids. Typical decontamination pads are constructed of polysheeting draped over hay bales or a wooden frame and sloped to accommodate the collection of liquids by sump or other suitable means.

3.1 PROCEDURES

The following sections describe the procedures for decontamination of equipment. Any variation in these procedures must be approved by the Project Manager (PM) and Quality Assurance/Quality Control (QA/QC) Lead and must be fully documented. Decontamination activities cannot progress until deviations are approved or resolved.

3.2 Pre-Job Preparation

Prior to initiating sampling activities, the PM will ensure that the following activities have been completed.

a. Verify that an adequate supply of equipment, solvents, and water (both potable and deionized [DI]) necessary for completing decontamination are available for the planned sampling activities at the site. See Table 1 for an example checklist of decontamination equipment and materials.

b. Review project work control documents such as the *Quality Assurance Project Plan* (QAPP), *Health and Safety Plan* (HASP), and appropriate SOPs in an effort to determine the project-specific requirements, procedures, and goals.

3.3 Field Preparation and Set-up

The field set-up for decontamination will vary depending on the type of equipment to be used as described in the following steps.

a. Establish a centralized equipment decontamination area at KIF for the day-to-day decontamination of general sampling equipment. Set up the decontamination area away from and preferably upwind from areas of remediation, construction, and site operation activities.

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b. For decontamination of hand-held sampling equipment, spread plastic sheeting on the ground and place the decontamination tubs and/or buckets and rinse bottles in order of use on top of the plastic. Prepare an ample volume of decontamination solution containing a non-phosphate detergent (such as LiquiNox®detergent solution) and potable water. Record the source of the water in the field logbook.

c. For decontamination of drilling rigs or backhoes/excavators, establish an area for decontamination that will meet the program and site-specific requirements for collection of decontamination fluids. If necessary, set up a decontamination pad at the KIF decontamination area as discussed in Section 2.0. Conduct gross decontamination (such as removing general mud from large equipment) prior to demobilization from the site back to the KIF decontamination area.

3.4 Decontamination

All equipment used for sampling, testing, or measuring, including excavating and drilling equipment, that comes in contact with potentially sampled media will be decontaminated prior to use unless the equipment is prepackaged and sealed by a manufacturer of environmental sampling equipment. Reusable sampling equipment will also be decontaminated between sampling locations. If disposable sampling equipment (clean prepackaged materials) is used, this equipment will not be decontaminated before use and will be disposed of properly after one use. Disposable equipment will not be used at more than one sampling location.

Dedicated sampling equipment, such as individual sampling/purging pumps that are used to sample one well, will be decontaminated prior to the first use, but will not require decontamination between uses at the same well. Dedicated sampling equipment will be secured in clean resealable plastic bags between uses and will be replaced monthly (<32 days) or when visual indications of stains are observed or there are indications of contamination from equipment blanks.

The following presents decontamination procedures for manual sampling equipment and heavy equipment.

3.3.1 Manual Sampling Equipment

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The following general decontamination steps should be applied to all equipment prior to initial use (unless using clean prepackaged environmental sampling equipment) or that have been utilized to collect sample media for analytical purposes. Site-specific project control documents may specify modifications to these procedures and should be followed when applicable. It is important to note that no acids or solvents will be used to decontaminate any electrical or electronic instrumentation unless specified by the manufacturer.

a. Physically remove visible material from the sampling equipment to the extent practical before decontaminating the equipment with decontamination fluids. If this material appears to be impacted based on visual observation, instrument readings, or other credible indication, collect and manage this material in accordance with the *Management of Investigation-Derived Waste* SOP (TVA-KIF-SOP-012).

b. Immerse (to the extent practicable) the equipment in the detergent solution and scrub the equipment thoroughly with a stiff brush until visible residual material is removed and the equipment is visibly clean. Circulate detergent solution through equipment that cannot be disassembled such as submersible pumps (ASTM, 1990).

c. Rinse the equipment thoroughly with potable water.

d. Rinse the equipment with organic desorbing agent (isopropyl alcohol). If samples are not being collected for analysis of organic compounds, omit this step (ASTM, 1990).

e. Rinse the equipment thoroughly with potable water.

f. Rinse the equipment with DI water (use reagent-grade DI water from a known source).

g. To the extent practicable, allow the equipment to air dry in a clean area (equipment does not need to be completely dry before reuse; under certain weather conditions, complete air drying is not possible).

h. Change the initial decontamination solution daily and/or between sites at a

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minimum and more frequently as needed. Collect decontamination solvents in a separate container from water/detergent solutions and properly containerize, store, and dispose of decontamination solutions in accordance with the *Management of Investigation-Derived Waste* SOP (TVA-KIF-SOP-012).

If decontaminated equipment will not be used immediately, the equipment may be wrapped in aluminum foil (if used for organics only) or sealed in a plastic bag for storage. Decontamination activities, including date, time, and reagents used, should be documented in the field logbook and decontaminated sampling equipment should be labeled with this information as appropriate.

3.3.2 Decontamination of Heavy Equipment

The following steps for decontamination can be applied to heavy equipment.

a. Physically remove as much of the visible material as possible from the heavy equipment after use and prior to steam cleaning. If contaminated material is suspected as determined by visual observations, instrument readings, or other means, collect material in an appropriate container. Otherwise, return the material to the area where it originated.

b. Place the heavy equipment on the decontamination pad in the decontamination area. If wash water is to be collected, ensure that the collection mechanism functions properly and that the decontamination pad has no leaks.

c. Steam clean parts of the heavy machinery that come into contact with visible material (such as tires, bulldozer bucket, augers, and back of drill rig).

d. For any portion of the heavy equipment that comes into contact with the sampling media, decontaminate by following steps *b* through *h* of Section 3.3.1.

e. Containerize fluids, if appropriate. Place solids in a drum or other appropriate container.

3.4 Field Logbook Documentation

Field logbooks will be maintained by the Field Team Leader to record daily activities. In

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addition to the minimum requirements discussed in the *Field Documentation* SOP (TVA-KIF-SOP-06), the field logbooks should document those decontamination activities specific to this SOP.

The Field Team Leader and/or designee will review the field logbook entries on a weekly basis at a minimum (daily review is preferred) for completeness and accuracy and will indicate this review by initialing the entries. The Field Team Leader or designee is responsible for completion of the required data collection forms.

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4.1 REFERENCES

- ASTM. *Standard Practice for Decontamination of Field Equipment Used at Nonradioactive Waste Sites*. D 5088-90, 1990.
- United States Environmental Protection Agency (U.S. EPA). Region 4, *Field Equipment Cleaning and Decontamination Operating Procedure*. Document # SESDPROC-205-R1, November 2007.
- Tennessee Valley Authority (TVA). *Field Documentation* SOP (TVA-KIF-SOP- 06). February 2009.
- TVA. *Health and Safety Plan* (HASP), KIF Site Specific, 2009.
- TVA. *Management of Investigation-Derived Waste* SOP (TVA-KIF-SOP-12), 2010.
- TVA. *Quality Assurance Project Plan* (QAPP), 2009.

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Table 1: Decontamination Checklist for Equipment and Materials	
Item Description	**Check☐**
Health & Safety	
Nitrile gloves	
Hard hat	
Steel-toed boots	
Hearing protection	
Field first-aid kit	
Eyewash	
Safety glasses or face shield (for use when steam cleaning)	
Barricades, cones, flashing lights, signs	
Respirator and cartridges (if necessary)	
Saranex™/ Tyvek®suits and booties (if necessary)	
Paperwork	
Health and Safety Plan	
Project work control documents	
Field logbook	
Equipment	
Non-phosphate detergent (such as LiquiNox®)	
Isopropyl alcohol	
Buckets or washtubs	
Spray bottles	
Drums (with labels)	
Plastic sheeting	
Brushes	
Steam cleaner/ generator	
Potable water/ Deionized water	
Aluminum foil	
Plastic bags	
Drying shelves	

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End of Procedure

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SECCIÓN 6

[2012]

Plan de Salud y Seguridad Ocupacional

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POLITICA DE SEGURIDAD

La gerencia de Homeca Recycling considera la salud y seguridad ocupacional, la prevención de accidentes y la protección física de nuestros empleados y lugares de trabajo como uno de los aspectos más importantes para nuestra empresa y sus empleados.

Es nuestra política el proveer y mantener condiciones de trabajo seguras y saludables, establecer operaciones que cumplan con los requisitos de salud y seguridad ocupacional aplicables a nuestra industria y que a su vez sean efectivos y productivos.

La seguridad es responsabilidad de TODOS, no importa el nivel en que nos desempeñamos. La seguridad es parte integral de nuestro trabajo y se extiende a las tareas fuera del trabajo y en nuestros hogares.

Nos comprometemos a desarrollar e implementar las políticas y procedimientos, proveer equipos y adiestramientos necesarios para el cumplimiento de las leyes y reglamentaciones que aplican a nuestra industria.

Esta política está basada en la Ley #16, Ley de Seguridad y Salud en el Trabajo de Puerto Rico del Departamento del Trabajo y Recursos Humanos, y el Código Federal de Regulaciones de la Administración de Seguridad y Salud Ocupacional, "Occupational Safety and Health Administration"(OSHA).

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SECCION 1

SEGURIDAD Y SALUD EN EL TRABAJO

1.1 Política

La política de Seguridad y Salud de Homeca Recycling Center Co, Inc. (HRC) está dirigida a garantizar condiciones de trabajo seguras a cada empleado: a estimular y ayudar a los gerentes, supervisores, y personal administrativo en sus esfuerzos de implantar normas, reglas o procedimientos de seguridad y salud en el empleo.

1.2 Propósito

Este programa tiene el propósito de asignar responsabilidad a cada empleado en el cumplimiento de las leyes de seguridad y salud ocupacional según dispone la Oficina de Seguridad y Salud en el Trabajo, del Departamento del Trabajo y Recursos Humanos de Puerto Rico.

1.3 Responsabilidades

La política autoriza al Gerente a cargo de administrar el Programa de Seguridad y Salud Ocupacional de HRC, a crear, comunicar y poner en vigor la política sobre los procedimientos de seguridad y salud que apliquen a cada área según lo establecido por ley. Además, establecer a línea de mando o diagrama organizacional en cuanto a la toma de decisiones en casos de emergencias referentes a seguridad y salud ocupacional.

1.3.1 Responsabilidad del Gerente a cargo de administrar el Programa de Seguridad y Salud Ocupacional

1.3.1(a) Comunicar la política y todo lo relacionado con el programa de Seguridad y Salud Ocupacional a cada uno de los empleados de HRC.

1.3.1(b) Asignar a una o más personas para implantar el Programa de Seguridad y Seguridad y Salud Ocupacional.

1.3.1(c) Revisar periódicamente a efectividad del programa en proveer seguridad en a realización de los proyectos de HRC.

1.3.1(d) Asegurar que los gerentes, personal de operaciones, y personal administrativo cumplan con las reglas y

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procedimientos de seguridad y salud ocupacional establecidos.

1.3.1(e) Mantener el Registro de Lesiones y Enfermedades Ocupacionales, Forma OSHA 300 (Se conservará por cinco(5) años).

1.3.1(f) Completar el Informe Patronal de Accidentes de Trabajo referidos al Fondo del Seguro del Estado.

1.3.1(g) Redactar y revisar periódicamente el material utilizado para adiestramientos y charlas de seguridad.

1.3.2 Responsabilidades de los Gerentes de HRC

1.3.2(a) Trabajar en estrecha cooperación con la persona a cargo de administrar el Programa de Seguridad y Salud Ocupacional.

1.3.2(b) Estar relacionados con las reglas, política, procedimientos y prácticas de seguridad que apliquen a sus áreas de trabajo.

1.3.2(c) Servir de ejemplo a todo el personal cumpliendo con las reglas de seguridad establecidas en HRC.

1.3.2(d) Estimular el rendimiento dirigido hacia el mejoramiento de seguridad y salud en el trabajo.

1.3.2(e) Entregar y discutir con el gerente de la división de Seguridad los planes de trabajo para cada proyecto.

1.3.3 Responsabilidades de los Supervisores

1.3.3(a) Trabajar en estrecha cooperación con el Personal de Seguridad y Salud Ocupacional asignado a su área.

1.3.3(b) Brindar especial atención a las recomendaciones o querellas de presentadas por su personal.

1.3.3(c) Llevar a cabo reuniones periódicas de seguridad con el personal bajo su supervisión.

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1.3.3(d) Estar relacionados con las reglas, política, procedimientos y prácticas de seguridad que apliquen a sus operaciones.

1.3.3(e) Servir de ejemplo a todo el personal obedeciendo las reglas, política, procedimientos y prácticas de seguridad establecidas.

1.3.3(f) Conocer las normas de seguridad de OSHA, aplicables a sus labores.

1.3.3(g) Discutir con su personal los riesgos envueltos en el trabajo que se va a realizar.

1.3.3(h) Asegurarse que su personal siga los procedimientos y reglas de seguridad establecidos.

1.3.3(i) Proveer el equipo de seguridad y protección personal necesaria para realizar el trabajo de manera segura.

1.3.3(j) Investigar los accidentes que ocurran y establecer medidas preventivas.

1.3.3(k) Motivar a los empleados para que cumplan las reglas de seguridad establecidas.

1.3.3(l) Verificar que sus empleados entienden y sigan las instrucciones contenidas en los MSDS (Material Safety Data Sheets) de aquellas substancias químicas presentes en su área de trabajo y a las cuales puedan estar expuestos.

1.3.3(m) Llevar a cabo las gestiones necesarias para la eliminación de condiciones inseguras que sean presentadas a su atención.

1.3.3(n) Comunicarse inmediatamente con el Personal de Seguridad y Salud Ocupacional de HRC en caso de tener duda con algún procedimiento o en la eventualidad de un incidente o accidente.

1.3.4 Responsabilidad del Personal de Seguridad y Salud Ocupacional

1.3.4(a) Verificar que el personal de operaciones cumpla la reglamentación de Seguridad y salud en cada

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proyecto según los procedimientos establecidos por HRC.

1.3.4(b) Llevar a cabo inspecciones periódicas en cada proyecto y planta física de HRC. Preparar un informe escrito con los resultados de las inspecciones, el cual será referido al Gerente que administra el Programa de Seguridad y Salud Ocupacional.

1.3.4(c) Investigar aquellos accidentes de carácter serio, enfermedades ocupacionales o aquellos incidentes ocurridos en los proyectos y que presenten el potencial de causar daño físico serio o pérdidas considerables.

1.3.4(d) Representar a la compañía durante las inspecciones de cumplimiento por OSHA o personal de seguridad de la compañía en la cual se esté realizando algún proyecto.

1.3.4(e) Asesorar a los Gerentes, supervisores, y personal administrativo en cómo manejar situaciones de seguridad y salud en el trabajo que surjan durante el transcurso de las operaciones.

1.3.4(f) Ofrecer los adiestramientos de seguridad y salud (para los cuales este autorizado) a todo personal de HRC que los requiera para la realización de un proyecto.

1.3.4(g) Asistir en la redacción y entrega del material escrito que utilizarán los supervisores de HRC para ofrecer las charlas de seguridad en cada proyecto.

1.3.4(h) Asistir a los gerentes de cada división en la compra de material y equipo de seguridad.

1.3.4(i) Llevar y mantener los siguientes expedientes:

1.3.4(i)(1) Inspecciones periódicas de seguridad llevadas a cabo como parte del Programa de Seguridad.

1.3.4(i)(2) Inspecciones periódicas de extintores y equipos como escaleras, arnés, y cualquier otro que lo requiera.

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1.3.4(i)(3) Inventario del equipo de seguridad existente.

1.3.4(i)(4) Adiestramientos de seguridad ofrecidos al personal.

- ✓ Material escrito utilizado
- ✓ Listado de asistencia de empleados
- ✓ Exámenes de aprovechamiento ofrecido
- ✓ Copia del certificado
- ✓ Listado de empleados por división con la información de todos los adiestramientos que ha asistido (con fecha de asistencia y fecha de expiración).

1.3.4(j) Acciones correctivas impuestas a empleados que han violado las reglas seguridad establecidas por la compañía.

1.3.4(k) En casos donde la víctima del accidente deba ser referido a un consultorio médico u hospital, hará los arreglos pertinentes para el referido del paciente, y de ser necesario, acompañará al accidentado.

1.3.4(l) Mantendrá los botiquines de primera ayuda debidamente surtidos.

1.3.4(m) Mantendrá un listado de teléfonos de emergencia.

1.4 Acciones Disciplinarias

1.4.1 Cuando un empleado quebrante una regla o procedimiento de seguridad Establecido por HRC se tomará la siguiente acción:

1.4.1(a)	Primera Ofensa-	Reprimenda verbal
1.4.1(b)	Segunda Ofensa-	Reprimenda escrita
1.4.1(c)	Tercera Ofensa-	Despido

1.4.2 Las siguientes acciones conllevan una advertencia (warning):

1.4.2(a)	No utilizar el equipo de protección personal
1.4.2(b)	Violar las reglas de seguridad.
1.4.2(c)	Perdida de materiales, equipo, y herramientas
1.4.2(d)	Daños a la propiedad
1.4.2(e)	Robo

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1.4.2(f) Tardanzas
1.4.2(g) Ausencias injustificadas, entre otras.

1.4.3 Las siguientes violaciones conllevan suspensión inmediata de empleo:

1.4.3(a) Poseer, consumir o usar bebidas alcohólicas o drogas en los predios de su área de trabajo.

1.4.3(b) Pelear o agredir a cualquier persona en los predios de su área de trabajo.

1.4.3(c) El no utilizar el equipo de protección personal en áreas críticas (alto riesgo a la Seguridad y Salud del empleado)

1.4.3(d) Actos de insubordinación.

SECCION 2
REGLAS DE SEGURIDAD

2.1 Propósito

Establecer las reglas de seguridad y salud ocupacional de HRC acorde con las normas requeridas por la Oficina de Seguridad y Salud del Departamento del Trabajo de Puerto Rico, para mantener un ambiente de trabajo seguir.

2.2 Responsabilidades

2.2.1 Personal de Seguridad y Salud Ocupacional

Será responsable de la implementación de las reglas de seguridad del personal gerencial, supervisores, y personal administrativo.

2.2.2 Supervisores

Será responsable que las normas de seguridad sean llevadas a cabo por el personal de operaciones a su cargo.

2.2.3 Personal de Operaciones

Será responsable de obedecer y ejecutar las reglas de seguridad impartidas por su supervisor.

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2.3 Procedimientos

Para la efectividad del Programa de Seguridad y Salud en las distintas áreas de trabajo de HRC se seguirán las siguientes reglas:

2.3.1 Las instrucciones de seguridad verbal o escrita deberán de observarse en todo momento. Si no está seguro deberá preguntar a su supervisor antes de proceder.

2.3.2 Todas las tareas se realizarán en cumplimiento con las regulaciones estipuladas por OSHA.

2.3.3 Se usará en todo momento el equipo de protección personal asignado.

2.3.4 Todo empleado será responsable del mantenimiento del equipo de protección personal asignado para su seguridad.

2.3.5 Será compulsorio asistir a las charlas de seguridad semanales, adiestramientos, exámenes médicos, y pruebas de dopaje.

2.3.6 Se reportará al supervisor inmediato cualquier condición insegura detectada.

2.3.7 Se reportará inmediatamente cualquier lesión que ocurra.

2.3.8 No se fumará o comerá en el área de trabajo.

2.3.9 No se utilizarán prendas en el área de trabajo.

2.3.10 Los avisos fijos de seguridad no serán removidos sin la autorización de la gerencia.

2.3.11 Todo empleado usará aquellos equipos para los cuales ha sido adiestrado.

2.3.12 Se mantendrá todo el equipo en buenas condiciones. Nunca se usarán herramientas o equipo defectuoso. Se reportará cualquier herramienta a equipo defectuoso a su supervisor.

2.3.13 Para realizar ajustes mayores, reparar a dar mantenimiento a los equipos, se detendrá la maquinaria y solo personal autorizado la volverá a poner en funcionamiento.

2.3.14 Solamente personal cualificado estará autorizado para reparar equipo eléctrico.

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2.3.15 Las barreras o dispositivos de seguridad que sean removidas para preparar o ajustar la maquinaria deberán reponerse antes de operar el equipo.

2.3.16 Todas las herramientas eléctricas portátiles se examinarán antes de usarse y se verificará que tienen conexión a tierra.

2.3.17 Se usará el método correcto para levantas cargas del piso (aproxímese a la carga, doble las rodillas, mantenga la espalda lo más recta posible, agarre la carga, levántese con la carga).

2.3.18 El equipo para combatir incendio será usado únicamente para ese propósito, se evitará alguna obstrucción en un radio de diez (10) pies de éstos.

2.3.19 Se observarán las reglas de tránsito dentro de los predios de la compañía que se les este ofreciendo servicio.

2.3.20 Las salidas de emergencia estarán libres de obstrucción.

2.3.21 El área de trabajo se mantendrá limpia y en orden.

2.3.22 Al subir o bajar escaleras se utilizará su lado derecho haciendo usa del pasamano.

2.3.23 No se llevarán a cabo juegos de mano.

2.3.24 Se lavarán a cabo juegos de mano.

2.3.25 El poseer, usar, a estar bajo la influencia de bebidas embriagantes a drogas ilegales está totalmente prohibido.

2.3.26 Se mantendrá alerta todo el tiempo y evitará accidentes, usted será responsable de sus actos, los que puedan afectar su seguridad y la de sus compañeros.

SECCION 3

ADIESTRAMIENTOS DE SEGURIDAD

3.1 Propósito

Impartir el conocimiento de las normas de seguridad y salud ocupacional aplicables a cada área de trabajo.

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3.2 Responsabilidades

3.2.1 Responsabilidad de Seguridad y Salud Ocupacional

3.2.1(a) El Personal de Seguridad discutirá con los empleados nuevos la siguiente:

3.2.1(a)(1) Política de HRC en cuanto a seguridad y salud ocupacional.

3.2.1(a)(2) Reglas de seguridad de HRC.

3.2.1(a)(3) Sistemas de amonestación de la compañía por violaciones a las reglas de seguridad establecidas.

3.2.2 Supervisor

3.2.2(a) Discutirá con sus empleados los procedimientos de seguridad y salud establecidos.

3.2.2(b) Ofrecerá charlas de seguridad semanales con diferentes temas relacionados a las Normas de Seguridad y Salud Ocupacional aplicables a su área de trabajo.
Estas charlas tendrán una duración que quince minutos.

3.2.3 Empleados de Operaciones

Será responsabilidad de los empleados de HRC asistir a todas las charlas y adiestramientos de seguridad requeridos antes de presentarse a su área de trabajo. El personal que no asista a las charlas de seguridad no podrá trabajar.

3.3 Normas aplicables

Los temas a ser cubiertos en los adiestramientos estarán principalmente relacionados con el área de trabajo, pero no están limitados solamente a estos. Dentro del programa de adiestramiento se cubrirán las siguientes normas:

3.3.1 Provisiones de Seguridad y Salud Generales

3.3.2 Comunicaciones de Riesgos

3.3.3 Normas de OSHA que más frecuente se violan

3.3.4 Reglas de Seguridad de HRC

3.3.5 Reporte de investigación de accidentes/incidentes

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3.3.6 Acciones Disciplinaria de HRC

3.3.7 Equipo de Protección Personal

3.3.8 Programa Protección Respiratoria

3.3.9 Protección Auditiva

3.3.10 Programa Prevención de Caídas

3.3.11 Programa de Entrada a Espacios Confinados

3.3.12 Programa para Andamios

3.3.13 Gases Comprimidos

3.3.14 Escaleras fijas a portátiles

3.3.15 Trincheras y Excavación

3.3.16 Electricidad

3.3.17 Pintura y Solventes

3.3.18 Herramientas de mano y portátiles

3.3.19 Operadores de Montacargas

3.3.20 Plataformas Aéreas

3.3.21 Protección de alturas

3.3.22 Protección contra Incendios
3.3.23 Soldadura

3.3.24 Planes de Emergencia

SECCION 4
INSPECCIONES DE SEGURIDAD

4.1 Propósito

Establecer las normas y procedimientos necesarios para efectuar las inspecciones según las mejores prácticas de seguridad establecidas en HRC

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acorde con los requerimientos de la Oficina de Seguridad y Salud del Departamento del Trabajo de Puerto Rico.

4.2 Responsabilidades

4.2.1 Personal de Seguridad Ocupacional

Será responsabilidad del Personal de Seguridad y Salud llevar a cabo inspecciones periódicas en los distintos proyectos de HRC asegurado que las prácticas de trabajo se efectúen de forma segura.

4.2.2 Supervisores

Será responsabilidad del Supervisor llevar a cabo inspecciones continuas en las áreas de trabajo a su cargo.

4.3 Procedimiento

Se realizarán inspecciones de seguridad para registrar el cumplimiento con la reglamentación vigente de Seguridad y Salud Ocupacional. Dos tipos de inspecciones de seguridad serán realizadas a saber:

4.3.1 Inspecciones Continuas

El Supervisor verificará continuamente que su personal tome las debidas precauciones de seguridad y use el equipo de protección personal requerido. Además, estará pendiente que se cumpla con todos los procedimientos y normas establecidas en HRC.

4.3.2 Inspecciones Periódicas

El Personal de Seguridad y Salud planificará y coordinará las inspecciones periódicas en los proyectos según las necesidades de cada proyecto e inspeccionará la planta física de HRC trimestralmente.

4.4 Áreas de Inspecciones

Se inspeccionarán las siguientes áreas:

4.4.1 Inspección de Equipo de Protección Personal

Las inspecciones del equipo de protección personal se llevarán a cabo una vez mes, se inspeccionará que:

4.4.1(a) Las gafas de seguridad estén en buenas condiciones.

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4.4.1(b) Los capacetes de seguridad estén en buenas condiciones.

4.4.1(c) Los zapatos de seguridad estén en buenas condiciones.

4.4.1(d) En donde exista corrosión se proveerá equipo para protección facial.

4.4.1(e) Los equipos de protección respiratoria deberán:

- Estar en buenas condiciones (válvulas, cartuchos, amarras, etc.) y que los cartuchos sean apropiados para proteger al personal del riesgo establecido.
- Las unidades usadas hayan sido limpiadas y colocadas dentro de una bolsa plástica y con amarras.

4.4.1(f) Se use protección auditiva en áreas con niveles de ruido que exceden los 85 dB.

4.4.1(g) Los guantes sean los apropiados al riesgo envuelto.

4.4.1(h) Exista ropa de protección desechable.

4.4.1(i) Las partes de metal del arnés estén libre de corrosión y sus correas libres de defectos.

4.4.2 Inspección de Equipo

Contra Incendio

El equipo de protección contra incendios se inspeccionarán una vez al mes, en cada extintos se inspeccionará que;

4.4.2(a) Se mantenga cargado

4.4.2(b) Este en el sitio designado, bien identificado y con fácil acceso.

4.4.2(c) Se provea una protección equivalente cuando el extintor original esté recargándose o dándole mantenimiento.

4.4.2(d) Sea del tipo y clasificación correcta para los riesgos del área.

4.4.2(e) El sello este intacto.

4.4.2(f) No presente signos de corrosión o cualquier otro impedimento o daño físico.

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4.4.2(g) Las mangueras estén en buenas condiciones.

4.4.3 Inspección de Medios de Salidas

Las inspecciones de medios de salida se llevarán a una vez al mes, se inspeccionará que:

4.4.3(a) Las salidas estén libres de obstrucciones y claramente visibles.

4.4.3(b) Las facilidades de salida estén iluminadas adecuadamente.

4.4.3(c) Las salidas de emergencias estén bien rotuladas.

4.4.4 Inspección de Carpetas de MSDS

Las inspecciones de carpetas de MSDS se llevarán a cabo una vez al mes, se inspeccionará que:

4.4.4(a) Los MSDS de todas las sustancias químicas peligrosas que estén usando, estén en una carpeta accesible al área de trabajo.

4.4.4(b) Los MSDS existentes hayan sido provisto por la compañía manufacturera.

4.4.4(c) Que todas las hojas de MSDS tengan escrito un número telefónico disponible 24 horas a utilizarse en caso de emergencia.

4.4.5 Inspección de Equipo Eléctrico

Se inspeccionará mensualmente que:

4.4.5(a) Su aislamiento esté en buenas condiciones

4.4.5(b) El cable eléctrico esté integro (sin empates)

4.4.5(c) El cable de tierra este en buenas condiciones

4.4.5(d) Los aditamentos de seguridad estén instalados según el diseño.

4.4.5(e) Los equipos estén localizados en áreas que no puedan ser golpeados par un vehículo.

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4.4.5(f) Los equipos eléctricos en las áreas que no puedan ser golpeados par un vehículo.

4.4.5(g) La conexión se a los terminales correctos

4.4.6 Inspección de Andamios

Los andamios se inspeccionarán coma mínima una vez al mes para una persona competente, se inspeccionará que:

4.4.6(a) Los pasamos, barandas intermedias y tablas de capelladas (rodapié) estén en buenas condiciones.

4.4.6(b) Los medios de acceso tales como escaleras portátiles fijas, rampas, pasillos, etc. Estén en buenas condiciones y aseguradas.

4.4.6(c) El sistema de freno de los andamios móviles esté en buenas condiciones.

4.4.6(d) La base de los andamios sea sólida.

4.4.6(e) El cartel de reglas de seguridad esté en un área visible.

4.4.6(f) Cuando la altura de la plataforma de trabajo exceda cuatro(4) veces las dimensiones de la base se deberá:

- Establecer y/o asegurar la plataforma
- Afianzar los tablones de la plataforma de trabajo al andamio.

4.4.6(g) Los andamios deberán estar bien nivelados.

4.4.6(h) En aquellos andamios equipados con ruedas, su altura será no más de cuatro (4) veces el ancho de su lado más angosta.

4.4.6(i) Los pisos y techos deberán resistir cuatro (4) veces la carga aplicada a que se espera intentar.

4.4.6(j) La suspensión del andamio deberá soportar seis (6) veces la fuerza que se espera intentar.

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4.4.7 Inspección de Mantenimiento "Housekeeping".

Las inspecciones del sistema de mantenimiento se llevarán a cabo semanalmente, verificando que no existan residuos de materiales cerca de áreas de trabajo, alrededor de edificios a estructuras, y que los contenedores sean las adecuadas para cada desperdicio.

4.4.8 Inspección de Materiales

La inspección de materiales se llevará a cabo una vez al mes, se inspeccionará que:

4.4.8(a) No existan materiales almacenados a menos de de dieciocho (18) pulgadas de las cabecillas de los rociadores automáticas y de lámparas de iluminación.

4.4.8(b) Las áreas de almacenamiento estén limpias y ordenadas.

4.4.8(c) Los pasillos estén limpias y ordenadas.

4.4.8(d) Las plataformas de descarga, anaqueles, tablilleros, etc. estén en buenas condiciones.

4.4.8(e) Exista una segregación de aquellos materiales que son incompatibles.

4.4.8(f) Los líquidos inflamables a combustibles estén propiamente identificados y almacenados.

4.4.8(g) Todos los materiales estén propiamente identificados.

4.4.8 (h) Los cilindros de gases estén propiamente asegurados.

4.4.9 Inspección de Auto Elevadores y Montacargas

Las inspecciones de elevadores y montacargas se llevarán a cabo mensualmente, se inspeccionará que:

4.4.9(a) La certificación de los operadores esté vigente.

4.4.9(b) Las auto elevadores son los apropiados para el área.

4.4.9(c) Las bocinas estén en buen estado y alcance del operador.

4.4.9(d) Los cargadores están protegidos contra un posible choque accidental.

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4.4.9(e) Existe equipo de protección en el área de carga.

4.4.9(f) No exista corrosión en los contadores de la batería.

4.4.9(g) Haya agua destilada disponible para las baterías.

4.4.9(h) Haya lavado de ojos disponibles en las áreas de recargar baterías.

4.4.9(i) Haya buena ventilación en las áreas de cargar baterías.

4.4.9(j) Este presente un extintor en el área de carga de baterías.

4.4.9(k) Exista un aviso de no fumar a menos de 30 pies de distancia del área de carga de las baterías.

4.4.9(l) El montacargas deberá tener bocina para reversa.

4.4.9(m) En ningún momento deberá haber pasajeros en los montacargas.

4.4.9(n) El sistema de frenos de los montacargas deberá estar en buenas condiciones.

4.4.9(o) Las gomas deberán estar en buenas condiciones.

4.4.9(p) El control de dirección deberá estar en buenas condiciones.

4.4.9(q) Se lleve un registro de las hojas de mantenimiento preventiva de estos.

Nota: En adición a las inspecciones realizadas por el Personal de Seguridad y Salud Ocupacional, los montacargas serán inspeccionados diariamente por la persona que los utilice.

4.4.10 Inspección de Herramientas de Mano Motorizadas

Las inspecciones de herramientas de mano motorizadas se llevarán a cabo mensualmente, se inspeccionará que:

4.4.10(a) Las herramientas eléctricas tengan conexión a tierra o sean de doble aislamiento.

4.4.10(b) Las herramientas de impacto estén libres de cabeza de hongo.

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4.4.10(c) Las herramientas de aire estén provistas de un retenedor de mangos.

4.4.10(d) Las herramientas que necesitan guarda estén provistas de las mismas.

4.4.11 Inspección de Resguardo de Máquinas

Las inspecciones de resguardo de maquinas se llevarán a cabo mensualmente, se inspeccionará que:

4.4.11(a) La Sierra de Banda tenga la cuchilla resguardada en todo momento.

4.4.11(b) La Piedra de Amolar fijada al banco o piso de trabajo esté provista de guarda. Esta guarda deberá estar 1/8 pulgada de separación de la piedra, equipada con un cristal de seguridad y con capacidad de iluminación de ser necesario.

4.4.11(c) El Interruptor estén al alcance del operador sin abandonar el sitio de trabajo.

4.4.11(d) Las maquinas con partes movibles que estén localizadas a siete pies a menos del piso tengan las guardas requeridas.

4.4.12Inspección de Superficie de Tránsito y de Trabajo

Las inspecciones de superficies de tránsito y de trabajo se llevarán a cabo una vez al mes, se inspeccionará que:

4.4.12(a) Los pasillos, almacenes y talleres estén limpios, secos y ordenados.

4.4.12(b) Los lados de pisos a plataforma con más de cuatro pies de caída tengan una baranda estándar de 36" o equivalente.

4.4.12(c) Las escaleras portátiles en uso estén amarradas para evitar su desplazamiento. Verificar que los "zapatos" (bases de las escaleras) estén firmes y en buenas condiciones.

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4.4.13 Las inspecciones de servicios médicos se llevarán a cabo una vez al mes, de inspeccionará que:

4.4.13(a) Haya personas cualificadas y certificadas en Primeros Auxilios.

4.4.13(b) Exista al menos un botiquín, para ser completada con la información de cada usuario.

4.4.13(c) Haya una hoja de registro en cada botiquín, para ser completada con la información de cada usuario.

4.4.13(d) Haya facilidades para el lavado rápido de los ojos.

4.4.13(e) Haya un listado con las números de teléfono de emergencia necesarios de surgir un accidente.

SECCION 5
REPORTES DE ACCIDENTES/INCIDENTES

5.1 Propósito

Establecer las normas a seguir durante el reporte e investigación de accidentes o incidentes que ocurran en el área de trabajo.

5.2 Responsabilidades

5.2.1 Personal de Seguridad y Salud Ocupacional

Será responsable de diseñar las formas necesarias para la recopilación de información en caso de accidentes o incidentes, llenar toda la documentación legal concerniente, y la implantación total de esta norma en todos los proyectos de HRC.

5.2.2 Supervisor

Será responsable de reportar e investigar todo accidente o incidente en su área de trabajo.

5.2.3 Empleados de Operaciones

Serán responsables de ofrecer toda la información necesaria para el reporte e investigación de accidentes a incidentes ocurridos en su área de trabajo.

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5.3 Procedimiento

5.3.1 Inicial

En el momento de que ocurra un incidente la persona más accesible al área es el supervisor, por lo tanto, todo accidente o incidente ocurrido a un empleado en el área de trabajo será notificado inmediatamente a este. La cantidad de accidentes será incluida como parámetro en la evaluación del supervisor. El no reportar un accidente/incidente ocurrido llevará una acción disciplinaria. Por lo tanto, e; supervisor deberá:

5.3.1(a) Comunicarse inmediatamente con el Personal de Seguridad y Salud de HRC asignado a su proyecto.

5.3.1(b) Realizar una investigación detallada para determinar las causas y tomar las medidas correctivas pertinentes para prevenir su recurrencia.

5.3.1(c) Será responsable de velar que se le administren los Primeros Auxilios a todo empleado accidentado.

5.3.1(d) Llenar la Forma de Informe de Accidente/Incidente

5.3.1(e) Entregar un reporte escrito dentro de un término no mayor de doce (12) horas de ocurrido el Accidente/Incidente al Personal de Seguridad y Salud Ocupacional de HRC asignado a su área.

5.3.1(f) Notificar a los empleados de lo ocurrido siempre y cuando el accidente esté dentro de su área de trabajo.

5.3.1(g) En casos donde la victima del accidente deba ser referido a un consultorio médico u hospital, y si el Personal de Seguridad y Salud no estuviese accesible, el Supervisor será responsable de hacer los arreglos pertinentes para el referido del paciente, y de ser necesaria acompañará al accidentado.

5.3.2 Seguimiento

El Personal de Seguridad y Salud Ocupacional tendrá la responsabilidad de:

5.3.2(a) Realizar una investigación del accidente/incidente y completar la forma designada para estos propósitos.

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5.3.2(b) Establecer medidas correctivas para que no se repita el accidente/incidente.

5.3.2(c) Llenar la forma de referido del Fondo del Seguro del Estado en caso que el empleado no pueda llegar a las oficinas centrales de HRC.

5.3.2(d) Mantendrá al día los expedientes: de personas accidentadas, por si estos fuesen requeridos por el FCSE, OSHA o PROSHO.

SECCION 6
PROTECCION CONTRA INCENDIOS

Propósito

Establecer un Plan de Emergencia por escrito en caso de que ocurriese una emergencia de fuego en HRC y compañías que se les este ofreciendo servicio. Proteger hasta donde sea pasible el personal, equipo, materiales, y documentos importantes para la continuación de las operaciones. Cumplir con las Normas Federales, contenidas en el Código de Reglamenta Federal (29 CFR 1910-38) y con el Artículo 600, Sección 600.5 y 600.6 del nuevo Código para la Prevención de Incendios del Cuerpo de Bomberos de Puerto Rico.

6.2 Responsabilidades

6.2.1 Personal de Seguridad y Salud Ocupacional

Será responsable de implementar esta norma.

6.2.2 Supervisor

Será responsable de ejecutar el procedimiento descrito en esta norma.

6.2.3 **Empleados de Operaciones**

Serán responsables de ofrecer toda la información necesaria de ocurrir algún evento de fuego.

6.3 Definiciones Fuego

El fuego es una reacción química que involucra la oxidación a combustión rápida de un elemento. Se necesitan cuatro elementos para que ocurra: combustible, oxigeno, calor, y reacción química.

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Combustible

Cualquier material combustible ya sea sólido, líquido o gas. Los sólidos y líquidos se convierten en vapores o gases antes de entrar en combustión.

Oxigeno

El aire que respiramos está compuesto por 21 por ciento (21%) de oxígeno. El fuego requiere una atmósfera de por lo menos dieciséis por ciento (16%).

Calor

El calor es la energía requerida para llevar la temperatura del combustible hasta el punto en que se despiden suficientes vapores que permiten que ocurra la ignición.

Nota: Hay fuentes de ignición como choque que no conllevan calor.

Reacción Química

Una reacción en cadena puede ocurrir cuando los otros tres elementos están presentes en las condiciones y proporciones apropiadas. El fuego ocurre cuando se lleva a cabo esta rápida oxidación o incendio.

Fuego Clase A

Involucra a los combustibles ordinarios o materiales fibrosos, tales como madera, papel, tela, gomas y ciertos plásticos.

Fuego Clase B

Involucra a los líquidos inflamables a combustibles como la gasolina, queroseno, pintura, los aditivos y el propano.

Fuego Clase C

Involucra a los equipos eléctricos con energía, tales como los electrodomésticos, los interruptores, las cajas de fusibles y las herramientas eléctricas.

Fuego Clase D

Involucra a ciertos metales combustibles tales como el magnesio, el titanio, el potasio y el sodio. Estos metales arden a altas temperaturas y generan suficiente oxígeno como para mantener la combustión. Pueden reaccionar

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violentamente con el agua u otros químicos y deben ser manejados con cautela.

6.4 Procedimiento

El fuego es la tercera cauda de muertes accidentales en el trabajo. Miles de fuegos en el trabajo ocurren cada día. Para poder disminuir los daños a la propiedad y lesiones al personal es prioritario establecer medidas a seguir como respuesta de emergencia ante un incendio. El procedimiento estará basado en:

6.4.1(a) **Clase A (Combustibles Ordinarios)**

6.4.1(a)(1) Mantenga las áreas de trabajo y de almacenaje libres de desperdicios.

6.4.1(a)(2) Coloque los trapos grasosos en contenedores cubiertos.

6.4.1(a)(3) Mantenga las fuentes de ignición alejadas.

6.4.1(b) **Clase B (Líquidos o Gases Inflamables)**

6.4.1(b)(1) No le suministre combustible a equipos que se encuentren en un espacio cerrado, especialmente si hay una llama abierta de un horno a calentador de agua.

6.4.1(b)(2) No le suministre combustible a equipos que todavía están calientes.

6.4.1(b)(3) Mantenga los líquidos inflamables almacenados en envases herméticos y a prueba de goteos. Vierta únicamente la cantidad que necesite de los tanques.

6.4.1(b)(4) Almacene los líquidos inflamables únicamente en las áreas bien ventiladas.

6.4.1(b)(5) Utilice líquidos inflamables lejos de las fuentes de chispas.

6.4.1(c) **Clase C (Equipo Eléctrico)**

6.4.1(c)(1) Identifique los cables viejos, los aislamientos desgastados y las piezas eléctricas rotas. Reporte toda condición peligrosa a su supervisor.

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6.4.1(c)(2) Evite el recalentamiento de los motores manteniéndolos limpios y en buen estado. Una chispa proveniente de un motor en mal estado puede encender el aceite y el polvo que se encuentre en el motor.

6.4.1(c)(3) Inspeccione cualquier herramienta o equipo eléctrico que tenga un olor extraño. Ciertos olores inusuales pueden ser la primera señal de que hay un fuego.

6.4.1(c)(4) No sobrecargue los interruptores de pared. Dos enchufes no deberán tener más de dos aparatos conectados.

6.4.1(d)(5) Las luces auxiliares siempre deberán tener algún tipo de protección. El calor producido para luces descubiertas puede encender combustibles ordinarios fácilmente.

6.4.1(d)(6) Nunca instalaré un fusible con un amperaje mayor al que ha sido especificado para el circuito en cuestión.

6.4.2 **Cuando no se debe combatir un fuego**

6.4.2(a) Si usted no ha sido adiestrado y certificado en el uso de extintores.

6.4.2(b) Si el fuego se esté esparciendo más allá del lugar donde comenzó.

6.4.2(c) Si no puede combatirlo de espaldas a una salida de emergencia.

6.4.2(d) Si no tiene el equipo apropiado para combatir fuegos.

6.4.3 **Como apagar los incendios menores**

6.4.3(a) **Incendio Clase A**

6.4.3(a)(1) Apague todo el fuego de combustibles comunes

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carbono se prefieren en estos casos, pues dejan una menor cantidad de residuo.

6.4.4 **Como identificar el extintor apropiado**

Todas las categorías están indicadas en la placa de identificación del extintor. Algunos extintores están marcados con categorías múltiples como AB, BC, ABC. Esto significa que estos extintores puedan apagar más de una clase de fuego.

6.4.4(a) **Extintor Clase A**

Son efectivos sobre combustibles comunes. Estos extintores usan agua a presión, espuma a agentes químicos de uso múltiple.

6.4.4(b) **Extintor Clase B**

Son efectivos sobre líquidos inflamables o gases. Estos pueden ser de espuma, dióxido de carbono, químicos secos regulares, químicos secos de uso múltiple.

6.4.4(c) **Extintores Clase C**

Este tipo de extintor es utilizado exclusivamente para incendios causados por electricidad. Estos pueden contener dióxido de carbono, químicos secos regulares, químicos secos de uso múltiple. Tienen únicamente una letra que indica que el agente extintor no conduce la corriente eléctrica.

6.4.4(d) **Extintores Clase D**

Estos extintores deberán ser utilizados solo sobre metales combustibles. Están diseñados con agentes específicos para el material involucrado. Incluyen una sola letra que indica su efectividad con ciertas cantidades de metales específicos.

6.4.5 Como utilizar el extintor portátil

6.4.5(a) Hale el pasador.

6.4.5(b) Apunte la boquilla del extintor hacia la base de las llamas.

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escalera, proceda hacia el primer piso, y nunca vaya hacia un piso, gatee si es necesario.

6.4.7(c) Manténganse cerca al piso para evitar el humo y los gases tóxicos. El mejor aire se encuentra cerca del piso, gatee si es necesario.

6.4.7(d) No utilice ascensores bajo ninguna circunstancia.

6.4.7(e) Si es posible, cubra su boca y nariz con un trapo para ayudar su respiración.

6.4.7(f) El último en salir de la habitación no debe cerrar la puerta, solo al cerrar las puertas dificulta los esfuerzos de rescate y búsqueda del Departamento de Bomberos.

6.4.7(g) Una vez fuera del edificio, repórtese al área pre-establecida para facilitar el conteo del personal.

6.5 Medidas Preventivas

Se tomarán las siguientes medidas para proteger al personal, equipo y propiedad:

6.5.1 Proveer extintores de incendio de acuerdo a los riesgos en las áreas de trabajo.

6.5.2 Adiestrar a los empleados en el uso de los extintores, a tono con los requisitos de la reglamentación vigente de la OSHA y del Cuerpo de Bomberos.

6.5.3 Establecer un Plan de Acción para Caso s de Emergencia de Fuego, conforme a los requisitos de la reglamentación vigente, cubriendo los siguientes elementos:

6.5.3(a) Procedimiento para reportar y evadir un incendio.

6.5.3(b) Asignación de rutas de escape de emergencia y área de reagrupación.

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6.4.7 Como desalojar un edificio en llamas

6.4.7(a) Proceda hacia la salida tal como está indicado en el Plan de Acción de Emergencia.

6.4.7(b) Si trabaja en un edificio de varios pisos, las escalera serán su ruta primaria de escape. Una vez que esté en la

6.5.3(c) Verificación de empleados después de efectuado el desalojo de emergencia.

6.5.3(d) Asignación de custodios de desalojo, etc.

6.5.4 Se mantendrán los pasillos y ruta de emergencia en buenas condiciones de seguridad.

6.5.5 El equipo de extinción de incendios estará listo y accesible en todo momento.

6.5.6 El equipo de extinción de incendios será listo y accesible en todo momento.

6.5.7 Todo extintor deberá ser del tipo aprobado por U.L. (Underwriters Laboratories) de la compañía "Factory Mutual Engineering Corporation".

6.5.8 Rótulos de no fumar serán colocados en lugares notablemente visibles donde existen riesgos potenciales de incendio y su cumplimiento será requerido.

6.5.9 Se llevarán a cabo simulacros de incendios (por lo menos una vez al año).

SECCION 7
COMUNICACIÓN DE RIESGOS

7.1 Propósito

Establecer las normas para asegurar de que los empleados estén informados de los peligros relacionados con las substancias químicas utilizadas en su área de trabajo.

7.2 Responsabilidades

7.2.1 Personal de Seguridad y Salud Ocupacional

Será responsabilidad del Personal de Seguridad y Salud Ocupacional ofrecer el adiestramiento requerido a todos los empleados de HRC.

7.2.2 Supervisores

Será responsabilidad de los supervisores de ejecutar este procedimiento.

7.2.3 Empleados de Operaciones

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Será responsabilidad de los empleados el seguir las reglas de este procedimiento.

7.3. Definiciones

Liquido Inflamable

Cualquier líquido que tiene "flash point" bajo 100°F

Corrosivos

Cualquier líquido o sólido el cual puede destruir la piel humana y causar corrosión severa al acero y otros materiales.

Tóxicos

Cualquier sustancia (líquida o sólida) la cual es suficientemente peligrosa para ofrecer riesgo a la salud, si la misma es liberada al ambiente.

Peligros químicos físicos

Pueden producir una condición peligrosa en la parte externa del cuerpo.

Peligros Crónicos

Afectan el cuerpo lentamente como resultado de una exposición prolongada.

7.4 Procedimiento

El estar informado sobre los peligros de las sustancias químicas permitirá a los empleados reconocer los peligros y estar conscientes sobre la importancia de su manejo. El reglamento de Comunicación de Riesgo se concentra en los siguientes puntos:

7.4.1(a) **El Manufacturero deberá:**

7.4.1(a)(1) Identificar todo peligro físico y para la salud de todo material producido o importado al país.

7.4.1(a)(2) Reportar estos peligros por medio de una etiqueta de advertencia y la Hoja de Datos Químicos(MSDS).

7.4.1(b) **HRC aplicará esta información de la siguiente manera:**

7.4.1(b)(1) Identificará todos las sustancias químicas peligrosas en el área de trabajo.

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7.4.1(b)(2) Obtendrá una Hoja de Datos Químicos actualizada que estará disponible en el área de trabajo.

7.4.1(b)(3) Adoptará prácticas seguras en el trabajo, los equipos de protección personal y los controles de ingeniería necesarios.

7.4.1(b)(4) Asegurará que todos los trabajadores reciban información y el entrenamiento necesario para realizar su trabajo en forma segura.

7.4.1(c) **El empleado deberá:**

7.4.1(c)(1) Leer y seguir instrucciones de las etiquetas de precaución del producto y de la Hoja de Datos Químicos.

7.4.1(c)(2) Usar el equipo de protección personal necesario.

7.4.1(c)(3) Seguir las prácticas de seguridad según los adiestramientos recibidos.

7.4.2 **Las etiquetas de precaución en los productos**

7.4.2(a) Están diseñadas para informarle si una sustancia química es peligrosa.

7.4.2(b) Se requieren en todo envase material peligroso presente en el área de trabajo.

7.4.2(c) Se requieren en todo envase de material peligroso que se transporte de un lugar a otro.

7.4.2(d) Deberán proveer el nombre químico y todos los peligros físicos y para la salud.

7.4.2(e) Las etiquetas en envases trasladados de un lugar a otro, también deberán proporcionar el nombre, dirección y teléfono de una fuente responsable por la sustancia química.

7.4.2(f) Si varios envases colocados en una misma área contienen sustancias químicas similares, la comunicación puede ser dada por medio de señales

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en el área y no necesariamente en las etiquetas de cada envase.

7.4.2(g) Las tuberías no necesitan ser etiquetadas.

7.4.2(h) Los envases portátiles no tienen que ser etiquetados, si la sustancia química es transferida de un envase etiquetado e inmediatamente es usada por el mismo trabajador que hizo la transferencia.

7.4.3 La Hoja de Datos Químicos

7.4.3(a) Provee información detallada sobre los peligros de las sustancias químicas y cómo manejarlas.

7.4.3(b) La hoja de Datos Químicos debe contener:

7.4.3(b)(1) El nombre común y el nombre químico del material

7.4.3(b)(2) El nombre, dirección, y número del teléfono del lugar de Manufactura.

7.4.3(b)(3) Números de emergencia para obtener información inmediata acerca de peligros de las sustancias químicas especificas..

7.4.3(b)(4) La fecha en que la hoja fue escrita o revisada por última vez.

7.4.3(b)(5) Cualquier ingrediente peligroso presente en la sustancia química.

7.4.3(b)(6) Información física que le ayude a identificar la sustancia química y su comportamiento.

7.4.3(b)(7) Información sobre la volatilidad en inflamabilidad.

7.4.3(b)(8) peligros de reacciones químicas con este material.

7.4.3(b)(9) Medidas para controlar los peligros presentados por la sustancia química.

7.4.3(b)(10) Información sobre los peligros a la salud.

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7.4.3(b)(11) Como controlar los derrames y escapes.

7.4.3(c) Todos los materiales químicos usados en los proyectos serán incluidos en la carpeta de Hojas de Datos Químicos. Esta carpeta estará situada en la oficina temporera de los proyectos.

7.4.3(d) El Departamento de Compras hará las gestiones de conseguir los MSDS de los suplidores a través de cartas, fax o llamadas telefónicas.

7.4.3(e) Toda compañía sub-contratada proveerá copias de los MSDS de las sustancias químicas peligrosas que nuestros empleados pudieran estar expuestos.

7.4.4 **Adiestramientos a los empleados:**

7.4.4(a) Se discutirá el manejo adecuado y las medidas de seguridad aplicables a las sustancias químicas presentas en el área de trabajo.

7.4.4(b) El adiestramiento será compulsorio previo a comenzar algún tipo de trabajo que requiera el uso de sustancias químicas.

7.4.4(c) El adiestramiento incluirá en detalle los siguientes aspectos:

7.4.4(c)(1) Identificación de las sustancias químicas por grado de peligrosidad.

7.4.4(c)(2) Manejo de sustancias químicas en condiciones rutinarias o de emergencia.

7.4.4(c)(3) Equipo de protección personal requerido para cada sustancia química en particular.

7.4.4(c)(4) Disposición de sustancias químicas.

SECCION 8
EQUIPO DE PROTECCION PERSONAL

8.1 Propósito

Establecer las normas a seguir para proteger a los empleados de los peligros de seguridad y salud que no puedan ser eliminados de su área de trabajo.

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8.2 Responsabilidades

8.2.1 Personal de Seguridad y Salud Ocupacional

Será responsabilidad del Personal de Seguridad y Salud Ocupacional implantar esta norma en las áreas de trabajo de HRC que así lo requieran.

8.2.2 Supervisores

Será responsabilidad de los empleados utilizar el equipo de protección personal requerido para la tarea que realizará.

8.3 Requerimientos generales

8.3.1 La utilización del quipo de protección personal deberá ir acompañada de controles de ingeniería, y prácticas de trabajo seguras.

8.3.2 Todo equipo de protección personal cumplirá con el diseño y construcción adecuado al trabajo que se espera realizar.

8.3.3 El empleado será responsable del uso adecuado de su equipo de protección personal y de su mantenimiento.

8.3.4 El equipo defectuoso o dañado no se utilizará para realizar el trabajo alguno.

8.3.5 Se proveerá adiestramiento a cada empleado previo a la utilización del equipo de protección personal.

8.4 Procedimiento

El equipo de protección personal está diseñado para proteger diferentes partes del cuerpo incluyendo ojos, cara, cabeza, extremidades, ropa, y vías respiratorias.

8.4.1 El equipo de protección para los ojos y la cara se proveerá donde exista una probabilidad razonable de daño físico pueda ocurrir y se pueda evitar con el mismo.

8.4.1(a) Se utilizará protección adecuada para sus ojos y su cara cuando se trabaje con:

8.4.1(a)(1) Metales fundidos

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8.4.1(a)(2) Sustancias químicas

8.4.1(a)(3) Gases peligrosos

8.4.1(a)(4) Particulado

8.4.1(a)(5) Energía radiante peligrosa

8.4.1(b) Se utilizarán gafas de seguridad donde existe el riesgo de que partículas salten de la máquina o de la operación. Entre estas están:

8.4.1(b)(1) Gafas con protección sencilla, para partículas que vuelen en una sola dirección hacia el trabajador.

8.4.1(b)(2) Gafas con protección a los lados, para partículas que vuelan en diferentes direcciones.

8.4.1(b)(3) Gafas con cristales claros, para usarse en sitios donde re requiera buena visibilidad.

8.4.1(b)(4) Gafas con cristales con tinte, para usarse en sitios donde haya deslumbramientos y partículas que vuelen a velocidad.

8.4.1(b)(5) Gafas con corrección, para empleados con dificultad en la visión.

8.4.1(c) Se utilizará Gafas ("goggles") donde exista el riesgo de polvo, líquidos corrosivos, vapores corrosivos, etc. Estas vienen en plástico con protección lateral. Algunas tienen los lados perforados, para ser usadas en sitios donde se requiera ventilación, estas se usan en sitios donde están o pueden estar presentes vapores de ácidos o corrosivos en la atmósfera.

8.4.1(d) Se utilizarán caretas (faceshield") cuando exista el riesgo de lesiones en los ojos y la cara. Se requerirá el uso de espejuelos o gafas debajo de la careta.

8.4.1(e) Los lentes de contactos no serán permitidos para trabajar en áreas que requiera protección ocular.

8.4.1(f) Si usted usa lentes de prescripción deberá usar:

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8.4.1(f)(1) Gafas protectoras

8.4.1(f)(2) Lentes de seguridad con vidrios se seguridad de prescripción.

8.4.1(g) Los protectores para los ojos deberán cumplir con los Siguientes requisitos mínimos.

8.4.1(g)(1) Deberán proveer protección adecuada.

8.4.1(g)(2) Deberán ser razonablemente cómodos al usuario.

8.4.1(g)(3) Deberán ser duraderos.

8.4.1(g)(4) Deberán poder desinfectarse.

8.4.1(g)(5) Deberán mantenerse limpios y en buenas condiciones.

8.4.1(g)(6) El diseño de construcción, prueba y uso del equipo para protección de los ojos y la cara deberán cumplir con los requisitos de ANSI Z87-1-1968 (American National Standard for Occupational and Educational Eye and Face Protection).

8.4.2 Protección Respiratoria

Ver procedimiento del Programa de Protección Respiratoria

8.4.3 Protección de la cabeza

8.4.3(a) HRC proveerá capacetes de seguridad aprobados donde exista el riesgo de que el empleado le pueda caer un objeto, o que pueda tropezar con un objeto aéreo fijo que quede a menos de siete (7) pies o menos del piso.

8.4.3(b) HR proveerá capacetes de seguridad aprobados donde exista algún riesgo eléctrico aéreo a menos de nueve (9) pies del piso o donde existe la posibilidad de que algún empleado pueda estar expuestos a conductores eléctricos.

8.4.3(c) El equipo de protección para la cabeza deberá cumplir con las siguientes especificaciones:

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8.4.3(c)(1) Estar diseñados para proteger de impactos y penetraciones, lo mismo que de choques eléctricos limitados y quemaduras.

8.4.3(c)(2) La suspensión deberá de ser ajustada de acuerdo al tamaño de su cabeza y deberá mantener el caparazón a una distancia mínima de cuatro (4) centímetros o a una (1) pulgada por encima de la cabeza.

8.4.3(c)(3) Deberán cumplir con otros requisitos como peso, inflamabilidad y aislamiento eléctrico.

8.4.3(d) Los capacetes son diseñados de diferentes tipos de acuerdo a la necesidad, entre estos tenemos:

8.4.3(d)(1) **Clase A**

Hecho de materiales aislantes para proteger de objetos que caigan de encima y de choques eléctricos con voltajes de hasta 2,200 voltios.

8.4.3(d)(2) **Clase B**

Hecho de materiales aislantes para proteger de objetos que caigan de encima y de choques eléctricos con voltajes de hasta 20,000 voltios.

8.4.3(d)(3) **Clase C**

Hecho de materiales aislantes para proteger de objetos que puedan caer de encima. No deberán ser utilizados cerca de cables eléctricos o en donde existan substancias corrosivas.

8.4.3(e) La limpieza de capacetes no se hará con solventes que puedan reducir la resistencia a impacto del mismo.

8.4.3(f) Todos los capacetes aprobados tienen que tener una identificación por la parte inferior con la siguiente información:

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8.4.3(f)(1) Nombre del fabricante

8.4.3(f)(2) American National Standars (ANSI z89.1-1986b A, B, C, 60)

8.4.4 Protección de los Pies

8.4.4(a) HR proveerá protección para los pies a los trabajadores cuando exista el riesgo de que objetos pesados puedan caer sobre los pies, planchas de metal u objetos pesados localizados en el piso rodar sobre los pies, o cuando los pies del trabajador estén expuestos a peligros eléctricos.

8.4.4(b) El equipo de protección para los pies deberá cumplir con las especificaciones descritas en ANSI-1-991.

8.4.4(c) Al igual que con otros tipos de protección personal, la protección de los pies irá de acuerdo al trabajo que tenga que realizar. Entre estos se encuentran:

8.4.4(c)(1) "Instep foot and metatarsal protectors"

Este equipo está hecho de metal corrugado y puede resistir un impacto de hasta 300 libras sin que se deforme o dañe los zapatos o los pies de usuario que estén debajo.

8.4.4(c)(2) Zapatos de seguridad para electricistas.

Estos zapatos protegen al trabajador de los daños que puedan ocurrir antes una exposición con corriente eléctrica. No tiene partes metálicas excepto el casquillo de protección para los dedos de los pies, el cual está aislado del resto del zapato.

8.4.4(c)(3) Botas de goma con o sin protección

Las botas de goma se usan en operaciones donde hay exposición a líquidos corrosivos y humedad. Para situaciones que presenten riesgo de impacto o compresión de los pies, se utilizarán con puntera de acero.

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8.4.4(d) Los zapatos de seguridad estarán reforzados con una estructura de acero que protejan sus pies de perforaciones o de ser aplastados.

8.4.4(e) En los trabajos que no se realicen cerca de cables o conexiones eléctricas expuestas, se usarán zapatos que no tengan metal.

8.4.4(f) Para trabajar en ambiente libre de electricidad estática (Ej. computadoras, equipos electrónicos delicados) se utilizarán zapatos conductores diseñados para descargar las cargas estéticas a la alfombra o al piso.

8.4.4(g) Para trabajar con sustancias químicas utilizará calzado de gaucho o de materiales sintéticos. No utilizará botas o zapatos de cuero al manejar sustancias químicas cáusticas. Estas substancias pueden corroer el cuero y entrar en contacto con los pies.

8.4.5 Protección Eléctrica

8.4.5(a) Las mantas, guantes, y mangas de enchufe deberán estar marcados como:

Clase de equipo	Voltaje seguro para trabajar
Clase 0	1,000 rms
Clase 1	7,500 rms
Clase 2	17,000 rms
Clase 3	26,500 rms
Clase 4	36,000 rms

8.4.5(b) El equipo NO resistente a ozono se marcará como Tipo I.

8.4.5(c) El equipo resistente a ozono se marcará como Tipo II.

8.4.5(d) El equipo de protección deberá contener la identificación del manufacturero y el tamaño.

8.4.5(e) El equipo de protección deberá estar libre de daños físicos o irregularidades.

8.4.5(f) Equipo insulado deberá ser inspeccionado diariamente e inmediatamente después de un incidente.

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8.4.5(g) El equipo insulado se limpiará y almacenará protegiéndolo de la luz, temperatura extrema, exceso de humedad u otras sustancias o condiciones dañinas.

8.4.5(h) El equipo que sea reparado deberá ser re-examinado antes de que sea usada por el empleado.

8.4.6 Protección de las manos

8.4.6(a) Se utilizará protección adecuada para las manos cuando esté expuesto a peligros tales como la absorción de substancias peligrosas, las cortaduras y raspaduras severas, las perforaciones, las quemaduras químicas, las quemaduras térmicas y las temperaturas extremadamente peligrosas.

8.4.6(b) La solución del equipo de protección para las manos estará basado en el trabajo a realizarse, condiciones presentes, duración y uso, peligros existentes y peligros potenciales identificados.

8.4.6(c) Cuando trabaje con materiales químicos, los guantes deberán estar sellados con cinta adhesiva en el borde superior o doblados de tal forma que eviten que los líquidos penetren el guante o entren en contacto con el brazo.

8.4.6(d) Los guantes de vinilo, gaucho o neopreno sirven para trabajar con la mayoría de los materiales químicos. Se usarán guantes a base de materiales sintéticos si se trabaja con productos a base de petróleo.

8.4.6(e) No se utilizaran guantes reforzados con metal al trabajar con equipos eléctricos.

8.4.6(f) Se deberá observar precaución al utilizar guantes cuando se está trabajando con maquinaria en movimiento.

8.4.6(g) Los guantes deberán ser del tamaño adecuado para cada trabajador.

8.4.7 Protección de los Oídos

8.4.7(a) Se puede sufrir pérdida permanente del sistema auditivo debido a que los ruidos elevados pueden ocasionar daños sin causar dolor. El utilizar incorrectamente la protección

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para sus oídos puede ser tan dañino como el no utilizar ninguna clase de protección.

8.4.7(b) Sera necesaria proteger los oídos cuando:

8.4.7(b)(1) Los sonidos en el trabajo sean irritantes.

8.4.7(b)(2) Tenga que levantar la voz para que alguien que está a menos de un metro (3 pies) de distancia lo pueda escuchar.

8.4.7(b)(3) Existan avisos que indiquen que se requiere protección para los oídos.

8.4.7(b)(4) Cuando el nivel del sonido alcanza los 85 decibeles o mas por un periodo de ocho horas.

8.4.7(b)(5) Cuando existan intervalos breves de sonido que puedan causar daño a su sistema auditivo.

8.4.7(c) Los tapones para los oídos ofrecen la mayor protección, y las más efectivas son los tapones de espuma que se ajustan al canal auditivo. Para insertar los tapones adecuadamente:

8.4.7(c)(1) Presionar el tapón con los dedos para disminuir su grosor.

8.4.7(c)(2) Se colocará adecuadamente dentro del canal auditivo.

8.4.7(c)(3) Se halará la oreja hacia atrás y hacia arriba mientras inserta el tapón.

8.4.7(c)(4) Después de insertar el tapón, manténgala en su lugar con el dedo durante unos segundos para asegurar que se ajuste adecuadamente al expandirse.

8.4.7(d) Los tapones para los oídos podrán ser utilizados también como una forma de protección para sus oídos. Estos:

8.4.7(d)(1) Se ajustan alrededor de los oídos

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8.4.7(d)(2) Su efectividad se ve limitada por el sello que forman alrededor de las orejas.

8.4.7(d)(3) Las copas de las tapa oídos deberá estar hecho de material espumoso.

8.4.7(d)(4) El vello facial puede disminuir su protección al interferir con el sellado de las copas.

8.4.7(d)(5) Los aretes o anteojos pueden interferir con el sellado de las copas.

8.4.7(e) Para asegurar un nivel adecuado de protección , los tapones y tapa oídos deberán ser utilizadas simultáneamente.

8.4.7(f) Al utilizar protección para los oídos usted puede estar al mismo tiempo aislando sonidos que necesite escuchar, tales como voces y alarmas. Por lo tanto, las alarmas deberán estar acompañadas por luces rojas intermitentes.

8.4.8 Ropa de Protección

Está diseñada para proteger al trabajador del calor, frío, de las sustancias Químicas corrosivas o abrasivas, polvos peligroso, para mantener la ropa del trabajador limpia. La ropa varía desde camisas, pantalones, delante hasta el encubridor completo del cuerpo.

8.4.9 Correas de Seguridad, Sogas para Amarrarse y Cuerdas Salvavidas

8.4.9(a) Las cuerdas salvavidas, las sogas para amarrarse y los cinturones de seguridad se usarán solamente para la protección del trabajador. Estas no podrán usarse para levantar o amarrar cargas, una vez se usen con este propósito deberán sacarse de servicio.

8.4.9(b) Las cuerdas salvavidas se asegurarán sobre el punto de operación, a un anclaje o miembro estructural capaz de soportar una carga muerta mínima de 5,400 lbs.

8.4.9(c) Las cuerdas salvavidas deberán ser de ½ pulgada de nylon o equivalente, con largo máximo de seis (6) pies.

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8.4.9(d) Todos los cinturones de seguridad y cuerdas salvavidas deberán soportar una tensión de 4,000 libras romperse o deformarse.

8.4.10 Trabajando sobre a cerca de cuerpos de agua

8.4.10(a) El empleado que trabaje sobre o cerca de un cuerpo de agua deberá utilizar chaquetas o chalecos aprobados por la Guardia Costanera.

8.4.10(b) Las chaquetas o chalecos flotantes serán inspeccionados antes y después de cada uso para detectar defectos.

8.4.10(c) Se proveerán flotantes en forma de anillo con al menos 90 líneas para las operaciones de rescate de emergencias. La distancia entre los anillos no deberá exceder los 200 pies.

8.5 Se deberá conocer las limitaciones del equipo de protección personal, ya que estos no protegerán al empleado de todos los peligros que lo rodean. Entre las limitaciones se encuentran:

8.5.1 Los tapa oídos que presentan rajaduras, cortaduras o que no tengan todos los empaques, reducen su protección.

8.5.2 Los lentes rayados o sucios limitan la visión.

8.5.3 La suspensión del capacete se examinará periódicamente para identificar cintas desgastadas, remaches sueltos, costuras deshechas u otros defectos.

8.5.4 El capacete se remplazará al menos cada dos a cinco añoso después de un impacto severo.

8.5.5 Si el tamaño del calzado no es el apropiado, el peligro puede consistir más en tropezarse que en tener un accidente relacionado con su trabajo.

8.5.6 Los equipos de protección personal se deberán limpiar y desinfectar para evitar infecciones o posible contaminación con sustancias químicas peligrosas.

8.6 Adiestramientos

8.6.1 HRC proveerá adiestramientos a cada trabajador previo a entregar equipo de protección personal correspondiente. Cada empleado deberá conocer:

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8.6.1(a) Cuando el equipo de protección personal es necesario.

8.6.1(b) Que equipo de protección personal es necesario.

8.6.1(c) Como usar apropiadamente el equipo de protección personal

8.6.1(d) Las limitaciones del equipo de protección personal

8.6.1(e) Cuidado, mantenimiento, vida útil, y disposición

8.6.2 Cada empleado deberá mostrar dominio de la forma correcta de usar su equipo de protección personal previo a su uso.

8.6.2(a) Se deberá proveer adiestramiento nuevamente si:

8.6.2(a)(1) Ocurren cambios de tareas en el lugar de trabajo.

8.6.2(a)(2) Si el empleado presenta deficiencia en el uso correcto del equipo de protección personal.

PROTECCION RESPIRATORIA

9.1 Propósito

Establecer las normas de Seguridad para evitar enfermedades ocupacionales causadas por la inhalación de aire contaminado con polvo, humo, neblina, rocío, gases, o vapores peligrosos.

9.2 Responsabilidades

9.2.1 **Personal de Seguridad y Salud Ocupacional**

Será responsabilidad del Personal de Seguridad y Salud ofrecer el adiestramiento a todos los empleados y velar por el cumplimiento de este procedimiento.

9.2.2 **Supervisores**

Será responsabilidad de los supervisores asegurar que cada empleado utilice su equipo de protección respiratoria, cuando sea requerido.

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9.2.3 **Empleados de Operaciones**

Será responsabilidad de los empleados usar el equipo de protección respiratoria en las tareas que pueda haber exposición a contaminantes vía inhalación.

9.3 Definiciones

Respirador

Todo tipo de aparato de respiración personal cuya función es ayudar a prevenir La entrada de substancias dañinas dentro de los pulmones durante la respiración:"

Respiradores purificadores del aire

Filtran y eliminan contaminantes peligrosos del aire antes que sean inhalados.

Respiradores suplidos de aire

Proveen aire fresco de una fuente externa o aislada

Atmósfera deficiente en oxigeno

Tiene menos de 19.5% de oxígeno por volumen

Atmósfera Inmediatamente peligrosa a la Vida o a la Salud

Atmósfera que contengan vapores, partículas o gases que puedan causar la muerte o daño irreversible a la salud inmediatamente se entre en contacto con ellos.

9.4 Procedimiento

Los peligros a que pueden estar expuestos los pulmones no son siempre fáciles de detectar. Algunos de los peligros más comunes son la falta de oxígeno y la presencia de polvos peligrosos, neblinas, humos, gases, vapores y aerosoles incluyendo substancias que podrían causar cáncer, daño pulmonar, u otras enfermedades o la muerte.

Los respiradores tienen sus limitaciones y no son sustitutos por controles efectivos de Ingeniería. Si éste falla, la sobre exposición será el resultado. Para reducir la posibilidad de que el respirador falle, éste deberá ser manejado correctamente.

Por lo tanto, antes de seleccionar un respirador se tomarán en cuenta las siguientes recomendaciones:

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9.4.1 Solo equipo aprobado por el Instituto Nacional de Seguridad y Salud, NIOSH, siglas en inglés, será usado.

9.4.2 Solo personas físicamente capaces de completar las tareas con el uso de un Respirador sea requerido.

9.4.3 Serán consideradas las propiedades químicas y físicas del contaminante, la toxicidad y la concentración del material peligroso, y la cantidad de oxígeno presente en el área de trabajo al momento de seleccionar el respirador. La naturaleza y extensión del peligro, la razón de trabajo, así como las limitaciones y características de los respiradores disponibles son también factores de selección.

9.5 Clasificación de respiradores

Hay dos tipos de respiradores, los purificadores de aire y los de aire suplido.

9.5.1 **Purificadores**

Usan filtros a material absorbente para remover las substancias del aire. Estos respiradores no suplen oxígeno y no pueden ser usados en atmósferas deficientes en oxígeno.

9.5.1(a) Son desechables y protegen contra polvo solamente.

9.5.1(b) Es un respirador de cara para polvos, gases, vapores y neblinas.

9.5.2 **Aire suplido**

9.5.2(a) Los respiradores de aire suplido proveen aire limpio desde fuera del área de trabajo. Proveen servicio restringido de movimiento.

Al usar este equipo se debe considerar:

9.5.2(a)(1) La máscara puede cubrir toda la cara o solo la mitad de la misma. Si usa la que cubre toda la cara no deberá usar "goggles" o gafas de seguridad.

9.5.2(a)(2) Estos respiradores usan cartuchos químicos para vapores orgánicos, ácidos y niveles bajos de polvo. Se verificará la efectividad del cartucho contra el contaminante indicado

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antes de usarse. Fuentes de información para su selección serán los MSDS, la etiqueta del cartucho y el Personal de Seguridad y Salud Ocupacional. Estos respiradores proveen protección contra monóxido de carbono.

9.5.2(a)(3) Estos proveen protección contra monóxido de carbono.

9.5.2(a)(4) Cuando sienta olor, irritación, es indicativo que el respirador no está funcionado correctamente. Deberá salir del área inmediatamente y reemplazar el cartucho.

9.5.2(b) Entre el equipo de protección respiratoria de aire suplido se encuentran:

9.5.2(b)(1) Aparato respirable auto-contenido (SCBA)

Consiste de una máscara que cubre la cara conectada a un tanque de aire comprimido. Se usa cuando la cantidad de en el aire no es suficiente para respirar, cuando hay una cantidad de gases o vapores peligrosos en concentración tal que no pueden ser filtrados fácilmente. Da libertad de movimiento, pero tiene una cantidad de aire limitada.

9.5.2(b)(2) Respirar conectado con manga de aire

Se usa en las mismas situaciones que el SCBA. Limita la libertad de movimiento debido a la manga. Suple aire por tiempo extendido. Los respiradores de aire suplido no deben ser usados en ninguna atmósfera que pueda ser inmediatamente peligrosa a la salud o a la vida, (incluyendo atmósferas con deficiencia de oxígeno) a menos que esto equipado con una botella de aire de escape.

NOTA: El aire deberá ser suplido de cilindros o compresores de aire. Nunca se usará oxígenos con respiradores de aire suplido. Los conectores de la línea de aire serán independientes de otros sistemas de gases.

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9.5.3 Características y factores para seleccionar un respirador

Al momento de seleccionar un respirador se tomará en cuenta:

Peligro	Respiración
Deficiencia de oxígeno inmediatamente peligroso para la vida (IDHL)	Cualquier SCBA de presión positiva. Combinación de respirador con manga de aire suplido con una unidad auxiliar de aire auto-contenido.
No peligros para la vida o salud.	Cualquier SCBA de presión positiva de respirador de con manga de aire suplido. Máscara de gas. Respirador de cartucho químico.
Inmediatamente peligroso para la salud o la vida.	Cualquier SCBA de presión positiva. Combinación de respirador con manga de aire suplido con una unidad auxiliar de aire auto-contenido.
Vapores y gases contaminantes	Cualquier SCBA de presión positiva. Combinación de respirador con manga de aire suplido con una unidad auxiliar de aire auto-contenido.
Particulado contaminante	Cualquier respirador con manga de aire suplido incluyendo respirador de máquina de pulido ("abrasive blasting"). Respirador purificador de aire mecánico con filtros de alta eficiencia. Cualquier respirador purificador con filtro especifico.
Gases y particulados contaminantes	Cualquier SCBA de presión positiva. Combinación de respirador con manga de aire suplido con una unidad auxiliar de aire auto-contenido.
Escapar de una atmósfera contaminada que puede ser inmediatamente peligroso para la vida o la salud.	Cualquier SCBA de presión positiva. Combinación de respirador con manga de aire suplido y unidad de escape.

NOTAS:

- En áreas donde el usuario pueda ser afectado por una atmósfera tóxica o eficiente de oxigeno, al menos una persona adicional deberá estar presente, y mantener comunicación continua.
- Cuando un SCBA o mascara con manga y ventilador es usado en una atmósfera inmediatamente peligrosa a la vida o al salud, personas con equipo de rescate se mantendrán alerta.

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- Personas usando respirador con manga de aire suplido en atmósferas inmediatamente peligrosas par al vida o a la salud, deberán estar equipadas con un cinturón de cuerpo completo y línea de seguridad o provisiones equivalentes para el rescate de personas. Persona(s) pendiente con SCBA deberá estar en la base de aire fresco más cercano.

9.6 Pruebas de ajuste

9.6.1 Aspectos generales

9.6.1(a) Todos los purificadores de aire de diferentes de marcas, pero iguales modelos, tienen características de ajuste diferentes. Ningún respirador le ajusta a todo el mundo. Es necesario que el respirador ajuste bien, para asegurar una protección efectiva.

9.6.1(b) Los empleados que usen espejuelos correctivos, deberán usar monturas especiales para sostener los lentes correctivos dentro de las mascaras que cubren toda la cara. Los lentes de contacto no serán permitidos.

9.6.1(c) Está prohibido el uso de barbas, bigotes, y patillas que puedan interferir con el sello de la máscara del respirador.

9.6.2 Selección del purificador para prueba de ajuste

9.6.2(a) Se seleccionará el tamaño adecuado del respirador de por lo menos tres tamaños.

9.6.1(b) La selección será fuera del cuarto de ajuste para evitar fatiga.

9.6.1(c) El respirador seleccionado será el más confortable y deberá durar por lo menos cinco (5) minutos sin problemas. Para asegurar a comodidad los siguientes puntos deberán revisarse:

9.6.2(c)(1) Barbilla en su lugar

9.6.2(c)(2) Poner mascara en la cara

9.6.2(c)(3) Tensión en la correas

9.6.2(c)(4) Ajuste

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9.6.1(c)(5) Espacio para hablar

9.6.1(c)(6) Tendencia a resbalarse

9.6.1(c)(7) Mejillas llenas

9.6.1(c)(8) Observación personal en un espejo

9.6.1(c)(9) Tiempo adecuado para acostumbrarse.

9.6.3 Prueba de presión positiva y negativa cada vez que el respirador sea usado.

9.6.3(a) **Prueba Positiva**

Cierre a válvula de exhalación y exhale suavemente dentro de la máscara. Una pequeña presión positiva deberá generarse dentro de la máscara levantándola un poco sin tener escapes de aire por el sello.

9.6.3(b) **Prueba Negativa**

Tape la entrada del respirador e inhale suavemente. La máscara deberá colapsarse contra la cara. Aguante la respiración por diez (10) segundos. Si la máscara se mantiene colapsada contra la cara y no ocurre escape, el sello será satisfactorio.

9.6.4 Efectividad del ajuste del respirador

9.6.4(a) **Ajuste Calificativo**

Envuelve la introducción de substancias olorosas e irritantes alrededor del respirador. Si la persona no detecta el olor o la irritación es indicativo que el ajuste es correcto. Para este tipo de ajuste se tomará en consideración lo siguiente:

9.6.4(a)(1) El respirador deberá estar equipado con filtros de vapor orgánico para protección contra vapores orgánicos.

9.6.4(a)(2) Después de seleccionar, ponerse y propiamente ajustar el respirador, entrará al área de prueba.

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9.6.4(a)(3) Se realizarán varios ejercicios de pruebas como: respiración normal, respiración profunda y regular, mover la cabeza de lado a lado e inhalar cuando este de lado a lado, mover la cabeza de arriba hacia abajo, hablar fuerte y suave, lea pasaje del arco iris.

9.6.4(a)(4) Tener respirador puesto por diez (10) minutos antes de comenzar la prueba.

9.6.4(b) **Ajuste cuantitativo**

Envuelve a introducción de un aerosol no peligroso al usuario mientras se está en el área de prueba. Mientras el usuario hace ejercicios que podrían producir escapes, el aire fuera y dentro del respirador será medido para la presencia del aerosol y determinar si existen escapes. Después de ajuste inicial. Esto es aplicable a respiradores de presión negativa. También se hará ajuste si:

9.6.4(b)(1) Cambia de respirador

9.6.4(b)(2) Registra olor o irritación

9.6.4(b)(3) Cambio los cartuchos

9.6.4(b)(4) Cambio cualquier parte del respirador

9.7 Inspección de Respiradores

9.7.1 Inspeccionar cada respirador antes y después de cada uso. Si el respirador no es usado rutinariamente, pero es mantenido para urgencia deberá ser inspeccionado.

9.7.2 Se verificará cada respirador para: ajuste de las conexiones (deterioración), condición de la careta (no roturas o cortaduras en las gomas, lentos partidos o rayados).

9.7.3 Elasticidad de las correas.

9.7.4 Asegurarse que la goma de las válvulas de exhalación e inhalación estén en su lugar y en buenas condiciones.

9.7.5 Asegurarse que las juntas de goma de los cartuchos estén en buenas condiciones.

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9.7.6 Se verificará que los cartuchos químicos sean reemplazados cuando sea necesario para mantener complete protección. Si se siente olor o irritación, si tiene dificultad al respirar se cambiaran los cartuchos.

9.7.7 Se verificará cada SCBA o respirador con manga de aire suplido para:

9.7.7(a) Condición de la careta, lentes rayados o rotos.

9.7.7(b) Elasticidad de las correas.

9.7.7(c) Operación propia de las válvulas de inhalación y exhalación.

9.7.7(d) Examinar la manga para huecos o roturas, estrechándola.

9.7.7(e) Examinar las conexiones de las mangas para deterioración.

9.7.7(f) Examinar la válvula de presión de aire.

9.7.8 Se examinara que la manga de alta presión este apretada el cilindro siguiendo los siguientes pasos:

9.7.8(a) Se abrirá el cilindro de aire para presurizar el regulador.

9.7.8(b) La presión en regulador deberá indicar aproximadamente la misma presión del cilindro.

9.7.8(c) Se cerrará la válvula del cilindro de aire y se observará la presión en el regulador por uno o dos minutos. Si la presión baja esto indica que la manga del regulador esta defectuosa.

9.7.8(d) Al abrir la válvula de paso roja el aire deberá salir.

9.7.8(e) Se observará el marcador del regulador de aire para ver la presión.

9.7.8(f) Se cerrarán las válvulas.

9.7.9 Los supervisores inspeccionarán los respiradores mensualmente y registrarán la inspección.

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9.8 Mantenimiento de los Respiradores

9.8.1 Luego de usa el respirador este se deberá limpiar y desinfectar.

9.8.2 Los filtros se reutilizarán si están en buenas condiciones, de lo contrario, se colocarán filtros nuevos.

9.8.3 Se almacenarán dentro de una bolsa plástica cerrada, y se colocarán de tal manera que la parte de la cara y la válvula de exhalación descansen en una posición normal.

9.8.4 Se mantendrán expedientes de las inspecciones, reparaciones y la fecha en que la unidad fue puesta en servicio nuevamente.

9.8.5 Cada respirador será identificado con el nombre de su usuario.

9.8.6 Cada suplidor de aire será identificado con un número de serie y el empleado se asegurará de tener el mismo siempre.

9.9 Exámenes Médicos

9.9.1 La persona asignada a las tareas que requieren el uso del respirador deberá estar físicamente en forma para hacer el trabajo usando el respirador.

9.9.2 Se someterán a exámenes de función pulmonar, anualmente, a los empleados que necesiten usar un respirador.

9.9.3 Basado en estos resultados y otros exámenes, el médico determinará si el empleado puede o no usar un respirador rutinariamente.

9.10 Adiestramientos

Todo empleado que requiera el uso de respiradores en su área de trabajo deberá completar satisfactoriamente el adiestramiento sobre respiradores. Este será parte de su entrenamiento inicial de seguridad. El adiestramiento sobre respiradores cubrirá los siguientes tópicos:

9.10.1 Los diferentes tipos de respiradores, como solucionarlos y cuáles son sus limitaciones.

9.10.2 Identificar los componentes del respirador, sus funciones y usos.

9.10.3 El usa correcto del respirador: su inspección, verificación de ajuste, y uso en operaciones normales y de emergencia.

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9.10.4 Como limpiar, desinfectar, reparar y almacenar el respirador.

9.10.5 Discutir el reglamento de OSHA y los requerimientos para los respiradores.

9.10.6 Realizar una práctica en el campo donde se use el respirador en área no contaminada.

9.10.7 Usar el respirador en una atmósfera de prueba.

SECCION 10
PREVENCION DE CAIDAS

10.1 Propósito

Establecer un programa para proteger a los empleados en trabajos que se realicen sobre superficies elevadas en cumplimiento con las normas y reglamentos establecido por las agencias reguladoras.

10.2 Responsabilidades

10.2.1 **Personal de Seguridad y Salud Ocupacional**

10.2.1(a) Será responsabilidad del Personal de Seguridad y Salud Ocupacional ofrecer el entrenamiento a todos los empleados que trabajen sobre áreas elevadas y velar por el cumplimiento de este procedimiento.

10.2.1(b) Será responsabilidad de evaluar las áreas de trabajo para determinar la protección requerida y apropiada de cada situación.

10.2.1(c) Verificará que las medidas protectoras se realicen de acuerdo con las especificaciones de las agencias reguladoras.

10.2.2 **Supervisores**

10.2.2(a) Se asegurarán que todo empleado tenga el equipo de protección requerido antes de realizar las tareas asignadas.

10.2.2(b) Se asegurarán que todo el equipo de protección personal así como los sistemas de protección de caídas estén en buenas condiciones.

10.2.2(c) Será responsabilidad de los supervisores de ejecutar este procedimiento.

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10.2.3 **Empleados de Operaciones**

10.2.3(a) Usarán todo el equipo de protección personal que se requiera según la tarea a realizar.

10.2.3(b) Notificarán al supervisor cualquier condición insegura en los sistemas de protección provistos en el área de trabajo.

10.2.3(c) Inspeccionarán todo equipo de protección antes de realizar el trabajo.

10.2.3(d) Será responsabilidad de los empleados el seguir las reglas de este procedimiento.

0.3 Definiciones Caída Libre

Es el espacio de tiempo desde que la persona comience a caer hasta que el sistema para detener caída comience a funcionar.

Distancia de desaceleración

Distancia adicional que el trabajador necesita recorrer para detenerse por completo luego que el sistema se active.

10.4 Requerimientos

Este programa aplica a todo trabajo que se realice a una altura de más de cuatro (4) pies y donde halla aberturas en pisos, paredes y techos con una caída de más de cuatro (4) pisos. Los requerimientos necesarios para la implantación de este programa son:

10.4.1 Las aperturas en los pisos deberán ser resguardadas por medio de una baranda Estándar y tabla de pie o por una tapa en todos los lados abiertos excepto en las entradas y las salidas.

10.4.2 Toda plataforma deberá ser resguardada por medio de una baranda estándar y tabla de pie en todos los lados abiertos.

10.4.3 Las escotillas deberán tener una tapa de fuerte construcción y cuando la apertura no esté en uso, la tapa deberá de cerrarse.

10.4.4 Donde haya riesgo de caída, ya sea a través de una apertura a un tragaluz, se proveerá resguardo con barandas fijas en todos los lados abiertos con una tapa capaz de sostener el peso de unas doscientas (200) libras.

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10.4.5 Las fosas y "manholes" estarán resguardados para tapas de fuerte construcción. Mientras la tapa no esté colocada, las aperturas deberán de protegerse en todos los lados abiertos mediante el uso de barandas removibles.

10.4.6 Las aperturas en las paredes estarán resguardadas con una barandas removibles.

10.4.7 Todo piso o plataforma con lados abiertos a seis (6) pies o más sobre piso adyacente a nivel del suelo, estará resguardado por barandas estándares, excepto, donde esté la entrada para la rampa a la escalera. Si hay personas pasando cerca del área y los equipos o materiales pueden crear un riesgo de caídas se proveerán tablas de pie o tola metálica.

10.4.8 Las barandas estándares consistirán de una baranda superior, baranda intermedia, tabla de pie y postes. Estas tendrán una altura vertical de aproximadamente cuarenta y dos (42) pulgadas de la superficie superior de la baranda superior hasta el piso, suelo o plataforma. La baranda intermedia estará a la distancia media entre la baranda superior y el piso, suelo o plataforma. La tabla de pie será de cuatro (4) pulgadas de alto como mínimo.

10.4.9 Todo trabajo que se realice en techos a una altura mayor de dieciséis (16) pies estará protegido en todos los lados abiertos y los bordes del techo por medio del uso de barandas estándares, andamios o plataformas con barandas o malla de seguridad o cinturón de seguridad y sistema de líneas de advertencia.

10.4.10 Las líneas de advertencia serán erguidas alrededor de todos los lados abiertos del área de trabajo y estarán a no menos de seis (6) pies del borde del techo.

10.4.11 Las líneas de advertencia consistirán de una soga, cable o cadena y las estaciones de soporte erguidas a intervalos no mayores de seis (6) pies con material altamente visible. La saga, cable o cadena será rígida y apoyada de manera tal que el punto más bajo no sea menor de treinta y cuatro (34) pulgadas desde la superficie del techo y el punto más alto no sea mayor que treinta y nueve (39) pulgadas desde la superficie de techo.

10.4.12 Las estaciones de soporte serán capaces de resistir (sin inclinarse) una fuerza de dieciséis (16) libras aplicada horizontalmente en contra de la estación; treinta (30) pulgadas arriba de la superficie del techo, perpendicular a la línea de advertencia y en la dirección del borde del techo.

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10.4.13La soga, cable o cadena tendrá una fuerza de tensión mínima de quinientas (500) libras.

10.4.14No se almacenarán materiales dentro de seis (6) pies del borde del techo a menos que tenga barandas erigidas. Estos materiales deberán estar estables y seguros.

10.4.15Los cinturones de seguridad deberán ser como mínimo de nilón de media pulgada o equivalente con un largo no mayor seis (6) pies y con una fuerza nominal de rompimiento de cinco mil cuatrocientas (5,400) libras.

10.4.16Todo andamio que tenga plataforma con lados abiertos a más de diez (10) pies arriba del piso o suelos tendrá barandas estándares y tablas de pie.

10.4.17Todo andamio que tenga plataforma a una altura entre cuatro (4) y diez (10) pisos del nivel del suelo y teniendo una dimensión horizontal mínima en cualquier dirección de menos de cuarenta y cinco (45) pulgadas tendrá barandas estándares instaladas en todos los lados abiertos y finales de la plataforma.

10.4.18Todo trabajo que se realice cerca o en el borde de un techo de cualquier edificio el empleado estará protegido mediante el uso de cinturón de seguridad o barandas estándares en andamios o plataformas.

10.4.19Todo techo que tenga una apertura con una caída de cuatro (4) pies o más deberá de proteger la apertura mediante el uso de barandas estándar fijas en todos los lados abiertos a una plancha que cubra todo el hueco y que sea capaz de sostener el peso de una persona de doscientas (200) libras.

10.4.20Todo empleado que realice trabajos en las tuberías del "pipe rack" utilizará cinturón de seguridad y se amarrará a una superficie sólida.

10.4.21No se permitirá a ningún operador de montacargas elevar a cualquier empleado con las horquillas del montacargas; excepto que se use la plataforma hecha para ese propósito y a una altura que no sobrepase lo permitido por el manufacturero del montacargas.

10.4.22Las escaleras portátiles se usarán del tamaño correcto para el trabajo que se realice y nunca se deberá parar en el escalón superior.

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10.5 Procedimiento

10.5.1 Sistemas de Protección

Estos sistemas detienen la caída después que el trabajador ha resbalado. Los equipos utilizados para establecer este tipo de protección incluyen:

10.5.1(a) Un punto de anclaje

10.5.1(b) Cinturones o Arneses

10.5.1(c) Líneas de seguridad
10.5.1(d) Sogas

10.5.1(e) Dispositivos de desaceleración

10.5.2 Equipos que se deben usar

Los equipos provistos por HRC cumplen con regulaciones específicas en cuanto a su resistencia. Están diseñados para detener las caídas rápidamente y sin imponer demasiada fuerza al cuerpo. Se tomarán en consideración los siguientes elementos:

10.5.2(a) t Se asegurará de utilizar el equipo apropiado para el tipo de trabajo que se está efectuando.

10.5.2(b) Se seguirán las instrucciones del fabricante (indican cómo se debe usarse cada sistema de protección).

10.5.2(c) Se utilizará el sistema de desaceleración correcto con el cinturón o el arnés adecuado.

10.5.2(d) No se utilizará ningún sistema que permita una caída libre de más de seis (6) pies.

10.5.2(e) Se verificará que los cierres mecánicos estén disonados para ser usados con el equipo al cual están conectados.

10.5.2(f) Todas las partes del sistema deberán funcionar apropiadamente entre sí. Cualquier substitución deberá ser aprobada por el supervisor.

10.5.2(g) El equipo de protección contra las caídas será usado únicamente para proteger al trabajador contra las caídas.

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10.5.3 **La conexión al punto de anclaje**

10.5.3(a) Se verificará que el punto de anclaje sea lo suficientemente fuerte como para resistir la fuerza necesaria para detener la caída.

10.5.3(b) Se inspeccionará el punto de anclaje y se verificará que no tenga daños antes de conectarse a él.

10.5.3(c) Se utilizará un punto de anclaje que no tenga obstáculos debajo, sobre los cuáles podría caer.

10.5.3(d) Al seleccionar el punto de anclaje, se dejará la distancia suficiente para una posible caída libre, la distancia de desaceleración del equipo y la distancia de estiramiento de la línea de seguridad.

10.5.3(e) Se revisará la etiqueta del fabricante para las indicaciones de la distancia de estiramiento del equipo y la distancia de desaceleración.

10.5.3(f) Una buena guía es permitir una distancia máxima de desaceleración de un metro.

10.5.3(g) Se tendrá presente que mientras más lejos esté el punto de anclaje de su conexión a la línea de seguridad, mayor será la distancia de estiramiento de la línea.

10.5.4 **Como efectuar la conexión**

10.5.4(a) **Líneas de conexión**

10.5.4(a)(1) Las líneas de seguridad horizontales deberán ser diseñadas, instaladas y utilizadas bajo la supervisión de personal cualificado.

10.5.4(a)(2) Mientras mayor sea la cantidad de trabajadores conectados a una línea horizontal, más fuertes deberán ser los puntos de anclaje y la línea de seguridad.

10.5.4(a)(3) Las líneas de seguridad en posición vertical nunca deberán tener más de un trabajador conectado a ellas.

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10.5.4(b) **Ganchos de seguridad**

Para evitar que un gancho de seguridad se abra accidentalmente;

10.5.4(b)(1) No se conectará el gancho a un objeto que pueda ejercer presión sobre el seguro del tal forma que pueda abrirlo.

10.5.5 **Inspección de equipos**

10.5.5(a) Los equipos se mantendrán en buenas condiciones. Los equipos defectuosos deberán ser reemplazados inmediatamente.

10.5.5(b) Se inspeccionará todo equipo de protección contra caídas antes de cada uso.

10.5.5(c) Cualquier equipo que haya sufrido el impacto de una caída deberá ser inspeccionado por personal cualificado antes de que pueda ser utilizado nuevamente.

10.5.5(d) Se examinará todo tipo equipo para verificar que no tenga Señales de desgastes, daños, moho, o distorsión.

10.5.5(e) Se verificará que las cintas o correas no estén cortadas, rotas, torcidas o fragmentadas.

10.5.5(f) Se revisará que no haya daños causados por fuego, ácido u otros corrosivos.

10.5.5(g) Las partes metálicas deberán de estar libres de rajaduras, bordos afilados y asperezas.

10.5.5(h) Los ganchos de seguridad deberán cerrarse y asegurarse sin ningún problema.

10.5.5(i) Las hebillas deberán cerrarse y asegurarse sin ningún problema.

10.5.5(j) Se revisarán que las cuerdas para identificar: desgastes, fibras rotas, costuras sueltas o decoloración.

10.5.5(k) Se asegurarán que los puntos de anclaje de las líneas de seguridad y las monturas no estén sueltas o dañadas.

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10.5.5(l) Se revisarán las instrucciones del fabricante para el proceso de inspección. Si algún artículo está dañado o defectuoso, se pondrá fuera de servicio inmediatamente.

SECCION II
ANDAMIOS

11.1 Propósito

Establecer las normas para asegurar que el montaje, desmontaje y utilización de los andamios se haga de forma correcta.

11.2 Responsabilidades

11.2.1 **Personal de Seguridad y Salud Ocupacional**
Será responsabilidad del Personal de Seguridad y Salud Ocupacional adiestrar al personal de operaciones y velar por el cumplimiento de este procedimiento.

11.2.2 **Supervisores**

Será responsabilidad de los supervisores hacer cumplir este procedimiento.

11.2.3 **Empleados de Operaciones**

Será responsabilidad de los empleados seguir este procedimiento.

11.3 Definiciones

Andamio

Es una plataforma elevada de trabajo destinada a soportar personas y materiales. Es de carácter temporero. Se proyecta que sostenga por lo menos cuatro (4) veces el peso provisto de personas y materiales.

Andamios Tubulares

Conjunto de tubos metálicos que sirven de pies derechos, puentes, ristras, traviesas, soporte, y unión de los distintos miembros.

Andamios colgantes

Llevan la plataforma de trabajo sobre unas vigas y cuerdas o cables sujetos a miembros a la estructura o apoyados en ella.

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Andamios Móviles o Rodantes

Son andamios metálicos tubulares montados sobre rodillos o ruedas.

Medios de Acceso

Pueden consistir en una escalera portátil, escalera fija, una rampa, o un pasillo.

11.4 Procedimiento

11.4.1 Inspección Preliminar

Solo personal certificado inspeccionará y supervisará la instalación de los Andamios. Se utilizará como guía la norma aplicable estipulada por OSHA, información y guías provistas por el fabricante del tipo de andamio en particular.

Las áreas principales de inspección serán:

11.4.1(a) Antes de empezar a ensamblar el andamio, se deberá inspeccionar todos los componentes. De encontrar daños o defectos se informará de inmediato al Personal de Seguridad y Salud Ocupacional.

11.4.1(b) Materiales severamente corroídos deberán ser inspeccionados a cabalidad y limpiados antes de la aprobación para su uso.

11.4.1(c) Rectitud y verticalidad de los elementos. Todo el acero del andamio, deberá estar recto y libre de dobleces, fallos o mellas.

11.4.1(d) Los andamios deberán ser cotejados de soldaduras antes de su uso, y no se usará cualquier pieza del equipo que muestre daños en las soldaduras.

11.4.1(e) Se revisará el buen funcionamiento de los aparatos de fijación.

11.4.1(f) Se cotejará los frenos en las rueda de los andamios.

11.4.1(g) Se cotejará los frenos en las ruedas de los andamios.

11.4.1(h) Los tablones no deberán tener divisiones, cortes de sierra, grietas o nudos sueltos.

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11.4.1(i) Los componentes deberán encajar exactamente asegurando un ensamblaje adecuado y de calidad.

11.4.1(j) Se requerirán placas especiales en base a cuando los andamios tengan que ser levantados sobre un terreno suave.

11.4.1(k) No se deberá apoyar el andamio sobre cajas, bloques o cualquier material que pueda ser aplastado o derrumbado bajo el peso del andamio.

11.4.1(l) Las abrazaderas cruzadas serán lo suficientemente largas, de tal manera que cuadren los conectores verticales queden alineados automáticamente, logrando que el andamio se mantenga aplomado y rígido.

11.4.1(m) La altura de un andamio estacionado no excederá cuatro veces su base a menos que esté amarrado o retenido de alguna forma. Si se requiere de mayor altura, se deberá utilizar refuerzos que se extiendan mas allá de la base para estabilizarla.

11.4.2 Reglas para el montaje, desmontaje y utilización de andamios

11.4.2(a) Las reglas de seguridad de los andamios se colocaran en un lugar visible.

11.4.2(b) Los componentes del andamio serán inspeccionados previo a su uso. No se utilizará equipo en mal estado.

11.4.2(c) Los andamios montados serán inspeccionados diariamente para cerciorarse que son seguros para su uso.

11.4.2(d) Se usarán tornillos de ajuste para nivelación, en vez de uñas.

11.4.2(e) Los andamios se aplomarán y nivelarán durante su erección, de modo que ajusten los codales sin forzarlos.

11.4.2(g) Los travesaños se afianzarán correctamente.

11.4.2(h) El acceso a las torres de los andamios se impedirán con tirantes u otros medios.

11.4.2(i) Se deberá tener precaución cuando se trabaja con líneas eléctricas.

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11.4.2(j) No se emplearan escaleras o dispositivos provisionales en los alto de los andamios para aumentar su altura.

11.4.2(k) No se sobrecargarán los andamios.

11.4.2(l) Para construir la plataforma con tablones, se utilizará solamente madera inspeccionada y de calidad aprobada.

11.4.2(m) Los extremos no soportados de los tablones no deberán extenderse mas allá de los soportes.

11.4.2(n) Los tablones serán afianzados a la estructura del andamio, de ser necesario.

11.4.2(o) Se emplearán o instalarán los accesorios de los andamios de acuerdo a los procedimientos recomendados por el fabricante

11.4.2(p) No se tratará de desplazar un andamio móvil sin suficiente ayuda. Se vigilarán los posibles agujeros en el piso y las obstrucciones.

11.4.2(q) La altura de la plataforma de trabajo no excederá cuatro (4) veces la dimensión menor de la base, a menos que esté atirantada o estabilizada de alguna otra forma.

11.4.3 **Protección contra caídas**

11.4.3(a) Todas las plataformas de trabajo elevadas (más de diez pies del nivel del piso) se protegerán en todos sus lados expuestos.

11.4.3(b) La protección constará de pasamanos, baranda intermedia y tabla de rodapié.

11.4.3(c) Cuando los andamios se coloquen sobre sitios de paso o áreas de trabajo, el espacio entre la baranda intermedia y la tabla de rodapié se cubrirá con una rejilla metálica.

11.4.3(d) En andamios colgantes, es obligatorio el uso de arnés completo con un cable unido a una estructura de sostén que no sea el andamios.

11.4.3(e) Si se utilizan cuerdas de seguridad verticales, éstas deberán anclarse a un punto independiente del andamio, y evitar que rocen contra bordes afilados o superficies abrasivas.

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11.4.4 **Recomendación de seguridad del fabricante**

Para garantizar la seguridad y el servicio se observan las siguientes precauciones generales relacionadas al cuido y uso de andamios de madera.

11.4.4(a) **Andamios Fijos**

11.4.4(a)(1) La base y/o anclajes de los andamios será firme, rígida y capaz de sostener las cargas máximas previstas sin que hayan asentamientos y movimientos. Objetos inestables como barriles, cajas, ladrillos o bloques de hormigón no serán utilizados para apoyar andamios o tablones.

11.4.4(a)(2) Los andamios y todos sus componentes serán capaces de sostener sin fallar al menos cuatro veces la carga máxima provista.

11.4.4(a)(3) Los andamios serán mantenidos en una condición segura en todo momento de acuerdo con las recomendaciones del fabricante. Los andamios fijos no serán alterados o movidos horizontalmente mientras están en uso u ocupados.

11.4.4(a)(4) Cualquier andamio defectuoso o debilitado de cualquier manera será inmediatamente llevado para reparación y no será utilizado hasta estar completamente reparado.

11.4.4(a)(5) Los andamios no serán sometidos a cargas en exceso a la carga de trabajo para la cual ha sido diseñado.

11.4.4(a)(6) Toda pieza de madera que soporta la carga en una estructura de andamio tendrá un grado de madera de construcción mínimo de 1500 f. (Grado de Esfuerzo)

11.4.4(a)(7) Los clavos o tornillos utilizados para la construcción de andamios serán del tamaño y cantidad adecuado en cada conexión para que tenga la resistencia de diseño del

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andamio. Los clavos utilizados se clavaran completamente, sin que haya extremos.

11.4.4(a)(8) Todo los tablones o plataformas serán solapadas (mínimo 12 pulgadas) y asegurados contra movimientos.

11.4.4(a)(9) Se utilizarán andamios con acceso o se proveerá acceso seguro equivalente.

11.4.4(a)(10) Los tablones se extenderán de sus soportes finales, no menos de 6 pulgadas y no más de 18 pulgadas.

11.4.4(a)(11) Las patas o elementos verticales de los andamios estarán completamente vertical y seguras y rígidamente apuntados para prevenir inclinaciones, desviaciones o movimientos.

11.4.4(a)(12) Todo material siendo levantado a andamios deberá tener un cable de maniobra.

11.4.4(a)(13) Se proveerá protección superior a los trabajadores en andamios expuestos a cualquier peligro sobre ellos.

11.4.4(a)(14) No se permitirá acumular herramientas, materiales y escombros en cantidades que representen un peligro en el andamio.

11.4.4(a)(15) Solamente se utilizará soga tratada o de fibra protegida cerca de cualquier área de trabajo en el cual se utilicen sustancias químicas o corrosivas.

11.4.4(a)(16) Cables o sogas de fibras utilizadas en andamios suspendidos serán capaces de sostener al menos seis voces la carga proyectada.

11.4.4(a)(17) El uso de andamios serán de orilla o apoyados no será permitido en esta Compañía.

11.4.4(a)(18) Los andamios serán apoyados y asegurados a estructuras permanentes, mediante el uso de

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tornillos de anclaje, u otro método equivalente.

11.4.4(a)(19) Se tomarán precauciones especiales para proteger todos los elementos de los andamios incluyendo los cables, cuando se esté utilizando cualquier proceso que genera calor.

11.4.4(b) **Andamios Movibles**

11.4.4(b)(1) Las plataformas y andamios serán capaces de sostener las cargas de diseño bajo cualquier circunstancia dependiendo las condiciones de su uso.

11.4.4(b)(2) La carga de diseño de todos los andamios será calculada en base de los siguiente:

Liviano: Diseñado y construido para sostener cargas de trabajo de 25 libras por pie cuadrado.

Mediano: Diseñado y construido para sostener cargas de trabajo de 50 libras por pie cuadrado.

Posado: Diseñado y construido para sostener cargas de trabajo de 75 libras por pie cuadrado.

11.4.4(b)(3) Los clavos, tornillos u otros anclajes utilizados en la construcción de escaleras, andamios y torres serán del tamaño y cantidad adecuados para desarrollar la resistencia de diseño de la unidad en cada una de las conexiones. Los clavos serán enterrados completamente. Se sacarán todos los clavos de toda pieza de madera que sea desmantelada.

11.4.4(b)(4) Toda superficie expuesta tiene que estar libre de esquinas afiladas y cualquier otro peligro.

11.4.4(b)(5) La altura máxima del nivel de trabajo no excederá cuatro veces la dimensión mínima de la base de cualquier andamio movible. Cuando esto requisito no pueda ser cumplido por la unidades movibles básicas, se utilizará una armadura lateral adecuada para

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alcanzar esta dimensión os e tomarán las medidas necesarias para reforzar la unidad contra la inclinación o el vuelco.

11.4.4(b)(6) El ancho de la plataforma para cualquier nivel de trabajo no será menor de 20 pulgadas para andamios movibles. Los escalones tendrán un ancho de 16 pulgadas.

11.4.4(b)(7) La estructura de soporte para el nivel de trabajo estará reforzada rígidamente, usando refuerzos cruzados o diagonales adecuados con plataformas rígidas en cada nivel de trabajo.

11.4.4(b)(8) La plataforma de cada nivel de trabajo del andamio será de madera, aluminio o paneles "plywood, acero o metal expandido para el ancho total del andamio, excepto para las aberturas necesarias. Las plataformas de trabajo deberán estar aseguradas en su sitio. Todos los tablones deberán tener un espesor nominal de 2 pulgadas.

11.4.4(b)(9) Todos los niveles de trabajo del andamio de 10 pies o más sobre el nivel del piso o terreno tendrán una tabla de borde estándar de un espesor de cuatro pulgadas.

11.4.4(b)(10) En todos los niveles de trabajo de 10 pies o más sobre el nivel del piso o terreno tendrán una baranda de madera de 2 por 4 pulgadas nominales o su equivalente, a no menos de 36 pulgadas ni más de 42 pulgadas de alto con una baranda intermedia de madera de 1 por 4 pulgadas cuando así se requiera, o su equivalente.

11.4.4(b)(11) Las ruedas o gomas se los andamios serán inspeccionadas para asegurar que están provistas con la resistencia y dimensiones adecuadas para soportar cuatro voces la capacidad de carga de diseño.

11.4.4(b)(12) Todas las ruedas del andamio serán inspeccionadas para asegurarse de que están

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provistas con un eslabón giratorio que sirva de seguro para prevenir el movimiento.

11.4.4(b)(13) cuando se requiere ajustar el novel de la plataforma elevada, un gato de rosca u otro equipo apto debe ser utilizado para ajustar la altura.

11.4.4(b)(14) No se lo permitirá a los empleados estar montados en el andamio mientras esto es relocalizado.

11.4.4(b)(15) Los tornillos de ajuste no deberán extenderse más de 12 pulgadas.

11.4.4(b)(16) Antes de mover la plataforma será necesario asegurar todo el equipo y el material.

11.4.4(b)(17) Las gomas o ruedas deberán tener un aparato de seguro o freno que esté en buen funcionamiento.

11.4.4(b)(18) Estar consciente de las obstrucciones elevadas mientras se esté moviendo el andamio.

11.4.4(b)(19) Nunca se pasará por encima a cables electrónicos.

11.4.4(b)(20) Nunca se halará el andamio desde el tope, siempre se empujará en el nivel de la base.

11.4.4(b)(21) Se trabajará únicamente en el área de la plataforma, el trabajo nunca se extenderá después de la baranda.

11.4.5 **Inspección previa a cada turno**

11.4.5(a) Una voz colocado el andamio, se inspeccionará la estructura entera en busca de cualquier defecto y se verificará que todas las conexiones estén seguras. Esta inspección deberá repetirse antes de cada turno.

11.4.5(b) Para este tipo de inspección se deberán tomar en consideración los siguientes puntos:

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11.4.4(b)(1) Las patas y tablones de apoyo deberán estar firmes y bien colocadas.

11.4.4(b)(2) Los tirantes serán inspeccionados para asegurar que la estructura está en ángulo recto.

11.4.4(b)(3) todas las conexiones deberán estar aseguradas.

11.4.4(b)(4) Se verificará la altura, colocación, y construcción de las varillas de protección.

11.4.4(b)(5) Se comprobará que no hay rajaduras, grietas en las plataformas.

11.4.4(b)(6) Se cotejarán los soportes de los elementos verticales de cada armazón.

11.4.4(b)(7) Los andamios serán protegidos o cubiertos de cualquier posible erosión debido a la lluvia.

11.4.4(b)(8) Las placas, base o tornillos de ajuste estarán en contacto firme con los soportes.

11.4.4(b)(9) Los armazones no deberán tener ninguna desviación vertical, ni en ninguna otra dirección.

11.4.4(b)(10) Los refuerzos cruzados deberán estar en perfectas condiciones.

11.4.4(b)(11) Todas las barandas deberán estar en su sitio.

11.4.6 **Desmantelamiento de Andamios**

Solamente personal adiestrado y autorizado por la compañía supervisará el Desmantelamiento de andamios. Se utilizarán las regulaciones pertinentes de OSHA o información y guías provistas por el fabricante del tipo de andamios en particular a desmantelarse. Aplica lo siguiente:

11.4.6(a) Se seguián las instrucciones del fabricante al desmantelar el andamio.

11.4.6(b) Consideraciones previas de relocalización de andamios serán tomadas en cuenta durante el proceso de

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desmantelamiento.

11.4.6(c) El desmantelamiento será supervisado por personal competente.

11.4.6(d) Cada componente deberá y será inspeccionado visualmente después de su uso.

11.4.6(e) Materiales defectuosos o inservibles no se almacenarán con materiales en buen estado.

11.4.6(f) No se arrojarán bruscamente los materiales de los andamios para evitar daños.

11.4.7 **Adiestramientos**

Un programa de adiestramientos será provisto a todos los empleados que van a estar utilizando andamiaje en el transcurso de sus deberes. El adiestramiento será ofrecido antes de la persona ser asignada al trabajo. HRC proveerá adiestramiento para garantizar que el propósito, función y uso adecuado del andamiaje fue entendido por los empleados.

11.4.7(a) **Adiestramiento Inicial**

Esta instrucción de estándar práctico será provista y leída por todos los empleados que están recibiendo el adiestramiento. El adiestramiento incluirá como mínimo lo siguiente:

11.4.7(a)(1) Todos los tipos de andamios utilizados por HRC.

11.4.7(a)(2) Reconocimiento de posibles peligros de caídas asociadas con el trabajo a ser realizado y su localización.

11.4.7(a)(3) Determinación de carga y requisitos de equilibrio.

11.4.7(a)(4) Precauciones de seguridad en el uso de andamios.

11.4.7(a)(5) Todos los demás empleados cuyas operaciones de trabajo se llevaran a cabo en el área donde el andamiaje podría ser utilizado, serán instruidos sobre los peligros asociados a sus tareas.

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11.4.7(a)(6) Mantenimiento de equipo y requerimientos de inspección.

11.4.7(a)(7) Capacidad y limitaciones del equipo.

11.4.7(a)(8) Certificación: HRC certificará que se ha dado adiestramiento a los empleados y se le ha dado el seguimiento necesario. La certificación contendrá el nombre de cada empleado y a fecha del adiestramiento. Los adiestramientos serán ofrecidos por personal competente.

11.4.7(b) **Adiestramiento de seguimiento**

Esta instrucción de estándar práctico será provista y leída por todos los empleados que reciban el entrenamiento de seguimiento. El contenido de este adiestramiento será idéntico al del adiestramiento inicial. El adiestramiento de seguimiento será conducido siempre que sea necesario o cuando se cumplan las siguientes condiciones, lo que ocurra primero:

11.4.7(b)(1) Siempre que antes de que haya cualquier cambio en las tareas asignadas, un cambio en el tipo de andamio o cuando cualquier peligro adicional se añada al ambiente de trabajo que afecte el programa de seguridad.

11.4.7(b)(2) Cuando inspecciones periódicas revelen a siempre que HRC tenga cualquier razón para creer que el conocimiento de los empleados no sea el mes adecuado a el uso de andamios no sea el apropiado.

11.4.7(b)(3) Siempre que fallen los procedimientos de seguridad para andamios.

11.4.7(b)(4) el adiestramiento adicional restablecerá la capacidad de los empleados o introducirá métodos y procedimientos nuevos o revisados según sean necesarios.

11.4.7(b)(5) HRC certificará que se ha dado adiestramiento a los empleados y se le ha dado el seguimiento necesario. La

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certificación contendrá el nombre de cada empleado y la fecha del adiestramiento.

SECCION 12
ESCALERAS FIJAS O PORTATILES

12.1 Propósito

Establecer las normas y procedimientos a seguir para la utilización adecuada de escaleras según las normas de OSHA.

12.2 Responsabilidades

12.2.1 **Personal de Seguridad y Salud Ocupacional**

Será responsabilidad del Personal de Seguridad adiestrar al personal y velar por el cumplimiento de este procedimiento.

12.2.2 **Supervisores**

Será responsabilidad de los supervisores al hacer cumplir este procedimiento.

12.2.3 **Empleados de Operaciones**

Será responsabilidad de los empleados seguir este procedimiento.

12.3 Tipos de escaleras

12.3.1 Tipo IA Industrial

Para carga posada con capacidad de peso máximo de 300 libras.

12.3.2 Tipo I Industrial

Para carga posada con capacidad de podo máximo de 250 libras.

12.3.3 Tipo II Comercial

Media carga con capacidad de peso máximo de 200 libras.

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12.4 Procedimiento

Las escaleras presentan una serie de peligros únicos. Sin embargo, las escaleras no tienen que ser peligrosas si se siguen recomendaciones:

12.4.1 **Reglas generales**

12.4.1(a) Se deberá conseguir y usar el equipo adecuado para efectuar el trabajo.

12.4.1(b) Se deberá proveer una escalera fija o una escala en todo punto de acceso de personas, donde exista una diferencia en elevación de 19 pulgadas o más y donde no se haya provisto una rampa, un pasillo, un terraplén a un monta personal.

12.4.1(c) Cuando haya que llevar a cabo un trabajo donde se tenga un solo punto de acceso y el mismo haya que interrumpirlo, deberá proveerse un segundo punto de acceso antes de interrumpir el primero.

12.4.1(d) Cuando el edificio o la estructura tenga dos o más puntos de acceso deberán mantenerse libres permitiendo el paso seguro de los empleados.

12.4.1(e) HRC deberá proveer e instalar todos los sistemas de protección contra caídas para escaleras y escalas, que sean requeridas antes de que los empleados comiencen a utilizar la misma.

12.4.2 **Requisitos aplicables a escaleras fijas**

12.4.2(a) Toda escalera que no sea parte permanente de un edificio o estructura dando se vaya a llevar trabajo de construcción deberá constar con descansos ("landings") de no menos de 30 pulgadas de largo en la dirección de viaje y por lo menos de 22 pulgadas de ancho, cada 12 pies o menos de distancia vertical.

12.4.2(b) La escalera deberá tener un ángulo entre 30° y 500 con la horizontal.

12.4.2(c) El alto y la profundidad de cada escalón de un mismo vuelo en una escalera, deberán ser constantes a través de todo el vuelo pudiéndose permitir hasta ¼ de variación.

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12.4.2(d) Ninguna puerta podrá abrir directamente hacia una escalera a menos que se provea una plataforma donde el viraje de la puerta no reduzca el ancho efectivo de la plataforma a menos de 20 pulgadas.

12.4.2(e) Cualquier condición resbalosa de una escalera deberá eliminarse antes de comenzar a usar la misma.

12.4.2(f) Este terminantemente prohibido usar el esqueleto de una escalera para subir o bajar a menos que sea durante su construcción, o que se le provean escalones y descansos temporeras lo suficientemente largos que cubran el escalón o el descanso y de una consistencia que soporte los esfuerzos a que van a ser sometidos.

12.4.3 **Requisitos aplicables a barandas para escaleras**

12.4.3(a) Cualquier escalera con cuatro contrahuellas o más, o con una altura vertical mayor de 30 pulgadas lo que sea menor deberá estar provista por lo menos con unos pasamanos y una baranda en cada lado o barde abierto.

12.4.3(b) Los pasamanos o las barandas para escaleras, deberán tener una altura no menor de 36 pulgadas ni mayor de 37 pulgadas medidas desde la superficie superior de la baranda hasta la superficie del escalón en línea con la contrahuella en la punta del frente del escalón.

12.4.3(c) Deberá proveerse una pieza intermedia, una pantalla (screen), una malla (mesh) o miembros intermedios verticales (balaustres), entre la pieza superior de la baranda y los escalones de la escalera.

12.4.3(d) Cuando se provea una pieza intermedia la misma deberá estar localizada entre la pieza superior y el escalón.

12.4.3(e) Cuando se usan balaustres u otra estructura como miembros verticales intermedios, los mismos no podrán tener una separación entre si mismos mayor de 19 pulgadas.

12.4.3(f) Los pasamanos y las pizas superiores de las barandas deberán ser capaces de soportar sin romperse una fuerza de por lo menos 200 lb. aplicadas en el borde superior hacia arriba o hacia abajo en cualquier punto de la pieza superior.

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12.4.3(g) Las superficies de los pasamanos o de la baranda que se usen como pasamanos deberán estar lo suficientemente liso para evitar lesiones al empleado por puyazos o laceraciones.

12.4.3(h) Las pasamanos deberán proveer un agarre seguro.

12.4.3(i) Los pasamanos que no sean parte permanente de un edificio o estructura que se esté construyendo deberán tener un espacio libre mínima de 3 pulgadas. entre los pasamanos y la pared, sistema de baranda y otros objetos.

12.4.3(j) Los lados o bordes sin protección de los descansos de una escalera deberán estar previstas de un sistema de baranda (pieza superior a 42 pulgadas, pieza intermedia a 21 pulgadas y distancia entre los postes a 8 pies y una tabla de 4 pulgadas de alto).

12.4.4 **Requisitos aplicables a escaleras portátiles**

12.4.4(a) La base de la escalera portátil se colocará a un pie hacia fuera por cada cuatro (4) pies de altura de la escalera.

12.4.4(b) Para evitar que la escalera portátil resbale, se sujetará la base firmemente, o se amarrará la escalera de forma segura.

12.4.4(c) Al trabajar sobre el techo, la escalera portátil deberá estar extendida tres pisos por encima del punto de contacto del edificio.

12.4.4(d) Nunca se deberán usar los últimos tres peldaños.

12.4.4(e) Cuando haya mangueras o cables que están cerca de la base de deberá asegurar de que no interfieran con el paso hacia la escalera.

12.4.4(f) Si está planeando trabajar con una escalera que va a estar frente a una puerta, cierre la puerta con el seguro, a manténgala abierta colocando una señalización por ambos lados.

12.4.4(g) Siempre mire hacia la escalera cuando la esté utilizando.

12.4.4(h) Utilice zapatos con suela antideslizante.

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12.4.4(i) Mantenga siempre tres puntos de contacto (una mano y dos pies).

12.4.4(j) Nunca mueva la escalera si alguien está en ella.

12.4.4(k) Nunca usar una escalera de metal cerca de líneas eléctricas, equipo o cajas de interruptores.

12.4.4(l) Se deberá tener presente en todo momento el uso del equipo de protección de caídas.

12.4.4(m) nunca colocará la escalera sobre bases inestables como barriles, la caja de un camión, bloques o superficies irregulares.

12.5 Inspección

Una persona competente examinará la escalera para identificar algún defecto visible. Se considerarán los siguientes puntos:

12.5.1 Se inspeccionará la escalera previa a cada uso.

12.5.2 Si la escalera estuviera dañada se colocará un rótulo de "NO USAR" y se removerá del área de trabajo hasta que sea reparada o descartada.

12.5.3 Se verificará que las piezas de la escalera no estén agrietas, rajadas o corroídas.

12.5.4 Se revisarán todas la conexiones entre los travesaños y los escalones.

12.5.5 En las escaleras de extensión, se revisará que la cuerda y polea estén en buenas condiciones y que la cuerda no este desgastada.

12.5.6 Se asegurará que los travesaños, los escalones y otras partes de la escalera no tengan aceite, grasa ni ningún otro material.

SECCION 13
HERRAMIENTAS DE MANO Y PORTATILES

13.1 Propósito

Evaluar e identificar las herramientas adecuadas a cada tarea, el manejo correcto, sus deficiencias, los peligros potenciales asociados, y establecer los procedimientos apropiados para proteger a los empleados.

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13.2 Responsabilidades

13.2.1 Personal de Seguridad y Salud Ocupacional

Será responsabilidad del Personal de Seguridad adiestrar personal, desarrollar instrucciones detalladas y específicas cubriendo cada uno de los elementos básicos de este programa, y velar por el cumplimiento de este.

13.2.2 Supervisores

Será responsabilidad de los supervisores el hacer cumplir este procedimiento.

13.2.3 Empleados de Operaciones

Será responsabilidad de los empleados seguir este procedimiento.

13.3 Procedimiento

13.3.1 Selección de herramientas, evaluación y condición

El mayor peligro expuesto para las herramientas usualmente es causado por el mal uso y mantenimiento inadecuado. La selección de herramientas será considerada una prioridad al momento de establecer los arreglos para comenzar un trabajo. Antes de seleccionar una herramienta se considerara lo siguiente:

13.3.1(a) Las herramientas deberán ser las adecuadas para el tipo de trabajo a realizarse.

13.3.1(b) Los protectores deberán estar instalados apropiadamente y en buenas condiciones.

13.3.1(c) Los métodos de conductor a tierra deberán ser suficientes cuando se va a trabajar en áreas húmedas.

13.3.1(d) Las herramientas que creen chispas o calor, deberán estar alejadas de sustancias flaméales.

13.3.1(e) Se deberá tener mucha precaución con las herramientas que puedan causar cortaduras.

13.3.1(f) Las herramientas deberán estar limpias antes de usarse.

13.3.1(g) Se verificará que las herramientas estén afiladas.

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13.3.1(h) Las herramientas no se usarán en superficies sucias o mojadas.

13.3.1(i) Las herramientas deberán ser guardadas apropiadamente cuando no estén en uso.

13.3.1(j) Deberá haber espacio suficiente alrededor de la herramienta para realizar el tipo de trabajo designado.

13.3.2 **Precauciones al utilizar las herramientas de potencia**

Las herramientas de potencia pueden ser peligrosas cuando son usadas Inadecuadamente. Para prevenir daños se deberán seguir las siguientes precauciones:

13.3.2(a) Las herramientas de potencia deberán ser operadas dentro de las limitaciones de diseñó.

13.3.2(b) Durante la operación de utilizará protección para los ojos, se utilizará guantes y zapatos de seguridad.

13.3.2(c) La operación del uso de herramientas deberá llevarse a cabo en lugares bien iluminados.

13.3.2(d) Las herramientas no deberá ser transportada por cables, cuerdas o mangueras.

13.3.2(e) Los cables de conexión de las herramientas no deberán ser arrancados de los receptáculo.

13.3.2(f) Los cables de conexión deberán mantenerse alejados del calor, aceites y bordes afilados o cualquier otra fuente que pueda afectar la herramienta.

13.3.2(g) Las herramientas deberán ser desconectadas cuando no estén en uso y cuando se cambien sus accesorios tales como las hojas, taladros y los cortadores.

13.3.2(h) El observador deberá mantenerse a una distancia segura del área de trabajo.

13.3.2(i) Los empleados no deberán mover de un sitio a otro una herramienta que esté conectada a un receptáculo.

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13.3.2(j) Las herramientas deberán mantenerse limpias y de acuerdo a las guías de los fabricantes.

13.3.2(k) Las herramientas tendrán los calzados apropiados y el área de trabajo estará limpia.

13.3.2(l) El empleado tendrá la vestimenta de seguridad apropiada, acorde con el tipo de herramienta que esté usando.

13.3.2(m) De haber una herramienta dañada, ésta deberá ser retirada del área de trabajo y rotularse "No se use". Estas herramientas deberán reportarse y ser devueltas para repararlas o reemplazarlas.

13.3.2(n) Para el uso de las herramientas portátiles de potencia eléctrica se seguirán los requerimientos del Programa de Seguridad Eléctrica relacionados a las prácticas en el trabajo y 29 CFR 1910.331-335.

13.2.2(o) El almacén de las herramientas deberá estar localizado en un lugar seguro y seco.

13.2.2(p) El aire comprimido no se usará para propósitos de limpieza excepto cuando se reduce a menos de 30 pulg. Se deberá utilizar un equipo de protección personal.

13.3.3 **Herramientas manuales de corte o navajas**

13.3.3(a) Los empleados que utilizan navajas y otras herramientas de corte deberán recibir orientación sobre el manejo adecuado.

13.3.3(b) Será conducido un adiestramiento especifico sobre el tipo de trabajo que requiera la utilización de herramientas de corte y navajas. El adiestramiento incluirá:

13.3.3(b)(1) Técnicas de corte

13.3.3(b)(2) Cuidado y Mantenimiento de la cuchilla o navaja

13.3.3(b)(3) Técnicas para afilar adecuadamente la navaja.

13.3.3(b)(4) El peligro al sujetar la navaja de forma incorrecta

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13.3.3(b)(5) Los tipos de navajas asociados con los deberes individuales de trabajo.

13.3.3(b)(6) El mantenimiento de los filos de corte a los lados de las navajas y otros implementos de corte.

13.3.3(c) **Las técnicas seguras de corte incluyen:**

13.3.3(c)(1) Asociar el tipo de cuchillo con la tarea.

13.3.3(c)(2) Mantener las hojas bien afiladas

13.3.3(c)(3) Siempre cortar a cierta distancia del cuerpo.

13.3.3(c)(4) Usar navajas con una textura de agarre para evitar el que se resbale o desprenda de la mano.

13.3.3(c)(5) El uso de mangos para distribuir la presión sobre la palma de las manos.

13.3.3(c)(6) Usar navaja o cuchillo con hojas desechables cuando sea posible.

13.3.3(c)(7) Estará prohibido usar el cuchillo como un destornillador

13.3.3(c)(8) Nunca deberán trabajar dos personas sobre el mismo objeto y que uno esté usando el cuchillo.

13.3.3(c)(9) Los cuchillos no se guardarán abiertos en los cajeros.

13.3.3(c)(10) Los cuchillos se guardarán separados del resto de las herramientas, y guardarlos con los filos hacia abajo dentro de un estuche individual.

13.3.3(c)(11) Nunca deberá dejar el cuchillo accesible en un área que no sea que requiere el uso de este.

13.3.3(c)(12) El envaine del cinturón estará siempre sobre la cadera con el filo del cuchillo hacia abajo.

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cotejadas para legibilidad.

13.5.7 Personal de Seguridad deberá certificar que el adiestramiento del empleado a sido llevado a cabo y que está vigente. La certificación deberá de tener el nombre del empleado y la fecha del adiestramiento.

SECCION 14
ELECTRICIDAD

14.1 Propósito

Establecer medidas preventivas y de control cuando se trabaje con o cerca de sistemas eléctricos.

14.2 Responsabilidades

14.2.1 Personal de Seguridad y Salud Ocupacional

Será responsabilidad del Personal de Seguridad adiestrar al personal, desarrollar instrucciones detalladas y especificas cubriendo cada uno de los elementos básicos de este programa, y velar por el cumplimiento de este.

14.2.2 Supervisores

Será responsabilidad de los supervisores el hacer cumplir este procedimiento.

14.2.3 Empleados de Operaciones

Será responsabilidad de los empleados seguir este procedimiento.

14.3 Definiciones

Electricidad

La electricidad es definida como el flujo de los electrones a través de un conductor.

Conductor

Un material que contiene muchos electrones libres y es capaz de llevar una corriente eléctrica. Algunos de estos son los metales, el agua, el oro, el aluminio y el cobre. Los conductores pobres son la tierra, el concreto y el cuerpo humano.

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Insuladores

Los materiales que contienen relativamente pocos electrones libres. Algunos de estos son la madera, goma, vidrio y mica.

Voltaje

Los electrones fluyen a través de un conductor porque una fuerza o presión llamada fuerza electro-motiva es ejercida. Esta unidad es el voltaje.

Corriente

El movimiento continúo de electrones pasando de un punto dado. Esta es medida en amperes.

Resistencia

El movimiento de electrones a lo largo de un conductor que se encuentra con algo de oposición.

14.4 Procedimiento

14.4.1 Requerimientos

14.1.1(a) La norma de Electricidad dirige los requerimientos en seguridad necesarias para salvaguardar la seguridad de empleados envueltos en construcción.

14.1.1(b) HRC se asegurará que el equipo eléctrico está libre de riesgos reconocidos que pueden causar muerte o daño físico serio al empleado.

14.1.1(c) La instalación y uso de equipo certificado o etiquetado estará acorde con las recomendaciones del fabricante.

14.1.1(d) El equipo eléctrico no se utilizará a menos que el nombre del manufacturero, símbolo u otra marca descriptiva, voltaje, corriente, "watts" este visible. Adicional, deberá ser suficientemente durable para el tipo de ambiente envuelto.

14.1.1(e) En espacios de trabajo con equipo eléctrico de 600 V nominales el espacio de trabajo no deberá ser menor de 30 pulgadas de ancho en la parte delantera del equipo eléctrico.

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14.4.1(f) Alrededor de espacios de trabajo con equipo eléctrico se deberá cumplir con lo siguiente:

14.4.1(f)(1) La distancia deberá ser medida de las partes vivas si estas estén expuestas o del frente de la cubierta si las partes vivas estén encerrradas.

14.4.1(f)(2) Las paredes construidas de concreto, ladrillo o loza son consideradas que están conectadas a tierra.

14.4.1(f)(3) Al menos una entrada deberá ser provista para dar acceso al espacio de trabajo en equipo eléctrico.

14.4.2 **Protección a empleados**

14.4.2(a) No se permitirá a ningún empleado trabajar en la proximidad de cualquier parte de circuitos eléctricos, a menos que el empleados esté protegido contra sacudidas eléctricas por desenergización del circuito y contacto a tierra.

14.4.2(b) En áreas donde la localización de líneas eléctricas bajo tierra sea desconocida, y los empleados estén utilizando martilladores y otras herramientas de mano estarán protegidos por guantes insulados.

14.4.2(c) Se desplegarán y mantendrán rótulos apropiados en el área donde se encuentran los circuitos.

14.4.2(d) Los empleados deberán concederle la localización de las líneas, el riesgo envuelto y las medidas de protección a ser tomadas antes de comenzar el trabajo.

14.4.2(e) Los controles de energía se desactivarán durante el curso del trabajo por medio de cerradura y etiquetado.

14.4.3 **Factores que afectan la resistencia**

14.4.3(a) Tamaño del cable: Mientras más pequeño el cable más grande la resistencia.

14.4.3(b) Longitud del cable: Mientras más largo más grande la resistencia.

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14.4.3(c) Temperatura: En los metales donde la temperatura es más alta la resistencia es más grande.

14.4.3(d) Tipo de Material: Decreciendo en resistencia:

14.4.3(d)(1) Hierro

14.4.3(d)(2) Aluminio

14.4.3(d)(3) Cobre

14.4.3(d)(4) Plata

14.4.4 **Riesgos de Electricidad**

Los Principales riesgos son:

14.4.4(a) Sacudida eléctrica "shock": Ocurre cuando el cuerpo humano se convierte en un paso por el cual los electrones pueden fluir. El efecto resultante en el cuerpo puede ser directo o indirecto.

14.4.4(a)(1) **Directo:** Cuando una corriente de menos de 30 mA fluye a través del cuerpo humano y puede resultar en muerte.

14.4.4(a)(2) **Indirecto:** Cuando la corriente pasa a través del cuerpo humano pero no causa lesión notable, pero la reacción humana puede resultar en caída de una escalera o andamio.

14.4.4(b) **Quemaduras**

14.4.4(c) Estallido de arco: Esto ocurre cuando altas corrientes de amperajes son arqueadas a través del aire. Los riesgos principales con el estallido de arco serán radicación termal, y onda de presión.

14.4.4(d) **Explosión**

14.4.4(e) **Fuego**

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14.4.5 **Resguardo de partes vivas**

Las partes vivas del equipo eléctrico operando a 50 voltios o mas deberán ser resguardadas contra contacto accidental, por gabinetes u otras formas de encerramiento.

14.4.6 **Requerimientos de 600 voltios nominales o más**

14.4.6(a) Sobre 600 voltios nominales cumplen con los requerimientos antes expuestos.

14.4.6(b) El espacio de trabajo en paneles de controles o centro de control de motores deberán tener un espacio no menos de 3 pies.

14.4.6(c) Las instalaciones de estos equipos deberán estar protegidas para controlar el acceso solamente a personal cualificado. La protección podrá ser una pared o verja con una altura no menor de 8 pies de alto.

14.4.6(d) En edificio deberá ser controlado por una puerta que se mantendrá cerrada o bajo observación de una persona cualificada todo el tiempo.

14.4.7 **Condiciones a tierra**

14.4.7(a) HRC usará interruptores de circuito a tierra o un programa de conductores a tierra.

14.4.7(b) Todos los receptáculos de 120 voltios, fase simple de 15 y 20 Amperes, los cuales no son parte del cableado permanente de un edificio o estructura y son usados por empleados, deberán tener un interruptor aprobado de conductor a tierra para protección del personal.

14.4.7(c) No se necesitará proteger con conductores los receptáculos de dos cables, fase simple portátil o generador en vehículo no más grande de 5kw donde los conductores del circuito del generador están insulados del armazón y todas las otras superficies están conectadas a tierra.

14.4.7(d) Cada extensión, receptáculo y cualquier otro equipo conectado será inspeccionado visualmente antes de usarlo cada día por deformaciones y defectos externos y por indicaciones de posible daño interno. De encontrar daño o

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desperfectos será removido inmediatamente del área de trabajo.

14.4.7(e) Se deberán desarrollar las siguientes pruebas: continuidad, colocación correcta de los cables, y el equipo conductor conectado en sus terminales correctos.

Estas pruebas deberán ser desarrolladas:

14.4.7(e)(1) Antes del primer uso

14.4.7(e)(2) Antes de que el equipo sea retornado a ser utilizado luego de reparado.

14.4.7(e)(3) Antes de que el equipo sea utilizado después de ocurrir un incidente razonablemente sospechoso como para causar daño.

14.4.7(e)(4) En intervalos de tiempo de un mes.

14.4.7(e)(5) En cable, extensiones y receptáculos que estén fijos y no estén expuestos a daño, las pruebas deberán ser sometidas en un periodo de tiempo que no exceda 6 meses.

14.4.8 **Gabinetes, cajas y conectores**

14.4.8(a) Conductores entrando a cajas, gabinetes o conectores deberán ser protegidos de abrasiones. Las aberturas por donde los conductores entran no usadas deberán ser cerradas efectivamente.

14.4.9 **Extensiones y cables**

14.4.9(a) Las extensiones y cables deberán ser adecuados para las condiciones de uso y localización.

14.4.9(b) Deberán utilizarse solamente en largo continuo si empalmar.

14.4.9(c) Las extensiones No. 12 de servicio arduo "hard service" o mayor pueden ser reparadas si el empalme retiene la insulación.

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14.4.10 **Deterioro del equipo por ambiente de trabajo**

14.4.10(a) El equipo que está en condiciones ambientales que propicien el deterioro, deberán ser protegidos o adquirir equipo de material apropiado para el ambiente.

14.4.10(b) **Agentes que deterioran el equipo son:**

14.4.10(b)(1) Localizaciones húmedas, expuestas a gases, vapores y/o líquidos.

14.410(b)(2) Exposición a altas temperaturas, el tiempo y corrosión.

SECCION 15
OPERACIONES DE DESPERDICIOS PELIGROSOS Y RESPUESTAS DE EMERGENCIA

15.1 Propósito

Establecer las normas para asegurar de que los empleados estén informados de los peligros de exposición a sustancias peligrosas en su área de trabajo.

15.2 Responsabilidades

15.2.1 Oficial de Seguridad y Salud Ocupacional

Será responsabilidad del Oficial de Seguridad y Salud Ocupacional ofrecer los adiestramientos requeridos y velar por el cumplimiento de las Normas de Seguridad estipuladas.

15.2.2 **Supervisores**

Será responsabilidad de los supervisores de ejecutar este procedimiento.

15.2.3 **Empleados de Operaciones**

Será responsabilidad de los empleados el seguir las reglas de este procedimiento.

15.3 Aplicación

Esta sección cubre las siguientes áreas:

15.3.1 Operaciones de limpieza requeridas que envuelven substancias peligrosas que sean conducidas en sitios no controlados de desperdicios peligrosos.

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15.3.2 Acciones correctivas que envuelven operaciones de limpieza en sitios cubiertos por la Ley de Conservación y Recuperación de Recursos (RCRA).

15.3.3 Operaciones que envuelven desperdicios peligrosos que sean conducidas en facilidades (TSD) de tratamiento, almacenado, y desecho.

15.3.4 Operaciones de respuesta de emergencia para escapes de sustancias peligrosas.

15.4 Definiciones

Operación limpieza

Operación donde sustancias peligrosas sean removidas, contenidas, incineradas, neutralizadas, estabilizadas, limpiadas o manejadas con la meta de hacer el sitio más seguro.

Descontaminación

Remoción de sustancias peligrosas de los empleados y de su equipo para excluir la ocurrencia de efectos adversos de salud previsibles.

HAZMAT

Grupo organizado de empleados, designados por el patrono, quienes se esperan realicen trabajo para manejar y controlar fugas o derrames de substancias peligrosas.

IDLH

Inmediatamente peligrosos a la vida o a la salud.

Respuesta de emergencia

Esfuerzo de respuesta por empleados fuera del área inmediata del suceso, que resulte o tenga la probabilidad del resultar en una emisión no controlada de una sustancia peligrosa.

Sustancia peligrosa

Cualquier sustancia cuya exposición resulte o pueda resultar en efectos adversos sobre la seguridad y la salud de los empleados.

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15.5 Programa de Seguridad y Salud

El programa de seguridad y salud de HRC incorpora los siguientes aspectos:

15.5.1 Se ofrecerá un repaso del adiestramiento anualmente.

15.6 Vigilancia Médica

15.6.1 Aplicará a todos los empleados que puedan estar expuestos a sustancias peligrosas, que no utilicen un respirador por treinta (30) días o más en un año, que experimenten síntomas de sobre exposición.

15.6.2 La frecuencia de examinación y consulta médica se llevarán a cabo antes de comenzar la tarea, una vez cada año, en la terminación del empleo, en la reasignación a un área, inmediatamente ante la notificación de un empleado de síntomas se sobre exposición.

15.6.3 Los servicios médicos serán libre de costo para el empleado.

15.7 Equipo de protección personal

El equipo de protección personal será elegido de acuerdo a los requisitos y características del lugar de trabajo.

15.7.1 **Nivel A**

Nivel más alto de protección de la piel, sistema respiratorio, y ojos. Esto incluye:

15.7.1(a) Respirador de cara completa con aire suplido con presión positiva (SCBA)

15.7.1(b) Traje protector de químicos encapsulado

15.7.1(c) Guantes externos e internos

15.7.1(d) Protección de pies resistentes a químicos

15.7.2 Nivel B

Nivel más alto de protección respiratoria con un nivel de protección de piel más
bajo. Esto incluye:

15.7.2(a) Respirador de cara completa con aire suplido con presión positiva (SCBA).

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15.7.2(b) Traje protector de químicos desechable

15.7.2(c) Guantes extremos e internos

15.7.2(d) Protección de pies resistentes a químicos

15.7.3 Nivel C

Cuando se conoce la concentración y tipo de sustancias presente en el aire. Este incluye:

15.7.3(a) Respirador de media mascara

15.7.3(b) Mamelucos

15.7.3(c) Guantes externos e internos

15.7.3(d) Zapatos de seguridad

15.7.4 Nivel D

Requiere mínima protección. Este requiere:

15.7.4(a) Mamelucos

15.7.4(b) Zapatos de seguridad

15.7.4(c) Gafas de seguridad

15.7.4(d) Capacete

15.7.4(e) Guantes

15.8 Monitoreo

15.8.1 Se monitoreará posibles niveles de sustancias contaminantes en la entrada inicial.

15.8.2 Se mantendrá una supervisión periódica cuando exista la posibilidad de una atmósfera flamable.

15.9 Manejo de contenedores

15.9.1 Toda sustancia peligrosa, suelo contaminado, líquidos y otros residuos serán manejados, transportados, etiquetados, y dispuestos según OSHA y EPA.

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15.9.2 Todo contenedor sin etiqueta se manejará como sustancia peligrosa hasta tanto sea identificado y rotulado correctamente.

15.9.3 Las operaciones serán coordinadas de modo que el contenedor se mueva lo menos posible.

15.9.4 Se requerirá un programa de control de derrames como parte del programa de seguridad y salud ocupacional.

15.9.5 Ningún empleado trabajará sobre los contenedores.

15.9.6 Se mantendrá una comunicación continua (radios portables, señales de mano, teléfonos) durante toda la operación.

15.9.7 Los contenedores serán identificados y etiquetados antes del envió.

15.10 Descontaminación

15.10.1El procedimiento de descontaminación será desarrollado y comunicado a los empleados antes de comenzar las operaciones.

15.10.2Todo empleado que deja un área contaminada deberá realizar el proceso de descontaminación (cuarto de equipo, cuarto de lavado, cuarto limpio).

15.10.3Las duchas y los cuartos de cambio deberán estar situados en áreas donde las exposiciones a contaminante estén por debajo del límite permitido.

15.10.4Todo equipo y ropa contaminada será propiamente descontaminada.

15.10.5Todo solvente utilizado para descontaminar será dispuesto correctamente según la regulación.

15.11 Respuesta de emergencia

15.11.1Deberá haber un plan de respuesta a emergencias escrito y puesto en ejecución por todos los empleados.

15.11.2Los elementos del plan de emergencia a considerar serán:

15.11.2(a) Planeamiento de la pre-emergencia

15.11.2(b) Líneas de autoridad y comunicación

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15.11.2(c) Reconocimiento y prevención de la emergencia

15.11.2(d) Distancias de seguridad y lugares de refugio

15.11.2(e) Seguridad y control del sitio

15.11.2(f) Rutas y procedimientos de desalojo

15.11.2(g) Procedimientos de descontaminación que no son cubiertos por el programa de seguridad y salud ocupacional.

15.11.2(h) Tratamiento médico y de primero auxilios.

15.11.2(i) Procedimiento de alerta y de respuesta a la emergencia.

15.11.2(j) Equipo de protección personal

15.11.2(k) Crítica de la respuesta

15.11.3Deberán ser incluidos en el plan de respuesta a emergencia:

15.11.3(a) Topografía del sitio, disposición, y condiciones atmosféricas

15.11.3(b) Procedimientos para divulgar incidentes local, al estado, u agencias gubernamentales.

15.12 Iluminación

15.12.1Las áreas accesibles a los empleados deberán tener una intensidad mínima de:

Candle-foot	Área
5	General
3	Excavaciones, áreas de basura, caminos de acceso, áreas de almacenamiento, plataformas de carga, reabastecimiento de combustible, áreas de mantenimiento.
5	Dentro de: almacenes, corredores, pasillos, y caminos de sabida.
10	Áreas de comer, cuartos de trabajo, inodoros.
30	Estaciones de Primeros Auxilios.

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15.13 Saneamiento en lugares de trabajo temporeros

15.13.1 Los envases de agua potable deberán tener una cinta adhesiva alrededor de la tapa indicando que es agua potable y la fecha.

15.13.2 Se utilizarán vasos desechables para dispensar el agua.

15.13.3 Los envases para agua No potable deberán ser identificados según su uso.

15.13.4 No deberán haber sistemas cruzados entre agua potable y no potable.

15.13.5 Las facilidades sanitarias de acuerdo al número de empleados serán:

15.13.5(a) 1 inodoro para 20 empleados o menos

15.13.5(b) 1 inodoro y 1 urinal para más de 20 y menos de 200 empleados

15.13.5(c) 1 inodoro y 1 urinal por cada 50 empleados si hay más de 200 empleados en total.

SECCIÓN 16
EXPOSICIÓN OCUPACIONAL A RUIDO

16.1 Propósito

Establecer las normas a seguir para proteger a los empleados de los efectos de los niveles de sonido que no puedan ser eliminados de su área de trabajo.

16.2 Responsabilidades

16.2.1 Personal de Seguridad y Salud Ocupacional

Sera responsabilidad del Personal de Seguridad y Salud Ocupacional adiestrar a todo personal de campo que pueda estar expuesto a niveles de sonido excesivos.

16.2.2 Supervisores

Será responsabilidad del Personal de Seguridad y Salud Ocupacional adiestrar a todo personal de campo que pueda estar expuesto a niveles de sonido excesivos.

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16.2.3 **Empleados de Operaciones**

Será responsabilidad de los empleados el seguir las reglas de este procedimiento.

16.3 Definiciones

Audiograma

Una gráfica o tabla resultando de una prueba audiometría mostrando unos niveles de audición individual como una función de frecuencia.

Decibeles(dB)

Unidad de medida de nivel de sonido

Exposición representativa

Medida de la dosis de ruido de un empleado, o promedio de 8 horas de nivel de sonido estimado de todos los empleados.

Hertz (Hz)

Unidad de medida de frecuencia, numéricamente igual a ciclos por segundo.

Nivel de acción

Exposición de 85 decibeles en un periodo de 8 horas.

Nivel de criterio de sonido

Un nivel sonido de 90 decibeles

Patología Médica

Para efectos de esta regulación, una condición o enfermedad que afecta el oído.

16.4 Requerimientos Generales

16.4.1 Niveles de Ruido Permisibles

Se proveerá protección auditiva cuando los niveles de sonido excedan los siguientes niveles de ruido permisibles.

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Duración de horas por día	dBA
8	85
6	92
4	95
3	97
2	100
1½	102
1	105
½	110
¼ o menos	115

16.4.2 Programa de Conservación de Audición

Se implementará un programa de Conservación de Audición cuando un empleado este expuesto a sobre 85dB en un periodo de trabajo de 8 horas o más.

16.4.3 Monitoreo

16.4.3(a) Una vez implementado el programa de Conservación de Audición se llevarán a cabo monitoreo continuo en el área de trabajo para determinar el equipo de protección personal adecuado.

16.4.3(b) Los niveles de sonido continuo, intermitentes o impulsivos de 80 a 130 decibeles se integrarán a la medida de ruido y se obtendrá una medida representativa.

16.4.3(c) Los instrumentos usados para medir el nivel de exposición de ruido deberán estar siempre calibrados.

16.4.3(d) Los resultados del monitoreo serán notificados a los empleados.

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16.4.4 Prueba de Audiometría

16.4.4(a) Se proveerán pruebas de audiometría a aquellos empleados que hayan estado expuestos a 85 dB o más en periodos de trabajo continuos de 8 horas.

16.4.4(b) Las pruebas serán libre de costo para el empleado.

16.4.4(c) La Prueba de Audiometría será realizada por un Audiologo, Otorrinolaringólogo, u otro médico en medicina.

16.4.4(d) Se realizará una prueba de audiometría luego de pasados los 6 meses que el empleado estuviera expuesto a niveles sobre el nivel de acción. Esta prueba servirá como línea de demarcación para las pruebas subsiguientes. Las pruebas se realizarán una vez al año a empleados que hayan estado expuestos a 85 dB o más en periodos promedios de 8 horas de trabajo diario.

16.4.4(e) El empleado no podrá exponerse a ruidos en o sobre el nivel de acción las 14 horas subsiguientes a la Prueba de Audiometría.

16.4.4(f) Los resultados de las Pruebas de Audiometría que presenten cambios considerables (10dB o más) comparados con la Prueba Inicial serán notificados por escrito al empleado en un término de 21 días.

16.4.5 Protectores de oído

16.4.5(a) Se proveerá protectores de oído a todo empleado que este expuesto a 85 dB o más en un periodo de tiempo de 8 horas de trabajo.

16.4.5(b) Se proveerá asesoramiento en el uso correcto de protectores de oído.

16.4.5(c) Se monitoreará el uso correcto y constante de los protectores de oído en el lugar de trabajo.

16.4.6 Programa de Adiestramiento

16.4.6(a) Se proveerá un programa de adiestramiento para todos aquellos empleados que estén expuestos a condiciones de ruido en o sobre los 85dB.

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16.4.6(b) El adiestramiento se repetirá anualmente para cada empleado.

16.4.6(c) El adiestramiento incluirá: el efecto de ruido en la audición, el propósito de los protectores de oídos, sus ventajas, desventajas, selección adecuada, ajuste, uso y cuidado.

16.4.6(d) El propósito de la Prueba de espirometría, y una explicación de los procesos para realizar la prueba.

16.4.7 Acceso a información y materiales de adiestramiento

16.4.7(a) Copia del estándar estará disponible en el área de trabajo.

16.4.7(b) HRC proveerá a los empleados afectados los materiales necesarios relacionados a adiestramientos

16.4.8 Registro

16.4.8(a) HRC retendrá los expedientes de los resultados de Pruebas de Espirometría, los cuales deberán contener: nombre y clasificación del empleado, fecha del audiograma, nombre del examinador, fecha de la última calibración del instrumento, evaluación de exposición a ruido más reciente.

16.4.8(b) Los expedientes de medidas de exposición a ruido serán retenidos por dos años.

16.4.8(c) Los expedientes de pruebas de audiometría serán retenidos por el tiempo que el empleado este activo.

SECCION 17
ASBESTO

17.1 Propósito

Establecer las normas para asegurar de que los empleados estén informados de los peligros de exposición de asbesto en su área de trabajo.

17.2 Responsabilidades

17.2.1 **Personal de Seguridad y Salud Ocupacional**

Será responsabilidad del Personal de Seguridad y Salud ocupacional coordinar los adiestramientos requeridos a todos los empleados de HRC y velar por el cumplimiento de las Normas de Seguridad estipuladas.

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17.2.2 **Supervisores**

Será responsabilidad de los supervisores de ejecutar este procedimiento.

17.2.3 **Empleados de Operaciones**

Será responsabilidad de los empleados el seguir las reglas de este procedimiento.

17.3 Aplicación

Las normas de seguridad aplicarán a los siguientes tipos de trabajo:

17.3.1 Demolición o salvamento de estructuras

17.3.2 Remoción o encapsulación de materiales que contengan asbesto.

17.3.3 Construcción, alteración, reparación o mantenimiento de estructuras que contengan asbesto.

17.3.4 Instalación de productos que contengan asbesto.

17.3.5 Derrames de asbestos/limpieza de emergencia.

17.3.6 Transporte, disposición, almacenado.

17.4 Definiciones

Asbesto

Materiales como la crisotila, amosita, crocidolita, antofilita o actinolita que haya sido tratado químicamente y/o alterado. También incluye cualquier material que se presuma contenga asbesto (PA CM).

Material que contiene asbesto (ACM)

Cualquier material que contenga más de 1% de asbesto.

Trabajo de Asbesto Clase I

Remoción de aislación termal de ACM/PACM aislante o de superficie.

Trabajo de Asbestos Clase II

Remoción de ACM que no sea Aislación de Sistema Térmico (TSI) ni ACM de superficie.

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Trabajo de Asbesto Clase III

Trabajo de operaciones de reparación y mantenimiento, donde pueda alterarse ACM, incluyendo TSI, ACM y PACM de superficie.

Trabajo de Asbesto Clase IV

Actividades de mantenimiento y custodia durante los cuales los empleados hagan contacto con ACM y PACM y las actividades para limpiar desperdicios y escombros contengan ACM y PACM.

PELs

Límites permisibles de Exposición

17.5 Requerimientos Generales

17.5.1 Ningún empleado deberá estar expuesto a una concentración aerosuspendida de asbesto que exceda a 0.1 fibra por centímetro cúbico de aire en un periodo de tiempo ponderado de ocho (8) horas.

17.5.2 Se le notificará a los empleados de otras compañías que trabajen en las cercanías de nuestros trabajos que se está manejando asbesto y no podrán entrar en nuestras tareas reglamentadas.

17.5.3 El área reglamentada deberá estar demarcada para minimizar el número de personas dentro del área y proteja a las personas fuera del área.

17.5.4 Toda persona que entre a un área reglamentada, deberá estar suplido con un respirador.

17.5.5 El encargado de grupo será responsable que ningún empleado coma, beba, masque chicle o se aplique cosméticos en el área reglamentada.

17.5.6 Todo trabajo de asbesto realizado dentro del área reglamentada será supervisado por una persona cualificada.

17.5.7 Se llevarán a cabo avalúos y monitoreo de exposición cuando las operaciones en el lugar de trabajo así lo requieran.

17.5.8 Las determinaciones de la exposición de los empleados deberán hacerse muestras de aires de la zona de respiración, que sean representativas de ocho horas y las exposiciones de corto término de 30 minutos de cada empleado.

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17.5.9 Se llevará a cabo un avaluó inicial que incluirá: monitoreo a los empleados, y del lugar de trabajo.

17.6 Monitoreo Periódico

17.6.1 Se conducirá un monitoreo periódico que sea representativo de la exposición de cada empleado que esté realizando trabajo Clase I o II, a menos que confine que se haya hecho un avalúo de exposición negativo para la operación completa.

17.6.2 En todas las operaciones distintas de operaciones de trabajo Clase I o II se deberá conducir monitoreo periódico de todas las exposiciones que se espera que excedan al PEL.

17.6.3 Si el monitoreo periódico revela que las exposiciones de los empleados están bajo el límite de exposición permisible, se podrá descontinuar el monitoreo para aquellos empleados cuyas exposiciones estén representadas por tal monitoreo.

17.6.4 Se llevará a cabo un monitoreo adicional, siempre y cuando haya un cambio en proceso, equipo de control, personal o prácticas de trabajo que puedan resultar en exposiciones nuevas.

17.6.5 Se utilizarán los siguientes controles de ingeniería:

17.6.6 Aspiradoras al vació equipadas con filtros HEPA para recoger los escombros y polvo que contengan ACM o PACM.

17.6.7 Métodos mojados o agentes mofantes, para controlar la exposición de los empleados durante el manejo, mezclado, remoción, corte, aplicación y limpieza de asbesto.

17.6.8 La pronta limpieza y disposición de desperdicios y escombros contaminados con asbesto en envases herméticos.

17.6.9 Ventilación de educación local con sistemas de recolección de polvo equipados con filtros HEPA.

17.6.10 Encerramiento o aislamiento de los procesos que producen polvo de asbesto.

17.6.11 Ventilación del área reglamentada para mover el aire contaminado lejos de la zona de respiración de los empleados y hacia un dispositivo de filtración o recolección equipado con un filtro HEPA.

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17.6.12 Las siguientes prácticas de trabajo y controles de ingeniería no deberá usarse para trabajo relacionado con asbesto o para trabajo que altere ACM o PACM:

17.6.13 Sierras de disco abrasivo que no estén equipadas con ventiladores de punto corte o encerramiento con educción de aire con filtros HEPA.

17.6.14 Aire Comprimido usado para remover asbesto

17.6.15 Barrido o paleado en seco

17.6.16 La rotación de empleados como medio de reducir la exposición a asbesto.

17.7 **Trabajos Clase** I

Para trabajos Clase I que envuelven la remoción de más de 25 pies lineales o 10 pies
Cuadrados de TSI o ACM a PACM de superficie se deberán usar:

17.7.1 Barreras críticas sobre todas las aberturas al área reglamentada.

17.7.2 Monitoreo del área de perímetro, cuyo resultado deberá ser entregado y revisado no más tarde de 24 horas del final del turno de trabajo.

17.7.3 Los sistemas de HVAC deberán estar aislados en el área reglamentada con una doble capa de plástico 6 mil. o el equivalente.

17.7.4 Deberán colocarse patios de cubierta impermeable sobre todas las superficies bajo toda actividad de remoción.

17.7.5 Todos los objetos dentro del área reglamentada deberán estar cubiertas por coberturas impermeables aseguradas con cinta adhesiva.

17.7.6 Los trabajos de asbesto Clase I deberán realizarse usando Sistema de Encerramiento a Presión Negativa (NPE) con las siguientes especificaciones:

17.7.7 El encerramiento puedo ser de cualquier configuración.

17.7.8 Deberá mantenerse al menos cuatro cambios por hora.

17.7.9 Un mínimo de -0.02 pulgadas de agua de columna diferencial de presión de agua, relativo a la presión externa, deberá mantenerse dentro del NPE.

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17.710 El NPE deberá mantenerse bajo presión negativo durante todo el periodo de su uso.

17.7.11 Antes de comenzar a trabajar dentro del encerramiento deberán ser desactivados.

17.7.12 Los eléctricos en el encerramiento deberán ser desactivados.

17.7.13 Para remover PACM y/o ACM de los tendidos rectos de tubería deberá usarse sistemas de bolsas de guantes, con las siguientes especificaciones:

17.7.14 Deberán estar hechas de plástico 6 mil de grueso y deberán no tener uniones en el fondo.

17.7.15 Cada bolsa deberá ser instalada de modo cubra completamente la circunferencia del tubo u estructura donde se realice el trabajo.

17.7.16 Deberán probarse con humo en busca de escapes.

17.7.17 Se usarán solo una vez y no deberán moverse.

17.7.18 No se usarán en superficies que excedan los 150°.

17.7.19 Antes de disponerse, deberán colapsarse removiendo el aire dentro de ellas usando una aspiradora HEPA.

17.7.20 Donde se use el Sistema de Caja de Guantes a Presión Negativa para remover ACM o PACM de tendidos de tubería se seguirán las siguientes prácticas de trabajo:

17.7.21 Las cajas de guantes deberán estar construidas con lados rígidos y hechas de metal u otro material que pueda soportar el peso del ACM y PACM, y agua usada durante la remoción.

17.7.22 Deberá usarse un generador a presión negativa

17.7.23 Deberá añadirse una unidad de filtración de aire a la caja.

17.7.24 La caja deberá tener aberturas con guantes

17.7.25 La caja deberá tener una abertura en su base que sirva como salida para embolsar los desperdicios de agua y ACM.

17.7.26 Deberá haber un generador de repuesto presente en el área de trabajo.

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17.7.27 Las bolsas de desperdicios deberán ser de plástico 6 mil y ponerse doble bolsa antes de llenarse, o plástico más grueso de 6 mil.

17.7.28 Al menos dos personas deberán realizar la remoción.

17.7.29 La caja deberá probarse con humo antes de cada uso.

17.7.30 El ACM suelto adyacente a la caja deberá envolverse y sellarse en dos capas de plástico de 6 mil antes del trabajo.

17.7.31 Deberá mantenerse un sistema de filtración HEPA para mantener la barrera de presión en la caja.

17.7.32 Se usará un sistema de proceso de rociado con agua para la remoción de ACM y PACM siguiendo las siguientes especificaciones:

17.7.32(a) Las tuberías que hay que removerle la aislación deberá estar rodeada por tres lados de un armazón rígido.

17.7.32(b) Deberá formarse un rocío de agua de 360 grados, que deberá chocar para formar un aerosol fino que provea una barrera líquida alrededor de los trabajadores y el ACM y PACM.

17.7.32(c) El sistema deberá funcionar al menos 10 minutos antes de que empiece la remoción.

17.7.32(d) Toda remoción deberá tener lugar dentro de la barrera.

17.7.32(e) El sistema deberá ser operado por lo menos por tres personas, una de las cuales no deberá realizar remoción, sino cotejar el equipo y la operación.

17.8 Trabajos Clase II

17.8.1 Todo trabajo Clase II deberá estar supervisada por una persona cualificada.

17.8.2 Se asumirá que toda construcción realizada antes de 1980 contiene asbestos, a menos que se determine lo contrario a través de técnicas analíticas reconocidas.

17.8.3 Monitoreo del área de perímetro, cuyo resultado deberá ser entregado y revisado no más tarde de 24 horas del final del turno de trabajo.

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17.8.4 Los sistemas de HVAC deberán estar aislados en el área reglamentada con una doble capa de plástico 6 mil. o el equivalente.

17.8.5 Deberán colocarse patios de cubierta impermeable sobre todas las superficies bajo todas las superficies bajo toda actividad de remoción.

17.8.6 Todos los objetos dentro del área reglamentada deberán estar cubiertos por cubiertas impermeables aseguradas con cinta adhesiva.

17.8.7 Los trabajos de asbesto Clase I deberán realizarse usando Sistema de Encerramiento a Presión negativa (NPE) con las siguientes especificaciones:

17.8.8 El encerramiento puedo ser de cualquier configuración.

17.8.9 Deberá mantenerse al menos cuatro cambios de aire por hora.

17.8.10 Un mínimo de -0.02 pulgadas de agua de columna diferencial de presión de agua, relativo a la presión externa, deberá mantenerse dentro del NPE.

17.8.11 El NPE deberá mantenerse baja presión negativa durante todo el periodo de su uso.

17.8.12 Antes de comenzar a trabajar dentro del encerramiento y al comienzo de cada turno, el NPE deberá inspeccionarse para brechas y probarse con humo en busca de escapes y sellarse los escapes, si los hubiera.

17.8.13 Los circuitos eléctricas en el encerramiento deberán ser desactivados.

17.8.14 Para remover PACM y/o ACM de los tendidos rectos de tubería deberá usarse sistemas de bolsas de guantes, con las siguientes especificaciones:

17.8.15 Deberán estar hechas de plástico 6 mil de grueso y deberán no tener uniones en el fondo.

17.8.16 Cada bolsa deberá ser instalada de modo que cubra completamente la circunferencia del tubo u estructura donde se realice el trabajo.

17.8.17 Deberán probarse con humo en busca de escapes.

17.8.18 Se usarán solo una vez y no deberán moverse.

17.8.19 No se usarán en superficies que excedan los 150°.

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17.8.20 Antes de disponerse, deberán colapsarse removiendo el aire dentro de ellas usando una aspiradora HEPA.

17.8.21 Donde se use el Sistema de Caja de Guantes a Presión Negativa para remover ACM a PACM de tendidos de tubería se seguirán las siguientes prácticas de trabajo:

17.8.22 Las cajas de guantes deberán esta construidas con lados rígidos y hechas de metal u otro material que pueda soportar el peso del ACM y PACM, y agua usada durante la remoción.

17.8.23 Deberá usarse un generador a presión negativa.

17.8.24 Deberá añadirse una unidad de filtración de aire a la caja.

17.8.25 La caja deberá tener aberturas con guantes.

17.8.26 La caja deberá tener una abertura en su base que sirva como salida para rembolsar los desperdicios de agua y ACM.

17.8.27 Deberá haber un generador de repuesto presente en el área de trabajo.

17.8.29 Al menos dos personas deberán realizar la remoción.

17.8.30 La caja deberá probarse con humo antes de cada uso.

17.8.31 El ACM suelto adyacente deberá envolverse y sellarse en dos capas de plástico de 6 mil antes del trabajo.

17.8.32 Deberá mantenerse un sistema de filtración HEPA para mantener la barrera de presión en la caja.

17.8.33 Se usará un sistema de proceso de rociado con agua para la remoción de ACM y PACM siguiendo las siguientes especificaciones:

17.8.33(a) Las tuberías que hay que removerle la aislación deberá estar rodeada por tres lados de un armazón rígido.

17.8.33(b) Deberá formarse un rocío de agua de 360 grados, que deberá chocar para formar un aerosol fino que provea una barrera líquida alrededor de los trabajadores y el ACM y PACM.

17.8.33(c) El sistema deberá tener un lugar dentro de la barrera.

17.8.33(d) Toda remoción deberá tener lugar dentro de la barrera.

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17.8.33(e) El sistema deberá ser operado por al menos tres personas, una de las cuales no deberá realizar remoción, sino cotejar el equipo y la operación.

17.9 Trabajos Clase II

17.9.1 Todo trabajo Clase II deberá estar supervisada por una persona cualificada.

17.9.2 Se asumirá que toda construcción realizada antes de 1980 contiene asbestos, a menos que se determine lo contrario a través de técnicas analíticas reconocidas.

17.9.3 Deberán colocarse barreras críticas sobre todas las aberturas al área reglamentada.

17.9.4 Se usarán métodos de aislación que eviten la migración del asbesto aerosuspendido.

17.9.5 Deberán colocarse patios de cubierta impermeables sobre las superficies bajo toda actividad de remoción.

17.9.6 El trabajo Clase II puede ser realizado usando el método de trabajo de Clase I, excepto que las bolsas y cajas de guantes encierran completamente el material Clase II a ser removido.

17.9.7 Para remover pisos/materiales de cubierta de vinillo o asfalto que contengan ACM, se deberá cumplir con las siguientes prácticas:

17.9.8 No deberán ser lijadas.

17.9.9 Se usarán aspiradoras equipadas con filtro HEPA, bolsas desechables para polvo y herramientas de metal para piso (no cepillo).

17.9.10 Todo el raspado de adhesivo y/o soporte residual deberá realizarse usando métodos majados.

17.9.11 El barrido en seco está prohibido.

17.9.12 El picada mecánico está prohibida, a menos que se realice un encerramiento a presión negativa.

17.9.13 Las losas deberán ser removidas intactas, a menos que se demuestre que esto no es posible.

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17.9.14 Para remover material de techar que contenga ACM, se seguirán las siguientes prácticas de trabajo:

17.9.15 Deberá ser removido en un estado intacto.

17.9.16 Deberá usar métodos mojados donde sea factible.

17.9.17 Las máquinas de cortar deberán rociarse continuamente durante su uso.

17.9.18 Todo polvo suelto dejado por operaciones de aserrado debe ser aspirado con HEPA inmediatamente.

17.9.19 El material de techar que no esté envuelto o embolsado deberá bajarse inmediatamente al suelo, colocado en una bolsa de desperdicios impermeable no más tarde del final del turno de trabajo.

17.9.20 Las fuentes de toma de aire y ventilación son aisladas o el sistema de ventilación deberá cerrarse.

17.9.21 Se usarán controles de ingeniería y prácticas de trabajo modificados, si se cumplen las siguientes disposiciones.

17.9.22 Que el método que se utilice no exceda los PELs.

17.9.23 Se certificará por escrito que los métodos utilizados son los adecuados para reducir la exposición directa o indirecta de los empleados.

17.10 Trabajos Clase III

17.10.1 El trabajo deberá realizarse usando métodos mojados.

17.10.2 El trabajo deberá realizarse usando ventilación de educción local.

17.10.3 Cuando la operación envuelta taladrado, corte, lijado, picado, rotura o aserrado del aislante o material de superficie de sistema térmico, se usarán paños de cubierta impermeables y se deberá aislar la operación usando mini-encerramientos o sistemas de bolsas de guantes.

17.10.4 Los empleados que realicen trabajos Clase III que envuelvan alteración de TSI a ACM a PACM de superficie, deberán usar respiradores.

17.11 Trabajos Clase IV

17.11.1 Todos los trabajos Clase IV deberán conducirse utilizando métodos mojados, aspiradoras HEPA y la pronta limpieza de los escombros que contengan ACM a PACM.

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No excede a 10 p/cc (100 x PEL)	Cualquier purificador de aire automático equipado con filtros de alta eficiencia a cualquier respirador de aire suplido operado al modo de flujo continuo.
No excede a 100 p/cc (1,000 x PEL)	Respirador de aire suplido de careta completa operada al modo de demanda de presión.
Mayor de 100 p/cc (1,000 x PEL) a concentración desconocida.	Respirador de aire suplida de careta completa operada al modo de demanda de presión, equipada con un aparato respirador.

17.12.11 Se deberá intuir un programa de respirador.

17.12.12 Todo empleado que use un respirador de filtro, deberá cambiar los elementos del filtro siempre que se detecte un aumento en resistencia a la respiración.

17.12.13 Ningún empleado deberá ser asignado a tareas que requieran el uso de respirador, si su examen de función pulmonar indica que esto es incapaz de funcionar normalmente usando un respirador.

17.12.14 Se deberá realizar una prueba de ajuste de respirador al empleado antes de asignarle su respirador y otra cada seis meses a partir de entonces.

17.13 Ropa Protectora

17.13.1 Se deberá proveer ropa protectora a todo empleado expuesto a concentraciones aerosuspendido de asbesto que excedan al TWA y para cualquier empleado que realice operaciones de trabajo Clase I que envuelvan la remoción de más de 25 pies lineales o 10 pies cuadradas de TSI a ACM o PACM de superficie.

17.13.2 El lavado de ropa contaminada se hará de modo que evite la liberación de asbesto aerosuspendido.

17.13.3 La ropa contaminada deberán ser transportadas en bolsas u envases impermeables selladas y etiquetados.

17.13.4 La persona cualificada deberá examinar los trajes de trabajo usados por los empleados al menos una vez por turno de trabajo, en busca de desgarrones o roturas. De encontrar alguna rotura esta deberá arreglarse inmediatamente o el traje deberá ser sustituido.

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17.14 Facilidades y prácticas de higiene para empleados

17.14.1 Se deberá establecer un área de descontaminación de empleados que realicen trabajos Clase I que envuelvan sobre 25 pies lineales o 10 pies cuadrados de TSI a ACM o PACM de superficie.

17.14.2 El área de descontaminación deberá consistir en cuarto de equipo, área de duchas y cuarto limpio en serie.

17.14.3 El cuarto de equipo deberá estar suplido de bolsas y envases etiquetados, para el contenido y disposición del equipo protector contaminado.

17.14.4 El área de la ducha deberá estar localizada entre el cuarto de equipo y el cuarto limpio.

17.14.5 El cuarto limpio deberá estar equipado con un armario o envase de almacén apropiado para el uso de cada empleado.

17.14.6 Las empleados entrarán y saldrán del área reglamentada a través del área de descontaminación.

17.14.7 Los procedimientos de entrada al área de descontaminación serán:

17.14.8 Se entrará al área de descontaminación a través del cuarto limpio.

17.14.9 La ropa de calle serán depositadas dentro de un armario provisto para su uso.

17.14.10 Se colocarán la ropa protectora y la protección respiratoria antes de abandonar el cuarto limpio.

17.14.11 Antes de entrar el área reglamentada, el empleado deberá pasar a través del cuarto de equipo.

17.14.12 Los procedimientos de salida del área de descontaminación serán:

17.14.13 Antes de abandonar el área reglamentada, los empleados remuevan toda la contaminación gruesa y escombros de su ropa protectora.

17.14.14 Los empleados no deberán remover su ropa protectora en el cuarto de equipo y depositar la ropa en bolsas o envases impermeables etiquetados.

17.14.15 Los empleados no deberán remover sus respiradores en el cuarto limpio.

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17.14.16Los empleados deberán ducharse antes de entrar al cuarto limpio.

17.14.17Después de ducharse, los empleados deberán entrar al cuarto limpio antes de cambiarse a sus ropas de calle.

17.15 Comunicación de Riesgo

17.15.1 Deberá proveerse y costear letreros que demarquen el área reglamentada en cada localización.

17.15.2 Los letreros de advertencia requeridos deberán llevar la siguiente información:

ASBESTO

RIESGO DE CANCER Y ENFERMEDAD PULMONAR

PERSONAL AUTORIZADO SOLAMENTE

SE REQUIERE RESPIRADOR Y ROPA DE PROTECCIÓN EN ESTA ÁREA

17.15.3 Se fijarán etiquetas a todos los productos que contengan asbesto, incluyendo envases de desperdicios. Las etiquetas deberán contener la siguiente información:

PELIGRO

CONTIENE FIBRAS DE ASBESTO

EVITE CREAR POLVO

RIESGO DE CANCER Y ENFERMEDAD PULMONAR

17.16 Adiestramiento

17.16.1 El adiestramiento deberá ser conducido de manera que el empleado sea capaz de comprender lo siguiente:

17.16.1(a) Métodos de reconocimiento de asbesto

17.16.1(b) Efectos a la salud asociadas con la exposición a asbesto.

17.16.1(c) La relación entre fumar y asbesto en producir cáncer pulmonar

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17.16.1(d) La naturaleza de las operaciones que pudiera resultar en la exposición de asbesto.

17.16.1(e) El propósito, uso apropiado, instrucciones de ajuste y limitaciones de los respiradores.

17.16.1(f) Prácticas de trabajo apropiadas para realizar trabajo de asbesto

17.16.1(g) Los requisitos del programa de vigilancia medica

17.16.1(h) El contenido de la norma OSHA

17.16.1(i) Los requisitos de postear letreros y fijar etiquetas y el significado de las leyendas requeridas para tales letreros y etiquetas.

17.17 **Limpieza**

17.17.1 En métodos de aspirado, se utilizará equipo de aspiradora con filtros HEPA.

17.17.2 Los desperdicios, escombros, desechos, bolsas, envases, equipo y ropa contaminados con asbesto deberán ser recogidas y disponer de ellos en bolsas u otros envases impermeables etiquetados.

17.17.3 El polvo y los escombros en un área que contenga aislante de sistema térmico accesible a material de superficie a ACM visiblemente deteriorada no deberá barrerse o desempolvarse en seco, o aspirarse sin usar un filtro HEPA.

17.18 **Vigilancia Médica**

17.18.1 Se intuirá vigilancia médica a todo empleado que este expuesto a asbesto un total combinado de 30 días o más al año, en trabajos Clase I, II y III o estén expuestas al o sobre el límite permisible de exposición.

17.18.2 Se realizarán exámenes y consultas médicas a todo empleado bajo las siguientes circunstancias:

17.18.3 Antes de la asignación a un área dando respiradores a presión negativa.

17.18.4 Cuando el empleado sea asignado a un área donde la exposición a asbesto pueda estar en o sobre la exposición permisible por 30 días o

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más al año, debe completarse un examen médico dentro de los 10 días laborables siguientes al trigésimo día de exposición, y anualmente a partir de entonces.

17.18.5 Los exámenes médicos deberán incluir:

19.18.5(a) Un historial médico y de trabajo con énfasis especial dirigido a los síntomas pulmonar, cardiovascular y gastrointestinal.

19.18.5(b) En el examen inicial y el examen anual según el cuestionario estandarizado requerido por OSHA.

19.18.5(c) Un examen físico dirigido a los síntomas pulmonar y gastrointestinal, incluyendo radiografía de pecho, pruebas de función pulmonar.

19.18.5(d) Cualquier otro examen o prueba considerados necesarios por el médico examinador.

17.18.6 HRC proveerá al médico la siguiente información:

17.18.6(a) Una descripción de los deberes del empleado afectado, según se relacionarán a la exposición de los empleados.

17.18.6(b) El nivel de exposición representativa del empleado a nivel de exposición anticipada.

17.18.6(c) Una descripción de cualquier equipo protector o respiratorio usada o a usarse.

17.18.6(d) Información de los exámenes médicos previos de los empleados afectados.

17.18.7 HRC deberá obtener una opinión escrita del médico examinador, que incluirá:

17.18.7(a) Resultados de examen médico

17.18.7(b) Alguna condición médica detectada que pudiera colocar al empleado en riesgo debido a exposición a asbesto.

17.18.7(c) Cualquier limitación del empleado que impida usar el equipo de protección respiratoria.

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17.18.7(d) Una declaración que el empleado ha sido informado por el médico de los resultados del examen médico y cualquier condición que pudiera resultar de la exposición a asbesto.

17.19 **Expedientes**

17.19.1 Se mantendrán los expedientes de todas las mediciones tomadas en el lugar de trabajo para monitorear la exposición de los empleados a asbesto por un periodo de 30 años.

17.19.2 Se mantendrán los expedientes médicos de todos los empleados durante la duración del empleo más treinta (30) años subsiguientes.

17.19.3 Los expedientes de adiestramientos se mantendrán por un año después de la ultima fecha de empleo.

17.20 **Inspecciones**

17.20.1 Se llevarán a cabo inspecciones regulares y frecuentes de los sitios de trabajo, materiales y equipo a usarse.

17.20.2 En trabajos Clase I, deberán hacerse inspecciones por lo menos una vez cada turno.

17.20.3 Para trabajos Clase II y III, deberán hacerse a intervalos suficientes para evaluar si las condiciones han cambiado y cualquier tiempo si es solicitada por el empleado.

SECCION 18
PLATAFORMA AEREAS

18.1 Propósito

Establecer un programa para asegurar que todas aquellas actividades que requieren el uso de plataformas aéreas sean conducidas de forma segura para minimizar el riesgo al personal y facilidades.

18.2 Responsabilidades

19.2.1 **Personal de Seguridad y Salud Ocupacional**

Será responsabilidad del Personal de Seguridad y Salud Ocupacional ofrecer el adiestramiento a todos los empleados que utilicen plataformas aéreas y velar por el cumplimiento de este procedimiento.

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18.2.2 Supervisores

Se asegurarán que todo empleado tenga el equipo de protección personal antes de operar una plataforma aérea. Verificará que todo empleado que utilice una plataforma aérea tenga la certificación como persona competente.

18.2.3 Empleados de Operaciones

19.2.3(a) Usarán todo el equipo de protección personal que se requiera según el equipo a usar.

19.2.3(b) Notificarán al supervisor cualquier condición insegura en los sistemas de protección al momento de utilizar las plataforma aérea.

19.2.4(c) Inspeccionarán todo equipo de protección antes de realizar el trabajo.

19.2.5(d) Será responsabilidad de los empleados el seguir las reglas de este procedimiento.

18.3 Definición

Una plataforma aérea es un equipo pesado de motor con un componente extensible utilizado para realizar trabajos en altura. Entre estos:

18.3.1 Extensibles

18.3.2 Articulados

18.3.3 Escaleras aéreas

18.3.4 Torres verticales

18.3.5 Combinación de los dispositivos anteriores

18.4 Requerimientos Específicos

19.4.1 Los controles aéreos deben ser examinados cada día previo a su uso.

19.4.2 Solo personal autorizado puede operar una plataforma aérea.

19.4.3 Los empleados deberán estar posicionados firmemente el piso de la canasta.

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19.4.4 No se extenderá el peso del brazo del equipo o la canasta a una distancia mayor de la recomendada por el fabricante.

18.4.5 El equipo no deberá mover cuando el brazo este elevado en una posición de trabajo con un hombre en la canasta.

18.4.6 Los brazos extensibles o articulados deben tener un sistema de control dentro de la canasta y otro en uno de los lados de la plataforma del equipo.

18.4.7 Los controles en la plataforma del equipo no podrán ser operados sin la autorización del empleado que este en la canasta, excepto en el caso de una emergencia.

18.4.8 Todas las inspecciones eléctricas se realizarán conforme a los requerimientos de ANSI A92.2-1969.

18.4.9 Se mantendrá una distancia entre el equipo y las líneas eléctricas:

TABLA DE DISTANCIAS

Rango de Voltaje	M.D.A.D. EVITE CONTACTO	
	PIES	METROS
0 A 300V	10	3.05
SOBRE300VA50KV	15	4.60
SOBRE50KVA200KV	20	6.10
SOBRE350KVA500KV	25	7.62
SOBRE500KVA 750KV	35	10.67
SOBRE750KVA1000KV	45	13.72

18.4.11 Mientras el equipo este en operación, el personal no relacionado a los trabajos se mantendrá fuera del área de operaciones.

18.4.12 Si la maquina esta desatendida, deberá, bajarla, apagarla, colocar el freno de emergencia y remover la llave.

18.5 Procedimiento

18.5.1 Operación Segura

Antes de hacer uso del equipo deberá:

18.5.1(a) Estar adiestrado como un operador autorizado.

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18.5.1(b) Entenderá las instrucciones escritas recomendadas por el manufacturero.

18.5.1(c) No estará bajo los efectos de medicamentos, drogas ilegales o alcohol.

18.5.1(d) No hará uso del equipo si las alturas le ocasionan temor, vértigo.

18.5.1(e) Conocerá las reglas de seguridad aplicables

18.5.1(f) Utilizará el equipo de protección requerido

18.5.1(g) Conocerá el equipo

18.5.1(h) Inspeccionará el equipo

18.5.1(i) Inspeccionará el área de trabajo

18.5.1(j) Planificará el trabajo

18.6 Aplicación de combustible

Antes de aplicar el combustible la plataforma se bajará, el motor de apagará y se colocará el freno fijo.

Otras precauciones a seguir serán:

18.6.1 Nunca llene el tanque con el motor encendido.

18.6.2 No fume, no cree chispa o flama abierta.

18.6.3 No sobrellene el tanque de combustible, si hay un derrame, límpielo de inmediato.

18.6.4 Use el combustible del grado y tipo apropiado para el equipo.

18.6.5 Cierre las válvulas de gas propano antes de cambiar el tanque.

18.7 Equipo de Protección Personal

Utilizará todo el equipo de seguridad requerido para cada tarea específica:

18.7.1 Arnés de cuerpo entero, conectado a un punto específico de amarre.

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18.7.2 Capacete de Seguridad ANSI Z89.1

18.7.3 Gafas de seguridad

18.7.4 Guantes

18.7.5 Protección auditiva

18.8 Componentes de Seguridad

La plataforma de trabajo estará equipada con:

18.8.1 Cadena o portón de protección

18.8.2 Barras de seguridad

18.8.3 Estabilizadores o gatos

18.8.4 Ejes extensibles

18.8.5 Alarmas audibles cuando está en movimiento

18.8.6 Controles de emergencia

18.8.7 Controles remotos

18.8.8 Otros que apliquen dependiendo de trabajo

18.9 Inspección de áreas de trabajo

Antes de usar el equipo, todo operador:

18.9.1 Inspeccionará las superficies o ruta de la máquina

18.9.2 Identificará hoyos, obstáculos o camino irregular

18.9.3 Identificará rampas o alcantarillas cubiertas con material que no soporte el peso de la máquina.

18.9.4 Verificará que no hay derrame de aceite, estabilidad del camino (no este resbaloso), o terreno blando.

18.9.5 Verificará las puertas de salida que se encuentren en la ruta de trabajo, y tomará en consideración un plan alterno para cualquier eventualidad.

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18.10 Inspección de equipo

Antes de cada uso se inspeccionará el equipo y se reportarán todas las deficiencias. Si se reporta algún desperfecto, la unidad no se utilizará hasta que sea reparada. En adición se:

18.10.1 Verificará perdidas, daños, ilegibilidad de los avisos de advertencia.

18.10.2 Inspeccionará partes rotas, dañadas o flojas.

18.10.3 Inspeccionará las llantas por roturas, cortaduras, y presión de aire.

18.10.4 Llevará inspecciones de rutina de agua, combustible, aceite de motor, y aceite hidráulico.

18.10.5 Inspeccionará el sistema hidráulico para detectar escapes.

18.10.6 Inspeccionará si hay soldaduras astilladas.

18.11 Limpieza del equipo

18.11.1 Antes de comenzar a limpiar la máquina, baje la plataforma y apague el motor.

18.11.2 Limpie los escalones, pasamanos, escaleras y la plataforma.

18.11.3 Remueva la grasa o aceite derramado.

18.11.4 Remueva todas las herramientas o equipo de la plataforma.

18.11.5 Mantenga la plataforma y el mecanismo de levantamiento limpio libre de escombros o basura.

SECCION 19
PLOMO

19.1 Propósito

Establecer las normas de seguridad a seguir donde haya una exposición ocupacional a plomo en trabajos de construcción.

19.2 Responsabilidades

19.2.1 **Personal de Seguridad y Salud Ocupacional**

Será responsabilidad del Personal de Seguridad y Salud Ocupacional

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coordinar velar por el cumplimiento de las Normas de Seguridad estipuladas.

19.2.2 **Supervisores**

Será responsabilidad de los supervisores de ejecutar este procedimiento.

19.2.3 **Empleados de Operaciones**

Será responsabilidad de los empleados el seguir las reglas de este procedimiento.

19.3 Aplicación

Las tareas cubiertas por este programa serán los trabajos de construcción como:

19.3.1 Demolición o el salvamiento de estructuras o materiales que contengan plomo.

19.3.2 Retiro o encapsulación de los materiales que contengan plomo.

19.3.3 Construcción, alteración, reparación, o renovación de estructuras que contengan plomo.

20.3.4 Limpieza de plomo en situaciones de emergencia o contaminación.

19.3.5 Transporte, disposición, almacenaje o contención de materiales que contienen plomo.

19.4 Requerimientos

19.4.1 Limite de exposición permitido

El límite de exposición permitido será de 50ulm3 de aire en un periodo de ocho (8) hora. Ningún empleado podrá trabajar con una exposición mayor de 10u/m3 sobre el nivel permitido sin usarse equipo de protección.

19.4.2 Controles

19.4.2(a) Se utilizarán los controles de ingeniería necesarios para reducir el nivel de exposición del área en la cual se trabajará y se proveerá protección respiratoria.

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19.4.2(b) Antes del comienzo de cada proyecto se establecerá un programa escrito estableciendo el plan de trabajo.

19.4.2(c) Se realizarán inspecciones continuas para asegurar el cumplimiento del plan de trabajo.

19.4.2(d) Se evaluarán los sistemas de ventilación necesarios para mantener los niveles de exposición lo más bajo posible.

19.4.2(e) Se establecerá un horario de rotación por tarea para los empleados.

19.4.2(f) Se fijarán señales de peligro en cada área de trabajo donde exista una exposición a plomo sobre el PEL que indique lo siguiente:

- ADVERTENCIA
- AREA DE TRABAJO CON PLOMO
- VENENO
- NO FUMAR O COMER

19.4.2(g) El material removido a descartarse se hará según las leyes locales establecidas.

19.5 Protección respiratoria

Los respiradores se utilizaran cuando:

19.5.1 Los periodos de exposición de un empleado exceden el Límite de Exposición Permitido (PEL).

19.5.2 Las operaciones de trabajo en las cuales los controles de ingeniería no son suficientes para bajar los niveles de exposición.

19.5.3 Un empleado lo solicite.

19.5.4 Se establecerá un Programa de Protección Respiratoria escrito.

19.5.5 Antes de asignar o utilizar un respirador, el empleado se someterá a evaluaciones médicas y pruebas de ajustes.

19.5.6 La selección del respirador dependerá del nivel de exposición existente.

Concentración de Plomo en aire	Respirador requerido

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<500 GFM3	Media mascara con filtros de alta eficiencia
<2,500 g/m3	Mascara completa con purificador de aire con filtros de alta eficiencia o aire suplido.
>100,000 g/m 3	Mascarilla de cara completa SCBA

19.6 Ropa y equipo protector

19.6.1 Se utilizara donde el empleado este expuesto a concentraciones de plomo sobre el PEL.

19.6.2 Se proveerá un área para cambio de ropa, área para equipo contaminado, área de lavado (ducha) y cuarto limpio.

19.6.3 Toda ropa con residuos de plomo será rotulada como:

PREACUCION ROPA CONTAMINADA CON PLOMO

19.6.4 Se prohíbe sacudir la ropa o cualquier que pueda dispersar plomo en el aire.

19.7 Vigilancia Médica

19.7.1 Serán requeridos si el empleado está o estará expuesto a plomo en el trabajo o por encima del nivel de acción por más de treinta (30) días en un año o si estuvo expuesto a una concentración de plomo de >47 u/m3 en cualquier momento durante los doce (12) meses anteriores.

19.7.2 El tipo de examen médico a realizarse se basará en pruebas de sangre para monitoreo biológico y examen médico de seis partes.

19.7.3 Se tomarán muestras de sangre (monitoreo biológico), a cada empleado nuevo, para determinar la concentración de plomo y ZPP ("Zinc protoporphyrin") en la misma. Estas se realizarán cada dos (2) meses por los primeros seis (6) meses y cada seis (6) meses después de este periodo.

19.7.4 Los exámenes médicos deberán ser evaluados por un médico licenciado.

19.7.5 Los resultados de los exámenes serán enviados a Homeca Recycling Center. Se notificarán los resultados a los empleados dentro de cinco días laborables luego de haberlos recibido.

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19.7.6 Cuando los resultados de concentración de plomo en la sangre estén en o por encima de 40 ug/dl el empleado deberá de analizarse nuevamente dentro de dos meses hasta el nivel del plomo en la sangre sea inferior a 40 ug/dl.

19.7.7 Cuando los resultados de concentración de plomo en la sangre estén en o por encima de 50 ug/dl el empleado deberá de analizarse nuevamente dentro de dos semanas.

19.7.8 Si el segundo análisis resulta en una concentración mayor o igual a 50 ug/dl el empleado será removido del área de trabajo donde se mantenga la exposición a plomo. El empleado se realizará pruebas mensualmente hasta que la concentración de plomo en la sangre este en 40 ug/cU o menos en dos fechas de pruebas distintas. Estas pruebas estarán separadas por treinta (30 días o más.

19.7.9 El examen de seis partes a completarse en este proceso comprenderá:

19.7.9(a) Historial Médico: Exposiciones pasadas con plomo, hábitos personales, problemas médicos previos con los riñones, corazón, nervios, sangre, estómago, intestinos y órganos reproductivos.

19.7.9(b) Examen físico completo

19.7.9(c) Evaluación de presión sanguínea

19.7.9(d) Pruebas de sangre

19.7.9(e) Urinálisis Rutinario

19.7.9(f) Cualquier análisis que el médico determine necesario para determinar como el plomo ha afectado o podría afectar al empleado.

19.7.10 El empleado tendrá derecho a un examen médico y consulta si:

19.7.10(a) Se siente enfermo con cualquier síntoma de envenenamiento con plomo.

19.7.10(b) Si tiene el nivel de plomo en la sangre por encima de 40 ug/dl.

19.7.10(c) Está preocupado acerca de tener un bebé saludable.

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19.7.10(d) Tiene dificultad de respirar cuando está usando un respirador.

19.7.11 Se someterá al médico examinador la siguiente información:

19.7.11(a) Copia del estándar de OSHA, incluyendo los apéndices.

19.7.11(b) Descripción de trabajo del empleado afectado relacionado con la exposición a plomo.

19.7.11(c) Nivel de exposición a nivel anticipado de plomo que el empleado esta o estará expuesto.

19.7.11(d) Descripción del equipo de protección personal a ser usado por el empleado.

19.7.11(e) Determinación precisas de plomo en la sangre.

19.7.11(f) Todas las opinas médicas escritas previas en poder de la compañía concerniente al empleado.

19.7.12 El empleado será removido de su lugar de trabajo si médicamente presenta:

19.7.12(a) Alto nivel de plomo en la sangre.

19.7.12(b) Si el médico determinará que el empleado tiene una condición médica la cual será afectada por la exposición al plomo. El médico proveerá una opinión médica escrita para remover al empleado de la exposición de plomo.

19.7.13 El empleado volverá a su trabajo relacionado con plomo si luego de realizarle dos pruebas consecutivas de sangre indican que los niveles de plomo están en o por debajo de 40 ug/dl.

19.8 Adiestramientos

19.8.1 Se proveerá adiestramiento antes de la asignación de trabajo a empleados nuevos y anualmente a empleados regulares.

19.8.2 El adiestramiento incluirá, pero sin limitarse a:

19.8.2(a) El contenido del Estándar de OSHA para Plomo

19.8.2(b) Las operaciones especificas que involucren exposición a plomo.

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19.8.2(c) El uso de equipo de seguridad

19.8.2(d) Vigilancia módica a seguir

19.8.2(e) Controles de ingeniería a utilizarse

19.8.2(f) Método de disposición de Plomo

19.9 Expedientes

19.9.1 Los expedientes de monitoreo deberán incluir:

19.9.1(a) Fecha, número, duración, localización y los resultados de cada una de las muestras tomadas.

19.9.1(b) Descripción del tipo de muestra, métodos analíticos utilizados, y calibración del equipo.

19.9.1(c) Tipo de protección respiratoria utilizada

19.9.1(d) Nombre, clasificación de trabajo del empleado.

19.9.1(e) Variables ambientales que podrían afectar la medida de exposición del empleado.

19.9.2 Los expedientes médicos deberán incluir:

19.9.2(a) Nombre, número de seguro social, y descripción de los deberes del empleado.

19.9.1(b) Copia de la opinión médica

19.9.2(c) Quejas del empleado relacionada a la exposición medica.

19.9.2(d) Copia de los resultados del laboratorio

19.9.2(e) Documentos de trámites utilizados cuando se remueve un empleado del área de trabajo.

19.9.3 Los expedientes médicos deberán conservarse por la duración del empleo más 30 años. Si el empleado trabajó menos de un año no será requisito guardar su expediente médico mas allá de la duración de empleo.

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SECCION 20
RADIACIÓN

20.1 Propósito

Establecer las normas de seguridad a seguir para el uso adecuado y seguro del material radiactivo contenido en medidores portátiles de humedad/densidad utilizados para medir el suelo y otro materiales.

20.2 Responsabilidades

20.2.1 Personal de Seguridad y Salud Ocupacional

Será responsabilidad del Oficial frente a la Radiación (RSO) el uso y posesión de este equipo. El RSO es el único responsable entre la Agencia reguladora y encargado de las siguientes labores específicas:

20.2.1(a) Asegurar que se cumpla con todos los términos y condiciones de la licencia y que la información contenida se encuentre actualizada y sea exacta.

20.2.1(b) Garantizar que se verifique el equipo en los intervalos requeridos, para detectar posibles fugas.

20.2.1(c) Asegurar que el equipo sea manejado por operaciones autorizados por el RSO y según las normas estipuladas. Esto incluirá el uso de un dispositivo de monitoreo de personal adecuado.

20.2.1(d) Conservar registros de acuerdo a lo requerido por la licencia y las normas establecidas.

20.2.1(e) Garantizar en todo momento que el equipo no sea trasladado a no ser que cuente con una autorización previa.

20.2.1(f) Servir como punto de contacto y proporcionar asistencia en caso de una emergencia, tal como: daños al equipo en el campo, robo, o fuego y notificar a las autoridades competentes en caso de una emergencia.

20.2.1(g) Asegurarse que todos los operadores hayan leído y comprendido el Plan de Seguridad frente a la Radiación.

20.2.1(h) Coordinar la capacitación apropiada a todos los operadores.

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20.2.1(i) Ofrecer un repaso anual a todos los operadores del medidor que incluya, pero sin limitarse: la operación, procedimientos de emergencia, necesidades de transporte, cambios en las normas aplicables o condiciones de licencia, y correcciones o deficiencias identificadas por el RSO.

20.2.1(j) Colocar todas las señales y notas requerid en el lugar de almacenamiento del medidor.

20.1.1(j)(1) Postear el documento RH-2364, información a los empleados.

20.1.1(j)(2) Etiquetar el armario de almacenamiento con "Cuidado, Material Radioactivo" y el símbolo internacional.

20.1.1(j)(3) Postear copia de la licencia de la organización, Plan de Seguridad, y normas de operación.

20.2.2 **Supervisores**

Será responsabilidad de los supervisores de ejecutar este procedimiento.

20.2.3 **Empleados de Operaciones**

Será responsabilidad de los empleados el seguir las reglas de este procedimiento.

20.3 Operación

20.3.1 El operador mantendrá en todo momento el debido control del medidor. En ningún momento deberá dejarse desatendido o en manos de una persona no autorizada.

20.3.2 Cuando el equipo no se esté utilizando, se cerrara en su lugar permanentemente de almacenamiento/transporte.

20.3.3 Una vez realizada la prueba el medidor se colocará en su lugar permanentemente de almacenamiento.

20.3.4 Cuando se utilice el equipo, el operador utilizará el dispositivo de

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20.6 Mantenimiento

20.6.1 El mantenimiento periódico incluirá la limpieza del medidor. El operador deberá contar con la información apropiada sobre la manera en que deberá limpiar el medidor y utilizará su dispositivo de monitoreo asignado.

20.6.2 Durante el mantenimiento nunca se retirará la fuente radioactiva del medidor en caso que fuera necesario retirarlo, este trabajo deberá ser realizado por el fabricante o un centro de servicio autorizado para este tipo de trabajo.

20.6.3 Anualmente, se llevará a cabo una prueba de fugas (o en intervalos especificados en la licencia) utilizando el kit de pruebas de fugas, y de acuerdo con las instrucciones del fabricante del medidor. El operador deberá recibir las instrucciones apropiadas sobre la manera en que deberá realizar la prueba de fugas en el medidor y utilizará su dispositivo de monitoreo asignado.

20.6.4 La caja de embarque será revisada periódicamente para verificar su integridad, y chequear que se encuentren todas las etiquetas completas y sean legibles.

20.7 Registros

Los registros consistirán de:

20.7.1 Licencia de Material Radioactivo

20.7.2 Informes de Disimetría Personal

20.7.3 Certificados de Pruebas de Fugas

20.7.4 Certificado de Capacitación

20.7.5 Inventario de Medidores

20.7.6 Registro de Verificación de Entrada/Salida

Se adjuntará un registro de salida al armario de almacenamiento. La información en el registro incluirá el número de serie del medidor, medidor de saluda del operador, fecha de salida, destino, fecha de retorno estimada, y la fecha real de retorno.

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20.8 Procedimientos de Emergencia

20.8.1 Relación de Teléfonos

Se proveerá un listado separado de este documento.

20.8.2 Equipo comprometido

20.8.2(a) En caso que algún equipo móvil se encontrará comprometido, detenga su movimiento, hasta el grado que pudiera producir contaminación, se deberá establecer dicho grado de contaminación.

20.8.2(b) Cerque el área alrededor de la cual se produjo el incidente. Será suficiente un área con un radio de quince (15) pies.

20.8.2(c) Inspeccione visualmente el medidor a fin de determinar el grado del daño de la fuente, la estructura que cubre la fuente, el revestimiento protector. Si la fuente, la estructura, y el revestimiento protector se encuentran intactos y pueden continuar funcionando, se podrá retirar el medidor del lugar y colocado nuevamente en el contenedor de embarque. Si se observan daños físicos se enviará al fabricante para su reparación o cambio.

20.8.2(d) Si no pudiera identificarse, de manera positiva la integridad ni ubicación de la fuente, tan pronto como se produjeron, una vez que la situación se encuentre bajo control, contacte al RSO. Describa las condiciones y siga las instrucciones del RSO. El RSO notificará inmediatamente a la agencia reguladora.

20.8.2(e) El RSO seguirá las instrucciones de la agencia reguladora.

20.8.2(f) Si la varilla de la fuente se dobla o extiende, o se daña el revestimiento protector de tal forma que las cantidades de dosis aparentemente excedan a las del medidor no afectado, comuníquese con el fabricante para que le dé instrucciones antes de su embarque.

20.8.3 Cabezal Medidor Alojado o Perdido dentro del Orificio

20.8.3(a) Procedimiento de operación para evitar que el cabezal medidor se pegue o se pierda dentro del barreno:

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20.8.3(a)(1) Todos los orificios de acceso para los cabezales medidores deberán encontrarse cubiertos con un revestimiento continuo desde la profundidad más baja hasta un mínimo de seis pulgadas por encima de la superficie.

20.8.3(a)(2) Los conectores de los cables del cabezal medidor y los dispositivos electrónicos deberán ser revisados diariamente para asegurarse que se encuentran bien ajustados.

20.8.3(a)(3) Siga las instrucciones de la autoridad debidamente facultada.

20.8.4 Robo o Pérdida

Informe de inmediato al RSO. El RSO notificará a su vez a la agencia reguladora pertinente y a la policía.

20.8.5 Disposición I Cierre

20.8.5(a) La disposición solo se llevará a cabo transfiriendo el trabajo a una organización que cuente con la debida licencia.

20.8.5(b) La agencia reguladora será notificada con 30 días por adelantado de cualquier reubicación del área de almacenamiento. El cierre formal no será necesario, siempre y cuando se realicen pruebas de fugas continuas.

20.9 Adiestramientos

Todos los operadores deberán seguir el curso de Capacitación del Operador impartido por el fabricante. Se ofrecerá adiestramiento especial según sea necesario para las asignaciones de trabajo individual.

El presente Plan de Seguridad frente a la radiación, será implementado, en todos los casos. Asimismo, se deberá mantener en todo momento una copia de estos procedimientos en el archivo de licencia de los materiales radioactivos del titular de la licencia y otra coipa en la caja de embarque del medidor nuclear.

SECCION 21

<u>Normas que frecuentemente se están violando en la Industria de la Construcción</u>

Es responsabilidad del Personal de Seguridad y Salud Ocupacional mantener

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informado a los gerentes, supervisores, y personal administrativo sobre las violaciones más frecuentes a las normas de OSHA en la industria de la construcción.

ANDAMIOS. Requerimientos Generales (1926.451)

- Capacidad
- Construcción de plataforma de andamio
- Criterios para andamios de soporte
- Criterios para andamios de suspensión
- Acceso
- Uso
- Protección contra caídas
- Protección contra objetos cayentes

PROTECCIÓN DE CAIDAS. Alcance. Aplicaciones y Definiciones (1926.500-501)

- Sitios de trabajo, condiciones, operaciones y circunstancias por las cuales la protección contra caídas debe ser prevista.
- Diferentes sistemas de protección de caídas requeridas
- Definiciones: anclaje, correas de seguridad, hebilla, conector, zona de acceso controlado, equipo peligroso, equipo de desaceleración, equivalente, falla, caída libre, sistema de pasamanos, distancia de caída libre, abertura, no factible, eslinga, borde principal, línea salvavidas, etc.

EXCAVACIONES. Requerimientos Generales (1926-651)

- Impedimentos superficiales
- Instalaciones subterráneas
- Acceso y salida
- Exposición al tráfico vehicular
- Exposición a la caídas de carga
- Sistema amonestador para el equipo móvil
- Atmósferas peligrosas
- La protección a peligros asociados a la acumulación de agua
- Estabilidad de estructuras adyacentes
- Protección de empleados contra roca o tierra floja
- Inspecciones
- Protección de caídas

ESCALERAS. Requerimientos Generales (1926.405)

- Resistencia escalera
- Dimensiones, peldaños y grapas
- Dispositivos de seguridad
- Usos

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ELÉCTRICO. Métodos de Alambrado. Componentes y Equipo General (1926.405)

- Requisitos generales
- Alambrado temporero
- Gabinetes, cajas, y guarniciones
- Interrupciones
- Conductores para cableado general
- Cuerdas y cables flexibles
- Cables portables sobre 600 voltios
- Alambres del dispositivos
- Equipo para el uso general

EXCAVACIONES. Requerimientos para Sistema de Protección (1926.652)

- Protección de empleados en excavaciones
- Diseño de los sistemas de inclinación
- Diseño de los sistemas de soporte
- Materiales y equipo
- Instalación y retiro del soporte
- Sistema protectores

PROTECCIÓN DE CABEZA. Requerimientos Generales (1926.100)

- Requerimiento para determinar el uso de protección de cabeza
- Requisitos de seguridad, ANSI Z89.1-1969
- Protección contra choques eléctricos

CONSTRUCCIÓN. Provisiones Generales de Seguridad y Salud Ocupacional (1926.020)

- Requisitos para contratistas
- Responsabilidad para la prevención de accidentes
- Aplicación de la norma

MANEJO APROPIADO DE LAS PLATAFORMAS AÉREAS (1926.453)

- Requisitos generales: diseño, tipos de plataformas aéreas, modificaciones
- Requisitos específicos: camiones de escala y camiones de torre, plataforma de puntal extensible y articulado, pruebas eléctricas, factor de seguridad de rotura, normas de soldadura.

PROTECCIÓN DE CAÍDAS. Requerimientos de adiestramientos (1926.503)

- Programa de adiestramiento
- Certificación de adiestramiento
- Requisitos para re-entrenamiento

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SECCION 22

ACTUALIZACIONES Y REVISIONES

Una copia de este Plan y todas las revisiones subsiguientes permanecerán en las facilidades y oficinas administrativas. Copias adicionales de este plan estarán disponibles a través del Gerente de Operaciones.

Este Plan será revisado, si fuera necesario, cuando las Regulaciones y Códigos que apliquen sean revisados y como resultado de algún incidente, que se determine que el plan no es efectivo.

Fecha	Sección	Comentarios / Cambios	Revisado por:
04/30/09	TODAS	NO FUE NECESARIA ACTUALIZACION DEL PLAN	ING. LUZDELLYS ECHEVARRIA
11/12/12	TODAS	NO FUE NECESARIA ACTUALIZACION DEL PLAN	TAMARA ECHEVARRIA

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Ciudad: Peñuelas Estado: PR
Nombre Analista: Benjamin Cintron
Título Analista: Capataz Proyecto
Título del Observador: Edwin Cintron y Melvin Feliciano
Compañía Analista: Homeca Parque Inc
Compañía Observador: Homeca

☐ Empleado a Empleado ☑ Supervisor a Empleado ☐ Empleado a Contratista ☐ Otros

REGION: ☑ 1. Puerto Rico ☐ 2. Estados Unidos ☐ 3. República Dominicar

Departamento
☑ 1. Demolición
☑ 2. Reciclaje
☑ 3. Ambiental
☐ 4. Pintura Industrial
☐ 5. Otro

Localización/Área
☐ 1. Terminal Aéreo
☑ 2. Planta Química
☐ 3. Terminal Distribución
☐ 4. Plantas Tratamiento
☐ 5. Tubería Acero
☐ 6. Tubería/Ducto
☐ 7. Área Contaminada
☐ 8. Otro

Tipo(s) de Trabajo(s) Observado(s) (Marque todas las actividades de trabajo observadas)

☐ 1. Cambio de Carbón
☐ 2. Construcción
☑ 3. Demolición
☐ 4. Deshidratación
☐ 5. Perforación
☐ 6. Excavación / Zanjas
☐ 7. Calibrar
☑ 8. Remoción Asbesto/Plomo
☐ 9. Remediación Móvil (incluye "vacuum" inyección Química)
☐ 10. Pintura Industrial
☐ 11. O&M
☐ 12. Corte de Pavimento
☐ 13. Pruebas de Bombas
☐ 14. Levantamiento
☐ 15. Muestreo
☐ 16. Visita al Área / Estudio
☐ 17. "Clearance" de Superficie
☐ 18. Instalación Sistema
☐ 19. Limpieza Ambiental
☐ 20. Remoción de Tanque Soterrado Área de Relleno
☐ 21. Disposición de Desperdicios
☐ 22. Pozo y Tubería de Pozo Abandonadas
☐ 23. Otro (Especifique):

Describa brevemente el trabajo observado, incluyendo Equipo Utilizado, Condiciones del Tiempo y Ambiente (e.g. Clima, Tráfico, Área acdvo/inactivo, etc.)

Remocion De Asbesto Demolicion y Reciclaje De Acero

Comentarios Positivos (específicos, describa y discuta ejemplos de actitudes laborales y situaciones correctivas significativas)

Trabajos Comenzaron Con La Preparacion De Area y limpieza De las Areas y Se mantiene El Area Humeda para control De Particulado Los monitores Demuestran Efectividad

Comentarios/Comunicación de Satisfactorios
Asegúrese de discutir y resolver todas las partes determinadas

Reunión de Discusión por: Capataz de Proyecto Fecha:
Nombre Supervisor Observador: Edwin Cintron y Melvin Feliciano Hora:

Factores de Personal/Empleados: N/A
(1) Falta de destrezas y conocimiento
(2) Manera correcta toma más tiempo y requiere más esfuerzo
(3) Cortar procedimientos requeridos se apreciado y compensado
(4) En el pasado no se siguieron procedimientos y prácticas aceptables y no ocurrió ningún incidentes

Factores Laborales/Tares: N/A
(5) Falta de procedimientos operacionales o falta de requisitos adecuados de trabajo
(6) Comunicación inadecuada de expectativas o requisitos de trabajo
(7) Equipo y herramientas inadecuadas

		N/A				

Repasado por: Fecha:
Aprobado por: Fecha:

Selección	Repasado por	Título	Compañía	Fecha	Detalles
1	Benjamin Cintron	Capataz	Homeca		Control De Calidad y Objetivos Cumplidos

Selección	Aprobado por	Título	Compañía	Fecha	Detalles

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H2MECA RECYCLING

OBSERVACIÓN ANÁLISIS DE PREVENCIÓN

(observación no debe durar más de 30 minutos)

??? #	EQUIPO DE PROTECCIÓN PERSONAL	Correctos (Número de veces de artículo observado)	Incorrectos (Número de veces de artículo observado)	COMENTARIOS (Proveer por cada uno ??? Artículos y Acciones correctivas significativas; Indicar un N/A por los artículos que no aplican)
1	(.00101) Protección Auditiva	✓		
2	(.00102) Protección de Cabeza (Cascos)	✓		
3	(.00103) Protección Visual y Cara (Gafas o Mascara)	✓		
4	(.00104) Protección de Manos (Guantes)	✓		
5	(.00105) Protección de Pies (Botas)	✓		
6	(.00107) Protección Respiratoria (Máscara)	✓		
7	(.00108) Protección de Caídas	✓		Arnes
8	(.00106) Ropa Protectora (Ej. Chaleco, mamelucos, etc.)	✓		
9	(.00114) Otros (Especifique)	✓		Bom Uso
LENGUAJE CORPORAL Y POSICIÓN AL LABORAR		**CORRECTO**	**???**	**COMENTARIOS**
10	(.00207) Correcto dando levantando, empujando, alando, bobinandose, alcanzando objetos	✓		
11	(.00208) Objetos - Punsantes maquinaria y equipo en movimiento	✓	✓	Tubería y Barandas
12	(.00204) Al montarse y Desmontarse de Maquinaria	✓		
13	(.00215) Otro (Especifique)			
AMBIENTE LABORAL		**CORRECTO**	**???**	**COMENTARIOS**
14	(Áreas de trabajos y tranco libre de objetos que ocasionen caidas, tropezones y peligros de resbalones.		✓	Se Revisa todo los Equipos utilizados
15	(.00306) Limpieza / Almacenamiento (por ejemplo, de las herramientas y equipos)	✓		
16	(.00307) Area de trabajo definido y con seguridad (por ejemplo, dispositivos de advertencia, barricadas, conos, banderas)	✓		
17	(.00311) Los dispositivos de apagado de seguridad (por ejemplo disponible, identificados, probados?)	✓		
18	(.01701) Almacenamiento y Disposición de Residuos y Materiales de muestras	✓		
19	(.00327) Otro (Especifique)			
PROCEDIMIENTOS OPERACIONALES		**CORRECTO**	**???**	**COMENTARIOS**
20	(.00401) Plan de trabajo / inspección antes de los trabajos	✓		
21	(.00406) Permisos de trabajos/autorización para trabajar (trabajos ...os o calientes, espacios confinados, Excavaciones)	N/A		Al momento
22	(.00414) Procedimientos para hacer el trabajo	✓		
23	(.00415) Verificar áreas de peligros	✓		Aseguradas
24	(.00420) Interfaces con otras funciones (conocimiento de otras actividades / personal en las instalaciones)	N/A		
25	(.00454) Estructuras del subsuelo Identificados	✓		
26	(.00455) Otro (Especifique)			
EQUIPO Y HERRAMIENTAS		**CORRECTO**	**???**	**COMENTARIOS**
27	(.01503) Herramientas de mano, Condiciones y uso	✓		
28	(.01506) Herramientas neumáticas, Condiciones y uso	✓		
29	(.01507) Selección de Equipo, Condición & Uso	✓		
30	(.01555) Otro (Especifique)			
NUMEROS TOTALES		0	0	
% Correcto [(Total Correcto / (Total Correcto+Total Cuestionable)) *100]		#DIV/0!		Todas las Areas No Seguras Se Corrijieron

"Prevención es Seguridad"

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Permiso de Demolición

OLD FACILITIES PR OLEFINS

Entidad / persona certificada

De conformidad con las disposiciones legales y reglamentarias vigentes, se expide el presente Permiso de Demolición, Certificado, Industrial, Privado para las obras a realizarse en un predio de terreno ubicado en :

Dirección física

Municipio: Peñuelas

Unidad o Km: KM. 19.1

Sector: EL PUEBLITO

Apartamento:

Barrio: Tallaboa Poniente

Calle o carretera: CARRETERA 127

Número(s) de Catastro

387-000-007-11

Dueño(s)

HOMECA RECYCLING CENTER CO., INC.

Certificado por

Proyectista - Ing. jose LUIS rivera Lic. No. 17818

Inspector Designado

Ing. JOSE LUIS RIVERA Lic. No. 17818

Casos de Referencia

Colindantes

Norte: SEGREGATED LOT "A"
Distrito: Industrial pesado

Este: STATE HIGHWAY #2
Distrito: Área No Calificada

Sur: CHICAGO BRIDGE & IRON COMPANY
Distrito: Industrial pesado

Sur: RENTAS ESTATALES
Distrito: Industrial pesado

Oeste: CARRETERA 127
Distrito: Área No Calificada

Datos permiso

Calificación

Distrito(s) de Calificación: Industrial pesado

Distrito(s) Especial:

Distrito(s) Sobrepuesto:

Accesos: Privado

Distrito en el Mapa de Inundabilidad: ZONA AE

Tipo de suelo:

Explosivos

No aplica

Servidumbres existentes

Acueductos (AAA) y Alcantirallado (AAA)/Electricidad (AEE)/Vía municipal de acceso (Municipio)/Vía estatal de acceso (DTOP)/Telecomunicaciones (PRTC)

Materiales de construcción

Paredes exteriores: Otros: METAL FERROSO Y NO FERROSO.

Paredes interiores: Otros: METAL FERROSO Y NO FERROSO.

Techo: Otros: METAL FERROSO Y NO FERROSO.

Piso: Hormigón armado.

Plantas

Cantidad de plantas : 1

Dimensiones de la estructura

Altura: 165 metros

Largo: 1095.5351 metros

Ancho: 139.8140 metros

CONDICIONES ESPECIALES

CONDICIONES GENERALES

Las obras de demolición deberán cumplir con las siguientes condiciones generales:

1. La demolición deberá proseguir según las especificaciones y el itinerario de trabajo establecido para el proyecto en el Documento Ambiental.
2. Se cumplirá en todo momento con la Ley Sobre Política Pública Ambiental y las disposiciones de la Regla Número 23 del Reglamento de Seguridad Industrial del Departamento del Trabajo.
3. Es requisito indispensable que formalice una póliza de Seguro de Obreros en la Oficina correspondiente al Fondo del Seguro del Estado. Deberá cargar evidencia de la misma previo al inicio de las obras de demolición.
4. Se le indica a la parte proponente que deberá tomar las precauciones necesarias para no ocasionar daños a estructuras existentes en terrenos adyacentes al proyecto. Será responsabilidad de la parte proponente obtener los permisos de los dueños que resulten afectados por las obras de construcción a realizarse en las colindancias, previo al comienzo de las mismas.
5. Se advierte que, esta aprobación no implica que se prive a los propietarios colindantes del derecho de ejercitar cualquier acción legal que estime pertinente en contra de los proponentes en este caso, para proteger sus propiedades y reclamar compensación por daños y perjuicios que se les sea ocasionados por las obras de demolición aquí autorizadas.
6. Deberá coordinar con las autoridades pertinentes para la disposición de desperdicios sólidos.
7. Para efectos de coordinación, es responsabilidad del proponente notificar con anticipación sobre cualquier interferencia de tránsito, o servicios que esta obra pueda ocasionar, a la Autoridad de Energía Eléctrica, la Autoridad de Acueductos y Alcantarillados, el Dpto. de Transportación y Obras Públicas, la Autoridad de Carreteras y Transportación, Policía de Puerto Rico, la Junta de Calidad Ambiental, la Junta Reglamentadora de Telecomunicaciones, la Defensa Civil, el Municipio donde se llevará a cabo, los colindantes y vecinos y el Instituto de Cultura Puertorriqueña.
8. Así mismo, deberá notificar a la OGPe

   Una parte adversamente afectada por una actuación, determinación final o resolución podrá presentar un recurso de revisión administrativa ante la Junta Revisora, dentro del término jurisdiccional de veinte (20) día contados a partir de la fecha de archivo en autos, de copia de la notificación de la actuación, determinación final o resolución. Presentada la revisión administrativa, la Oficina de Gerencia, el Profesional Autorizado, la Junta Adjudicativa o el Municipio Autónomo con Jerarquía de la I a la V, elevará a la Junta Revisora copia certificada del expediente del caso, dentro de los diez (10) días naturales siguientes a la radicación de la revisión.

   La parte adversamente afectada notificará copia de la solicitud de revisión a las partes y a los interventores que hayan sido autorizados, dentro de las cuarenta y ocho (48) horas de haber radicado el recurso de revisión administrativa establecido en el Artículo 12.1 de la Ley Núm. 161 de 1 de diciembre de 2009. Este requisito es de carácter jurisdiccional. En el propio escrito de revisión, la parte recurrente certificará a la Junta Revisora su cumplimiento con este requisito. La notificación podrá hacerse por correo o por cualquier medio electrónico que se establezca en el Reglamento Interno.

Firma / Sellos

Fecha de expedición
29/04/2012



Notificación al Centro de Coordinación de Excavaciones y Demoliciones (CCED) de la Comisión de Servicio Público

El día 28 de abril de 2012, jose rivera ha radicado el Permiso de Demolición con número de caso 2012-009772-PDE-05800, para un predio de terreno ubicado en:

Municipio: Peñuelas

Unidad o Km: KM. 19.1

Sector: EL PUEBLITO

Apartamento:

Barrio: Tallaboa Poniente

Calle o carretera: CARRETERA 127

El expediente de este caso se aneja a esta notificación para su debida evaluación y tramitación.

Nota:

Según requerido, el CCED notificará a los dueños de las Utilidades sobre el correspondiente aviso de demolición en un término no mayor de un (1) día de recibida esta solicitud. Así mismo, de ser debidamente notificado por el proponente, el CCED otorgará tiempo adicional al otorgado en la certificación original, tomando en consideración que no otorgarán más de dos (2) extensiones por aviso.

Demolition Permit

OLD FACILITIES PR OLEFINS

Person/ Business Details

In compliance with the current legal and regulatory provisions, this Demolition Permit is issued, Certified, Industrial, Private for the work to be done on the site located at:

Physical Address

Municipality: Peñuelas

Ud. o Km: KM. 19.1

Sector: EL PUEBLITO

Apt./Suite No:

Ward: Tallaboa Poniente

Road or Street: CARRETERA 127

Cadastre Number(s):

387-000-007-11

Owner(s)

HOMECA RECYCLING CENTER CO., INC.

Certified by

Project Manager - Eng. jose LUIS rivera Lic. No. 17818

Designated inspector

Eng. JOSE LUIS RIVERA Lic. No. 17818

Reference Cases

Adjacent Neighbors

North: SEGREGATED LOT "A"
Distrito: Heavy industrial

East: STATE HIGHWAY #2
Distrito: Non-Classified Area

South: CHICAGO BRIDGE & IRON COMPANY
Distrito: Heavy industrial

South: RENTAS ESTATALES
Distrito: Heavy industrial

West: CARRETERA 127
Distrito: Non-Classified Area

Project Details

Qualification District

Qualification District: Heavy industrial

Special District:

Overimposed district:

Access: Private

Flood Insurance Rate Map Sheet No.: ZONA AE

Type of soil:

Explosives

Not applicable

Existing Utilities

Aqueducts and Sewers (PRASA)/Electricity (PREPA)/Municipal access way (Municipality)/State access way (DTOP)/Telecommunications (PRTC)

Construction materials

Exterior Walls: Others: METAL FERROSO Y NO FERROSO.
Interior Walls: Others: METAL FERROSO Y NO FERROSO.
Roof: Others: METAL FERROSO Y NO FERROSO.
Floor: Reinforced concrete.

Floors

Number of floors: 1

Structure dimensions

Maximum height: 165 meters
Length1095.5351 meters
Width: 139.8140 meters

SPECIAL CONDITIONS

GENERAL CONDITIONS

Demolition projects must comply with the following general conditions:

1. Demolition must occur following specifications and work schedule established for the project mentioned in the Environmental Document.

2. Project must fully comply with the Law on Environmental Public Policy and the provisions of Rule No. 23 of the Industrial Safety Regulations of the Puerto Rico Department of Labor.

3. It is a requirement to obtain a worker's compensation insurance policy at the Office: Fondo del Seguro del Estado.

4. The proponent is notified that he/she shall take the necessary precautions to avoid damage to existing adjacent structures. It is the sole responsibility of the proponent to obtain permission from adjacent neighbors who may be affected by the construction works happening next to their properties, prior to the start of construction.

5. It is advised that this approval does not imply that neighboring owners are deprived of the right to exercise any legal action they deem appropriate against the proponents, to protect their properties and claim compensation for damages caused to them due to demolition works hereby authorized.

6. The proponent should coordinate with the relevant authorities for the disposal of solid waste.

7. It is the responsibility of the proponent to notify in advance to the following agencies of any interference of transit or services the construction works can cause: Electric Power Authority (PREPA), Aqueduct and Sewer Authority (PRASA), Dept. of Transportation, Highways and Transportation Authority, Puerto Rico Police, Environmental Quality Board, Telecommunications Regulatory Board, Civil Defense, Municipality where the construction will be held, Neighboring owners, and Institute of Puerto Rican Culture.

Any party adversely affected by an action, final determination or resolution may resort to the Reviewing Board and request an administrative review within the jurisdictional term of twenty (20) days as of the filing in the record of the case, a copy of the notice of such action, final determination or resolution. Once the request for administrative review is filed, the Management Office, the Authorized Professional, the Adjudicatory Board or the Autonomous Municipality with I to V granted hierarchy shall forward a certified copy of the record of the case to the Reviewing Board within ten (10) calendar days as of the filing of the review.

The adversely affected party shall send a copy of the request for administrative review to the Management Office, the Adjudicatory Board, the Autonomous Municipalities with I to V granted hierarchy, or the Authorized Professional, as applicable, the parties, and any authorized interveners within forty-eight (48) hours after filing the recourse for administrative review set forth in Section 12.1 of the Puerto Rico Permit Process Reform Act. This requirement is jurisdictional in nature. In such writ for review, the appellant shall certify to the Reviewing Board that it complies with said requirement. The notice may be made by mail or any other electronic means as established in the Bylaws.

Signature/ Seal

Issue date
29/04/2012

Ing. Edgardo Lizarry Ortiz, J.D
DIRECTOR EJECUTIVO

Notification to the Coordination Centre of Excavations and Demolitions (CCED) of the Public Service Commission.

On April 28, 2012, jose rivera requested a Demolition Permit with case number 2012-009772-PDE-05800, for a tract of land located in:

Municipality: Peñuelas

Ud. o Km: KM. 19.1

Sector: EL PUEBLITO

Apt./Suite No:

Ward: Tallaboa Poniente

Road or Street: CARRETERA 127

The case file is attached to this notice for its due evaluation and processing.

Note:

As required, the CCED will notify the owners of the Utilities about the demolition notice within a period not exceeding one (1) day of receipt of such request. Also, if duly notified by the proposer, the CCED will grant additional time to that given in the original certification, taking into consideration that no more than two (2) extension by notice will be granted.

Oficina de Gerencia de Permisos
P O Box 41118 San Juan, Puerto Rico 00940

Permiso General Consolidado

Forma PGC-014

Desmantelamiento Antiguas Instalaciones PR Olefins

Tipo de solicitud: Nueva

Datos Localización

De conformidad con las disposiciones legales y reglamentarias vigentes, se expide el presente Permiso General Consolidado para un predio de terreno ubicado en:

Dirección Física

Municipio: Peñuelas

Unidad o Km: km 19.1

Sector: Sector El Pueblito

Apartamento:

Barrio: Tallaboa Poniente

Calle o carretera: Carr. PR-127

Número(s) de Catastro

387-000-007-49

Coordenadas Lambert

X / Y :

Dueño(s)

Procaribe P/C Homeca Recycling

1575 Ave. Munoz Rivera PMB 120, Ponce, PR, 00717-0211, Estados Unidos

Contratista

Carlos Orlando Sánchez

Inspector

Edwin Ortiz Lic. No. 18035

Documento Ambiental

Número de caso: 2011-REA-00661

Caso de Referencia

Tipo caso: 2012-009772-PDE-0580

Datos de Permiso

Tipo de obra a realizar: Demolición.

Tipo de dependencia a construir: Antigua Refinería

Cantidad de unidades a construir: 1

Área total

Lugar del proyecto: 152444 metros cuadrados

Obras a realizarse: 41064 metros cuadrados

Fecha estimada

Inicio de obras: 15-12-2012

Terminación de obras: 20-12-2013

Cuerpo(s) de agua receptor(es) de la escorrentía

#	Nombre del cuerpo de agua

Componentes de la corteza terrestre a:

Volumen total a remover: 0 metros cúbicos

Volumen total a rellenar: 0 metros cúbicos

Volumen total a almacenar: 0 metros cúbicos

Volumen total a disponer: 0 metros cúbicos

Volumen total a extraer: 0 metros cúbicos

Desperdicios sólidos:

Volumen total a generar: 6000 yardas cúbicas

Demolición:

Volumen de material a generar: 0 metros cúbicos

Tipo de material: Solo se desmantelará la estructura de metal

Instalación de tuberías y/o cables soterrados[1]

Distancia lineal: 0 pies

1 A ser instalados en áreas previamente construidas, fuera de los límites de la propiedad.

Permiso General Consolidado

Forma PGC-014

Condiciones

GENERALES

1. Se deberá instalar un rótulo en la entrada del proyecto inmediatamente sea expedido el Permiso General Consolidado. Este rótulo deberá ser de un tamaño mínimo de 4 pies por 8 pies que incluya el nombre del proyecto y el número de Permiso General Consolidado. El tamaño mínimo de las letras será de 3 pulgadas.
2. De interesar continuar la actividad para la cual se expidió este Permiso con posterioridad a la fecha de expiración de éste, deberá someter la correspondiente Solicitud de Renovación a tenor con las disposiciones reglamentarias aplicables. Esta solicitud deberá presentarse utilizando la Forma provista para estos fines, por lo menos treinta (30) dias antes de la fecha de expiración de este Permiso.
3. Toda información, especificación y documentos sometidos en esta solicitud forman parte de su Permiso General Consolidado. Será considerado como modificación cualquier cambio que se realice a la solicitud originalmente presentada.
4. Cualquier modificación realizada al permiso aprobado originalmente no altera la vigencia del mismo.
5. La JCA, al emitir este Permiso a través de la OGPe, no releva al solicitante de su responsabilidad de obtener permisos o autorizaciones adicionales de la JCA, según requerido por ley. La emisión del Permiso no debe considerarse como una autorización para llevar a cabo actividades que no están específicamente cubiertas en el mismo, las cuales pueden causar contaminación del agua, aire o terreno.
6. La JCA podrá solicitar al poseedor de este permiso que dentro de un término razonable provea cualquier información para determinar si existe causa para modificar o revocar, o para determinar si se está cumpliendo con sus términos.
7. El poseedor del permiso permitirá a la JCA, o un representante autorizado por ésta, la entrada a la instalación para inspeccionar y verificar el cumplimiento con los reglamentos sustantivos y procesales aplicables.
8. La JCA se reserva el derecho de intervenir con este proyecto en otros aspectos no cubiertos en este permiso.
9. Cada condición de este Permiso es considerada independientemente de las demás. Si la aplicación de cualquier condición de este Permiso quedará sin efecto debido a cualquier circunstancia, las restantes condiciones de este Permiso no se verán afectadas.

PERMISO CES

10. El dueño u operador deberá mantener copia de este formulario, el cual constituye su Permiso General Consolidado y copia del Plan CES autorizado por este permiso en el lugar del proyecto.
11. El dueño u operador de las obras deberá implantar en todas sus partes el Plan CES autorizado por este Permiso y mantener en buenas condiciones de operación todas las medidas de control de erosión y sedimentación y otras medidas de protección identificadas en el Plano CES.
12. Todas las medidas de control de erosión y sedimentación deberán ser seleccionadas, instaladas y mantenidas de acuerdo al Manual de Puerto Rico para el Control de la Erosión y Sedimentación en Áreas de Desarrollo y a cualquier especificación relevante del manufacturero y las mejores prácticas de la ingeniería.
13. Los sedimentos de las trampas de sedimentos y charcas de sedimentación deberán ser removidos cuando se alcance el 50% de la capacidad de diseño de las mismas, según especificado en el Plan CES.
14. Se deberán instalar medidas de control en aquellas áreas donde se hayan cesado temporera o permanentemente las actividades de construcción.
15. De ser necesario realizar una modificación mayor según definida en el Reglamento para el Control de la Erosión y Prevención de la Sedimentación, el dueño, agente o representante autorizado deberá presentar a la JCA a través de la OGPe una Solicitud de Modificación de Permiso General Consolidado acompañada de todos los documentos correspondientes que requieren reflejar la modificación antes de implantar la misma.
16. El inspector designado deberá ser un ingeniero o arquitecto autorizado a ejercer la profesión en Puerto Rico. Deberá someter informes periódicos sobre la implantación del Plan CES y el desarrollo de sus actividades a la JCA. El primer informe deberá ser sometido no más tarde del quinto (5to) día laborable a partir de la fecha de inicio de las obras. El mismo deberá ser acompañado de la Certificación del Inspector. Los informes subsiguientes deberán someterse mensualmente a partir de la fecha en que sea sometido el 1er informe.
17. Todos los informes sometidos, según requeridos en las condiciones de este Permiso deberán incluir fotografías con un tamaño mínimo de 4 pulgadas por 6 pulgadas a colores que evidencien las medidas de control de erosión provisionales y permanentes implantadas.
18. Una vez finalicen las actividades autorizadas mediante este Permiso deberá someter un informe final que evidencie la culminación de las mismas y la implantación de las medidas de control de erosión permanentes aplicables.

PERMISO DS-3

19. Todo cargamento de desperdicios sólidos no peligrosos producido por una actividad generadora, será enviado única y exclusivamente a una instalación de disposición final (Relleno Sanitario) acompañado de un manifiesto. El manifiesto a utilizarse será el formulario oficial provisto por la JCA. Ninguna finca privada deberá ser utilizada para disponer finalmente de tales desperdicios.
20. Todo desperdicio generado será transportado para su disposición final por una compañía o empresa debidamente autorizada por la JCA.
21. Deberán mantener en el proyecto un registro de todos los manifiestos (formulario oficial provisto por la JCA) originados y devueltos por la instalación de disposición final.
22. Ninguna persona podrá mantener una propiedad o sitio de construcción en forma tal que se exponga a los vehículos a recoger lodo, polvo, sustancias pegajosas, basura, o material viscoso o extraño en las ruedas u otras partes del vehículo, los cuales a su vez puedan ser depositados en las calles, callejones u otro sitio público.
23. De ser necesario modificar el Plan de Operación, el dueño, agente o representante autorizado deberá someter a la JCA a través de OGPe una Solicitud de Modificación de Permiso General Consolidado junto al Plan enmendado antes de implantar la modificación.
24. Una vez finalicen las actividades autorizadas mediante este Permiso deberá someter todos los manifiestos (formulario oficial provisto por la JCA) originados y devueltos por la instalación de disposición final.

PERMISO PFE

25. Deberán proveer y utilizar un sistema para controlar las emisiones de polvo fugitivo en todo el proyecto para evitar en todo momento que materia particulada gane acceso al aire más allá de la colindancia de este proyecto.
26. Deberán cubrir con toldos o encerados los camiones de acarreo de material de relleno y escombros durante los viajes de carga y descarga.
27. No se permitirá la quema de arbustos, árboles o la quema de basura en el proceso de limpieza de los predios de la construcción.
28. No se permitirá la emisión visible de contaminación de aire provenientes de vehículos de motor (equipo pesado) impulsados por combustible diesel, estando fijos y estacionados con una opacidad mayor al 20% por más de cinco (5) segundos consecutivos.

Permiso General Consolidado

Forma PGC-014

Apercibimiento

La JCA podrá revocar este Permiso antes de la fecha de vencimiento si se violan las condiciones del mismo o reglamentos sustantivos o procesales aplicables de la JCA; la agencia además podrá emitir una Orden de Cese y Desistimiento y Mostrar Causa.

"Cuando la agencia deniegue la concesión de una licencia, franquicia, permiso, endoso, autorización o gestión similar, o de alguna manera se intente impugnar las condiciones del mismo; la parte adversamente afectada tendrá derecho a impugnar la determinación de la agencia por medio de un procedimiento adjudicativo, según se establezca en el Reglamento de Vistas Administrativas de la Junta de Calidad Ambiental de la JCA y en las secs. 2151 a 2168] de la Ley Núm. 170 del 12 de agosto de 1988, según enmendada, Ley de Procedimiento Administrativo Uniforme".

Firma/Sello

Fecha expedición
16-01-2013

Fecha expiración
16-01-2018

Reynaldo Matos Jiménez
Director Ejecutivo Interino

Consolidated General Permit

Form PGC-014

Desmantelamiento Antiguas Instalaciones PR Olefins

Type of Application: New

Location details

In compliance with the current legal and regulatory provisions, the following Consolidated General Permit is issued for the site located at:

Physical Address

Municipality: Peñuelas

Ud. o Km: km 19.1

Sector: Sector El Pueblito

Apt./Suite No:

Ward: Tallaboa Poniente

Road or Street: Carr. PR-127

Cadastre Number(s):

387-000-007-49

Lambert Coordinates

X / Y :

Owner(s)

Procaribe P/C Homeca Recycling

1575 Ave. Munoz Rivera PMB 120, Ponce, PR, 00717-0211, Estados Unidos

Contractor

Carlos Orlando Sánchez

Inspector

Edwin Ortiz Lic. No. 18035

Environmental Compliance

Case number: 2011-REA-00661

Reference Case

Case type: 2012-009772-PDE-0580

Project Details

Type of work to be done: Demolition.

Dependency type to be built: Antigua Refinería

Number of units to build: 1

Total area

Project site: 152444 square meters

Construction site: 41064 square meters

Estimated date

Works starting date: 15-12-2012

Works end date: 20-12-2013

Receiving water runoff project

#	Name of Body of water

Components of the terrestrial cortex to:

Total volume to remove: 0 cubic meters

Total volume to be filled: 0 cubic meters

Total volume to be stored: 0 cubic meters

Total volume to be disposed of: 0 cubic meters

Total volume to extract: 0 cubic meters

Solid waste:

Total volume to be generated: 6000 cubic yards

Demolition:

Total volume to be generated: 0 cubic meters

Material Type: Solo se desmantelará la estructura de metal

Underground pipelines and/or cables installation [2]

Linear distance: 0 feet

2 To be installed in areas previously constructed outside the boundaries of the property.

Consolidated General Permit

Form PGC-014

Conditions

GENERALS

1. A sign must be installed at the project entrance immediately after the Consolidated General Permit is issued. This sign must be at a minimum a 4 feet by 8 feet and will include the project name and the Consolidated Environmental Permit number. The letters minimum size will be 3 inches.
2. If party is interested to continue the activity for which the permit was issued after its expiration date, an Application for Renewal must be submitted in accordance with the applicable regulations. This request must be done using the application form designed for this purpose, at least thirty (30) days before the expiration date of this Permit.
3. All information, and specifications and documents submitted in this application become part of the Consolidated General Permit. Any changes to the application submitted to OGPe will be considered a modification.
4. Any modification to the approved permit does not change the expiration date of the permit.
5. In issuing this Permit through OGPe, Environmental Quality Board (EQB) does not relieve the permit holder of his responsibility to obtain additional permits or authorizations from EQB or OGPe, as required by law. The issuance of the Permit should not be considered as an authorization to carry out activities that are not specifically covered in it, which can cause pollution of water, air or land.
6. EQB may request the applicant to provide, within a reasonable amount of time, any information that will help determine if there is sufficient cause to ask for a modification or revocation or if permit holder is in compliance with terms and conditions.
7. The holder of the permit will allow the EQB, or its authorized representative, to enter the facility to inspect and verify compliance with applicable substantive and procedural regulations.
8. The EQB reserves the right to interfere with this project in other aspects not covered in this permit.
9. Each condition in this permit is considered independently from the others. If the application of any condition of this Permit is rendered null due to any circumstance, the other conditions of this permit shall not be affected.

CES (Control, Erosion, Sedimentation) Permit

10. The owner or operator shall maintain copies of this form, which constitutes the General Consolidated Permit and copy of the CES Plan authorized by this permit on project site.
11. The owner or operator of the construction works should implement in its entirety the CES Plan approved by this Permit and keep in good operating condition all control erosion and sedimentation measures and other protective measures identified in the CES Plan.
12. All measures to control erosion and sedimentation should be selected, installed and maintained according to the Puerto Rico Manual for the Control of Erosion and Sedimentation in Development Areas and any relevant specification from the manufacturer and engineering best practices.
13. Sediment from sediment traps and ponds shall be removed when it reaches 50% of their capacity, as specified in CES Plan.
14. Control measures shall be implemented in areas where construction activities have been temporarily or permanently ceased.
15. If it becomes necessary to make a major modification as defined in the Regulations for Erosion and Sedimentation Control, the owner or authorized representative must submit to EQB through OGPe an Application for Modification of the Consolidated General Permit with all related documents that proves a modification must occur before implementing it.
16. The designated inspector shall be an engineer or architect licensed to practice in Puerto Rico. The inspector must submit to EQB periodic reports on the implementation of the CES Plan and the progress of the plan activities. The first report shall be submitted not later than the fifth (5th) business day after the date of commencement of works. In addition to the report, the inspector must submit his/her certification with OGPe's form designed for this purpose. Subsequent reports shall be submitted monthly from the date the first report is submitted.
17. All reports submitted, as required by the conditions of this permit must include color photographs (4 inches by 6 inches) that demonstrate the temporary and permanent erosion control measures implemented.
18. Upon completion of the activities authorized by this permit, the applicant shall submit a final report evidencing the completion thereof and the implementation of permanent erosion control measures applicable.

DS-3 Permit

19. Any shipment of non-hazardous solid waste produced by a generating activity, will be sent exclusively to a disposal facility (landfill) accompanied by a manifest, which will be provided by the EQB. No private property shall be used as a final disposal site for such waste.
20. All waste generated will be transported for disposal by a company or corporation duly authorized by the EQB.
21. A registry must be maintained at the project site of all originated and returned manifests by the final disposal installation.
22. No person shall maintain a property or building site in a manner that exposes vehicles to collect mud, dirt, sticky substances, trash, or viscous or foreign material on the wheels or other parts of the vehicle, which in turn can be deposited on the streets, alleys or other public places.
23. If it becomes necessary to modify the Operating Plan, the owner, agent or authorized representative must submit to EQB through OGPe an Application for Modification of the Consolidated General Permit with the amended plan before implementing any change.
24. Once all authorized activities by this permit are finalized all originated and returned manifests by the final disposal installation must be submitted.

Emissions Source Permit (PFE)

25. The applicant must provide and use a system to control fugitive dust emissions throughout the project to avoid at all times particulate matter from getting airborne. Water sprayers and tanker trucks to control fugitive particulate emissions may be used throughout the project.
26. Trucks hauling fill material and debris must be covered with tarpaulins or awnings during loading/ unloading trips.
27. The burning of bushes, trees or burning trash during the premises cleaning process will not be allowed.
28. The emission of visible air pollution from motor vehicles (heavy equipment) powered by diesel fuel, being stationary and parked, with an opacity greater than 20% for more than five (5) consecutive seconds will not be allowed, according to Rule 403 of the Atmospheric Pollution Control Regulations.

Consolidated General Permit

Form PGC-014

Notice

The Puerto Rico Environmental Quality Board (EQB) may revoke this permit before the expiration date if the conditions of the permit or the provisions of the applicable regulations are violated. The EQB may also issue a cease and desist order.

When the agency refused to grant a license, franchise, license, endorsement, approval or similar management, or otherwise attempt to challenge the conditions thereof, the party adversely affected shall have the right to challenge the determination of the agency through a adjudicative proceeding, as set forth in the Rules of Administrative Hearings of the Environmental Quality Board of the EQB and the secs. 2151-2168 of Act No. 170 of August 12, 1988, as amended, the Uniform Administrative Procedures Act. "

Signatures and stamps

Issue date
16-01-2013

Expiration date
16-01-2018

Reynaldo Matos Jiménez
Director Ejecutivo Interino

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DESMANTAL WORK PLAN

PART 1: RELATED DOCUMENTS AND CONDITIONS.

The general provisions of this work plan apply to the work specified in this section.

PART 2: DESCRIPTION OF WORK

The work includes all labor, materials, etc. necessary to dismantle and recycle all metals generated from the Antiguas Facilidades Puerto Rico Olefins. This project magnitude covers former Olefins location in Peñuelas Puerto Rico.The dismantle includes all precautionary measures required for the protection of existing and adjacent work and property. In general, dismantle consists of, but not necessarily limited to, the following:

A. Removal of existing structures metal frames and equipment items indicated to for recycling purposes.

B. Removal and protection of existing fixtures and equipment items indicated "salvage".

C. To a complete dismantle of all indicated metal structures, pipes, tanks valves and always protecting the existing areas to be conserved.

D. All dismantle work are going to be done with specialize equipment excavator with shear and grapples.

C. The dismantle activities will stars from one end of the plant east side to west side until completion.

D. All chimneys will laid down to ground using 45,000 ton grane and cut to small pieces for transportation

E. All scrap metal generated from the dismantle will be prepared in sizes of 4'x 2' on site for transportation on 45' containers to port.

F. Once finish dismantle all material generated that are not for recycle will be place on 20 yrd container and dispose of the as garbage to a regular landfill.

Note: Before the dismantle work all asbestos materials will be removed in order to complied with all permits and regulations. Homeca must deliver the clearance laboratory results to a representative in the Air Department at EQB, main office in San Juan.

PART 3: SUBMITTALS

Homeca Recycling, Inc. will submit methods and sequence of operations for selective dismantle work to Owner's or his representative for review prior to commencement of work. Include coordination for shut-off, capping and continuation of utility services as required, together with details for dust and noise control protection.

PART 4: JOB CONDITIONS

1. Areas to be dismantled are unoccupied.

2. Condition of metals structure and frames: Owner assumes no responsibility for actual condition of items or structure to be dismantled.

3. Transport salvaged items from site as they are removed.

5. Protections: Provide temporary barricades and other forms of protection as required to protect Owner's personnel and general public from injury due to selective dismantle work.

6. Erect temporary covered passageways when necessary as required by authorities having jurisdiction.

7. Protect from damage existing finish work that is to remain in place and becomes exposed during dismantle operations.

8. Remove pertinent protections from completed work.

9. Damages: Conduct selective dismantles operations and debris removal in a manner to ensure minimum interference with roads, streets, walks, and other adjacent occupied or used facilities.

11. Do not close, block or otherwise obstruct streets, walks or other occupied or used facilities without written permission from authorities having jurisdiction. Provide alternate routes around closed or obstructed traffic ways if required by governing regulations.

12. Utility Services: Maintain existing utilities indicated to remain, keep in service, and protect against damage during dismantle operations.

13. Environmental Controls: Use water sprinkling, temporary enclosures, and other suitable methods to limit dust and dirt rising and scattering in air to lowest practical level. Comply with governing regulations pertaining to environmental protection.

14. Do not use water when it may create hazardous or objectionable conditions such as flooding and pollution.

15. Protection of Existing Structure to Remain: The work of dismantle will be performed in such a manner that no portion of the structure to remain shall suffer damage or change except as may be necessary to connect new work to existing work.

16. Protection of Occupants of Existing Adjacent Buildings: The work of dismantle shall be executed in such a manner as to cause the least possible inconvenience to the surrounding premises shall be kept neat and clean to the satisfaction of the Owner.

18. In the event that the Contractor should encounter unforeseen conditions or utilities, which might be damaged by the work of dismantle; then he shall immediately notify the Owner conditions and shall suspend all dismantle work in the area affected until he receives written instructions from the Owner in regard to the action to be taken.

19. Salvageable Items: Carefully remove items indicated to be salvaged, and stored on the Owner's premises where indicated, unless otherwise directed.

PART 5: EXECUTION

1. Inspection: Prior to commencement of selective dismantle work, inspect areas in which work will be performed. Photograph existing conditions of structure surfaces, equipment or to surrounding properties which could be misconstrued as damage resulting from selective demolition work:

   File with Owner's Representative prior to starting work.

2. Preparation: Provide interior and exterior shoring, bracing or support to prevent movement, settlement or collapse of structures to be dismantle and adjacent facilities to remain.

3. Cease operations and notify the owner's Representative immediately if safety of structure appears to be endangered. Take precautions to

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support structure until determination is made for continuing operations.

4. Located, identify and stub off and disconnect utility services that are not indicated to remain.

PART 6: DISMANTLE

1. Method of Work: Perform selective dismantle work in a systematic manner.

2. Locate dismantle equipment throughout structure and promptly remove scrap to avoid imposing excessive loads.

3. Provide services for effective air and water pollution controls as required by local authorities having jurisdiction. Use water mist and other suitable methods to limit spread of dust and dirt. Comply with governing environmental-protection regulations.

4. For interior slabs on grade, they will remain.

5. Completely fill below-grade areas and voids resulting from dismantle work. Provide fill consisting of approved earth, recycled cement, gravel or sand, free of trash and debris, stones over 6" diameter, roots or other organic matter.

6. If unanticipated mechanical, electrical or structural elements which conflict with intended function or design are encountered, investigate and measure both nature and extent of the conflict. Submit report to Owner's Representative in written, accurate detail. Pending receipt of directive from Owner's Representative rearrange selective dismantle schedule as necessary to continue overall job progress without delay.

7. Disposal of Waste Materials: Remove debris, rubbish and other materials resulting from dismantle operations from the plant site. Transport and legally dispose of materials off site.

PART 7: RECYCLING MATERIALS

General: Separate recyclable dismantles material from other materials to the maximum extent possible. Separate recyclable materials by type.

1. Containers will be provided or other storage method approved for controlling recyclable materials until they are removed from project site.

2. Stockpile materials away from dismantle area.

3. Store components off the ground and protect from weather.

4. Transport recyclable materials off Owners property to the port to his final destination.

PART 8: DISPOSAL

1. All dismantle and recycled material will be transported by Homeca Recycling Inc.

2. Do not allow dismantle materials to accumulate on-site.

3. All material will be removed and transported in manner that will prevent spillage on adjacent surfaces and areas.

PART 9: CLEAN-UP AND REPAIR

1. Upon completion of work, remove tools, equipment and dismantle materials from the site. Remove pertinent protections and leave interior areas broom clean.

2. Repair dismantles performed in excess of that required. Return structures and surfaces to remain to condition prior to commencement of selective demolition work. Repair adjacent construction or surfaces soiled or damaged by selective dismantle work.

HOMECA

LOCALIZATION PLAN

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HOMECA

SITE PLAN

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HOMECA
RECYCLING
Environmental and Demolition Services

PLAN DE OPERACIONES

PERMISO DS-2 (RECICLAJE TEMPORERO)

DESMANTELAMIENTO ANTIGUAS FACILIDADES PUERTO RICO OLEFINS

PRESENTADO A:

Control de Contaminación de Terrenos

Junta de Calidad Ambiental

PO BOX 11488

San Juan PR 00910

POR:

HOMECA RECYCLING CENTER CO, INC

1575 Ave. Munoz Rivera PMB 120 Ponce PR 00717

Telefono: 787-841-2223

Fax. 787-840-1633

Emails: tamara.homeca@gmail.com / j.rivera1975@yahoo.com

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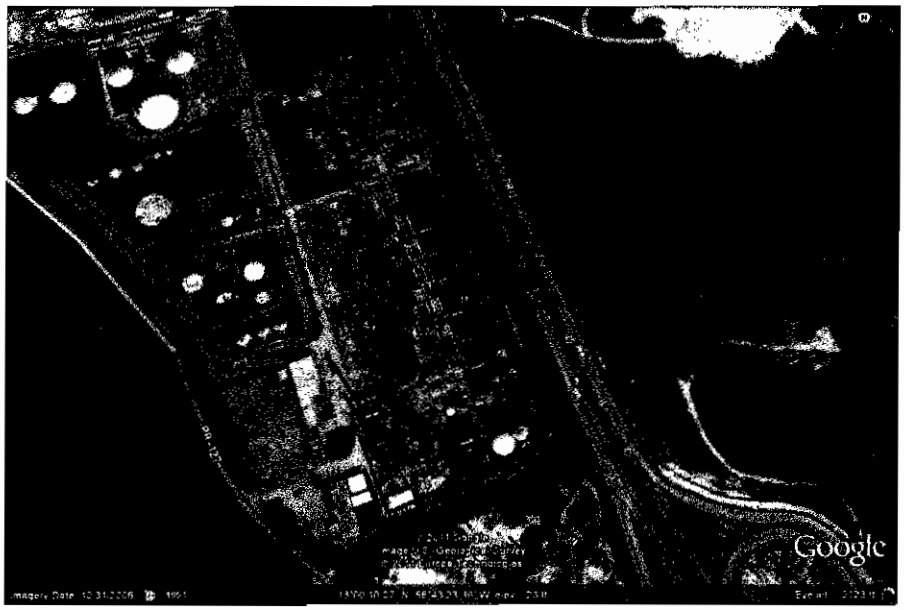
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HOMECA RECYCLIN CENTER CO, INC
PLAN DE OPERACIONES PERMISO DS-2 (Reciclaje Temporero)
PROYECTO DESMANTELAMIENTO ANTIGUAS FACILIDADES PR OLEFINS

1. INTRODUCCIÓN

Tallaboa Industrial Park (TIP) contrató nuestra empresa para ejecutar un proyecto de mitigación ambiental y desmantelamiento de las estructuras que componen las Antiguas Facilidades de Puerto Rico Olefins (PRO) (Ver Foto 1). Estas estructuras están en total abandono desde 1987 y representan un riesgo de salud y seguridad tanto al ambiente como a los transeúntes y residentes cercanos. Homeca Recycling Center Co, Inc (HOMECA-empresa con vasta experiencia en el campo del reciclaje y mitigación ambiental) llevo a cabo una inspección de la facilidad donde determinó que la misma contiene asbesto proveniente del material aislante, el cual está débil y se ha desprendido de la estructura. En adición, observó que tiene partes de metal expuestas que han sufrido oxidación, lo cual representa un riesgo a la seguridad de los que transitan en la PR # 2. Esta facilidad ha sido blanco de vandalismo por parte de distintas personas lo que pone en riesgo la salud de estos y del personal que labora cerca a la facilidad. Así mismo, estas facilidades se han convertido en un estorbo público, afectando la visibilidad de nuestra costa sur desde la PR # 2. A consecuencia de los antes mencionado, se llevara a cabo un proceso de desmantelamiento de las estructuras una vez estas estén libres de asbestos.

Foto 1. Estructura a mitigar y desmantelar



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2. PROPÓSITO DEL PLAN DE OPERACIONES

El propósito de este Plan de Operaciones es describir el alcance de las operaciones ejecutadas en el proyecto, así como, establecer la metodología del proceso y consideraciones ambientales y de salud y seguridad. En este Plan también se establecen las medidas que serán tomadas para salvaguardar vida, ambiente y propiedad dentro del proyecto mientras se opera o en caso de emergencia o desastre natural.

Con este Plan se pretende cumplir con todas las leyes, estatutos, reglas y guías aplicables de cualquier agencia o autoridad pública que tenga jurisdicción o inherencia sobre las operaciones de nuestras instalaciones. Además, se pretende el cumplimiento de cualquier reglamento aplicable, ya sea local, federal o estatal incluyendo la política pública del gobierno de limpiar, desmantelar las facilidades abandonadas y re-usar los terrenos existentes que hayan sido contaminados o que hayan sufrido daños debido a las operaciones de las industrias petroquímicas existentes.

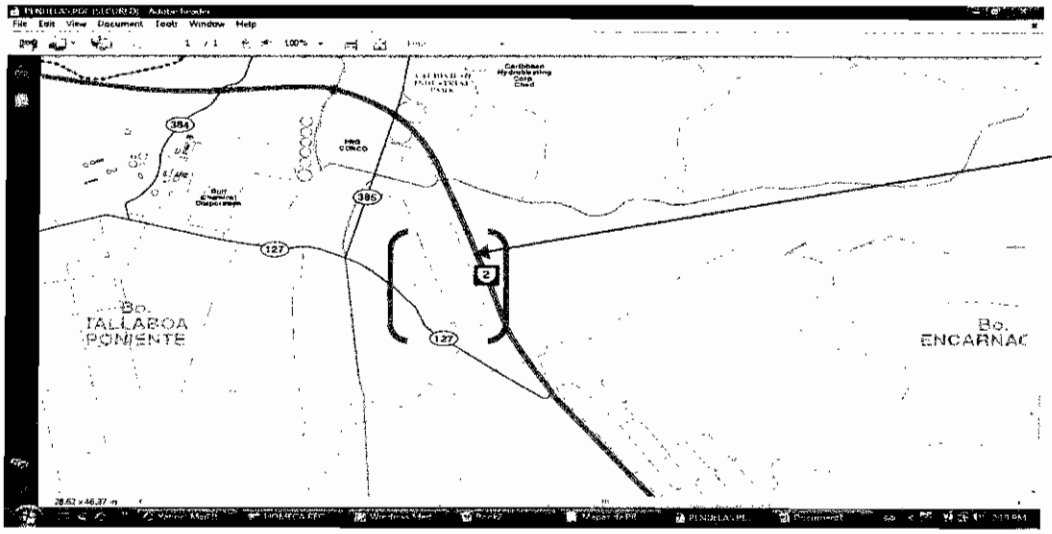
3. METODOLOGÍA / DESCRIPCIÓN DEL PROCESO

Esta sección describe detalladamente el procedimiento utilizado para llevar a cabo la disposición del material desmantelado por medio del reciclaje.

a. Descripción de las Facilidades y Horario de Trabajo

Las Antiguas Facilidades de PRO están localizada en la carretera # 127 Km. 19.1 Bo. Tallaboa Poniente Sector El Pueblito del Municipio de Peñuelas (Ver Foto 2). El área a trabajar en el predio es de una cabida superficial aproximada de 95,441.3537 pies cuadrados, los cuales eran utilizados como una planta petroquímica y contaban con gran cantidad de material aislante con contenido de asbestos, el cual será removido antes de desmantelar el metal para reciclarlo. Los trabajos se llevaran a cabo de Lunes a Vienes en un horario de 7:00 AM – 4:00 PM. En ocasiones este horario podría ser modificado para satisfacer las necesidades de nuestro cliente o por alguna situación que así lo amerite.

Foto2. Mapa de Localización



b. Clasificación:

Básicamente los trabajos se clasifican en tres fases:

Fase 1: Mitigación Ambiental – Para completar esta fase HOMECA radicó ante la división de Calidad de Aire de la Junta de Calidad Ambiental un Permiso General para Manejo de Material con Contenido de Asbesto, con número de permiso PG-ASB-57-0910-0125-RC, el cual venció el 27 de septiembre de 2011 y se radicó un nuevo permiso con número PG-ASB-57-0911-0112-RC, el cual tiene fecha de vencimiento del 30 de septiembre de 2012.

Fase 2: Desmantelamiento de Estructuras de Metal - Para los trabajos de desmantelamiento HOMECA radico un Permiso Demolición ante la Oficina de Gerencia de Permisos (OGPe), el cual fue otorgado el pasado 29 de abril de 2012. A este permiso se le otorgo el número de caso: 2012-009772-PDE-05800. (En el Anejo 1 encontrara copia del permiso junto con la Determinación De Cumplimiento Ambiental 4B-3).

Fase 3: Disposición de las Estructuras de Metal – La disposición de las estructuras será por medio del reciclaje de las mismas. Estas actividades están avaladas por la Autoridad de Desperdicios Sólidos (ADS) (Ver Anejo 2). Para pode llevar a cabo estas actividades

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se someterá ante la Junta de Calidad Ambiental (JCA) un Permiso para Operar una Instalación de Desperdicios Sólidos No Peligrosos (DS2). Esto con el fin de reciclar el material desmantelado de la estructura.

c. **Descripción del Proceso:**

i. **Fase 1 – Mitigación Ambiental**

Se removerá, el asbestos, utilizando herramientas manuales para los diferentes materiales, humedeciendo con agua enmendada. Una vez el material haya sido removido, se utilizarán los sistemas de recogido y descontaminación de los diferentes materiales según la regulación para este tipo de trabajo. Se removerán materiales no desmenuzables y desmenuzables de las diferentes áreas.

Los siguientes pasos son aplicables al proyecto:

- Se manejará el asbesto en estricto acuerdo con las regulaciones estatales y federales y cualquier agencia gubernamental que pueda tener jurisdicción.
- El personal contratado en la remoción o limpieza utilizará el equipo de seguridad necesario en todo momento que esté en el área restringida o área de trabajo.
- Se establecerán áreas restringidas de trabajo utilizando cinta barricada de advertencia para evitar que personas ajenas tenga acceso al mismo. Se utilizará también carteles de advertencia según descrito en la reglamentación.
- El comer, beber y/o fumar dentro del área de trabajo estará prohibido para todo el personal.
- Todo trabajo será en estricto cumplimiento a este plan de trabajo.
- Solo serán asignados al proyecto personal debidamente entrenado y certificado ante la JCA para estos trabajos de asbestos. Se mantendrá un supervisor o persona competente en el área de trabajo en todo momento.
- Se contratarán los servicios de un laboratorio certificado para las muestras de (aire) que se llevaran a cabo antes, durante y al finalizar para controlar el nivel de exposición de los empleados y limpieza final.

— Se contratara los servicios de una empresa de transportación autorizada para disponer los desperdicios en un sistema de relleno sanitario también autorizado por la JCA.

Para detalles sobre las tareas de mitigación hacer referencia al Plan de Trabajo incluido en el Permiso General para Manejo de Material con Contenido de Asbesto con número PG-ASB-57-0911-0112-RC.

En cumplimiento con la condición de PGASB # 32 y 48, Homeca, mantiene registro y archivo de:

1) Bitácoras de trabajo diario
    a. En las bitácoras de trabajo diario se muestra el detalle de áreas trabajadas, personal y equipo utilizado para llevar a cabo las tareas.
2) Cadenas de Custodia
    a. En estas hojas se documenta el manejo de las muestras de niveles al comienzo de trabajo ("backgrounds"), muestras para el monitoreo de aire y muestras de niveles de limpieza ("Clearance") desde su toma hasta la lectura de las mismas para la obtención del resultado.
3) Resultados de Muestras Tomadas.
    a. Copia de los resultados son publicados diariamente en el tablón de edictos que da a las oficinas del proyecto.

Actualmente esta fase esta a un 90% de completada.

ii. Fase 2 – Desmantelamiento de las Estructuras de Metal

Los trabajos de desmantelamiento se llevaran a cabo tomando las medidas para salvaguardar la seguridad de los vecinos y transeúntes de la facilidad. Básicamente se llevaran los trabajos de la siguiente forma:

— Las actividades de desmantelamiento se llevaran a cabo una vez la estructura a trabajarse este libre de material con contenido de asbesto por medio de la toma de muestras de niveles de limpieza ("Clearance").

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— Se removerán todos componentes de metal ferroso y no ferroso (marcos, escaleras, chimeneas, bombas, almacenes, equipos) de la estructura existente. Se denominaran metales ferrosos aquellos materiales maleables que contienen como elemento base el hierro y la aleación del hierro con carbono denominada como acero. Los metales no ferrosos serán aquellos que no contienen hierro o lo contienen en menos de un (-1) %. Algunos ejemplos de metales lo son: cobre, estaño, plomo, bronce, zinc, cromo, níquel, cobalto, aluminio, titanio, acero inoxidable y/o cualquier aleación de estos. Se considerara chatarra el conjunto de trozos de hierro descartamos como desecho, lo cual puede incluir partes de equipos descartados como tal.

— Se protegerá, lo más posible, toda otra estructura que no sea de metal; por lo tanto, se espera no afectar las áreas de cemento de la facilidad.

— Todos los trabajos serán llevados a cabo mediante cortes tipo soldadura con oxigeno y gas junto con excavadoras con "grapple" y tijera hidráulica.

— Las chimeneas serán bajadas utilizando Grúa de 45,000 toneladas y cortadas en piezas pequeñas para su reciclaje.

— Todos los metales ferrosos serán preparados en tamaños de 4' x 2' para su reciclaje por medio de la exportación.

— Los metales no ferrosos serán reciclados (exportados) directamente.

— Todos los desperdicios generados que no sean para reciclaje serán dispuestos como basura común el sistema de relleno sanitario autorizado.

— Se tomaran las medidas de seguridad necesarias al realizar los trabajos de forma segura para evitar incidentes por fuego o explosiones.

— Se notificó sobre el proyecto al Centro de Coordinación de Excavaciones o Demoliciones de la Comisión de Servicio Público. El número de control es el 2012-861. (Ver Anejo 3 para notificación junto con croquis de las estructuras).

Para detalles específicos favor de referirse al Plan de Trabajo de Desmantelamiento.

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iii. Fase tres: Disposición de las Estructuras de Metal

Esta fase podría ser llevada a cabo simultanea a la fase # 2 pero nunca antes de haber terminado la fase #1.

Clasificación:

Una vez el material es extraído de la estructura, será segregado y debidamente clasificado para luego ser colocado en contenedores de 40 pies para ser exportado directamente a las facilidades del muelle de San Juan para su reciclaje mediante la exportación de los mismos a una Planta de Fundición. El material puede ser clasificado en una de las siguientes categorías: (1) Metal Ferroso Preparado, (2) Metal Ferroso No Preparado o Mixto, (3) Metales No Ferrosos.

Descripción de Categorías para Clasificar Material Recibido:

- **Metal Ferroso Preparado:** Se clasifica bajo esta categoría todo material de acero cuyas dimensiones *NO* son mayores de 2' x 4'.
- **Metal Ferroso No Preparado:** Se clasifica como metal ferroso no preparado todo material de acero cuyas dimensiones *SON* mayores de 2' x 4' o es liviano.
- **Metales No Ferrosos:** Esta categoría incluye metales diferentes de acero tales como: Aluminio, Cobre, Acero Inoxidable (Stainless Steel), Bronce, etc.

Descripción del Proceso:

Una vez los metales se generen serán cortados utilizando una excavadora con tijera hidráulica para ser llevados a un tamaño optimo para su exportación. En caso de que las piezas sean grandes y no puedan ser cortadas por la tijera serán cortadas por medio de corte con oxigeno-gas y así poder obtener las dimensiones adecuadas.

Homeca no espera llevar actividades de almacenamiento ni la utilización de maquinaria para el proceso de metales (trituradora, cortadora, compactadora). En el proyecto tendremos contenedores vacios los cuales serán cargados con los metales, utilizando un montacargas telescópico (Skytrack), a medida que estos sean generados como producto

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del desmantelamiento. Los metales generados se depositaran momentáneamente conjunto al área de carga mientras el contenedor es llenado.

Los metales no ferrosos serán colocados directamente a un contenedor para exportación ya que en la mayoría de las ocasiones tiene un tamaño de fácil manejo.

Una vez los contenedores estén llenos, serán transportados hasta las facilidades de embarque (muelle) para exportación (reciclaje) fuera de Puerto Rico (fundición). Todos los transportistas tendrán permiso de la JCA para la transportación de los mismos (DS-1).

Se mantendrá un registro del material procesado basado en lo transportado para exportación. La cantidad se obtendrá mediante la diferencia de peso entre el contenedor vacio y cargado. Las boletas de peso serán generadas en las facilidades de Procaribe u Homeca Ponce Playa en caso de que la primera tuviera desperfectos o inconvenientes. Todas nuestras balanzas están certificadas por el Departamento de Asuntos al Consumidor (DACO).

d. <u>Personal Utilizado:</u>

Cada fase contara con personal debidamente calificado para los trabajos a llevar a cabo. Siempre habrá un supervisor presente para corroborar que todo marche según este Plan de Operaciones y los Planes de Trabajo preparados. Adicional, tenemos personal administrativo quien documentara y archivara lo relacionado al proyecto. Homeca cuenta con personal clave encargado del control de calidad que podría visitar las instalaciones para verificar si hay irregularidades, las cuales se mejoraran o corregirán inmediatamente.

4. MEDIDAS PARA EL CONTROL DE CONTAMINACIÓN AMBIENTAL

Esta sección describe las medidas a ser implementadas para prevenir contaminación ambiental alguna que pueda surgir como consecuencia directa de nuestras operaciones.

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a. Control de Erosión y Sedimentación

Tanto el área de acceso principal a las instalaciones como el área de rodaje de vehículos esta asfaltada por lo que no debe surgir erosión del terreno ni flujo de sedimentación a vías o áreas públicas. Sin embargo, cualquier sedimentación que acceda las vías públicas será retirada de inmediato.

b. Polvo Fugitivo

De surgir emisiones al aire por polvo fugitivo serán controladas regando agua en forma de rocío. Se implementará el uso de otras prácticas de ingeniería en caso de que sea necesario.

c. Control de Vectores o Plagas

De ser necesario, se contratará compañía especialista en el control de plagas para fumigar el área frecuentemente y colocar en sitios estratégicos trampas para roedores y mangostas.

d. **Contaminación por aceites o combustible**

Las bombas y equipos de las estructuras están libres de aceites y combustibles. En la facilidad no se almacenara combustible o aceites en grandes tanques o contendores. Solo habrá aceite y combustible de los equipos a utilizarse. El combustible diesel de la maquinaria, será por medio camión de llenado independiente. Todos nuestros equipos son inspeccionados diariamente para verificar que no tengan deterioro y como consecuencia haya contaminación por derrames. En caso de que sea necesario algún aceite o grasa para el equipo, el mismo será llevado al proyecto desde otra de nuestras facilidades.

HOMECA trabaja con un equipo y materiales que brindan completa protección y seguridad ambiental en todo momento, de esta manera puede controlar rápida y efectivamente un derrame de emergencia. Entre los materiales que tenemos disponibles en nuestras facilidades están: arena, medias y paños absorbentes, palas, cepillo, bidones (drones), bolsas, plásticos.

En adición, el personal que trabaje en la limpieza debe estar debidamente protegido contra los peligros potenciales y debe estar adiestrado, es por ello, el supervisor explica el procedimiento a seguir junto con la localización de los materiales y equipos. El propósito del Equipo de Protección Personal es proteger el sistema respiratorio, piel, ojos, cara, manos, pies, cabeza, cuerpo y los oídos. HOMECA está preparado para combatir cualquier derrame con el equipo adecuado de Protección Personal.

e. Control de Escorrentías

Durante las operaciones se tomarán las medidas necesarias para evitar que residuos de materiales orgánicos e inorgánicos tales como: aceites, combustibles, residuos de metales, sedimentación u otras sustancias químicas puedan ser arrastradas por las escorrentías y ganen acceso a cuerpos de agua o al sistema pluvial, según se estable en Código Regulaciones Federales 40 CFR Parte 122 y la sección 402(p) del "Clean Water Act".

f. Disposición de otros Desperdicios Sólidos

Se mantendrá un contrato con compañía certificada para la recolección de desperdicios sólidos no peligros, específicamente basura común. Para el asbesto se obtuvo una aprobación para la disposición el sistema de relleno sanitario de Ponce (Allied Waste) (Ver Anejo 4). Cualquier otro desperdicio será caracterizado y dispuesto según lo establece lo requiera la ley.

5. SITUACIONES DE EMERGENCIA

Se tomarán las medidas y precauciones necesarias para salvaguardar la seguridad, proveer protección contra daños, lesión o pérdida a todos los empleados en el trabajo, al ambiente y a cualquier persona que pueda verse afectada. Se tomarán medidas para el control y prevención de incendios localizando estratégicamente extintores de fuego en áreas identificadas. También se tomarán medidas para salvaguardar vida, propiedad, materiales, ambiente y equipos de trabajo dentro de las instalaciones en caso de emergencia o desastre natural, el supervisor adiestrara al personal sobre el punto de

reunión en caso de una emergencia, así como, del procedimiento a seguir en caso que cualquier situación ocurriera.

Se instalarán y se mantendrán letreros de precaución y encerramiento de áreas de alto riesgo.

Se mantendrá en las facilidades un listado con todos los teléfonos de emergencia de las distintas agencias y un listado con el nombre, dirección y teléfono de las instalaciones de salud y hospitales más cercanos. (Ver Anejo 5)

Los equipos de seguridad básica para los empelados lo serán: calzado de seguridad, capacete, guates, chaleco reflector, protección de ojos y oídos. Este equipo de seguridad dependerá de las labores que cada empleado este realizando.

Si a pesar de las medidas de seguridad mencionadas anteriormente ocurriera algún incidente o accidente, el supervisor tiene la instrucción de comunicarse con la Agencia pertinente. Luego se comunicara con nuestra oficina e informara el tipo de incidente o accidente, acciones tomadas, personas involucradas y agencias notificadas. Inmediatamente la situación esté bajo control se completará un reporte de incidente (Ver Anejo 6). Si un empleado se lesiona el supervisor determinara si será llevado al hospital más cercano o si llamara al sistema de emergencias 911.

6. CUMPLIMIENTO Y REVISIÓN DEL PLAN DE OPERACIONES

Copia de este Plan de Operaciones permanecerá en las instalaciones en todo momento. El mismo estará accesible para ser revisado por empleados o agencias con inherencia en nuestras operaciones, de manera que se pueda consultar como referencia para determinar el procedimiento correcto a ser ejecutado en una situación determinada o en caso de accidentes o emergencias.

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a. Revisión del Plan de Operaciones

Este Plan será revisado de la siguiente manera:

- Una vez al año.
- Cada vez que ocurran cambios en leyes, estatutos, regulaciones y guías aplicables.
- Cada vez que a consecuencia de un accidente, situación de emergencia, desastre natural o evento significativo se demuestre que este plan no cumplió su propósito.

Será responsabilidad del Gerente de Proyecto revisar anualmente este Plan junto con personal del Departamento de Salud y Seguridad y el Departamento de Control de Calidad.

b. Cumplimiento

Todos los empleados de Homeca Recycling estarán obligados a cumplir con lo establecido en este Plan en todo momento.

Se realizarán inspecciones periódicas para garantizar el cumplimiento de este Plan. Estas inspecciones estarán debidamente documentadas y los resultados de las mismas estarán en todo momento a disposición del personal y de cualquier agencia que tenga inherencia.

De encontrarse alguna irregularidad la misma deberá ser corregida de inmediato. Se someterá un informe con las irregularidades encontradas y las acciones tomadas para corregir las mismas. Luego se realizará otra inspección para garantizar que las acciones correctivas implementadas fueron las adecuadas y no se debe implementar ninguna otra medida o controles adicionales.

Posteriormente se deberá realizar la revisión en la sección o secciones correspondientes en este Plan de Operaciones.

1575 AVE. MUNOZ RIVERA PMB 120 PONCE PR 00717-0211 ▪ TEL. (787) 841-2223 ▪ FAX 787-840-1633

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7. REGISTRO DE REVISIONES Y ACTUALIZACIONES

Una copia de este Plan y todas las revisiones subsiguientes permanecerán en las facilidades y oficinas administrativas. Copias adicionales de este plan estarán disponibles a través del Gerente de Proyecto.

Este Plan será revisado siempre que sea necesario según estipulado en la Sección 6.a del Plan de Operaciones.

Realizado por: Tamara Echevarría

Firma: _____

Aprobado por: Ing. Jose Rivera

Firma: _____

En,
MAYO 2012-05-08

Fecha	Sección Modificada	Modificaciones o Correcciones	Revisado por

001605

HOMECA

LISTADO EMPLEADOS MITIGACION

NOMBRE EMPLEADO	DIRECCION RESIDENCIAL	TELEFONO
José M. Miranda Santiago	Calle Mayor Cantera #184 Ponce PR	(787)901-3311
Ederick Caquias Velázquez	Urb. Alturas de Peñuelas I Calle 1 H-3 Peñuelas PR	(787)685-0043
Amador Medina Ramos	Empleado Inactivo; la información solicitada se estará proveyendo más adelante.	
Ferdinand Alvarado Rodríguez	Bo. Maraguez Sector Los Fondos Carretera 139 KM 8.9 Ponce PR	(787)942-3372
Cristóbal Salcedo Rodríguez	Barriada Ferrán Calle B #53 Ponce PR	(787)298-6873
Alexis J. Rivera Roble	Urb. Santa Teresita Calle 12 AQ8 Ponce PR	(787)298-3890
Geraldo Collazo Ramos	Pueblito Nuevo Calle 4 Int. 22 Ponce PR	(787)239-6652
Rubén Negrón Camacho	Res. Villa Pampanos Edificio 24 Apt. 226 Ponce PR	
José Delgado	Empleado Inactivo; la información solicitada se estará proveyendo más adelante.	
Eliseo Caraballo Martínez	Bo. Jaguas Sector Planta 1 Peñuelas PR	(787)509-7102
Eligio Ortiz Rodríguez	Bo. Barreal Sector Juncos Peñuelas PR	(787)596-8339
Jorge Velázquez Irizarry	Tallaboa Poniente Sector Juncos Peñuelas PR	(787)202-9312

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José Hernández Sanabria	Res. Ramos Antonini Edificio 29 Apt. 275 Ponce PR	(787)438-6963
Juan L. Rodríguez Rivera	Bo. Los Llanos Parcela Vieja Calle 1 99A Coamo PR	(787)387-0527
Norma Collazo Ramos	Ext. Santa Teresita Calle 33 BL75 Ponce PR	(787)373-6722
Frank Jorge Cabrera	Bo. San Antón #82 Ponce PR	(787)466-6312
Jorge L. Torres Matos	Alturas II Bo. Cuevas Peñuelas PR	(939)358-5055
Luis I. Robles García	Bda. Guaydia Dr. M. Zavala #169 Guayanilla PR	(787)538-S683
Juan H. López Candelario	Bo. Santo Domingo II Casa #9 Peñuelas PR	(787)472-3702

HOMECA

LISTADO EMPLEADOS DEMOLICION

NOMBRE EMPLEADO	DIRECCION RESIDENCIAL	TELEFONO
Efraín Colon Zayas	Bo. Los Llanos Sec. Valle Hermoso #32 Coamo PR	(939)265-2159
Alexis J. Rivera Roble	Urb. Santa Teresita Calle 12 AQ8 Ponce PR	(787)298-3890
Julio Meléndez Miranda	Sector 4 Calles Calle Berdum #1348 Ponce PR	(787)397-0663
Aneudy Berrios Rodríguez	Bo. Playa Cortada Calle Progreso #122 Santa Isabel PR	(787)619-0022

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HOMECA
RECYCLING
Environmental and Demolition Services

Plan de Trabajo para Remoción y Disposición de Materiales con Contenido de Asbestos (ACM)

Proyecto:

Desmantelamiento Antiguas Facilidades Olefins
Peñuelas, Puerto Rico

Preparado por:

Homeca Recycling Center Co, Inc
PO BOX 231
Mercedita, PR 00715

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Tabla de Contenido

A. Información sobre el proyecto

B. Descripción de los trabajos

C. Equipo de protección personal requerido

D. Procedimientos para la remoción de Asbestos

- Área de Trabajo
- Área de descontaminación
- Área limpia

E. Requerimientos de aislamientos del área de trabajo

F. Descripción de remoción de Materiales con contenido de ACM Thermal System Insulation (TSI) and asbesto cemento (Transite panel)

G. Descontaminación del área de trabajo

H. Requisitos de transportación y disposición final de los desprecios y Asbestos asbesto

A. INFORMACIÓN SOBRE EL PROYECTO

Proyecto	Desmantelamiento de la Antigua Planta Olefins
Ubicación del Proyecto:	Tallaboa Industrial Park Carr. 385 Km 5.4 Bo. Tallaboa Poniente, Peñuelas PR 00624
Descripción del Proyecto	Remoción de materiales con contenido de asbestos
Fecha de Comienzo & Terminación	Hacer referencia al permiso aprobado
Duración del trabajo	12 meses (1 año)
Dueño del Proyecto	Pro-Caribe Contacto: Lic. Ramón González Simounet Tel. (787) 836-2026
Contratista General	Homeca Recycling Center, Inc.
Información Contratista General	**Dirección Postal:** 1575 Ave. Munoz Rivera PMB 120 Ponce, PR 00717-0211 **Dirección Física:** Calle Salmón # 1 Playa de Ponce Ponce, PR 00731 Tel. 787-689-6150 Fax: 1-800-491-1218
Facilidad de Disposición de Desperdicios	Relleno Sanitario Ponce Republic Waste Services **Dirección Física** Bo. La Cotorra Ave. Baramaya Final Ponce, PR 0031 **Dirección Postal** PO Box 7104 Ponce, PR 00732-7104 Contacto: Sra. Wanda Valenzuela Tel. (787) 841-7775 Permiso: IDF-58-0008

Transportista de Desperdicios	Envirorecycling 1508 Paseo Fagot Suite 3 Ponce, PR 00716 Tel. 787-458-3736 Contacto: Jose Velez	Enviromental & Transport 1575 Ave. Munoz Rivera PMB 372 Ponce, PR 0071 Tel. 787-813-0004 Contacto: Jayline Correa
Persona que preparó el Plan de Trabajo	Carlos E. Ocasio Certificación: ASB-1012-0579-PD Vence: 24 sept 2013	
Persona Responsable del Proyecto	Carlos O. Sánchez Delgado **Dirección Física:** Bo. Certenejas II Carr. 172 Km 7.5 Interior Cidra, PR 00739 **Dirección Postal:** PO BOX 231 Mercedita, PR 00715 Tel. (787) 841-2223 / (787) 380-2912	
Compañía a Cargo Monitoreo de Aire	1. Altol Environmental PO Box 359 Mercedita, PR 00715 Tel. 787-835-4242 Fax. 787-835-2004	
Facilidad de Laboratorio	En caso de ser necesario se estará utilizando el laboratorio EMSL Analytical	
Cantidad de ACM a Manejarse	800 yardas cúbicas aproximadamente	

B. DESCRIPCIÓN DE LOS TRABAJOS

Objetivo y Alcance del Trabajo

El objetivo de este plan de trabajo es describir el procedimiento de remoción y disposición de material con contenido de Asbesto. El proyecto consiste de la remoción de materiales con contenido de asbestos (ACM) en la Antigua Planta Olefins localizado en el pueblo de Penuelas PR. El trabajo incluye la remoción de 800 pies lineales de"TSI" insulación termal y unos 80 pies cuadrados de "Transite" planchas de asbesto cemento. La insulación termal y las planchas de asbesto cemento se encuentra ubicado alrededor de la planta. La insulación se encuentra en diferentes diámetros y es utilizada como un aislante en las tuberías de la planta. El "transite" se utilizó para techar las áreas donde se encontraban los paneles de control de la planta.

Métodos

Se removerá utilizando herramientas manuales para los diferentes materiales, humedeciendo con agua enmendada. Una vez el material haya sido removido, se utilizarán los sistemas de recogido y descontaminación de los diferentes materiales según la regulación para este tipo de trabajo. Se removerán materiales no desmenuzables y desmenuzables de las diferentes áreas. El material a removerse es aproximadamente de 550 yardas cúbicas de material.

Los siguientes pasos son aplicables al proyecto:

Se manejará el asbesto en estricto acuerdo con las regulaciones estatales y federales y cualquier agencia gubernamental que pueda tener jurisdicción.

El personal contratado en la remoción o limpieza utilizará el equipo de seguridad necesario en todo momento que esté en el área restringida o área de trabajo.

Se establecerán áreas restringidas de trabajo utilizando cinta barricada de advertencia para evitar que personas ajenas tenga acceso al mismo. Se utilizará también carteles de advertencia según descrito en la reglamentación.

El comer, beber y/o fumar dentro del área de trabajo estará prohibido para todo el personal.

Se someterá un plan de trabajo para la mitigación de asbesto a la Junta de Calidad Ambiental para así obtener su aprobación.

Todo trabajo será en estricto cumplimiento a este plan de trabajo.

Solo serán asignados al proyecto personal debidamente entrenado y certificado ante la JCA para estos trabajos de asbestos. Se mantendrá un supervisor o persona competente en el área de trabajo en todo momento.

Se contratarán los servicios de un laboratorio certificado para las muestras de (aire) que se llevaran a cabo antes, durante y al finalizar para controlar el nivel de exposición de los empleados y limpieza final.

C. EQUIPO DE PROTECCIÓN REQUERIDA

El personal que realiza los trabajos de remoción de asbesto usará equipos de protección de las vías respiratorias, protección para los ojos y ropa para protección epidémica apropiadas para trabajar en condiciones adecuadas.

Los equipos de protección respiratoria a utilizarse estarán de acuerdo con los requisitos descritos en el Código Federal 29 CFR 1926.1101. Luego del monitoreo inicial de aire se procederá a asignar protección respiratoria de acuerdo a la concentración de partículas de asbesto en el aire utilizado la tabla adjunta. Esto será para el personal que este manejando las bolsas con el desperdicio conteniendo material con asbesto. Los respiradores tanto de presión negativa o positiva que se utilizan en el proyecto estarán provistos con cartuchos de combinación con filtros para vapores orgánicos y de alta eficiencia (HEPA) para partículas.

A cada trabajador se le asignará un respirador para el uso exclusivo de este. No se permitirá el intercambio de respiradores entre los trabajadores. Quedará terminantemente prohibido el uso de respiradores desechables o de mascaras contra polvo ("dust. masks"). A cada trabajador se le requerirá conducir con un cotejo de ajuste de su mascara ("fit check") antes de entrar al área de trabajo. Esto se hará cuantas veces sea necesario. El equipo de protección respiratoria se limpiará, se descontaminará y se probará diariamente. Solamente se utilizarán respiradores aprobados por (NIOSH) y (MSHA). Además, de la protección respiratoria, los trabajadores usarán gafas de seguridad, guantes de goma y ropa desechable que cubra todo el cuerpo. La ropa desechable, incluyendo los guantes y filtros de los respiradores, serán descartada como material que contiene asbesto (ACM) para mayor seguridad. El equipo de seguridad restante será descontaminado en las duchas que estarán en el área de descontaminación.

A continuación se presenta la tabla donde se explica cual será la protección respiratoria asignada a los trabajadores de acuerdo a la concentración de partículas de asbesto en el aire.

Cada vez que se utilice un respirador se deberá establecer un programa para el uso de los mismos, según lo indicado en el 29 CFR 1910.134

El visto bueno para la recuperación final del área se dará cuando la muestra final del aire tomada ("clerance"), después de concluir los trabajos, resulte en una concentración de fibras de asbesto de 0.005f/cc (fibras por centímetro cúbico) o menos, según lo recomendado por las Regulaciones.

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NIVELES DE PROTECCIÓN RESPIRATORIA

NIVEL	*CONCENTRACIÓN DE ASBESTO EN EL AIRE*	*RESPIRADOR REQUERIDO*
1	No más de 1 f/cc (o sea 10 veces el PEL)	Media mascarilla tipo purificador aire con filtros de alta eficiencia
2	No más de 5 f/cc (o sea 50 veces el PEL)	Respirador tipo purificador de aire que cubra todo el rostro con filtros de alta eficiencia.
3	No más de 10 f/cc (o sea 100 veces el PEL)	1. Cualquier respirador purificador de aire motorizado equipo de filtros de alta eficiencia. 2. Cualquier respirador del tipo presión positiva (suministrado de aire) operado en flujo continuo.
4	No más de 100 f/cc (o sea 1000 veces el PEL)	Respirador de suministro de aire y que cubra todo el rostro operado en demanda de presión.
5	Más de 100 f/cc (más de 1000 veces el PEL) o cuanto se desconoce la concentración.	Respirador de suministro de aire que cubra todo el rostro operado en demanda de presión positiva y aire auto -contenido.

Cada vez que se utilice un respirador se deberá establecer un programa para el uso de los mismos, según lo indicado en el 29 CFR 1910.134

[1]Referencia de OSHA 29 CFR 1926.1101
NOTA: PEL significa nivel de exposición permitido, de las siglas en inglés "Permissible Exposure Limit" establecido por OSHA. El PEL de asbestos es 0.1 f/cc.

D. PROCEDIMIENTO PARA LA REMOCIÓN DE ASBESTO

Se deberá notificar por escrito a la Agencia Federal de Protección Ambiental (EPA) diez (10) días antes de comenzar los trabajos de remoción. Para iniciar los trabajos de preparación del área, se tomaran muestras de "Back-ground" para determinar el nivel de exposición del área.

El paso siguiente será instalar barreras de polietileno reforzado creando un perímetro de cuatro altas paredes dejando el techo abierto para así mantener todas las tuberías dentro de este perímetro para su remoción. En adición, prevenir que el aire pueda ganar acceso a las áreas a fin de que haya control de las áreas de trabajo dentro de perímetro cerrado en todo momento y manteniendo cerrado alrededor de cada rack de tuberías donde se estará removiendo toda la insulación controlando el aire y las fibras generadas en todo momento. Las planchas de asbesto cemento se removerán "open air"

Antes de comenzar las actividades de remoción se establecerán tres (3) áreas de control de acceso al encerramiento:

- Área de Trabajo

Todo trabajo de remoción se llevará a cabo en esta área. El personal que entre a esta área usará todo el equipo de protección y deberán estar certificados para el manejo del MCA. Toda entrada y salida de esta área se hará a través del área de descontaminación.

- Área de descontaminación

El personal, equipo y herramientas que salga del área de trabajo pasaran por el área de descontaminación. Para este proceso se instalaran duchas equipadas con un sistema para la recolección y filtración de las aguas servidas (8 "micro filtres) generadas en el proceso de remoción y descontaminación.

- Área Limpia

Esta área sirve de acceso al área de descontaminación. Es en el área limpia donde los trabajadores se cambiaran sus ropas domesticas y se pondrán la ropa y equipo de protección (incluyen los respiradores). Esta área tendrá un lugar designado a equipo para almacenar los artículos personales incluyendo la ropa doméstica de los trabajadores. Además, es también en este lugar donde se

mantendrán los equipos, materiales, ropa desechable de protección y otros artículos limpios y sin usar para ser provistos inmediatamente de ser necesario.

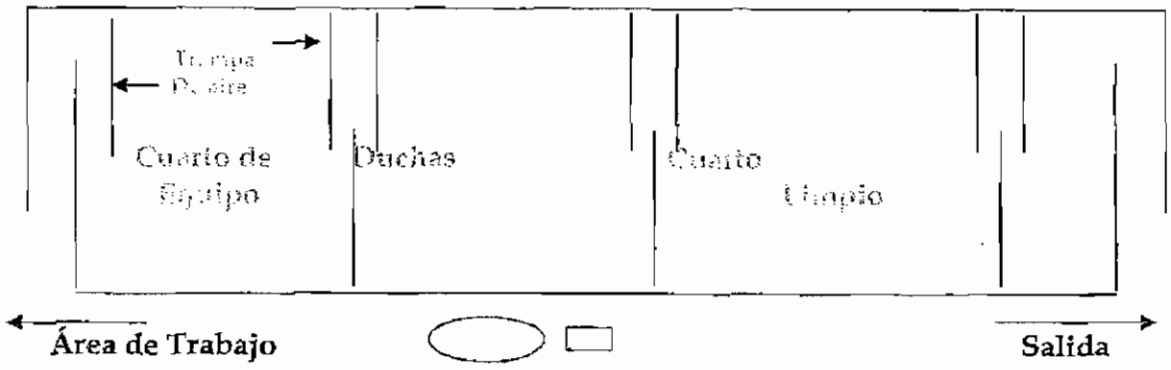
Antes de comenzar con los trabajos de remoción, las áreas circundantes al proyecto se rotularán advirtiendo a cualquier persona que por alguna razón ganará acceso a las áreas sobre los trabajos de remoción de asbesto que allí se estarán realizando. Los rótulos se localizarán en lugares conspicuos a través de los cuales se pueda ganar acceso al área del proyecto. Los rótulos a utilizarse serán de acuerdo a los especificados en el Código Federal 29 CFR 1926.1101 (k) (6) (ii).

PELIGRO
ASBESTO
RIESGO DE CANCER Y ENFERMEDAD PULMONAR

Personal Autorizado Solamente

SE REQUIERE RESPIRADORES Y EQUIPO DE PROTECCIÓN PERSONAL EN ESTA AREA.

Modelo Típico de Sistema de Descontaminación



Sistema de Filtración

E. REQUERIMIENTO DE AISLAMIENTO DEL AREA DE TRABAJO

El área de trabajo se cubrirá con polietileno de 6 mil o mayor. Esto incluye barreras críticas en todas y cada una de las salidas de aire, utilizando pegamento y cinta adhesiva en todos los bordes. Se proveerá un solo acceso para entrar y salir del área de trabajo y de descontaminación.

Luego de encerrada el perímetro del área de trabajo, se instalara un sistema de ventilación que ayudara a mantener las fibras controladas en la zona de trabajo y áreas fueras de la misma. El equipo de presión negativa a utilizarse estará provisto con un filtro (HEPA). Este equipo tendrá una capacidad de mover al menos 2000 pies cúbicos de aire por minuto con tres etapas de filtro. El filtro principal (HEPA) tendrá un 99.97% de eficiencia en partículas de hasta 0.3 micrones. Este equipo sacará el aire filtrado al exterior del perímetro cerrado.

El sistema de ventilación funcionará durante el proceso de remoción, mientras dure el proyecto. Esto incluye el periodo de limpieza o descontaminación final hasta que las muestras de aire no excedan los límites permitidos de fibras de asbesto de 0.005f/cc.

F. REMOCIÓN DE ASBESTOS

La remoción de insulación y planchas de asbestos cemento se removerá de acuerdo a las regulaciones y exigencias de las agencias reguladoras, (EPA, OSHA, JCA). El material se removerá manualmente y después de ser removido será empacado en doble bolsa 6 milésimas, especialmente rotuladas para asbesto y será removido del área diariamente hacia el contenedor de almacenamiento. El material se removerá húmedo. Se asegurarán las paredes de polietileno de tal manera que no se desprenderán durante la remoción. El área en todo momento se mantendrá limpia y recogida del material ya removido, utilizando equipos de succión equipados con filtros HEPA. También se colocarán diques en las áreas para asegurar que el agua no se filtre hacia el exterior. El agua colectada será filtrada adecuadamente y se dispondrá a través del sistema de alcantarillado sanitario.

G. DESCONTAMINACIÓN DEL ÁREA DE TRABAJO

Luego de finalizado el trabajo de remoción del área de trabajo así como el área de descontaminación será limpiadas y descontaminadas. Los paños y demás utensilios desechables utilizados en la descontaminación y limpieza de todas las áreas serán depositados en bolsas rotuladas para empacar los desperdicios de (ACM). Sé removerán del área de trabajo todos los equipos y herramientas utilizadas en la operación. Dichos equipos y herramientas pasaran por el proceso de descontaminación antes de abandonar el área de trabajo. Luego de despejar y limpiar toda el área, esta se inspeccionará visualmente. Se seguirán los criterios de inspección que se muestran en la lista de cotejo incluido. Después de verificar la limpieza del área, se procederá a realizar un muestreo de aire para cumplir con los niveles de limpieza requeridos por las regulaciones de 0.005 f/cc. En el caso de que este parámetro no se cumpla, se procederá nuevamente a limpiar el área y se mostrara otra vez. El sistema de presión negativa se deberá mantener en operación hasta tanto se cumpla con el nivel de limpieza.

H. REQUERIMIENTO DE TRANSPORTACIÓN DEL ASBESTO

Se cumplirá con el reglamento del Departamento de Transportación Federal (DOT) y con el de Junta de Calidad Ambiental (JCA) para la transportación de los desperdicios generados en el proyecto hasta las facilidades de disposición final. El material de asbesto removido y generado se dispondrá en un vertedero autorizado por la Agencia Federal de Protección Ambiental (EPA por sus siglas en ingles) y la Junta de Calidad Ambiental (JCA) para estos fines.

Una vez el camión que contiene el desperdicio de asbesto arribe al vertedero, el chofer debe aproximarse a la localidad de desperdicio lo más cercano posible para descargar el material. Las bolsas empacadas se sacaran del camión y serán inspeccionadas a medida que se vayan descargando. En la eventualidad de que una bolsa empacada se haya roto o maltratado, el material será reempacado apropiadamente.

Las bolsas empacadas serán colocadas en el piso del lugar de disposición, no empujadas o tiradas del camión, ya que el peso del material mojado puede romper las mismas. El personal de descargue habrá de usar equipo protector apropiado que incluye ropa protectora desechable de cabeza, cuerpo y pies. También protección respiratoria mínima debe incluir el uso de respiradores de medio rostro equipados con filtros de alta eficiencia para partículas (HEPA).
Después de completado la remoción de todo el desperdicio, el área de carga del camión sea descontaminada usando aspiradoras (HEPA) y/o métodos húmedos de acuerdo con las regulaciones de (OSHA) y (EPA). Los paños de polietileno serán removidos y descartados junto con el material de limpieza contaminado y la ropa protectora en otras bolsas en el lugar de disposición.

Las bolsas o paquetes serán colocados, intactas en un área excavada y cubierta con un mínimo de seis (6) pulgadas de tierra limpia.

Anejo 7

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ALTOL
TRAINING CENTER

AGENDA

CURSO INICIAL SUPERVISOR DE ASBESTO

PRIMER DIA

Hora	Actividades	Capítulos
8:30 – 9:00	Presentación de transfondo	1
9:00 – 10:00	Regulaciones	17
10:00 – 10:15	PERIODO DE DESCANSO	
10:15 – 10:30	Vigilancia Médica	9
10:30 – 11:00	Efectos a la Salud	3
11:00 – 12:00	Protección de los Trabajadores (Respiradores y Equipo de Seguridad)	7,8
12:00 – 13:00	ALMUERZO	
13:00 – 14:00	Continuación Protección de Trabajadores	7,8
14:00 – 14:15	PERIODO DE DESCANSO	
14:15 – 16:30	Continuación Protección de Trabajadores (PRACTICA)	7,8

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TRAINING CENTER

AGENDA

CURSO INICIAL SUPERVISOR DE ASBESTO

SEGUNDO DIA

Hora	Actividades	Capítulos
8:30 – 9:30	Continuación Protección de Trabajadores (PRACTICA)	7,8
9:30 – 10:15	Tipos de Monitores (Materiales contienen asbestos)	14
10:15 – 10:30	PERIODO DE DESCANSO	
10:30 – 11:30	Tipos de Monitores (Materiales contienen asbestos)	14
11:30 – 12:00	Seguridad y Salud de los empleados (Seguridad de los empleados en proyectos de mitigación)	12
12:00 – 13:00	ALMUERZO	
13:00 – 14:30	Seguridad y Salud Ocupacional (Continuación)	12
14:30 – 14:45	PERIODO DE DESCANSO	
14:45 – 16:30	Seguridad y Salud Ocupacional (PRACTICA)	



AGENDA

CURSO INICIAL SUPERVISOR DE ASBESTO

TERCER DIA

Hora	Actividades	Capítulos
8:00 – 10:00	Discusión de Trabajo (Preparando el área de Trabajo Construcción de la Unidad de Decontaminación)	10
10:00 – 10:15	PERIODO DE DESCANO	
10:15 – 11:15	Continuación discusión de trabajo (encerramiento encapsulamiento y orientación de ejercicio de práctica	10
11:15 – 12:15	ALMUERZO	
12:15 – 13:15	Continuación discusión de trabajo (control de fibras en aire y técnicas de remoción)	10
13:15 – 14:00	Continuación discusión de trabajo (remoción con "glovebag")	10,18
14:00 –14:15	PERIODO DE DESCANSO	
14:15 – 15:15	Regla 422 de la Junta de Calidad Ambiental	10
15:15 – 16:45	Utilización de las máquinas de presión negativa y calculación de CFM necesarios en diversas áreas de mitigación	10,11
16:45 – 17:00	Introducción a seguros, contratos y "bid bonds"	4.

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AGENDA

CURSO INICIAL SUPERVISOR DE ASBESTO

CUARTO DIA

Hora	Actividades	Capítulos
8:00 – 10:00	Práctica de Trabajo (Preparando el área de Trabajo Construcción de la Unidad de Decontaminación)	10,11
12:00 – 13:00	ALMUERZO	
13:00 – 17:00	Prácticas de Trabajos de Remoción con"Glovebags"	18

AGENDA

CURSO INICIAL SUPERVISOR DE ASBESTO

QUINTO DIA

Hora	Actividades	Capítulos
8:00 – 19:15	Discusión de ejercicios de prácticas	10,11,18
9:15 – 10:15	Seguros, contratos y especificaciones	4,5
10:15 – 10:30	PERIODO DE DESCANSO	
10:30 – 11:45	Requisitos de la Junta de Calidad Ambiental (Plan de Trabajo, Permisos y Registro de Trabajadores)	
11:45 – 12:00	REPASO	
12:00 – 13:00	ALMUERZO	
13:00 - 15:00	EXAMEN	
15:00 – 15:30	Corrección y discussion	

ALTOL
TRAINING CENTER

AGENDA

Repaso de Supervisor Asbesto – 8 Hours

ALTOL Training Center

1. Bienvenida y registro de participantes	8:00 am – 8:15 am
2. Información básica sobre el Asbesto – Cap. 1	8:15 am – 8:45 am
3. Efectos a la salud – Cap. 3	8:45 am – 9:15 am
4. Aspectos Legales y Seguros – Cap. 4	9:15 am – 9:45 am
5. Receso	9:45 am – 10:00 am
6. Regulaciones – Cap. 17	10:00 am – 12:00 m
7. Almuerzo	12:00 m – 1:00 pm
8. Protección respiratoria/ Ropa Protectora – Cap. 7	1:00 pm – 1:30 pm
9. Otras consideraciones de salud y Seguridad – Cap.12	1:30 pm – 2:00 pm
10. Muestreos y métodos analíticos dirigidos- Cap. 14 a la mitigación de asbesto	2:00 pm – 2:30 pm
11. Receso	2:30 pm – 3:00 pm
12. Repaso y Examen	3:00 pm – 4:30 pm

Altol Training Center

AGENDA

CURSO INICIAL TRABAJADOR DE ASBESTO
PRIMER DIA

Hora	Actividades	Capítulos
8:30 – 9:00	Presentación de transfondo	1
9:00 – 10:00	Identificando el Asbesto	1
10:00 – 10:15	PERIODO DE DESCANSO	
10:15 – 10:30	Enfermedades provocadas por el asbesto	2
10:30 – 11:00	Exámenes Médicos	2
11:00 – 12:00	Protección de los Trabajadores (Respiradores, uso y mantenimiento)	3
12:00 – 13:00	ALMUERZO	
13:00 – 14:00	Protección de Trabajadores (Respiradores, uso y mantenimiento)	3
14:00 – 14:15	PERIODO DE DESCANSO	
14:15 – 16:30	Continuación Protección de Trabajadores (PRACTICA)	3

Altol Training Center

AGENDA

CURSO INICIAL TRABAJADOR DE ASBESTO
SEGUNDO DIA

Hora	Actividades	Capítulos
8:30 – 10:15	Metodos de control	4
10:15 – 10:30	PERIODO DE DESCANSO	
10:30 – 12:00	Remocion de asbesto (discusión de trabajo)	6
12:00- 13:00	ALMUERZO	
13:00 – 14:30	Limpieza de desechos (discusión de trabajo)	7
14:30 – 14:45	Remoción durante mantenimiento	8
14:45 – 16:30	Otros problemas de salud y seguridad	9

Altol Training Center

AGENDA

CURSO TRABAJADOR INICIAL DE ASBESTO

TERCER DIA

Hora	Actividades	Capítulos
8:00 – 10:00	Discusión de Trabajo (Preparando el área de Trabajo Construcción de la Unidad de Decontaminación)	4, 5, 6
10:00 – 10:15	PERIODO DE DESCANO	
10:15 – 11:15	Continuación discusión de trabajo (encerramiento encapsulamiento y orientación de ejercicio de práctica	4, 5, 6
11:15 – 12:15	ALMUERZO	
12:15 – 13:15	Continuación discusión de trabajo (control de fibras en aire y técnicas de remoción)	4, 5, 6
13:15 – 14:00	Continuación discusión de trabajo (remoción con "glovebag")	4, 5, 6
14:00 –14:15	PERIODO DE DESCANSO	
14:15 – 15:15	Regla 422 de la Junta de Calidad Ambiental	4, 5, 6
15:15 – 17:00	Utilización de las máquinas de presión negativa y calculación de CFM necesarios en diversas áreas de mitigación	5

Altol Training Center

AGENDA

CURSO TRABAJADOR INICIAL DE ASBESTO

CUARTO DIA

Hora	Actividades	Capítulos
8:00 – 12:00	Práctica de Trabajo (Preparando el área de Trabajo Construcción de la Unidad de Decontaminación)	5
12:00 – 13:00	ALMUERZO	
13:00 – 14:00	Práctica de Trabajo (Preparando el área de Trabajo Construcción de la Unidad de Decontaminación)	5
14:00 – 14:15	Receso	
14:15-15:00	Repaso para examen final (Aclarar dudas o preguntas).	
15:00-16:30	Examen	

AGENDA CURSO REPASO TRABAJADOR ASBESTO

Repaso de Trabajador Asbesto – 8 Horas

1. Bienvenida y registro de participantes	8:00 am – 8:15 am
2. Identificación del asbesto – Cap. 1	8:15 am – 8:45 am
3. Enfermedades provocadas por el asbesto – Cap. 2 Exámenes médicos – Cap. 2	8:45 am – 9:15 am
4. Respiradores y otros equipos de protección – Cap. 3	9:15 am – 9:45 am
5. Receso	9:45 am – 10:00 am
6. Métodos de control – Cap. 4	10:00 am – 12:00 m
7. Almuerzo	12:00 m – 1:00 pm
8. Métodos de control (cont.) – Cap. 4	1:00 pm – 1:30 pm
9. Otros problemas de salud y Seguridad – Cap. 9	1:30 pm – 2:00 pm
10. Remoción del asbesto-Cap. 6 Pág. 126,127, Cap. 7 Pág. 134	2:00 pm – 2:30 pm
11. Receso	2:30 pm – 3:00 pm
12. Repaso y Examen	3:00 pm – 4:30 pm

ALTOL TRAINING CENTER

TABLA DE CONTENIDO

1. Bienvenida y registro de participantes	8:00am-8:15am
2. Objetivos del curso/ Introduccion	8:15am-9:45am
3. Reconocimiento de Peligros e Identificación del mismo	9:45am-10:15am
4. Receso	10:15am-10:30am
5. Toxicologia	10:30am-11:00am
6. Proteccion Respiratoria	11:00am-11:30am
7. Ropa Protectora	11:30am-12:00pm
8. Plan de Salud y Seguridad	1:00pm-1:30pm
9. Reglamentos federales (cont.)	1:30pm-2:00pm
10. Receso	2:00pm-2:15pm
11. Descontaminacion	2:15pm-2:45pm
12. Organizacion de respuesta	2:45pm-3:15pm
13. Practica EPP	3:15pm- 4:30pm

ALTOL TRAINING CENTER

Sabanetas Industrial Park
Building 1380 M 1, 2, 3
Ponce, PR 00715
Tel. (787) 835-4242

LISTA DE MATRICULA

TITULO DEL CURSO: Repaso Trabajador Asbesto

FECHA: 12 de marzo de 2013 (Día 1)

NOMBRE	COMPAÑIA	SS# (ÚLTIMOS 4 DIGITOS)	ID #	HORA DE ENTRADA	INICIALES	HORA DE SALIDA ALMUERZO	INICIALES	HORA DE SALIDA	INICIALES
Osvaldo Ferrer	Varcon	4615	4363751	8:00	OFR	12:00	OFR	4:00	OFR
Ramón A Robles Feliciano	SUNSET	4594	4520104	8:00	R.A.R.F	12:00	R.A.R.F	4:00	R.A.R.F
W. Efrain Rivera Arroyo	"	0118	6293635	8:00	W.R.A	12:00	W.R.A	4:00	W.R.A.
Jose R. Gonzalez	SUNSET	4744	4729931	8:00	J.R.G	12:00	J.R.G.	4:00	J.R.G
Ramón Pérez Santiago	Sunset	4739	4443049	8:00	R.P.S	12:00	R.P.S	4:00	R.P.S
Luis A Tirado Irizarry	Sunset	3103	6405526	8:00	L.A.T.I	12:00	L.A.T.I	4:00	L.A.T.I
NEFTALI SANTIAGO PEREZ	SUNSET	0565	2065251	8:00	NSP	12:00	N.S.P.	4:00	N.S.P.

FIRMA DE INSTRUCTOR: Andy A Cruz

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ALTOL TRAINING CENTERS

Po Box 359 Mercedita, PR 00715

Curso: **RepasoTrabajador Asbesto** Fecha: 12 de marzo de 2013

LISTADO DE NOTAS

NOMBRE DEL PARTICIPANTE	NUMERO DE IDENTIFICACION	NOTA EN PORCENTAJE
1.Osvaldo Feliciano Ruiz	XXX-XX-4615	72 %
2.Ramon A. Robles Feliciano	XXX-XX-4594	72 %
3.Wilfred Perez Arroyo	XXX-XX-0118	72 %
4.Jose R. Gonzalez Mendez	XXX-XX-9744	72 %
5.Ramon Perez Santiago	XXX-XX- 4739	72 %
6.Luis A. Torres Irizarry	XXX-XX-3103	72 %
7.Neftali Santiago Perez	XXX-XX-0566	72 %

Por: [illegible]

Fecha: 12 de marzo de 2013

Verificado Por: Carlos O. Casas

Fecha: 13 de marzo - 13

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ALTOL TRAINING CENTER

Sabanetas Industrial Park
Building 1380 M 1, 2, 3
Ponce, PR 00715
Tel. (787) 835-4242

LISTA DE MATRICULA

TITULO DEL CURSO: Repaso Trabajador Asbesto

FECHA: 8 de abril de 2013 (Día 1)

NOMBRE	COMPAÑIA	SS# (ÚLTIMOS 4 DIGITOS)	ID #	HORA DE ENTRADA	INICIALES	HORA DE SALIDA ALMUERZO	INICIALES	HORA DE SALIDA	INICIALES
Eng. [illegible] Concepcion	Homeca	1695	4900669	8:00	C.C.P.	12:00	C.C.P.	4:00	C.C.P.
Edgar A. Olivencia	Homeca	3136	136130	8:00	JAO	12:00	JAO	4:00	JAO
Alfredo Rivera	J.R. Contractors	5657	[illegible]	8:00	A.R.	12:00	A.R.	4:00	A.R.
Steven Segarra	J.R. Contractors	6701	2670268	8:00	J.R.	12:00	J.S.	4:00	J.S.
[illegible]	Homeca	1693	60[illegible]	8:00	[illegible]	12:00	[illegible]	4:00	[illegible]
Jose A. Miranda	Homeca	2538	3460031	8:00	J.M.	12:00	J.M.	4:00	J.M.
Jose E. Vargas Lugo	Homeca	8194	4450386	8:00	J.V.L.	12:00	J.V.L.	4:00	J.V.L.
Mario Rivera	Homeca	1254		8:00	MRR	12:00	MRR	4:00	MRR
Jesus Rodriguez	Homeca	2151	4454[illegible]	8:00	J.R.	12:00	J.R.	4:00	J.R.
Emilio Bauzá Echevarria	"	9571	1646194	8:00	EBE	12:00	EBE	4:00	EBE

FIRMA DE INSTRUCTOR: [signature]

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ALTOL TRAINING CENTER

Po Box 359 Mercedita, PR 00715

Curso: **Repaso Trabajador Asbesto** Fecha: **8 de abril de 2013**

NOMBRE DEL PARTICIPANTE	NUMERO DE IDENTIFICACION	NOTA EN PORCENTAJE
1.Geovanie Gonzalez Perez	XXX-XX-6095	72%
2.Ferdinand Alvarado Rodriguez	XXX-XX-8136	80%
3.Alfredo Rivera Rivera	XXX-XX-3059	72%
4.Steven Segarra Garcia	XXX-XX-6807	72%
5.Cristobal Salcedo Rodriguez	XXX-XX-1900	72%
6.Jose M. Miranda Santiago	XXX-XX-2538	76%
7.Jorge E. Velázquez Irizarry	XXX-XX-8494	76%
8.Alexis Rivera Robles	XXX-XX-1259	72%
9.Juan Rodríguez Rivera	XXX-XX-2751	76%
10.Emilio Bonet Echevarria	XXX-XX-9571	72%

Por: ----------

Fecha: 11 de abril de 2013

Verificado Por: ----------

Fecha: 11 abril 2013

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ALTOL TRAINING CENTER

Sabanetas Industrial Park
Building 1380 M 1, 2, 3
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Tel. (787) 835-4242

LISTA DE MATRICULA

TITULO DEL CURSO Asbestos Supervisor Refresher FECHA: 9 abril 2018

NOMBRE	COMPAÑIA	SS# (ÚLTIMOS 4 DIGITOS)	ID #	HORA DE ENTRADA	INICIALES	HORA DE SALIDA ALMUERZO	INICIALES	HORA DE SALIDA	INICIALES
Angel J Santiago	ZRT	2546	222295	8:00	ALS	12:00	ALS	4:00	ALS
Juan Enrique Santiago	Nortal Environmental	3317	189641	8:00		12:00		4:00	
Norma I. Torres	Nortal Environmental	8118	192034	8:00	N.I.T.	12:00	N.I.T.	4:00	N.I.T.

FIRMA DE INSTRUCTOR: Andy O Cruz

EA-ASB-0311-0001

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ALTOL TRAINING CENTER

Po Box 359 Mercedita, PR 00715

Curso: **Repaso Supervisor Asbesto**

Fecha: **9 de abril de 2013**

LISTADO DE NOTAS

NOMBRE DEL PARTICIPANTE	NUMERO DE IDENTIFICACION	NOTA EN PORCENTAJE
1. Angel L. Santiago	2546	80 %
2. Juan Enrique Santiago	3347	72 %
3. Norma I. Torres	8418	72%
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Por: Gregorio Linares

Fecha: 11 de abril de 2013

Verificado Por: Carlos A. Luis

Fecha: 11 abril 2013

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LISTA DE MATRICULA

TITULO DEL CURSO: Repaso Supervisor Asbesto

FECHA: 28 de mayo de 2013 (Día 1)

NOMBRE	COMPAÑIA	SS# (ÚLTIMOS 4 DIGITOS)	ID #	HORA DE ENTRADA	INICIALES	HORA DE SALIDA ALMUERZO	INICIALES	HORA DE SALIDA	INICIALES
Daniel Pacheco	Sunset	1797	1965729	8:00 am	D.P	12:00	D.P	4:00	D.P
Jose A. Cafo	Sun Set	4205	4864045	8:00 am	J.C.S	12:00	J.C.S	4:00	J.C.S
Hector Ortiz	Sunset Inc.	9152	4401142	8:00 am	H.O	12:00	H.O	4:00	H.O
Melvin Feliciano	Honeca	5109	7317316	8:00 am	M.F	12:00	M.F.	4:00	M.F.
Jose Feliciano Guadalupe	Sun Set	7954	16176597	8:00 am	J.F.G	12:00	J.F.G	4:00	J.F.G
Luzdellys Echevarria Lopez	QMB	1119	2324195	8:00 AM	L.E.L.	12:00	L.E.L.	4:00	L.E.L.
jose L. Rodriguez	QMB	0297	1966268	8:00 AM	jRe	12:00	jRe	4:00	jRe
Jose Sanchez Gomez	QMB	0463	4357419	8:00	JSG	12:00	JSG	4:00	JSG
KRETT CASTILLO GARCIA	QMB	3644	16795462	8:00 am	KCG	12:00	KCG	4:00	KCG
Daniel Caraballo	Independiente	4703		8:00	DCR	12:00	DCR	4:00	DCR

FIRMA DE INSTRUCTOR: Carlos E. Cruz

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ALTOL
Po Box 359 Mercedita, PR 00715

Curso: **Repaso Supervisor Asbesto** Fecha: **28 de mayo de 2013**

LISTADO DE NOTAS

NOMBRE DEL PARTICIPANTE	NUMERO DE IDENTIFICACION	NOTA EN PORCENTAJE
1.Daniel Pacheco Rodríguez	XXX-XX-7797	84%
2.Jose A. Cortijo Soto	XXX-XX-4705	88%
3.Melvin Feliciano Aponte	XXX-XX-5109	100%
4.Hector Vélez de Jesús	XXX-XX-9135	94%
5.Jose Feliciano Guadalupe	XXX-XX-7959	88%
6.Jose Sanchez Gómez	XXX-XX-0463	74%
7.Jose L. Rodríguez Cora	XXX-XX-0297	92%
8.Daniel Caraballo Rivera	XXX-XX-4703	100%
9.Luzdellys Echevarria Zayas	XXX-XX-1119	96%
10.Rhett Castillo Gammill	XXX-XX-4703	100%

Por: Yamnisi Berrios

Fecha: 29 de mayo de 2013

Verificado Por: Adolfo Cabo

Fecha: 29 de mayo de 2013

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ALTOL TRAINING CENTER

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Building 1380 M 1, 2, 3
Ponce, PR 00715
Tel. (787) 835-4242

LISTA DE MATRICULA

TITULO DEL CURSO: Repaso Supervisor Asbesto

FECHA: 12 de julio de 2013 (Día 1)

NOMBRE	COMPAÑIA	SS# (ÚLTIMOS 4 DIGITOS)	ID #	HORA DE ENTRADA	INICIALES	HORA DE SALIDA ALMUERZO	INICIALES	HORA DE SALIDA	INICIALES
Ramon Alicea Melendez	Sun Sand	1506	629366	8:00	RAm	12:06	RAm	4:00	RAm
Edwin J. Colon Rios	Home & Recreation	4986	424837	8:00	EJC.	12:00	EJC.	4:00	EJC.
Gerald Cotto	Hanson	5176	264685	8:00	G.C.R	12:00	G.C.R	4:00	G.C.R
Ismael Cruz	Toledo	7716	423463	8:00	I.C.	1200	I.C.	4:00	I.C.

FIRMA DE INSTRUCTOR: Carlos E. Colon

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ALTOL
Environmental Services

Po Box 359 Mercedita, PR 00715

Curso: **Repaso Supervisor Asbesto**

Fecha: **12de julio de 2013**

LISTADO DE NOTAS

NOMBRE DEL PARTICIPANTE	NUMERO DE IDENTIFICACION	NOTA EN PORCENTAJE
1. Ramon Alier	1506	72 %
2. Ederick Caquias	4986	72 %
3. Geraldo Collazo	5196	76 %
4.Ismael Cruz	7716	76 %
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Por: Yazmin Roxie

Fecha: 12 julio 2013

Verificado Por: Carlos Colon

Fecha: 12 julio de 2013

ALTOL TRAINING CENTER

Sabanetas Industrial Park
Building 1380 M 1, 2, 3
Ponce, PR 00715
Tel. (787) 835-4242

LISTA DE MATRICULA

TITULO DEL CURSO: Repaso Trabajador Asbesto

FECHA: 27 de agosto de 2018 (Día 1)

NOMBRE	COMPAÑIA	SS# (ÚLTIMOS 4 DIGITOS)	ID #	HORA DE ENTRADA	INICIALES	HORA DE SALIDA ALMUERZO	INICIALES	HORA DE SALIDA	INICIALES

FIRMA DE INSTRUCTOR:

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ALTOL
TRAINING CENTER

Po Box 359 Mercedita, PR 00715

Curso: **Repaso Trabajador Asbesto**

Fecha: **27 de agosto de 2013**

LISTADO DE NOTAS

NOMBRE DEL PARTICIPANTE	NUMERO DE IDENTIFICACION	NOTA EN PORCENTAJE
1. Angel L. Santiago	4841	96 %
2. Juan E. Garcia	3123	80 %
3. Miguel A. Alomar	2011	84 %
4. Wigberto Gonzalez	9170	76 %
5. Alexis Torres	8464	84 %
6. Ismael Bones	6522	72 %
7. Reinaldo Lopez	3928	80 %
8. Jose M. Rodriguez	0328	76 %
9. Ricardo Tort	4909	72 %
10. Jose L. Rodriguez	9948	76 %
11. Axel Rodriguez	4510	80 %
12. Alexis Rodriguez	8792	88 %
13.		
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15.		

Por: Lcdo. Manuel

Fecha: 28 agosto 2013

Verificado Por: Lcdo. [illegible]

Fecha: 28 de agosto 13

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ALTOL TRAINING CENTER

Sabanetas Industrial Park
Building 1380 M 1, 2, 3
Ponce, PR 00715
Tel. (787) 835-4242

LISTA DE MATRICULA

TITULO DEL CURSO: Inicial Trabajador Asbesto

FECHA: 28 de agosto de 2013 (Día 1)

NOMBRE	COMPAÑIA	SS# (ÚLTIMOS 4 DIGITOS)	ID #	HORA DE ENTRADA	INICIALES	HORA DE SALIDA ALMUERZO	INICIALES	HORA DE SALIDA	INICIALES
Manuel Perez Arroy	Vanguard Caribe	4769		8:00 AM	M.P.A.	12:00PM	M.P.A.	4:00PM	M.P.A.
Juan C. Morales Rosario	Vanguard Caribe	8407	4722478	8:00 Am	JCMR	12:00 pm	JCMR	4:00 pm	JCMR
Jose L Pérez Sierra	Vanguard Caribe	6883	4685900	8:00 A.M	J.P.S	12:00PM	JPS	4:00PM	J.P.S
Juan C. Suero Feliciano	Vanguard Caribe	1025	6471558	8:00 A.M	J.C.S.F	12:00P.M	J.C.S.F	4:00PM	J.C.S.F
Josué Rodriguez Santiago	Vanguard caribe	1257	6189748	8:00 A.M	JRS	12:00pm	JRS	4:00PM	J.R.S
Jose N. Velez Caballero	Vanguard Caribe	3928	4456810	8:00 pm	J.N.V.C	12:00PM	J.N.V.C.	4:00PM	J.N.V.C
Moises Barreto Molina	Homeca	2977	4508018	8:00AM	MBA	12:00 pm	MBA	4:00 PM	MBA.
Jesús M. Pérez Echevarría	Vanguard Caribe	3356	1752917	8:00 AM	JMPE	12:00 PM	JMPE	4:00PM	JMPE.
[illegible]	[illegible]	1318	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	8:00 PM	NAT	12 PM	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	8566	[illegible]	[illegible]	[illegible]	12 [illegible]	[illegible]	[illegible]	[illegible]
Javier Rubén morales	Homeca	1824	4151794	8 AM	JRM	12:00pm	J. RM	4:00pm	JRM
Jose A Vega Rivera	Homeca	9083	1493944	8 AM	JAV	12:00	JAV	4	[illegible]
Juan M Medina de Jesus	Vanguard	0882	6251365	8:00 AM	JMJ	12:00pm	J.M.J	4:00 PM	JMJ
Axel E. Caquias Torres	Vanguard	2303	4645888	8:00 AM	ACT	12:00pm	ACT	4:00 pm	ACT

FIRMA DE INSTRUCTOR: _____

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ALTOL TRAINING CENTER

Sabanetas Industrial Park
Building 1380 M 1, 2, 3
Ponce, PR 00715
Tel. (787) 835-4242

LISTA DE MATRICULA

TITULO DEL CURSO: Inicial Trabajador Asbesto

FECHA: 28 de agosto de 2013 (Día 1)

NOMBRE	COMPAÑIA	SS# (ÚLTIMOS 4 DIGITOS)	ID #	HORA DE ENTRADA	INICIALES	HORA DE SALIDA ALMUERZO	INICIALES	HORA DE SALIDA	INICIALES
Jaime Hernandez	Consultor	1570	630037	8:00	JEM	12:00	JEM	4:00	JEM
Jose A Gonzalez Aponte	Vargas	3600	464 BLS	8:00	JAGA	12:00	JAGA	4:00	JAGA
Herbert M Medina	Homeca	8914	353 036	8:00	HMM	12:00	HMM	4:00	HMM
Jose C Soto Vega	Homeca	3922	2373715	8:00	JCSV	12:00	JCSV	4:00	JCSV
Santos D Ruiz Cabrera	Homeca	1026	2614708	8:00	SDRC	12:00	SDRC	4:00	SDRC
Miguel A Vargas Rodz	Homeca	4900	479B820	8:00	MAVR	12:00	MAVR	4:00	MAVR
Rafael Velazquez	Homeca	0113 7616 12	2010642	8:00	RVC	12:00	RVC	4:00	RVC
Emmanuel Ramos M	Homeca	4598	6480256	8:00	ERM	12:00	ERM	4:00	ERM
JOSE R PEREZ	DAVID GUAVARD	3739	45477578	8:00	JRPR	12:00	JRPR	4:00	JRPR

FIRMA DE INSTRUCTOR: Carlos E Cortes

CONFIDENTIAL & PRIVILEDGE

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ALTOL TRAINING CENTER

Sabanetas Industrial Park
Building 1380 M 1, 2, 3
Ponce, PR 00715
Tel. (787) 835-4242

LISTA DE MATRICULA

TITULO DEL CURSO: Inicial Trabajador Asbesto

FECHA: 29 de agosto de 2018 (Día 2)

NOMBRE	COMPAÑIA	SS# (ÚLTIMOS 4 DIGITOS)	ID #	HORA DE ENTRADA	INICIALES	HORA DE SALIDA ALMUERZO	INICIALES	HORA DE SALIDA	INICIALES
Joel Maldonado Arroyo	Van Guard	8566	4578153	8:00 Am	JMA	12:00 pm	JMA	4:00 pm	JMA
Moises Barreto Medina	Homeca	2977	4508019	8:00 AM	MBA	12:00 PM	MBA	4:00 PM	MBA
Tesis M. Pérez Echevarri	Van Guard	3356	1752917	8:00 A.M.	TMPE	12:00PM	TMPE.	4:00PM	TMPE.
Juan C. Morales Rosario	Vanguard Caribe	8407	4722978	8:00Am	J.C.M.R.	12:00pm	J.C.M.R.	4:00pm	J.C.M.R.
Juan C. Sierra Feliciano	Vanguard Caribe	1025	6471558	8:00 A.M	J.C.S.F	12:00P.m	J.C.S.F	4:00pm	J.C.S.F
Joel J. Pérez Sierra	Vanguard Caribe	6883	4685900	8:00 AM	JJPS	12:00 PM	JJPS	4:00PM	JJPS
Axel E Cagvios Torres	Vanguard Caribe	2303	4645888	8:00AM	AET	12:00pm	AET	4:00pm	AET
Josué Rodriguez Santiago	Vanguard caribe	1257	6189948	8:00AM	J.R.S	12:00PM	J.R.S	4:00PM	J.R.S
Jean M Medina de Jesús	Vanguard caribe	0086	6257365	8:00 AM	J.M.J	12:00 PM	J.M.J	4:00PM	J.M.J
Pedro M Maldonado Arroyo	Van Guard caribe	4325	4579925	8:00Am	P.M.A	12:00p.m	P.M.A	4:00p.m	P.M.A
Francisco Flores Ruiz	Vanguard Caribe	1384	6132737	8: AM	J.F.M	12:00PM	J.F.M	4:00PM	J.F.M
Jose A Candelario Aguino	Vanguard caribe	3600	4647323	8:00 AM	J.A.C.A	12:00 PM	J.A.C.A	4:00 PM	J.A.C.A
JOSE R. PEREZ	VANGUARD	3739	481475733	8: AM	JRPR	12:00PM	JRPR	4PPM	JRPR
Luis Tos	VANGUARD	6574	6055594	8: AM	L.T.A.	12:00PM	L.A.T	4:00 PM	L.A.T
Jose E Santiago Delgado	Homeca	3722	2323715	8: AM	JESD	12:00	JESD	4:00	JESD

FIRMA DE INSTRUCTOR: _____

CONFIDENTIAL & PRIVILEDGE

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ALTOL TRAINING CENTER

Sabanetas Industrial Park
Building 1380 M 1, 2, 3
Ponce, PR 00715
Tel. (787) 835-4242

LISTA DE MATRICULA

TITULO DEL CURSO: Inicial Trabajador Asbesto

FECHA: 29 de agosto de 2013 (Día 2)

NOMBRE	COMPAÑIA	SS# (ÚLTIMOS 4 DIGITOS)	ID #	HORA DE ENTRADA	INICIALES	HORA DE SALIDA ALMUERZO	INICIALES	HORA DE SALIDA	INICIALES
Santos D. Ruiz Urbina	Homeca	1026	2618808	8:00	S.D.R.U	12:00	S.D.R.U	4:00	S.D.R.U
Javier Pabón Morales	Homeca	1824	4151794	8:00	J.P.M	12:00	J.P.M	4:00	J.P.M
Emmanuel Ramos Maldonado	Homeca	4598	6480256	8:00	E.R.M	12:00	E.R.M	4:00	E.R.M
José A Vergel	Homeca	9087	1430344	8:00	J.A.V	12:00	J.A.V	4:00	J.A.V
Rafael Velazquez Ortiz	Homeca	0118	2010642	8:00	R.V.O	12:00	R.V.O	4:00	R.V.O
Manuel Perez Arroyo	Vanguard	6769	6099239	8:00	M.P.A	12:00	M.P.A	4:00	M.P.A
Jose N. Velez Caraballo	Vanguard	3928	4456810	8:00	J.N.V.C	12:00	J.N.V.C	4:00 PM	J.N.V.
Anthony M. Rodriguez	Homeca	8924	6432256	8:00	A.M.R.L	12:00	A.M.R.L	4:00	A.M.R.L

FIRMA DE INSTRUCTOR: Carlos E. Lasa

CONFIDENTIAL & PRIVILEDGE

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ALTOL TRAINING CENTER

Sabanetas Industrial Park
Building 1380 M 1, 2, 3
Ponce, PR 00715
Tel. (787) 835-4242

LISTA DE MATRICULA

TITULO DEL CURSO: Inicial Trabajador Asbesto

FECHA: 30 de agosto de 2013 (Día 3)

NOMBRE	COMPAÑIA	SS# (ÚLTIMOS 4 DIGITOS)	ID #	HORA DE ENTRADA	INICIALES	HORA DE SALIDA ALMUERZO	INICIALES	HORA DE SALIDA	INICIALES
[illegible]	[illegible]	[illegible]	[illegible]	8:00 a.m.	[illegible]	12:00	JMA	4:00	JMA
[illegible]	HOMECA	2777	[illegible]	[illegible] AM	MBA	12:00	MBA	4:00	MBA
Jesús Pérez Echevarría	Vanguard Caribe	3356	[illegible]	8:00 AM	J.P.E.	12:00	J.P.E.	4:00	J.P.E.
[illegible]	Vanguard Caribe	6769	[illegible]	8:00 AM	M.A.H.A	12:00	M.A.H.A	4:00	M.A.H.A
Juan C. Morales Rosario	Vanguard Caribe	8407	[illegible]	[illegible]	J.C.M.R.	12:00 pm	J.C.M.R.	4:00 pm	J.C.M.R.
[illegible]	Vanguard Caribe	[illegible]	[illegible]	[illegible]	J.C.S.F.	12:00 p.m	J.C.S.F.	4:00 p.m	J.C.S.F.
[illegible]	Vanguard Caribe	[illegible]	[illegible]	[illegible]	J.P.S.	12:00 P.M	J.P.S.	4:00 P.M	J.P.S.
Axel E. Caquias Torres	Vanguard Caribe	2303	4645888	8:00 AM	A.C.T.	12:00 PM	A.C.T.	4:00 pm	A.C.T.
Josué Rodríguez Santiago	Vanguard Caribe	1257	6189948	8:00 AM	J.R.S.	12:00 PM	J.R.S.	4:00 PM	J.R.S.
Jose M. Velez	Vanguard caribe	3928	4956810	8:00 AM	J.M.V.	12:00 PM	J.M.V.	4:00 PM	J.M.V.
Jean M. Medina de Jesús	Vanguard caribe	0086	6257365	8:00 AM	J.M.J.	12:00 PM	J.M.J.	4:00 PM	J.M.J.
[illegible]	Vanguard caribe	4328	[illegible]	8:00 AM	[illegible]	12:00 PM	[illegible]	4:00 PM	[illegible]
Jonathan Flores Martínez	Vanguard Caribe	1384	6132732	8:00 AM	J.F.M.	12:00 PM	J.F.M.	4:00 PM	J.F.M.
Jorge A. Gandulas Aponte	Vanguard Caribe	3600	4647323	8:00 AM	J.A.G.A.	12:00 P.M	J.A.G.A.	4:00 PM	J.A.G.A.
JOSE R. PEREZ RAMIREZ	VANGUARD CARIBE	3739	48147529	8:00 AM	J.R.P.R.	12:00 PM	J.R.P.R.	4:00 PM	J.R.P.R.

FIRMA DE INSTRUCTOR: [signature]

CONFIDENTIAL & PRIVILEDGE
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ALTOL TRAINING CENTER

Sabanetas Industrial Park
Building 1380 M 1, 2, 3
Ponce, PR 00715
Tel. (787) 835-4242

LISTA DE MATRICULA

TITULO DEL CURSO: Inicial Trabajador Asbesto

FECHA: 30 de agosto de 2013 (Día 3)

NOMBRE	COMPAÑIA	SS# (ÚLTIMOS 4 DIGITOS)	ID #	HORA DE ENTRADA	INICIALES	HORA DE SALIDA ALMUERZO	INICIALES	HORA DE SALIDA	INICIALES
L of ISTaIS	VAnGard	0574	60 55799	8 00 AM	L.A.T.	12 PM	L A T.	4:00	L A T
José E Santiago Delgado	Homeca	3222	2323785	8:00	JESD	12:00	JESD	4:00	JESD
Santos D. Ruiz Cabrera	Homeca	1026	2618808	8:00	S.D.R.L	12:00	S.D.R.L	4:00	S.D.R.L
Javier Rivera morales	Homeca	1824	4151794	8:00	J.P.M	12:00	J P M	4:00	J P M
Emmanuel Ramos Maldonado	Homeca	4598	6480256	8:00	E.R.M	12:00	E.R.M	4:00	E.R.M
José A Vargas	Homeca	9087	1430344	8:00	J A V	12:00	J A V	4:00	J A V
Rafael Velázquez Ortiz	Homeca	0118	2010642	8:00	R V O	12:00	R V O	4:00	R V O
Anthony M. Ruiz Lozada	Homeca	8974	1432256	8:00	A.M.R.L.	12:00	A.M.R.L.	4:00	A.M.R.L.

FIRMA DE INSTRUCTOR: Rachel D. Lee

CONFIDENTIAL & PRIVILEDGE

RX 6
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ALTOL TRAINING CENTER

Sabanetas Industrial Park
Building 1380 M 1, 2, 3
Ponce, PR 00715
Tel. (787) 835-4242

LISTA DE MATRICULA

TITULO DEL CURSO: Inicial Trabajador Asbesto

FECHA: 31 de agosto de 2013 (Día 4)

NOMBRE	COMPAÑIA	SS# (ÚLTIMOS 4 DIGITOS)	ID #	HORA DE ENTRADA	INICIALES	HORA DE SALIDA ALMUERZO	INICIALES	HORA DE SALIDA	INICIALES
Jonathan Flores Martinez	Vanguard caribe	1389	6132232	8:00 AM	J.F.M.	12:00 PM	J.F.M	4:00 PM	J.F.M
JOSE R. PEREZ RAMIREZ	VANGUARD CARIBE	3739	98475733	8:00 AM	JRPR	12:00 PM	JRPR	4:00 PM	JRPR
José A Vargas	Homeca	9087	1430344	8:00	JAV	12:00	JAV	4:00 PM	JAV
Rafael Velazquez Ortiz	Homeca	0118	2010642	8:00 AM	RVO	12:00 PM	RVO	4:00	RVO
Juan M. Medina De Jesus	Vanguar caribe	0086	6257565	8:00 AM	J.M.J	12:00 PM	J.M.J	4:00 PM	J.M.J
Pedro Maldonado Arroyo	Vanguard caribe	4325	4575925	8:00 AM	P.M.A	12:00 PM	P.M.A	4:00 PM	P.M.A
Jose Rodriguez Santiago	Vanguard Caribe	1257	6189948	8:00 AM	J.R.S	12:00 PM	J.R.S	4:00 PM	J.R.S
Santos A. Ruiz Cabrera	Homeca	1026	2618808	8:00	S.R.C	12:00	S.R.C	4:00	S.R.C
Jose E Santiago Delgado	Homeca	3222	2323775	8:00	J.E.S.D	12:00	J.E.S.D	4:00	J.E.S.D
Jesus Perez Echevarria	Vanguard Caribe	3356	1752917	8:00 AM	JPE	12:00	JPE	4:00	JPE
Manuel Perez Arroyo	Vanguard Caribe	6769	6099239	8:00 AM	MPA	12:00 PM	MPA	4:00 PM	MPA
Juan C. Morales Rosario	Vanguard Caribe	8407	4722478	8:00 Am	JC.MR	12:00pm	JC.MR	4:00pm	JC.MR
Joel R Perez Sierra	Vanguard Caribe	6883	4685900	8:00 AM	J.P.S	12:00 PM	J.P.S	4:00 PM	J.P.S
Juan C. Sierra Feliciano	Vanguard Caribe	1025	6471558	8:00 Am	J.C.S.F	12:00 p.m	J.C.S.F	4:00 pm	J.C.S.F
Anthony M. Rodriguez Lozada	Homeca	8974	6432286	8:00	A.M.R.L	12:00	A.M.R.L	4:00	A.M.R.L

FIRMA DE INSTRUCTOR: Carlos Colón

CONFIDENTIAL & PRIVILEDGE

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001533
RX 6

ALTOL TRAINING CENTER

Sabanetas Industrial Park
Building 1380 M 1, 2, 3
Ponce, PR 00715
Tel. (787) 835-4242

LISTA DE MATRICULA

TITULO DEL CURSO: Inicial Trabajador Asbesto

FECHA: 31 de agosto de 2013 (Día 4)

NOMBRE	COMPAÑIA	SS# (ÚLTIMOS 4 DIGITOS)	ID #	HORA DE ENTRADA	INICIALES	HORA DE SALIDA ALMUERZO	INICIALES	HORA DE SALIDA	INICIALES
Jose N. Velez	Vanguard	3928	4956810	8:00am	J.N.V.C	12:00	J.N.V.C	4:00pm	J.N.V.C
Javier Rabón morales	Homeca	1824	4151794	8:00	JPM	12:00	JPM	4:00	JPM
Emmanuel Ramos Maldonado	Homeca	4598	6480256	8:00	E.R.M	12:00	ERM	4:00	E.R.M
Joel Maldonado Vargas	Vanguard	8566	4578157	8:00	JMA	12:00	JMB	4:00	JMA
Luis Torres	Vanguard	0574	6855799	8:00	LAT	12:00	LAT	4:00	LAT.
Jorge A Cardona Aguirre	Vanguard	3600	4647323	8:00	J.A.C.A	12:00	J.A.C.A	4:00	J.A.C.A
Axel E Caquias Torres	Vanguard	2303	4645848	8:00	ACT	12:00	ACT	4:00	ACT
Moisés Barreto Arvelo	Homeca	2977	4508019	8:00	MBA	12:00	MBA	4:00	MBA

FIRMA DE INSTRUCTOR: Carlos E. Cruz

CONFIDENTIAL & PRIVILEDGE

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ALTOL TRAINING CENTER

Po Box 359 Mercedita, PR 00715

Curso: Inicial Trabajador Asbesto

Fecha: 28 al 31 de agosto de 2013

LISTADO DE NOTAS

NOMBRE DEL PARTICIPANTE	NUMERO DE IDENTIFICACION	NOTA EN PORCENTAJE
1. Moisés Barreto Andino	2977	86 %
2. Rafael Velázquez Ortiz	0118	80 %
3. Jose A. Verges	9087	82 %
4. Emmanuel Ramos	4598	84 %
5. Anthony M. Rodriguez	8974	76 %
6. Jose E. Santiago	3222	80 %
7. Santos D. Ruiz Lebrón	1026	78 %
8. Javier Pabón	1824	82 %
9. Axel E. Caquias	2303	82 %
10. Jorge A. Garlesden	3600	86 %
11. Jonathan Flores	1389	82 %
12. Joel Maldonado	8566	78 %
13. Pedro M. Maldonado	4328	82 %
14. Jean M. Medina	0086	80 %
15. Juan C. Morales	8407	92 %
16. Manuel Pérez	6769	82 %
17. Jesús M. Pérez	3356	84 %

4 Sept 13

CONFIDENTIAL ATTORNEY EYES ONLY
RX 6
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001633

ALTOL TRAINING CENTER

Po Box 359 Mercedita, PR 00715

Curso: **Inicial Trabajador Asbesto** Fecha: **28 al 31 de agosto de 2013**

LISTADO DE NOTAS

NOMBRE DEL PARTICIPANTE	NUMERO DE IDENTIFICACION	NOTA EN PORCENTAJE
18. Jose R. Pérez	3739	82 %
19. Joel R. Pérez	6883	84 %
20. Josué Rodriguez	1257	84 %
21. Juan C. Sierra	1025	86 %
22. Luis A. Torres	0574	84 %
23. Jose N. Vélez	3928	84 %
24.		
25.		
26.		
27.		
28.		
29.		
30.		

Por: ----------

Fecha: 2 de septiembre de 2013

Verificado Por: ----------

Fecha: 4 de sept 2013

ALTOL TRAINING CENTER

Sabanetas Industrial Park
Building 1380 M 1, 2, 3
Ponce, PR 00715
Tel. (787) 835-4242

LISTA DE MATRICULA

TITULO DEL CURSO: Repaso Supervisor Asbestos

FECHA: 8 de septiembre de 2013

NOMBRE	COMPAÑIA	SS# (ÚLTIMOS 4 DIGITOS)	ID #	HORA DE ENTRADA	INICIALES	HORA DE SALIDA ALMUERZO	INICIALES	HORA DE SALIDA	INICIALES
Manuel Acosta	La Clinica	3127	460421	8:00	MA	1:00	MA	5:00	MA
Noama Collazo	HOMECA	9725	430064	8:00	NC	1:00	NC	5:00	NC
Adolfo Valdes Aponte	TAAG	0942		8:00	AVA	1:00		5:00	

FIRMA DE INSTRUCTOR: Carlos Colón

EA-ASB-0311-0001

CONFIDENTIAL & PRIVILEDGE

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RX 6

ALTOL
TRAINING CENTER

Po Box 359 Mercedita, PR 00715

Curso: **Repaso Supervisor Asbesto**

Fecha: **3 de septiembre de 2013**

LISTADO DE NOTAS

NOMBRE DEL PARTICIPANTE	NUMERO DE IDENTIFICACION	NOTA EN PORCENTAJE
1. Adolfo Valdes	0942	80 %
2. Manuel Acosta	3127	72 %
3. Norma I. Collazo	9725	72 %
4.		
5.		
6.		
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9.		
10.		
11.		
12.		
13.		
14.		
15.		

Por: Yamil Acevedo

Fecha: 3 de septiembre 2013

Verificado Por: Norma I. Collazo

Fecha: 4 de Sept. 2013

CONFIDENTIAL - SUBJECT TO PROTECTIVE ORDER

ALTOL TRAINING CENTER

Sabanetas Industrial Park
Building 1380 M 1, 2, 3
Ponce, PR 00715
Tel. (787) 835-4242

LISTA DE MATRICULA

TITULO DEL CURSO: Repaso Trabajador Asbesto

FECHA: 30 de septiembre de 2013

NOMBRE	COMPAÑIA	SS# (ÚLTIMOS 4 DIGITOS)	ID #	HORA DE ENTRADA	INICIALES	HORA DE SALIDA ALMUERZO	INICIALES	HORA DE SALIDA	INICIALES
Carlos Ramos	Honeca	9720	624703	8:00AM	CR	12:00	CR	4:00	CR
Efrain Ojeda	Honeca	0843	[illegible]	8:00AM	EO	12:00	EO	4:00	EO
Raul Silva	Honeca	5553	421489	8:00AM	RS	12:00	RS	4:00	RS
Luis R. Valentin	Honeca	5865	414278	8:00AM	LRV	12:00	LRV	4:00	LRV
Hector Morales	Honeca	9971		8:00AM	HMR	12:00	HMR	4:00	HMR
Wilfredo Martinez	Honeca	3230	424341	8:00AM	WM	12:00	WM	4:00	WM
Felix Perez	Honeca	3245	464990	8:00AM	FPR	12:00	FPR	4:00	FPR

FIRMA DE INSTRUCTOR: Carlos R. Valentin

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CONFIDENTIAL & PRIVILEDGE

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ALTOL TRAINING CENTER

Po Box 359 Mercedita, PR 00715

Curso: Repaso Trabajador Asbesto

Fecha: 30 de septiembre de 2013

LISTADO DE NOTAS

NOMBRE DEL PARTICIPANTE	NUMERO DE IDENTIFICACION	NOTA EN PORCENTAJE
1. Eusebio Franceschini	9420	76%
2. Edwin Alier	0843	80%
3. Ángel I. Silva	5558	76%
4. Félix R. Valentín	5885	76%
5. Hector B. Montañez	9971	88%
6. Hector L. Montañez	3230	76%
7. Desther Tirado	3743	76%
8.		
9.		
10.		
11.		
12.		
13.		
14.		
15.		

Por: Ángel Rosado

Fecha: Octubre 2-2013

Verificado Por: Ángel Rosado

Fecha: 04-10-2013



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Geraldo Collazo

Supervisor

A trabajar en la categoría arriba indicada
Esta persona NO es un empleado, ni un representante de la Junta

ASB-0110-0005-AS
Número de Registro

29 de diciembre de 2010
Fecha de vencimiento

Firma Autorizada
Junta de Calidad Ambiental



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Geraldo Collazo

Supervisor

A trabajar en la categoría arriba indicada
Esta persona NO es un empleado, ni un representante de la Junta

ASB-0109-0008-AS
Número de Registro

1 de enero de 2010
Fecha de vencimiento

Firma Autorizada
Junta de Calidad Ambiental



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Melvín Feliciano

Supervisor

A trabajar en la categoría arriba indicada
Esta persona NO es un empleado, ni un representante de la Junta

ASB-0809-0423-AS
Número de Registro

18 de agosto de 2010
Fecha de vencimiento

Firma Autorizada
Junta de Calidad Ambiental



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Ederick Caquías

Supervisor

A trabajar en la categoría arriba indicada
Esta persona NO es un empleado, ni un representante de la Junta

ASB-0809-0376-AS
Número de Registro

10 de julio de 2010
Fecha de vencimiento

Firma Autorizada
Junta de Calidad Ambiental



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

José Miranda

Trabajador

A trabajar en la remoción de asbesto.
Esta persona **NO** es un empleado, ni un representante de la Junta

ASB-0809-0395-AW
Número de Registro

10 de julio de 2010
Fecha de vencimiento

Firma Autorizada
Junta de Calidad Ambiental



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Eliezer González

Trabajador

A trabajar en la remoción de asbesto.
Esta persona **NO** es un empleado, ni un representante de la Junta

ASB-0809-0418-AW
Número de Registro

8 de agosto de 2010
Fecha de vencimiento

Firma Autorizada
Junta de Calidad Ambiental



TARJETA DE REGISTRO
PARA LA REMOCION OE ASBESTO

Esta tarjeta autoriza a:

Jorge Velázquez

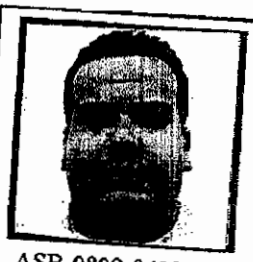
Trabajador

A trabajar en la remoción de asbesto.
Esta persona **NO** es un empleado, ni un representante de la Junta

ASB-0809-0419-AW
Número de Registro

8 de agosto de 2010
Fecha de vencimiento

Firma Autorizada
Junta de Calidad Ambiental



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

José E. Sánchez

Trabajador

A trabajar en la remoción de asbesto.
Esta persona **NO** es un empleado, ni un representante de la Junta

ASB-0809-0417-AW
Número de Registro

8 de agosto de 2010
Fecha de vencimiento

Firma Autorizada
Junta de Calidad Ambiental



TARJETA DE REGISTRO
PARA LA REMOCIÓN DE ASBESTO

Esta tarjeta autoriza a:

Juan L. Rodríguez

Trabajador

A trabajar en la remoción de asbesto.
Esta persona **NO** es un empleado, ni un representante de la Junta

ASB-0809-0420-AW
Número de Registro

8 de agosto de 2010
Fecha de vencimiento

Firma Autorizada
Junta de Calidad Ambiental



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Norma Collazo

Trabajador

A trabajar en la remoción de asbesto.
Esta persona **NO** es un empleado, ni un representante de la Junta

ASB-0809-0378-AW
Número de Registro

10 de julio de 2010
Fecha de vencimiento

Firma Autorizada
Junta de Calidad Ambiental



TARJETA OE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Miguel Collazo

Trabajador

A trabajar en la remoción de asbesto.
Esta persona **NO** es un empleado, ni un representante de la Junta

ASB-0809-0377-AW
Número de Registro

10 de julio de 2010
Fecha de vencimiento

Firma Autorizada
Junta de Calidad Ambiental



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Juan H. López

Supervisor

A trabajar en la categoría arriba indicada
Esta persona NO es un empleado, ni un representante de la Junta

Firma Autorizada
Junta de Calidad Ambiental

ASB-0210-00147-AS
Número de Registro

30 de enero de 2011
Fecha de vencimiento



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Ederick Caquías

Supervisor

A trabajar en la categoría indicada.
Esta persona NO es un empleado, ni un representante de la Junta

Firma Autorizada
Junta de Calidad Ambiental

ASB-0910-0439-AS
Número de Registro

7-jul-2011
Fecha de vencimiento



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Melvin Feliciano

Supervisor

A trabajar en la categoría indicada.
Esta persona NO es un empleado, ni un representante de la Junta

Firma Autorizada
Junta de Calidad Ambiental

ASB-0910-0438-AS
Número de Registro

7-jul-2011
Fecha de vencimiento



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Geraldo Collazo

Supervisor

A trabajar en la categoría indicada.
Esta persona NO es un empleado, ni un representante de la Junta

Firma Autorizada
Junta de Calidad Ambiental

ASB-0111-0053-AS
Número de Registro

6-ene-2012
Fecha de vencimiento



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Amador Medina Ramos

Trabajador

A trabajar en la remoción de asbesto.
Esta persona NO es un empleado, ni un representante de la Junta

ASB-0610-0360-AW
Número de Registro

15-may-2011
Fecha de vencimiento

Firma Autorizada
Junta de Calidad Ambiental



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Norma I. Collazo Ramos,

Trabajador

A trabajar en la remoción de asbesto.
Esta persona NO es un empleado, ni un representante de la Junta

ASB-0710-0411-AW
Número de Registro

8-jul-2011
Fecha de vencimiento

Firma Autorizada
Junta de Calidad Ambiental



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

José M. Miranda Santiago

Trabajador

A trabajar en la remoción de asbesto.
Esta persona NO es un empleado, ni un representante de la Junta

ASB-0710-0407-AW
Número de Registro

8-jul-2011
Fecha de vencimiento

Firma Autorizada
Junta de Calidad Ambiental



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Miguel A. Collazo Ruiz

Trabajador

A trabajar en la remoción de asbesto.
Esta persona NO es un empleado, ni un representante de la Junta

ASB-0710-0408-AW
Número de Registro

8-jul-2011
Fecha de vencimiento

Firma Autorizada
Junta de Calidad Ambiental



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Eliezer González Irizarry

Trabajador

A trabajar en la remoción de asbesto.
Esta persona NO es un empleado, ni un representante de la Junta

ASB-0710-0413-AW
Número de Registro

8-jul-2011
Fecha de vencimiento

Firma Autorizada
Junta de Calidad Ambiental



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Jorge E. Velázquez Irizarry

Trabajador

A trabajar en la remoción de asbesto.
Esta persona NO es un empleado, ni un representante de la Junta

ASB-0710-0410-AW
Número de Registro

8-jul-2011
Fecha de vencimiento

Firma Autorizada
Junta de Calidad Ambiental



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Cristóbal Salcedo Rodríguez

Trabajador

A trabajar en la remoción de asbesto.
Esta persona NO es un empleado, ni un representante de la Junta

ASB-0610-0361-AW
Número de Registro

15-may-2011
Fecha de vencimiento

Firma Autorizada
Junta de Calidad Ambiental



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Giovanie González

Trabajador

A trabajar en la remoción de asbesto.
Esta persona NO es un empleado, ni un representante de la Junta

ASB-1010-0512-AW
Número de Registro

3-sep-2011
Fecha de vencimiento

Firma Autorizada
Junta de Calidad Ambiental



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Ferdinand Alvarado

Trabajador

A trabajar en la remoción de asbesto.
Esta persona NO es un empleado, ni un representante de la Junta

ASB-1010-0513-AW
Número de Registro

3-sep-2011
Fecha de vencimiento

Firma Autorizada
Junta de Calidad Ambiental



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Juan L. Rodríguez Rivera

Trabajador

A trabajar en la remoción de asbesto.
Esta persona NO es un empleado, ni un representante de la Junta

ASB-0710-0412-AW
Número de Registro

8-jul-2011
Fecha de vencimiento

Firma Autorizada
Junta de Calidad Ambiental



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Melvin Feliciano Aponte

Supervisor

A trabajar en la categoría arriba indicada
Esta persona NO es un empleado, ni un representante de la Junta

Firma Autorizada
Junta de Calidad Ambiental

ASB-0811-0377-AS
Número de Registro

12 de julio de 2012
Fecha de vencimiento



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Juan López

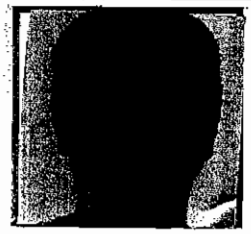
Supervisor

A trabajar en la categoría indicada.
Esta persona NO es un empleado, ni u
n representante de la Junta

Firma Autorizada
Junta de Calidad Ambiental

ASB-0111-0052-AS
Número de Registro

6-ene-2012
Fecha de vencimiento



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Norma Collazo

Supervisor

A trabajar en la categoría arriba indicada
Esta persona NO es un empleado, ni un representante de la Junta

Firma Autorizada
Junta de Calidad Ambiental

ASB-1211-0689-AS
Número de Registro

17 de octubre de 2012
Fecha de vencimiento



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Ederick Caquias Velázquez

Supervisor

A trabajar en la categoría arriba indicada
Esta persona NO es un empleado, ni un representante de la Junta

Firma Autorizada
Junta de Calidad Ambiental

ASB-0811-0414-AS
Número de Registro

12 de julio de 2012
Fecha de vencimiento



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Jose Luis Rodríguez

Supervisor

A trabajar en la categoría arriba indicada
Esta persona NO es un empleado, ni un representante de la Junta

Firma Autorizada
Junta de Calidad Ambiental

ASB-0312-0176-AS
Número de Registro

17 de octubre de 2012
Fecha de vencimiento



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Gerardo Collazo Ramos

Supervisor

A trabajar en la categoría arriba indicada
Esta persona NO es un empleado, ni un representante de la Junta

Firma Autorizada
Junta de Calidad Ambiental

ASB-0212-0118-AS
Número de Registro

12 de enero de 2013
Fecha de vencimiento



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

José M. Miranda Santiago

Trabajador

A trabajar en la categoría arriba indicada
Esta persona NO es un empleado, ni un representante de la Junta

ASB-0811-0381-AW
Número de Registro

10 de julio de 2012
Fecha de vencimiento

Firma Autorizada
Junta de Calidad Ambiental



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Cristóbal Salcedo Rodríguez

Trabajador

A trabajar en la remoción de asbesto.
Esta persona NO es un empleado, ni un representante de la Junta

ASB-0711-0346-AW
Número de Registro

13-jun-2012
Fecha de vencimiento

Firma Autorizada
Junta de Calidad Ambiental



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Jorge E. Velazquez

Trabajador

A trabajar en la categoría arriba indicada
Esta persona NO es un empleado, ni un representante de la Junta

ASB-0811-0380-AW
Número de Registro

10 de julio de 2012
Fecha de vencimiento

Firma Autorizada
Junta de Calidad Ambiental



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Eliezer González Irrizary

Trabajador

A trabajar en la categoría arriba indicada
Esta persona NO es un empleado, ni un representante de la Junta

ASB-0811-0382-AW
Número de Registro

10 de julio de 2012
Fecha de vencimiento

Firma Autorizada
Junta de Calidad Ambiental



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Juan L. Rodríguez Rivera

Trabajador

A trabajar en la categoría arriba indicada
Esta persona NO es un empleado, ni un representante de la Junta

ASB-0811-0376-AW
Número de Registro

10 de julio de 2012
Fecha de vencimiento

Firma Autorizada
Junta de Calidad Ambiental



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Eliseo Caraballo

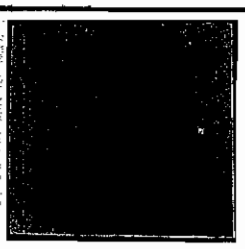
Trabajador

A trabajar en la categoría arriba indicada
Esta persona NO es un empleado, ni un representante de la Junta

ASB-0212-0116-AW
Número de Registro

19 de diciembre de 2012
Fecha de vencimiento

Firma Autorizada
Junta de Calidad Ambiental



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

José Pacheco Cáliz

Trabajador

A trabajar en la categoría arriba indicada
Esta persona NO es un empleado, ni un representante de la Junta

ASB-1011-0555-AW
Número de Registro

9 de octubre de 2012
Fecha de vencimiento

Firma Autorizada
Junta de Calidad Ambiental



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Eliseo Caraballo

Trabajador

A trabajar en la remoción de asbesto.
Esta persona NO es un empleado, ni un representante de la Junta

ASB-0411-0204-AW
Número de Registro

28-ene-2012
Fecha de vencimiento

Firma Autorizada
Junta de Calidad Ambiental



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Rubén Negrón Camacho

Trabajador

A trabajar en la categoría arriba indicada
Esta persona NO es un empleado, ni un representante de la Junta

ASB-0811-0390-AW
Número de Registro

10 de julio de 2012
Fecha de vencimiento

Firma Autorizada
Junta de Calidad Ambiental



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Eligio Ortiz

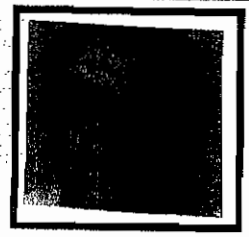
Trabajador

A trabajar en la remoción de asbesto.
Esta persona NO es un empleado, ni un representante de la Junta

ASB-0411-0202-AW
Número de Registro

28-ene-2012
Fecha de vencimiento

Firma Autorizada
Junta de Calidad Ambiental



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

José N. Hernández Sanabria

Trabajador

A trabajar en la remoción de asbesto.
Esta persona NO es un empleado, ni un representante de la Junta

ASB-0711-0347-AW
Número de Registro

13-jun-2012
Fecha de vencimiento

Firma Autorizada
Junta de Calidad Ambiental



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Giovanie González Pérez

Trabajador

A trabajar en la categoría arriba indicada
Esta persona NO es un empleado, ni un representante de la Junta

ASB-0811-0379-AW
Número de Registro

10 de julio de 2012
Fecha de vencimiento

Firma Autorizada
Junta de Calidad Ambiental



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

José Sánchez Gomez

Trabajador

A trabajar en la categoría arriba indicada
Esta persona NO es un empleado, ni un representante de la Junta

ASB-0811-0389-AW
Número de Registro

10 de julio de 2012
Fecha de vencimiento

Firma Autorizada
Junta de Calidad Ambiental



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

José Sánchez

Supervisor

A trabajar en la categoría arriba indicada
Esta persona NO es un empleado, ni un representante de la Junta

ASB-0312-0177-AS
Número de Registro

17 de octubre de 2012
Fecha de vencimiento

Firma Autorizada
Junta de Calidad Ambiental



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Reinaldo López

Trabajador

A trabajar en la categoría arriba indicada
Esta persona NO es un empleado, ni un representante de la Junta

ASB-1011-0557-AW
Número de Registro

9 de octubre de 2012
Fecha de vencimiento

Firma Autorizada
Junta de Calidad Ambiental



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Ismael Bones Díaz

Trabajador

A trabajar en la categoría arriba indicada
Esta persona NO es un empleado, ni un representante de la Junta

ASB-1011-0551-AW
Número de Registro

9 de octubre de 2012
Fecha de vencimiento

Firma Autorizada
Junta de Calidad Ambiental

CONFIDENTIAL & PRIVILEGED



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Luis I. Robles

Trabajador

A trabajar en la categoría arriba indicada
Esta persona NO es un empleado, ni un representante de la Junta

ASB-1011-0548-AW
Número de Registro

9 de octubre de 2012
Fecha de vencimiento

Firma Autorizada
Junta de Calidad Ambiental



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Frank Jorge

Trabajador

A trabajar en la categoría arriba indicada
Esta persona NO es un empleado, ni un representante de la Junta

ASB-1011-0566-AW
Número de Registro

9 de octubre de 2012
Fecha de vencimiento

Firma Autorizada
Junta de Calidad Ambiental



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Antonio Román

Trabajador

A trabajar en la remoción de asbesto.
Esta persona NO es un empleado, ni un representante de la Junta

ASB-0411-0203-AW
Número de Registro

28-ene-2012
Fecha de vencimiento

Firma Autorizada
Junta de Calidad Ambiental



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

José Luis Rodríguez Cora

Trabajador

A trabajar en la categoría arriba indicada
Esta persona NO es un empleado, ni un representante de la Junta

ASB-1011-0565-AW
Número de Registro

9 de octubre de 2012
Fecha de vencimiento

Firma Autorizada
Junta de Calidad Ambiental



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Ángel L. Sílva García

Trabajador

A trabajar en la categoría arriba indicada
Esta persona NO es un empleado, ni un representante de la Junta

ASB-1011-0569-AW
Número de Registro

9 de octubre de 2012
Fecha de vencimiento

Firma Autorizada
Junta de Calidad Ambiental



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Juan H. López Candelario

Supervisor

A trabajar en la categoria arriba indicada
Esta persona NO es un empleado, ni un representante de la Junta

ASB-0212-0119-AS
Número de Registro

12 de enero de 2013
Fecha de vencimiento

Firma Autorizada
Junta de Calidad Ambiental



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Geraldo Collazo

Supervisor

A trabajar en la remoción de asbesto.
Esta persona NO es un empleado, ni un representante de la Junta

ASB-0712-0419-AS
Número de Registro

6 de junio de 2013
Fecha de vencimiento

Firma Autorizada
Junta de Calidad Ambiental



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Melvin Feliciano

Supervisor

A trabajar en la remoción de asbesto.
Esta persona NO es un empleado, ni un representante de la Junta

ASB-0712-0417-AS
Número de Registro

6 de junio de 2013
Fecha de vencimiento

Firma Autorizada
Junta de Calidad Ambiental



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Ederick J. Caquias

Supervisor

A trabajar en la remoción de asbesto.
Esta persona NO es un empleado, ni un representante de la Junta

ASB-0712-0418-AS
Número de Registro

6 de junio de 2013
Fecha de vencimiento

Firma Autorizada
Junta de Calidad Ambiental



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Norma I. Collazo Ramos

Supervisor

A trabajar en la remoción de asbesto.
Esta persona NO es un empleado, ni un representante de la Junta

ASB-1012-0608-SI
Número de Registro

9 de octubre de 2013
Fecha de vencimiento

Firma Autorizada
Junta de Calidad Ambiental



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Ferdinand Alvarado

Trabajador

A trabajar en la remoción de asbesto.
Esta persona NO es un empleado, ni un representante de la Junta

ASB-0712-0416-AW
Número de Registro

7 de junio de 2013
Fecha de vencimiento

Firma Autorizada
Junta de Calidad Ambiental



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Cristobal Salcedo

Trabajador

A trabajar en la remoción de asbesto.
Esta persona NO es un empleado, ni un representante de la Junta

ASB-0712-0412-AW
Número de Registro

7 de junio de 2013
Fecha de vencimiento

Firma Autorizada
Junta de Calidad Ambiental



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Jorge Velázquez

Trabajador

A trabajar en la remoción de asbesto.
Esta persona NO es un empleado, ni un representante de la Junta

ASB-0712-0411-AW
Número de Registro

7 de junio de 2013
Fecha de vencimiento

Firma Autorizada
Junta de Calidad Ambiental



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Jose M. Miranda

Trabajador

A trabajar en la remoción de asbesto.
Esta persona NO es un empleado, ni un representante de la Junta

ASB-0712-0414-AW
Número de Registro

7 de junio de 2013
Fecha de vencimiento

Firma Autorizada
Junta de Calidad Ambiental



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Juan Rodriguez

Trabajador

A trabajar en la remoción de asbesto.
Esta persona NO es un empleado, ni un representante de la Junta

ASB-0712-0413-AW
Número de Registro

7 de junio de 3013
Fecha de vencimiento

Firma Autorizada
Junta de Calidad Ambiental



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Geovanis González

Trabajador

A trabajar en la remoción de asbesto.
Esta persona NO es un empleado, ni un representante de la Junta

ASB-0712-0410-AW
Número de Registro

7 de junio de 2013
Fecha de vencimiento

Firma Autorizada
Junta de Calidad Ambiental



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Eliseo Caraballo

Trabajador

A trabajar en la remoción de asbesto.
Esta persona NO es un empleado, ni un representante de la Junta

ASB-0113-0016-AW
Número de Registro

6 de diciembre de 2013
Fecha de vencimiento

Firma Autorizada
Junta de Calidad Ambiental



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Angel L. Figueroa

Trabajador

A trabajar en la remoción de asbesto.
Esta persona NO es un empleado, ni un representante de la Junta

ASB-0712-0409-AW
Número de Registro

14 de junio de 2013
Fecha de vencimiento

Firma Autorizada
Junta de Calidad Ambiental



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Eusebio Franseschini Román

Trabajador

A trabajar en la remoción de asbesto.
Esta persona NO es un empleado, ni un representante de la Junta

ASB-0213-0050-AW
Número de Registro

24 de octubre de 2013
Fecha de vencimiento

Firma Autorizada
Junta de Calidad Ambiental



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Miguel Collazo

Trabajador

A trabajar en la remoción de asbesto.
Esta persona NO es un empleado, ni un representante de la Junta

ASB-0712-0415-AW
Número de Registro

7 de junio de 2013
Fecha de vencimiento

Firma Autorizada
Junta de Calidad Ambiental



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Ismael Bones Diaz

Trabajador

A trabajar en la remoción de asbesto.
Esta persona NO es un empleado, ni un representante de la Junta

ASB-1012-0584-AW
Número de Registro

19 se septiembre de 2013
Fecha de vencimiento

Firma Autorizada
Junta de Calidad Ambiental



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Reinaldo López Rodríguez

Trabajador

A trabajar en la remoción de asbesto.
Esta persona NO es un empleado, ni un representante de la Junta

ASB-1012-0582-AW
Número de Registro

19 de septiembre de 2013
Fecha de vencimiento

Firma Autorizada
Junta de Calidad Ambiental



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Luis L. Robles Garcia

Trabajador

A trabajar en la remoción de asbesto.
Esta persona NO es un empleado, ni un representante de la Junta

ASB-1112-0642-AW
Número de Registro

14 de octubre de 2013
Fecha de vencimiento

Firma Autorizada
Junta de Calidad Ambiental



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

José M. Rodríguez Cora

Trabajador

A trabajar en la remoción de asbesto.
Esta persona NO es un empleado, ni un representante de la Junta

ASB-1012-0581-AW
Número de Registro

19 de septimbre de 2013
Fecha de vencimiento

Firma Autorizada
Junta de Calidad Ambiental



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Alexis J. Rivera

Trabajador

A trabajar en la remoción de asbesto. Esta persona NO es un empleado, ni un representante de la Junta

ASB-0712-0408-AW

Número de Registro

14 de junio de 2013

Fecha de vencimiento

Firma Autorizada
Junta de Calidad Ambiental



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Angel I. Silva Garcia

Trabajador

A trabajar en la remoción de asbesto. Esta persona NO es un empleado, ni un representante de la Junta

ASB-1112-0643-AW

Número de Registro

14 de octubre de 2013

Fecha de vencimiento

Firma Autorizada
Junta de Calidad Ambiental



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Emilio Bonet

Trabajador

A trabajar en la remoción de asbesto. Esta persona NO es un empleado, ni un representante de la Junta

ASB-0712-0407-AW

Número de Registro

14 de junio de 2013

Fecha de vencimiento

Firma Autorizada
Junta de Calidad Ambiental



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Frank Jorge Cabrera

Trabajador

A trabajar en la remoción de asbesto. Esta persona NO es un empleado, ni un representante de la Junta

ASB-1112-0641-AW

Número de Registro

14 de octubre de 2013

Fecha de vencimiento

Firma Autorizada
Junta de Calidad Ambiental

Anejo 8

CONFIDENTIAL & PRIVILEGE

Ver Anejo 9 para información de "reléase" médicos.

Anejo 9

HOMECA RECYCLING CENTER CO., INC.

DIVISIÓN DE CALIDAD AMBIENTAL, SALUD Y SEGURIDAD OCUPACIONAL

PROGRAMA DE PROTECCIÓN RESPIRATORIA PARA EL PERSONAL

A Base de los Requisitos que Establece la Administración para la Salud y Seguridad Ocupacional (OSHA, siglas en inglés) en el 29 CFR 1910.134.

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CONFIDENTIAL ATTRIVILEDGE

PROGRAMA DE PROTECCIÓN RESPIRATORIA PARA EL PERSONAL

I. Introducción

La Administración Federal para la Seguridad y Salud Ocupacional (*OSHA*, siglas en inglés) en la Subparte I del Código de Reglamentación Federal (29 *CFR* 1910.134) tiene el propósito de reducir al mínimo la exposición ocupacional a sustancias tóxicas, contaminantes en el aire, peligros físicos y biológicos a los cuales los empleados se exponen durante la realización de sus tareas (Ver Apéndice A). La norma requiere el desarrollo e implantación de un Programa escrito de Protección Respiratoria, el cual establezca procedimientos específicos en el área de trabajo para proteger la salud de los empleados.

La norma también requiere la revisión y actualización del programa según sea necesario y/o cuando ocurran cambios en el lugar de trabajo que afecten la utilización del equipo de protección respiratoria y la evaluación e identificación de los peligros para las vías respiratorias presentes en el lugar de trabajo. Ésta entró en vigor el 8 de abril de 1998.

Homeca debe asegurarse de proteger a sus empleados de lesiones y enfermedades ocupacionales debido a los peligros existentes en las distintas actividades que se llevan a cabo en sus instalaciones, especialmente los que afectan las vías respiratorias. Es prioridad de Homeca identificar y controlar estos peligros. En caso de que los controles de ingeniería o administrativos no sean viables o suficientes para proveer la seguridad a los empleados se hace necesario utilizar equipo de protección respiratoria para prevenir la exposición a gases, vapores, aerosoles, material particulado o atmósferas deficientes de oxígeno.

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IV. Responsabilidades

A. División de Calidad Ambiental, Salud y Seguridad Ocupacional (CASSO)

1. Facilitar la implantación del Programa de Protección Respiratoria en todas sus áreas.

2. Proveer ayuda técnica a los Proyectos y Facilidades de Homeca para la implantación del programa.

3. Promover que se ofrezcan los adiestramientos y readiestramientos según lo requiere la reglamentación.

B. Cada Unidad

1. Evaluar las áreas y actividades de trabajo para identificar si existen peligros para las vías respiratorias.

2. Implantar las medidas de control necesarias para eliminar o reducir la exposición del empleado a los peligros que se identificaron. Si éstos no están disponibles o no son viables hay que determinar la necesidad de utilizar equipo de protección respiratoria en sus instalaciones.

3. Desarrollar, implantar y mantener un Programa de Protección Respiratoria de acuerdo a las necesidades particulares de la unidad (Ver Apéndice B).

4. Proveer, libre de costo, un respirador apropiado a cada empleado incluido en el programa.

C. Autoridad Nominadora Correspondiente

1. Promover la implantación del Programa de Protección Respiratoria.

2. Asignar y facilitar los recursos necesarios para la implantación del programa.

3. Designar el Administrador del programa.

NOTA: La persona que se designe Administrador del Programa de Protección Respiratoria debe estar capacitada, ya sea por adiestramiento o experiencia, para administrar y evaluar la efectividad del programa. Se recomienda que éste sea el Director de la Oficina, División o Funcionario a Cargo de la Salud y Seguridad Ocupacional de la unidad. En aquellas unidades donde no hay un funcionario con las responsabilidades descritas, la autoridad nominadora correspondiente identificará una persona cualificada y la nombrará Administrador del Programa.

D. Oficina, División o Funcionario a Cargo de la Salud y Seguridad Ocupacional/Administrador del Programa

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E. **Supervisores**

1. Implantar el Programa de Protección Respiratoria en su área de trabajo.

2. Asegurarse de que los empleados bajo su supervisión, a los cuales se les requiere utilizar respiradores, se les evalúa médicamente según lo establece la reglamentación.

3. Asegurarse de que los empleados bajo su supervisión, a los cuales se les requiere utilizar respiradores, los utilizan adecuadamente y que asistan a los adiestramientos que se ofrezcan.

4. Mantener disponibles los respiradores apropiados para el trabajo que realiza el empleado.

5. Realizar inspecciones periódicas para asegurarse que los empleados bajo su supervisión siguen los procedimientos de limpieza, desinfección y almacenamiento de los respiradores.

F. **Empleados**

1. Utilizar los respiradores que se les provean para realizar sus tareas.

2. Limpiar, desinfectar y almacenar los respiradores según los procedimientos que se establecen en el programa.

3. Informar a su supervisor sobre cualquier problema con el ajuste o funcionamiento del respirador.

4. Informar a su supervisor o al Administrador del Programa sobre cualquier peligro en el lugar de trabajo, que no se haya atendido adecuadamente o de cualquier otra preocupación que se relacione con el programa.

V. Uso Voluntario de Respiradores

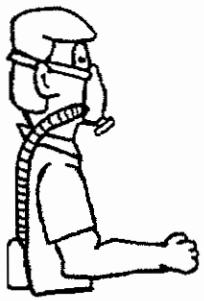
La Gerencia prohíbe el uso voluntario de equipo de protección respiratoria en las áreas de trabajo donde no se identifiquen peligros para las vías respiratorias.

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La vida útil de los purificadores de aire está limitada por la concentración del contaminante, la tasa de respiración del usuario, los niveles de temperatura y humedad del lugar de trabajo y la capacidad de remoción del respirador. Cuando se utilizan los purificadores de aire, se deben comprar los filtros y cartuchos que tengan un Indicador de Fin de la Vida Útil *(End-Of-Service-Life Indicator-ESLI)* certificado por *NIOSH* para el contaminante. Si no hay un indicador se debe implantar un Itinerario de Cambio de Cartuchos, para garantizar que se sustituyen antes de llegar al final de su vida útil. Además, deben seleccionarse de acuerdo al contaminante presente en el área de trabajo y estar disponibles para sustituirlos según sea necesario.

B. **Suplidores de Aire**

Proveen aire limpio al usuario independiente del aire que está en la atmósfera inmediata. El aire respirable lo suple una fuente externa libre de contaminación. Se utilizan en atmósferas deficientes de oxígeno o cuando la atmósfera y la concentración del contaminante representan Peligro Inmediato para la Vida o la Salud (*Immediately Dangerous to Life or Health-IDLH)*. Éstos se clasifican en: línea de aire, aire auto-contenido (*Self Contained Breathing Apparatus-SCBA)* o una combinación de éstos.

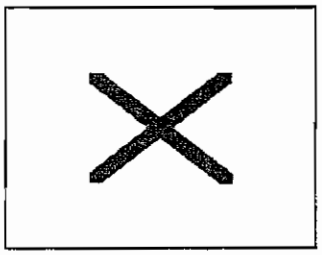


Los respiradores de línea de aire proveen un flujo de aire respirable desde una fuente externa por medio de una manguera. Uno de los inconvenientes de éste es que la manguera puede reducir la movilidad del usuario, desconectarse o el usuario puede enredarse en ella.

Los *SCBA* suplen aire proveniente de un tanque y ofrecen el mayor nivel de protección respiratoria. Éstos se utilizan comúnmente en rescates y situaciones de emergencia.

VII. Evaluación Médica

Los empleados a quienes se les requiera utilizar respiradores para realizar sus tareas tienen que someterse a una evaluación médica. El propósito de ésta es determinar si está capacitado para utilizar el respirador. La evaluación médica se realizará antes de la prueba de ajuste y antes que el empleado comience a utilizar el equipo.



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VIII. Pruebas de Ajuste

Antes que al empleado se le requiera utilizar un respirador, ya sea de presión positiva o negativa, debe realizarse una prueba de ajuste con un respirador del estilo, modelo y tamaño que se utilizará (Ver Apéndice E). Existen dos tipos de pruebas de ajuste:



A. **Prueba de Ajuste Cualitativa**-Consiste en introducir un agente de prueba (gas, vapor, aerosol) en el área alrededor de la cabeza del usuario. Si éste puede detectar la presencia del agente de prueba de forma subjetiva (olor, sabor, irritación) el ajuste del respirador es inadecuado.

B. **Prueba de Ajuste Cuantitativa**-Se mide la cantidad de escape dentro y fuera de la pieza de cara (*facepiece*) del respirador, ya sea generando un aerosol de prueba como prueba de atmósfera, utilizando un aerosol ambiental como agente de prueba o presión negativa controlada para medir la tasa de escape volumétrico. Se requiere una instrumentación adecuada para cuantificar el ajuste del respirador y una persona cualificada para llevar a cabo la prueba.

La prueba de ajuste la realizará la Oficina, División o Funcionario a Cargo de la Salud y Seguridad Ocupacional/Administrador del Programa. Estas pruebas se llevarán a cabo:

A. Luego de la evaluación médica.

B. Antes que el empleado comience a utilizar el respirador para realizar sus tareas.

C. Cuando utilice un respirador de un modelo, tamaño y estilo diferente.

D. Como mínimo anualmente.

Estas pruebas tienen que repetirse cuando:

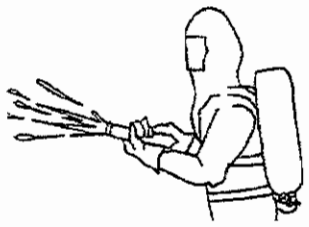
A. El empleado informa cambios en las condiciones físicas tales como: cicatrices faciales, cirugías cosméticas, cambios en la dentadura y cambios en peso.

B. El médico o profesional de la salud certificado, el administrador del programa o el supervisor observan cambios en las condiciones físicas del individuo que afectan la utilización del respirador.

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X. Procedimiento en Atmósferas que Representan Peligro Inmediato para la Vida o la Salud *(IDLH)*:

A. Debe haber como mínimo un empleado fuera de la atmósfera *IDLH*. Éste debe estar adiestrado y tener el equipo adecuado para emergencias. Por ejemplo: respiradores de línea de aire, *SCBA* o una combinación de éstos, entre otro equipo de rescate.



B. El empleado que está fuera de la atmósfera *IDLH* debe mantener comunicación con el empleado que está dentro de la atmósfera y que utiliza el respirador.

C. Antes de iniciar un rescate, el empleado que está fuera de la atmósfera *IDLH* debe informárselo a la Oficina, División o Funcionario a Cargo de la Salud y Seguridad Ocupacional/Administrador del Programa para que provea lo necesario para el rescate de emergencia.

NOTA: Se deben establecer procedimientos escritos para situaciones de emergencia e incluirse dentro del programa.

XI. Limpieza, Desinfección, Almacenamiento e Inspección de los Respiradores

A. Limpieza y Desinfección

El supervisor debe asegurarse de que los empleados limpian y desinfectan los respiradores. Para esto seguirán los procedimientos que aparecen en el Apéndice B-2 de la reglamentación o las recomendaciones del fabricante (Ver Apéndice A de este documento). Los respiradores se deben limpiar y desinfectar de acuerdo a los siguientes intervalos:

1. Los respiradores para uso de un sólo empleado se deben limpiar y desinfectar según sea necesario para mantenerlos en buen estado.

2. Los respiradores para uso de más de un empleado se deben limpiar y desinfectar antes que cada empleado las utilice.

3. Los respiradores que se utilizan para emergencias se deben limpiar y desinfectar después de cada uso.

4. Los respiradores que se utilizan para las pruebas de ajuste o para adiestramientos se deben limpiar y desinfectar después de cada uso.

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XII. Identificación de los Filtros y Cartuchos

Todos los filtros y cartuchos deben estar identificados y codificados por color con la etiqueta de aprobación de *NIOSH*. La etiqueta debe mantenerse legible y no removerse.

XIII. Calidad de Aire

La Oficina, División o Funcionario a Cargo de la Salud y Seguridad Ocupacional/Administrador del Programa y el Supervisor deben asegurarse de que el aire comprimido, el oxígeno comprimido, aire líquido y oxígeno líquido en los respiradores de aire suplido y *SCBA* cumplen con:

A. Los requisitos de la *United States Pharmacopoeia* para oxígeno respirable.

B. Los requisitos para Grado D de aire respirable descritos por *ANSI/Compressed Gas Association Commodity Specification for Air*, G-7.1-1989.

También la Oficina, División o Funcionario a Cargo de la Salud y Seguridad Ocupacional/Administrador del Programa y el Supervisor deben asegurarse de que los cilindros que se utilizan para suplir aire a los respiradores cumplan con los siguientes requisitos:

A. Se mantienen y se prueban de acuerdo a lo establecido por el Departamento de Transportación *(Shipping Container Specification Regulations of the Department Of Transportation-49 CFR Part 173 and Part 178)*.

B. Tienen un certificado de análisis del suplidor que dice que el aire respirable cumple con los requisitos para Grado D de aire respirable.

C. El contenido de humedad en el cilindro no debe exceder el punto de condensación de 50° F (-45.6°. C) a una atmósfera de presión.

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XVI. Revisión del Programa

El Programa de Protección Respiratoria se revisará anualmente para verificar la implantación de los procedimientos que contiene el programa. Es responsabilidad de la Oficina, División o Funcionario a Cargo de la Salud y Seguridad Ocupacional/Administrador del Programa evaluar, revisar y actualizar el Programa de Protección Respiratoria de acuerdo a las necesidades de su unidad.

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APÉNDICE B
GUÍA PARA DETERMINAR SI SE REQUIERE ESTABLECER EL PROGRAMA DE PROTECCIÓN RESPIRATORIA

APÉNDICE C

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GUÍA PARA LA SELECCIÓN DE CARTUCHOS

TIPO DE CARTUCHO	COLOR	APROBADO POR *NIOSH* PARA:
Vapores Orgánicos (OV)	Negro	Algunos Vapores Orgánicos.
Vapores Orgánicos/P100 (OV/P100)	Negro/Magenta	Algunos Vapores Orgánicos y Particulado.
Gases Ácidos (AG)	Blanco	Cloro, Cloruro de Hidrógeno y Dióxido de Azufre o Dióxido de Cloro o Sulfuro de Hidrógeno (escape solamente).
Gases Ácidos/P100 (AG/P100)	Blanco/Magenta	Cloro, Cloruro de Hidrógeno y Dióxido de Azufre o Dióxido de Cloro o Sulfuro de Hidrógeno (escape solamente) y Particulado.
Vapores Orgánicos/Gases Ácidos (OV/AG)	Amarillo	Algunos Vapores Orgánicos, Cloro, Cloruro de Hidrógeno y Dióxido de Azufre o Sulfuro de Hidrógeno (escape solamente) o Fluoruro de Hidrógeno.
Vapores Orgánicos/Gases Ácidos/P100 (OV/AG/P100)	Amarillo/Magenta	Algunos Vapores Orgánicos, Cloro, Cloruro de Hidrógeno y Dióxido de Azufre o Sulfuro de Hidrógeno (escape solamente) o Fluoruro de Hidrógeno y Particulado.
Amonia/*Methylamine* (AM/MA)	Verde	Amonia y *Methylamine*.
Amonia/*Methylamine*/P100 (AM/MA/P100)	Verde/Magenta	Amonia y *Methylamine* y Particulado.
Formaldehído/Vapores Orgánicos (FM/OV)	Verde	Formaldehído y Algunos Vapores Orgánicos.
Formaldehído/Vapores Orgánicos/P100 (FM/OV/P100)	Verde/Magenta	Formaldehído y Algunos Vapores Orgánicos y Particulado.
Mercurio (HG)	Anaranjado	Vapor de Mercurio o Cloro.
Mercurio/P100 (HG/P100)	Anaranjado/Magenta	Vapor de Mercurio o Cloro y Particulado.

NOTA: Esta tabla es una traducción que se adaptó de un diagrama *(Respirator Cartridge and Filter Selection)* provisto por la compañía 3M.

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APÉNDICE D

CONFIDENTIAL & PRIVILEGE

CERTIFICACIÓN MÉDICA

Nombre del Empleado:
Puesto que Ocupa:
Unidad de HOMECA a la que Pertenece:
Departamento, División u Oficina:
Nombre del Supervisor:
EVALUACIÓN 1. El empleado tiene autorización para utilizar equipo de protección respiratoria (respiradores) al realizar su trabajo. _____**SI** _____**NO**
2. ¿Tiene alguna limitación de uso? (Si contesta sí, favor explicar o especificar las mismas). _____**SI** _____**NO**
3. El empleado requiere pruebas adicionales o de seguimiento. Si contesta sí, favor indicar fecha. _____**SI** _____**NO** **FECHA (Próxima Evaluación):** _____
Yo,_____**(Nombre Doctor)**_____certifico que el empleado_____**(Nombre Empleado)**_____está médicamente capacitado para utilizar equipo de protección respiratoria (respiradores) conforme a lo que establece la Reglamentación en el 29 *CFR* 1910.134 (e). Firma del Médico:_____ Firma del Empleado:_____ _____ Núm. de Licencia:_____ Fecha:_____

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Registro de Pruebas de Ajuste

Nombre del Empleado:	
Sexo: _____ **F** ____ **M**	**EDAD:** _____
Seguro Social:	
Puesto que Ocupa:	
Firma del Empleado:	
Modelo y Estilo del Respirador:	
Fabricante del Respirador:	
Tamaño del Respirador:	
Número de Certificación de *NIOSH*:	
Tipo de Prueba de Ajuste:	
Cualitativa	**Cuantitativa**
_____*Bitrex*	___ Aceite de Maíz
_____*Isoamyl Acetate*	___ *DEHS*
_____*Saccharin*	___ Sal
_____*Irritant Smoke*	___ *Portacount Method*
	___ *Controlled Negative Pressure (CNP)*
Pasó la prueba: ____ **SÍ**	____ **NO**
Fecha de la prueba:	
Nombre persona que realizó la prueba:	
Firma persona que realizó la prueba:	

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Registro de Inspección de los Respiradores

Nombre del Empleado:
Firma del Empleado:
Fabricante del Respirador:
Modelo y Estilo del Respirador:
Tamaño del Respirador:
¿Pasó la Inspección? ____Sí ____ **NO**
Hallazgos:
Acción Correctiva (si alguna):
Fecha de Inspección:
Nombre del Inspector:
Firma del Inspector:

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DEFINICIONES

1. **Atmósfera Deficiente de Oxígeno**-Atmósfera con una concentración de oxígeno menor de 19.5%.

2. **Exposición del Empleado**-Exposición a contaminantes del aire que ocurre si el empleado no utiliza el equipo de protección respiratoria.

3. **Filtro o Elemento Purificador de Aire**-Componente del respirador que remueve aerosoles líquidos o sólidos del aire que se inhala.

4. **Indicador del Fin de la Vida Útil**-Sistema que le indica al usuario del respirador que se acerca el final de la protección respiratoria adecuada.

5. **Límite de Exposición Permitido**-Concentración máxima de una sustancia a la cual un empleado se expone durante un período de ocho (8) horas sin efectos adversos a la salud.

6. **Respirador de Presión Negativa**-Respirador cuya presión de aire en la pieza de cara (*facepiece*) durante la inhalación es negativa con respecto a la presión de aire ambiental fuera del respirador.

7. **Respirador de Presión Positiva**-Respirador cuya presión dentro de la cubierta respiratoria de entrada (*Respiratory Inlet Covering*) excede la presión ambiental fuera del respirador.

8. **Respirador Purificador de Aire**-El aire pasa a través de un elemento purificador (filtro/cartucho) que remueve de la atmósfera los gases, vapores, aerosoles o una combinación de éstos.

9. **Respirador de Aire Suplido**-Provee aire limpio al usuario, independiente del aire que está en la atmósfera inmediata. El aire respirable lo suple una fuente externa libre de contaminación.

10. **Médico o Profesional de la Salud Certificado**-Individuo autorizado legalmente para proveer independientemente o delegar la responsabilidad de proveer algunos o todos los servicios de salud que requiere la sección (e) de la reglamentación.

11. **Peligro Inmediato a la Vida o la Salud**-Atmósferas que presentan una amenaza inmediata para la vida o salud del individuo. Causan daños irreversibles a la salud y se pueden afectar las habilidades de éste para escapar de atmósferas peligrosas.

12. **Prueba de Ajuste**-Evaluación del ajuste del respirador al rostro del usuario. Se realiza utilizando los protocolos de pruebas cualitativas o cuantitativas.

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APÉNDICE H

HOMECA RECYCLING Inc
Environmental, Coating and Demolition Services

11 de diciembre de 2013

Manuel F. Sánchez Incle
Director
PR OSHA Ponce
PO BOX 7273
Ponce, PR 00716-8110

RE: Adiestramiento de Protección Respiratoria

Estimado Sr. Sánchez:

El adiestramiento de protección respiratoria es parte del adiestramiento anual que se provee esta servidora a los empleados. El mismo es discutido en conjunto con todo el equipo de protección personal que los empleados pudieran utilizar en cualquier momento. Adjunto listas de asistencias de 2012 y 2013 junto con parte la información incluida en la protección respiratoria. Como recurso adicional utilizamos los videos provistos en la página de OSHA.

Esperamos esta información les sea de utilidad.

Cordialmente,

Tamara Echevarría Santiago
Directora Departamento de Cumplimiento
Correo Electrónico: tamara@homecainc.com
Celular: 787-632-6173

Homeca Recycling Center Co, Inc

Hoja de Asistencia Entrenamientos Personal

(Training Employee (s) Attendance)

Fecha/Date: 1 de noviembre de 2012	Hora/Time: 1:00 pm @ 4:00 pm
Entrenador (a)/Trainer: Tamara Echevarría	Facilidad/Facility: Ponce Playa
Tópico Discutido/Topic: Consideraciones Generales de Seguridad	

Empleados Presentes / (Employee (s) Trained): Manual de Empleados Normas, Politicas 001 @ 004

Nombre (Name):	Firma (Sinature):
Juan López	
GERALDO COLLAZO	
MELVIN FELICIANO	
Daniel Vargas Villar	
Jose A. Torres Diaz	
Edwin Alter Matos	
Eliseo Caraballo	
Steven Toro Lopez	
GERALDO COLLAZO	
Alexis Rivera Robles	
EDERICK J. CARIAS	
Miguel A. Collazo	
Osvaldo Jerico	
Ricardo J. Cedeño Cruz	
Jayson L Morales	
Jorge L Torres Matos	
Edgardo Cabrera Melendez	
Juan Rodriguez	
Emilio Bonet	
Harris S. Morales	

Comentarios específicos del entrenamiento (Training Specifics Comments):

Eusebio Fransceschini Rivera — Eusebio Francheschini Rivera

Xiomara Torres — Xiomara Torres Rivera

* Programa de comunicación de Riesgos (Hazcom), Reglas Basicas, Heat Stress, Plan de Emergencias, Uso Extintores, Prevencion Incidentes e Incendios, Uso Equipo de Protección Personal y su mantenimiento. Protocolo violencia domestica

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Homeca Recycling Center Co, Inc

Hoja de Asistencia Entrenamientos Personal

Fecha : 1 de noviembre de 2017	Hora: 8:00am – 12:00md
Entrenador (a): Tamara Echevarría	Facilidad: Ponce Playa
Tópico Discutido: Consideraciones de Seguridad, Normas, Politicas @ Manual de Empleados.	

Empleados Presentes:

	Nombre:	Firma:
OK	Yoema Collazo Ramos	Yoema Collazo Ramos
OK	Angel L Figueroa Stgo	Angel L Figueroa Stgo
OK	Luis I Robles	Luis I Robles
OK	Jorge G. Velazquez Irizarry	Jorge G. Velazquez Irizarry
OK	Emmanuel Santos Juliá	Emmanuel Santos Juliá
OK	Jose Miguel Miranda	Jose Miguel Miranda
OK	Hggo I. Silva García	Hggo I. Silva García
OK	Carlos J. Pizarro Santos	Carlos J. Pizarro Santos
OK	Geanmia Gonzalez Perez	Geanmia Gonzalez Perez
OK	Frank Jorge Cabrera	Frank Jorge Cabrera
OK	Ferdinand Alvarado	Ferdinand Alvarado
OK	Cristobal Solis	Cristobal Solis

Comentarios específicos del entrenamiento:

* Programa de Comunicación de Riesgos (Hazcom)
Uso Equipo Protección Personal y su ~~uso~~ mantenimiento.
Uso Extintores / Plan de Emergencia
Heat Stress / Prevención Incidentes e Incendios
Reglas Básicas, Protocolo violencia doméstica

Homeca Recycling Center Co, Inc

Hoja de Asistencia Entrenamientos Personal

(Training Employee (s) Attendance)

Fecha/Date: 30 de noviembre de 2013	Hora/Time: 8:00 am
Entrenador (a)/Trainer: Tamara Echevarria	Facilidad/Facility: Ponce Playa
Tópico Discutido/Topic: Introducción OSha / Politicas Empresa 001@005	

Empleados Presentes / (Employee (s) Trained):

Nombre (Name):	Firma (Sinature):
Jonathan A. Barrera Feliciano	
Steven Toro López	
Alexis Cintrón	
Alexis Rivera	
Ferdinand Alvarado	
Jose A. Torres Diaz	
Efrain Colon	

Comentarios específicos del entrenamiento (Training Specifics Comments): Se discutió el uso del celular y manejo de fotos en redes sociales. Protocolo Violencia Domestica / Nuevo Protocolo Discrimen por Orientacion Sexual / Cambios Hazcom - formato GHS / Prevención Caidos / Equipo Protección Personal / Hazmat / Procedimiento de Emergencia. Se entregó targeta Pictograma / Pavo Card / Stickers Capacete y Hoja Información USO ARNES.

Form SWPPP2

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Homeca Recycling Center Co, Inc

Hoja de Asistencia Entrenamientos Personal

(Training Employee (s) Attendance)

Fecha/Date: 30 de noviembre de 2013	Hora/Time: 12:30 pm
Entrenador (a)/Trainer: Tamara Echevarría	Facilidad/Facility: Ponce Playa
Tópico Discutido/Topic: Introducción a OSHA / Políticas Empresa con EPOS	

Empleados Presentes / (Employee (s) Trained):

Nombre (Name):	Firma (Sinature):
Robert Cadea Colón	Robert Cadea Colón
Wilfredo Vega Lambay	Wilfredo Vega
Luis D. Francisco	Luis D. Francisco
Julio Acevedo	Julio Acevedo
Christian Torres Torres	Christian Torres
Carlos J. Pizarro Santos	Carlos J. Pizarro

Comentarios específicos del entrenamiento (Training Specifics Comments): Se discutió el uso del celular y manejo de fotos en redes sociales. Protocolo Violencia Doméstica / Nuevo Protocolo Discrimen por Orientación Sexual / Cambios HAZCOM- Formato GHS / Prevención caídas / Equipo Protección Personal / HAZMAT / Procedimiento de Emergencia. Se entregó tarjeta Pictograma / Pavo Cord / Sticker Capacete y Hoja Informativa uso ARNES.

Form SWPPP2

Homeca Recycling Center Co, Inc

Hoja de Asistencia Entrenamientos Personal

(Training Employee (s) Attendance)

Fecha/Date: 25 de noviembre de 2013	Hora/Time: 7:00am
Entrenador (a)/Trainer: Tamara Echevarria	Facilidad/Facility: Proyecto Shell Yabucoa

Tópico Discutido/Topic: Introducción OSHA / Políticas Empresa (001 @ 005) y Protocolo Violencia Domestica / Nueva Protocolo Discrimen por Orientación Sexual / Cambios HAZCOM – Formato GHS / Prevención de Caídas / Equipo Protección Personal / HAZMAT /

Empleados Presentes / (Employee (s) Trained):

Nombre (Name):	Firma (Signature):
1. Benjamin Cintron Pagan	
2. Jose M. Rodriguez Cora	Jose M. Rodriguez C
3. Milagros Figueroa	Milagros Figueroa
4. Felix R. Valentin Cora	
5. Jose E Santiago Delgado	
6. Emmanuel Ramos Maldonado	Emmanuel Ramos Maldonado
7. Hector Montañez	
8. Eric X. Tirado	
9. Hector B. Montañez	
10. Luis A Ortiz Rivera	
11. Eliezer Caraballo	Eliezer Caraballo
12. Javier Pabon morales	Javier Pabon morales
13.	
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Comentarios específicos del entrenamiento (Training Specifics Comments):

Se les entrego Hoja Informativa sobre el Arnés, Tarjeta GHS y Pavo Card.

Otros Temas, Según Tiempo Permita: Se discutió uso celular y manejo de fotos en redes sociales

Homeca Recycling Center Co, Inc

Hoja de Asistencia Entrenamientos Personal

(Training Employee (s) Attendance)

Fecha/Date: 23 de noviembre de 2013	Hora/Time: 1:00pm
Entrenador (a)/Trainer: Tamara Echevarria	Facilidad/Facility: Ponce Playa
Tópico Discutido/Topic: Introduccion a OSHA / Politicas Empresa 001@005	

Empleados Presentes / (Employee (s) Trained):

Nombre (Name):	Firma (Sinature):
Christian Melendez Vargas	
Jose De Jesus Cruz	
Hector L. Avilés	Hector L. Avilés

Comentarios especificos del entrenamiento (Training Specifics Comments): Se discutió el uso del celular y manejo de fotos en redes sociales. Protocolo Violencia Domestica / Nuevo Protocolo Discrimen por Orientación Sexual / Cambios HAZCOM-Formato GHS / Prevención Caidas Equipo Proteccion Personal / HAZMAT / Procedimiento de Emergencia. Se entregó tarjeta Pictogramas / PanoCard / Sticker Capacete y hoja Informativa USO Arnes.

Homeca Recycling Center Co, Inc

Hoja de Asistencia Entrenamientos Personal

(Training Employee (s) Attendance)

Fecha/Date: 23 de noviembre de 2013	Hora/Time: 7:00am
Entrenador (a)/Trainer: Tamara Echevarria	Facilidad/Facility: Ponce Playa
Tópico Discutido/Topic: Introducción OSHA / Políticas Empresa (001 @ 005) y Protocolo Violencia Domestica / Nueva Protocolo Discrimen por Orientación Sexual / Cambios HAZCOM – Formato GHS / Prevención de Caidas / Equipo Protección Personal / HAZMAT /	

Empleados Presentes / (Employee (s) Trained):

Nombre (Name):	Firma (Sinature):
1. Edgarda Galarza Velazquez	Edgarda Galarza Velazquez
2. Jorge L Torres Matos	Jorge L Torres Matos
3. Eusebio Francheschini Román	Eusebio Francheschini Román
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Comentarios específicos del entrenamiento (Training Specifics Comments):

Se les entrego Hoja Informativa sobre el Arnés, Tarjeta GHS y Pavo Card.

Otros Temas, Según Tiempo Permita: Se discutió el uso del celular y manejo de fotos en redes sociales

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Homeca Recycling Center Co, Inc

Hoja de Asistencia Entrenamientos Personal

(Training Employee (s) Attendance)

Fecha/Date: 22 de noviembre de 2013	Hora/Time: 7:00am
Entrenador (a)/Trainer: Tamara Echevarria	Facilidad/Facility: Ponce Playa
Tópico Discutido/Topic: Introducción OSHA / Políticas Empresa (001 @ 005) y Protocolo Violencia Domestica / Nueva Protocolo Discrimen por Orientación Sexual / Cambios HAZCOM – Formato GHS / Prevención de Caídas / Equipo Protección Personal / HAZMAT /	

Empleados Presentes / (Employee (s) Trained):

Nombre (Name):	Firma (Sinature):
1. Osvaldo Feliciano Ruz	
2. Angel I Silva Garcia	
3. Juan D. Rosario Cruz	
4. Ashley José Hernández Torres	
5. Armando Torres	
6. Kelvin J. Rosario	
7. José L. Perez	
8. Domingo de Jesús	
9. Eliseo Caraballo	
10.	
11.	
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17.	

Comentarios especificos del entrenamiento (Training Specifics Comments):

Se les entrego Hoja Informativa sobre el Arnés, Tarjeta GHS y Pavo Card.

Otros Temas, Según Tiempo Permita: Se discutió uso de celular y manejo de fotos en redes sociales.

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Homeca Recycling Center Co, Inc

Hoja de Asistencia Entrenamientos Personal

(Training Employee (s) Attendance)

Fecha/Date: 16 de noviembre de 2013	Hora/Time: 7:00am
Entrenador (a)/Trainer: Tamara Echevarria	Facilidad/Facility: Ponce Playa

Tópico Discutido/Topic: Introducción OSHA / Inspecciones, Citaciones, Penalidades OSHA / Procedimiento de Cotejo Cumplimiento Seguridad Proyectos / Políticas Empresa (001 @ 005) y Protocolo Violencia Domestica / Nueva Protocolo Discrimen por Orientación Sexual / Cambios HAZCOM – Formato GHS / Prevención de Caídas / Equipo Protección Personal / HAZMAT /

Empleados Presentes / (Employee (s) Trained):

Nombre (Name):	Firma (Sinature):
1. Norma Collazo Ramos	Norma Collazo
2. Federick J. Cequiss	Federick J. Cequiss
3. Emmanuel Santos Julia	E Santos Julia
4. Emilio Bonet Echevarria	Emilio Bonet
5. Luis R Cartagena	Luis R. Cartagena
6. Gerardo Collazo	Gerardo Collazo
7. Harris Morales	Harris Morales
8. Cairma I. Sanchez Lopez	Cairma I. Sanchez Lopez
9. Christopher Lugo	Christopher Lugo
10. Melvin Feliciano	Melvin Feliciano
11. Geraldo de Jesus	Geraldo de Jesus
12. Xiomara Torres	Xiomara Torres
13.	
14.	
15.	
16.	
17.	

Comentarios especificos del entrenamiento (Training Specifics Comments):

Se les entrego copia de la ley 16 de Salud y Seguridad, Hoja de Cotejo de Seguridad, Ejemplo de Análisis de Riesgo por Tareas, Hoja Informativa sobre el Arnés, Tarjeta GHS y Pavo Card.

Otros Temas, Según Tiempo Permita: Se discutió uso de celular y manejo de fotos en redes sociales.

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Homeca Recycling Center Co, Inc

Hoja de Asistencia Entrenamientos Personal

(Training Employee (s) Attendance)

Fecha/Date: 16 de noviembre de 2013	Hora/Time: 7:00am
Entrenador (a)/Trainer: Tamara Echevarria	Facilidad/Facility: Ponce Playa
Tópico Discutido/Topic: Introducción OSHA / Políticas Empresa (001 @ 005) y Protocolo Violencia Domestica / Nueva Protocolo Discrimen por Orientación Sexual / Cambios HAZCOM – Formato GHS / Prevención de Caídas / Equipo Protección Personal / HAZMAT /	

Empleados Presentes / (Employee (s) Trained):

Nombre (Name):	Firma (Sinature):
1. Edgar Roman Garcia	Edgar Roman Garcia
2. Jose E Gonzalez	
3. Angel Izquierdo Soto	
4. David Vargas Villa	
5 Reinaldo Lopez	
6. Ismael Bones	
7. Germania Gonzalez Pinet	
8. Juan Rodriguez	
9. MOISES BARRETO AVILES	
10. Jorge L. Velazquez Irizarry	
11.	
12.	
13.	
14.	
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16.	
17.	

Comentarios específicos del entrenamiento (Training Specifics Comments):

Se les entrego Hoja Informativa sobre el Arnés, Tarjeta GHS y Pavo Card.

Otros Temas, Según Tiempo Permita: Se discutió uso de celular y manejo de fotos en redes sociales.

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#Se entrego Wallet Card

Homeca Recycling Center Co, Inc.

HGS Pictograms and PPE

Hoja de Asistencia Entrenamientos Personal

(Training Employee (s) Attendance)

Fecha/Date: 17 marzo 2013	Hora/Time: 8:00am - 12:00md
Entrenador (a)/Trainer: Tamara Eduarte	Facilidad/Facility: Ponce Playa
Tópico Discutido/Topic: Hazcom | Hazmat | PPE | Uso Celular	

Empleados Presentes / (Employee (s) Trained):

	Nombre (Name):	Firma (Sinature):	
1.	Josshua Benitez		(1)
2.	Roberto Cruz		(2)
3.	Julio Cesar Melendez		(3)
4.	Antonio Gazbes		(4)
5.	Estali Orengo Baez		(5)
6.	Ruben A Rolon		(6)
7.	Edson Figueroa		(7)
8.	Amanda Torres		(8)
9.	Edgar Roman		(9)
10.	Gerardo de Jesus		(10)
11.	Jose E Gonzalez		(11)
12.	Jonathan Correa Cruz		(12)
13.	Kevin J Pij Pij		(13)
14.	Angel Javier R.		(14)
15.	Carlos A Cosme		(15)
16.	Christian Rivera		(16)
17.	Jorge Rodas Valentin		(17)
18.	Alexis Delgado		(18)
19.	Efrain Calcaño		(19)
20.	Jose Rivera		(20)

Comentarios específicos del entrenamiento (Training Specifics Comments):

Angel L Miranda		(21)
Efrain Colon de J		(22)
Alberto Vera		(23)
Manuel Ortiz Ortiz		(24)
Norman James Jones		(25)
Raul Hernandez		(26)

Form SWPPP2

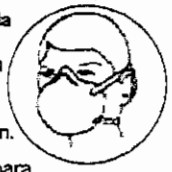
OSHA DATOS RÁPIDOS

Protéjase
Respiradores

Protección respiratoria debe ser llevada cuando usted esta trabajando en una atmósfera peligrosa. El respirador apropiado va a depender de los contaminantes a los cuales usted estará expuesto y los factores de protección requeridos. Respiradores requeridos debén ser aprovados por el Instituto Nacional de Seguridad y Salud Ocupacional (iniciales en inglés - NIOSH) evaluación médica y capacitación debe ser provista antes de usarlo.



Máscaras para polvos de una correa no son usualmente aprovadas por NIOSH. Ellas no debén ser usadas para protegerse de atmósferas peligrosas. Aunque, ellas son útiles proveyendo comodidad contra el polen y otras alergias.



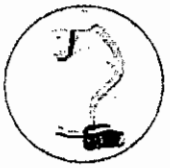
Las mascaras faciales (máscaras de polvo) aprovada pueden ser usadas contra polvo, emisiones de vapores, humos de soldadura, etc. Ellas no proveen protección contra gases o vapores. NO LO USE PARA ASBESTO O PLOMO; en cambio, seleccione uno de los respiradores mencionados a continuación.



Respirador facial a media cara pueden ser usado para protección contra la mayoría de los vapores, gases ácidos, polvo o humo de soldaduras. Cartuchos/filtros deben hacer juego con los contaminantes y ser cambiados periodicamente.



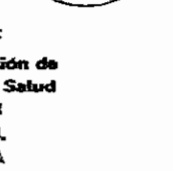
Respirador facial de cara completa ofrecen mas protección que el respirador a media cara. Ellos pueden ser usados para protección contra la mayoría de los vapores, gases ácidos, polvo o humo de soldaduras. La protección de la cara proteje la cara y ojos de irritaciones y contaminantes. Cartuchos/filtros deben hacer juego con los contaminantes y ser cambiados periodicamente.



Respirador con purificador de aire motorizado (iniciales en inglés - PAPR) ofrecen una respiración cómoda atravez de un ábanico cargado con baterías el cual tira aire atravez de un filtro y circula aire por todas las partes del capacete/capucha. Ellos pueden ser usados por la mayoría de los trabajadores que tienen barbas. Cartuchos/filtors deben hacer juego con los contaminantes y ser cambiados periodicamente.

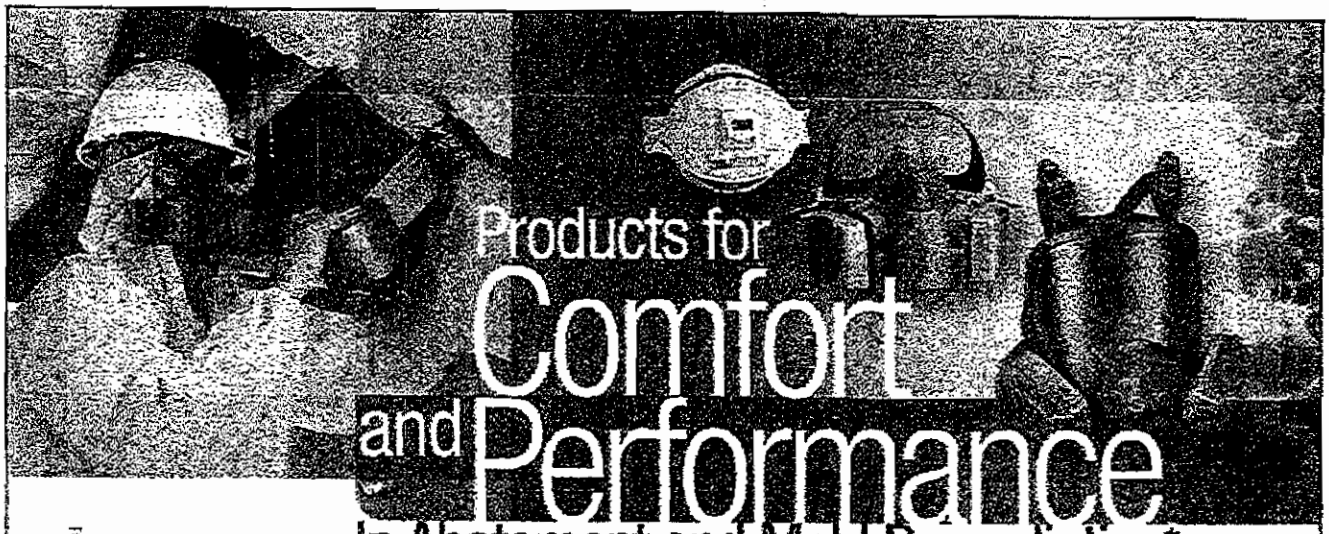


Aparato de respiración autónomo (Inicialesen inglés - SCBA) es usado para entrar y salir de una atmósfera que es considerada inmediatamente peligrosa para la vida y salud (iniciales en inglés - IDLH) o deficiente de oxígeno. Ellos usan su propio tanque de aire.



Para información más completa:

OSHA Administración de Seguridad y Salud Ocupacional
Departamento del Trabajo de EE.UU.
www.osha.gov (800) 321-OSHA



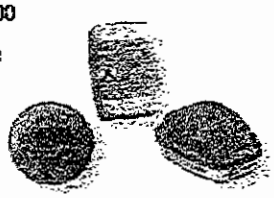
Products for Comfort and Performance In Abatement and Mold Remediation*

©3M 2004. All rights reserved.

Restoration and industrial hygiene professionals can find products for their respiratory protection needs with 3M.

For small areas of mold, use 3M™ Particulate Respirator 9211, N95 Halfold or 3M™ Particulate Respirator 8577, P95, with nuisance level organic vapor relief.

For up to 100 square feet, use the 3M™ Half Facepiece Respirator 7500 Series, which comes with 3M's unique Cool Flow™ Exhalation Valve to help make breathing easier and reduce heat and moisture buildup in the facepiece.



All 3M™ Filters and Cartridges are interchangeable.

For larger areas, the 3M™ Mold Remediation Kit includes everything you need for respiratory protection: a lightweight, durable 3M™ Full Facepiece Respirator 6000 Series, two pair of 2097 Filters, and an educational mold remediation brochure.

For more information on these and other innovative 3M products in the U.S., call Technical Assistance at 1-800-243-4630, the Customer Care Center at 1-800-328-1667, or visit 3M.com/OccSafety.



3M™ Mold Remediation Kit

*For more information on mold remediation, go to www.epa.gov

3M™ and Aramsco, helping professionals like you make the perfect 3M™ product choice.

Aramsco®
A SAFEGUARD INDUSTRIAL COMPANY

3M

800-767-6933 • www.aramsco.com

Inspection, Cleaning and Storage Procedures for Reusable Respirators

Inspection

Respirators must be inspected before each use to ensure good operating condition. The facepiece must be repaired or replaced if there are damaged or defective parts. The following inspection procedure is suggested:

1. Check facepiece for cracks, tears and dirt. Be certain facepiece, especially faceseal area, is not distorted.

2. Examine inhalation valves for signs of distortion, cracking or tearing.

3. Make sure that head straps are intact and have good elasticity.

4. Examine all plastic parts for signs of cracking or fatiguing. Make sure filter gaskets or seal areas are in good condition.

5. Remove exhalation valve cover and examine exhalation valve and valve seat for signs of dirt, distortion, cracking or tearing. Replace exhalation valve cover.

6. Inspect lens of full facepiece for any damage that may impair respirator performance or vision.

Cleaning and Storage

Cleaning is recommended after each use.

Cleaning Wipes may be used as an interim method in the cleaning schedule for individually assigned respirators, but they must not be the only method in place. During fit testing, wipes may also be used between employees being tested. However, these respirators must be thoroughly cleaned at the end of each day.

1. Remove cartridges and filters.

2. Clean facepiece (excluding filters and cartridges) by immersing in warm cleaning solution, water temperature not to exceed 120° F (49° C), and scrub with soft brush until clean. Add neutral detergent if necessary. Do not use cleaners containing lanolin or other oils.

3. Disinfect facepiece by soaking in a solution of quaternary ammonia disinfectant or sodium hypochlorite (1 oz [30 mL] household bleach in 2 gallons [7.5 L] of water), or other disinfectant.

4. Rinse in fresh, warm water and air dry in noncontaminated atmosphere.

5. Respirator components must be inspected prior to each use. A respirator with any damaged or deteriorated components must be repaired or discarded.

6. The cleaned respirator should be stored away from contaminated areas when not in use.

⚠ WARNING

Do not clean with solvents. Cleaning with solvents may degrade some respirator components and reduce respirator effectiveness. Inspect all respirator components before each use to ensure good operating condition. Failure to do so may result in sickness or death.

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Respiratory Protection Facts

Contaminant and Hazard Types

Particulates are tiny pieces of matter. Either "dust", which is a dry particle or a "mist" which is in liquid form. Particulates can irritate the respiratory system and cause irritability.

Vapors can't be seen but they can be very dangerous when inhaled. It can damage your respiratory system as well as other organs.

Gases can't be seen and may be odorless, but they are in the air around us.

Fumes are created from burning or liquifying a solid material. Like other contaminants, fumes can't be seen by the naked eye and can cause damage, so respiratory protection is necessary.

Respirator Styles

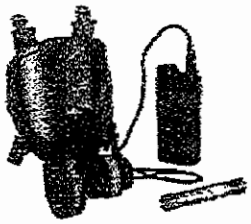
Self-Contained Breathing Apparatus —
SCBA designed to let users transport their own air supply. The SCBA is excellent for oxygen deficient areas that take place in confined environments.



Reusable (Air Purifying) Respirators —
Suitable for negative or positive pressures uses. Offers comfort, versatility and long life. Replacement parts are usually available. Use filters and/or cartridges.



Powered (Air Purifying) Respirators —
PAPR battery powered units that deliver a continuous flow of filtered air. Available with many options ranging from facepieces, helmets to hoods.



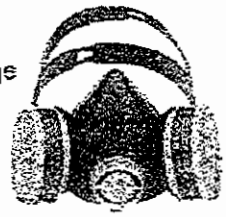
Maintenance-Free (Air Purifying) Respirators —
Already assembled with a variety of chemical and gas cartridges. Economically priced and can be disposable.



Disposable (Air Purifying) Respirators —
Economical, comfortable and lightweight. Available in a variety of technologies and features.



Low-Maintenance (Air Purifying) Respirators —
Provide the ability to interchange cartridges, prefilters and filters. Economical protection with the flexibility of reusable respirators.



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Respiratory Protection Facts

Filter Classification

N Series Filters are those restricted to use in environments free of oil aerosols. Can be used for any solid or liquid airborne particulate hazards that does not contain oil.

N95 Particulate Filters are at least 95% filter efficient when tested with -0.3um NaCl aerosol.

N99 Particulate Filters are at least 99% filter efficient when tested with -0.3um NaCl aerosol.

N100 Particulate Filters are at least 99.97% filter efficient when tested with -0.3um NaCl aerosol.

R Series Filters are intended for removal of any particulate including oil based liquid aerosol.

R95 Particulate Filters are at least 95% filter efficient when tested with -0.3um DOP (Dioctyl Phthalate) aerosol.

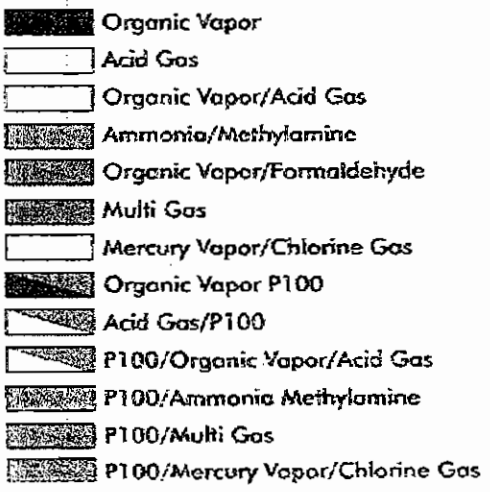
P Series Filters are intended for removal of any particulate including oil based liquid aerosols. They may be used for any solid or liquid particulate airborne hazards. Filters should not be used for more than 40 hours or 30 days, whichever occurs first.

P95 Particulate Filters are at least 95% filter efficient when tested with -0.3um DOP (Dioctyl Phthalate) aerosol.

P100 Particulate Filters are at least 99.97% filter efficient when tested with -0.3um DOP (Dioctyl Phthalate) aerosol.

NIOSH 42CFR84: Particulate Respirator Filter Definitions

Filter Series	Filter Designation	Min. Efficiency
N (Non-Oil)	N100	99.97%
N99		99%
N95		95%
R (Oil-Resistant)	R100	99.97%
R99		99%
R95		95%
P (Oil-Proof)	P100	99.97%
P99		99%
P95		95%



Pre-Placement Physical Examination

HOMECA RECYCLING
1575 AVE, MUÑOZ RIVERA
PMB #120
PONCE, PR 00717

Patient Name: JORGE E. VELAZQUEZ-IRIZARRY

Position: LABOR

Procedures:

General Physical Examination	Spirometry test
X-Ray	Lead Blood
CBC	U/A

Physician's statement:

I have examined the patient named above. I have also reviewed the results of the test listed above. The employee has answered Medical Evaluation Questionnaire, Appendix C, OSHA 29 CFR 1910.134(e), and undergone a Physical Examination as per OSHA 29 CFR 1910.134(b)(10) and 29 CFR 1926.1101, Medical Section of Asbestos Ruling, and Toxic and Hazardous Substances Standard 1910.1025(j)(3)(i)(A) to 1910.1025(k)(2)(vii) related to Lead exposure. We found this person:

✓ Qualified to use a respirator and comply with Asbestos medical standard and Lead medical surveillance program. I find the person physically fit to perform general work.

____ I find the person has the following impairment(s) and have noted where the following accommodations are necessary to perform the job as defined. _____

_____

____ I find the person **cannot** perform the job as defined.

Physician's Comments: Influenza vaccine recommended. Should continue Diabetes care with personal MD

Physician's signature

10/7/13
Date

Pre-Placement Physical Examination

HOMECA RECYCLING
1575 AVE, MUÑOZ RIVERA
PMB #120
PONCE, PR 00717

Patient Name: JORGE L. TORRES-MATOS

Position: LABOR

Procedures:

General Physical Examination	Spirometry test
X-Ray	Lead Blood
CBC	U/A

Physician's statement:

I have examined the patient named above. I have also reviewed the results of the test listed above. The employee has answered Medical Evaluation Questionnaire, Appendix C, OSHA 29 CFR 1910.134(e), and undergone a Physical Examination as per OSHA 29 CFR 1910.134(b)(10) and 29 CFR 1926.1101, Medical Section of Asbestos Ruling, and Toxic and Hazardous Substances Standard 1910.1025(j)(3)(i)(A) to 1910.1025(k)(2)(vii) related to Lead exposure. We found this person:

✓ Qualified to use a respirator and comply with Asbestos medical standard and Lead medical surveillance program. I find the person physically fit to perform general work.

____ I find the person has the following impairment(s) and have noted where the following accommodations are necessary to perform the job as defined. _____

_____

____ I find the person **cannot** perform the job as defined.

Physician's Comments: Tdap and influenza vaccines recommended

Physician's signature

10/7/15
Date

Pre-Placement Physical Examination

HOMECA RECYCLING
1575 AVE, MUÑOZ RIVERA
PMB #120
PONCE, PR 00717

Patient Name: HARRIS MORALES-SANTIAGO

Position: SUPERVISOR

Procedures:

General Physical Examination	Spirometry test
X-Ray	Lead Blood
CBC	U/A

Physician's statement:

I have examined the patient named above. I have also reviewed the results of the test listed above. The employee has answered Medical Evaluation Questionnaire, Appendix C, OSHA 29 CFR 1910.134(e), and undergone a Physical Examination as per OSHA 29 CFR 1910.134(b)(10) and 29 CFR 1926.1101, Medical Section of Asbestos Ruling, and Toxic and Hazardous Substances Standard 1910.1025(j)(3)(i)(A) to 1910.1025(k)(2)(vii) related to Lead exposure. We found this person:

✓ Qualified to use a respirator and comply with Asbestos medical standard and Lead medical surveillance program. I find the person physically fit to perform general work.

____ I find the person has the following impairment(s) and have noted where the following accommodations are necessary to perform the job as defined. _____

_____

____ I find the person **cannot** perform the job as defined.

Physician's Comments: Should see personal MD for blood presure control. Tdap and influenza vaccines recommended

Physician's signature

10/7/13
Date

001714

Pre-Placement Physical Examination

HOMECA RECYCLING

1575 AVE, MUÑOZ RIVERA
PMB #120
PONCE, PR 00717

Patient Name: OSVALDO FELICIANO-RUIZ

Position: LABOR

Procedures:

General Physical Examination	Spirometry test
X-Ray	Lead Blood
CBC	U/A

Physician's statement:

I have examined the patient named above. I have also reviewed the results of the test listed above. The employee has answered Medical Evaluation Questionnaire, Appendix C, OSHA 29 CFR 1910.134(e), and undergone a Physical Examination as per OSHA 29 CFR 1910.134(b)(10) and 29 CFR 1926.1101, Medical Section of Asbestos Ruling, and Toxic and Hazardous Substances Standard 1910.1025(j)(3)(i)(A) to 1910.1025(k)(2)(vii) related to Lead exposure. We found this person:

✓ Qualified to use a respirator and comply with Asbestos medical standard and Lead medical surveillance program. I find the person physically fit to perform general work.

____ I find the person has the following impairment(s) and have noted where the following accommodations are necessary to perform the job as defined. _____

____ I find the person **cannot** perform the job as defined.

Physician's Comments: Td ap and influenza vaccine recommended

Physician's signature

10/7/13
Date

Pre-Placement Physical Examination

HOMECA RECYCLING
1575 AVE, MUÑOZ RIVERA
PMB #120
PONCE, PR 00717

Patient Name: DANIEL VARGAS-VILLAR

Position: LABOR

Procedures:

General Physical Examination	Spirometry test
X-Ray	Lead Blood
CBC	U/A

Physician's statement:

I have examined the patient named above. I have also reviewed the results of the test listed above. The employee has answered Medical Evaluation Questionnaire, Appendix C, OSHA 29 CFR 1910.134(e), and undergone a Physical Examination as per OSHA 29 CFR 1910.134(b)(10) and 29 CFR 1926.1101, Medical Section of Asbestos Ruling, and Toxic and Hazardous Substances Standard 1910.1025(j)(3)(i)(A) to 1910.1025(k)(2)(vii) related to Lead exposure. We found this person:

✓ Qualified to use a respirator and comply with Asbestos medical standard and Lead medical surveillance program. I find the person physically fit to perform general work.

____ I find the person has the following impairment(s) and have noted where the following accommodations are necessary to perform the job as defined. _____

_____

____ I find the person **cannot** perform the job as defined.

Physician's Comments: Td op and influenza vaccines recommended.

Physician's signature

10/2/13
Date

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Pre-Placement Physical Examination

HOMECA RECYCLING
1575 AVE, MUÑOZ RIVERA
PMB #120
PONCE, PR 00717

Patient Name: JUAN RODRIGUEZ-RIVERA

Position: TECHN.

Procedures:

General Physical Examination	Spirometry test
X-Ray	Lead Blood
CBC	U/A

Physician's statement:

I have examined the patient named above. I have also reviewed the results of the test listed above. The employee has answered Medical Evaluation Questionnaire, Appendix C, OSHA 29 CFR 1910.134(e), and undergone a Physical Examination as per OSHA 29 CFR 1910.134(b)(10) and 29 CFR 1926.1101, Medical Section of Asbestos Ruling, and Toxic and Hazardous Substances Standard 1910.1025(j)(3)(i)(A) to 1910.1025(k)(2)(vii) related to Lead exposure. We found this person:

✓ Qualified to use a respirator and comply with Asbestos medical standard and Lead medical surveillance program. I find the person physically fit to perform general work.

____ I find the person has the following impairment(s) and have noted where the following accommodations are necessary to perform the job as defined. _____

_____

____ I find the person **cannot** perform the job as defined.

Physician's Comments: _____

_____

Physician's signature

10/7/13
Date

Pre-Placement Physical Examination

HOMECA RECYCLING
1575 AVE, MUÑOZ RIVERA
PMB #120
PONCE, PR 00717

Patient Name: EMILIO BONET-ECHEVARRIA

Position: SUPERVISOR

Procedures:

General Physical Examination	Spirometry test
X-Ray	Lead Blood
CBC	U/A

Physician's statement:

I have examined the patient named above. I have also reviewed the results of the test listed above. The employee has answered Medical Evaluation Questionnaire, Appendix C, OSHA 29 CFR 1910.134(e), and undergone a Physical Examination as per OSHA 29 CFR 1910.134(b)(10) and 29 CFR 1926.1101, Medical Section of Asbestos Ruling, and Toxic and Hazardous Substances Standard 1910.1025(j)(3)(i)(A) to 1910.1025(k)(2)(vii) related to Lead exposure. We found this person:

✓ Qualified to use a respirator and comply with Asbestos medical standard and Lead medical surveillance program. I find the person physically fit to perform general work.

____ I find the person has the following impairment(s) and have noted where the following accommodations are necessary to perform the job as defined. _____

_____

____ I find the person **cannot** perform the job as defined.

Physician's Comments: Urine exam should be repeated. Should consult personal MD about that. Td op and influenza vaccines recommended.

_____ 10/7/15
Physician's signature Date

001719

Pre-Placement Physical Examination

HOMECA RECYCLING
1575 AVE, MUÑOZ RIVERA
PMB #120
PONCE, PR 00717

Patient Name: ALEXIS RIVERA-ROBLES

Position: LABOR

Procedures:

General Physical Examination	Spirometry test
X-Ray	Lead Blood
CBC	U/A

Physician's statement:

I have examined the patient named above. I have also reviewed the results of the test listed above. The employee has answered Medical Evaluation Questionnaire, Appendix C, OSHA 29 CFR 1910.134(e), and undergone a Physical Examination as per OSHA 29 CFR 1910.134(b)(10) and 29 CFR 1926.1101, Medical Section of Asbestos Ruling, and Toxic and Hazardous Substances Standard 1910.1025(j)(3)(i)(A) to 1910.1025(k)(2)(vii) related to Lead exposure. We found this person:

✓ Qualified to use a respirator and comply with Asbestos medical standard and Lead medical surveillance program. I find the person physically fit to perform general work.

____ I find the person has the following impairment(s) and have noted where the following accommodations are necessary to perform the job as defined. _____

_____

____ I find the person **cannot** perform the job as defined.

Physician's Comments: Tdap and Influenza vaccine recommended.

Physician's signature

10/7/13
Date

Pre-Placement Physical Examination

HOMECA RECYCLING
1575 AVE, MUÑOZ RIVERA
PMB #120
PONCE, PR 00717

Patient Name: MELVIN FELICIANO-APONTE

Position: SUPERVISOR

Procedures:

General Physical Examination	Spirometry test
X-Ray	Lead Blood
CBC	U/A

Physician's statement:

I have examined the patient named above. I have also reviewed the results of the test listed above. The employee has answered Medical Evaluation Questionnaire, Appendix C, OSHA 29 CFR 1910.134(e), and undergone a Physical Examination as per OSHA 29 CFR 1910.134(b)(10) and 29 CFR 1926.1101, Medical Section of Asbestos Ruling, and Toxic and Hazardous Substances Standard 1910.1025(j)(3)(i)(A) to 1910.1025(k)(2)(vii) related to Lead exposure. We found this person:

__✓__ Qualified to use a respirator and comply with Asbestos medical standard and Lead medical surveillance program. I find the person physically fit to perform general work.

____ I find the person has the following impairment(s) and have noted where the following accommodations are necessary to perform the job as defined. _____

_____

____ I find the person **cannot** perform the job as defined.

Physician's Comments: Tdap and influenza vaccines recommended.

Physician's signature

10/7/13
Date

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Pre-Placement Physical Examination

HOMECA RECYCLING
1575 AVE, MUÑOZ RIVERA
FMB #120
PONCE, PR 00717

Patient Name: EDERICK J. CAQUIAS-VELAZQUEZ

Position: LABOR

Procedures:

General Physical Examination	Spirometry test
X-Ray	Lead Blood
CBC	U/A

Physician's statement:

I have examined the patient named above. I have also reviewed the results of the test listed above. The employee has answered Medical Evaluation Questionnaire, Appendix C, OSHA 29 CFR 1910.134(e), and undergone a Physical Examination as per OSHA 29 CFR 1910.134(b)(10) and 29 CFR 1926.1101, Medical Section of Asbestos Ruling, and Toxic and Hazardous Substances Standard 1910.1025(j)(3)(i)(A) to 1910.1025(k)(2)(vii) related to Lead exposure. We found this person:

____ Qualified to use a respirator and comply with Asbestos medical standard and Lead medical surveillance program. I find the person physically fit to perform general work.

__✓__ I find the person has the following impairment(s) and have noted where the following accommodations are necessary to perform the job as defined. Hernia - Should not do any straining.

____ I find the person **cannot** perform the job as defined.

Physician's Comments: Must be seen by surgeon for hernia evaluation.

Physician's signature

10/7/13
Date

Pre-Placement Physical Examination

HOMECA RECYCLING
1575 AVE, MUÑOZ RIVERA
PMB #120
PONCE, PR 00717

Patient Name: EUSEBIO FRANCESCHINI-ROMAN

Position: LABOR

Procedures:

General Physical Examination	Spirometry test
X-Ray	Lead Blood
CBC	U/A

Physician's statement:

I have examined the patient named above. I have also reviewed the results of the test listed above. The employee has answered Medical Evaluation Questionnaire, Appendix C, OSHA 29 CFR 1910.134(e), and undergone a Physical Examination as per OSHA 29 CFR 1910.134(b)(10) and 29 CFR 1926.1101, Medical Section of Asbestos Ruling, and Toxic and Hazardous Substances Standard 1910.1025(j)(3)(i)(A) to 1910.1025(k)(2)(vii) related to Lead exposure. We found this person:

✓ Qualified to use a respirator and comply with Asbestos medical standard and Lead medical surveillance program. I find the person physically fit to perform general work.

____ I find the person has the following impairment(s) and have noted where the following accommodations are necessary to perform the job as defined. _____

_____

____ I find the person **cannot** perform the job as defined.

Physician's Comments: Tdap and Influenza needs recommended

Physician's signature

10/2/15
Date

001723

Pre-Placement Physical Examination

HOMECA RECYCLING
1575 AVE, MUÑOZ RIVERA
PMB #120
PONCE, PR 00717

Patient Name: FERDINAND ALVARADO-RODRIGUEZ

Position: LABOR

Procedures:

General Physical Examination	Spirometry test
X-Ray	Lead Blood
CBC	U/A

Physician's statement:

I have examined the patient named above. I have also reviewed the results of the test listed above. The employee has answered Medical Evaluation Questionnaire, Appendix C, OSHA 29 CFR 1910.134(e), and undergone a Physical Examination as per OSHA 29 CFR 1910.134(b)(10) and 29 CFR 1926.1101, Medical Section of Asbestos Ruling, and Toxic and Hazardous Substances Standard 1910.1025(j)(3)(i)(A) to 1910.1025(k)(2)(vii) related to Lead exposure. We found this person:

_✓_ Qualified to use a respirator and comply with Asbestos medical standard and Lead medical surveillance program. I find the person physically fit to perform general work.

____ I find the person has the following impairment(s) and have noted where the following accommodations are necessary to perform the job as defined. _____

____ I find the person **cannot** perform the job as defined.

Physician's Comments: Tdap & Influenza vaccines recommended.

Physician's signature

10/7/13
Date

001724

Pre-Placement Physical Examination

HOMECA RECYCLING
1575 AVE, MUÑOZ RIVERA
PMB #120
PONCE, PR 00717

Patient Name: CARLOS J. PIZARRO-SANTOS

Position: LABOR

Procedures:

General Physical Examination	Spirometry test
X-Ray	Lead Blood
CBC	U/A

Physician's statement:

I have examined the patient named above. I have also reviewed the results of the test listed above. The employee has answered Medical Evaluation Questionnaire, Appendix C, OSHA 29 CFR 1910.134(e), and undergone a Physical Examination as per OSHA 29 CFR 1910.134(b)(10) and 29 CFR 1926.1101, Medical Section of Asbestos Ruling, and Toxic and Hazardous Substances Standard 1910.1025(j)(3)(i)(A) to 1910.1025(k)(2)(vii) related to Lead exposure. We found this person:

✓ Qualified to use a respirator and comply with Asbestos medical standard and Lead medical surveillance program. I find the person physically fit to perform general work.

____ I find the person has the following impairment(s) and have noted where the following accommodations are necessary to perform the job as defined. _____

_____

____ I find the person **cannot** perform the job as defined.

Physician's Comments: Tdap and Influenza vaccines recommended

Physician's signature

10/7/13
Date

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Pre-Placement Physical Examination

HOMECA RECYCLING
1575 AVE, MUÑOZ RIVERA
PMB #120
PONCE, PR 00717

Patient Name: JUAN H. LOPEZ-CANDELARIO

Position: SUPERVISOR

Procedures:

General Physical Examination	Spirometry test
X-Ray	Lead Blood
CBC	U/A

Physician's statement:

I have examined the patient named above. I have also reviewed the results of the test listed above. The employee has answered Medical Evaluation Questionnaire, Appendix C, OSHA 29 CFR 1910.134(e), and undergone a Physical Examination as per OSHA 29 CFR 1910.134(b)(10) and 29 CFR 1926.1101, Medical Section of Asbestos Ruling, and Toxic and Hazardous Substances Standard 1910.1025(j)(3)(i)(A) to 1910.1025(k)(2)(vii) related to Lead exposure. We found this person:

✓ Qualified to use a respirator and comply with Asbestos medical standard and Lead medical surveillance program. I find the person physically fit to perform general work.

____ I find the person has the following impairment(s) and have noted where the following accommodations are necessary to perform the job as defined. _____

_____

____ I find the person **cannot** perform the job as defined.

Physician's Comments: Must see personal MD for blood pressure control, hematuria evaluation DM + Renal disease follow-up and vaccines - Tdap and influenza!

Physician's signature

10/7/13
Date

Pre-Placement Physical Examination

HOMECA RECYCLING
1575 AVE, MUÑOZ RIVERA
PMB #120
PONCE, PR 00717

Patient Name: GERALDO COLLAZO-RAMOS

Position: SUPERVISOR

Procedures:

General Physical Examination	Spirometry test
X-Ray	Lead Blood
CBC	U/A

Physician's statement:

I have examined the patient named above. I have also reviewed the results of the test listed above. The employee has answered Medical Evaluation Questionnaire, Appendix C, OSHA 29 CFR 1910.134(e), and undergone a Physical Examination as per OSHA 29 CFR 1910.134(b)(10) and 29 CFR 1926.1101, Medical Section of Asbestos Ruling, and Toxic and Hazardous Substances Standard 1910.1025(j)(3)(i)(A) to 1910.1025(k)(2)(vii) related to Lead exposure. We found this person:

✓ Qualified to use a respirator and comply with Asbestos medical standard and Lead medical surveillance program. I find the person physically fit to perform general work.

____ I find the person has the following impairment(s) and have noted where the following accommodations are necessary to perform the job as defined. _____

_____

____ I find the person **cannot** perform the job as defined.

Physician's Comments: Tdap and Influenza vaccines recommended

S/M
Physician's signature

10/7/13
Date

Pre-Placement Physical Examination

HOMECA RECYCLING
1575 AVE, MUÑOZ RIVERA
PMB #120
PONCE, PR 00717

Patient Name: GEOVANIE GONZALEZ-PEREZ

Position: LABOR

Procedures:

General Physical Examination	Spirometry test
X-Ray	Lead Blood
CBC	U/A

Physician's statement:

I have examined the patient named above. I have also reviewed the results of the test listed above. The employee has answered Medical Evaluation Questionnaire, Appendix C, OSHA 29 CFR 1910.134(e), and undergone a Physical Examination as per OSHA 29 CFR 1910.134(b)(10) and 29 CFR 1926.1101, Medical Section of Asbestos Ruling, and Toxic and Hazardous Substances Standard 1910.1025(j)(3)(i)(A) to 1910.1025(k)(2)(vii) related to Lead exposure. We found this person:

✓ Qualified to use a respirator and comply with Asbestos medical standard and Lead medical surveillance program. I find the person physically fit to perform general work.

____ I find the person has the following impairment(s) and have noted where the following accommodations are necessary to perform the job as defined. _____

____ I find the person **cannot** perform the job as defined.

Physician's Comments: Td dp and influenza vaccines recommended

Physician's signature

10/7/13
Date

Caribbean Medical Testing Center & Reference Laboratory
PO Box 192071 | San Juan PR 00919-2071
Clemson 300 | University Gardens | Rio Piedras PR 00927
Tel. 787.754.6868 | Fax. 787.274.9280
www.cmtpr.com

MEDICAL RELEASE FORM

Patient Name: Josi E Santiago Delgado

Company Name: Homeca

Examination Date: 5 Sept 2013

The above named patient/employee has undergone a Physical examination and obligatory clinical history as per OSHA 29 CFR 1910.134(b) (10) Respiratory Protection, and was found.

☑ RECOMMENDED USING THE FOLLOWING RESPIRATOR

☑ Half Face ☑ Full Face ☐ SCBA ☐ SAR ☐ PAPR

☐ NOT RECOMMENDED USING RESPIRATOR

☐ COMMENTS Do not present contraindications respiratory for use of respirator

Note: Tobacco smoker have been advised that they incur a substantially greater risk, including increased risk of lung cancer and cardiopulmonary disease if they continue to smoke while working with asbestos.

Physician signature	License Number	Date
	7819	9/5/2013

***The final decision for employment is responsibility of the company who refers the patient and not of Caribbean Medical Testing Center or its employees.**

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Caribbean Medical Testing Center & Reference Laboratory
PO Box 192071 | San Juan PR 00919-2071
Clemson 300 | University Gardens | Rio Piedras PR 00927
Tel. 787.754.6868 | Fax. 787.274.9280
www.cmtpr.com

MEDICAL RELEASE FORM

Patient Name: Santos Ruiz Lebron

Company Name: Homecu

Examination Date: 9-5-13

The above named patient/employee has undergone a Physical examination and obligatory clinical history as per OSHA 29 CFR 1910.134(b) (10) Respiratory Protection, and was found.

☑ RECOMMENDED USING THE FOLLOWING RESPIRATOR

☑ Half Face ☑ Full Face ☐ SCBA ☐ SAR ☐ PAPR

☐ NOT RECOMMENDED USING RESPIRATOR

☐ COMMENTS

No hay presente contraindicaciones para uso de respirador

Note: Tobacco smoker have been advised that they incur a substantially greater risk, including increased risk of lung cancer and cardiopulmonary disease if they continue to smoke while working with asbestos.

Physician signature	License Number	Date
	7819	9/5/2013

***The final decision for employment is responsibility of the company who refers the patient and not of Caribbean Medical Testing Center or its employees.**

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CONFIDENTIAL SUBJECT TO PROTECTIVE ORDER
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Caribbean Medical Testing Center & Reference Laboratory
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Tel. 787.754.6868 | Fax. 787.274.9280
www.cmtpr.com

MEDICAL RELEASE FORM

Patient Name: Emmanuel Ramos Maldonado

Company Name: Homeca

Examination Date: 5\Sept\2013

The above named patient/employee has undergone a Physical examination and obligatory clinical history as per OSHA 29 CFR 1910.134(b) (10) Respiratory Protection, and was found.

☐ RECOMMENDED USING THE FOLLOWING RESPIRATOR

☐ Half Face ☐ Full Face ☐ SCBA ☐ SAR ☐ PAPR

☐ NOT RECOMMENDED USING RESPIRATOR

☐ COMMENTS

Not present contraindication for use Respirator

Note: Tobacco smoker have been advised that they incur a substantially greater risk, including increased risk of lung cancer and cardiopulmonary disease if they continue to smoke while working with asbestos.

Physician signature | License Number 7819 | Date 9/5/2013

***The final decision for employment is responsibility of the company who refers the patient and not of Caribbean Medical Testing Center or its employees.**

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www.cmipr.com

MEDICAL RELEASE FORM

Patient Name: Felix J. Valentin Cova

Company Name: Homeca

Examination Date: 5/Sep/13

The above named patient/employee has undergone a Physical examination and obligatory clinical history as per OSHA 29 CFR 1910.134(b) (10) Respiratory Protection, and was found.

☑ RECOMMENDED USING THE FOLLOWING RESPIRATOR

☑ Half Face ☑ Full Face ☐ SCBA ☐ SAR ☐ PAPR

☐ NOT RECOMMENDED USING RESPIRATOR

☑ COMMENTS

He not present contraindications respiratory for use respirador.

Note: Tobacco smoker have been advised that they incur a substantially greater risk, including increased risk of lung cancer and cardiopulmonary disease if they continue to smoke while working with asbestos.

Physician signature	License Number	Date
	7879	9/5/2013

***The final decision for employment is responsibility of the company who refers the patient and not of Caribbean Medical Testing Center or its employees.**

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CONFIDENTIAL & PRIVILEGE
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Tel. 787.754.6868 | Fax. 787.274.9280
www.cmtpr.com

MEDICAL RELEASE FORM

Patient Name: Javier Pabón morales

Company Name: Homeca

Examination Date: _____

The above named patient/employee has undergone a Physical examination and obligatory clinical history as per OSHA 29 CFR 1910.134(b) (10) Respiratory Protection, and was found.

☑ RECOMMENDED USING THE FOLLOWING RESPIRATOR

☑ Half Face ☑ Full Face ☐ SCBA ☐ SAR ☐ PAPR

☐ NOT RECOMMENDED USING RESPIRATOR

☑ COMMENTS

Not present ligth beard enough for use respirator

Note: Tobacco smoker have been advised that they incur a substantially greater risk, including increased risk of lung cancer and cardiopulmonary disease if they continue to smoke while working with asbestos.

Physician signature	License Number	Date
	7079	9/5/2013

***The final decision for employment is responsibility of the company who refers the patient and not of Caribbean Medical Testing Center or its employees.**

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www.cmtpr.com

MEDICAL RELEASE FORM

Patient Name: Hector Montañez Cintrón

Company Name: Homeca

Examination Date: 5-9-13

The above named patient/employee has undergone a Physical examination and obligatory clinical history as per OSHA 29 CFR 1910.134(b) (10) Respiratory Protection, and was found.

☑ RECOMMENDED USING THE FOLLOWING RESPIRATOR

☐ Half Face ☑ Full Face ☐ SCBA ☐ SAR ☐ PAPR

☐ NOT RECOMMENDED USING RESPIRATOR

☑ COMMENTS

He must present contraindications
Respiratory for use respirator

Note: Tobacco smoker have been advised that they incur a substantially greater risk, including increased risk of lung cancer and cardiopulmonary disease if they continue to smoke while working with asbestos.

Physician signature | License Number | Date 5/9/2013

***The final decision for employment is responsibility of the company who refers the patient and not of Caribbean Medical Testing Center or its employees.**

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RESPIRATOR FIT TEST RECORD

Company: Homeco Recycling
Address:
City: Pasco
State: WA Zip: Tel:

Date: 27-Sept-2013

Name of Fit Tester: Eduardo Camacho

Fit testing conducted in compliance with OSHA Standard 1910.134(F). ☒
If other local, state or federal regulations apply (such as MSHA), you may list them here:

Signature:

Type of OSHA accepted fit test protocol used: (Qualitative): ___Saccharin ___Bitrex™ ___Isoamyl Acetate X Irritant Smoke

(Quantitative): Portacount Model #_____ Occupational Health Dynamic Model #:_____

Name (please print)	Signature	Respirator Fit Tested (Make, Model, Style, Size)	Fit Test Pass	Fit Test Fail	Could not be fit tested due to:
Juan Lopez Candelario		North Half Face 5500-30 Large	☒	☐	
Eusebio Francesdini		North Half Face 5500-30 Med	☒	☐	
Jorge Velazquez Irizarry		North Half Face 5500-30 Large	☒	☐	
Edrick Velazquez Caquias		North Half Face 7700-30 Med	☒	☐	
Ferdinand Alvarado Rodriguez		North Half Face 7700-30 Large	☒	☐	
Alexis Rivera Robles		North Half Face 5500-30 Med	☒	☐	
			☐	☐	
			☐	☐	
			☐	☐	
			☐	☐	

Comments:

CONFIDENTIAL & PRIVILEDGE

RESPIRATOR FIT TEST RECORD

Company: Homeca Recycling
Address:
City: Ponce
State: PR Zip: Tel:

Date: 1-Oct-13

Name of Fit Tester: Eduardo Camacho

Fit testing conduoted in compliance with OSHA Standard 1910.134(F). [L]
If other local, state or federal regulations apply (such as MSHA), you may list them here:

Signature:

Type of OSHA accepted fit test protocol used: (Qualitative): ___Saccharin ___Bitrex™ ___Isoamyl Acetate [L]Irritant Smoke

(Quantitative): Portacount Model #_____ Occupational Health Dynamic Model #:_____

Name (please print)	Signature	Respirator Fit Tested (Make, Model, Style, Size)	Fit Test Pass	Fit Test Fail	Could not be fit tested due to:
Angel Silva Garcia		North Half Face 5500-30 M	[L]	[ ]	
Jorge Torres Matos		North Half Face 7700-30 S	[L]	[ ]	
Harris Morales Sáez		North Half Face 5500-30 M	[L]	[ ]	
Osvaldo Feliciano Ruiz		North Half Face 7700-30 L	[L]	[ ]	
Jose Miguel Rodgz		North Half Face 7700-30 M	[L]	[ ]	
Carlos Pizarro Santos		North Half Face 5500-30 L	[L]	[ ]	
Geovanie Gonzalez		North Half Face 7700-30 L	[L]	[ ]	
Reynaldo Lopez Rodgz		North Half Face 7700-30 L	[L]	[ ]	
Daniel Vargas		North Half Face 5500-30 M	[L]	[ ]	
Ismael Bones		North Half Face 7700-30M	[L]	[ ]	
Geraldo Collazo		North Half Face 5500-30L	Passed		

Comments:

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RESPIRATOR FIT TEST RECORD

Company: Norma
Address:
City: Ponce
State: PR Zip: Tel:

Date: 4-oct-13

Name of Fit Tester: Eduardo Camacho

Fit testing conduoted in compliance with OSHA Standard 1910.134(F). ☑
If other local, state or federal regulations apply (suoh as MSHA), you may list them here:

Signature:

Type of OSHA accepted fit test protocol used: (Qualitative): ___Saccharin ___Bitrex™ ___Isoamyl Acetate ☑ Irritant Smoke

(Quantitative): Portacount Model #_____ Occupational Health Dynamic Model #:_____

Name (please print)	Signature	Respirator Fit Tested (Make, Model, Style, Size)	Fit Test Pass	Fit Test Fail	Could not be fit tested due to:
Norma Cok Lazo	Norma Cok	North Half Face 5500 - 30 M	☑	☐	
Eliseo Caraballo	Eliseo Caraballo	North Half Face 5500 - 30 M	☑	☐	
			☐	☐	
			☐	☐	
			☐	☐	
			☐	☐	
			☐	☐	
			☐	☐	
			☐	☐	
			☐	☐	

Comments:

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ALTOL
Environmental Services, Inc.

P.O Box 359 Mercedita, PR 00715-0359

RESPIRATORY QUALITATIVE FIT TEST

This is a certificate for qualitative fit test in compliance with OSHA Standard 29CFR 1910.134

Employee's Name:	Felix Valentin Cora
Company's Name:	Homeca Recycling
Type of Respirator:	Half Face
Respirator's model:	7700, North, 30m, Medium
Smoke:	Irritant Smoke
Employer Id. No.:	5885
Fit Test Control No.	AE-FT-0906-2013-0094
Tester's Signature:	Date: Sept-06-2013

Comments: North respirator used in good condition, verification of negative and positive check its ok.

Completion Date: Sept 06-2013 Expiration Date: Sept 05-2014

ALTOL
Environmental Services, Inc.

P.O Box 359 Mercedita, PR 00715-0359

RESPIRATORY QUALITATIVE FIT TEST

This is a certificate for qualitative fit test in compliance with OSHA Standard 29CFR 1910.134

Employee's Name:	Javier Pabón Morales
Company's Name:	Homeca Recycling
Type of Respirator:	Half Face
Respirator's model:	7700, North, 30L, Large
Smoke:	Irritant Smoke
Employer Id. No.:	1824
Fit Test Control No.	AE-FT-0906-2013-0097
Tester's Signature:	Date: Sept-06-2013

Comments: North respirator used in good condition, verification of negative and positive check its ok.

Completion Date: Sept 06-2013 Expiration Date: Sept 05-2014

ALTOL
Environmental Services, Inc.

P.O Box 359 Mercedita, PR 00715-0359

RESPIRATORY QUALITATIVE FIT TEST

This is a certificate for qualitative fit test in compliance with OSHA Standard 29CFR 1910.134

Employee's Name:	José Santiago
Company's Name:	Homeca Recycling
Type of Respirator:	Half Face
Respirator's model:	7700, North, 30L, Large
Smoke:	Irritant Smoke
Employer Id. No.:	3222
Fit Test Control No.	AE-FT-0906-2013-0095
Tester's Signature:	Date: Sept-06-2013

Comments: North respirator used in good condition, verification of negative and positive check its ok.

Completion Date: Sept 06-2013 Expiration Date: Sept 05-2014

ALTOL
Environmental Services, Inc.

P.O Box 359 Mercedita, PR 00715-0359

RESPIRATORY QUALITATIVE FIT TEST

This is a certificate for qualitative fit test in compliance with OSHA Standard 29CFR 1910.134

Employee's Name:	Santos Ruiz Lebrón
Company's Name:	Homeca Recycling
Type of Respirator:	Half Face
Respirator's model:	7700, North, 30L, Large
Smoke:	Irritant Smoke
Employer Id. No.:	1026
Fit Test Control No.	AE-FT-0906-2013-0096
Tester's Signature:	Date: Sept-06-2013

Comments: North respirator used in good condition, verification of negative and positive check its ok.

Completion Date: Sept 06-2013 Expiration Date: Sept 05-2014

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RESPIRATORY QUALITATIVE FIT TEST

This is a certificate for qualitative fit test in compliance with OSHA Standard 29CFR 1910.134

Employee's Name:	Emmanuel Ramos Maldonado
Company's Name:	Homeca Recycling
Type of Respirator:	Half Face
Respirator's model:	7700, North, 30M, Medium
Smoke:	Irritant Smoke
Employer Id. No.:	4598
Fit Test Control No.	AE-FT-0906-2013-0100
Tester's Signature:	Date: Sept-06-2013

Comments: North respirator used in good condition, verification of negative and positive check its ok.

Completion Date: Sept 06-2013 Expiration Date: Sept 05-2014

ALTOL
Environmental Services, Inc.

P.O Box 359 Mercedita, PR 00715-0359

RESPIRATORY QUALITATIVE FIT TEST

This is a certificate for qualitative fit test in compliance with OSHA Standard 29CFR 1910.134

Employee's Name:	José A. Verges Rivera
Company's Name:	Homeca Recycling
Type of Respirator:	Half Face
Respirator's model:	7700, North, 30L, Large
Smoke:	Irritant Smoke
Employer Id. No.:	9087
Fit Test Control No.	AE-FT-0906-2013-0099
Tester's Signature:	Date: Sept-06-2013

Comments: North respirator used in good condition, verification of negative and positive check its ok.

Completion Date: Sept 06-2013 Expiration Date: Sept 05-2014

ALTOL
Environmental Services, Inc.

P.O Box 359 Mercedita, PR 00715-0359

RESPIRATORY QUALITATIVE FIT TEST

This is a certificate for qualitative fit test in compliance with OSHA Standard 29CFR 1910.134

Employee's Name:	Rafael Velazquez Ortiz
Company's Name:	Homeca Recycling
Type of Respirator:	Half Face
Respirator's model:	7700, North, 30L, Large
Smoke:	Irritant Smoke
Employer Id. No.:	0118
Fit Test Control No.	AE-FT-0906-2013-0098
Tester's Signature:	Date: Sept-06-2013

Comments: North respirator used in good condition, verification of negative and positive check its ok.

Completion Date: Sept 06-2013 Expiration Date: Sept 05-2014

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P.O Box 359 Mercedita, PR 00715-0359

RESPIRATORY QUALITATIVE FIT TEST

This is a certificate for qualitative fit test in compliance with OSHA Standard 29CFR 1910.134

Employee's Name:	Hector Montañez Cintrón
Company's Name:	Homeca Recycling
Type of Respirator:	Half Face
Respirator's model:	7700, North, 30M, Medium
Smoke:	Irritant Smoke
Employer Id. No.:	3230
Fit Test Control No.	AE-FT-0906-2013-0101
Tester's Signature:	Date: Sept-06-2013

Comments: North respirator used in good condition, verification of negative and positive check its ok.

Completion Date: Sept 06-2013 Expiration Date: Sept 05-2014

001745

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RESPIRATORY QUALITATIVE FIT TEST

This is a certificate for qualitative fit test in compliance with OSHA Standard 29CFR 1910.134, 29CFR 1926.1101, 29CFR 1926.62

Employee's Name:	Juan L. Rodriguez
Company's Name:	Homeca Recycling
Type of Respirator:	Half Face
Respirator's model:	5500-30 L, North.
Smoke:	Irritant Smoke
Employer Identification Number:	XXX-XX-2751
Fit Test Control Number:	AE-FT-1003-2013-011
Employee's Signature:	Date: Oct-3-2013
Tester's Signature:	Date: Oct-3-2013

Comments: North respirator used in good condition, verification of negative and positive check its ok.

Completion Date: Oct-3-2013 Expiration Date: Oct-2-14

Parque Industrial Sabanetas ▪ Edificio M-1380 ▪ Ponce, PR 00715
Tel. (787) 835-4242 ▪ Fax (787) 835-2004

ALTOL
Environmental Services, Inc.

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RESPIRATORY QUALITATIVE FIT TEST

This is a certificate for qualitative fit test in compliance with OSHA Standard 29CFR 1910.134, 29CFR 1926.1101, 29CFR 1926.62

Employee's Name:	Melvin Feliciano
Company's Name:	Homeca Recycling
Type of Respirator:	Half Face
Respirator's model:	5500-30 L, North.
Smoke:	Irritant Smoke
Employer Identification Number:	XXX-XX-5109
Fit Test Control Number:	AE-FT-1003-2013-010
Employee's Signature:	Date: Oct-3-2013
Tester's Signature:	Date: Oct-3-2013

Comments: North respirator used in good condition, verification of negative and positive check its ok.

Completion Date: Oct-3-2013 Expiration Date: Oct-2-14

Parque Industrial Sabanetas ▪ Edificio M-1380 ▪ Ponce, PR 00715
Tel. (787) 835-4242 ▪ Fax (787) 835-2004

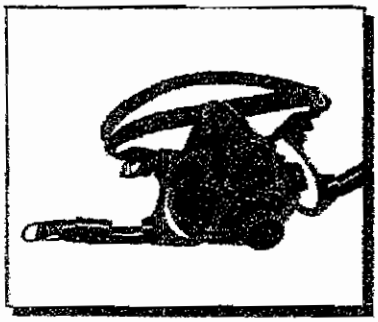
CONFIDENTIAL & PRIVILEGE

NORTH

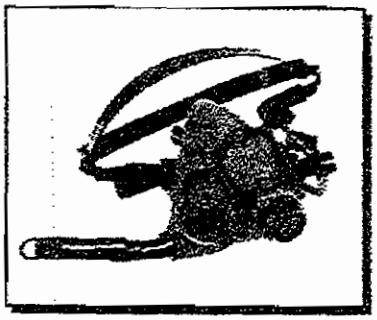
Technical Data

RP #02 TD

NORTH 7700 & 5500 SERIES HALF MASK



North 7700 Series Half Mask
"The industry standard"



North 5500 Series Half Mask
"The economical alternative"

Product Description

The North 7700 and 5500 Series half masks consist of a facepiece, head harness, cartridge connectors and exhalation valve. Half masks are available in three overlapping sizes of small, medium and large. When used with the appropriate cartridges, filters and/or adapters, and within the appropriate Maximum Use Concentrations (MUC), North 7700 and 5500 half masks provide protection from gases, vapors and particulates.

These masks are not approved for protection for use in atmospheres that are Immediately Dangerous to Life and Health (IDLH), including atmospheres with less than 19.5% oxygen.

Certification

North 7700 and 5500 Series half masks are approved by the National Institute of Occupational Safety and Health (NIOSH) as:

1. air-purifying respirators when used with North cartridges and/or filters;
2. air-purifying respirators with backpack adapter when used with North cartridges and/or filters;
3. powered air-purifying respirators when used with North Compact Air PAPR and accompanying cartridges and/or HEPA filter; and
4. Type C continuous flow airline respirators when used with North CF2007 breathing tube, hoses and couplers.

Contact North Safety Products for information on all North cartridges, filters, adapters and accessories at 800-430-4110 or e-mail us at www.northsafety.com.

North Safety Products
2000 Plainfield Pike
Cranston, RI 02921
USA

Telephone 401-943-4400
Facsimile 401-946-7560

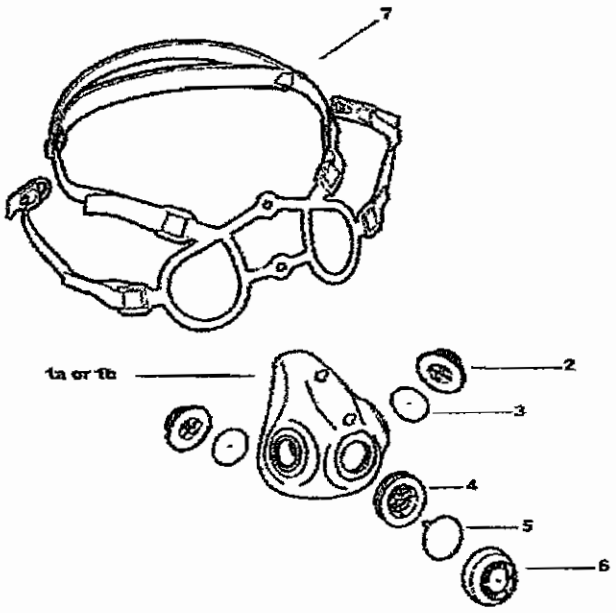
www.northsafety.com

Continued on reverse...

Assigned Protection Factors

Air-Purifying Half Mask	10
Powered Air-Purifying Half Mask	50
Continuous Flow Supplied Air Half Mask	50

Replacement Parts (5500 and 7700 Series Half Mask)



Product Number	*Description*
Complete Assembly	
770030 L, M,S	Silicone Half Mask
550030 L, M, S	Elastomeric Half Mask
Replacement Parts	
1a 770011 L, M, S	Basic Facepiece for 7700
1b 550011 L, M, S	Basic Facepiece for 5500
2 770016	Cartridge Connector
3 770017	Inhalation Valve
4 770019	Exhalation Valve Seat
5 770018	Exhalation Valve
6 770020	Exhalation Valve Guard
7 770092	Cradle Suspension System

Material Composition

The North 7700 and 5500 half masks are latex free

Facepiece	
7700 facepiece	100% silicone, medical grade
5500 facepiece	Thermoplastic elastomer that contains silicone
Cartridge connectors	Polypropylene
Inhalation valve	Rubber
Exhalation valve	Rubber
Exhalation valve seat	Polyphenlene oxide
Exhalation valve guard	Polyisoprene
Cradle Suspension	
Cradle straps	Polyethylene
Upper head straps	Nylon, woven elastic
Lower head straps	Nylon, woven elastic with reflective stripe
Yoke	Polyethylene
Hook & eye	Polypropylene
Slide	Polyethylene

Weights & Dimensions

Component Weights

Weight does not include cartridges or filters

7700 Half Mask	4.48 oz. (130 grams)
5500 Half Mask	3.84 oz. (110 grams)

Shipping Weights & Dimensions

12 masks per case

7700 Half Mask	Weight: 8 lbs.	Dimensions: 21.5" x 14.5" x 8.0"
5500 Half Mask	Weight: 6.5 lbs.	Dimensions: 16.0" x 12.5" x 12.8"

Country of Origin

7700 & 5500 Half Mask: Mexico

Ordering Information

Product	Description	Pkg/Case
7700 Series		
770030S	Dual cartridge silicone half mask, size small	12 EA
770030M	Dual cartridge silicone half mask, size medium	12 EA
770030L	Dual cartridge silicone half mask, size large	12 EA
5500 Series		
550030S	Dual cartridge silicone half mask, size small	12 EA
550030M	Dual cartridge silicone half mask, size medium	12 EA
550030L	Dual cartridge silicone half mask, size large	12 EA
Adapters and Accessories		
BP1002	Backpack adapter	1 EA
CF2007	Continuous flow adapter	1 EA
7003	Respirator refresher wipes pads, with alcohol (100 per box)	10 BX
7003A	Respirator refresher wipes pads, alcohol free (100 per box)	10 BX
80992	Cleaner/disinfectant for respirators, 6 per package	12 PK
77BAG	Carry bag for half mask. Cotton with belt loops	12 EA
770093A	Storage bags, zip lock, 50 per package	1 PK
770021	Fit Test Adapter for quantitative fit testing	1 EA
80789	Training video: Use and maintenance. English	1 EA
80789SP	Training video: Use and maintenance. Spanish	1 EA

Warranties: North products are covered by and subject to the terms and conditions of the North Safety Products Limited Warranty that appears in our annual price list. The North Safety Products Limited Warranty is the only written warranty of any force and effect, and all other written warranties are disclaimed in their entirety. In no event shall North Safety Products or any of its authorized dealers be liable for any damages in excess of the purchase price of the relevant product. This limitation applies to damages of any kind, including but not limited to direct or indirect damages or other special, incidental, exemplary or consequential damages, whether arising out of the use or inability to use the product, even if we or any of our authorized dealers has been advised of the possibility of the damages or any claim by any other party. Servicing of any product with parts not approved by us will void the warranty and may result in loss of any certification or approval applicable to the product.

Anejo 10

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HOMECA INC
RECYCLING
Environmental, Coating and Demolition Services

2013

Programa Comunicacion Riesgos



Revisado: Noviembre 2013

Por: Tamara Echevarria

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Programa de Comunicación de Riesgo

Homeca Recycling Center Co., Inc

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CONFIDENTIAL & PRIVILEDGE
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Programa de Comunicación de Riesgo

Homeca Recycling Center Co., Inc

Introducción

La Administración para la Salud y Seguridad Ocupacional (OSHA) por sus siglas en ingles), a través de la Reglamentación Federal, 29 CFR Parte 1910.1200- Norma de Comunicación de Riesgos o "Derecho a Saber y Entender", tiene el propósito de reducir la incidencia de lesiones y enfermedades ocupacionales asociadas con la exposición a sustancias químicas peligrosas. La norma requiere el desarrollo e implantación de un Programa Escrito de Comunicación e Riesgo para proteger a los empelados de los riesgos físicos y a la salud, asociados a estas sustancias químicas peligrosas presentes en el lugar de trabajo y que la información que se obtiene se le comunique a todos los empelados cubiertos por la norma.

Propósito

Homeca Recycling, de acuerdo con la Reglamentación de OSHA, desarrollo un Programa de Comunicación de Riesgos para asegurar un ambiente de trabajo seguro y saludable para todos los empleados que se exponen a sustancias químicas peligrosas. El programa se dirige a informar a todos los empleados lo siguiente:

a) Contenido de la reglamentación
b) Peligros de las sustancias químicas en las áreas de trabajo
c) Medidas de control para evitar accidentes
d) Medidas de protección

Alcance y Aplicabilidad

El Programa de Comunicación de Riesgo cubre a todos los empleados expuestos o que trabajen en áreas donde se utilizan o almacenan sustancias químicas peligrosas, según lo establece la Reglamentación Federal ene l 29 CFR Parte 1910.1200.

Inventario de sustancias químicas

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El inventario de sustancias químicas lo realizará y actualizará el supervisor o encargado de cada área de trabajo donde estas sustancias se utilizaran o almacenan, según sea necesario, especialmente cuando se añadan nuevas sustancias (Anejo 1 Forma A). Se mantendrá una copia del Inventario de Sustancias Químicas Peligrosas disponible y accesible al empleado en cada área de trabajo. La Hoja de Inventario debe incluir como mínimo el nombre de la sustancia, y del fabricante o distribuidor de éste. La oficina de Salud y Seguridad o funcionario encargado mantendrá una copia del inventario.

Hojas de Datos de Seguridad (SDS's, por sus siglas en Ingles de "Safety Data Sheet")

La hoja de Datos de Seguridad (SDS's) estará disponible u accesible al empleado en cada área de trabajo para cada una de las sustancias químicas peligrosas que aparecen en el inventario (Anejo 2 para copia de SDS). El supervisor o encargado de cada área de trabajo será responsable de actualizar la carpeta de los SDS's, según sea necesario. Además, contactara al fabricante o suplidor cuando el SDS's de la sustancia no esté disponible o no se haya recibido.

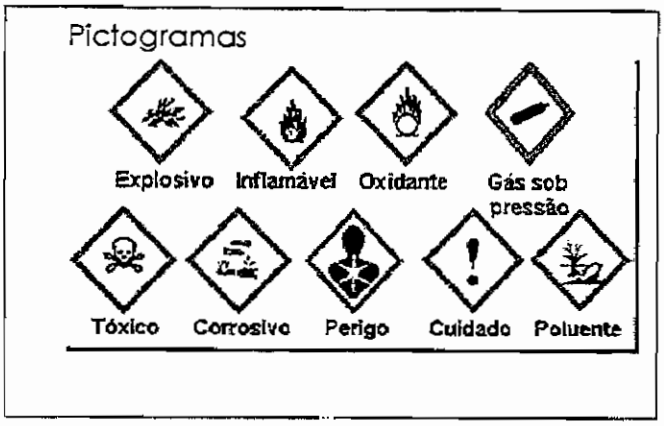
La Oficina de Salud y Seguridad o el funcionario encargado mantendrá una copia de cada uno de los SDS's de las sustancias que se incluyen en el inventario. Los SDS's estarán disponibles y accesibles a los empleados durante cada turno de trabajo. Si no lo están, el empleado informara al supervisor o encargado de cada área. Los empleados será responsables de familiarizarse con la información que contiene el SDS's antes de comenzar a trabajar con cualquier sustancia química peligrosa.

Rotulación y Otras Formas de Aviso

El supervisor o encargado de cada área de trabajo se asegurara y será responsable de que todos los envases se identifiquen y rotulen adecuadamente mediante la rotulación requerida por el HCS. También verificara la información que contiene la etiqueta (nombre del material o producto) sea el mismo que aparece en el SDS's. La etiqueta estará visiblemente colocada en el envase y deberá contener como mínimo la siguiente información:

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a) Identificación del Producto y Proveedor
b) Pictogramas
c) Una palabra de advertencia
d) Indicaciones de Peligro
e) Consejos de prudencia





Además, la etiqueta deberá estar legible, escrita en de manera entendible por los empleados y no debe estar mutilada, de lo contrario se debe reemplazar. Las sustancias peligrosas que se identifiquen como "carcinógenas" y aquellas de las cuales se sospecha puedan ser "carcinógenas", deberán tener en su etiqueta el aviso de seguridad correspondiente. Los avisos de seguridad también deberán incluir el órgano crítico o afectado por esta sustancia, por ejemplo: Peligro al Pulmón.

No se requiere rotular los envases que se han utilizado para transferir sustancias químicas peligrosas si su uso es inmediato. Tampoco se requerirá que las tuberías o sistemas de tuberías estén rotuladas, pero el contenido de las mismas se deberá discutir en las secciones de adiestramiento.

Tareas no rutinarias

Usualmente se le requerirá a los empleados realizar tareas no rutinarias tales como: limpieza de tanques, entrar a espacios confinados y limpieza de calderas, entre otros. Estas tareas, por lo general, envuelven algún tipo de

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riesgo. El supervisor o encargado de la facilidad o proyecto será responsable de informarle al empleado antes de comenzar los trabajos, los riesgos y características de peligrosidad de la sustancia química que utilizaría, medidas de protección que pueda tomar para reducir o evitar una exposición u procedimientos de emergencias.

Información y Adiesiramiento

La norma de comunicación de riesgo establece que se desarrolle un Programa de Orientación y Adiestramiento a Empleados para informarles los riesgos asociados a las sustancias químicas presentes en el área de trabajo. Sera responsabilidad de la Oficina de Salud y Seguridad o funcionario encargado, adiestrar o coordinar los adiestramientos para sus empleados cuando:

a) El empleado comience a trabajar
b) Se introduce un proceso, equipo nuevo o sustancia
c) Se revisa, modifica o actualizan procedimientos
d) Existe nueva información sobre las sustancias químicas
e) Cambio de regulación

El Programa de Orientación y Adiestramiento a Empleados debe incluir como mínimo la siguiente información:

a) Revisar la Norma de Comunicación de Riesgos, 29 CFR Parte 1910.1200, con los empleados.
b) Revisar el Programa de Comunicación de Riesgos con los empleados.
c) Localización, disponibilidad y accesibilidad de Programa de Comunicación de Riesgos.
d) Disponibilidad y accesibilidad de los SDS's y como leer e interpretar la información contenida en estos, incluyendo las 16 partes del nuevo formato y como se relacionan con la rotulación.
e) Métodos para detectar la presencia o escape de sustancias químicas peligrosas.
f) Riesgos o peligros físicos de las sustancias químicas peligrosas.
g) Propiedades físicas y químicas de las sustancias químicas peligrosas.
h) Efectos a la salud, síntomas y señales de exposición.
i) Sistema de rotulación que se utiliza. Incluyendo explicar el formato GHS:
    a. Identificación del producto y productor

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b. Palabra de Advertencia (Peligro-Cuidado)
c. Pictogramas con sus clasificaciones
d. Indicación de Riesgo y Precaución

j) Medidas que el empleado puede tomar para protegerse de los peligros asociados a estas sustancias químicas.
k) Explicación de cómo funcionan los elementos juntos para rotulación.
l) Procedimientos a seguir en caso de un derrame o accidente.

La Oficina de Salud y Seguridad o funcionario encargado será responsable de identificar los empleados que se afecten por la norma, determinar las necesidades de adiestramientos y mantener un Registro de Asistencia a los adiestramientos que se ofrecen a los empleados. Sera responsable de revisar el contenido del Programa de Adiestramiento y actualizarlo según sea necesario.

Contratistas

La Oficina de Salud y Seguridad Ocupacional o funcionario encargado junto al supervisor de área serán responsables de informar a toda persona o compañía que contrate HOMECA lo siguiente:

a) Localización y disponibilidad de Programa de Comunicación de Riesgos.
b) Sustancias químicas peligrosas que se utilizan en el área donde se realizarán los trabajos.
c) Sistema de rotulación que se utiliza.
d) Localización, disponibilidad y accesibilidad de las SDS's.
e) Medidas de precaución para evitar la exposición a estas sustancias.

Si el contratista o encargado de realizar los trabajos trae sustancias químicas al área deberá proveerle al supervisor o encargado del área y a la Oficina de Salud y Seguridad o funcionario encargado toda la información que se relacione con esta.

Reglas Básicas de Seguridad:

1. Conozca la localización de:

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   a. Programa de Comunicación de Riesgos
   b. Inventario de Sustancias Químicas Peligrosas
   c. Hojas de Datos de Seguridad de Materiales (SDS's)
   d. Pictogramas y Sus Clasificaciones
   e. Equipos de Protección Personal
2. Conozca la localización y uso del equipo de seguridad tales como:
   a. Extintor
   b. Material para el control de derrames
   c. Ducha de Seguridad y ducha para ojos.
3. Conozca que hacer en caso de una emergencia.
4. Conozca los riesgos de las sustancias químicas peligrosas que utiliza.
5. Limite de acceso a las áreas donde se utilizan sustancias químicas peligrosas solamente a personal autorizado.
6. NO utilice cosméticos, no fume, no ingiera alimentos en área donde se utilizan sustancias químicas peligrosas.
7. Utilice siempre el equipo de protección personal requerido para trabajar en las áreas donde se utilizan sustancias químicas peligrosas.
8. Lávese las manos antes y después de utilizar cualquier sustancia química peligrosa.
9. Limpie y descontamine diariamente todas las superficies de trabajo donde se utilizan sustancias químicas peligrosas.

Revisiones y Actualizaciones

Una copia de este Plan y todas las revisiones subsiguientes permanecerán en las facilidades y oficinas administrativas. Copias adicionales de este plan estarán disponibles a través del Oficial de Salud y Seguridad o funcionario encargado. El programa será evaluado anualmente.

Última Revisión: Noviembre 2013 Por: Tamara Echevarría

Se revisaron todas las secciones para cumplimiento con el nuevo GHS incluyendo, identificación de riesgos, pictogramas, rotulación y requisitos de adiestramientos.

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Programa de Comunicación de Riesgo

Homeca Recycling Center Co., Inc

Anejo 1

Lista de Inventario Químico

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Programa de Comunicación de Riesgo

Homeca Recycling Center Co., Inc

Anejo 2

Copia de SDS

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HAZCOM/GHS

POR:TAMARA ECHEVARRIA

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HAZCOM (Comunicacion Riesgo)

- La Administración para la Salud y Seguridad Ocupacional (OSHA) por sus siglas en ingles), a través de la Reglamentación Federal, 29 CFR Parte 1910.1200-Norma de Comunicación de Riesgos o "Derecho a Saber" ahora "Derecho a Entender", tiene el propósito de reducir la incidencia de lesiones y enfermedades ocupacionales asociadas con la exposición a sustancias químicas peligrosas.

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Ustedes deben conocer:

La norma requiere el desarrollo e implantación de un Programa Escrito de Comunicación e Riesgo para proteger a los empelados de los riesgos físicos y a la salud, asociados a estas sustancias químicas peligrosas presentes en el lugar de trabajo y que la información que se obtiene se le comunique a todos los empelados cubiertos por la norma.

Ustedes deben conocer:

- donde conseguir la información, (Almacén, Oficina, Supervisor)
- productos a los cuales están expuestos,
- los riesgos asociados a èstos y como identificarlos.
- Tiempo de adiestramiento (Reclutamiento, Anual o al incorporar sustancias químicas)

- Nuevo formato debe ser adiestrado en o antes del 12/1/13.

Donde conseguir información de riesgo:

El riesgo es determinado por el manufacturero y lo informa por medio de:

- Etiquetas
- Simbolos
- SDS (antes MSDS) - Aplicabilidad

Incidente Riesgo

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PICTOGRAMAS

A partir del 1.° de junio de 2015, la norma de comunicación de peligros (HCS, por sus siglas en inglés) exigirá pictogramas en las etiquetas para advertir a los usuarios de los peligros químicos a los que puedan estar expuestos. Cada pictograma representa un peligro definido y consiste en un símbolo sobre un fondo blanco enmarcado con un borde rojo. La clasificación del peligro químico determina el pictograma que muestra la etiqueta.

Health Hazard	Flame	Exclamation Mark
• Carcinogen • Mutagenicity • Reproductive Toxicity • Respiratory Sensitizer • Target Organ Toxicity • Aspiration Toxicity	• Flammables • Pyrophorics • Self-Heating • Emits Flammable Gas • Self-Reactives • Organic Peroxides	• Irritant (skin and eye) • Skin Sensitizer • Acute Toxicity (harmful) • Narcotic Effects • Respiratory Tract Irritant • Hazardous to Ozone Layer (Non Mandatory)
Gas Cylinder	**Corrosion**	**Exploding Bomb**
• Gases under Pressure	• Skin Corrosion/ burns • Eye Damage • Corrosive to Metals	• Explosives • Self-Reactives • Organic Peroxides
Flame over Circle	**Environment (Non Mandatory)**	**Skull and Crossbones**
• Oxidizers	• Aquatic Toxicity	• Acute Toxicity (fatal or toxic)

Rotulación

- Importancia de la identificación de productos
- Norma de 8 horas y Debida rotulación (Uso inmediato)
- Rotulación rota no está permitida
- Si no sabe lo que es: NO LO USE!
- Tipos de Etiqueta

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SAMPLE LABEL

PRODUCT IDENTIFIER

CODE _____

Product Name _____

SUPPLIER IDENTIFICATION

Company Name _____

Street Address _____

City, State _____

Postal Code, Country _____

Emergency Phone Number _____

PRECAUTIONARY STATEMENTS

Keep container tightly closed. Store in cool, well ventilated place that is locked. Keep away from heat/sparks/open flame. No smoking.

Only use non-sparking tools.

Use explosion-proof electrical equipment.

Take precautionary measure against static discharge.

Ground and bond container and receiving equipment.

Do not breathe vapors.

Wear Protective gloves.

Do not eat, drink or smoke when using this product.

Wash hands thoroughly after handling.

Dispose of in accordance with local, regional, nation, international regulations as specified.

In Case of Fire: use dry chemical (BC) or Carbon dioxide (CO_2) fire extinguisher to extinguish.

First Aid

If exposed call Poison Center.

If on skin (on hair): Take off immediately and contaminated clothing. Rinse skin with water.

HAZARD PICTOGRAMS

SIGNAL WORD

Danger

HAZARD STATEMENT

Highly flammable liquid and vapor. May cause liver and kidney damage.

SUPPLEMENTAL INFORMATION

Directions for use

_____

_____

_____

Fill weight: _____

Lot number: _____

Gross weight: _____

Fill Date: _____

Expiration Date: _____

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SDS (Antes MSDS)

- Pedir SDS con cada producto nuevo.
- El nuevo formato establece 16 secciones
  - Seccion 1: Identificacion
  - Seccion 2: Identificacion de Riesgo
  - Seccion 3: Composicion o Ingredientes
  - Seccion 4: Primeros Auxilios
  - Seccion 5: Medidas Combatir Fuego
  - Seccion 6: Medidas contra derrames
  - Seccion 7: Manejo y Almacenamiento

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SDS (Antes MSDS)

- Seccion 8: Controles de Exposicion / PPE
- Seccion 9: Propiedades Quimicas o Fisicas
- Seccion 10: Estabilidad y Reactividad
- Seccion 11: Informacion Toxicologica
- Seccion 12: Informaicon Ecologica
- Seccion 13: Consideraciones de Disposicion
- Seccion 14: Informaicon de Transportacion
- Seccion 15: Informacion Regulatoria
- Seccion 16: Otra Informacion

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Otros Aspectos

- Transportación adecuada de los productos
- Forma de detectar presencia de químico
  - Producto toxico q no huele o irritante
  - Ej. Mina canario
- Discutir listado de químicos y riesgos
- Medidas de Protección

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Product Overview

OSHA® FactSheet

December 1st, 2013 Training Requirements for the Revised Hazard Communication Standard

OSHA revised its Hazard Communication Standard (HCS) to align with the United Nations' Globally Harmonized System of Classification and Labeling of Chemicals (GHS) and published it in the Federal Register in March 2012 (77 FR 17574). Two significant changes contained in the revised standard require the use of new labeling elements and a standardized format for Safety Data Sheets (SDSs), formerly known as, Material Safety Data Sheets (MSDSs). The new label elements and SDS requirements will improve worker understanding of the hazards associated with the chemicals in their workplace. To help companies comply with the revised standard, OSHA is phasing in the specific requirements over several years (December 1, 2013 to June 1, 2016).

The first compliance date of the revised HCS is December 1, 2013. By that time employers must have trained their workers on the new label elements and the SDS format. This training is needed early in the transition process since workers are already beginning to see the new labels and SDSs on the chemicals in their workplace. To ensure employees have the information they need to better protect themselves from chemical hazards in the workplace during the transition period, it is critical that employees understand the new label and SDS formats.

The list below contains the minimum required topics for the training that must be completed by December 1, 2013.

➢ Training on label elements must include information on:

- Type of information the employee would expect to see on the new labels, including the
  - ✓ **Product identifier:** how the hazardous chemical is identified. This can be (but is not limited to) the chemical name, code number or batch number. The manufacturer, importer or distributor can decide the appropriate product identifier. The same product identifier must be both on the label and in Section 1 of the SDS (Identification).
  - ✓ **Signal word:** used to indicate the relative level of severity of hazard and alert the reader to a potential hazard on the label. There are only two signal words, "Danger" and "Warning." Within a specific hazard class, "Danger" is used for the more severe hazards and "Warning" is used for the less severe hazards. There will only be one signal word on the label no matter how many hazards a chemical may have. If one of the hazards warrants a "Danger" signal word and another warrants the signal word "Warning," then only "Danger" should appear on the label.
  - ✓ **Pictogram:** OSHA's required pictograms must be in the shape of a square set at a point and include a black hazard symbol on a white background with a red frame sufficiently wide enough to be clearly visible. A square red frame set at a point without a hazard symbol is not a pictogram and is not permitted on the label. OSHA has designated eight pictograms under this standard for application to a hazard category.
  - ✓ **Hazard statement(s):** describe the nature of the hazard(s) of a chemical, including, where appropriate, the degree of hazard. For example: "Causes damage to kidneys through prolonged or repeated exposure when absorbed through the skin." All of the applicable hazard statements must appear on the label. Hazard statements may be combined where appropriate to reduce redundancies and improve readability. The hazard statements are specific to the hazard

classification categories, and chemical users should always see the same statement for the same hazards, no matter what the chemical is or who produces it.

✓ **Precautionary statement(s):** means a phrase that describes recommended measures that should be taken to minimize or prevent adverse effects resulting from exposure to a hazardous chemical or improper storage or handling.

✓ **Name, address and phone number of the chemical manufacturer, distributor, or importer**

- How an employee might use the labels in the workplace. For example,
  - ✓ Explain how information on the label can be used to ensure proper storage of hazardous chemicals.
  - ✓ Explain how the information on the label might be used to quickly locate information on first aid when needed by employees or emergency personnel.
- General understanding of how the elements work together on a label. For example,
  - ✓ Explain that where a chemical has multiple hazards, different pictograms are used to identify the various hazards. The employee should expect to see the appropriate pictogram for the corresponding hazard class.
  - ✓ Explain that when there are similar precautionary statements, the one providing the most protective information will be included on the label.

➢ Training on the format of the SDS must include information on:

- Standardized 16-section format, including the type of information found in the various sections
  - ✓ For example, the employee should be instructed that with the new format, Section 8 (Exposure Controls/Personal Protection) will always contain information about exposure limits, engineering controls and ways to protect yourself, including personal protective equipment.
- How the information on the label is related to the SDS
  - ✓ For example, explain that the precautionary statements would be the same on the label and on the SDS.

As referenced in Dr. Michaels' OSHA Training Standards Policy Statement (April 28, 2010) – with all training, OSHA requires employers to present information in a manner and language that their employees can understand. If employers customarily need to communicate work instructions or other workplace information to employees in a language other than English, they will also need to provide safety and health training to employees in the same manner. Similarly, if the employee's vocabulary is limited, the training must account for that limitation. By the same token, if employees are not literate, telling them to read training materials will not satisfy the employer's training obligation.

OSHA's Hazard Communication website (http://www.osha.gov/dsg/hazcom/index.html) has the following QuickCards and OSHA Briefs to assist employers with the required training.

- Label QuickCard (English/Spanish)
- Pictogram QuickCard (English/Spanish)
- Safety Data Sheet QuickCard (English) (Spanish)
- Safety Data Sheet OSHA Brief
- Label/Pictogram OSHA Brief (to come)

This is one in a series of informational fact sheets highlighting OSHA programs, policies or standards. It does not impose any new compliance requirements. For a comprehensive list of compliance requirements of OSHA standards or regulations, refer to Title 29 of the Code of Federal Regulations. This information will be made available to sensory-impaired individuals upon request. The voice phone is (202) 693-1999; teletypewriter (TTY) number: (877) 889-5627.

For assistance, contact us. We can help. It's confidential.

OSHA® Occupational Safety and Health Administration

U.S. Department of Labor
www.osha.gov (800) 321-OSHA (6742)

DSG FS-3642 02/2013

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OSHA® DATOS RÁPIDOS

Pictograma para la norma sobre la comunicación de peligros

A partir del 1.° de junio de 2015, la norma de comunicación de peligros (HCS, por sus siglas en inglés) exigirá pictogramas en las etiquetas para advertir a los usuarios de los peligros químicos a los que puedan estar expuestos. Cada pictograma representa un peligro definido y consiste en un símbolo sobre un fondo blanco enmarcado con un borde rojo. La clasificación del peligro químico determina el pictograma que muestra la etiqueta.

Pictogramas y peligros según la HCS

Peligro para la salud  • Carcinógeno • Mutagenicidad • Toxicidad para la reproducción • Sensibilización respiratoria • Toxicidad específica de órganos diana • Peligro por aspiración	**Llama**  • Inflamables • Pirofóricos • Calentamiento espontáneo • Desprenden gases inflamables • Reaccionan espontáneamente (autorreactivas) • Peróxidos orgánicos	**Signo de exclamación**  • Irritante (piel y ojos) • Sensibilizador cutáneo • Toxicidad aguda (dañino) • Efecto narcótico • Irritante de vías respiratorias • Peligros para la capa de ozono (no obligatorio)
Botella de gas  • Gases a presión	**Corrosión**  • Corrosión o quemaduras cutáneas • Lesión ocular • Corrosivo para los metales	**Bomba explotando**  • Explosivos • Reaccionan espontáneamente (autorreactivas) • Peróxidos orgánicos
Llama sobre círculo  • Comburentes	**Medio ambiente** (No obligatorio)  • Toxicidad acuática	**Calavera y tibias cruzadas**  • Toxicidad aguda (mortal o tóxica)

Para más información:

OSHA® Administración de Seguridad y Salud Ocupacional

Departamento de Trabajo de los EE. UU.

www.osha.gov (800) 321-OSHA (6742)

OSHA® DATOS RÁPIDOS

Fichas de datos de seguridad para la comunicación de peligros

La norma de comunicación de peligros (HCS, por sus siglas en inglés) exige que los fabricantes, distribuidores o importadores de productos químicos proporcionen fichas de datos de seguridad (FDS) (conocidas anteriormente como hojas de información sobre la seguridad de los materiales o MSDS) para comunicar los peligros de los productos químicos peligrosos. A partir del 1.° de junio de 2015, la HCS exigirá que las nuevas FDS sigan un formato uniforme e incluyan los números de sección, los encabezados y la información pertinente bajo los encabezados siguientes:

Sección 1, Identificación del producto, incluye el identificador del producto; nombre, dirección y número de teléfono del fabricante o distribuidor; número de teléfono de emergencia; uso recomendado; y restricciones del uso.

Sección 2, Identificación del peligro o peligros, describe todos los peligros relacionados con el producto químico y los elementos obligatorios de la etiqueta.

Sección 3, Composición/información sobre los componentes, incluye los datos acerca de ingredientes químicos y las declaraciones de secretos de fabricación.

Sección 4, Primeros auxilios, describe los síntomas o efectos agudos inmediatos y retardados importantes; y el tratamiento necesario.

Sección 5, Medidas de lucha contra incendios, enumera los medios y los equipos protectores adecuados para la extinción de incendios, y los peligros específicos de los productos químicos debidos al fuego.

Sección 6, Medidas que deben tomarse en caso de vertido accidental, menciona los procedimientos de emergencia, equipos protectores y métodos correctos para aislamiento y limpieza.

(Continúa al reverso)

OSHA 3518-02 2012 Hazard Communication Safety Data Sheets - Spanish

Para más información:

OSHA® Administración de Seguridad y Salud Ocupacional

Departamento de Trabajo de los EE. UU.

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OSHA® DATOS RÁPIDOS

Fichas de datos de seguridad para la comunicación de peligros

Sección 7, Manipulación y almacenamiento, describe las precauciones para manipular y almacenar con seguridad los materiales, entre otras, las incompatibilidades.

Sección 8, Controles de exposición/protección personal, enumera los límites de exposición permisibles (PEL) de la OSHA, valores límite umbrales (TLV), controles de ingeniería apropiados, y equipos de protección personal (EPP).

Sección 9, Propiedades físicas y químicas, menciona las características del producto químico.

Sección 10, Estabilidad y reactividad, describe la estabilidad química y la posibilidad de reacciones peligrosas.

Sección 11, Información toxicológica, enumera las vías de exposición, los síntomas y efectos agudos y crónicos relacionados, y las medidas numéricas de la toxicidad.

Sección 12, Información ecotoxicológica*
Sección 13, Información relativa a la eliminación de los productos*
Sección 14, Información relativa al transporte*
Sección 15, Información sobre la reglamentación*

Sección 16, Otras informaciones, incluye la fecha de preparación o de la última modificación.

*Nota: debido a que otros organismos regulan esta información, la OSHA no exigirá el cumplimiento de las secciones 12 a 15 (norma 29 CFR 1910.1200(g)(2)).

Los empleadores deben comprobar que los empleados tengan acceso fácil a las FDS.
Consultar la descripción detallada del contenido de las FDS en el Apéndice D de la norma 29 CFR 1910.1200.

Para más información:

OSHA® Administración de Seguridad y Salud Ocupacional
Departamento de Trabajo de los EE. UU.
www.osha.gov (800) 321-OSHA (6742)

OSHA® DATOS RÁPIDOS

Etiquetas para la norma sobre la comunicación de peligros

De acuerdo con su norma de comunicación de peligros (HCS, por sus siglas en inglés), la OSHA ha actualizado los requisitos para las etiquetas de los productos químicos peligrosos. A partir del 1.° de junio de 2015, se exigirá que todas las etiquetas incluyan pictogramas, una palabra de advertencia, indicaciones de peligro, consejos de prudencia, identificación del producto y la identificación del proveedor. A la derecha se presenta la muestra de una etiqueta modificada de acuerdo con la HCS, que indica los elementos obligatorios. La etiqueta puede contener también información suplementaria según sea necesario.

Para más información:

OSHA® Administración de Seguridad y Salud Ocupacional
(800) 321-OSHA (6742)
www.osha.gov

ETIQUETA DE MUESTRA

Código _____
Nombre del producto _____
Identificación del producto

Nombre de la empresa _____
Dirección _____
Ciudad _____ Estado _____
Código postal _____ País _____
Número de teléfono de emergencia _____
Identificación del proveedor

Pictogramas de peligro



Palabra de advertencia
Peligro

Líquido y vapores muy inflamables.
Puede provocar daños al hígado y a los riñones.
Indicaciones de peligro

Mantener el contenedor herméticamente cerrado.
Guardar en un lugar fresco, bien ventilado y cerrado bajo llave.
Mantener alejado de fuentes de calor, chispas o llama abierta. No fumar.
Usar sólo con herramientas que no generen chispas.
Usar equipo eléctrico a prueba de explosiones.
Tomar medidas de precaución contra descargas estáticas.
Fijar y conectar a tierra el equipo contenedor y receptor.
No respirar los vapores.
Usar guantes protectores.
Abstenerse de comer, beber o fumar cuando se use este producto.
Lavarse muy bien las manos después de manejar este producto.
Desechar el producto según las especificaciones y los reglamentos locales, regionales, nacionales e internacionales.

En caso de incendio: usar un extintor de polvo químico (tipo BC) o de bióxido de carbono (CO_2).

Primeros auxilios
Si hay exposición a este producto, llamar al Centro de Control de Intoxicaciones.
En caso de contacto con la piel o el cabello: quitarse de inmediato toda la ropa contaminada. Lavarse la piel con agua.

Consejos de prudencia

Información suplementaria

Instrucciones de uso
_____
_____
_____

Peso neto: _____ Número de lote: _____
Peso bruto: _____ Fecha de llenado: _____
Fecha de caducidad: _____

RX 6
Page 1 of 1
0017480

Gmail by Google

Tamara Echevarria < tamara.homeca@gmail.com>

Quote Homeca

14 messages

Tamara Echevarria < tamara.homeca@gmail.com> Fri, Oct 4, 2013 at 10:16 AM
To: "Aponte, Gabriel" <Gabriel.Rodriguez@grainger.com>

Favor de cotizar lo siguiente y si están disponibles:

Item # 8EXD9
Item # 45H630
Item # 15Y489

Gracias!

–

Tamara Echevarria Santiago
Directora Departamento Cumplimiento
Homeca Recycling Center Co, Inc
1575 Ave. Muñoz Rivera PMB 120
Ponce, PR 00717-0211
Office: 787-841-2223
Mobile: 787-632-6173
Fax. 787-984-0059
E:mail: tamara@homecainc.com, tamara.homeca@gmail.com

Aponte, Gabriel < Gabriel.Rodriguez@grainger.com> Fri, Oct 4, 2013 at 10:33 AM
To: Tamara Echevarria <tamara.homeca@gmail.com>

Buenas tardes Tamara:

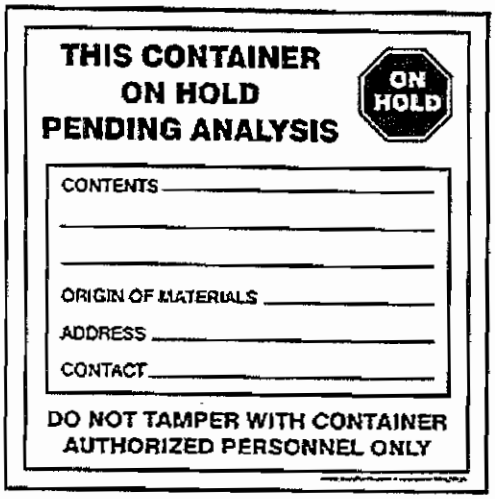
Lamentablemente no tengo los materiales disponibles en PR.

Label, Vinyl, 6 In. H, PK 100 **Item # 8EXD9 $21.00 (disponible en 2 dias Fedex or UPS)**

Waste Label, Legend This Container On Hold Pending Analysis, Legend/Background Color Black, Red/White, Material Vinyl, Height 6 In., Width 6 In., Standards D.O.T. (49 CFR Part 172) and EPA (40 CFR Part 262.31 - 32), Package Quantity 100

CONFIDENTIAL

RX 6
Page 1532 of 1,639
001781



GHS Employee Wallet Card, Spanish, PK 25 NEW! Item # 45H630 $20.00

(disponible ente 8 a 10 dias)

Wallet Card, Instructional, Subject Matter Workplace SafetyPreprinted Form FormatHeight 3-1/2 In., Width 5 In., Depth .07 In., Language Spanish, Provides Training for Globally Harmonized System, OSHA Compliance, OSHA 1910.1200 Standards, Material Plastic, Includes Wallet Card, Package Quantity 25



RIGHT-TO-KNOW WALLET CARDSIZE-SPANISH Item # 15Y489

$52.00 (disponible entre 8 a 10 dias)

Right to Know Wallet CardsHeight 2-1/8 In., Width 3-3/8 In.

Aponte, Gabriel < Gabriel.Rodriguez@grainger.com> Wed, Oct 16, 2013 at 10:07 AM
To: Tamara Echevarria <tamara.homeca@gmail.com>

Fax: 787-275-3517

From: Tamara Echevarria [mailto:tamara.homeca@gmail.com]
Sent: Wednesday, October 16, 2013 2:02 PM
To: Aponte, Gabriel
Subject: Re: Quote Homeca

[Quoted text hidden]

Aponte, Gabriel < Gabriel.Rodriguez@grainger.com> Wed, Oct 16, 2013 at 10:06 AM
To: Tamara Echevarria <tamara.homeca@gmail.com>

Me la puede enviar a este e mail

From: Tamara Echevarria [mailto:tamara.homeca@gmail.com]
Sent: Wednesday, October 16, 2013 2:02 PM
To: Aponte, Gabriel
Subject: Re: Quote Homeca

[Quoted text hidden]

Tamara Echevarria < tamara.homeca@gmail.com> Wed, Oct 16, 2013 at 10:12 AM
To: Eduardo Ramos <eramosvera@homecainc.com>

sugiero compren en grainger los label pending analysys para las bolsas de bonus
[Quoted text hidden]

—
—

Tamara Echevarria Santiago
Directora Departamento Cumplimiento
Homeca Recycling Center Co, Inc
1575 Ave. Muñoz Rivera PMB 120
Ponce, PR 00717-0211
Office: 787-841-2223
Mobile: 787-632-6173
Fax. 787-984-0059
E:mail: tamara@homecainc.com, tamara.homeca@gmail.com

Tamara Echevarria < tamara.homeca@gmail.com> Wed, Oct 16, 2013 at 12:05 PM
To: "Aponte, Gabriel" <Gabriel.Rodriguez@grainger.com>

ya se lo envie
[Quoted text hidden]

Aponte, Gabriel < Gabriel.Rodriguez@grainger.com> Wed, Oct 16, 2013 at 12:20 PM
To: Tamara Echevarria <tamara.homeca@gmail.com>

Gracias

From: Tamara Echevarria [mailto:tamara.homeca@gmail.com]
Sent: Wednesday, October 16, 2013 4:06 PM

[Quoted text hidden]

[Quoted text hidden]

---

tamara.homeca < tamara.homeca@gmail.com> Fri, Oct 18, 2013 at 9:01 AM
To: "Aponte, Gabriel" <Gabriel.Rodriguez@grainger.com>

(787) 595-7715 este es el numero de carinma

Sent from my iPhone

On 10/16/2013, at 4:20 p.m., "Aponte, Gabriel" <Gabriel.Rodriguez@grainger.com> wrote:

Gracias

From: Tamara Echevarria [mailto:tamara.homeca@gmail.com]
Sent: Wednesday, October 16, 2013 4:06 PM
To: Aponte, Gabriel
Subject: Re: Quote Homeca

ya se lo envie

On Wed, Oct 16, 2013 at 2:07 PM, Aponte, Gabriel <Gabriel.Rodriguez@grainger.com> wrote:

Fax: 787-275-3517

From: Tamara Echevarria [mailto:tamara.homeca@gmail.com]
Sent: Wednesday, October 16, 2013 2:02 PM
To: Aponte, Gabriel
Subject: Re: Quote Homeca

gabriel dame un numero de fax para enviarte la orden de los labels gracias

On Fri, Oct 4, 2013 at 2:33 PM, Aponte, Gabriel <Gabriel.Rodriguez@grainger.com> wrote:

Buenas tardes Tamara:

Lamentablemente no tengo los materiales disponibles en PR.

Label, Vinyl, 6 In. H, PK 100 **Item # 8EXD9 $21.00 (disponible en 2 dias Fedex or UPS)**

Waste Label, Legend This Container On Hold Pending Analysis, Legend/Background Color Black, Red/White, Material Vinyl, Height 6 In., Width 6 In., Standards D.O.T. (49 CFR Part 172) and EPA (40 CFR Part 262.31 - 32), Package Quantity 100

<image001.jpg>

GHS Employee Wallet Card, Spanish, PK 25<image002.gif> **Item # 45H630 $20.00 (disponible ente 8 a 10 dias)**

Wallet Card, Instructional, Subject Matter Workplace SafetyPreprinted Form FormatHeight 3-1/2 In., Width 5 In., Depth .07 In., Language Spanish, Provides Training for Globally Harmonized System, OSHA Compliance, OSHA 1910.1200 Standards, Material Plastic, Includes Wallet Card, Package Quantity 25

<image003.jpg>

RIGHT-TO-KNOW WALLET CARDSIZE-SPANISH **Item # 15Y489 $52.00 (disponible entre 8 a 10 dias)**

Right to Know Wallet CardsHeight 2-1/8 In., Width 3-3/8 In.

<image004.jpg>

[Quoted text hidden]
[Quoted text hidden]
[Quoted text hidden]

Aponte, Gabriel < Gabriel.Rodriguez@grainger.com> Fri, Oct 18, 2013 at 9:03 AM
To: "tamara.homeca" <tamara.homeca@gmail.com>

Gracias

From: tamara.homeca [mailto:tamara.homeca@gmail.com]
Sent: Friday, October 18, 2013 1:01 PM

[Quoted text hidden]

[Quoted text hidden]

---

tamara.homeca < tamara.homeca@gmail.com> Mon, Nov 4, 2013 at 9:05 AM
To: "Aponte, Gabriel" <Gabriel.Rodriguez@grainger.com>

Saludos me indicaron que llegaron los labels de pending analysis pero no me ha llegado esto http://www.grainger.com/Grainger/HAZARD-COMMUNICATION-Wallet-Card-45H630

Me puedes dar estatus? Gracias!

Sent from my iPhone

On 10/04/2013, at 3:33 p.m., "Aponte, Gabriel" <Gabriel.Rodriguez@grainger.com> wrote:

Buenas tardes Tamara:

Lamentablemente no tengo los materiales disponibles en PR.

Label, Vinyl, 6 In. H, PK 100 **Item # 8EXD9 $21.00 (disponible en 2 dias Fedex or UPS)**

Waste Label, Legend This Container On Hold Pending Analysis, Legend/Background Color Black, Red/White, Material Vinyl, Height 6 In., Width 6 In., Standards D.O.T. (49 CFR Part 172) and EPA (40 CFR Part 262.31 - 32), Package Quantity 100

<image001.jpg>

GHS Employee Wallet Card, Spanish, PK 25<image002.gif> **Item # 45H630 $20.00 (disponible ente 8 a 10 dias)**

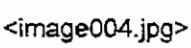
Wallet Card, Instructional, Subject Matter Workplace SafetyPreprinted Form FormatHeight 3-1/2 In., Width 5 In., Depth .07 In., Language Spanish, Provides Training for Globally Harmonized System, OSHA Compliance, OSHA 1910.1200 Standards, Material Plastic, Includes Wallet Card, Package Quantity 25

<image003.jpg>

RIGHT-TO-KNOW WALLET CARDSIZE-SPANISH Item

15Y489 $52.00 (disponible entre 8 a 10 dias)

Right to Know Wallet CardsHeight 2-1/8 In., Width 3-3/8 In.



From: Tamara Echevarria [mailto:tamara.homeca@gmail.com]
Sent: Friday, October 04, 2013 2:17 PM
To: Aponte, Gabriel
Subject: Quote Homeca

Favor de cotizar lo siguiente y si están disponibles:

Item # 8EXD9

Item # 45H630

Item # 15Y489

Gracias!

–

Tamara Echevarria Santiago

Directora Departamento Cumplimiento

Homeca Recycling Center Co, Inc

1575 Ave. Muñoz Rivera PMB 120

Ponce, PR 00717-0211

Office: 787-841-2223

Mobile: 787-632-6173

Fax. 787-984-0059

E:mail: tamara@homecainc.com, tamara.homeca@gmail.com

Aponte, Gabriel < Gabriel.Rodriguez@grainger.com> Mon, Nov 4, 2013 at 10:22 AM
To: "tamara.homeca" <tamara.homeca@gmail.com>

Buenas tardes Tamara:

La mercancia llego y entiendo que la recogieron ya. Cualquier duda por por favor dejeme saber. 787-788-1315

Saludos

From: tamara.homeca [mailto:tamara.homeca@gmail.com]
Sent: Monday, November 04, 2013 1:06 PM
To: Aponte, Gabriel
Subject: Re: Quote Homeca

[Quoted text hidden]

---

tamara.homeca < tamara.homeca@gmail.com> Mon, Nov 4, 2013 at 10:24 AM
To: "Aponte, Gabriel" <Gabriel.Rodriguez@grainger.com>

Me puedes verificar quien la recogio para yo poder preguntar porque donde llegaron los labela me dicen q no llego. No te puedo llamar porque estoy en adiestramiento. Pls me dejas saber para q no se pierdan

Sent from my iPhone
[Quoted text hidden]

Aponte, Gabriel < Gabriel.Rodriguez@grainger.com> Mon, Nov 4, 2013 at 10:32 AM
To: "tamara.homeca" <tamara.homeca@gmail.com>

Seguro, no te apures, yo te ayudo

Saludos

From: tamara.homeca [mailto:tamara.homeca@gmail.com]
Sent: Monday, November 04, 2013 2:24 PM

[Quoted text hidden]

[Quoted text hidden]

PROGRAMA COMUNICACIÓN DE RIESGOS

(MSDS & DATA TECNICA)

CONFIDENTIAL & PRIVILEGED

Programa de Comunicación de Riesgo

Homeca Recycling Center Co., Inc

Contenido

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Programa de Comunicación de Riesgo

Homeca Recycling Center Co., Inc

Introducción

La Administración para la Salud y Seguridad Ocupacional (OSHA) por sus siglas en ingles), a través de la Reglamentación Federal, 29 CFR Parte 1910.1200- Norma de Comunicación de Riesgos o "Derecho a Saber", tiene el propósito de reducir la incidencia de lesiones y enfermedades ocupacionales asociadas con la exposición a sustancias químicas peligrosas. La norma requiere el desarrollo e implantación de un Programa Escrito de Comunicación e Riesgo para proteger a los empelados de los riesgos físicos y a la salud, asociados a estas sustancias químicas peligrosas presentes en el lugar de trabajo y que la información que se obtiene se le comunique a todos los empelados cubiertos por la norma.

Propósito

Homeca Recycling, de acuerdo con la Reglamentación de OSHA, desarrollo un Programa de Comunicación de Riesgos para asegurar un ambiente de trabajo seguro y saludable para todos los empleados que se exponen a sustancias químicas peligrosas. El programa se dirige a informar a todos los empleados lo siguiente:

a) Contenido de la reglamentación
b) Peligros de las sustancias químicas en las áreas de trabajo
c) Medidas de control para evitar accidentes
d) Medidas de protección

Alcance y Aplicabilidad

El Programa de Comunicación de Riesgo cubre a todos los empleados expuestos o que trabajen en áreas donde se utilizan o almacenan sustancias químicas peligrosas, según lo establece la Reglamentación Federal ene l 29 CFR Parte 1910.1200.

Inventario de sustancias químicas

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CONFIDENTIAL & PRIVILEGE
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El inventario de sustancias químicas lo realizará y actualizará el supervisor o encargado de cada área de trabajo donde estas sustancias se utilizaran o almacenan, según sea necesario, especialmente cuando se añadan nuevas sustancias (Anejo 1 Forma A). Se mantendrá una copia del Inventario de Sustancias Químicas Peligrosas disponible y accesible al empleado en cada área de trabajo. La Hoja de Inventario debe incluir como mínimo el nombre de la sustancia, y del fabricante o distribuidor de éste. La oficina de Salud y Seguridad o funcionario encargado mantendrá una copia del inventario.

Hojas de Datos de Seguridad de Materiales (MSDS's, por sus siglas en Ingles de Material Safety Data Sheet)

La hoja de Datos de Seguridad de Materiales (MSDS's) estará disponible u accesible al empleado en cada area de trabajo para cada una de las sustancias químicas peligrosas que aparecen en el inventario (Anejo 2). El supervisor o encargado de cada área de trabajo será responsable de actualizar la carpeta de los MSDS's, según sea necesario. Además, contactara al fabricante o suplidor cuando el MSDS's de la sustancia no esté disponible o no se haya recibido.

La Oficina de Salud y Seguridad o el funcionario encargado mantendrá una copia de cada uno de los MSDS's de las sustancias que se incluyen en el inventario. Los MSDS's estarán disponibles y accesibles a los empleados durante cada turno de trabajo. Si no lo están, el empleado informara al supervisor o encargado de cada área. Los empleados será responsables de familiarizarse con la información que contiene el MSDS's antes de comenzar a trabajar con cualquier sustancia química peligrosa.

Rotulación y Otras Formas de Aviso

El supervisor o encargado de cada área de trabajo se asegurara y será responsable de que todos los envases se identifiquen y rotulen adecuadamente. También verificara la información que contiene la etiqueta (nombre del material o producto) sea el mismo que aparece en el MSDS's. La etiqueta estará visiblemente colocada en el envase y deberá contener como mínimo la siguiente información:

a) Identidad / Nombre Químico del Material
b) Avisos de Seguridad Apropiado

c) Nombre y dirección del fabricante, importador, distribuidor o persona responsable

Además, la etiqueta deberá estar legible, escrita en inglés o español y no debe estar mutilada, de lo contrario se debe reemplazar. Las sustancias peligrosas que se identifiquen como "carcinógenas" y aquellas de las cuales se sospecha puedan ser "carcinógenas", deberán tener en su etiqueta el aviso de seguridad correspondiente. Los avisos de seguridad también deberán incluir el órgano crítico o afectado por esta sustancia, por ejemplo: Peligro al Pulmón.

No se requiere rotular los envases que se han utilizado para transferir sustancias químicas peligrosas si su uso es inmediato. Tampoco se requerirá que las tuberías o sistemas de tuberías estén rotuladas, pero el contenido de las mismas se deberá discutir en las secciones de adiestramiento.

Tareas no rutinarias

Usualmente se le requerirá a los empleados realizar tareas no rutinarias tales como: limpieza de tanques, entrar a espacios confinados y limpieza de calderas, entre otros. Estas tareas, por lo general, envuelven algún tipo de riesgo. El supervisor o encargado de la facilidad o proyecto será responsable de informarle al empleado antes de comenzar los trabajos, los riesgos y características de peligrosidad de la sustancia química que utilizaría, medidas de protección que pueda tomar para reducir o evitar una exposición u procedimientos de emergencias.

Información y Adiestramiento

La norma de comunicación de riesgo establece que se desarrolle un Programa de Orientación y Adiestramiento a Empleados para informarles los riesgos asociados a las sustancias químicas presentes en el área de trabajo. Sera responsabilidad de la Oficina de Salud y Seguridad o funcionario encargado, adiestrar o coordinar los adiestramientos para sus empleados cuando:

a) El empleado comience a trabajar
b) Se introduce un proceso, equipo nuevo o sustancia
c) Se revisa, modifica o actualizan procedimientos
d) Existe nueva información sobre las sustancias químicas

El Programa de Orientación y Adiestramiento a Empleados debe incluir como mínimo la siguiente información:

a) Revisar la Norma de Comunicación de Riesgos, 29 CFR Parte 1910.1200, con los empleados.
b) Revisar el Programa de Comunicación de Riesgos con los empleados.
c) Localización, disponibilidad y accesibilidad de Programa de Comunicación de Riesgos.
d) Disponibilidad y accesibilidad de los MSDS's y como leer e interpretar la información contenida en estos.
e) Métodos para detectar la presencia o escape de sustancias químicas peligrosas.
f) Riesgos o peligros físicos de las sustancias químicas peligrosas.
g) Propiedades físicas y químicas de las sustancias químicas peligrosas.
h) Efectos a la salud, síntomas y señales de exposición.
i) Sistema de rotulación que se utiliza.
j) Medidas que el empleado puede tomar para protegerse de los peligros asociados a estas sustancias químicas.
k) Procedimientos a seguir en caso de un derrame o accidente.

La Oficina de Salud y Seguridad o funcionario encargado será responsable de identificar los empleados que se afecten por la norma, determinar las necesidades de adiestramientos y mantener un Registro de Asistencia a los adiestramientos que se ofrecen a los empleados. Sera responsable de revisar el contenido del Programa de Adiestramiento y actualizarlo según sea necesario.

Contratistas

La Oficina de Salud y Seguridad Ocupacional o funcionario encargado junto al supervisor de área serán responsables de informar a toda persona o compañía que contrate HOMECA lo siguiente:

a) Localización y disponibilidad de Programa de Comunicación de Riesgos.
b) Sustancias químicas peligrosas que se utilizan en el área donde se realizarán los trabajos.
c) Sistema de rotulación que se utiliza.
d) Localización, disponibilidad y accesibilidad de las MSDS's.
e) Medidas de precaución para evitar la exposición a estas sustancias.

Si el contratista o encargado de realizar los trabajos trae sustancias químicas al área deberá proveerle al supervisor o encargado del área y a la Oficina de Salud y Seguridad o funcionario encargado toda la información que se relacione con esta.

Reglas Básicas de Seguridad:

1. Conozca la localización de:
    a. Programa de Comunicación de Riesgos
    b. Inventario de Sustancias Químicas Peligrosas
    c. Hojas de Datos de Seguridad de Materiales (MSDS's)
    d. Equipos de Protección Personal
2. Conozca la localización y uso del equipo de seguridad tales como:
    a. Extintor
    b. Material para el control de derrames
    c. Ducha de Seguridad y ducha para ojos.
3. Conozca que hacer en caso de una emergencia.
4. Conozca los riesgos de las sustancias químicas peligrosas que utiliza.
5. Limite de acceso a las áreas donde se utilizan sustancias químicas peligrosas solamente a personal autorizado.
6. NO utilice cosméticos, no fume, no ingiera alimentos en área donde se utilizan sustancias químicas peligrosas.
7. Utilice siempre el equipo de protección personal requerido para trabajar en las áreas donde se utilizan sustancias químicas peligrosas.
8. Lávese las manos antes y después de utilizar cualquier sustancia química peligrosa.
9. Limpie y descontamine diariamente todas las superficies de trabajo donde se utilizan sustancias químicas peligrosas.

Revisiones y Actualizaciones

Una copia de este Plan y todas las revisiones subsiguientes permanecerán en las facilidades y oficinas administrativas. Copias adicionales de este plan estarán disponibles a través del Oficial de Salud y Seguridad o funcionario encargado. El programa será evaluado anualmente.

¿CÓMO LEER UNA HOJA INFORMATIVA SOBRE SUSTANCIAS PELIGROSAS (MSDS)?

UCLA Labor Occupational Safety & Health Program (LOSH)

(310) 794-5964

¿Qué es una Hoja Informativa sobre Sustancias Peligrosas (MSDS)?



Una Hoja Informativa sobre Sustancias Peligrosas (MSDS) es un documento que da información detallada sobre la naturaleza de una sustancia química, tal como sus propiedades físicas y químicas, información sobre salud, seguridad, fuego y riesgos de medio ambiente que la sustancia química pueda causar.



¿Cómo le puede proteger a UD. la Hoja Informativa sobre Sustancias Peligrosas (MSDS)?



Aparte de dar información sobre la naturaleza de una sustancia química, una MSDS también provee información sobre cómo trabajar con una sustancia química de una manera segura, y qué hacer si hay un derrame accidental.

¿Quién es responsable de preparar la Hoja Informativa sobre Sustancias Peligrosas (MSDS)?

El Estándar de Comunicación de Riesgos de la Administración Federal de Seguridad y Salud Ocupacional (Federal Occupational Safety and Health Administration - OSHA) 29 CFR 1910.1200 requiere que los fabricantes y distribuidores de productos químicos preparen y remitan la Hoja Informativa sobre Sustancias Peligrosas (MSDS) con el primer envío de cualquier producto químico peligroso, y el empleador es responsable de poner estas Hojas Informativas al alcance de Uds. los trabajadores.

¿Para quién es la Hoja Informativa sobre Sustancias Peligrosas (MSDS)?



Esta Hoja Informativa es para:

- los trabajadores que puedan estar expuestos a materiales peligrosos
- personal de emergencia (por ejemplo, bomberos), quienes posiblemente limpien un derrame o escape.



¿Qué información se debe contener en una Hoja Informativa sobre Sustancias Peligrosas (MSDS)?

Las Hojas Informativas sobre Sustancias Peligrosas (MSDS) deben contener información básica similar, tal como:

- **Identificación química:** Nombre del producto.
- **Información sobre el productor:** Nombre, dirección número de teléfono y teléfono de emergencia del fabricante.

Produced by the University of California, Los Angeles, Labor Occupational Safety and Health (LOSH) Program, August 2003.

HOJA INFORMATIVA SOBRE SUSTANCIAS PELIGROSAS (MSDS)?

Qué información debe contener una Hoja Informativa sobre Sustancias Peligrosas (MSDS)?

- **Ingredientes Peligrosos/Información de Identificación:** Lista de sustancias químicas peligrosas. Dependiendo del Estado, la lista puede contener todos los componentes químicos, incluso aquellos que no son peligrosos, o sólo aquellos que tienen estándares de OSHA. Ya que los productos químicos son usualmente conocidos por nombres diferentes, todos los nombres comunes usados en el mercado deben ser anotados.
  Asimismo, el límite legal de exposición permitido (Permisible Exposure Limit – PEL) para cada ingrediente de la sustancia peligrosa debe ser anotado.
- **Características Físicas/Químicas:** Punto de combustión, presión y densidad de vapor, punto de ebullición, tasa de evaporación, etc.
- **Información sobre riesgos de fuego y explosión:** Punto de combustión, límites de combustión, métodos de extinción, procedimientos especiales contra el fuego, peligros especiales de explosión o fuego.
- **Información sobre Reactividad:** Cómo reaccionan ciertos materiales cuando se mezclan o se almacenan junto con otros.
- **Información sobre Riesgos para la Salud:** Efectos que las sustancias químicas pueden causar (agudos = inmediatos; crónicos = a largo plazo), vías por las que la sustancia química puede entrar al cuerpo (pulmones, piel o boca), síntomas, procedimientos de emergencia y primeros auxilios.
- **Precauciones para un manejo y uso seguros:** Qué hacer en caso que el material químico se derrame o fugue, cómo deshacerse de los desperdicios del material químico de una manera segura, cómo manipular y almacenar materiales de manera segura.
- **Medidas de Control:** Ventilación (local, general, etc.), tipo de respirador/filtro que debe usarse, guantes protectores, ropa y equipo adecuados, etc.

¿Dónde puedo obtener Hojas Informativas sobre Sustancias Peligrosas?



- En su lugar de trabajo: Todos los trabajadores deben tener acceso fácil a estas hojas informativas.
- El empleador debe pedirlas al fabricante o distribuidor que le vendió los materiales; también los trabajadores pueden solicitarlas.
- El Internet también ofrece recursos e información sobre las Hojas Informativas sobre Sustancias Peligrosas.
- Su sindicato también podría tener Hojas Informativas.

Si necesita más información:

OSHA

Llame a su Oficina Estatal de Administración de Seguridad y Salud Ocupacional (OSHA), o a la Oficina Federal de OSHA . Si la información en la Hoja Informativa sobre Sustancias Peligrosas no es correcta, la Oficina Federal de OSHA pude pedir al fabricante que actualice las Hojas Informativas.

Llame al Instituto Nacional de Salud y Seguridad Ocupacional (NIOSH), sin costo para Ud., al (800) 356-4674 para obtener información sobre la identificación de las sustancias químicas y los efectos a la salud.

NIOSH

Contacte a su sindicato.

Produced by the University of California, Los Angeles, Labor Occupational Safety and Health (LOSH) Program, August 2003.

Homeca Recycling

Inventario Quimico

Facilidad: Pro Canbe

Nombre Producto	Descripcion	Cantidad	Localizacion
Sam-Tack	High Tack Spray Adhesive	cajas	Almacen
Polyethylene Resins	High density Polyethylene	cajas	Almacen
N# Shen	Silver Duct Tape	cajas	Almacen
ITW Dymon	Proten Body Shampoo	cajas	Almacen
Diesel	Diesel		Almacen
Gasoline	90 oct		Almacen

Preparado por: Rafael Echuave Sr.

Fecha: Diciembre 2017

001800

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Homeca Recycling

Inventario Quimico

Facilidad: Praxair

Nombre Producto	Descripcion	Cantidad	Localizacion
Palmolive	Detergente	galones	Almacen
Dymon	Body shampo	Caja	Almacen
Gasoline	QD	galons	Almacen
Diesel			Tanque
Gas	Propane	Tanque	Almacen
Oxigeno	Oxigen	Botella	
Rem Tack	Spray Adhesive	caja	Almacen
Dgw	Detergente	5 Gln	Almacen
WD 40	Penetrante		
Pro Form Brand	All Purpose		

Preparado por: Rafael Echavarria

Fecha: _____

Item# 57002

RAM-TACK SPRAY ADHESIVE. (12) 12OZ CANS PER CASE

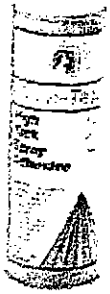
Qty	Your price is
1+ cs	$ 45.000 per cs

Total Availability: In Stock

Quantity 1 cs

ADD ITEM TO CART

ADD ITEM TO MY PRODUCT GROUPS



Product Information

Our best formula, this high-solids adhesive provides the maximum performance in an adhesive aerosol. The heavy spray pattern is ideal for uneven or porous substrate bonding such as unpainted cinder block or wood. Formulated without chlorinated solvents or ozone depleters, this industrial grade formula provides waterproof and flexible bonds for even the toughest jobs.

001802

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MATERIAL SAFETY DATA SHEET

This MSDS complies with OSHA'S Hazard Communication Standard 29 CFR 1910.1200 and OSHA Form 174

IDENTITY AND DISTRIBUTOR'S INFORMATION

NFPA Rating: Health-2; Flammability-3; Reactivity-0; Special- -

HMIS Rating: Health-2; Flammability-3; Reactivity-0; Personal Protection-B

Manufactured For: ARAMSCO
Address: 1480 Grandview Avenue
Thorofare, NJ 08086

DOT Hazard Classification: ORM-D
Identity (trade name as used on label):
Ram-Tack
High Tack Spray Adhesive

Phone: 800-767-6933 www.aramsco.com

MSDS Number: A06539 **Revision-** 5

DOT EMERGENCY RESPONSE CHEMTREC: 800-424-9300

NOTICE: JUDGEMENT BASED ON INDIRECT TEST DATA

Date Prepared: 10/28/05 **Prepared By:** IBTR
Information Calls: (770)422-2071

SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION

COMPONENTS-CHEMICAL NAMES AND COMMON NAMES (Hazardous Components 1% or greater; Carcinogens 0.1% or greater)	CAS Number	SARA 313 LIST	OSHA PEL (ppm)	ACGIH TLV (ppm)	Carcinogen Ref. Source **
ACETONE	67-64-1	No	1000	750	d
HEPTANE	142-82-5	No	500	400	d
ISOBUTANE / PROPANE BLEND	75-28-5	No	800	800	d
	74-98-6	No	1000	1000	d

SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: N/A
Specific Gravity (H2O=1): Concentrate Only = 0.853
Vapor Pressure: PSIG @ 70°F (Aerosols): Max.80
Vapor Pressure (Non-Aerosols)(mm Hg and Temperature): N/A
Vapor Density (Air = 1): N/E
Evaporation Rate (=1): N/E
Solubility in Water: Partial
Water Reactive: No
Appearance and Odor: Straw colored liquid with ketone solvent odor.

SECTION 3 - FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY as per USA FLAME PROJECTION TEST (aerosols) EXTREMELY FLAMMABLE

Auto Ignition Temperature N/E

Flammability Limits in Air by % in Volume: % LEL: N/E % UEL: N/E

FLASH POINT AND METHOD USED (non-aerosols): N/A

SPECIAL FIRE FIGHTING PROCEDURES: Self-contained breathing apparatus. Use water fog to cool containers to prevent rupturing & exploding containers. Provide shielding for personnel.

EXTINGUISHER MEDIA: Foam, dry chemical, carbon dioxide, water.

Unusual Fire & Explosion Hazards: Do not expose aerosols to temperatures above 130°F or the container may rupture.

SECTION 4 - REACTIVITY HAZARD DATA

STABILITY [X] STABLE [ ] UNSTABLE

HAZARDOUS POLYMERIZATION [ ] WILL [X] WILL NOT OCCUR

Incompatibility (Mat. to avoid): Strong oxidizing agents.

Conditions to Avoid: Open flame, welding arcs, heat, sparks.

Hazardous Decomposition Products: Carbon dioxide, carbon monoxide.

SECTION 5 - HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY: [X] INHALATION [ ] INGESTION [X] SKIN ABSORPTION [ ] EYE [ ] NOT HAZARDOUS

ACUTE EFFECTS

Inhalation: Excessive inhalation of vapors can cause nasal & respiratory irritation, dizziness, weakness, nausea, headache, possible unconsciousness or asphyxiation.

Eye Contact: Irritation.

Skin Contact: Irritation due to defatting of skin.

Ingestion: Possible chemical pneumonitis if aspirated into lungs.

CHRONIC EFFECTS: (Effects due to excessive exposure to the raw materials of this mixture) Excessive inhalation of solvents may cause brain and other nervous system damage.

Medical Conditions Generally Aggravated by Exposure: May aggravate existing eye, skin, or upper respiratory conditions.

EMERGENCY FIRST AID PROCEDURES

Eye Contact: Flush with water for 15 minutes. If irritated, seek medical attention.

Skin Contact: Wash with soap and water. If irritated, seek medical attention.

Inhalation: Remove to fresh air. Resuscitate if necessary. Get medical attention.

Ingestion: DO NOT INDUCE VOMITING. Drink two large glasses of water. Get immediate medical attention.

SECTION 6 - CONTROL AND PROTECTIVE MEASURES

Respiratory Protection (specify type): If vapor concentration exceeds TLV, use respirator approved by NIOSH in positive pressure mode.

Protective Gloves: Neoprene.

Eye Protection: Safety glasses recommended.

Ventilation Requirements: Adequate ventilation to keep vapor concentration below TLV.

Other Protective Clothing & Equipment: None

Hygienic Work Practices: Wash with soap and water before handling food. Remove contaminated clothing.

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken If Material Is Spilled Or Released: Absorb with suitable medium. Incinerate or landfill according to local, state or federal regulations. DO NOT FLUSH TO SEWER.

Waste Disposal Methods: Aerosol cans when vented to atmospheric pressure through normal use, pose no disposal hazard.

Precautions To Be Taken In Handling & Storage: Do not puncture or incinerate containers. Do not store at temperatures above 130°F.

Other Precautions &/or Special Hazards: KEEP OUT OF REACH OF CHILDREN. Avoid food contamination. Avoid breathing vapors. Remove ignition sources.

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind.

** Chemical Listed as Carcinogen or Potential Carcinogen. [a] NTP [b] IARC Monograph [c] OSHA [d] Not Listed [e] Animal Data Only

THIS MSDS IS CURRENT AS OF January 21, 2010. The DATE PREPARED section is the original date assembled and remains current until a change is necessary. This is tracked internally at the manufacturer by these date codes and therefore must remain as the originating date.

Item# 56052

NYLON REINFORCED 20' X 100' POLY SHEETING

Qty	Your price is
1+ rl	$ 142.800 per rl

Total Availability: In Stock

Quantity 1 rl

ADD ITEM TO CART

ADD ITEM TO MY PRODUCT GROUPS

Product Information

Aramsco offers a full line of polyethylene sheeting for a variety of uses. Consult the laws, codes, ordinances and regulations in your jurisdiction with regard to the required specifications of sheeting in projects using asbestos containing material, because those requirements may vary.

(10 Mil Equivalent) Nylon Reinforced, 20' x 100'

CLEAR 6 MIL 20' X 100' POLY SHEETING

Qty	Your price is
1+ rl	$ 103.000 per rl

Total Availability: In Stock

Quantity 1 rl

ADD ITEM TO CART

ADD ITEM TO MY PRODUCT GROUPS

Product Information

Heavy duty polyethylene sheeting used for constructing containment.

- Available from 1.5mil to 10mil thickness
- Available clear or black
- Available fire retardant

tyco / Plastics & Adhesives / Tyco Plastics

STARTEX® Products

CONSTRUCTION FILM PROPERTIES						
TENSILE STRENGTH MIN. PSI		.002 ★	.004 ★	.006 ★	.008 ★	.010 ★
Lengthwise MD)	ASTM D 882	1700	1700	1700	1700	1700
Crosswise (TD)		1200	1200	1200	1200	1200
ELONGATION, MIN. PERCENT		.002 ★	.004 ★	.006 ★	.008 ★	.010 ★
Lengthwise MD)	ASTM D 882	225	225	225	225	225
Crosswise (TD)		350	350	350	350	350
WATER VAPOR TRANSMISSION RATE		.002 ★	.004 ★	.006 ★	.008 ★	.010 ★
Grams / 1001N^2 / 24 Hours	ASTM E 96	.70	.35	.23	.18	.14

★ **These are typical values and are not to be construed as limiting specifications for polyethylene.**

FLAME RETARDANT SHEETING ★				
PROPERTY		**UNITS**	**VALUE**	
Thickness		Mils	4.0	6.0
Tensile Strength @ Break	ASTM D 882	PSI PSI	MD: 1800 TD: 1300	MD: 1700 TD: 1200
Elongation @ Break	ASTM D 882	% %	MD: 200 TD: 300	MD: 225 TD: 350
Dart Drop Impact Strength	ASTM D 1709	g	200	250
Water Vapor Transmission Rate	ASTM E 96	G /100 in^2 / 24 h	0.24	.19

Startex® Flame Retardant Sheeting –

- Is registered as a flame resistant product by the state of California
- Is certified by the Boston Fire Department suitable for use in temporary enclosures.

★ This data shown above are to the best of our knowledge reliable on the data compiled. No representation, warranty or guarantee is made as to its accuracy or completeness., We do not accept liability for any loss or damage that may occur from the use of this information, as it is the user's responsibility to satisfy themselves for their particular use.

Tyco Plastics • An ISO 9001 Certified Company
8235 220th Street West • Lakeville, MN 55044 • Phone 888-639-7392 • Fax 952-469-6710

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tyco / Plastics & Adhesives / Tyco Plastics

STARTEX® Stock Products

LIGHT MIL				
Size	Mil	Approx. Wgt/Roll	Rolls / Pallet	Color
8'4"x200'	1.5	12	56	Clear
8'4"x200'	2	16.0	56	Clear

HEAVY MIL				
Size	Mil	Approx. Wgt/Roll	Rolls / Pallet	Color
20'x 100'	8	76.8	12	Clear
20'x 100'	10	96.0	12	Clear/ Black

SPECIALTY FILM – FLAME RETARDANT			
Size	Mil	Approx. Wgt/Roll	Rolls/ Pallet
20' x 100' Flame	4	38.3	25
12' x 100' Flame	6	34.5	36
20' x 100' Flame	6	57.4	25

PALLET COVERS – MIL				
Size	Mil	Bags	Rolls / Pallet	Color
54"X44"X96"	2	50	25	Clear
54"x44"x96"	2	50	10	Clear

CONSTRUCTION FILM – 4 MIL				
Size	Mil	Approx. Wgt/Roll	Rolls/ Pallet	Color
6' x 100'	4	11.5	56	Clear
8' x 100'	4	15.3	56	Clear/ Black
8'4"x 100'	4	16.0	56	Clear
10' x 100'	4	19.2	49	Clear/ Black
12' x 100'	4	23.2	49	Clear/ Black
16' x 100'	4	30.7	36	Clear/ Black
20' x 100'	4	38.3	25	Clear/ Black
24' x 100'	4	46.1	25	Clear

CONSTRUCTION FILM – 6 MIL				
Size	Mil	Approx. Wgt/Roll	Rolls/ Pallet	Color
8' x 100'	6	23	48	Clear/ Black
8'4"x100'	6	24.0	48	Clear
10' x 100'	6	28.8	36	Clear/ Black
12' x 100'	6	34.5	36	Clear/ Black
16' x 100'	6	46.1	25	Clear/ Black
20' x 100'	6	57.4	25	Clear/ Black
24' x 100'	6	69.1	20	Clear/ Black
28' x 100'	6	80.6	16	Clear
32' x 100'	6	92.1	16	Clear
40' x 100'	6	115.2	12	Clear/ Black

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CONFIDENTIAL PURSUANT TO PROTECTIVE ORDER

MATERIAL SAFETY DATA SHEET

POLY-AMERICA LP
2000 WEST MARSHALL DRIVE
GRAND PRAIRIE, TEXAS 75051

PRODUCT — NATURAL POLYETHYLENE SHEETING/FILM

IMPORTANT:
Poly-America LP urges each customer or recipient of this Material Safety Data Sheet to study it carefully to become aware of and understand the hazards associated with the product. The reader should consider consulting reference works or individuals who are experts in ventilation, toxicology or fire prevention, as necessary or appropriate to use and understand the data contained in this MSDS.

NOTICE:
This product is not FDA, CPSC or NSF compliant. It is unsuitable for use in applications such as direct or indirect food contact, toys, medical device or pharmaceutical applications or for potable water application.

SECTION I — IDENTIFICATION

Chemical Name:	Polyethylene Resins
CAS Number:	9002-88-4
Synonyms:	High-density Polyethylene (HDPE) Linear Low-density Polyethylene (LLDPE)

SECTION II — COMPOSITION

Polyethylene may be described by one of the following:

	CAS No.	AGGIH TLV	AGGIH STEL	OSHA PEL	OSHA STEL	WL%	Carcinogenic Listing *
Polyethylene, homopolymer 1-Octene	9002-88-4	N/L	N/L	N/L	N/L	98-100	N/L
Polymer with ethene 1-Butene	26221-73-8	N/L	N/L	N/L	N/L	98-100	N/L
Polymer with ethene	25087-34-7	N/L	N/L	N/L	N/L	98-100	N/L

* 1= OSHA 2= IARC 3= NTP 4= Others N/L= Not listed

SECTION III — PHYSICAL PROPERTIES

Emergency Overview **This material is NOT HAZARDOUS by OSHA Hazard Communication**

Boiling Point:	Not applicable
Vapor Pressure:	Not applicable
Solubility in Water:	Nil
Density:	.900 - .960 gm/cc
Form:	Thin solid film or sheet
Odor:	None
Volatiles:	Nil

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

Flash Point:	600 – 650°F
Flammable Limits:	Not applicable
Fire Fighting:	Use water to extinguish the fire and cool surfaces. Other types of extinguishers may also be used. Use NIOSH approved self-contained breathing apparatus when fighting fires in enclosed areas.
Decomposition Products:	CO2; H2, and under lean oxygen conditions, CO

SECTION V — REACTIVITY

Stability:	Stable
Conditions to Avoid:	Temperatures over 300°C can cause degradation.
Reactive Polymerization:	Does not occur
Incompatibility:	None

SECTION VI — HEALTH

Eye:	Solid or dust may cause irritation or corneal injury due to mechanical action.
Skin Contact:	Negligible hazard
Inhalation:	Negligible hazard at ambient temperature.
Ingestion:	Minimal toxicity
Exposure Limits:	No limit established for polyethylene
First Aid:	If ingested, no known health effect. Skin contact with molten plastic should be treated with cold water before plastic is removed, then wrap in clean gauze and seek medical attention.

SECTION VII — EMPLOYEE PROTECTION

This product as it is shipped to customers is non-hazardous. The user needs should determine PPE.

SECTION VIII — HANDLING AND STORAGE

This product is normally shipped in corrugated paper boxes. Store and stack as recommended by the manufacturer. The boxes and plastic will burn in the presence of open flame. Do not weld or use open flame where product is stored without proper fire fighting prevention procedures.

SECTION IX — ENVIRONMENTAL PROTECTION

Polyethylene sheeting or film is considered non-hazardous. Recycle old or unused plastic when possible. Otherwise, dispose in landfills or incinerators in accordance with local, state, and federal regulations.

SECTION X — TRANSPORT INFORMATION

Non-regulated

SECTION XI — ADDITONAL INFORMATION

Regulatory Requirements:

DOT: Not Applicable

HMIS:

Health:	0
Reactivity:	0
Flammability:	0

PREPARED BY:	Safety / Environmental Coordinator
PREPERATION DATE:	September 1, 1997
REVISED:	January 14, 2003

EMERGENCY PHONE NUMBERS:

Monday – Friday	1-800-527-3322 ext. 7215
Weekends & Nights	1-800-527-3322 ext. 7241

The opinions expressed are those of qualified experts within Poly-America LP. We believe that the information contained is current as of the date of this Material Safety Data Sheet. Since the use of this information and these opinions and the conditions of use of the product are not within the control of Poly-America LP, it is the user's obligation to determine the conditions of safe use of this product.

Item# 57145

NASHUA 300 2" SILVER DUCT TAPE
(24) ROLLS PER CASE

Qty	Your price is
1+ cs	$ 143.892 per cs

Total Availability: In Stock

Quantity 1 cs

ADD ITEM TO CART

ADD ITEM TO MY PRODUCT GROUPS



Product Information

General purpose contractor duct tape. Ideal for seaming and hanging polyethylene sheeting. Resists twisting and curling. High adhesion and holding power for both rough and smooth surfaces. Use for bundling, patching, and mending.

- 10 mil thickness
- High adhesion and holding power
- Resists curling
- Made with Protech™ High Performance Tape Technology
- Made in the USA

Technical Specifications

Thickness	10 mils
Tensile Strength	23 lbs./in.
Adhesion to steel	46 oz./in.
Standard length	55m

BERRY PLASTICS CORPORATION AND SUBSIDIARIES
TAPES AND COATINGS DIVISION

MATERIAL SAFETY DATA SHEET

300, 308, 345, 357, 396, 398 and 2280

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATIONS AND OF THE COMPANY UNDERTAKING

Product Name	300, 308, 345, 357, 396, 398 and 2280
Product Description	Rubber Based Pressure Sensitive Adhesive
Manufacturer/Supplier	Berry Plastics Corporation, Tapes and Coatings Division
Address	25 Forge Parkway
	Franklin, MA 02038
Phone Number	(800) 248-7659 (Monday – Friday 8:00 am to 5:00 pm)
Chemtrec Number	(800) 424-9300
Revision Date:	
MSDS Date:	March 9, 2011

Safety Data Sheet according to EC directive 2001/58/EC and OSHA's Hazcom Standard (29 CFR 1910.1200)

2. HAZARDS IDENTIFICATION

EU Main Hazards
Not classified as hazardous.

Routes of Entry
Skin contact

Carcinogenic Status
See section 11.

Target Organs
Skin

Health Effects - Eyes
Contact may cause irritation due to mechanical abrasion.

Health Effects - Skin
Prolonged, repeated contact with adhesive may cause skin irritation.

Health Effects - Ingestion
Not an expected route of entry during normal handling and use.

Health Effects - Inhalation
Not expected to cause irritation during normal handling and use.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component Name	CAS#/Codes	Concentration	R Phrases	Classification
Polymers and Rubbers	N.A.	<20%	None	None
Hydrocarbon resin	N.A.	<20%	None	None
Inorganic Compound(s)	N.A.	<25%	None	None
Quartz	14808-60-7 238-878-4	0.1-<1%	None	None
Titanium Dioxide	13463-67-7 236-675-5	0.1 - <1%	None	None

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4. FIRST AID MEASURES

Eyes
Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention if soreness or redness persists.

Skin
Wash skin thoroughly with soap and water. Obtain medical attention if blistering occurs or redness persists.

Ingestion
Obtain medical attention immediately.

Inhalation
Remove person to fresh air. Seek medical attention if symptoms persist.

Advice to Physicians
Treat symptomatically.

5. FIRE- FIGHTING MEASURES

Extinguishing Media
Water spray, carbon dioxide and dry chemical.

Unusual Fire and Explosion Hazards
Can release hazardous vapors during a fire.

Protective Equipment for Fire-Fighting
Wear full protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

No specific measures necessary. Prevent the material from entering drains or watercourses.

7. HANDLING AND STORAGE

Keep away from heat and sources of ignition. Exposure to high heat or flame can release irritating and toxic fumes. Storage area should be: - cool - dry - well ventilated - away from incompatible materials

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Standards
Exposure limits are listed below, if they exist.
Polymers and Rubbers
None established
Inorganic Compound(s)
None established
Hydrocarbon Resin
None established
Titanium Dioxide
ACGIH TLV: 10 mg/m^3 TWA
OSHA PEL: 15 mg/m^3 TWA (Total dust)
Quartz
ACGIH TLV for Quartz (silica-crystalline) is 0.025 mg/m^3 measured as respirable fraction of the aerosol
Engineering Control Measures
No specific measures necessary. Good general room ventilation is expected to be adequate to control airborne levels.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection
Respiratory protection not normally required.

Hand Protection
Not required under normal conditions of use. However, care should be taken to avoid contact with the adhesive.

Eye Protection
Safety glasses

Body Protection
Normal work wear.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Rubber based pressure sensitive adhesive coated on one side of polymer/cloth backing
Color	Black or silver backing with grey adhesive
Odor	Slight
pH	Not applicable
Specific Gravity	No data available
Boiling Range/Point (°C/F)	Not applicable
Melting Point (°C/F)	Not applicable
Flash Point (PMCC) (°C/F)	Not known
Explosion Limits (%)	No data available
Vapor Pressure	Not applicable
Density	No data.
Solubility in Water	Not known
Vapor Density (Air = 1)	Not applicable

10. STABILITY AND REACTIVITY

Stability
Stable under normal conditions.

Conditions to Avoid
Heat - High temperatures

Materials to Avoid
Strong oxidizers – strong acids

Hazardous Polymerization
Will not occur.

Hazardous Decomposition Products
Oxides of carbon – olefinic and paraffinic compounds – organic acids – ketones - aldehydes - alcohols

11. TOXICOLOGICAL INFORMATION

Acute Toxicity
No relevant studies identified.

Specific Target Organ Systemic Toxicity (single and repeat)
No relevant studies identified.

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11. TOXICOLOGICAL INFORMATION

Serious Eye damage/Eye Irritation
May cause irritation due to mechanical abrasion.
Skin Corrosion/Irritation
May cause slight irritation on prolonged, repeated contact.
Respiratory or Skin Sensitization
No relevant studies identified.
Carcinogenicity
Titanium Dioxide: IARC Overall Evaluation is 2B (Possibly carcinogenic to humans) IARC conclusions are based on evidence showing that high concentrations of pigment-grade (powdered) and ultrafine titanium dioxide dust caused respiratory tract cancer in rats exposed by inhalation and intratracheal instillation. Human studies conducted so far do not suggest an association between occupational exposure to titanium dioxide and an increased risk for cancer. Since this product is an adhesive, the titanium dioxide is no longer in a dust form.
For "inhalable" crystalline silica (quartz): IARC Overall Evaluation is 1 (carcinogenic to humans), the quartz in this formulation is in an adhesive matrix and is not expected to be "inhalable."
Germ Cell Mutagenicity
No relevant studies identified.
Toxicity to Reproduction
No relevant studies identified.

12. ECOLOGICAL INFORMATION

Mobility
No relevant studies identified.
Persistence/Degradability
No relevant studies identified.
Bio-accumulation
No relevant studies identified.
Ecotoxicity
No relevant studies identified.

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with all applicable local and national regulations.

14. TRANSPORT INFORMATION

DOT CFR 172.101 Data	Not Regulated
UN Proper Shipping Name	Not Regulated
UN Class	None.
UN Number	None
UN Packaging Group	None.
Classification for AIR Transportation (IATA)	Consult current IATA Regulations prior to shipping by air.

15. REGULATORY INFORMATION

EU Label Information
Classification and labelling have been performed according to EU directives 67/548/EEC and 99/45/EC including amendments(2001/60/EC and 2006/8/EC)

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15. REGULATORY INFORMATION

EC Annex I Classification
According to EC Commission Directive 67/548/EEC this product is not classified.

R phrases
None.

S phrases
None.

US REGULATIONS (Federal, State) and INTERNATIONAL CHEMICAL REGISTRATION LAWS

TSCA Listing
This product contains ingredients that are listed on or exempt from listing on the EPA Toxic Substance Control Act Chemical Inventory.

EINECS Listing
All ingredients in this product have not been verified for inclusion on the European Inventory of Existing Commercial Chemical Substances (EINECS) or specifically exempted.

DSL (Canadian) Listing
All ingredients in this product have not been verified for inclusion on the Domestic Substance List (DSL).

California Proposition 65
This product contains the following materials which the State of California has found to cause cancer, birth defects or other reproductive harm: Naphthalene (91-20-3) <0.005%

SARA Title III Sect. 311/312 Categorization
Immediate (acute) Delayed (chronic)

SARA Title III Sect. 313
This product contains the following chemicals that are listed in Section 313 at or above de minimis concentrations: None

16. OTHER INFORMATION

NFPA Ratings
NFPA Code for Flammability - 0
NFPA Code for Health - 1
NFPA Code for Reactivity - 0
NFPA Code for Special Hazards – 0

HMIS Ratings
HMIS Code for Flammability - 0
HMIS Code for Health - 1
HMIS Code for Reactivity - 0
HMIS Code for Personal Protection - See Section 8

Abbreviations
N/A: Denotes no applicable information found or available
CAS#: Chemical Abstracts Service Number
ACGIH: American Conference of Governmental Industrial Hygienists
OSHA: Occupational Safety and Health Administration
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
STEL: Short Term Exposure Limit
NTP: National Toxicology Program
IARC: International Agency for Research on Cancer
LC50: Lethal Concentration 50%
LD50: Lethal Dose 50%
BOD: Biological Oxygen Demand
KoC: Soil Organic Carbon Partition Coefficient

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CONFIDENTIAL SUBMITTED UNDER
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16. OTHER INFORMATION

For further information email: msdstechnical@berryplastics.com

Prepared By: EnviroNet LLC.

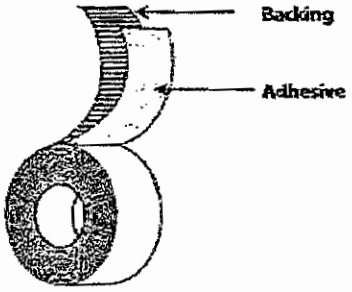
The information and recommendations presented in this MSDS are based on sources believed to be accurate. Berry Plastics Corporation, Tapes and Coatings Division assumes no liability for the accuracy or completeness of this information. It is the user's responsibility to determine the suitability of the material for their particular purposes. In particular, we make NO WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, with respect to such information, and we assume no liability resulting from its use. Users should ensure that any use or disposal of the material is in accordance with applicable Federal, State, and local laws and regulations.

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Nashua® TAPE PRODUCTS

300

Multi-Purpose Duct Tape



Backing:	PE Coated Cloth
Adhesive:	Rubber
Liner:	N/A
Colors:	Silver, Black
Specifications:	Tested in accordance with UL 723
Standard Sizes:	48mm x 55m, 72mm x 55m

Applications

- General repair
- General purpose construction uses
- Bundling, patching, and mending
- Seaming & hanging polyethylene sheeting
- Emergency tape for automotive applications

Features

- PE-Coated Cloth Backing
- Natural rubber based adhesive
- Low VOC Content

Benefits

- Conforms well to irregular surfaces
- Resists twisting & curling
- High adhesion & holding power for both rough and smooth surfaces
- Can contribute toward satisfying EQ Credit 4.1 (Low Emitting Materials) under LEED*

Physical Properties

	Standard UOM	Metric UOM	Test Method
Total Thickness	10 mils	225.4 mic	ASTM D-1000
Adhesion to Steel	46 oz/in	5.03 N/cm	PSTC-101
Tensile Strength	23 lb/in	40.28 N/cm	ASTM D-1000
Operating Temperature	40-200°F	4-93°C	
VOC Content	<1 g/L		

Recommended Storage Conditions: 40-60% Humidity, 60°F-80°F
Standard Shelf Life (at 25C): 36 months from date of manufacture.

The information presented herein was prepared at BERRY PLASTICS CORPORATION, 25 Forge Parkway Franklin, MA 02038 by qualified technical personnel. To Berry Plastics' knowledge it is true and accurate. However, the information and recommendations are furnished for these products with the understanding that the purchaser or user, as the case may be, will independently determine that the product is suitable for the intended use, and that such use complies with all applicable federal, state and local laws and regulations. The data are typical values submitted only for the user's information and consideration, and do not constitute a warranty of any kind (including but not limited to a warranty of merchantability or of fitness for a particular purpose), or a representation for which BERRY PLASTICS assumes any legal responsibility.

BERRY PLASTICS CORPORATION
LEADERSHIP BY DESIGN

25 Forge Pkwy Franklin, MA 02038
1-800-343-7875 Fax 1-800-328-4822
www.berryplastics.com

Nijverheidsstraat 10
2260 Oevel (Westerlo) Belgium
32-014-722500 Fax 32-014-722570

7/19/2011

Item# 57114

PROTEIN BODY SHAMPOO, (12) 16 OUNCE TUBES PER CASE

Qty	Your price is
1+ cs	$ 53.700 per cs

Total Availability: In Stock

Quantity 1 cs

ADD ITEM TO CART

ADD ITEM TO MY PRODUCT GROUPS

Product Information

For the complete fresh and clean after-bath feeling. Untouched body shampoo with each squeeze. The liquid hygienic way of cleaning in a self-dispensing tube contains skin conditioners: protein for body and healthy hair, deodorant power to fight odors caused by bacterium and rich emollients that leave natural oils on the skin and hair. Simply twist top of cap until arrows line up and squeeze to dispense

001818

Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

HMIS®

HEALTH	0	REACTIVITY	0
FLAMMABILITY	0	PERSONAL PROTECTION	None

Identity (As Used on Label and List)
26101, 26135, 26155, 26116 Top To Bottom

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

SECTION I

Manufacturer's Name ITW Dymon	**Emergency Telephone Number** 1-800-535-5053
Address (Number, Street, City, State, and ZIP Code) 805 EAST OLD 56 HIGHWAY	**Telephone Number for Information** 1-913-397-9889
OLATHE, KANSAS 66061	**Date Prepared** June 3, 2005
	Signature of Preparer (Optional) Regulatory Dept.

SECTION II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity, Common Name(s))	CAS No.	OSHA PEL	ACGIH-TLV	Other Limits Recommended	% (Opt.)
In accordance with 29 CFR 1910.1200, this product does not contain sufficient concentrations of any substances defined as hazardous by this standard					

None of the compounds in this product are listed or present in concentrations requiring reporting under SARA Title III Sec. 313 Refer to CFR 372.

TSCA: All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.

Any substance listed as hazardous by the States of California, Florida, Illinois, Michigan, New Jersey, Ohio, Pennsylvania or Texas is described above if known present in regulated concentrations.

SECTION III Physical/Chemical Characteristics

Boiling Point	212° F	**Specific Gravity (H_2O = 1)** @70° F	1.01
Vapor Pressure (mm Hg @ 70° F)	No Data	**Melting Point**	No Data
Vapor Density (AIR= 1)	No Data	**Evaporation Rate (Butyl Acetate = 1)**	No Data
Solubility in Water	Complete	**pH**	4.5 - 6.0

Appearance and Odor -
Pearlescent green lotion with a floral scent.

SECTION IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
None to boiling point. (PMCC)	No Data	No Data	No Data

Extinguishing Media -
Not usually necessary as this product does not readily support combustion. Use an extinguishing agent appropriate for the fire's fuel source (i.e. - carbon dioxide, foam, dry chemical).

Special Fire Fighting Procedures -
Keep containers cool and vapors down with waterspray. Prevent runoff from entering sewers and public waterways. Wear SCBA in chemical fires.

Unusual Fire and Explosion Hazards -
None known.

*Se entrego Wallet Card

Homeca Recycling Center Co, Inc.

HGS Pictograms and PPE

Hoja de Asistencia Entrenamientos Personal

(Training Employee (s) Attendance)

Fecha/Date: 17 marzo 2013	Hora/Time: 8:00am-12:00md
Entrenador (a)/Trainer: ~~Tamara Eduarte~~	Facilidad/Facility: Ponce Playa
Tópico Discutido/Topic: Hazcom | Hazmat | PPE | Uso Celular	

Empleados Presentes / (Employee (s) Trained):

	Nombre (Name):	Firma (Sinature):	
1.	Josue Rentas		(1)
2.	Roberto Cruz		(2)
3.	Julio Cesar Melendez		(3)
4.	Antonio Gonzalez		(4)
5.	Estali Orengo Baez		(5)
6.	Ruben A Roldan		(6)
7.	Edson Figueroa		(7)
8.	Amanda Torres		(8)
9.	Edgar Romero		(9)
10.	Gerardo de Jesus		(10)
11.	Jose E Gonzalez		(11)
12.	Jonathan Correa Cruz		(12)
13.	Kevin J Mc Kay		(13)
14.	Angel Javier R.		(14)
15.	Carlos A Cosme		(15)
16.	Christian Rivera		(16)
17.	Jorge Nadal Velazquez		(17)
18.	Alexis Delgado		(18)
19.	Efrain Cabal		(19)
20.	Jose Quinones		(20)

Comentarios específicos del entrenamiento (Training Specifics Comments):

Angel L Miranda		(21)
Efrain Colon de J		(22)
Alberto Vera		(23)
Manuel Ortiz	N/A	(24)
Norman Jonnie Jones	Norman Jonnie Jones	(25)
Raul Hernandez		(26)

(27) Manuel A. Lopez

Form SWPPP2

Homeca Recycling Center Co, Inc

Hoja de Asistencia Entrenamientos Personal

(Training Employee (s) Attendance)

Fecha/Date: 16 de noviembre de 2013	Hora/Time: 7:00am
Entrenador (a)/Trainer: Tamara Echevarria	Facilidad/Facility: Ponce Playa

Tópico Discutido/Topic: Introducción OSHA / Inspecciones, Citaciones, Penalidades OSHA / Procedimiento de Cotejo Cumplimiento Seguridad Proyectos / Políticas Empresa (001 @ 005) y Protocolo Violencia Domestica / Nueva Protocolo Discrimen por Orientación Sexual / Cambios HAZCOM – Formato GHS / Prevención de Caídas / Equipo Protección Personal / HAZMAT /

Empleados Presentes / (Employee (s) Trained):

Nombre (Name):	Firma (Sinature):
1. Norma Collazo Ramos	
2. Edrick J. Cequiss	
3. Emmanuel Santos Julia	
4. Emilio Bonet Echevarria	
5. Luis R Cartagena	
6. Eraldo Collazo	
7. Harris Morales	
8. Cairma I. Sánchez López	
9. Christopher Lugo	
10. Melvin Feliciano	
11. Geraldo de Jesus	
12. Tamara Torres	
13.	
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16.	
17.	

Comentarios especificos del entrenamiento (Training Specifics Comments):

Se les entrego copia de la ley 16 de Salud y Seguridad, Hoja de Cotejo de Seguridad, Ejemplo de Análisis de Riesgo por Tareas, Hoja Informativa sobre el Arnés, Tarjeta GHS y Pavo Card.

Otros Temas, Según Tiempo Permita: Se discutió uso de celular y manejo de fotos en redes sociales.

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Homeca Recycling Center Co, Inc

Hoja de Asistencia Entrenamientos Personal

(Training Employee (s) Attendance)

Fecha/Date: 22 de noviembre de 2013	Hora/Time: 7:00am
Entrenador (a)/Trainer: Tamara Echevarria	Facilidad/Facility: Ponce Playa

Tópico Discutido/Topic: Introducción OSHA / Políticas Empresa (001 @ 005) y Protocolo Violencia Domestica / Nueva Protocolo Discrimen por Orientación Sexual / Cambios HAZCOM – Formato GHS / Prevención de Caídas / Equipo Protección Personal / HAZMAT /

Empleados Presentes / (Employee (s) Trained):

Nombre (Name):	Firma (Sinature):
1. Osvaldo Feliciano Ruz	
2. Angel I Silva Garcia	
3. Juan D. Rosario Cruz	
4. Ashley José Hernandez Torres	
5. Armando Torres	
6. Khelvin J. Rosario	
7. Jose L. Perez	
8. Domingo de Jesús	
9. Eliseo Caraballo	
10.	
11.	
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Comentarios específicos del entrenamiento (Training Specifics Comments):

Se les entrego Hoja Informativa sobre el Arnés, Tarjeta GHS y Pavo Card.

Otros Temas, Según Tiempo Permita: Se discutió uso de celular y manejo de fotos en redes sociales.

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Homeca Recycling Center Co, Inc

Hoja de Asistencia Entrenamientos Personal

(Training Employee (s) Attendance)

Fecha/Date: 23 de noviembre de 2013	Hora/Time: 7:00am
Entrenador (a)/Trainer: Tamara Echevarria	Facilidad/Facility: Ponce Playa
Tópico Discutido/Topic: Introducción OSHA / Políticas Empresa (001 @ 005) y Protocolo Violencia Domestica / Nueva Protocolo Discrimen por Orientación Sexual / Cambios HAZCOM – Formato GHS / Prevención de Caídas / Equipo Protección Personal / HAZMAT /	

Empleados Presentes / (Employee (s) Trained):

Nombre (Name):	Firma (Sinature):
1. Edgardo Galarza Velazquez	Edgardo Galarza Velazquez
2. Jorge L Torres Matos	Jorge L Torres Matos
3. Eusebio Francheschini Román	Eusebio Francheschini Román
4.	
5.	
6.	
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Comentarios especificos del entrenamiento (Training Specifics Comments):

Se les entrego Hoja Informativa sobre el Arnés, Tarjeta GHS y Pavo Card.

Otros Temas, Según Tiempo Permita: Se discutió el uso del celular y manejo de fotos en redes sociales

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Homeca Recycling Center Co, Inc

Hoja de Asistencia Entrenamientos Personal

(Training Employee (s) Attendance)

Fecha/Date: 23 de noviembre de 2013	Hora/Time: 1:00pm
Entrenador (a)/Trainer: Tamara Echevarria	Facilidad/Facility: Ponce Playa
Tópico Discutido/Topic: Introduccion a OSHA / Politicas Empresa 001@005	

Empleados Presentes / (Employee (s) Trained):

Nombre (Name):	Firma (Sinature):
Christian Melendez Vargas	
Jose De Jesus Cruz	
Héctor L. Avilés	Hector L. Avilés

Comentarios especificos del entrenamiento (Training Specifics Comments): Se discutió el uso del celular y manejo de fotos en redes sociales. Protocolo Violencia Domestica / Nuevo Protocolo Discrimen por Orientación Sexual / Cambios HAZCOM-Formato GHS / Prevencion Caidas Equipo Proteccion Personal / HAZMAT / Procedimiento de Emergencia. Se entregó tarjeta Pictogramas / PaxCard / Sticker Capacete y hoja informativa uso Arnes.

Homeca Recycling Center Co, Inc

Hoja de Asistencia Entrenamientos Personal

(Training Employee (s) Attendance)

Fecha/Date: 25 de noviembre de 2013	Hora/Time: 7:00am
Entrenador (a)/Trainer: Tamara Echevarria	Facilidad/Facility: Proyecto Shell Yabucoa
Tópico Discutido/Topic: Introducción OSHA / Políticas Empresa (001 @ 005) y Protocolo Violencia Domestica / Nueva Protocolo Discrimen por Orientación Sexual / Cambios HAZCOM – Formato GHS / Prevención de Caídas / Equipo Protección Personal / HAZMAT /	

Empleados Presentes / (Employee (s) Trained):

Nombre (Name):	Firma (Signature):
1. Benjamin Cintron Pagan	
2. José M. Rodriguez Cora	
3. Milagros Figueroa	Milagros Figueroa
4. Felix R. Valentin Cora	
5. José E Santiago Delgado	
6. Emmanuel Ramos Maldonado	Emmanuel Ramos Maldonado
7. Hector Montañez	
8. Eric X. Tirado	
9. Hector B. Montañez	
10. Luis M. Ortiz Rivera	
11. Eliezer Caraballo	Eliezer Caraballo
12. Javier Pabon morales	Javier Pabon morales
13.	
14.	
15.	
16.	
17.	

Comentarios específicos del entrenamiento (Training Specifics Comments):

Se les entrego Hoja Informativa sobre el Amés, Tarjeta GHS y Pavo Card.

Otros Temas, Según Tiempo Permita: Se discutió uso celular y manejo de fotos en redes sociales

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Homeca Recycling Center Co, Inc

Hoja de Asistencia Entrenamientos Personal

(Training Employee (s) Attendance)

Fecha/Date: 30 de noviembre de 2013	Hora/Time: 12:30 pm
Entrenador (a)/Trainer: Tamara Echevarría	Facilidad/Facility: Ponce Playa
Tópico Discutido/Topic: Introduccion a OSha / Politicas Empresa con Focos	

Empleados Presentes / (Employee (s) Trained):

Nombre (Name):	Firma (Sinature):
Robert Cadea Colón	Robert Cadea Colón
Wilfredo Vega Lembay	Wilfredo V
Luis D. Francisco	Luis D. Francisco
Judie Acevedo	Judie Acevedo
Christian Torres Torres	Christian Torres Torres
Carlos J. Pizarro Santos	Carlos J. Pizarro Santos

Comentarios específicos del entrenamiento (Training Specifics Comments): Se discutió el uso del celular y manejo de fotos en redes sociales. ~~Alergias~~ Protocolo Violencia Domestica / Nuevo Protocolo Discrimen por Orientación Sexual / cambios HAZCOM- Formato SHS / Prevencion Caidas / Equipo Proteccion Personal / HAZMAT / Procedimiento de Emergencia. Se entregó tarjeta Pictograma / Paso Card / Sticker Capacete y Hoja Informativa uso ARMES.

Form SWPPP2

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Homeca Recycling Center Co, Inc

Hoja de Asistencia Entrenamientos Personal

(Training Employee (s) Attendance)

Fecha/Date: 30 de noviembre de 2013	Hora/Time: 8:00 am
Entrenador (a)/Trainer: Tamara Echevarria	Facilidad/Facility: Ponce Playa
Tópico Discutido/Topic: Introducción Ofra / Politicas Empresa 001@005	

Empleados Presentes / (Employee (s) Trained):

Nombre (Name):	Firma (Sinature):
Jonathan A. Barrera Feliciano	
Steven Toro López	
Alexis Cintrón	
Alexis Rivera	
Ferdinand Alvarado	
Jose A. Torres Diaz	
Efrain Colon	

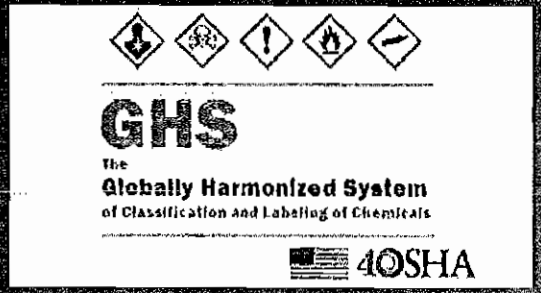
Comentarios especificos del entrenamiento (Training Specifics Comments): Se discutio el uso del celular y manejo de fotos en redes sociales. Protocolo Violencia Domestica / Nuevo Protocolo Discrimen por Orientacion Sexual / Cambios Hazcom - formato GHS / Prevencion Caidos / Equipo Protectoral Personal / Hazmat / Procedimiento de Emergencia. Se entrego targeta Pictograma / Paro Cord / Stickers Capacete y Hoja Informacion USO ARPES.

Form SWPPP2

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HAZCOM (GHS)

POR:TAMARA ECHEVARRIA



HOMECA RECYCLING INC
Environmental, Coating and Demolition Services

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HAZCOM (Comunicacion Riesgo)

- La Administración para la Salud y Seguridad Ocupacional (OSHA) por sus siglas en ingles), a través de la Reglamentación Federal, 29 CFR Parte 1910.1200-Norma de Comunicación de Riesgos o "Derecho a Saber" ahora "Derecho a Entender", tiene el propósito de reducir la incidencia de lesiones y enfermedades ocupacionales asociadas con la exposición a sustancias químicas peligrosas.

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RX 6
0018831

Ustedes deben conocer:

- La norma requiere el desarrollo e implantación de un Programa Escrito de Comunicación e Riesgo para proteger a los empelados de los riesgos físicos y a la salud, asociados a estas sustancias químicas peligrosas presentes en el lugar de trabajo y que la información que se obtiene se le comunique a todos los empelados cubiertos por la norma.
- **Ustedes deben conocer:**
  - donde conseguir la información, (Almacén, Oficina, Supervisor)
  - productos a los cuales están expuestos,
  - los riesgos asociados a estos y como identificarlos.
  - Tiempo de adiestramiento (Reclutamiento, Anual o al incorporar sustancias químicas)
- Nuevo formato debe ser adiestrado en o antes del 12/1/13.

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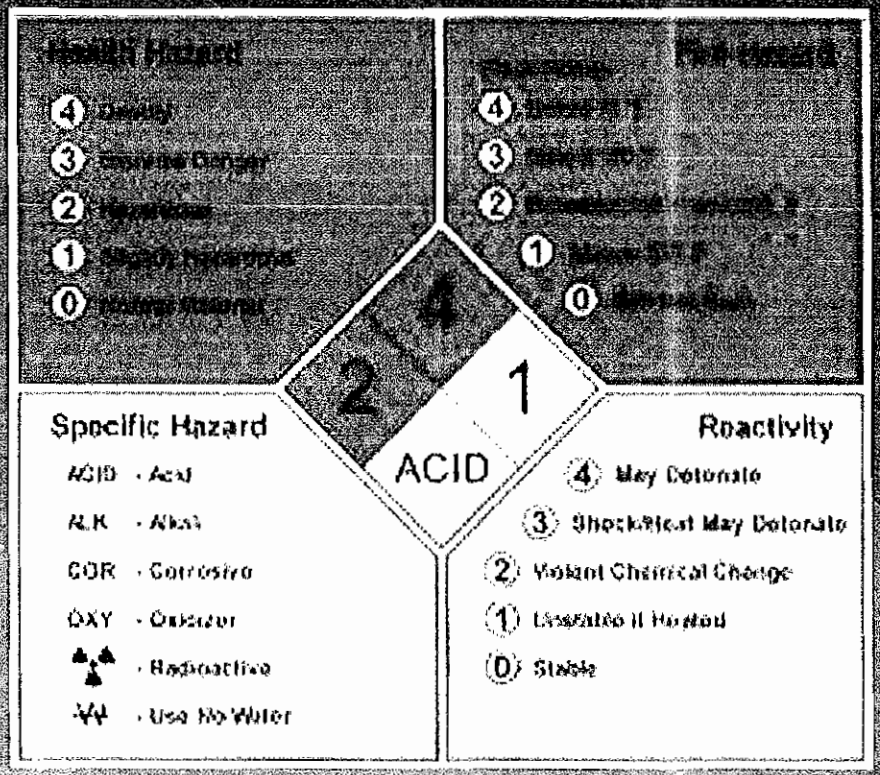
Donde conseguir información Riesgo:

- El riego es determinado por el manufacturero y lo informa por medio de:
  - Etiquetas
  - Simbolos
  - SDS (antes MSDS)- Aplicabilidad



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Escala de Riesgos

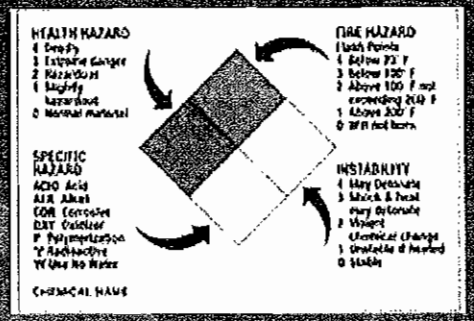


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00434

HMIS/NFPA

Chemical Name	Isopropyl Alcohol
CAS#	67-63-0
HEALTH	1
FLAMMABILITY	3
REACTIVITY	0
SPECIFIC	
PERSONAL PROTECTION	

OKLAHOMA STATE HAZARD COMMUNICATION



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PICTOGRAMAS

A partir del 1.° de junio de 2015, la norma de comunicación de peligros (HCS, por sus siglas en inglés) exigirá pictogramas en las etiquetas para advertir a los usuarios de los peligros químicos a los que pueden estar expuestos. Cada pictograma representa un peligro definido y consiste en un símbolo sobre un fondo blanco enmarcado con un borde rojo. La clasificación del peligro químico determina el pictograma que muestra la etiqueta.

Health Hazard	Flame	Exclamation Mark
• Carcinogen • Mutagenicity • Reproductive Toxicity • Respiratory Sensitizer • Target Organ Toxicity • Aspiration Toxicity	• Flammables • Pyrophorics • Self-Heating • Emits Flammable Gas • Self-Reactives • Organic Peroxides	• Irritant (skin and eye) • Skin Sensitizer • Acute Toxicity (harmful) • Narcotic Effects • Respiratory Tract Irritant • Hazardous to Ozone Layer (Non Mandatory)
Gas Cylinder	**Corrosion**	**Exploding Bomb**
• Gases under Pressure	• Skin Corrosion/ burns • Eye Damage • Corrosive to Metals	• Explosives • Self-Reactives • Organic Peroxides
Flame over Circle	**Environment (Non Mandatory)**	**Skull and Crossbones**
• Oxidizers	• Aquatic Toxicity	• Acute Toxicity (fatal or toxic)

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Rotulación

- Importancia de la identificación de productos
- Norma de 8 horas y Debida rotulación (Uso inmediato)
- Rotulación rota no está permitida
- Si no sabe lo que es: NO LO USE!
- Tipos de Etiqueta

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Etiqueta

SAMPLE LABEL

PRODUCT IDENTIFIER

CODE _____

Product Name _____

SUPPLIER IDENTIFICATION

Company Name _____

Street Address _____

City, State _____

Postal Code, Country _____

Emergency Phone Number _____

PRECAUTIONARY STATEMENTS

Keep container tightly closed. Store in cool, well ventilated place that is locked. Keep away from heat/sparks/open flame. No smoking.
Only use non-sparking tools.
Use explosion-proof electrical equipment.
Take precautionary measure against static discharge.
Ground and bond container and receiving equipment.
Do not breathe vapors.
Wear Protective gloves.
Do not eat, drink or smoke when using this product.
Wash hands thoroughly after handling.
Dispose of in accordance with local, regional, nation, International regulations as specified.

In Case of Fire: use dry chemical (BC) or Carbon dioxide (CO_2) fire extinguisher to extinguish.

First Aid
If exposed call Poison Center.
If on skin (on hair): Take off immediately and contaminated clothing. Rinse skin with water.

HAZARD PICTOGRAMS



SIGNAL WORD

Danger

HAZARD STATEMENT

Highly flammable liquid and vapor. May cause liver and kidney damage.

SUPPLEMENTAL INFORMATION

Directions for use

_____

_____

_____

Fill weight: _____

Lot number: _____

Gross weight: _____

Fill Date: _____

Expiration Date: _____

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SDS (Antes MSDS)

- Pedir SDS con cada producto nuevo.
- El nuevo formato establece 16 secciones
  - Seccion 1: Identificacion
  - Seccion 2: Identificacion de Riesgo
  - Seccion 3: Composicion o Ingredientes
  - Seccion 4: Primeros Auxilios
  - Seccion 5: Medidas Combatir Fuego
  - Seccion 6: Medidas contra derrames
  - Seccion 7: Manejo y Almacenamiento

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SDS (Antes MSDS)

- Seccion 8: Controles de Exposicion / PPE
- Seccion 9: Propiedades Quimicas o Fisicas
- Seccion 10: Estabilidad y Reactividad
- Seccion 11: Informacion Toxicologica
- Seccion 12: Informaicon Ecologica
- Seccion 13: Consideraciones de Disposicion
- Seccion 14: Informaicon de Transportacion
- Seccion 15: Informacion Regulatoria
- Seccion 16: Otra Informacion

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Otros Aspectos

- Transportación adecuada de los productos
- Forma de detectar presencia de químico
  - Producto toxico q no huele o irritante
  - Ej. Mina canario
- Discutir listado de químicos y riesgos
- Medidas de Protección

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Dudas/Preguntas

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OSHA® QUICK CARD™

Hazard Communication Standard Pictogram

As of June 1, 2015, the Hazard Communication Standard (HCS) will require pictograms on labels to alert users of the chemical hazards to which they may be exposed. Each pictogram consists of a symbol on a white background framed within a red border and represents a distinct hazard(s). The pictogram on the label is determined by the chemical hazard classification.

HCS Pictograms and Hazards

Health Hazard  • Carcinogen • Mutagenicity • Reproductive Toxicity • Respiratory Sensitizer • Target Organ Toxicity • Aspiration Toxicity	**Flame**  • Flammables • Pyrophorics • Self-Heating • Emits Flammable Gas • Self-Reactives • Organic Peroxides	**Exclamation Mark**  • Irritant (skin and eye) • Skin Sensitizer • Acute Toxicity (harmful) • Narcotic Effects • Respiratory Tract Irritant • Hazardous to Ozone Layer (Non-Mandatory)
Gas Cylinder  • Gases Under Pressure	**Corrosion**  • Skin Corrosion/ Burns • Eye Damage • Corrosive to Metals	**Exploding Bomb**  • Explosives • Self-Reactives • Organic Peroxides
Flame Over Circle  • Oxidizers	**Environment** (Non-Mandatory)  • Aquatic Toxicity	**Skull and Crossbones**  • Acute Toxicity (fatal or toxic)

For more information:

OSHA® Occupational Safety and Health Administration

U.S. Department of Labor

www.osha.gov (800) 321-OSHA (6742)

OSHA 3491-02 2012

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OSHA® DATOS RÁPIDOS

Pictograma para la norma sobre la comunicación de peligros

A partir del 1.° de junio de 2015, la norma de comunicación de peligros (HCS, por sus siglas en inglés) exigirá pictogramas en las etiquetas para advertir a los usuarios de los peligros químicos a los que puedan estar expuestos. Cada pictograma representa un peligro definido y consiste en un símbolo sobre un fondo blanco enmarcado con un borde rojo. La clasificación del peligro químico determina el pictograma que muestra la etiqueta.

Pictogramas y peligros según la HCS

Peligro para la salud  • Carcinógeno • Mutagenicidad • Toxicidad para la reproducción • Sensibilización respiratoria • Toxicidad especifica de órganos diana • Peligro por aspiración	**Llama**  • Inflamables • Pirofóricos • Calentamiento espontáneo • Desprenden gases inflamables • Reaccionan espontáneamente (autorreactivas) • Peróxidos orgánicos	**Signo de exclamación**  • Irritante (piel y ojos) • Sensibilizador cutáneo • Toxicidad aguda (dañino) • Efecto narcótico • Irritante de vías respiratorias • Peligros para la capa de ozono (no obligatorio)
Botella de gas  • Gases a presión	**Corrosión**  • Corrosión o quemaduras cutáneas • Lesion ocular • Corrosivo para los metales	**Bomba explotando**  • Explosivos • Reaccionan espontáneamente (autorreactivas) • Peróxidos orgánicos
Llama sobre círculo  • Comburentes	**Medio ambiente** (No obligatorio)  • Toxicidad acuática	**Calavera y tibias cruzadas**  • Toxicidad aguda (mortal o tóxica)

Para más información:

OSHA® Administración de Seguridad y Salud Ocupacional

Departamento de Trabajo de los EE. UU.

www.osha.gov (800) 321-OSHA (6742)

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OSHA® QUICK CARD™

Hazard Communication Standard Labels

OSHA has updated the requirements for labeling of hazardous chemicals under its Hazard Communication Standard (HCS). As of June 1, 2015, all labels will be required to have pictograms, a signal word, hazard and precautionary statements, the product identifier, and supplier identification. A sample revised HCS label, identifying the required label elements, is shown on the right. Supplemental information can also be provided on the label as needed.

For more information:

OSHA® Occupational Safety and Health Administration

(800) 321-OSHA (6742)
www.osha.gov

SAMPLE LABEL

CODE _____
Product Name _____
} **Product Identifier**

Company Name _____
Street Address _____
City _____ State ____
Postal Code _____ Country ____
Emergency Phone Number _____
} **Supplier Identification**

Hazard Pictograms



Signal Word
Danger

Highly flammable liquid and vapor.
May cause liver and kidney damage.
} **Hazard Statements**

Keep container tightly closed. Store in a cool, well-ventilated place that is locked.
Keep away from heat/sparks/open flame. No smoking.
Only use non-sparking tools.
Use explosion-proof electrical equipment.
Take precautionary measures against static discharge.
Ground and bond container and receiving equipment.
Do not breathe vapors.
Wear protective gloves.
Do not eat, drink or smoke when using this product.
Wash hands thoroughly after handling.
Dispose of in accordance with local, regional, national, international regulations as specified.

In Case of Fire: use dry chemical (BC) or Carbon Dioxide (CO_2) fire extinguisher to extinguish.

First Aid
If exposed call Poison Center.
If on skin (or hair): Take off immediately any contaminated clothing. Rinse skin with water.

} **Precautionary Statements**

Supplemental Information

Directions for Use

_____
_____
_____

Fill weight: _____ Lot Number: _____
Gross weight: _____ Fill Date: _____
Expiration Date: _____

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OSHA® DATOS RÁPIDOS

Etiquetas para la norma sobre la comunicación de peligros

De acuerdo con su norma de comunicación de peligros (HCS, por sus siglas en inglés), la OSHA ha actualizado los requisitos para las etiquetas de los productos químicos peligrosos. A partir del 1.º de junio de 2015, se exigirá que todas las etiquetas incluyan pictogramas, una palabra de advertencia, indicaciones de peligro, consejos de prudencia, identificación del producto y la identificación del proveedor. A la derecha se presenta la muestra de una etiqueta modificada de acuerdo con la HCS, que indica los elementos obligatorios. La etiqueta puede contener también información suplementaria según sea necesario.

Para más información:

OSHA® Administración de Seguridad y Salud Ocupacional

(800) 321-OSHA (6742)
www.osha.gov

ETIQUETA DE MUESTRA

CÓDIGO _____
Nombre del producto _____
} Identificación del producto

Nombre de la empresa _____
Dirección _____
Ciudad _____ Estado _____
Código postal _____ País _____
Número de teléfono de emergencia _____
} Identificación del proveedor

Pictogramas de peligro



Palabra de advertencia
Peligro

Líquido y vapores muy inflamables.
Puede provocar daños al hígado y a los riñones.
} Indicaciones de peligro

Mantener el contenedor herméticamente cerrado.
Guardar en un lugar fresco, bien ventilado y cerrado bajo llave.
Mantener alejado de fuentes de calor, chispas o llama abierta. No fumar.
Usar sólo con herramientas que no generen chispas.
Usar equipo eléctrico a prueba de explosiones.
Tomar medidas de precaución contra descargas estáticas.
Fijar y conectar a tierra el equipo contenedor y receptor.
No respirar los vapores.
Usar guantes protectores.
Abstenerse de comer, beber o fumar cuando se use este producto.
Lavarse muy bien las manos después de manejar este producto.
Desechar el producto según las especificaciones y los reglamentos locales, regionales, nacionales e internacionales.

En caso de incendio: usar un extintor de polvo químico (tipo BC) o de bióxido de carbono (CO_2).

Primeros auxilios
Si hay exposición a este producto, llamar al Centro de Control de Intoxicaciones.
En caso de contacto con la piel o el cabello: quitarse de inmediato toda la ropa contaminada. Lavarse la piel con agua.

} Consejos de prudencia

Información suplementaria

Instrucciones de uso
_____
_____
_____

Peso lleno: _____ Número de lote: _____
Peso bruto: _____ Fecha de llenado: _____
Fecha de caducidad: _____

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OSHA® BRIEF

Hazard Communication Standard: Safety Data Sheets

The Hazard Communication Standard (HCS) (29 CFR 1910.1200(g)), revised in 2012, requires that the chemical manufacturer, distributor, or importer provide Safety Data Sheets (SDSs) (formerly MSDSs or Material Safety Data Sheets) for each hazardous chemical to downstream users to communicate information on these hazards. The information contained in the SDS is largely the same as the MSDS, except now the SDSs are required to be presented in a consistent user-friendly, 16-section format. This brief provides guidance to help workers who handle hazardous chemicals to become familiar with the format and understand the contents of the SDSs.

The SDS includes information such as the properties of each chemical; the physical, health, and environmental health hazards; protective measures; and safety precautions for handling, storing, and transporting the chemical. The information contained in the SDS must be in English (although it may be in other languages as well). In addition, OSHA requires that SDS preparers provide specific minimum information as detailed in Appendix D of 29 CFR 1910.1200. The SDS preparers may also include additional information in various section(s).

Sections 1 through 8 contain general information about the chemical, identification, hazards, composition, safe handling practices, and emergency control measures (e.g., fire fighting). This information should be helpful to those that need to get the information quickly. Sections 9 through 11 and 16 contain other technical and scientific information, such as physical and chemical properties, stability and reactivity information, toxicological information, exposure control information, and other information including the date of preparation or last revision. The SDS must also state that no applicable information was found when the preparer does not find relevant information for any required element.

The SDS must also contain Sections 12 through 15, to be consistent with the UN Globally Harmonized System of Classification and Labeling of Chemicals (GHS), but OSHA will not enforce the content of these sections because they concern matters handled by other agencies.

A description of all 16 sections of the SDS, along with their contents, is presented below:

Section 1: Identification

This section identifies the chemical on the SDS as well as the recommended uses. It also provides the essential contact information of the supplier. The required information consists of:

- Product identifier used on the label and any other common names or synonyms by which the substance is known.
- Name, address, phone number of the manufacturer, importer, or other responsible party, and emergency phone number.
- Recommended use of the chemical (e.g., a brief description of what it actually does, such as flame retardant) and any restrictions on use (including recommendations given by the supplier).

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Section 2: Hazard(s) Identification

This section identifies the hazards of the chemical presented on the SDS and the appropriate warning information associated with those hazards. The required information consists of:

- The hazard classification of the chemical (e.g., flammable liquid, category[1]).
- Signal word.
- Hazard statement(s).
- Pictograms (the pictograms or hazard symbols may be presented as graphical reproductions of the symbols in black and white or be a description of the name of the symbol (e.g., skull and crossbones, flame).
- Precautionary statement(s).
- Description of any hazards not otherwise classified.
- For a mixture that contains an ingredient(s) with unknown toxicity, a statement describing how much (percentage) of the mixture consists of ingredient(s) with unknown acute toxicity. Please note that this is a total percentage of the mixture and not tied to the individual ingredient(s).

Section 3: Composition/Information on Ingredients

This section identifies the ingredient(s) contained in the product indicated on the SDS, including impurities and stabilizing additives. This section includes information on substances, mixtures, and all chemicals where a trade secret is claimed. The required information consists of:

Substances

- Chemical name.
- Common name and synonyms.
- Chemical Abstracts Service (CAS) number and other unique identifiers.
- Impurities and stabilizing additives, which are themselves classified and which contribute to the classification of the chemical.

Mixtures

- Same information required for substances.
- The chemical name and concentration (i.e., exact percentage) of all ingredients which are classified as health hazards and are:
  - Present above their cut-off/concentration limits or
  - Present a health risk below the cut-off/concentration limits.
- The concentration (exact percentages) of each ingredient must be specified except concentration ranges may be used in the following situations:
  - A trade secret claim is made,
  - There is batch-to-batch variation, or
  - The SDS is used for a group of substantially similar mixtures.

Chemicals where a trade secret is claimed

- A statement that the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret is required.

[1] Chemical, as defined in the HCS, is any substance, or mixture of substances.

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Section 4: First-Aid Measures

This section describes the initial care that should be given by untrained responders to an individual who has been exposed to the chemical. The required information consists of:

- Necessary first-aid instructions by relevant routes of exposure (inhalation, skin and eye contact, and ingestion).
- Description of the most important symptoms or effects, and any symptoms that are acute or delayed.
- Recommendations for immediate medical care and special treatment needed, when necessary.

Section 5: Fire-Fighting Measures

This section provides recommendations for fighting a fire caused by the chemical. The required information consists of:

- Recommendations of suitable extinguishing equipment, and information about extinguishing equipment that is not appropriate for a particular situation.
- Advice on specific hazards that develop from the chemical during the fire, such as any hazardous combustion products created when the chemical burns.
- Recommendations on special protective equipment or precautions for firefighters.

Section 6: Accidental Release Measures

This section provides recommendations on the appropriate response to spills, leaks, or releases, including containment and cleanup practices to prevent or minimize exposure to people, properties, or the environment. It may also include recommendations distinguishing between responses for large and small spills where the spill volume has a significant impact on the hazard. The required information may consist of recommendations for:

- Use of personal precautions (such as removal of ignition sources or providing sufficient ventilation) and protective equipment to prevent the contamination of skin, eyes, and clothing.
- Emergency procedures, including instructions for evacuations, consulting experts when needed, and appropriate protective clothing.
- Methods and materials used for containment (e.g., covering the drains and capping procedures).
- Cleanup procedures (e.g., appropriate techniques for neutralization, decontamination, cleaning or vacuuming; adsorbent materials; and/or equipment required for containment/clean up).

Section 7: Handling and Storage

This section provides guidance on the safe handling practices and conditions for safe storage of chemicals. The required information consists of:

- Precautions for safe handling, including recommendations for handling incompatible chemicals, minimizing the release of the chemical into the environment, and providing advice on general hygiene practices (e.g., eating, drinking, and smoking in work areas is prohibited).
- Recommendations on the conditions for safe storage, including any incompatibilities. Provide advice on specific storage requirements (e.g., ventilation requirements).

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Section 8: Exposure Controls/Personal Protection

This section indicates the exposure limits, engineering controls, and personal protective measures that can be used to minimize worker exposure. The required information consists of:

- OSHA Permissible Exposure Limits (PELs), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values (TLVs), and any other exposure limit used or recommended by the chemical manufacturer, importer, or employer preparing the safety data sheet, where available.
- Appropriate engineering controls (e.g., use local exhaust ventilation, or use only in an enclosed system).
- Recommendations for personal protective measures to prevent illness or injury from exposure to chemicals, such as personal protective equipment (PPE) (e.g., appropriate types of eye, face, skin or respiratory protection needed based on hazards and potential exposure).
- Any special requirements for PPE, protective clothing or respirators (e.g., type of glove material, such as PVC or nitrile rubber gloves; and breakthrough time of the glove material).

Section 9: Physical and Chemical Properties

This section identifies physical and chemical properties associated with the substance or mixture. The minimum required information consists of:

- Appearance (physical state, color, etc.);
- Odor;
- Odor threshold;
- pH;
- Melting point/freezing point;
- Initial boiling point and boiling range;
- Flash point;
- Evaporation rate;
- Flammability (solid, gas);
- Upper/lower flammability or explosive limits;
- Vapor pressure;
- Vapor density;
- Relative density;
- Solubility(ies);
- Partition coefficient: n-octanol/water;
- Auto-ignition temperature;
- Decomposition temperature; and
- Viscosity.

The SDS may not contain every item on the above list because information may not be relevant or is not available. When this occurs, a notation to that effect must be made for that chemical property. Manufacturers may also add other relevant properties, such as the dust deflagration index (Kst) for combustible dust, used to evaluate a dust's explosive potential.

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Section 10: Stability and Reactivity

This section describes the reactivity hazards of the chemical and the chemical stability information. This section is broken into three parts: reactivity, chemical stability, and other. The required information consists of:

Reactivity

- Description of the specific test data for the chemical(s). This data can be for a class or family of the chemical if such data adequately represent the anticipated hazard of the chemical(s), where available.

Chemical stability

- Indication of whether the chemical is stable or unstable under normal ambient temperature and conditions while in storage and being handled.
- Description of any stabilizers that may be needed to maintain chemical stability.
- Indication of any safety issues that may arise should the product change in physical appearance.

Other

- Indication of the possibility of hazardous reactions, including a statement whether the chemical will react or polymerize, which could release excess pressure or heat, or create other hazardous conditions. Also, a description of the conditions under which hazardous reactions may occur.
- List of all conditions that should be avoided (e.g., static discharge, shock, vibrations, or environmental conditions that may lead to hazardous conditions).
- List of all classes of incompatible materials (e.g., classes of chemicals or specific substances) with which the chemical could react to produce a hazardous situation.
- List of any known or anticipated hazardous decomposition products that could be produced because of use, storage, or heating. (Hazardous combustion products should also be included in Section 5 (Fire-Fighting Measures) of the SDS.)

Section 11: Toxicological Information

This section identifies toxicological and health effects information or indicates that such data are not available. The required information consists of:

- Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact). The SDS should indicate if the information is unknown.
- Description of the delayed, immediate, or chronic effects from short- and long-term exposure.
- The numerical measures of toxicity (e.g., acute toxicity estimates such as the LD50 (median lethal dose)) - the estimated amount [of a substance] expected to kill 50% of test animals in a single dose.
- Description of the symptoms. This description includes the symptoms associated with exposure to the chemical including symptoms from the lowest to the most severe exposure.
- Indication of whether the chemical is listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or has been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest editions) or found to be a potential carcinogen by OSHA.

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Section 12: Ecological Information (non-mandatory)

This section provides information to evaluate the environmental impact of the chemical(s) if it were released to the environment. The information may include:

- Data from toxicity tests performed on aquatic and/or terrestrial organisms, where available (e.g., acute or chronic aquatic toxicity data for fish, algae, crustaceans, and other plants; toxicity data on birds, bees, plants).
- Whether there is a potential for the chemical to persist and degrade in the environment either through biodegradation or other processes, such as oxidation or hydrolysis.
- Results of tests of bioaccumulation potential, making reference to the octanol-water partition coefficient (K_{ow}) and the bioconcentration factor (BCF), where available.
- The potential for a substance to move from the soil to the groundwater (indicate results from adsorption studies or leaching studies).
- Other adverse effects (e.g., environmental fate, ozone layer depletion potential, photochemical ozone creation potential, endocrine disrupting potential, and/or global warming potential).

Section 13: Disposal Considerations (non-mandatory)

This section provides guidance on proper disposal practices, recycling or reclamation of the chemical(s) or its container, and safe handling practices. To minimize exposure, this section should also refer the reader to Section 8 (Exposure Controls/Personal Protection) of the SDS. The information may include:

- Description of appropriate disposal containers to use.
- Recommendations of appropriate disposal methods to employ.
- Description of the physical and chemical properties that may affect disposal activities.
- Language discouraging sewage disposal.
- Any special precautions for landfills or incineration activities.

Section 14: Transport Information (non-mandatory)

This section provides guidance on classification information for shipping and transporting of hazardous chemical(s) by road, air, rail, or sea. The information may include:

- UN number (i.e., four-figure identification number of the substance)[2].
- UN proper shipping name[2].
- Transport hazard class(es)[2].
- Packing group number, if applicable, based on the degree of hazard[2].
- Environmental hazards (e.g., identify if it is a marine pollutant according to the International Maritime Dangerous Goods Code (IMDG Code)).
- Guidance on transport in bulk (according to Annex II of MARPOL 73/78[3] and the International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (International Bulk Chemical Code (IBC Code)).
- Any special precautions which an employee should be aware of or needs to comply with, in connection with transport or conveyance either within or outside their premises (indicate when information is not available).

[2] Found in the most recent edition of the United Nations Recommendations on the Transport of Dangerous Goods.

[3] MARPOL 73/78 means the International Convention for the Prevention of Pollution from Ships, 1973, as modified by the Protocol of 1978 relating thereto, as amended.

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Section 15: Regulatory Information (non-mandatory)

This section identifies the safety, health, and environmental regulations specific for the product that is not indicated anywhere else on the SDS. The information may include:

- Any national and/or regional regulatory information of the chemical or mixtures (including any OSHA, Department of Transportation, Environmental Protection Agency, or Consumer Product Safety Commission regulations).

Section 16: Other Information

This section indicates when the SDS was prepared or when the last known revision was made. The SDS may also state where the changes have been made to the previous version. You may wish to contact the supplier for an explanation of the changes. Other useful information also may be included here.

Employer Responsibilities

Employers must ensure that the SDSs are readily accessible to employees for all hazardous chemicals in their workplace. This may be done in many ways. For example, employers may keep the SDSs in a binder or on computers as long as the employees have immediate access to the information without leaving their work area when needed and a back-up is available for rapid access to the SDS in the case of a power outage or other emergency. Furthermore, employers may want to designate a person(s) responsible for obtaining and maintaining the SDSs. If the employer does not have an SDS, the employer or designated person(s) should contact the manufacturer to obtain one.

References

OSHA, 29 CFR 1910.1200(g) and Appendix D.

United Nations Globally Harmonized System of Classification and Labelling of Chemicals (GHS), third revised edition, United Nations, 2009.

These references and other information related to the revised Hazard Communication Standard can be found on OSHA's Hazard Communication Safety and Health Topics page, located at: http://www.osha.gov/dsg/hazcom/index.html.

Disclaimer: This brief provides a general overview of the safety data sheet requirements in the Hazard Communication Standard (see 29 CFR 1910.1200(g) and Appendix D of 29 CFR 1910.1200). It does not alter or determine compliance responsibilities in the standard or the Occupational Safety and Health Act of 1970. Since interpretations and enforcement policy may change over time, the reader should consult current OSHA interpretations and decisions by the Occupational Safety and Health Review Commission and the courts for additional guidance on OSHA compliance requirements. Please note that states with OSHA-approved state plans may have additional requirements for chemical safety data sheets, outside of those outlined above. For more information on those standards, please visit: http://www.osha.gov/dcsp/osp/statestandards.html.

This is one in a series of informational briefs highlighting OSHA programs, policies or standards. It does not impose any new compliance requirements. For a comprehensive list of compliance requirements of OSHA standards or regulations, refer to Title 29 of the Code of Federal Regulations. This information will be made available to sensory-impaired individuals upon request. The voice phone is (202) 693-1999; teletypewriter (TTY) number: (877) 889-5627.

For assistance, contact us. We can help. It's confidential.

OSHA® Occupational Safety and Health Administration

U.S. Department of Labor
www.osha.gov (800) 321-OSHA (6742)

DSG BR-3514 2/2012

OSHA® DATOS RÁPIDOS

Fichas de datos de seguridad para la comunicación de peligros

La norma de comunicación de peligros (HCS, por sus siglas en inglés) exige que los fabricantes, distribuidores o importadores de productos químicos proporcionen fichas de datos de seguridad (FDS) (conocidas anteriormente como hojas de información sobre la seguridad de los materiales o MSDS) para comunicar los peligros de los productos químicos peligrosos. A partir del 1.° de junio de 2015, la HCS exigirá que las nuevas FDS sigan un formato uniforme e incluyan los números de sección, los encabezados y la información pertinente bajo los encabezados siguientes:

Sección 1, Identificación del producto, incluye el identificador del producto; nombre, dirección y número de teléfono del fabricante o distribuidor; número de teléfono de emergencia; uso recomendado; y restricciones del uso.

Sección 2, Identificación del peligro o peligros, describe todos los peligros relacionados con el producto químico y los elementos obligatorios de la etiqueta.

Sección 3, Composición/información sobre los componentes, incluye los datos acerca de ingredientes químicos y las declaraciones de secretos de fabricación.

Sección 4, Primeros auxilios, describe los síntomas o efectos agudos inmediatos y retardados importantes; y el tratamiento necesario.

Sección 5, Medidas de lucha contra incendios, enumera los medios y los equipos protectores adecuados para la extinción de incendios, y los peligros especificos de los productos químicos debidos al fuego.

Sección 6, Medidas que deben tomarse en caso de vertido accidental, menciona los procedimientos de emergencia, equipos protectores y métodos correctos para aislamiento y limpieza.

(Continúa al reverso)

Para más información:

OSHA® **Administración de Seguridad y Salud Ocupacional**

Departamento de Trabajo de los EE. UU.

www.osha.gov (800) 321-OSHA (6742)

OSHA 3518-02 2012 Hazard Communication Safety Data Sheets - Spanish

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OSHA® DATOS RÁPIDOS

Fichas de datos de seguridad para la comunicación de peligros

Sección 7, Manipulación y almacenamiento, describe las precauciones para manipular y almacenar con seguridad los materiales, entre otras, las incompatibilidades.

Sección 8, Controles de exposición/protección personal, enumera los límites de exposición permisibles (PEL) de la OSHA, valores límite umbrales (TLV), controles de ingeniería apropiados, y equipos de protección personal (EPP).

Sección 9, Propiedades físicas y químicas, menciona las características del producto químico.

Sección 10, Estabilidad y reactividad, describe la estabilidad química y la posibilidad de reacciones peligrosas.

Sección 11, Información toxicológica, enumera las vías de exposición, los síntomas y efectos agudos y crónicos relacionados, y las medidas numéricas de la toxicidad.

Sección 12, Información ecotoxicológica*
Sección 13, Información relativa a la eliminación de los productos*
Sección 14, Información relativa al transporte*
Sección 15, Información sobre la reglamentación*

Sección 16, Otras informaciones, incluye la fecha de preparación o de la última modificación.

*Nota: debido a que otros organismos regulan esta información, la OSHA no exigirá el cumplimiento de las secciones 12 a 15 (norma 29 CFR 1910.1200(g)(2)).

Los empleadores deben comprobar que los empleados tengan acceso fácil a las FDS.
Consultar la descripción detallada del contenido de las FDS en el Apéndice D de la norma 29 CFR 1910.1200.

Para más información:

OSHA® **Administración de Seguridad y Salud Ocupacional**

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OSHA® BRIEF

Hazard Communication Standard: Labels and Pictograms

OSHA has adopted new hazardous chemical labeling requirements as a part of its recent revision of the Hazard Communication Standard, 29 CFR 1910.1200 (HCS), bringing it into alignment with the United Nations' Globally Harmonized System of Classification and Labelling of Chemicals (GHS). These changes will help ensure improved quality and consistency in the classification and labeling of all chemicals, and will also enhance worker comprehension. As a result, workers will have better information available on the safe handling and use of hazardous chemicals, thereby allowing them to avoid injuries and illnesses related to exposures to hazardous chemicals.

The revised HCS changes the existing Hazard Communication Standard (HCS/HazCom 1994[1]) from a performance-based standard to one that has more structured requirements for the labeling of chemicals. The revised standard requires that information about chemical hazards be conveyed on labels using quick visual notations to alert the user, providing immediate recognition of the hazards. Labels must also provide instructions on how to handle the chemical so that chemical users are informed about how to protect themselves.

The label provides information to the workers on the specific hazardous chemical. While labels provide important information for anyone who handles, uses, stores, and transports hazardous chemicals, they are limited by design in the amount of information they can provide. Safety Data Sheets (SDSs), which must accompany hazardous chemicals, are the more complete resource for details regarding hazardous chemicals. The revised standard also requires the use of a 16-section safety data sheet format, which provides detailed information regarding the chemical. There is a separate OSHA Brief on SDSs that provides information on the new SDS requirements.

All hazardous chemicals shipped after June 1, 2015, must be labeled with specified elements including pictograms, signal words and hazard and precautionary statements. However, manufacturers, importers, and distributors may start using the new labeling system in the revised HCS before the June 1, 2015 effective date if they so choose. Until the June 1, 2015 effective date, manufacturers, importers and distributors may maintain compliance with the requirements of HazCom 1994 or the revised standard. Distributors may continue to ship containers labeled by manufacturers or importers (but not by the distributor themselves) in compliance with the HazCom 1994 until December 1, 2015.

This document is designed to inform chemical receivers, chemical purchasers, and trainers about the label requirements. It explains the new labeling elements, identifies what goes on a label, and describes what pictograms are and how to use them.

Label Requirements

Labels, as defined in the HCS, are an appropriate group of written, printed or graphic informational elements concerning a hazardous chemical that are affixed to, printed on, or attached to the immediate container of a hazardous chemical, or to the outside packaging.

The HCS requires chemical manufacturers, importers, or distributors to ensure that each container of hazardous chemicals leaving the workplace is labeled, tagged or marked with the following information: product identifier; signal word; hazard statement(s); precautionary

[1] Prior to the 2012 update, the Hazard Communication Standard had last been amended in 1994. 'HazCom 1994' refers to the version of the Hazard Communication Standard in effect directly prior to the 2012 revision, printed in the 1995 through 2011 versions of the Code of Federal Regulations. It is also available on OSHA's webpage.

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statement(s); and pictogram(s); and name, address and telephone number of the chemical manufacturer, importer, or other responsible party.

Labels for a hazardous chemical must contain:

- Name, Address and Telephone Number
- Product Identifier
- Signal Word
- Hazard Statement(s)
- Precautionary Statement(s)
- Pictogram(s)

To develop labels under the revised HCS, manufacturers, importers and distributors must first identify and classify the chemical hazard(s). Appendices A, B, and C are all mandatory. The classification criteria for health hazards are in Appendix A and the criteria for physical hazards are presented in Appendix B of the revised Hazard Communication Standard. After classifying the hazardous chemicals, the manufacturer, importer or distributor then consults Appendix C to determine the appropriate pictograms, signal words, and hazard and precautionary statement(s), for the chemical label. Once this information has been identified and gathered, then a label may be created.

Label Elements
The HCS now requires the following elements on labels of hazardous chemicals:

- **Name, Address and Telephone Number** of the chemical manufacturer, importer or other responsible party.

- **Product Identifier** is how the hazardous chemical is identified. This can be (but is not limited to) the chemical name, code number or batch number. The manufacturer, importer or distributor can decide the appropriate product identifier. The same product identifier must be both on the label and in section 1 of the SDS.

- **Signal Words** are used to indicate the relative level of severity of the hazard and alert the reader to a potential hazard on the label. There are only two words used as signal words, "Danger" and "Warning." Within a specific hazard class, "Danger" is used for the more severe hazards and "Warning" is used for the less severe hazards. There will only be one signal word on the label no matter how many hazards a chemical may have. If one of the hazards warrants a "Danger" signal word and another warrants the signal word "Warning," then only "Danger" should appear on the label.

- **Hazard Statements** describe the nature of the hazard(s) of a chemical, including, where appropriate, the degree of hazard. For example: "Causes damage to kidneys through prolonged or repeated exposure when absorbed through the skin." All of the applicable hazard statements must appear on the label. Hazard statements may be combined where appropriate to reduce redundancies and improve readability. The hazard statements are specific to the hazard classification categories, and chemical users should always see the same statement for the same hazards no matter what the chemical is or who produces it.

- **Precautionary Statements** describe recommended measures that should be taken to minimize or prevent adverse effects resulting from exposure to the hazardous chemical or improper storage or handling. There are four types of precautionary statements: prevention (to minimize exposure); response (in case of accidental spillage or exposure emergency response, and first-aid); storage; and disposal. For example, a chemical presenting a specific target organ toxicity (repeated exposure) hazard would include the following on the label: "Do not breathe dust/fume/gas/mist/vapors/spray. Get medical advice/attention if you feel unwell. Dispose of contents/container in accordance with local/regional/national and international regulations."

  A forward slash (/) designates that the classifier can choose one of the precautionary statements. In the example

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above, the label could state, "Do not breathe vapors or spray. Get medical attention if you feel unwell. Dispose of contents in accordance with local/regional/national/international regulations." See Examples 1 and 2A of this document as an example.

In most cases, the precautionary statements are independent. However, OSHA does allow flexibility for applying precautionary statements to the label, such as combining statements, using an order of precedence or eliminating an inappropriate statement.

Precautionary statements may be combined on the label to save on space and improve readability. For example, "Keep away from heat, spark and open flames," "Store in a well-ventilated place," and "Keep cool" may be combined to read: "Keep away from heat, sparks and open flames and store in a cool, well-ventilated place." Where a chemical is classified for a number of hazards and the precautionary statements are similar, the most stringent statements must be included on the label. In this case, the chemical manufacturer, importer, or distributor may impose an order of precedence where phrases concerning response require rapid action to ensure the health and safety of the exposed person. In the self-reactive hazard category Types C, D, E or F, three of the four precautionary statements for prevention are:

- "Keep away from heat/sparks/open flame/hot surfaces. - No Smoking.";
- "Keep/Store away from clothing/.../ combustible materials";
- "Keep only in original container."

These three precautionary statements could be combined to read: "Keep in original container and away from heat, open flames, combustible materials and hot surfaces. - No Smoking."

Finally, a manufacturer or importer may eliminate a precautionary statement if it can demonstrate that the statement is inappropriate.

- **Supplementary Information.** The label producer may provide additional instructions or information that it deems helpful. It may also list any hazards not otherwise classified under this portion of the label. This section must also identify the percentage of ingredient(s) of unknown acute toxicity when it is present in a concentration of ≥1% (and the classification is not based on testing the mixture as a whole). If an employer decides to include additional information regarding the chemical that is above and beyond what the standard requires, it may list this information under what is considered "supplementary information." There is also no required format for how a workplace label must look and no particular format an employer has to use; however, it cannot contradict or detract from the required information.

  An example of an item that may be considered supplementary is the personal protective equipment (PPE) pictogram indicating what workers handling the chemical may need to wear to protect themselves. For example, the Hazardous Materials Identification System (HMIS) pictogram of a person wearing goggles may be listed. Other supplementary information may include directions of use, expiration date, or fill date, all of which may provide additional information specific to the process in which the chemical is used.

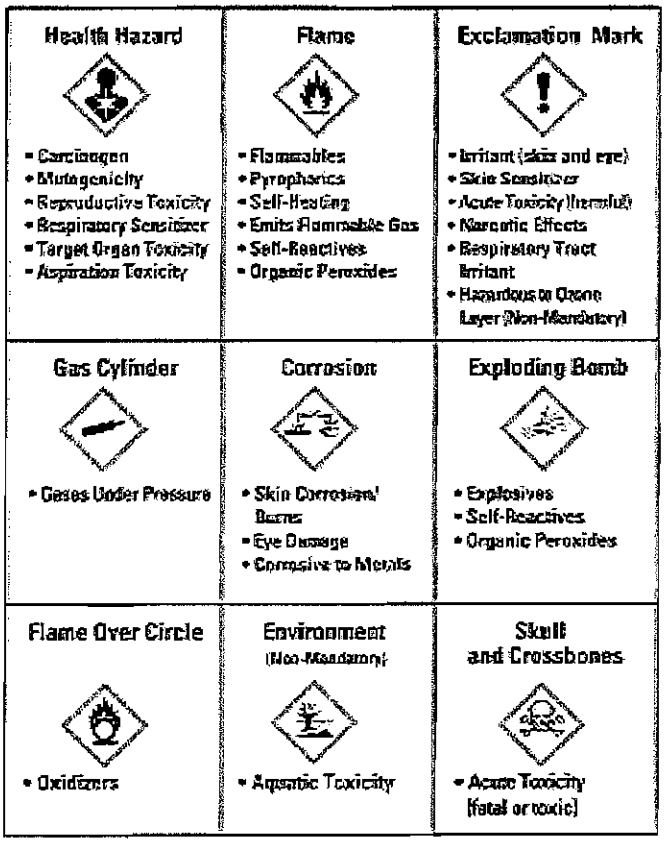
- Pictograms are graphic symbols used to communicate specific information about the hazards of a chemical. On hazardous chemicals being shipped or transported from a manufacturer, importer or distributor, the required pictograms consist of a red square frame set at a point with a black hazard symbol on a white background, sufficiently wide to be clearly visible. A square red frame set at a point without a hazard symbol is not a pictogram and is not permitted on the label.

  The pictograms OSHA has adopted improve worker safety and health, conform with the GHS, and are used worldwide.

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While the GHS uses a total of nine pictograms, OSHA will only enforce the use of eight. The environmental pictogram is not mandatory but may be used to provide additional information. Workers may see the ninth symbol on a label because label preparers may choose to add the environment pictogram as supplementary information. Figure 1 shows the symbol for each pictogram, the written name for each pictogram, and the hazards associated with each of the pictograms. Most of the symbols are already used for transportation and many chemical users may be familiar with them.

Figure 1: Pictograms and Hazards



It is important to note that the OSHA pictograms do not replace the diamond-shaped labels that the U.S. Department of Transportation (DOT) requires for the transport of chemicals, including chemical drums, chemical totes, tanks or other containers. Those labels must be on the external part of a shipped container and must meet the DOT requirements set forth in 49 CFR 172, Subpart E. If a label has a DOT transport pictogram, Appendix C.2.3.3 states that the corresponding HCS pictogram shall not appear. However, DOT does not view the HCS pictogram as a conflict and for some international trade both pictograms may need to be present on the label. Therefore, OSHA intends to revise C.2.3.3. In the meantime, the agency will allow both DOT and HCS pictograms for the same hazard on a label. While the DOT diamond label is required for all hazardous chemicals on the outside shipping containers, chemicals in smaller containers inside the larger shipped container do not require the DOT diamond but do require the OSHA pictograms. (See Example 2.)

Labels must be legible, in English, and prominently displayed. Other languages may be displayed in addition to English. Chemical manufacturers, importers, and distributors who become newly aware of any significant information regarding the hazards of a chemical must revise the label within six months.

Employer Responsibilities

Employers are responsible for maintaining the labels on the containers, including, but not limited to, tanks, totes, and drums. This means that labels must be maintained on chemicals in a manner which continues to be legible and the pertinent information (such as the hazards and directions for use) does not get defaced (i.e., fade, get washed off) or removed in any way.

The employer is not responsible for updating labels on shipped containers, even if the shipped containers are labeled under HazCom 1994. The employer must relabel items if the labels are removed or defaced. However, if the employer is aware of newly-identified hazards that are not disclosed on the label, the employer must ensure that the workers are aware of the hazards as discussed below under workplace labels.

Workplace Labels

OSHA has not changed the general requirements for workplace labeling. Employers have the option to create their own workplace labels. They can either provide all of the required information that is on the

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label from the chemical manufacturer or, the product identifier and words, pictures, symbols or a combination thereof, which in combination with other information immediately available to employees, provide specific information regarding the hazards of the chemicals.

If an employer has an in-plant or workplace system of labeling that meets the requirements of HazCom 1994, the employer may continue to use this system in the workplace as long as this system, in conjunction with other information immediately available to the employees, provides the employees with the information on all of the health and physical hazards of the hazardous chemical. This workplace labeling system may include signs, placards, process sheets, batch tickets, operating procedures, or other such written materials to identify hazardous chemicals. Any of these labeling methods or a combination thereof may be used instead of a label from the manufacturer, importer or distributer as long as the employees have immediate access to all of the information about the hazards of the chemical. Workplace labels must be in English. Other languages may be added to the label if applicable.

If the employer chooses to use the pictograms that appear in Appendix C on the workplace (or in-plant) labels, these pictograms may have a black border, rather than a red border.

Employers may use additional instructional symbols that are not included in OSHA's HCS pictograms on the workplace labels. An example of an instructional pictogram is a person with goggles, denoting that goggles must be worn while handling the given chemical. Including both types of pictograms on workplace labels is acceptable. The same is true if the employer wants to list environmental pictograms or PPE pictograms from the HMIS to identify protective measures for those handling the chemical.

Employers may continue to use rating systems such as National Fire Protection Association (NFPA) diamonds or HMIS requirements for workplace labels as long as they are consistent with the requirements of the Hazard Communication Standard and the employees have immediate access to the specific hazard information as discussed above. An employer using NFPA or HMIS labeling must, through training, ensure that its employees are fully aware of the hazards of the chemicals used.

If an employer transfers hazardous chemicals from a labeled container to a portable container that is only intended for immediate use by the employee who performs the transfer, no labels are required for the portable container.

Sample Labels

The following examples demonstrate how a manufacturer or importer may display the appropriate information on the label. As mentioned above, once the manufacturer determines the classification of the chemical (class and category of each hazard) using Appendices A and B, it would determine the required pictograms, signal words, hazard statements, and precautionary statements using Appendix C. The final step is to put the information on the label.

The examples below show what a sample label might look like under the revised HCS requirements. The examples break the labeling out into "steps" to show the order of information gathering and how label creation occurs. Step 1 is performing classification; step 2 is gathering full label information; and step 3 is creating the label.

These examples are for informational purposes only and are not meant to represent the only labels manufacturers, importers and distributors may create for these hazards.

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Example 1: This example demonstrates a simple label.

The Substance:
HS85
Batch Number: 85L6543

Step 1: Perform Classification
Class: Acute Oral Toxicity; Category 4

Step 2: Gather Labeling Information
Pictograms:



Signal Word:
WARNING

Hazard Statements:
Harmful if Swallowed

Precautionary Statements:
Prevention:
- Wash hands and face thoroughly after handling.
- Do not eat, drink or smoke when using this product.

Response:
- If swallowed: Call a doctor if you feel unwell.[2]
- Rinse mouth

Storage:
None specified

Disposal:
- Dispose of contents/container in accordance with local/regional/national/international regulations.[3]

Step 3: Create the Label
Putting together the above information on HS85, a label might list the following information:

Example 1: HS85 Label

HS85
Batch number: 85L6543



Warning
Harmful if swallowed

Wash hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. Dispose of contents/container in accordance with local, state and federal regulations.

First aid:
If swallowed: Call a doctor if you feel unwell. Rinse mouth.

GHS Example Company, 123 Global Circle, Anyville, NY 130XX Telephone (888) 888-8888

[2] The manufacturer of this chemical determined that calling a doctor was the most appropriate emergency medical advice; therefore, it is listed as part of the first-aid procedures.
[3] The downstream users must familiarize themselves with the proper disposal methods in accordance with local, regional, state and federal regulations. It is impractical to expect the label preparer to list all potential regulations that exist.

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Example 2: This example demonstrates a more complex label.

Example 2 is for a substance that is a severe physical and health hazard. For shipping packages of chemicals that will be transported in the United States (i.e., drums, totes, tanks, etc.), the U.S. DOT requires a DOT label(s) on the outside container(s) for hazardous chemicals. Two versions of this label are presented below to demonstrate the difference between an OSHA label with pictograms from the HCS and a DOT label required for transport of a shipping container.

The Substance:
OXI252 (disodiumflammy)
CAS number: 111-11-11xx

Step 1: Perform Classification
Class: Oxidizing Solid, Category 1
Class: Skin Corrosive, Category 1A

Step 2: Gather Labeling Information
Pictograms:



Signal Word:
DANGER

Hazard Statements:
- May cause fire or explosion; strong oxidizer
- Causes severe skin burns and eye damage

Precautionary Statements:
Prevention:
- Keep away from heat.
- Keep away from clothing and other combustible materials.
- Take any precaution to avoid mixing with combustibles.
- Wear protective neoprene gloves, safety goggles and face shield with chin guard.
- Wear fire/flame resistant clothing.
- Do not breathe dust or mists.
- Wash arms, hands and face thoroughly after handling.

Response:
- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
- IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes. Wash contaminated clothing before reuse.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- Immediately call poison center.[4]

Specific Treatment:
Treat with doctor-prescribed burn cream.[5]

In case of fire:
Use water spray. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

Storage:
Store locked up.

Disposal:
- Dispose of contents/container in accordance with local/regional/national/international regulations.[3]

Step 3: Create the Label
Putting together the above information on OXI252, a label might list the following information:

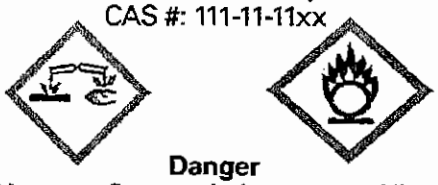
[4] In this example, the manufacturer determined that calling a poison control center is the most appropriate emergency medical advice.

[5] Not all SDSs will have direction for "specific treatment" on the label. This is only if the manufacturer specifically notes a certain treatment that needs to be used to treat a worker who has been exposed to this chemical.

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Example 2A: OXI252 Label inner package label with OSHA pictograms

OXI252
(disodiumflammy)
CAS #: 111-11-11xx



Danger
May cause fire or explosion; strong oxidizer
Causes severe skin burns and eye damage

Keep away from heat. Keep away from clothing and other combustible materials. Take any precaution to avoid mixing with combustibles. Wear protective neoprene gloves, safety goggles and face shield with chin guard. Wear fire/flame resistant clothing. Do not breathe dust or mists. Wash arms, hands and face thoroughly after handling. Store locked up. Dispose of contents and container in accordance with local, state and federal regulations.

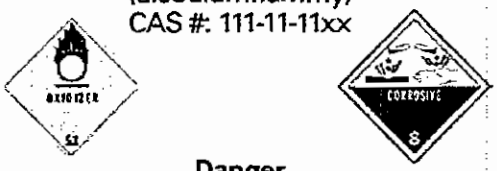
First aid:
IF ON SKIN (or hair) or clothing[6]: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes. Wash contaminated clothing before reuse.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
Immediately call poison center.
Specific Treatment: Treat with doctor-prescribed burn cream.

Fire:
In case of fire: Use water spray. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

Great Chemical Company, 55 Main Street, Anywhere, CT 064XX Telephone (888) 777-8888

Example 2B: OXI252 Label meeting DOT requirements for shipping[7]

OXI252
(disodiumflammy)
CAS #: 111-11-11xx



Danger
May cause fire or explosion; strong oxidizer
Causes severe skin burns and eye damage

Keep away from heat. Keep away from clothing and other combustible materials. Take any precaution to avoid mixing with combustibles. Wear protective neoprene gloves, safety goggles and face shield with chin guard. Wear fire/flame resistant clothing. Do not breathe dust or mists. Wash arms, hands and face thoroughly after handling. Store locked up. Dispose of contents and container in accordance with local, state and federal regulations.

First aid:
IF ON SKIN (or hair) or clothing: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes. Wash contaminated clothing before reuse.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a doctor.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
Immediately call poison center.
Specific Treatment: Treat with doctor-prescribed burn cream.

Fire:
In case of fire: Use water spray. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

Great Chemical Company, 55 Main Street, Anywhere, CT 064XX Telephone (888) 777-8888

[6] There are occasions where label preparers may combine statements on the label. In this case the similar statements were combined and the most stringent were listed. For example, the first-aid precautionary statements were combined for exposure to skin, hair and clothing.

[7] DOT Labels must comply with the size requirements presented in 49 CFR 172.

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For more detailed information about labels and Safety Data Sheets (SDSs) under the revised Hazard Communication Standard, please refer to refer to 29 CFR 1910.1200 - paragraphs (f) and (g), and Appendix C.

The revised Hazard Communication Standard and additional guidance materials are available on OSHA's Hazard Communication page, located at: www.osha.gov/dsg/hazcom/index.html.

Disclaimer: This OSHA Brief provides a general overview of the label requirements in the Hazard Communication Standard (see 29 CFR 1910.1200(f) and Appendix C of 29 CFR 1910.1200). It does not alter or determine compliance responsibilities in the standard or the Occupational Safety and Health Act of 1970. Since interpretations and enforcement policy may change over time, the reader should consult current OSHA interpretations and decisions by the Occupational Safety and Health Review Commission and the courts for additional guidance on OSHA compliance requirements.

This is one in a series of informational briefs highlighting OSHA programs, policies or standards. It does not impose any new compliance requirements. For a comprehensive list of compliance requirements of OSHA standards or regulations, refer to Title 29 of the Code of Federal Regulations. This information will be made available to sensory-impaired individuals upon request. The voice phone is (202) 693-1999; teletypewriter (TTY) number: (877) 889-5627.

For assistance, contact us. We can help. It's confidential.

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DSG BR-3636 2/2013

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OSHA® FactSheet

December 1st, 2013 Training Requirements for the Revised Hazard Communication Standard

OSHA revised its Hazard Communication Standard (HCS) to align with the United Nations' Globally Harmonized System of Classification and Labeling of Chemicals (GHS) and published it in the Federal Register in March 2012 (77 FR 17574). Two significant changes contained in the revised standard require the use of new labeling elements and a standardized format for Safety Data Sheets (SDSs), formerly known as, Material Safety Data Sheets (MSDSs). The new label elements and SDS requirements will improve worker understanding of the hazards associated with the chemicals in their workplace. To help companies comply with the revised standard, OSHA is phasing in the specific requirements over several years (December 1, 2013 to June 1, 2016).

The first compliance date of the revised HCS is December 1, 2013. By that time employers must have trained their workers on the new label elements and the SDS format. This training is needed early in the transition process since workers are already beginning to see the new labels and SDSs on the chemicals in their workplace. To ensure employees have the information they need to better protect themselves from chemical hazards in the workplace during the transition period, it is critical that employees understand the new label and SDS formats.

The list below contains the minimum required topics for the training that must be completed by December 1, 2013.

➢ Training on label elements must include information on:

- Type of information the employee would expect to see on the new labels, including the
  - ✓ **Product identifier:** how the hazardous chemical is identified. This can be (but is not limited to) the chemical name, code number or batch number. The manufacturer, importer or distributor can decide the appropriate product identifier. The same product identifier must be both on the label and in Section 1 of the SDS (Identification).
  - ✓ **Signal word:** used to indicate the relative level of severity of hazard and alert the reader to a potential hazard on the label. There are only two signal words, "Danger" and "Warning." Within a specific hazard class, "Danger" is used for the more severe hazards and "Warning" is used for the less severe hazards. There will only be one signal word on the label no matter how many hazards a chemical may have. If one of the hazards warrants a "Danger" signal word and another warrants the signal word "Warning," then only "Danger" should appear on the label.
  - ✓ **Pictogram:** OSHA's required pictograms must be in the shape of a square set at a point and include a black hazard symbol on a white background with a red frame sufficiently wide enough to be clearly visible. A square red frame set at a point without a hazard symbol is not a pictogram and is not permitted on the label. OSHA has designated eight pictograms under this standard for application to a hazard category.
  - ✓ **Hazard statement(s):** describe the nature of the hazard(s) of a chemical, including, where appropriate, the degree of hazard. For example: "Causes damage to kidneys through prolonged or repeated exposure when absorbed through the skin." All of the applicable hazard statements must appear on the label. Hazard statements may be combined where appropriate to reduce redundancies and improve readability. The hazard statements are specific to the hazard

classification categories, and chemical users should always see the same statement for the same hazards, no matter what the chemical is or who produces it.

✓ **Precautionary statement(s):** means a phrase that describes recommended measures that should be taken to minimize or prevent adverse effects resulting from exposure to a hazardous chemical or improper storage or handling.

✓ **Name, address and phone number of the chemical manufacturer, distributor, or importer**

- How an employee might use the labels in the workplace. For example,
  - ✓ Explain how information on the label can be used to ensure proper storage of hazardous chemicals.
  - ✓ Explain how the information on the label might be used to quickly locate information on first aid when needed by employees or emergency personnel.
- General understanding of how the elements work together on a label. For example,
  - ✓ Explain that where a chemical has multiple hazards, different pictograms are used to identify the various hazards. The employee should expect to see the appropriate pictogram for the corresponding hazard class.
  - ✓ Explain that when there are similar precautionary statements, the one providing the most protective information will be included on the label.

➢ Training on the format of the SDS must include information on:

- Standardized 16-section format, including the type of information found in the various sections
  - ✓ For example, the employee should be instructed that with the new format, Section 8 (Exposure Controls/Personal Protection) will always contain information about exposure limits, engineering controls and ways to protect yourself, including personal protective equipment.
- How the information on the label is related to the SDS
  - ✓ For example, explain that the precautionary statements would be the same on the label and on the SDS.

As referenced in Dr. Michaels' OSHA Training Standards Policy Statement (April 28, 2010) – with all training, OSHA requires employers to present information in a manner and language that their employees can understand. If employers customarily need to communicate work instructions or other workplace information to employees in a language other than English, they will also need to provide safety and health training to employees in the same manner. Similarly, if the employee's vocabulary is limited, the training must account for that limitation. By the same token, if employees are not literate, telling them to read training materials will not satisfy the employer's training obligation.

OSHA's Hazard Communication website (http://www.osha.gov/dsg/hazcom/index.html) has the following QuickCards and OSHA Briefs to assist employers with the required training.

- Label QuickCard (English/Spanish)
- Pictogram QuickCard (English/Spanish)
- Safety Data Sheet QuickCard (English) (Spanish)
- Safety Data Sheet OSHA Brief
- Label/Pictogram OSHA Brief (to come)

This is one in a series of informational fact sheets highlighting OSHA programs, policies or standards. It does not impose any new compliance requirements. For a comprehensive list of compliance requirements of OSHA standards or regulations, refer to Title 29 of the Code of Federal Regulations. This information will be made available to sensory-impaired individuals upon request. The voice phone is (202) 693-1999; teletypewriter (TTY) number: (877) 889-5627.

For assistance, contact us. We can help. It's confidential.

OSHA® Occupational Safety and Health Administration

U.S. Department of Labor
www.osha.gov (800) 321-OSHA (6742)

DSG FS-3642 02/2013

Adiestramientos

CONFIDENTIAL & PRIVILEGE

ARA

UNIVERSITY

Certificate of Completion

ARAU Training in OSHA's Revised Hazard Communication Standard

This is to certify that

Homeca Recycling Center, Inc.

Has successfully completed the

ARA course on hazard communication requirements under the Globally Harmonized System

Virginia Whelan
Director, ARA University

www.ARAUniversity.org

November 30, 2013
Date

CONFIDENTIAL
Page 1 of 1
RX 9

Homeca Recycling Center Co, Inc

Hoja de Asistencia Entrenamientos Personal	
Fecha : 5/3/2011	Hora: 9:30am
Entrenador (a): Tamara Echevarria	Facilidad: Procaribe
Tópico Discutido: **HAZCOM**	

Empleados Presentes:

Nombre:	Firma:
1.Ederick Caquias	
2.Xiomara Torres	
3.Marcos Valdés	
4.Angel Figueroa	
5.Eliseo Caraballo	
6.Eligio Ortiz	
7.Jose N. Hernández	
8.Juan Domenech	
9.Wilfreo Almodóvar	
10. Joel Santos	Joel Santos
11. Ruben Negrón	Rubén Negrón
12.	
13.	
14.	
15.	
16.	
17.	
18.	
19.	
20.	

Comentarios específicos del entrenamiento:

Se discutió reglamento de OSHA 1910.1200, MSDS, Etiquetas/ Tipos de Etiquetas, Escala de Comunicación de Riesgo, Donde conseguir la información, productos de exposición, riesgos asociados, como identificarlos, rotulación al transferir, etiquetas, Tiempo para la adiestramientos. Forma de detectar presencia de químicos y transportación.

Homeca Recycling Center Co, Inc

Hoja de Asistencia Entrenamientos Personal	
Fecha : 5/3/2011	Hora: 9:30am
Entrenador (a): Tamara Echevarria	Facilidad: Procaribe
Tópico Discutido: HAZCOM	

Empleados Presentes:

Nombre:	Firma:
1.Ederick Caquias	
2.Xiomara Torres	
3.Marcos Valdés	
4.Angel Figueroa	
5.Eliseo Caraballo	
6.Eligio Ortiz	
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Comentarios específicos del entrenamiento:

Se discutió reglamento de OSHA 1910.1200, MSDS, Etiquetas/ Tipos de Etiquetas, Escala de Comunicación de Riesgo, Donde conseguir la información, productos de exposición, riesgos asociados, como identificarlos, rotulación al transferir, etiquetas, Tiempo para la adiestramientos. Forma de detectar presencia de químicos y transportación.

Tópicos a Discutir en Programa Comunicación de Riesgos

Requisitos Básicos de Comunicación de Riesgo

La Administración para la Salud y Seguridad Ocupacional (OSHA) por sus siglas en ingles), a través de la Reglamentación Federal, 29 CFR Parte 1910.1200-Norma de Comunicación de Riesgos o "Derecho a Saber", tiene el propósito de reducir la incidencia de lesiones y enfermedades ocupacionales asociadas con la exposición a sustancias químicas peligrosas. La norma requiere el desarrollo e implantación de un Programa Escrito de Comunicación e Riesgo para proteger a los empelados de los riesgos físicos y a la salud, asociados a estas sustancias químicas peligrosas presentes en el lugar de trabajo y que la información que se obtiene se le comunique a todos los empelados cubiertos por la norma.

Ustedes deben conocer:

1) donde conseguir la información,
2) productos a los cuales están expuestos,
3) los riesgos asociados a estos y como identificarlos.
4) Tiempo de adiestramiento

Donde conseguir la información:

Discutir: Símbolo, Etiquetas, MSDS, a que aplica y que no aplica al MSDS,

La Determinación del Riesgo lo hace Manufacturero

Riegos asociados

1) En ocasiones los productos que utilizamos en el trabajo NO son más peligrosos de los que utilizamos en nuestras casas.

   Ejemplo: Easy Off

2) Importancia de la identificación de productos:

   Norma de 8 horas y debida rotulación (Uso inmediato)

   Rotulación rota

Tópicos a Discutir en Programa Comunicación de Riesgos

Requisitos Básicos de Comunicación de Riesgo

La Administración para la Salud y Seguridad Ocupacional (OSHA) por sus siglas en ingles), a través de la Reglamentación Federal, 29 CFR Parte 1910.1200-Norma de Comunicación de Riesgos o "Derecho a Saber", tiene el propósito de reducir la incidencia de lesiones y enfermedades ocupacionales asociadas con la exposición a sustancias químicas peligrosas. La norma requiere el desarrollo e implantación de un Programa Escrito de Comunicación e Riesgo para proteger a los empelados de los riesgos físicos y a la salud, asociados a estas sustancias químicas peligrosas presentes en el lugar de trabajo y que la información que se obtiene se le comunique a todos los empelados cubiertos por la norma.

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   Ejemplo: Easy Off

2) Importancia de la identificación de productos:

   Norma de 8 horas y debida rotulación (Uso inmediato)

   Rotulación rota

Si no sabe lo que es: NO LO USE!

Pedir MSDS en cada compra

Tipos de Etiqueta

Discutir Listado de Químicos y riesgos

Medidas de Protección

Tiempo de Adiestramiento

Anual o cuando cambie sustancias.

3) Transportación adecuada de los productos

Forma de detectar presencia de químico

Producto toxico q no huele o irritante

Ej. Mina canario

Si no sabe lo que es: NO LO USE!

Pedir MSDS en cada compra

Tipos de Etiqueta

Discutir Listado de Químicos y riesgos

Medidas de Protección

Tiempo de Adiestramiento

Anual o cuando cambie sustancias.

3) Transportación adecuada de los productos

Forma de detectar presencia de químico

Producto toxico q no huele o irritante

Ej. Mina canario

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Escala de Comunicación de Riesgo

0 Mínimo

1 Poco

2 Moderado

3 Serio

4 Extremo

Colores

Rojo= Flamabilidad (Fuego)

Azul= Salud (toxicidad)

Amarillo= Reactividad

Blanco= Instrucciones Especiales

Escala de Comunicación de Riesgo

0 Mínimo

1 Poco

2 Moderado

3 Serio

4 Extremo

Colores

Rojo= Flamabilidad (Fuego)

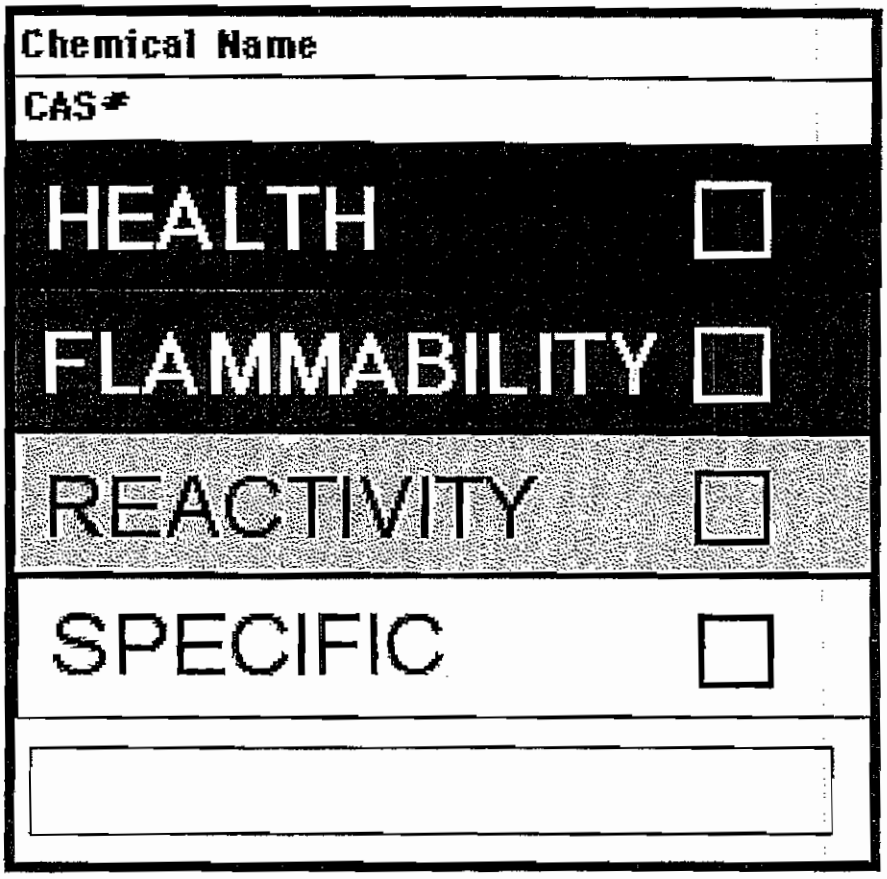
Azul= Salud (toxicidad)

Amarillo= Reactividad

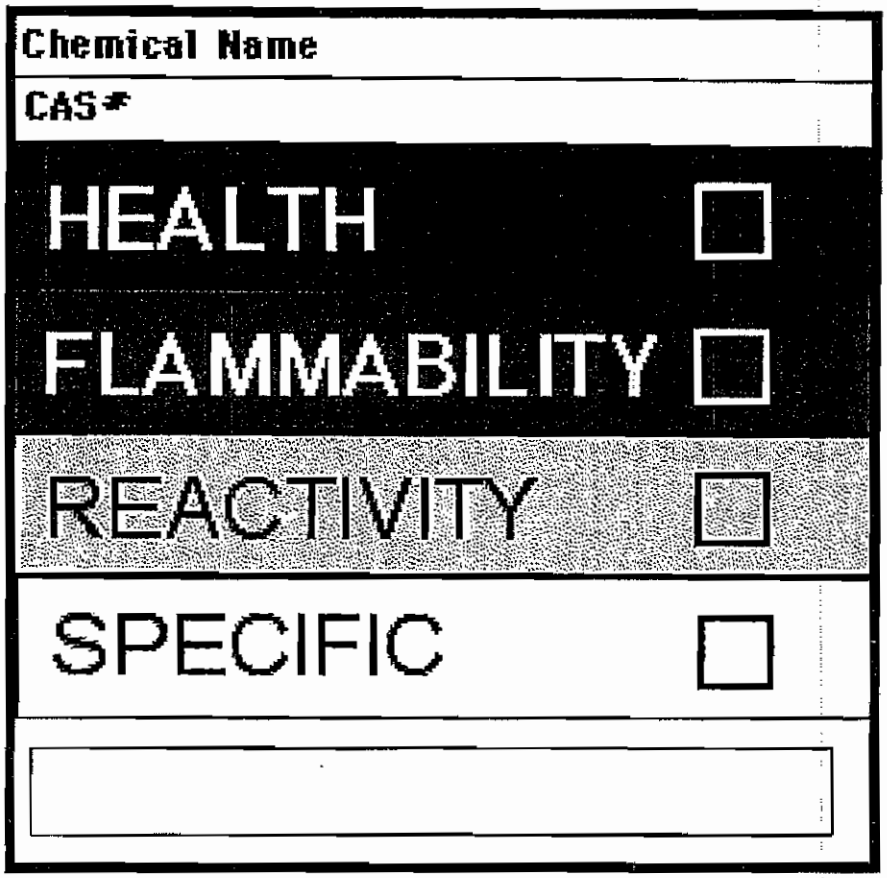
Blanco= Instrucciones Especiales

RX 6
CONFIDENTIAL & PRIVILEDGE
Page 1,625 of 1,639

FLAMMABLE
4 Extremely flamable
3 Ignites at normal temperatures
2 Ignites when moderately heated
1 Must be preheated to burn
0 Will not burn
HEALTH
4 Too dangerous to enter vapor or Liquid
3 Extremely dangerous use full proctective clothing
2 Hazardous - Use breathing apparatus
1 Slightly hazardous
0 Like ordinary material
INSTABILITY
4 May detonate - Vacate area if materials are exposed to fire
3 Strong shock or heat may detonate - Use monitors from behind explosive resistant barriers
2 Violent chemical change possible - Use hose streams from distance
1 Unstable if heated - Use normal precautions
0 Normally stable
4
3
W


Chemical Name
CAS#
HEALTH
FLAMMABILITY
REACTIVITY
SPECIFIC

HMIS


Chemical Name
CAS#
HEALTH
FLAMMABILITY
REACTIVITY
SPECIFIC

HMIS

CHEMICAL
NAME

CHECK APPROPRIATE BOXES

ROUTE OF ENTRY

( ) INGESTION
( ) INHALATION
( ) SKIN ABSORPTION

HEALTH HAZARDS

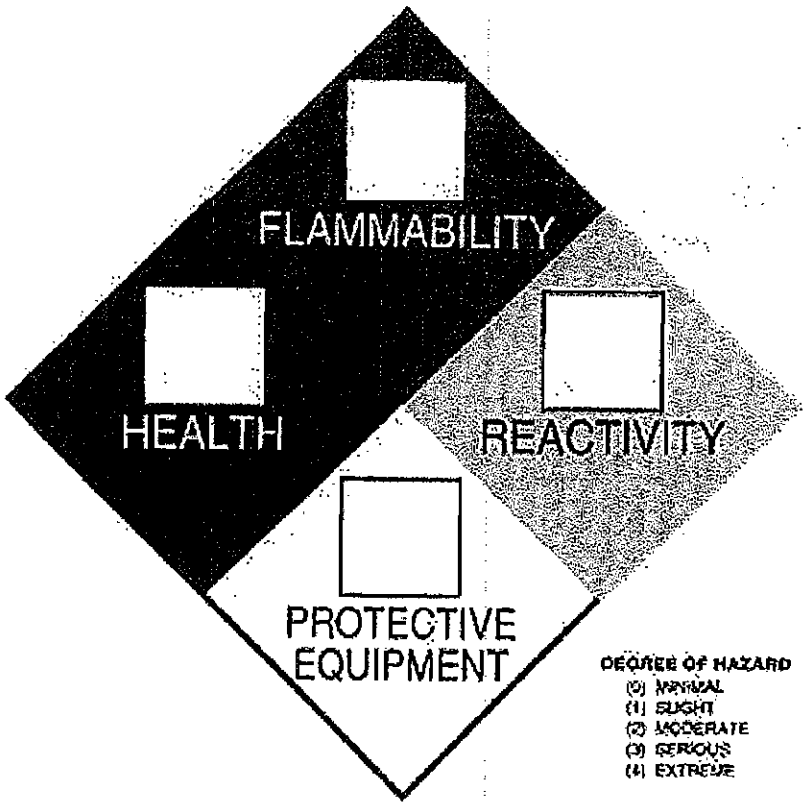
( ) CARCINOGEN
( ) CORROSIVE
( ) IRRITANT
( ) TOXIC

PHYSICAL HAZARDS

( ) COMBUSTIBLE LIQUID
( ) COMPRESSED GAS
( ) EXPLOSIVE
( ) FLAMMABLE
( ) FLAMMABLE GAS
( ) OXIDIZER
( ) PYROPHORIC
( ) REACTIVE

TARGET ORGANS & AFFECTS

( ) BLOOD
( ) CARDIOVASCULAR SYSTEM
( ) EYES
( ) KIDNEY
( ) LIVER
( ) MUCOUS MEMBRANE
( ) RESPIRATORY SYSTEM
( ) SKIN



DEGREE OF HAZARD
(0) MINIMAL
(1) SLIGHT
(2) MODERATE
(3) SERIOUS
(4) EXTREME

NFPA

CHEMICAL
NAME

CHECK APPROPRIATE BOXES

ROUTE OF ENTRY

( ) INGESTION
( ) INHALATION
( ) SKIN ABSORPTION

HEALTH HAZARDS

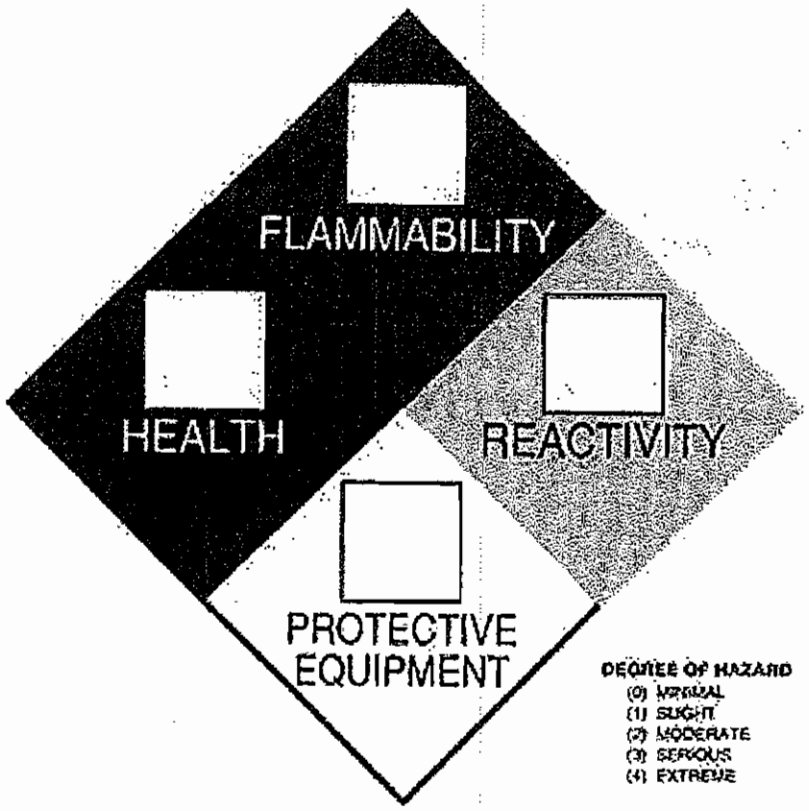
( ) CARCINOGEN
( ) CORROSIVE
( ) IRRITANT
( ) TOXIC

PHYSICAL HAZARDS

( ) COMBUSTIBLE LIQUID
( ) COMPRESSED GAS
( ) EXPLOSIVE
( ) FLAMMABLE
( ) FLAMMABLE GAS
( ) OXIDIZER
( ) PYROPHORIC
( ) REACTIVE

TARGET ORGANS & AFFECTS

( ) BLOOD
( ) CARDIOVASCULAR SYSTEM
( ) EYES
( ) KIDNEY
( ) LIVER
( ) MUCOUS MEMBRANE
( ) RESPIRATORY SYSTEM
( ) SKIN



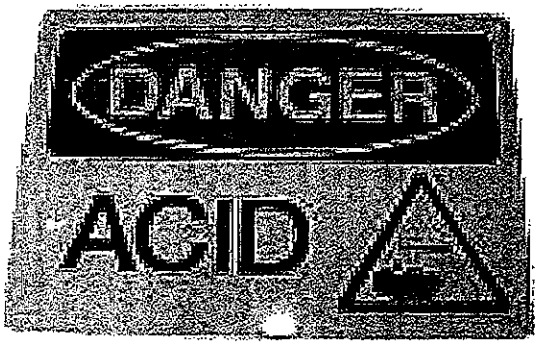
DEGREE OF HAZARD
(0) MINIMAL
(1) SLIGHT
(2) MODERATE
(3) SERIOUS
(4) EXTREME

NFPA


FLAMMABLE LIQUID
3


DANGER
ACID


FLAMMABLE LIQUID
3


DANGER
ACID

Homeca Recycling Center Co, Inc

Hoja de Asistencia Entrenamientos Personal

Fecha : 1 de noviembre de 2017	Hora: 8:00am - 12:00md
Entrenador (a): Tamara Echevarria	Facilidad: Ponce Playa
Tópico Discutido: Consideraciones de Seguridad, Normas, Politicas OSHA	

Empleados Presentes: Manual de Empleados.

	Nombre:	Firma:
OR	Norma Collazo Ramos	Norma Collazo Ramos
OR	Angel L Figueroa Stgo	A. Figueroa Stgo
OR	Luis I Robles	Luis I Robles
OR	Jorge G. Velazquez Irizarry	Jorge G. Velazquez Irizarry
OR	Emmanuel Santos Julia	Emmanuel Santos Julia
OR	Jose Miguel Miranda	Jose Miguel Miranda
OR	Hyge I. Silva Garcia	Hyge I. Silva Garcia
OR	Carlos J. Pizarro Santos	Carlos J. Pizarro Santos
OR	Geronimo Gonzalez Perez	Geronimo Gonzalez Perez
OR	Frankie Jorge Cabrera	Frankie Jorge Cabrera
OR	Ferdinand Alvarado	Ferdinand Alvarado
OR	Cristobal Solis	Cristobal Solis

Comentarios específicos del entrenamiento:

* Programa de Comunicación de Riesgos (Hazcom)
Uso Equipo Protección Personal y su ~~uso~~ mantenimiento.
Uso Extintores | Plan de Emergencia
Heat Stress | Prevención Incidentes e Incendios
Reglas Básicas, Protocolo violencia doméstica

Homeca Recycling Center Co, Inc

Hoja de Asistencia Entrenamientos Personal

(Training Employee (s) Attendance)

Fecha/Date: 1 de noviembre de 2012	Hora/Time: 1:00 pm @ 4:00 pm
Entrenador (a)/Trainer: Tamara Echevarría	Facilidad/Facility: Ponce Playa
Tópico Discutido/Topic: Consideraciones Generales de Seguridad	

Empleados Presentes / (Employee (s) Trained):
Manual de Empleados Normas, Políticas 001 @ 004

Nombre (Name):	Firma (Sinature):
Juan López	
GERALDO COLLAZO	
Melvin Feliciano	
Daniel Vargas Villar	
Jose A. Torres Diaz	
Edwin Alier Matos	
Eliseo Caraballo	
Steven Toro Lopez	
GERALDO COLLAZO	
Alexis Rivera Robles	
EDERICK J. GARCIA	
Miguel A. Cuevo	
Osvaldo Deleon	
Ricardo J. Cedeño Cruz	
Jayson L Morales	
Jorge L Torres Matos	
Edgardo Cabrera Melendez	
Juan Rodriguez	
Emilio Bonet	
Harris S. Morales	

Comentarios específicos del entrenamiento (Training Specifics Comments):

Eusebio Fransceschini Rivera — Eusebio Francheschini Rivera
Xiomara Torres — Xiomara Torres Rivera

* Programa de comunicación de Riesgos (Hazcom), Reglas Básicas, Heat Stress, Plan de Emergencias, Uso Extintores, Prevención Incidentes e Incendios, Uso Equipo de Protección Personal y su mantenimiento. Protocolo violencia doméstica

CROQUIS DE LAS ESTRUCTURAS A DEMOLER

DESMANTELAMIENTO DE LA ANTIGUAS FACILIDADES DE PUERTO RICO OLEFINS

Tallaboa Industrial Park
Carr. 127 km 19.1
Sector El Pueblito
Bo. Tallaboa Poniente,
Peñuelas
Puerto Rico 00624

PROPIEDAD DE
TALLABOA INDUSTRIAL PARK

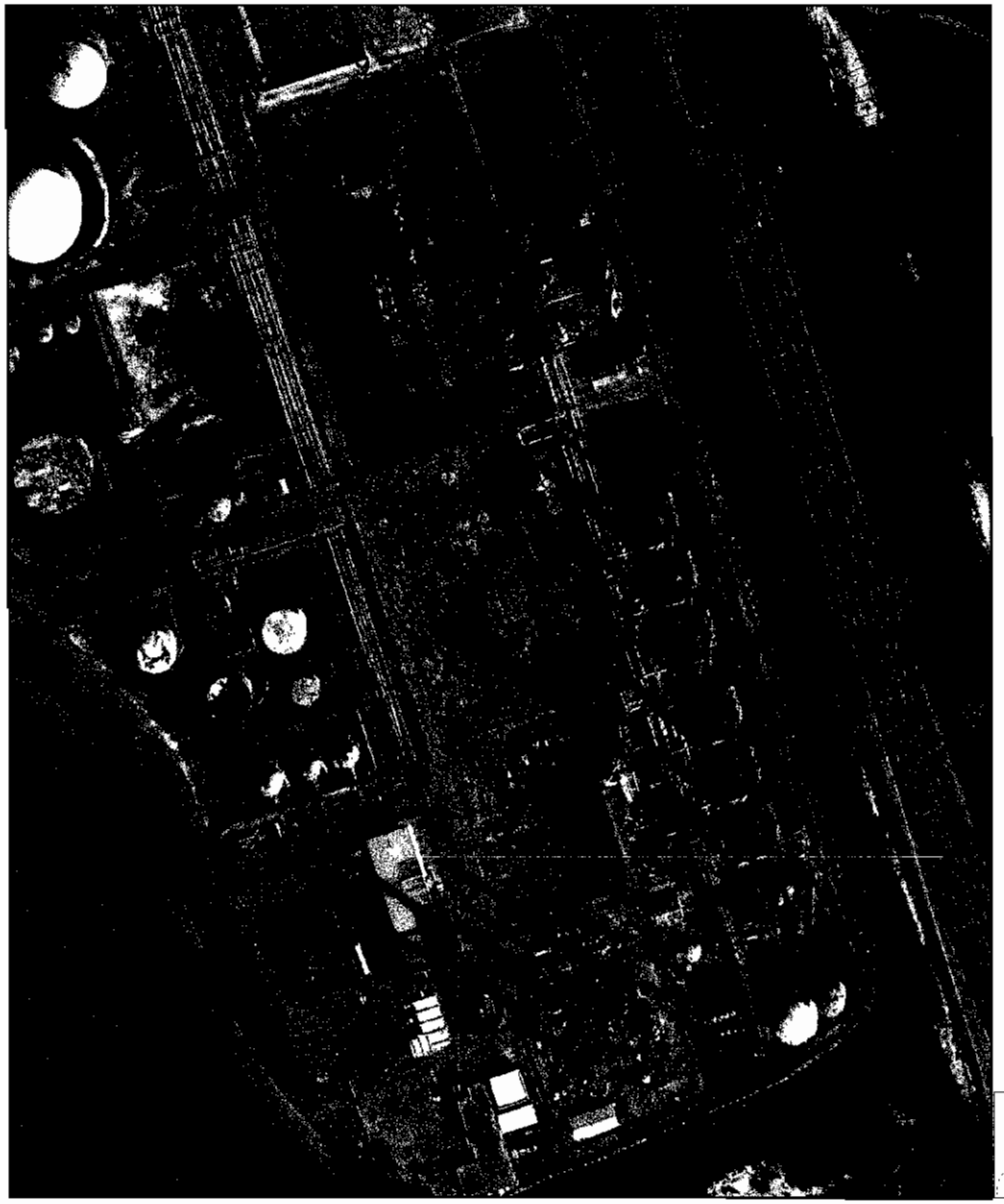
HOMECA RECYCLING CENTER CO. INC.
PO Box 231, Mercedita
Puerto Rico 00715

LEYENDA Y NOTAS:

ESTRUCTURA @ DESMANTELAR

LINEAS QUE DEMARCAN EL AREA APROXIMADA A SER IMPACTADA

NOTA: ÁREA @ DESMANTELAR = 95,441.3537 PC = 8,866.7919 MC





MAPA TOPOGRAFICO
X=169,155.1644 Y=218,911.7394



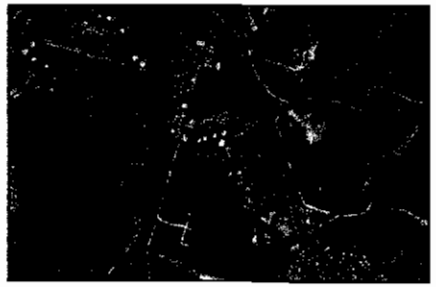


FOTO AERIEA

DESCRIPCION:
MAPA TOPOGRÁFICO, MAPA DE FEMA, PLANO DE SITUACION Y TABLA DE MENSURA

Yo, José Luis Rivera Figueroa, numero de licencia 17816 certifico que soy el profesional que diseño estos planos y las especificaciones complementarias. También certifico que estando que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido sin conocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi consentimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPE y otras autoridades competentes incluyendo, pero sin limitarse, a la terminación de la participación en los procedimientos de certificación profesional en la OGPE.

JOSE L. RIVERA FIGUEROA
PROFESIONAL LICENCIADO
LIC # 17816
PUERTO RICO
CERTIFICADO POR

REVISADO POR:	
DIBUJADO POR:	
FECHA:	DICIEMBRE 2013
ESCALA:	1:7,000

S-1 | 1 de 1

CONFIDENTIAL & PRIVILEDGE

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Page 1,635 of 1,639

Anejo 13

CONFIDENTIAL & PRIVILEDGE

PUERTO RICO OSHA

Forma OSHO-300A
Resumen de Lesiones y Enfermedades Ocupacionales

Año 20 10

Departamento del Trabajo y Recursos Humanos
Administración de Seguridad y Salud Ocupacional de Puerto Rico

Todos los establecimientos cubiertos por el 2 OSH 1904 deben completar este Resumen, aún cuando no ocurriera ninguna lesión o enfermedad ocupacional durante el año. Recuerde revisar el Registro de Lesiones y Enfermedades Ocupacionales para verificar que todas las partidas estén llenas y correctas, antes de completar este resumen.

Usando el Registro, cuente las partidas individuales realizadas por cada categoría. Luego, escriba el total abajo, asegurándose de haber sumado las partidas de cada una de las páginas del Registro. Si no tiene casos registrados, escriba "0".

Empleados, ex-empleados, y sus representantes tienen el derecho de revisar la Forma OSHO-300 completa. También, tienen acceso limitado a la Forma OSHO 301 o su equivalente. Ver el 2 OSH 1904.35, Registro de Lesiones y Enfermedades Ocupacionales de PR OSHA, para más detalles sobre el acceso a estas formas.

Número de Casos

Número Total de Muertes	Número Total de Casos con Días Fuera del Trabajo	Número Total de Casos con Transferencia o Restricción de Trabajo	Número Total de Otros Casos Registrables
0	0	0	0
(G)	(H)	(I)	(J)

Número de Días

Número Total de Días Fuera del Trabajo	Número Total de Días de Transferencia o Restricción de Trabajo
0	0
(K)	(L)

Tipos de Lesiones y Enfermedades

Número Total de . . . (M)

1) Lesiones	0	4) Envenenamiento	0
2) Desordenes de la Piel	0	5) Pérdida de Audición	0
3) Condiciones Respiratorias	0	6)Todas las otras Enfermedades	0

Fije este Resumen a partir del 1ro de febrero hasta el 30 de abril del año siguiente al período cubierto por la forma.

Información del Establecimiento

Nombre del Establecimiento Homeca Recycling Center

Calle C/Salmon Puerto de Ponce, Playa

Ciudad Ponce, Puerto Rico Zona Postal 00731

Descripción de la Industria (Ej.: Manufactura de camiones de arrastre)

Reciclaje Metales

Clasificación Industrial (SIC), si se conoce (Ej.: SIC 3715 - Camiones de Arrastre)

____ ____ ____ ____

Información de Empleo

Promedio anual del número de empleados 23

Total de horas trabajadas por todos los empleados 41,908

Firmé aquí

A sabiendas de que el falsificar este documento puede resultar en una multa.

Yo, certifico que he examinado este documento y que dentro de mi mejor conocimiento las partidas son ciertas, exactas y completas.

Benjamin Colon Security Officer

Ejecutivo de la Compañía Título

_____ _____

Teléfono Fecha

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RX 6

001 RX 6

PUERTO RICO OSHA

Forma OSHO-300A
Resumen de Lesiones y Enfermedades Ocupacionales

Año 20 11

Departamento del Trabajo y Recursos Humanos
Administración de Seguridad y Salud Ocupacional de Puerto Rico

Todos los establecimientos cubiertos por el 2 OSH 1904 deben completar este Resumen, aun cuando no ocurriera alguna lesión o enfermedad ocupacional durante el año. Recuerde revisar el Registro de Lesiones y Enfermedades Ocupacionales para verificar que todas las partidas estén llenas y correctas, antes de completar este resumen.

Usando el Registro, cuente las partidas individuales realizadas por cada categoría. Luego, escriba el total abajo, asegurándose de haber sumado las partidas de cada una de las páginas del Registro. Si no tiene casos registrados, escriba "0".

Empleados, ex-empleados y sus representantes tienen el derecho de revisar la Forma OSHO-300 en su totalidad. También tienen acceso limitado a la Forma OSHO 301 o su equivalente. Ver el 2 OSH 1904.35, Registro de Lesiones y Enfermedades Ocupacionales de PR OSHA, para más detalles sobre el acceso a estas formas.

Número de Casos

Número Total de Muertes	Número Total de Casos con Días Fuera del Trabajo	Número Total de Casos con Transferencia o Restricción de Trabajo	Número Total de Otros Casos Registrables
0	1	0	0
(G)	(H)	(I)	(J)

Número de Días

Número Total de Días Fuera del Trabajo	Número Total de Días de Transferencia o Restricción de Trabajo
0	0
(K)	(L)

Tipos de Lesiones y Enfermedades

Número Total de ...	(M)		
1) Lesiones	1	4) Envenenamiento	0
2) Desordenes de la Piel	0	5) Pérdida de Audición	0
3) Condiciones Respiratorias	0	6)Todas las otras Enfermedades	0

Fije este Resumen a partir del 1ro de febrero hasta el 30 de abril del año siguiente al período cubierto por la forma.

Información del Establecimiento PR Olefins

Nombre del Establecimiento Humacao Recycling Center Co.

Calle Parcaribe Carr 127 km 19.1 Bo. Tallaboa

Ciudad Penuelas, Puerto Rico Zona Postal 00624

Descripción de la Industria (Ej.: Manufactura de camiones de arrastre)

Scrap and Waste Materials

Clasificación Industrial (SIC), si se conoce (Ej.: SIC 3715 - Camiones de Arrastre)

5093

Información de Empleo

Promedio anual del número de empleados 12

Total de horas trabajadas por todos los empleados 18,877

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A sabiendas de que el falsificar este documento puede resultar en una multa.

Yo, certifico que he examinado este documento y que dentro de mi mejor conocimiento las partidas son ciertas, exactas y completas. Oficial Cumplimiento

Tamara Echevarria Seguridad Ocupacional y Ambiental

Ejecutivo de la Compañía Título

(787) 632-6173 31/01/12

(787) Teléfono 841-2223 Fecha

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Forma OSHO-300A

Año 12

Registro de Lesiones y Enfermedades Ocupacionales

Departamento del Trabajo y Recursos Humanos
Administración de Seguridad y Salud de PR

Todos los establecimientos cubiertos por el 2 OSH 1904 deben completar este Resumen, aún cuando no ocurriera alguna lesión o enfermedad ocupacional durante el año. Recuerde revisar el Registro de Lesiones y Enfermedades Ocupacionales para verificar que todas las partidas están llenas y correctas, antes de completar este resumen.

Usando el Registro, cuente las partidas individuales realizadas por cada categoría. Luego, escriba el total abajo, asegurándose de haber sumado las partidas de cada una de las páginas del Registro. Si no tiene casos registrados, escriba A0".

Empleados, ex-empleados, y sus representantes tienen el derecho de revisar la Forma OSHO-300 en su totalidad. También, tienen acceso limitado a la Forma OSHO 301 o su equivalente. Ver el 2 OSH 1904.35, Registro de Lesiones y Enfermedades Ocupacionales de PR OSHA, para más detalles sobre el acceso a estas formas.

Número de Casos

Número Total de Muertes	Número Total de Casos con Días Fuera del Trabajo	Número Total de Casos con Transferencia o Restricción de Trabajo	Número Total de Otros Casos Registrables
0	1	0	0
(G)	(H)	(I)	(J)

Número de Días

Número Total de Días fuera del Trabajo	Número Total de Días de Trasferencia o Restricción de Trabajo
10	0
(K)	(L)

Tipo de Lesiones y Enfermedades

Número Total de...	(M)		
(1) Lesiones	1	(4) Envenenamiento	0
(2) Desordenes de la Piel	0	(5) Pérdida de la Audición	0
(3) Condiciónes Respiratorias	0	(6) Todas las otras Enfermedad	0

Despliegue este Resumen a partir del 1 de febrero hasta el 30 de abril del año siguiente al periodo cubierto por la forma.

Información del Establecimiento

Nombre del Establecimiento: Homeca Recycling Center Co, Inc

Calle: PR 127 Procaribe

Ciudad: Peñuelas Puerto Rico Zona Postal: 624

Descripción de la Industria (Ej., Manufactura de camiones de arrastre):
Constratista General No Residencial

Clasificación Industrial (SIC), si se conoce (Ej., SIC 3715 - Camiones de Arrastre):
1 5 4 2

Información de Empleo

Promedio anual del número de empleados: 6

Total de horas trabajadas por todos los empleados: 14593.5

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Yo, certifico que he examinado este documento y que dentro de mi mejor conocimiento, las partidas son ciertas, exactas y completas.

Tamara Echevarría	Directora Cumplimiento
Ejecutivo de la Compañía	Título
787-841-2223	1/31/2013
Teléfono	Fecha

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