FACILITY PERMIT TO OPERATE
U S A WASTE OF CAL :EL SOBRANTE LANDFILL

Facility Equipment and Requirements
(Section D)

This section consists of a table listing all permitted equipment at the facility, facility wide requirements, all individual Permits to Operate issued to various equipment at the facility, and Rule 219-exempt equipment subject to source-specific requirements. Each permit and Rule 219-exempt equipment will list operating conditions, including periodic monitoring requirements and applicable emission limits and requirements. Also included are the rule origin and authority of each emission limit and permit condition.

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PERMITTED EQUIPMENT LIST

THE FOLLOWING IS A LIST OF ALL PERMITS TO OPERATE AT THIS FACILITY:

Application Number	Permit to Operate Number	Equipment Description	Page Number
430422	F86553	ICE (>500 HP) LANDFILL GAS	6
430424	F86554	ICE (>500 HP) LANDFILL GAS	10
430729	F86555	ICE (>500 HP) LANDFILL GAS	14
499536		FLARE, ENCLOSED LANDFILL/DIGESTER GAS	18
463732	F91987	LANDFILL CONDENSATE/LEACHATE/COLLECTION	23
463733	F91988	LANDFILL GAS COLLECTION (>50 WELLS)	27

NOTE: ANY APPLICATIONS THAT ARE STILL BEING PROCESSED AND HAVE NOT BEEN ISSUED PERMITS TO CONSTRUCT OR PERMITS TO OPERATE WILL NOT BE FOUND IN THIS TITLE V PERMIT.

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FACILITY WIDE CONDITION(S)

Condition(s):

1. EXCEPT FOR OPEN ABRASIVE BLASTING OPERATIONS, THE OPERATOR SHALL NOT DISCHARGE INTO THE ATMOSPHERE FROM ANY SINGLE SOURCE OF EMISSIONS WHATSOEVER ANY AIR CONTAMINANT FOR A PERIOD OR PERIODS AGGREGATING MORE THAN THREE MINUTES IN ANY ONE HOUR WHICH IS:

   A. AS DARK OR DARKER IN SHADE AS THAT DESIGNATED NO. 1 ON THE RINGLEMANN CHART, AS PUBLISHED BY THE UNITED STATES BUREAU OF MINES; OR
   B. OF SUCH OPACITY AS TO OBSCURE AN OBSERVER'S VIEW TO A DEGREE EQUAL TO OR GREATER THAN DOES SMOKE DESCRIBED IN SUBPARAGRAPH (A) OF THIS CONDITION.

   [RULE 401]

2. THE OPERATOR SHALL NOT USE FUEL OIL CONTAINING SULFUR COMPOUNDS IN EXCESS OF 0.05 PERCENT BY WEIGHT. ON OR AFTER JUNE 1, 2004, THE OPERATOR SHALL NOT PURCHASE DIESEL FUEL UNLESS THE FUEL IS LOW SULFUR DIESEL FOR WHICH THE SULFUR CONTENT SHALL NOT EXCEED 15 PPM BY WEIGHT.
   [RULE 431.2]

3. THE OPERATOR SHALL NOT USE LANDFILL GAS CONTAINING SULFUR COMPOUNDS IN EXCESS OF 150 PPMV CALCULATED AS HYDROGEN SULFIDE AVERAGED DAILY.
   [RULE 431.1]

4. THE OWNER/OPERATOR OF A MSW LANDFILL SHALL COMPLY WITH THE FOLLOWING:

   A. INSTALL AND OPERATE A WIND SPEED AND DIRECTION MONITORING SYSTEM WITH A CONTINUOUS RECORDER. FOR WIND SPEED, USE A 3 CUP ASSEMBLY WITH A RANGE OF 0 TO 50 MILES AN HOUR, WITH A THRESHOLD OF 0.75 MILE PER HOUR OR LESS. FOR WIND DIRECTION, USE A VANE WITH A RANGE OF 0 TO 540 DEGREES AZIMUTH, WITH A THRESHOLD OF PLUS-MINUS 2 DEGREES. AN APPROVED ALTERNATIVE MAY BE USED IN LIEU OF THE ABOVE.
   [RULE 1150.1]

   B. MONITOR AND COLLECT MONTHLY, OR AS PER THE APPROVED 1150.1 ALTERNATIVE, SAMPLES FOR ANALYSIS OF TOC AND TAC FROM THE SUBSURFACE REFUSE BOUNDARY SAMPLING PROBES.
   [RULE 1150.1]

   C. OPERATE THE COLLECTION SYSTEM TO PREVENT THE CONCENTRATION OF TOC MEASURED AS METHANE FROM EXCEEDING 5% BY VOLUME IN THE SUBSURFACE REFUSE BOUNDARY SAMPLING PROBES.
   [RULE 1150.1]

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D. COLLECT MONTHLY, OR AS PER THE APPROVED 1150.1 ALTERNATIVE, INTEGRATED SAMPLES FOR ANALYSIS OF TOC AND TAC FROM THE LANDFILL SURFACE.
[RULE 1150.1]

E. OPERATE THE COLLECTION SYSTEM TO PREVENT THE CONCENTRATION OF TOC MEASURED AS METHANE FROM EXCEEDING 50 PPMV AS DETERMINED BY INTEGRATED SAMPLES TAKEN ON NUMBERED 50,000 SQUARE FOOT LANDFILL GRIDS OR AS PER THE APPROVED 1150.1 ALTERNATIVE
[RULE 1150.1]

F. MONITOR QUARTERLY, OR AS PER THE APPROVED 1150.1 ALTERNATIVE, THE LANDFILL SURFACE FOR TOC EACH QUARTER, OR AS APPROVED, FROM THE SURFACE OF THE LANDFILL
[RULE 1150.1]

G. OPERATE THE COLLECTION SYSTEM TO PREVENT THE CONCENTRATION OF TOC MEASURED AS METHANE FROM EXCEEDING 500 PPMV ABOVE BACKGROUND AS DETERMINED BY INSTANTANEOUS MONITORING AT ANY LOCATION ON THE LANDFILL, EXCEPT AT THE OUTLET OF ANY CONTROL DEVICE.
[RULE 1150.1]

H. COLLECT MONTHLY, OR AS PER THE APPROVED 1150.1 ALTERNATIVE, LANDFILL GAS SAMPLES FOR ANALYSIS OF TOC AND TAC FROM THE MAIN GAS COLLECTION HEADER LINE ENTERING THE GAS TREATMENT AND/OR GAS CONTROL SYSTEM.
[RULE 1150.1]

I. COLLECT MONTHLY, OR AS PER THE APPROVED 1150.1 ALTERNATIVE, AMBIENT AIR SAMPLES FOR ANALYSIS OF TOC AND TAC FROM THE LANDFILL PROPERTY BOUNDARY.
[RULE 1150.1]

5. THE OWNER/OPERATOR OF A MSW LANDFILL SHALL COMPLY WITH THE FOLLOWING:

A. OPERATE THE COLLECTION SYSTEM SUCH THAT THE GAS IS COLLECTED FROM EACH AREA, CELL OR GROUP OF CELLS OF THE LANDFILL IN WHICH THE INITIAL SOLID WASTE HAS BEEN IN PLACE FOR A PERIOD OF;
(1). 5 YEARS OR MORE IF ACTIVE; OR
(2) 2 YEARS OR MORE IF CLOSED OR AT FINAL GRADE

B. OPERATE THE COLLECTION SYSTEM WITH NEGATIVE PRESSURE AT EACH WELL-HEAD EXCEPT UNDER THE FOLLOWING CONDITIONS:
(1). DURING A FIRE OR INCREASED WELL TEMPERATURE – THE OWNER/OPERATOR SHALL RECORD THE INSTANCES WHEN POSITIVE PRESSURE OCCURS IN EFFORTS TO PREVENT A FIRE. THIS REPORT SHALL BE SUBMITTED WITH THE ANNUAL REPORTS AS PROVIDED IN §60.757(f)(1).
(2). WHENEVER A GEOMEMBRANE OR SYNTHETIC COVER IS IN PLACE- THE OWNER/OPERATOR SHALL DEVELOP ACCEPTABLE PRESSURE LIMITS IN THE DESIGN PLAN.

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(3). WHEN A WELL IS DECOMMISSIONED – A WELL MAY EXPERIENCE A STATIC POSITIVE PRESSURE AFTER SHUT DOWN TO ACCOMMODATE FOR DECLINING FLOWS.

C. OPERATE EACH INTERIOR WELLHEAD IN THE COLLECTION SYSTEM WITH A LANDFILL GAS TEMPERATURE LESS THAN 55 DEGREES C AND WITH EITHER A NITROGEN LEVEL LESS THAN 20% OR AN OXYGEN LEVEL LESS THAN 5% AS DETERMINED BY METHODS DESCRIBED IN §60.753(c).

D. OPERATE THE COLLECTION SYSTEM SO THAT THE METHANE CONCENTRATION IS LESS THAN 500 PPM ABOVE BACKGROUND AT THE SURFACE OF THE LANDFILL AS DETERMINED IN ACCORDANCE WITH MONITORING PROCEDURES SPECIFIED IN §60.753 AND 60.754.

E. OPERATE THE COLLECTION SYSTEM SUCH THAT ALL COLLECTED GASES ARE VENTED TO A CONTROL SYSTEM DESIGNED AND OPERATED IN COMPLIANCE WITH §60.752(b)(2)(iii).

F. OPERATE THE COLLECTION AND CONTROL SYSTEM IN COMPLIANCE WITH TEST METHODS AND PROCEDURES OF §60.754

G. OPERATE THE COLLECTION AND CONTROL SYSTEM IN COMPLIANCE WITH COMPLIANCE PROVISIONS OF §60.755

H. OPERATE THE COLLECTION AND CONTROL SYSTEM IN COMPLIANCE WITH MONITORING PROCEDURES OF §60.756

I. OPERATE THE COLLECTION AND CONTROL SYSTEM IN COMPLIANCE WITH REPORTING REQUIRMENTS OF §60.757

J. OPERATE THE COLLECTION AND CONTROL SYSTEM IN COMPLIANCE WITH RECORD KEEPING REQUIREMENTS OF §60.758

[GASEOUS EMISSIONS: 40CFR60 SUBPART WWW]

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PERMIT TO OPERATE

Permit No. F86553
A/N 430422

Equipment Description:

LANDFILL GAS CONTROL SYSTEM CONSISTING OF:

1. FUEL CONDITIONING SYSTEM (NO. 1), WITH CENTRIFUGAL FILTER, 10 MICRON COALESCING FILTER, 40 HP BLOWER, FIRST STAGE HEAT EXCHANGER, SECOND STAGE HEAT EXCHANGER, TWO WATER KNOCKOUT TOWERS, 0.3 MICRON COALESCING FILTER

2. INTERNAL COMBUSTION ENGINE (NO. 1), DEUTZ CORPORATION, MODEL TBG 620 V16K, LANDFILL GAS FIRED, 16 CYLINDERS, LEAN BURN, TURBOCHARGED, AFTERCOOLED, 1877 BHP, WITH 1358 KW GENERATOR.

Conditions:

1) OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]

2) THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]

3) THIS EQUIPMENT SHALL BE OPERATED BY PERSONNEL PROPERLY TRAINED IN ITS OPERATION.
[RULE 204]

4) A FLOW INDICATING AND RECORDING DEVICE SHALL BE INSTALLED IN THE LANDFILL GAS SUPPLY LINE TO EACH ENGINE TO MEASURE AND RECORD THE QUANTITY OF LANDFILL GAS (IN SCFM) BEING BURNED.
[RULE 1303(b)(2)-OFFSET]

5) A SAMPLING PORT SHALL BE INSTALLED AT THE INLET GAS LINE TO THE ENGINE TO ALLOW THE COLLECTION OF A LANDFILL GAS SAMPLE.
[RULE 217, 431.1, 1150.1]

6) TWO SAMPLING PORTS SHALL BE INSTALLED AND MAINTAINED IN THE ENGINE EXHAUST 8-10 DUCT DIAMETERS DOWNSTREAM AND TWO DUCT DIAMETERS UPSTREAM OF ANY FLOW DISTURBANCE, AT 90 DEGREES APART, AND SHALL CONSIST OF TWO 2-1/2 INCH WELDED NIPPLES WITH CAPS. AN EQUIVALENT METHOD FOR EMISSIONS SAMPLING MAY BE USED UPON APPROVAL OF THE SCAQMD. ADEQUATE AND SAFE ACCESS TO THE TEST PORTS SHALL BE PROVIDED.
[RULE 217]

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7) THE TOTAL HEATING VALUE OF LANDFILL GAS BURNED IN THIS ENGINE SHALL NOT EXCEED 17.4 MILLION BTU'S PER HOUR. A LOG SHALL BE KEPT INDICATING THE TOTAL HEATING VALUE OF GAS BURNED IN THIS ENGINE BASED ON THE RECORDED FLOW RATE (SCFM) AND THE LATEST WEEKLY BTU CONTENT READING.
[RULE 1303(b)(2)-OFFSET]

8) WEEKLY READINGS OF THE BTU CONTENT OF THE LANDFILL GAS AT THE INLET TO THE ENGINE SHALL BE TAKEN USING AN INSTRUMENT APPROVED BY THE SCAQMD. ALL RESULTS SHALL BE RECORDED.
[RULE 1303(b)(2)-OFFSET]

9) ALL RECORDING DEVICES SHALL BE SYNCHRONIZED WITH RESPECT TO THE TIME OF DAY.
[RULE 1303(b)(2)-OFFSET]

10) OPERATION OF THIS EQUIPMENT SHALL NOT RESULT IN THE RELEASE OF RAW LANDFILL GAS INTO THE ATMOSPHERE. ANY BREAKDOWN OR MALFUNCTION WHICH RESULTS IN EMISSIONS OF RAW LANDFILL GAS SHALL BE REPORTED TO THE SCAQMD MANAGER OF TOXICS AND WASTE MANAGEMENT TEAM WITHIN ONE HOUR OF OCCURRENCE, AND IMMEDIATE REMEDIAL MEASURES SHALL BE UNDERTAKEN TO CORRECT THE PROBLEM AND PREVENT FURTHER EMISSIONS INTO THE ATMOSPHERE.
[RULE 402, 430, 1150.1]

11) THIS ENGINE SHALL NOT BE OPERATED IN SUCH A MANNER AS TO INTERFERE WITH THE ABILITY OF THE LANDFILL OPERATOR/OWNER TO COMPLY WITH SCAQMD RULE 1150.1 OR ANY OTHER DISTRICT, STATE OR FEDERAL RULE LIMITING LANDFILL GAS MIGRATION OR SURFACE EMISSIONS.
[RULE 1150.1]

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12) THE APPLICANT SHALL CONDUCT ANNUAL SOURCE TESTS IN ACCORDANCE WITH SCAQMD APPROVED TEST PROCEDURES AND FURNISH THE SCAQMD WRITTEN RESULTS OF SUCH PERFORMANCE TESTS WITHIN 45 DAYS AFTER ANNIVERSARY OF INITIAL PERFORMANCE TEST. WRITTEN NOTICE OF SOURCE TESTS SHALL BE PROVIDED TO THE SCAQMD 10 DAYS PRIOR TO THE TESTING SO THAT AN OBSERVER MAY BE PRESENT. ALL SOURCE TESTING AND ANALYTICAL METHODS SHALL BE SUBMITTED TO THE SCAQMD FOR APPROVAL AT LEAST 30 DAYS PRIOR TO START OF TESTS. THE TESTS SHALL INCLUDE, BUT MAY NOT BE LIMITED TO, A TEST OF THE INLET FUEL GAS TO THE ENGINE AND THE ENGINE EXHAUST FOR:

A. METHANE
B. TOTAL NON-METHANE ORGANICS
C. OXIDES OF NITROGEN (EXHAUST ONLY)
D. CARBON MONOXIDE (EXHAUST ONLY)
E. TOTAL PARTICULATES (EXHAUST ONLY)
F. HYDROGEN SULFIDE (INLET ONLY)
G. C1 THROUGH C3 SULFUR COMPOUNDS (SPECIATED, INLET ONLY)
H. CARBON DIOXIDE
I. ALDEHYDES (EXHAUST ONLY)
J. RULE 1150.1 TABLE 1 COMPOUNDS
K. OXYGEN
L. NITROGEN
M. MOISTURE CONTENT
N. TEMPERATURE
O. FLOW RATE
P. NMOC DESTRUCTION EFFICIENCY
Q. BTU CONTENT (INLET ONLY)

[RULE 1150.1, 1303(a)(1)-BACT, 1303(b)(2)-OFFSET, 1401, 40 CFR 63 SUBPART AAAA]

13) EMISSIONS RESULTING FROM THE ENGINE EXHAUST SHALL NOT EXCEED THE FOLLOWING:

POLLUTANT	LBS./HOUR
NOX, AS NO2	2.5
SOX, AS SO2	0.72
CO	9.9
PM10	0.21
NMHC	1.65

[RULE 1303(a)(1)-BACT, 1303(b)(2)-OFFSET]

14) OXIDES OF NITROGEN EMISSIONS SHALL NOT EXCEED 0.6 GRAMS PER BRAKE HORSEPOWER HOUR.
[RULE 1303(a)(1)-BACT]

15) CARBON MONOXIDE EMISSIONS SHALL NOT EXCEED 2.4 GRAMS PER BRAKE HORSEPOWER HOUR.
[RULE 1303(a)(1)-BACT]

16) REACTIVE ORGANIC GAS EMISSIONS SHALL NOT EXCEED 0.4 GRAMS PER BRAKE HORSEPOWER HOUR.
[RULE 1303(a)(1)-BACT]

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17) A CONTINUOUS EMISSION MONITORING SYSTEM (CEMS) SHALL BE INSTALLED AND OPERATED TO MEASURE THE ENGINE EXHAUST STACK CONCENTRATION FOR NOX AND O2, ON A DRY BASIS. IN ADDITION, THE SYSTEM SHALL CONVERT THE ACTUAL NOX CONCENTRATION TO A CORRECTED NOX CONCENTRATION AT 15% O2 AND CONTINUOUSLY RECORD THE STACK NOX CONCENTRATION, STACK O2 CONCENTRATION AND CORRECTED NOX CONCENTRATION AT 15% O2. THIS MONITORING SYSTEM SHALL COMPLY WITH THE REQUIREMENTS OF SCAQMD RULE 218. PRIOR TO INSTALLATION, THIS MONITORING SYSTEM SHALL BE APPROVED IN WRITING BY THE EXECUTIVE OFFICER.
[RULE 218, 1110.2]

18) THIS EQUIPMENT SHALL NOT BURN NATURAL GAS OR OTHER AUXILIARY FUEL.
[RULE 1303(b)(2)-OFFSET]

Emissions and Requirements:

19) THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

NMOC: 20 PPMV OR 98 WEIGHT PERCENT REDUCTION, RULE 1150.1
NMOC: 20 PPMV OR 98 WEIGHT PERCENT REDUCTION, 40 CFR 63 SUBPART AAAA
CO: 2000 PPMV @15% OXYGEN, 15 MINUTE AVERAGE, RULE 1110.2
NOX: 36 PPMV @15% OXYGEN, 15 MINUTE AVERAGE, AT 25% EFFICIENCY, RULE 1110.2
ROG: 250 PPMV @15% OXYGEN, 15 MINUTE AVERAGE, AT 25% EFFICIENCY, RULE 1110.2
PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

FACILITY PERMIT TO OPERATE
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PERMIT TO OPERATE

Permit No. F86554
A/N 430424

Equipment Description:

LANDFILL GAS CONTROL SYSTEM CONSISTING OF:

1. FUEL CONDITIONING SYSTEM (NO. 2), WITH CENTRIFUGAL FILTER, 10 MICRON COALESCING FILTER, 40 HP BLOWER, FIRST STAGE HEAT EXCHANGER, SECOND STAGE HEAT EXCHANGER, TWO WATER KNOCKOUT TOWERS, 0.3 MICRON COALESCING FILTER

2. INTERNAL COMBUSTION ENGINE (NO. 2), DEUTZ CORPORATION, MODEL TBG 620 V16K, LANDFILL GAS FIRED, 16 CYLINDERS, LEAN BURN, TURBOCHARGED, AFTERCOOLED, 1877 BHP, WITH 1358 KW GENERATOR.

Conditions:

1) OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]

2) THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]

3) THIS EQUIPMENT SHALL BE OPERATED BY PERSONNEL PROPERLY TRAINED IN ITS OPERATION.
[RULE 204]

4) A FLOW INDICATING AND RECORDING DEVICE SHALL BE INSTALLED IN THE LANDFILL GAS SUPPLY LINE TO EACH ENGINE TO MEASURE AND RECORD THE QUANTITY OF LANDFILL GAS (IN SCFM) BEING BURNED.
[RULE 1303(b)(2)-OFFSET]

5) A SAMPLING PORT SHALL BE INSTALLED AT THE INLET GAS LINE TO THE ENGINE TO ALLOW THE COLLECTION OF A LANDFILL GAS SAMPLE.
[RULE 217, 431.1, 1150.1]

6) TWO SAMPLING PORTS SHALL BE INSTALLED AND MAINTAINED IN THE ENGINE EXHAUST 8-10 DUCT DIAMETERS DOWNSTREAM AND TWO DUCT DIAMETERS UPSTREAM OF ANY FLOW DISTURBANCE, AT 90 DEGREES APART, AND SHALL CONSIST OF TWO 2-1/2 INCH WELDED NIPPLES WITH CAPS. AN EQUIVALENT METHOD FOR EMISSIONS SAMPLING MAY BE USED UPON APPROVAL OF THE SCAQMD. ADEQUATE AND SAFE ACCESS TO THE TEST PORTS SHALL BE PROVIDED.
[RULE 217]

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7) THE TOTAL HEATING VALUE OF LANDFILL GAS BURNED IN THIS ENGINE SHALL NOT EXCEED 17.4 MILLION BTU'S PER HOUR. A LOG SHALL BE KEPT INDICATING THE TOTAL HEATING VALUE OF GAS BURNED IN THIS ENGINE BASED ON THE RECORDED FLOW RATE (SCFM) AND THE LATEST WEEKLY BTU CONTENT READING.
[RULE 1303(b)(2)-OFFSET]

8) WEEKLY READINGS OF THE BTU CONTENT OF THE LANDFILL GAS AT THE INLET TO THE ENGINE SHALL BE TAKEN USING AN INSTRUMENT APPROVED BY THE SCAQMD. ALL RESULTS SHALL BE RECORDED.
[RULE 1303(b)(2)-OFFSET]

9) ALL RECORDING DEVICES SHALL BE SYNCHRONIZED WITH RESPECT TO THE TIME OF DAY.
[RULE 1303(b)(2)-OFFSET]

10) OPERATION OF THIS EQUIPMENT SHALL NOT RESULT IN THE RELEASE OF RAW LANDFILL GAS INTO THE ATMOSPHERE. ANY BREAKDOWN OR MALFUNCTION WHICH RESULTS IN EMISSIONS OF RAW LANDFILL GAS SHALL BE REPORTED TO THE SCAQMD MANAGER OF TOXICS AND WASTE MANAGEMENT TEAM WITHIN ONE HOUR OF OCCURRENCE, AND IMMEDIATE REMEDIAL MEASURES SHALL BE UNDERTAKEN TO CORRECT THE PROBLEM AND PREVENT FURTHER EMISSIONS INTO THE ATMOSPHERE.
[RULE 402, 430, 1150.1]

11) THIS ENGINE SHALL NOT BE OPERATED IN SUCH A MANNER AS TO INTERFERE WITH THE ABILITY OF THE LANDFILL OPERATOR/OWNER TO COMPLY WITH SCAQMD RULE 1150.1 OR ANY OTHER DISTRICT, STATE OR FEDERAL RULE LIMITING LANDFILL GAS MIGRATION OR SURFACE EMISSIONS.
[RULE 1150.1]

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12) THE APPLICANT SHALL CONDUCT ANNUAL SOURCE TESTS IN ACCORDANCE WITH SCAQMD APPROVED TEST PROCEDURES AND FURNISH THE SCAQMD WRITTEN RESULTS OF SUCH PERFORMANCE TESTS WITHIN 45 DAYS AFTER ANNIVERSARY OF INITIAL PERFORMANCE TEST. WRITTEN NOTICE OF SOURCE TESTS SHALL BE PROVIDED TO THE SCAQMD 10 DAYS PRIOR TO THE TESTING SO THAT AN OBSERVER MAY BE PRESENT. ALL SOURCE TESTING AND ANALYTICAL METHODS SHALL BE SUBMITTED TO THE SCAQMD FOR APPROVAL AT LEAST 30 DAYS PRIOR TO START OF TESTS. THE TESTS SHALL INCLUDE, BUT MAY NOT BE LIMITED TO, A TEST OF THE INLET FUEL GAS TO THE ENGINE AND THE ENGINE EXHAUST FOR:

A. METHANE
B. TOTAL NON-METHANE ORGANICS
C. OXIDES OF NITROGEN (EXHAUST ONLY)
D. CARBON MONOXIDE (EXHAUST ONLY)
E. TOTAL PARTICULATES (EXHAUST ONLY)
F. HYDROGEN SULFIDE (INLET ONLY)
G. C1 THROUGH C3 SULFUR COMPOUNDS (SPECIATED, INLET ONLY)
H. CARBON DIOXIDE
I. ALDEHYDES (EXHAUST ONLY)
J. RULE 1150.1 TABLE 1 COMPOUNDS
K. OXYGEN
L. NITROGEN
M. MOISTURE CONTENT
N. TEMPERATURE
O. FLOW RATE
P. NMOC DESTRUCTION EFFICIENCY
Q. BTU CONTENT (INLET ONLY)

[RULE 1150.1, 1303(a)(1)-BACT, 1303(b)(2)-OFFSET, 1401, 40 CFR 63 SUBPART AAAA]

13) EMISSIONS RESULTING FROM THE ENGINE EXHAUST SHALL NOT EXCEED THE FOLLOWING:

POLLUTANT	LBS./HOUR
NOX, AS NO2	2.5
SOX, AS SO2	0.72
CO	9.9
PM10	0.21
NMHC	1.65

[RULE 1303(a)(1)-BACT, 1303(b)(2)-OFFSET]

14) OXIDES OF NITROGEN EMISSIONS SHALL NOT EXCEED 0.6 GRAMS PER BRAKE HORSEPOWER HOUR.
[RULE 1303(a)(1)-BACT]

15) CARBON MONOXIDE EMISSIONS SHALL NOT EXCEED 2.4 GRAMS PER BRAKE HORSEPOWER HOUR.
[RULE 1303(a)(1)-BACT]

16) REACTIVE ORGANIC GAS EMISSIONS SHALL NOT EXCEED 0.4 GRAMS PER BRAKE HORSEPOWER HOUR.
[RULE 1303(a)(1)-BACT]

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17) A CONTINUOUS EMISSION MONITORING SYSTEM (CEMS) SHALL BE INSTALLED AND OPERATED TO MEASURE THE ENGINE EXHAUST STACK CONCENTRATION FOR NOX AND O2, ON A DRY BASIS. IN ADDITION, THE SYSTEM SHALL CONVERT THE ACTUAL NOX CONCENTRATION TO A CORRECTED NOX CONCENTRATION AT 15% O2 AND CONTINUOUSLY RECORD THE STACK NOX CONCENTRATION, STACK O2 CONCENTRATION AND CORRECTED NOX CONCENTRATION AT 15% O2. THIS MONITORING SYSTEM SHALL COMPLY WITH THE REQUIREMENTS OF SCAQMD RULE 218. PRIOR TO INSTALLATION, THIS MONITORING SYSTEM SHALL BE APPROVED IN WRITING BY THE EXECUTIVE OFFICER.
[RULE 218, 1110.2]

18) THIS EQUIPMENT SHALL NOT BURN NATURAL GAS OR OTHER AUXILIARY FUEL.
[RULE 1303(b)(2)-OFFSET]

Emissions and Requirements:

19) THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

NMOC: 20 PPMV OR 98 WEIGHT PERCENT REDUCTION, RULE 1150.1
NMOC: 20 PPMV OR 98 WEIGHT PERCENT REDUCTION, 40 CFR 63 SUBPART AAAA
CO: 2000 PPMV @15% OXYGEN, 15 MINUTE AVERAGE, RULE 1110.2
NOX: 36 PPMV @15% OXYGEN, 15 MINUTE AVERAGE, AT 25% EFFICIENCY, RULE 1110.2
ROG: 250 PPMV @15% OXYGEN, 15 MINUTE AVERAGE, AT 25% EFFICIENCY, RULE 1110.2
PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

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PERMIT TO OPERATE

Permit No. F86555
A/N 430726

Equipment Description:

LANDFILL GAS CONTROL SYSTEM CONSISTING OF:

1. FUEL CONDITIONING SYSTEM (NO. 3), WITH CENTRIFUGAL FILTER, 10 MICRON COALESCING FILTER, 40 HP BLOWER, FIRST STAGE HEAT EXCHANGER, SECOND STAGE HEAT EXCHANGER, TWO WATER KNOCKOUT TOWERS, 0.3 MICRON COALESCING FILTER

2. INTERNAL COMBUSTION ENGINE (NO. 3), DEUTZ CORPORATION, MODEL TBG 620 V16K, LANDFILL GAS FIRED, 16 CYLINDERS, LEAN BURN, TURBOCHARGED, AFTERCOOLED, 1877 BHP, WITH 1358 KW GENERATOR.

Conditions:

1) OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]

2) THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]

3) THIS EQUIPMENT SHALL BE OPERATED BY PERSONNEL PROPERLY TRAINED IN ITS OPERATION.
[RULE 204]

4) A FLOW INDICATING AND RECORDING DEVICE SHALL BE INSTALLED IN THE LANDFILL GAS SUPPLY LINE TO EACH ENGINE TO MEASURE AND RECORD THE QUANTITY OF LANDFILL GAS (IN SCFM) BEING BURNED.
[RULE 1303(b)(2)-OFFSET]

5) A SAMPLING PORT SHALL BE INSTALLED AT THE INLET GAS LINE TO THE ENGINE TO ALLOW THE COLLECTION OF A LANDFILL GAS SAMPLE.
[RULE 217, 431.1, 1150.1]

6) TWO SAMPLING PORTS SHALL BE INSTALLED AND MAINTAINED IN THE ENGINE EXHAUST 8-10 DUCT DIAMETERS DOWNSTREAM AND TWO DUCT DIAMETERS UPSTREAM OF ANY FLOW DISTURBANCE, AT 90 DEGREES APART, AND SHALL CONSIST OF TWO 2-1/2 INCH WELDED NIPPLES WITH CAPS. AN EQUIVALENT METHOD FOR EMISSIONS SAMPLING MAY BE USED UPON APPROVAL OF THE SCAQMD. ADEQUATE AND SAFE ACCESS TO THE TEST PORTS SHALL BE PROVIDED.
[RULE 217]

FACILITY PERMIT TO OPERATE
U S A WASTE OF CAL :EL SOBRANTE LANDFILL

7) THE TOTAL HEATING VALUE OF LANDFILL GAS BURNED IN THIS ENGINE SHALL NOT EXCEED 17.4 MILLION BTU'S PER HOUR. A LOG SHALL BE KEPT INDICATING THE TOTAL HEATING VALUE OF GAS BURNED IN THIS ENGINE BASED ON THE RECORDED FLOW RATE (SCFM) AND THE LATEST WEEKLY BTU CONTENT READING.
[RULE 1303(b)(2)-OFFSET]

8) WEEKLY READINGS OF THE BTU CONTENT OF THE LANDFILL GAS AT THE INLET TO THE ENGINE SHALL BE TAKEN USING AN INSTRUMENT APPROVED BY THE SCAQMD. ALL RESULTS SHALL BE RECORDED.
[RULE 1303(b)(2)-OFFSET]

9) ALL RECORDING DEVICES SHALL BE SYNCHRONIZED WITH RESPECT TO THE TIME OF DAY.
[RULE 1303(b)(2)-OFFSET]

10) OPERATION OF THIS EQUIPMENT SHALL NOT RESULT IN THE RELEASE OF RAW LANDFILL GAS INTO THE ATMOSPHERE. ANY BREAKDOWN OR MALFUNCTION WHICH RESULTS IN EMISSIONS OF RAW LANDFILL GAS SHALL BE REPORTED TO THE SCAQMD MANAGER OF TOXICS AND WASTE MANAGEMENT TEAM WITHIN ONE HOUR OF OCCURRENCE, AND IMMEDIATE REMEDIAL MEASURES SHALL BE UNDERTAKEN TO CORRECT THE PROBLEM AND PREVENT FURTHER EMISSIONS INTO THE ATMOSPHERE.
[RULE 402, 430, 1150.1]

11) THIS ENGINE SHALL NOT BE OPERATED IN SUCH A MANNER AS TO INTERFERE WITH THE ABILITY OF THE LANDFILL OPERATOR/OWNER TO COMPLY WITH SCAQMD RULE 1150.1 OR ANY OTHER DISTRICT, STATE OR FEDERAL RULE LIMITING LANDFILL GAS MIGRATION OR SURFACE EMISSIONS.
[RULE 1150.1]

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12) THE APPLICANT SHALL CONDUCT ANNUAL SOURCE TESTS IN ACCORDANCE WITH SCAQMD APPROVED TEST PROCEDURES AND FURNISH THE SCAQMD WRITTEN RESULTS OF SUCH PERFORMANCE TESTS WITHIN 45 DAYS AFTER ANNIVERSARY OF INITIAL PERFORMANCE TEST. WRITTEN NOTICE OF SOURCE TESTS SHALL BE PROVIDED TO THE SCAQMD 10 DAYS PRIOR TO THE TESTING SO THAT AN OBSERVER MAY BE PRESENT. ALL SOURCE TESTING AND ANALYTICAL METHODS SHALL BE SUBMITTED TO THE SCAQMD FOR APPROVAL AT LEAST 30 DAYS PRIOR TO START OF TESTS. THE TESTS SHALL INCLUDE, BUT MAY NOT BE LIMITED TO, A TEST OF THE INLET FUEL GAS TO THE ENGINE AND THE ENGINE EXHAUST FOR:

A. METHANE
B. TOTAL NON-METHANE ORGANICS
C. OXIDES OF NITROGEN (EXHAUST ONLY)
D. CARBON MONOXIDE (EXHAUST ONLY)
E. TOTAL PARTICULATES (EXHAUST ONLY)
F. HYDROGEN SULFIDE (INLET ONLY)
G. C1 THROUGH C3 SULFUR COMPOUNDS (SPECIATED, INLET ONLY)
H. CARBON DIOXIDE
I. ALDEHYDES (EXHAUST ONLY)
J. RULE 1150.1 TABLE 1 COMPOUNDS
K. OXYGEN
L. NITROGEN
M. MOISTURE CONTENT
N. TEMPERATURE
O. FLOW RATE
P. NMOC DESTRUCTION EFFICIENCY
Q. BTU CONTENT (INLET ONLY)

[RULE 1150.1, 1303(a)(1)-BACT, 1303(b)(2)-OFFSET, 1401, 40 CFR 63 SUBPART AAAA]

13) EMISSIONS RESULTING FROM THE ENGINE EXHAUST SHALL NOT EXCEED THE FOLLOWING:

POLLUTANT	LBS./HOUR
NOX, AS NO2	2.5
SOX, AS SO2	0.72
CO	9.9
PM10	0.21
NMHC	1.65

[RULE 1303(a)(1)-BACT, 1303(b)(2)-OFFSET]

14) OXIDES OF NITROGEN EMISSIONS SHALL NOT EXCEED 0.6 GRAMS PER BRAKE HORSEPOWER HOUR.
[RULE 1303(a)(1)-BACT]

15) CARBON MONOXIDE EMISSIONS SHALL NOT EXCEED 2.4 GRAMS PER BRAKE HORSEPOWER HOUR.
[RULE 1303(a)(1)-BACT]

16) REACTIVE ORGANIC GAS EMISSIONS SHALL NOT EXCEED 0.4 GRAMS PER BRAKE HORSEPOWER HOUR.
[RULE 1303(a)(1)-BACT]

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17) A CONTINUOUS EMISSION MONITORING SYSTEM (CEMS) SHALL BE INSTALLED AND OPERATED TO MEASURE THE ENGINE EXHAUST STACK CONCENTRATION FOR NOX AND O2, ON A DRY BASIS. IN ADDITION, THE SYSTEM SHALL CONVERT THE ACTUAL NOX CONCENTRATION TO A CORRECTED NOX CONCENTRATION AT 15% O2 AND CONTINUOUSLY RECORD THE STACK NOX CONCENTRATION, STACK O2 CONCENTRATION AND CORRECTED NOX CONCENTRATION AT 15% O2. THIS MONITORING SYSTEM SHALL COMPLY WITH THE REQUIREMENTS OF SCAQMD RULE 218. PRIOR TO INSTALLATION, THIS MONITORING SYSTEM SHALL BE APPROVED IN WRITING BY THE EXECUTIVE OFFICER.
[RULE 218, 1110.2]

18) THIS EQUIPMENT SHALL NOT BURN NATURAL GAS OR OTHER AUXILIARY FUEL.
[RULE 1303(b)(2)-OFFSET]

Emissions and Requirements:

19) THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

NMOC: 20 PPMV OR 98 WEIGHT PERCENT REDUCTION, RULE 1150.1
NMOC: 20 PPMV OR 98 WEIGHT PERCENT REDUCTION, 40 CFR 63 SUBPART AAAA
CO: 2000 PPMV @15% OXYGEN, 15 MINUTE AVERAGE, RULE 1110.2
NOX: 36 PPMV @15% OXYGEN, 15 MINUTE AVERAGE, AT 25% EFFICIENCY, RULE 1110.2
ROG: 250 PPMV @15% OXYGEN, 15 MINUTE AVERAGE, AT 25% EFFICIENCY, RULE 1110.2
PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

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PERMIT TO OPERATE

Permit No.
A/N 499536

Equipment Description:

LANDFILL GAS FLARING SYSTEM CONSISTING OF:

1. KNOCKOUT VESSEL/GAS FILTER, ENDUSTRA, 2'-6" DIA. BY 6'-1" HIGH, 5,500 CFM CAPACITY.

2. KNOCKOUT VESSEL/MOISTURE SEPARATOR, 4' DIA. BY 10' HIGH

3. SHUT OFF VALVES

4. TWO (2) BLOWERS, HAUCK, EACH 25 HP, 1500 SCFM CAPACITY.

5. BLOWER, GARDNER DENVER/LAMSON, MODEL NO. 1404GD, 200 HP, 5500 SCFM CAPACITY, COMMON TO THE FLARING SYSTEM AND LANDFILL GAS FIRED INTERNAL COMBUSTION ENGINES.

6. TWO (2) BLOWERS, HOUSTON SERVICE INDUSTRIES, MODEL 14104, EACH 200 HP, 5500 SCFM, VARIABLE FREQUENCY DRIVE

7. TWO (3) FLAME ARRESTORS, 8" DIAMETER.

8. TWO (2) FLARES (NOS. 1 AND 2), DIXON BOILER WORKS, EACH 7'-7" INSIDE DIAMETER BY 22'-0" HIGH, WITH AUTOMATIC AIR DAMPER, PROPANE PILOT, UV FLAME DETECTOR, HEX BURNER DESIGN, FOUR 4" DIAMETER TEST PORTS, 1390 SCFM CAPACITY.

9. FLARE (NO. 3), JOHN ZINK, MODEL ZULE, 13' DIA. BY 60' HIGH, AUTOMATIC AIR DAMPER, PROPANE PILOT, 100 HP COMBUSTION AIR BLOWER, FOUR SOURCE TEST PORTS

10. TWO PROPANE TANKS, 5 GALLONS EACH.

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Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]

2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]

3. THIS EQUIPMENT SHALL BE OPERATED BY PERSONNEL PROPERLY TRAINED IN ITS OPERATION.
[RULE 204]

4. FOUR (4) SAMPLING PORTS SHALL BE PROVIDED IN EACH FLARE STACK AT LEAST FIVE (5) FEET UPSTREAM OF THE FLARE OUTLET. EACH SAMPLING PORT SHALL CONSIST OF A FOUR INCH COUPLING. ALL PORTS SHALL BE PROPERLY CENTERED. AN EQUIVALENT METHOD OF EMISSION SAMPLING MAY BE USED UPON APPROVAL OF THE EXECUTIVE OFFICER. ADEQUATE AND SAFE ACCESS TO ALL TEST PORTS SHALL BE PROVIDED.
[RULE 217]

5. A SAMPLING PORT SHALL BE MAINTAINED AT THE INLET GAS LINE TO THE FLARE(S) TO ALLOW THE COLLECTION OF LANDFILL GAS SAMPLES.
[RULE 217, 431.1, 1150.1]

6. EACH FLARE SHALL BE EQUIPPED WITH A TEMPERATURE INDICATOR AND RECORDER WHICH MEASURES AND RECORDS THE GAS TEMPERATURE IN THE FLARE STACK. THE TEMPERATURE INDICATOR AND RECORDER SHALL OPERATE WHENEVER THE FLARE IS IN OPERATION. THE TEMPERATURE SHALL BE MEASURED AT A LOCATION ABOVE THE FLAME ZONE, AT LEAST 0.6 SECONDS DOWNSTREAM OF THE BURNER AND NOT LESS THAN FIVE (5) FEET FROM THE TOP OF THE STACK.
[RULE 1303(a)(1)-BACT]

7. WHENEVER THE FLARE IS IN OPERATION, A TEMPERATURE OF NOT LESS THAN 1400 DEGREES FAHRENHEIT, 15 MINUTE AVERAGE, AS MEASURED BY THE TEMPERATURE INDICATOR AND RECORDER, SHALL BE MAINTAINED EXCEPT DURING PERIODS OF STARTUP AND SHUTDOWN. STARTUP IS DEFINED AS THE PERIOD FROM FLARE IGNITION TO THE TIME WHEN 1400 DEGREES FAHRENHEIT IS ACHIEVED, NOT TO EXCEED 30 MINUTES. SHUTDOWN IS THE PERIOD BEGINNING WHEN THE GAS VALVE BEGINS TO CLOSE AND ENDING WHEN THE GAS VALVE COMPLETELY SHUTS OFF, NOT TO EXCEED 30 MINUTES.
[RULE 1303(a)(1)-BACT]

8. EACH FLARE SHALL BE EQUIPPED WITH AN AUTOMATIC SHUT DOWN SYSTEM WITH A FAILURE ALARM, WHICH HAS BEEN APPROVED BY AQMD, TO AUTOMATICALLY ISOLATE THE FLARE FROM THE LANDFILL GAS SUPPLY LINE, SHUT OFF THE BLOWERS AND IMMEDIATELY NOTIFY A RESPONSIBLE PARTY OF THE SHUT DOWN.
[RULE 1303(a)(1)-BACT]

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9. THE AUTOMATIC SHUT DOWN SAFETY SYSTEM SHALL BE TESTED AT LEAST ANNUALLY FOR PROPER OPERATION AND THE RESULTS RECORDED.
[RULE 1303(a)(1)–BACT]

10. A FLOW INDICATING AND RECORDING DEVICE SHALL BE INSTALLED IN THE LANDFILL GAS SUPPLY LINE TO EACH FLARE TO MEASURE AND RECORD THE QUANTITY OF LANDFILL GAS (IN ACTUAL CUBIC FEET PER MINUTE (ACFM) BEING BURNED IN EACH FLARE.
[RULE 1303(b)(2) – OFFSET]

11. THE VOLUME OF LANDFILL GAS BURNED IN EACH OF FLARE NO. 1 OR 2 SHALL NOT EXCEED 1390 STANDARD CUBIC FEET PER MINUTE (SCFM).
[RULE 1303(b)(2)-OFFSET]

12. THE VOLUME OF LANDFILL GAS BURNED IN FLARE NO. 3 SHALL NOT EXCEED 6325 SCFM.
[RULE 1303(b)(2)-OFFSET]

13. THE HEAT INPUT THROUGH EACH OF FLARE NO. 1 OR 2 SHALL NOT EXCEED 41.7 MILLION BTU(S) PER HOUR.
[RULE 1303(b)(2)–OFFSET]

14. THE HEAT INPUT THROUGH FLARE NO. 3 SHALL NOT EXCEED 167.15 MILLION BTU(S) PER HOUR.
[RULE 1303(b)(2)–OFFSET]

15. WEEKLY READINGS OF THE METHANE CONTENT OF THE GAS AT THE INLET TO THE FLARES SHALL BE TAKEN USING AN INSTRUMENT APPROVED BY AQMD. ALL RESULTS SHALL BE RECORDED.
[RULE 1303(b)(2)–OFFSET]

16. ALL RECORDING DEVICES SHALL BE SYNCHRONIZED WITH RESPECT TO THE TIME OF DAY.
[RULE 1303(b)(2)–OFFSET]

17. EACH FLARE SHALL BE EQUIPPED WITH A SUFFICIENT NUMBER OF VIEW PORTS TO ALLOW VISUAL INSPECTION OF THE FLAME HEIGHT WITHIN THE FLARE AT ALL TIMES. THE VIEW PORTS SHALL BE LOCATED AT THE ELEVATION OF THE TEMPERATURE SENSOR LOCATIONS. SAFE AND ADEQUATE ACCESS SHALL BE PROVIDED FOR ALL VIEW PORTS UPON REQUEST BY AQMD PERSONNEL.
[RULE 217, 1303(a)(1)-BACT]

18. EACH FLARE SHALL BE OPERATED SO THAT THE FLAME IN EACH FLARE REMAINS BELOW THE HEIGHT OF THE FLARE'S OPERATING THERMOCOUPLE AT ALL TIMES.
[RULE 1303(a)(1)–BACT]

19. THE MAXIMUM FLARE SKIN TEMPERATURE AT ANY LOCATION SHALL NOT EXCEED 250 DEGREES FAHRENHEIT.
[RULE 217]

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20. OPERATION OF THIS EQUIPMENT SHALL NOT RESULT IN THE RELEASE OF RAW LANDFILL GAS INTO THE ATMOSPHERE. ANY BREAKDOWN OR MALFUNCTION WHICH RESULTS IN EMISSIONS OF RAW LANDFILL GAS SHALL BE REPORTED TO THE AQMD WITHIN ONE HOUR AFTER OCCURRENCE, AND IMMEDIATE REMEDIAL MEASURES SHALL BE UNDERTAKEN TO CORRECT THE PROBLEM AND PREVENT FURTHER EMISSIONS INTO THE ATMOSPHERE. [RULE 402, 430, 1150.1]

21. THE OWNER OR OPERATOR OF THIS EQUIPMENT SHALL CONDUCT ANNUAL PERFORMANCE TESTS IN ACCORDANCE WITH AQMD APPROVED TEST PROCEDURES AND FURNISH THE AQMD WITH WRITTEN RESULTS OF SUCH PERFORMANCE TESTS IN ACCORDANCE WITH SCAQMD RULE 1150.1 REQUIREMENTS. WRITTEN NOTICE OF THE PERFORMANCE TESTS SHALL BE PROVIDED TO THE AQMD 10 DAYS PRIOR TO THE TESTING SO THAT AN OBSERVER MAY BE PRESENT. ALL SOURCE TESTING AND ANALYTICAL METHODS SHALL BE SUBMITTED TO THE AQMD FOR APPROVAL AT LEAST 60 DAYS PRIOR TO THE TESTING.

    THE TESTS SHALL BE CONDUCTED AT THE MAXIMUM FLOW RATES ALLOWED BY THIS PERMIT, OR THE MAXIMUM FLOW RATES ACHIEVABLE, AND SHALL INCLUDE, BUT MAY NOT BE LIMITED TO, A TEST OF THE INLET GAS TO THE FLARE(S) AND THE FLARE EXHAUST(S) FOR:

    A. METHANE
    B. TOTAL NON-METHANE ORGANICS
    C. OXIDES OF NITROGEN (EXHAUST ONLY)
    D. CARBON MONOXIDE (EXHAUST ONLY)
    E. TOTAL PARTICULATES (EXHAUST ONLY)
    F. HYDROGEN SULFIDE (INLET ONLY)
    G. C1 THROUGH C3 SULFUR COMPOUNDS (SPECIATED)(INLET ONLY)
    H. CARBON DIOXIDE
    I. RULE 1150.1 TABLE 1 COMPOUNDS
    J. OXYGEN
    K. NITROGEN
    L. MOISTURE CONTENT
    M. TEMPERATURE
    N. FLOW RATE
    O. NMOC DESTRUCTION EFFICIENCY

    [RULE 1150.1, 1303(a)(1)-BACT, 1303(b)(2)-OFFSET, 1401, 40 CFR 60 SUBPART WWW, 40 CFR 63 SUBPART AAAA]

22. EMISSIONS FROM EACH OF FLARE NO. 1 OR 2 SHALL NOT EXCEED THE FOLLOWING:

POLLUTANT	LB/HR
NOX, AS NO2	2.13
SOX, AS SO2	1.41
CARBON MONOXIDE (CO)	1.1
FINE PARTICULATE MATTER (PM10)	0.75
TOTAL NON-METHANE ORGANICS AS CH4	1.44

[RULE 1303(b)(2) – OFFSETS]

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23. EMISSIONS FROM FLARE NO. 3 SHALL NOT EXCEED THE FOLLOWING:

POLLUTANT	LB/HR
NOX, AS NO2	4.18
SOX, AS SO2	6.4
CARBON MONOXIDE (CO)	10.03
FINE PARTICULATE MATTER (PM10)	3.4
TOTAL NON-METHANE ORGANICS AS CH4	6.6

[RULE 1303(b)(2) – OFFSETS]

24. OXIDE OF NITROGEN EMISSIONS FROM FLARE NO. 1 OR 2 SHALL NOT EXCEED 0.051 POUNDS PER MILLION BTU'S INLET GAS.
[RULE 1303(a)(1) – BACT]

25. OXIDE OF NITROGEN EMISSIONS FROM FLARE NO. 3 SHALL NOT EXCEED 0.025 POUNDS PER MILLION BTU'S INLET GAS.
[RULE 1303(a)(1) – BACT]

26. CARBON MONOXIDE EMISSIONS FROM FLARE NO. 1 OR 2 SHALL NOT EXCEED 0.027 POUNDS PER MILLION BTU'S INLET GAS.
[RULE 1303(a)(1) – BACT]

27. CARBON MONOXIDE EMISSIONS FROM FLARE NO. 3 SHALL NOT EXCEED 0.06 POUNDS PER MILLION BTU'S INLET GAS.
[RULE 1303(a)(1) – BACT]

Emissions and Requirements:

28. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

NMOC: 20 PPMV OR 98 WEIGHT PERCENT REDUCTION, RULE 1150.1
NMOC: 20 PPMV OR 98 WEIGHT PERCENT REDUCTION, 40 CFR 60 SUBPART WWW
NMOC: 20 PPMV OR 98 WEIGHT PERCENT REDUCTION, 40 CFR 63 SUBPART AAAA
CO: 2000 PPM, RULE 407
PM: 0.1 GR/SCF, RULE 409
PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

FACILITY PERMIT TO OPERATE
U S A WASTE OF CAL :EL SOBRANTE LANDFILL

PERMIT TO OPERATE

Permit No. F91987
A/N 463732

Equipment Description:

LANDFILL GAS CONDENSATE, LEACHATE, GROUNDWATER AND SUBDRAIN WATER COLLECTION, STORAGE AND TREATMENT SYSTEM CONSISTING OF:

1. CONDENSATE COLLECTION SYSTEM

   A FOUR (4) CONDENSATE SUMPS

   B. CONDENSATE TANK (CHS-19), UNDERGROUND, EPOXY LINED CARBON STEEL, 300 GALLON CAPACITY, 2'-6" DIA. BY 8' HIGH, LOCATED WITHIN OPEN FIBERGLASS TANK AT THE FLARE STATION, COLLECTING CONDENSATE FROM PARTICULATE FILTER/MOISTURE KNOCKOUT AND OTHER SOURCES, VENTED TO GAS HEADER.

   C. CONDENSATE COLLECTION TANK (T-101), UNDERGROUND, DOUBLE WALLED, FIBERGLASS REINFORCED PLASTIC, 1000 GALLON CAPACITY, 4' OUTSIDE DIA. BY 11' LONG, VENTED TO GAS HEADER.

2. LCRS COLLECTION SYSTEM

   A. FIVE (5) SUMPS

   B. LEACHATE LINES SERVING THE LCRS SYSTEM

3. GROUNDWATER/SUBDRAIN WATER COLLECTION SYSTEM

   A. GROUNDWATER EXTRACTION WELLS.

   B. SUBDRAIN LINES SERVING GROUNDWATER SYSTEM

4. LIQUIDS STORAGE SYSTEM.

   A. TANK (T-104A), LEACHATE, ABOVEGROUND, 13000 GALLON CAPACITY, 12" DIA. BY 17'-2" HIGH, VENTED TO GAS HEADER

   B. TANK (T-104B), LEACHATE, ABOVEGROUND, 13000 GALLON CAPACITY, 12, DIA. BY 17'-2" HIGH, VENTED TO GAS HEADER

   C. TANK (T-104C), LEACHATE, ABOVEGROUND, 5000 GALLON CAPACITY, 10. DIA, BY 8'-10" HIGH, VENTED TO GAS HEADER

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D. TANK (T-104C), ABOVEGROUND, CROSS LINKED POLYETHYLENE, 13,000 GALLON CAPACITY, 12'-0" DIA. BY 17'-2" HIGH, VENTED TO GAS HEADER, TO BE INSTALLED WHEN NEEDED TO REPLACE T-104C (5000 GALLON).

5. ASSOCIATED PUMPS, DRAIN LINES AND PIPING.

6. UP TO FOUR TEMPORARY TANKS, BAKER TYPE.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]

2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]

3. THIS EQUIPMENT SHALL BE OPERATED BY PERSONNEL PROPERLY TRAINED IN ITS OPERATION.
[RULE 204]

4. CONSTRUCTION SHALL NOT BE CONDUCTED BETWEEN THE HOURS OF 6 P.M. AND 7 A.M. OR ON SATURDAYS, SUNDAYS OR LEGAL HOLIDAYS, UNLESS OTHERWISE APPROVED BY THE SCAQMD.
[RULE 402, 1150]

5. CONSTRUCTION SHALL NOT BE CONDUCTED ON DAYS WHEN THE SCAQMD FORECASTS FIRST, SECOND OR THIRD STAGE EPISODES FOR AREA NO. 22, OR WHEN THE SCAQMD REQUIRES COMPANIES IN AREA NO. 22 TO IMPLEMENT THEIR FIRST, SECOND OR THIRD STAGE EPISODE PLANS. EPISODE FORECASTS FOR THE FOLLOWING DAY CAN BE OBTAINED BY CALLING (800) CUT-SMOG.
[RULE 1150]

6. CONSTRUCTION SHALL NOT BE CONDUCTED WHEN THE WIND SPEED IS GREATER THAN 15 M.P.H. AVERAGE (OVER 15 MINUTES) OR THE WIND SPEED INSTANTANEOUSLY EXCEEDS 25 M.P.H.
[RULE 402, 403, 1150]

7. THE CONSTRUCTION OF ANY PIPING OR TRENCH WHICH EXPOSES LANDFILL TRASH TO THE ATMOSPHERE SHALL BE STAGED SUCH THAT NO MORE THAN ONE HUNDRED (100) LINEAR FEET OF TRENCH IS EXPOSED AT ANY TIME PRIOR TO BACKFILLING.
[RULE 402, 1150]

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8. TRENCHES AND EXPOSED LANDFILL TRASH SHALL BE COMPLETELY COVERED TO PREVENT ANY EMISSIONS OF LANDFILL GAS TO THE ATMOSPHERE WHENEVER WORK IS NOT ACTIVELY IN PROGRESS. THE COVER SHALL INCLUDE, BUT MAY NOT BE LIMITED TO A MINIMUM OF 6 INCHES OF CLEAN DIRT, APPROVED FOAM, OR HEAVY-DUTY PLASTIC SHEETING. FOAM BY ITSELF SHALL NOT BE USED AS A NIGHT COVER IF IT IS RAINING OR RAIN IS PREDICTED BY THE NATIONAL WEATHER SERVICE PRIOR TO THE NEXT SCHEDULED WORKING DAY.
[RULE 402, 1150]

9. FOR PURPOSES OF THIS PERMIT, CONSTRUCTION SPOILS ARE LANDFILL TRASH, MATERIAL THAT IS MIXED WITH LANDFILL TRASH, MATERIAL THAT HAS BEEN IN CONTACT WITH LANDFILL TRASH, OR ODOROUS MATERIAL THAT IS REMOVED FROM WELL HOLES OR TRENCHES.
[RULE 1150]

10. CONSTRUCTION SPOILS AND ALL WORKING AREAS BEING ACTIVELY USED FOR TRUCK AND CONSTRUCTION EQUIPMENT TRAFFICKING SHALL BE MAINTAINED IN A MOIST CONDITION TO MINIMIZE DUST AND EMISSIONS.
[RULE 401, 403, 1150]

11. ALL CONSTRUCTION SPOILS SHALL BE TRANSPORTED TO THE ACTIVE WORKING FACE OF THE LANDFILL WITHIN ONE HOUR OF GENERATION OR AS DEEMED NECESSARY BY THE DISTRICT PERSONNEL.
[RULE 402, 1150]

12. DURING TRANSPORT OF THE CONSTRUCTION SPOILS, NO MATERIAL SHALL EXTEND ABOVE THE SIDES OR REAR OF THE VEHICLE HAULING THE MATERIAL.
[RULE 1150]

13. THE EXTERIOR OF THE VEHICLE (INCLUDING THE TIRES) HAULING THE CONSTRUCTION SPOILS SHALL BE CLEANED OFF PRIOR TO LEAVING THE WORKING SITE.
[RULE 1150]

14. IF A DISTINCT ODOR LEVEL (LEVEL III OR GREATER) RESULTING FROM THE CONSTRUCTION IS DETECTED AT OR BEYOND THE PROPERTY LINE, ALL WORK SHALL CEASE UNTIL THE ODOR SOURCES ARE DETERMINED AND ELIMINATED. ODOR LEVELS SHALL BE DETERMINED BY SCAQMD PERSONNEL OR ON-SITE SAFETY COORDINATOR IN THE ABSENCE OF SCAQMD PERSONNEL.
[RULE 402, 1150]

15. DURING CONSTRUCTION, IF A CONSIDERABLE NUMBER OF COMPLAINTS ARE RECEIVED, ALL WORK SHALL CEASE AND APPROVED MITIGATION MEASURES SHALL BE IMPLEMENTED IMMEDIATELY. WORK SHALL NOT RESUME UNTIL THE EMISSIONS CAUSING THE COMPLAINTS ARE MITIGATED AND THE APPROVAL TO RESUME WORK IS RECEIVED FROM THE SCAQMD.
[RULE 402, 1150]

16. MITIGATION MEASURES, OTHER THAN THOSE INDICATED IN THESE CONDITIONS, WHICH ARE DEEMED APPROPRIATE BY SCAQMD PERSONNEL AS NECESSARY TO PROTECT THE COMFORT, REPOSE, HEALTH OR SAFETY OF THE PUBLIC SHALL BE IMPLEMENTED UPON REQUEST.
[RULE 402, 1150]

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17. THE SCAQMD SHALL BE NOTIFIED IN WRITING AT LEAST ONE (1) WEEK IN ADVANCE WHEN AN ADDITIONAL LINES OR PIPING WILL BE INSTALLED. THE PROPOSED LOCATIONS SHALL BE IDENTIFIED ON A DRAWING WHICH SHOWS THE ENTIRE SYSTEM AND SHALL BE DESCRIBED IN WRITING. ESTIMATED PIPE LENGTHS, DIAMETERS AND LAYOUTS SHALL BE SUPPLIED TO THE SCAQMD IN THIS ADVANCE NOTIFICATION.
[RULE 1150.1]

18. THE PERMITTEE SHALL SUBMIT ANNUAL AS-BUILT DRAWINGS IN DUPLICATE TO THE SCAQMD. AS- BUILT DRAWINGS SHALL DEPICT ALL EQUIPMENT CONSTRUCTED TO DATE.
[RULE 1150.1]

19. ALL CONDENSATE, LEACHATE, AND CONTAMINATED GROUNDWATER/SUBDRAIN WATER COLLECTED SHALL BE PROPERLY DISPOSED OR TREATED.
[RULE 402]

20. ALL PERMANENT TANKS SHALL BE VENTED TO THE LANDFILL GAS COLLECTION SYSTEM.
[RULE 402, 1303(a)(1)-BACT]

21. ALL CONNECTIONS, VALVES AND OPENINGS SHALL BE PROPERLY SEALED OR CLOSED SO AS TO PREVENT RAW LANDFILL GAS AND/OR ORGANIC VAPORS FROM ENTERING INTO THE ATMOSPHERE.
[RULE 402, 1303(a)(1)-BACT]

FACILITY PERMIT TO OPERATE
U S A WASTE OF CAL :EL SOBRANTE LANDFILL

PERMIT TO OPERATE

Permit No. F91988
A/N 463733

Equipment Description:

LANDFILL GAS COLLECTION SYSTEM CONSISTING OF:

1. CELL I LANDFILL COLLECTION SYSTEM:

   A. FOUR (4) HORIZONTAL COLLECTOR LINES, EACH WITH ALTERNATING 10'-0" LENGTHS OF 12" DIA. AND 15" DIA. CORRUGATED STEEL PIPING IN TRENCHES 2' W. BY 5' DEEP, FILLED WITH NO. 2 GRAVEL.
   B. THIRTEEN (13) VERTICAL WELLS, 4" DIA. AT VARYING DEPTHS RANGING FROM 20 FEET TO 50 FEET.

2. CELL II LANDFILL GAS COLLECTION SYSTEM:

   A. SEVEN (7) HORIZONTAL COLLECTOR LINES, ADS POLYETHYLENE PIPING, 12" DIA., WITH VARYING LENGTHS FROM 320 TO 660 FEET.
   B. SIX (6) VERTICAL WELLS, 4" DIA. AT VARYING DEPTHS RANGING FROM 25 FEET TO 120 FEET.
   C. SIX (6) VERTICAL WELLS, TO BE INSTALLED AS NEEDED.

3. CELL III LANDFILL GAS COLLECTION SYSTEM:

   A. TWO (2) HORIZONTAL COLLECTOR LINES, ADS POLYETHYLENE OR CORRUGATED HDPE PIPING, 6" DIA., WITH VARYING LENGTHS FROM 970 TO 1080 FEET.
   B. FIFTEEN (15) HORIZONTAL COLLECTOR LINES, CORRUGATED HDPE PIPING, 10" DIA., WITH VARYING LENGTHS FROM 300 TO 1660 FEET
   C. ONE (1) HORIZONTAL COLLECTOR LINE, ADS POLYETHYLENE PIPING, 12" DIA. BY 1180' LONG.
   D. TWO (2) HORIZONTAL COLLECTOR LINES, CORRUGATED HDPE, 12" DIA., WITH VARYING LENGTHS FROM 880 TO 1220 FEET.
   E. TWO HORIZONTAL COLLECTOR LINES, CORRUGATED HDPE, 6" DIA., WITH VARYING LENGTHS FROM 1090 TO 1160 FEET.
   F. SEVENTEEN (17) VERTICAL WELLS, 4" DIAM. AT VARYING DEPTHS RANGING FROM 25 FEET TO 150 FEET.
   G. SIX (6) VERTICAL WELLS, TO BE INSTALLED AS NEEDED.

4. CELL IV LANDFILL GAS COLLECTION SYSTEM:

   A. TWENTY-NINE (29) HORIZONTAL COLLECTOR LINES, HDPE, 6" DIA. WITH VARYING LENGTHS FROM 225 TO 1900 FEET.
   B. SIXTEEN (16) VERTICAL WELLS, PVC, 6" DIA. WITH VARYING DEPTHS FROM 13 TO 1500 FEET.
   C. TWO (2) VERTICAL WELLS, TO BE INSTALLED AS NEEDED

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5. CELLS V, VI, AND VII STAGE 1 LANDFILL GAS COLLECTION SYSTEM:

   TWENTY (20) HORIZONTAL COLLECTOR LINES, HDPE, 6" DIA.WITH VARYING LENGTHS FROM 35 TO 1500 FEET.

6. CELLS VII STAGE 2, VIII, AND IX LANDFILL GAS COLLECTION SYSTEM:

   THIRTY-TWO (32) HORIZONTAL COLLECTOR LINES, HDPE, 6" DIA.WITH VARYING LENGTHS FROM 225 TO 1900 FEET.

7. GAS TRANSMISSION HEADER AND LATERAL PIPING SYSTEM SERVING THE VERTICAL AND HORIZONTAL WELLS TO DIRECT THE LANDFILL GAS TO THE PROCESSING/CONTROL SYSTEM.

8. FIVE (5) MONITORING SUMPS, 30" DIAM. AT VARYING DEPTHS, SUMPS MAY BE CONNECTED TO SYSTEM AS NEEDED.

9. TWO HUNDRED (200) ADDITIONAL VERTICAL WELLS AS NEEDED.

10. FIFTY (50) ADDITIONAL HORIZONTAL COLLECTORS AS NEEDED.

Conditions:

1) OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
   [RULE 204]

2) THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
   [RULE 204]

3) THIS EQUIPMENT SHALL BE OPERATED AND MAINTAINED BY PERSONNEL PROPERLY TRAINED IN ITS OPERATION.
   [RULE 204]

4) WELL DRILLING, DRIVING AND/OR TRENCHING SHALL NOT BE CONDUCTED BETWEEN THE HOURS OF 6 P.M. AND 7 A.M. OR ON SATURDAYS, SUNDAYS OR LEGAL HOLIDAYS, UNLESS OTHERWISE APPROVED BY THE SCAQMD.
   [RULE 402, 1150]

5) WELL DRILLING, DRIVING, AND/OR TRENCHING SHALL NOT BE CONDUCTED ON DAYS WHEN THE SCAQMD FORECASTS FIRST, SECOND OR THIRD STAGE EPISODES FOR AREA NO. 22, OR WHEN THE SCAQMD REQUIRES COMPANIES IN AREA NO. 22 TO IMPLEMENT THEIR FIRST, SECOND OR THIRD STAGE EPISODE PLANS. EPISODE FORECASTS FOR THE FOLLOWING DAY CAN BE OBTAINED BY CALLING (800) CUT-SMOG.
   [RULE 1150]

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6) WELL DRILLING, DRIVING AND/OR TRENCHING SHALL NOT BE CONDUCTED WHEN THE WIND SPEED IS GREATER THAN 15 M.P.H. AVERAGE (OVER 15 MINUTES) OR THE WIND SPEED INSTANTANEOUSLY EXCEEDS 25 M.P.H.
[RULE 402, 403, 1150]

7) EACH WELL SHALL BE COMPLETED AND CAPPED THE SAME DAY ITS CONSTRUCTION COMMENCES UNLESS THE WELL HOLE IS COMPLETELY SEALED AND THE WELL CASING IS CONNECTED TO THE GAS COLLECTION HEADER TO PREVENT ANY LANDFILL GAS FROM ESCAPING INTO THE ATMOSPHERE.
[RULE 402, 1150.1]

8) THE CONSTRUCTION OF ANY PIPING OR WELL TRENCH WHICH EXPOSES LANDFILL TRASH TO THE ATMOSPHERE SHALL BE STAGED SUCH THAT NO MORE THAN ONE HUNDRED (100) LINEAR FEET OF TRENCH IS EXPOSED AT ANY TIME PRIOR TO BACKFILLING.
[RULE 402, 1150]

9) WELL HOLES, TRENCHES, AND EXPOSED LANDFILL TRASH SHALL BE COMPLETELY COVERED TO PREVENT ANY EMISSIONS OF LANDFILL GAS TO THE ATMOSPHERE WHENEVER WORK IS NOT ACTIVELY IN PROGRESS. THE COVER SHALL INCLUDE, BUT MAY NOT BE LIMITED TO A MINIMUM OF 6 INCHES OF CLEAN DIRT, APPROVED FOAM, OR HEAVY-DUTY PLASTIC SHEETING. FOAM BY ITSELF SHALL NOT BE USED AS A NIGHT COVER IF IT IS RAINING OR RAIN IS PREDICTED BY THE NATIONAL WEATHER SERVICE PRIOR TO THE NEXT SCHEDULED WORKING DAY.
[RULE 402, 1150]

10) FOR PURPOSES OF THIS PERMIT, CONSTRUCTION SPOILS ARE LANDFILL TRASH, MATERIAL THAT IS MIXED WITH LANDFILL TRASH, MATERIAL THAT HAS BEEN IN CONTACT WITH LANDFILL TRASH, OR ODOROUS MATERIAL THAT IS REMOVED FROM WELL HOLES OR TRENCHES.
[RULE 1150]

11) CONSTRUCTION SPOILS AND ALL WORKING AREAS BEING ACTIVELY USED FOR TRUCK AND CONSTRUCTION EQUIPMENT TRAFFICKING SHALL BE MAINTAINED IN A MOIST CONDITION TO MINIMIZE DUST AND EMISSIONS.
[RULE 401, 403, 1150]

12) ALL CONSTRUCTION SPOILS SHALL BE TRANSPORTED TO THE ACTIVE WORKING FACE OF THE LANDFILL WITHIN ONE HOUR OF GENERATION OR AS DEEMED NECESSARY BY THE DISTRICT PERSONNEL.
[RULE 402, 1150]

13) DURING TRANSPORT OF THE CONSTRUCTION SPOILS, NO MATERIAL SHALL EXTEND ABOVE THE SIDES OR REAR OF THE VEHICLE HAULING THE MATERIAL.
[RULE 1150]

14) THE EXTERIOR OF THE VEHICLE (INCLUDING THE TIRES) HAULING THE CONSTRUCTION SPOILS SHALL BE CLEANED OFF PRIOR TO LEAVING THE WORKING SITE.
[RULE 1150]

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15) IF A DISTINCT ODOR LEVEL (LEVEL III OR GREATER) RESULTING FROM THE CONSTRUCTION IS DETECTED AT OR BEYOND THE PROPERTY LINE, ALL WORK SHALL CEASE UNTIL THE ODOR SOURCES ARE DETERMINED AND ELIMINATED. ODOR LEVELS SHALL BE DETERMINED BY SCAQMD PERSONNEL OR ON-SITE SAFETY COORDINATOR IN THE ABSENCE OF SCAQMD PERSONNEL.
[RULE 402, 1150]

16) DURING CONSTRUCTION, IF A CONSIDERABLE NUMBER OF COMPLAINTS ARE RECEIVED, ALL WORK SHALL CEASE AND APPROVED MITIGATION MEASURES SHALL BE IMPLEMENTED IMMEDIATELY. WORK SHALL NOT RESUME UNTIL THE EMISSIONS CAUSING THE COMPLAINTS ARE MITIGATED AND THE APPROVAL TO RESUME WORK IS RECEIVED FROM THE SCAQMD.
[RULE 402, 1150]

17) MITIGATION MEASURES, OTHER THAN THOSE INDICATED IN THESE CONDITIONS, WHICH ARE DEEMED APPROPRIATE BY SCAQMD PERSONNEL AS NECESSARY TO PROTECT THE COMFORT, REPOSE, HEALTH OR SAFETY OF THE PUBLIC SHALL BE IMPLEMENTED UPON REQUEST.
[RULE 402, 1150]

18) EACH HORIZONTAL GAS COLLECTION WELL SHALL BE CONNECTED TO AN OPERATING LANDFILL GAS HEADER OR THE ENDS OF THE WELL SHALL BE SEALED WITH BLIND FLANGES OR OTHER TYPES OF SEALS APPROVED BY THE SCAQMD AS SOON AS THE WELL IS INSTALLED.
[RULE 1150.1]

19) EACH VERTICAL AND HORIZONTAL WELL HEAD SHALL BE EQUIPPED WITH A SHUT-OFF VALVE AND A SAMPLING PORT.
[RULE 1150, 1150.1]

20) UNTIL CONNECTED TO AN OPERATING LANDFILL GAS COLLECTION SYSTEM, EACH COMPLETED WELL SHALL BE CAPPED AND ITS GAS CONTROL VALVE CLOSED TO AVOID VENTING LANDFILL GAS TO THE ATMOSPHERE.
[RULE 402, 1150, 1150.1]

21) EACH WELL SHALL BE SECURELY SEALED TO PREVENT ANY EMISSIONS OF LANDFILL GAS FROM AROUND THE WELL CASING.
[RULE 402, 1150, 1150.1]

22) ALL OPENINGS OF THIS SYSTEM SHALL BE PROPERLY COVERED AND SEALED TO PREVENT ANY VAPORS FROM ENTERING INTO THE ATMOSPHERE.
[RULE 402, 1150, 1150.1]

23) ALL GASES COLLECTED BY THIS SYSTEM SHALL BE VENTED TO A COMBUSTION OR PROCESSING FACILITY WHICH IS IN FULL USE, CAN ADEQUATELY PROCESS THE VOLUME OF GAS COLLECTED, AND HAS BEEN ISSUED A VALID PERMIT TO CONSTRUCT OR OPERATE BY THE SCAQMD.
[RULE 1150.1, 1303(a)(1)-BACT)]

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24) THE OPERATION OF THIS EQUIPMENT SHALL NOT RESULT IN THE RELEASE OF ANY RAW LANDFILL GAS OR CONDENSATE INTO THE ATMOSPHERE.
[RULE 402, 1150.1]

25) THE SCAQMD SHALL BE NOTIFIED IN WRITING AT LEAST ONE (1) WEEK IN ADVANCE WHEN AN ADDITIONAL WELL OR SET OF WELLS AND THEIR ASSOCIATED PIPING WILL BE INSTALLED. THE PROPOSED WELL LOCATIONS AND CONNECTING PIPING SHALL BE IDENTIFIED ON A DRAWING WHICH SHOWS THE ENTIRE GAS COLLECTION SYSTEM AND SHALL BE DESCRIBED IN WRITING. ESTIMATED GAS COLLECTION VOLUME, WELL DEPTHS, PIPE LENGTHS, DIAMETERS AND LAYOUTS SHALL BE SUPPLIED TO THE SCAQMD IN THIS ADVANCE NOTIFICATION.
[RULE 1150.1]

26) THE PERMITTEE SHALL SUBMIT ANNUAL AS-BUILT DRAWINGS IN DUPLICATE TO THE SCAQMD. AS- BUILT DRAWINGS SHALL DEPICT ALL WELLS CONSTRUCTED TO DATE.
[RULE 1150.1]

Emissions and Requirements:

27) THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

GASEOUS EMISSIONS: RULE 1150.1
GASEOUS EMISSIONS: 40 CFR 60 SUBPART WWW
GASEOUS EMISSIONS: 40 CFR 63 SUBPART AAAA

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RULE 219 EQUIPMENT

Equipment Description:

RULE 219 EXEMPT EQUIPMENT, COATING EQUIPMENT, PORTABLE, ARCHITECTURAL COATINGS.

Periodic Monitoring:

1. THE OPERATOR SHALL KEEP RECORDS, IN A MANNER APPROVED BY THE DISTRICT, FOR THE FOLLOWING PARAMETER(S) OR ITEM(S):

   FOR ARCHITECTURAL APPLICATIONS WHERE NO THINNERS, REDUCERS, OR OTHER VOC CONTAINING MATERIALS ARE ADDED, MAINTAIN SEMI-ANNUAL RECORDS OF ALL COATINGS CONSISTING OF (a) COATING TYPE, (b) VOC CONTENT AS SUPPLIED IN GRAMS PER LITER (g/l) OF MATERIALS FOR LOW-SOLIDS COATINGS, (c) VOC CONTENT AS SUPPLIED IN g/l OF COATING, LESS WATER AND EXEMPT SOLVENT, FOR OTHER COATING.

   FOR OTHER ARCHITECTURAL APPLICATIONS WHERE THINNERS, REDUCERS, OR OTHER VOC CONTAINING MATERIALS ARE ADDED, MAINTAIN DAILY RECORDS FOR EACH COATING CONSISTING OF (a) COATING TYPE, (b) VOC CONTENT AS APPLIED IN GRAMS PER LITER (g/l) OF MATERIALS USED FOR LOW-SOLIDS COATINGS, (c) VOC CONTENT AS APPLIED IN g/l OF COATING, LESS WATER AND EXEMPT SOLVENT, FOR OTHER COATING.

   [RULE 3004 (a) (4)]

Emissions and Requirements:

2. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATION:

   VOC: RULE 1113, SEE APPENDIX B FOR EMISSION LIMITS
   VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS

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RULE 219 EQUIPMENT

Equipment Description:

RULE 219 EXEMPT EQUIPMENT, HAND WIPING OPERATIONS.

Emissions and Requirements:

1. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATION:

   VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS

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RULE 219 EQUIPMENT

Equipment Description:

RULE 219 EXEMPT EQUIPMENT, OPEN TOP-VAPOR DEGREASERS, HEATED, < 1.0 FT2.

Periodic Monitoring:

1. THE OPERATOR SHALL PERFORM A MONTHLY INSPECTION OF THE COVER TO ASSURE COMPLIANCE WITH RULE 1122 (c)(2)(A).
2. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH RULE 1122 (e)(6) REQUIREMENTS BY MEASURING THE TEMPERATURE AT THE CENTER OF THE AIR BLANKET ONCE A MONTH IF THE FREEBOARD REFRIGERATION DEVICE IS USED, OR MEASURING THE TEMPERATURE AT THE CENTER OF THE SUPERHEATED SOLVENT VAPOR ZONE ONCE A MONTH IF SUPERHEATED VAPOR SYSTEM IS USED. IN ADDITION TO THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS FACILITY PERMIT, THE OPERATOR SHALL KEEP RECORDS OF THE CORRECTIVE ACTIONS TAKEN WHEN THE MONITORING DEMONSTRATE NON COMPLIANCE.

Emissions and Requirements:

3. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

   VOC: RULE 1122