



FACILITY PERMIT TO OPERATE

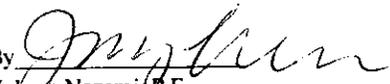
**OC WASTE & RECYCLING, SANTIAGO
3099 SANTIAGO CYN RD
ORANGE, CA 92862**

NOTICE

IN ACCORDANCE WITH RULE 206, THIS PERMIT TO OPERATE OR A COPY THEREOF MUST BE KEPT AT THE LOCATION FOR WHICH IT IS ISSUED.

THIS PERMIT DOES NOT AUTHORIZE THE EMISSION OF AIR CONTAMINANTS IN EXCESS OF THOSE ALLOWED BY DIVISION 26 OF THE HEALTH AND SAFETY CODE OF THE STATE OF CALIFORNIA OR THE RULES OF THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT. THIS PERMIT SHALL NOT BE CONSTRUED AS PERMISSION TO VIOLATE EXISTING LAWS, ORDINANCES, REGULATIONS OR STATUTES OF ANY OTHER FEDERAL, STATE OR LOCAL GOVERNMENTAL AGENCIES.

Barry R. Wallerstein, D. Env.
EXECUTIVE OFFICER

By 
Mohsen Nazemi, P.E.
Deputy Executive Officer
Engineering & Compliance



FACILITY PERMIT TO OPERATE OC WASTE & RECYCLING, SANTIAGO

TABLE OF CONTENTS

Section	Description	Revision #	Date Issued
A	Facility Information	1	08/31/2010
B	RECLAIM Annual Emission Allocation	1	08/31/2010
C	Facility Plot Plan	TO BE DEVELOPED	
D	Facility Description and Equipment Specific Conditions	2	08/31/2010
E	Administrative Conditions	1	08/31/2010
F	RECLAIM Monitoring and Source Testing Requirements	1	08/31/2010
G	Recordkeeping and Reporting Requirements for RECLAIM Sources	1	08/31/2010
H	Permit To Construct and Temporary Permit to Operate	1	08/31/2010
I	Compliance Plans & Schedules	1	08/31/2010
J	Air Toxics	1	08/31/2010
K	Title V Administration	2	08/31/2010
Appendix			
A	NOx and SOx Emitting Equipment Exempt From Written Permit Pursuant to Rule 219	1	08/31/2010
B	Rule Emission Limits	1	08/31/2010



AQMD

FACILITY PERMIT TO OPERATE OC WASTE & RECYCLING, SANTIAGO

SECTION A: FACILITY INFORMATION

LEGAL OWNER &/OR OPERATOR: OC WASTE & RECYCLING, SANTIAGO

LEGAL OPERATOR (if different than owner):

EQUIPMENT LOCATION: 3099 SANTIAGO CYN RD
ORANGE, CA 92862

MAILING ADDRESS: 320 N FLOWER ST #400
SANTA ANA, CA 92703

RESPONSIBLE OFFICIAL: JANICE V. GOSS

TITLE: DIRECTOR

TELEPHONE NUMBER: (714) 834-4122

CONTACT PERSON: KEVIN KONDRU

TITLE: MANAGER, ENVIRONMENTAL SERVICES

TELEPHONE NUMBER: (714) 834-4056

INITIAL TITLE V PERMIT ISSUED: April 28, 2004

TITLE V PERMIT EXPIRATION DATE: April 27, 2009

TITLE V	RECLAIM
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YES	NOx:	NO
	SOx:	NO
	CYCLE:	0
	ZONE:	COASTAL



SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 Copley Drive, Diamond Bar, CA 91765

Section B	Page: 1
Facility ID:	052743
Revision #:	1
Date:	August 31, 2010

**FACILITY PERMIT TO OPERATE
OC WASTE & RECYCLING, SANTIAGO**

SECTION B: RECLAIM ANNUAL EMISSION ALLOCATION

NOT APPLICABLE



SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 Copley Drive, Diamond Bar, CA 91765





**FACILITY PERMIT TO OPERATE
OC WASTE & RECYCLING, SANTIAGO**

SECTION C: FACILITY PLOT PLAN

(TO BE DEVELOPED)



SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
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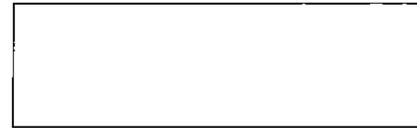
**FACILITY PERMIT TO OPERATE
OC WASTE & RECYCLING, SANTIAGO**

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 Construct and 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 that the equipment is subject to. Also included is the rule origin and authority of each emission limit and permit condition.



SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 Copley Drive, Diamond Bar, CA 91765





FACILITY PERMIT TO OPERATE OC WASTE & RECYCLING, SANTIAGO

PERMITTED EQUIPMENT LIST

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

Application Number	Permit to Operate Number	Equipment Description	Page No.
338776	F13641	LANDFILL GAS COLLECTION (>50 WELLS)	4
441050	F77552	LANDFILL CONDENSATE/LEACHATE/COLLECTION	9
494357	G9764	FLARE, ENCLOSED LANDFILL/DIGESTER GAS	12

NOTE: EQUIPMENT LISTED ABOVE THAT HAVE NO CORRESPONDING PERMITS TO OPERATE NUMBER ARE ISSUED PERMITS TO CONSTRUCT. THE ISSUANCE OR DENIAL OF THEIR PERMITS TO OPERATE IS SUBJECT TO ENGINEERING FINAL REVIEW. ANY OTHER 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.



FACILITY PERMIT TO OPERATE OC WASTE & RECYCLING, SANTIAGO

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 LANDFILL GAS CONTAINING SULFUR COMPOUNDS IN EXCESS OF 150 PPMV CALCULATED AS HYDROGEN SULFIDE AVERAGED DAILY.
[RULE 431.1]

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

GASEOUS EMISSIONS: 1150.1
GASEOUS EMISSIONS: 40 CFR 63 SUBPART AAAA



FACILITY PERMIT TO OPERATE OC WASTE & RECYCLING, SANTIAGO

PERMIT TO OPERATE

Permit No. F13641
A/N 338776

Equipment Description:

LANDFILL GAS COLLECTION SYSTEM CONSISTING OF:

1. PHASE I:

- A. TRENCH NUMBER (A-1), 2'-0" W. X 1200'-0" L X 4'-0" D
- B. TRENCH NUMBER (B-1), 2'-0" W. X 1250'-0" L X 4'-0" D
- C. TRENCH NUMBER (C-1), 2'-0" W. X 1125'-0" L X 4'-0" D
- D. TRENCH NUMBER (D-1), 2'-0" W. X 925'-0" L X 4'-0" D
- E. TRENCH NUMBER (E-1), 2'-0" W. X 750'-0" L X 4'-0" D
- F. TRENCH NUMBER (F-1), 2'-0" W. X 750'-0" L X 4'-0" D

EACH FILLED WITH NO. 2 GRAVEL AND ALTERNATING 10'-0" LENGTHS OF 12" DIAMETER AND 15" DIAMETER POLYETHYLENE COATED CORRUGATED STEEL PIPE.

- G. TRENCH NUMBER (G-1), 3'-0" W. X 2000'-0" L. X 5'-0" D

FILLED WITH NO. 2 GRAVEL AND ALTERNATING 10'-0" LENGTHS OF 10" DIAMETER AND 12" DIAMETER POLYETHYLENE COATED CORRUGATED STEEL PIPE, STARTING AT 1100 FOOT ELEVATION DOWN TO 950 FOOT ELEVATION, WITH 14 MIL POLYETHYLENE LINER

2. PHASE II:

- A. TRENCH NUMBER (A-2), 2'-0" W. X 1500'-0" L X 4'-0" D
- B. TRENCH NUMBER (B-2), 2'-0" W. X 1650'-0" L X 4'-0" D
- C. TRENCH NUMBER (C-2), 2'-0" W. X 1650'-0" L X 4'-0" D
- D. TRENCH NUMBER (D-2), 2'-0" W. X 1500'-0" L X 4'-0" D
- E. TRENCH NUMBER (E-2), 2'-0" W. X 1400'-0" L X 4'-0" D
- F. TRENCH NUMBER (F-2), 2'-0" W. X 1500'-0" L X 4'-0" D

EACH FILLED WITH NO. 2 GRAVEL AND ALTERNATING 10'-0" LENGTHS OF 12" DIAMETER AND 15" DIAMETER POLYETHYLENE COATED CORRUGATED STEEL PIPE.

3. PHASE III:

- A. TRENCH NUMBER (A-3), 2'-0" W. X 1000'-0" L X 4'-0" D
- B. TRENCH NUMBER (B-3), 2'-0" W. X 1000'-0" L X 4'-0" D
- C. TRENCH NUMBER (C-3), 2'-0" W. X 1000'-0" L X 4'-0" D
- D. TRENCH NUMBER (D-3), 2'-0" W. X 1000'-0" L X 4'-0" D
- E. TRENCH NUMBER (E-3), 2'-0" W. X 1000'-0" L X 4'-0" D
- F. TRENCH NUMBER (F-3), 2'-0" W. X 1000'-0" L X 4'-0" D

EACH FILLED WITH NO. 2 GRAVEL 8" HDPE PERFORATED PIPE.



FACILITY PERMIT TO OPERATE OC WASTE & RECYCLING, SANTIAGO

4. SEVENTY (70) VERTICAL LANDFILL GAS COLLECTION WELLS (EW-1 THRU EW-70), 24" DIAMETER BOREHOLE, RANGING FROM 40' TO 100' DEEP, EACH WITH 4" DIAMETER HDPE SLOTTED CASING.
5. LATERALS AND HEADERS, HDPE AND PVC, CONNECTING THE VERTICAL AND HORIZONTAL WELLS TO A GAS COMBUSTION FACILITY.
6. SIXTEEN (16) PHASE IV HORIZONTAL COLLECTORS (A4, B4, C4, D4, E4, F4, G4, H4, I4, J4, K4, L4, M4, N4, O4, P4), PERFORATED HDPE IN GRAVEL TRENCHES 4' DEEP AND 2' WIDE, WELL HEADS AND ASSOCIATED LATERAL PIPING TO CONNECT HORIZONTAL COLLECTORS WITH THE HEADER, TO BE ADDED AS NEEDED.
7. SIXTY-TWO (62) VERTICAL LANDFILL GAS COLLECTION WELLS (EW-71 THRU EW-132), 24" DIAMETER BOREHOLE, RANGING FROM 40' TO 100' DEEP, EACH WITH 4" DIAMETER HDPE SLOTTED CASING, TO BE ADDED 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. ALL GASES COLLECTED BY THIS SYSTEM SHALL BE VENTED TO A GAS PROCESSING SYSTEM 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 AQMD.
[RULE 1150.1, 1303(a)(1)-BACT]
5. PRIOR TO CONNECTING ANY VAPOR EXTRACTION LINE TO THE COLLECTION SYSTEM, EACH PIPING LINE SHALL BE SEALED AT BOTH ENDS TO PREVENT LANDFILL GAS FROM ESCAPING FROM THE LINE INTO THE ATMOSPHERE.
[RULE 402, 1150.1]
6. DURING VERTICAL, WELL DRILLING, AN APPROVED EMISSION CONTROL BOX SHALL BE PLACED OVER THE WELL HOLE TO COLLECT LANDFILL GAS. THE COLLECTED GAS SHALL BE DIRECTED TO A GAS PROCESSING SYSTEM WHICH IS IN FULL OPERATION, CAN ADEQUATELY PROCESS THE VOLUME OF GAS COLLECTED, AND HAS A VALID PERMIT TO CONSTRUCT OR OPERATE FROM THE AQMD.
[RULE 402, 1150.1]



FACILITY PERMIT TO OPERATE OC WASTE & RECYCLING, SANTIAGO

7. 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 AQMD AS SOON AS THE WELL IS INSTALLED.
[RULE 1150, 1150.1]
8. EACH VERTICAL AND HORIZONTAL WELL HEAD SHALL BE EQUIPPED WITH A SHUT-OFF VALVE AND A SAMPLING PORT.
[RULE 1150.1]
9. 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 1150, 1150.1]
10. EACH WELL SHALL BE SECURELY SEALED TO PREVENT ANY EMISSIONS OF LANDFILL GAS FROM AROUND THE WELL CASING.
[RULE 402, 1150, 1150.1]
11. AS-BUILT DRAWINGS SHOWING THE TRENCH LOCATIONS, VERTICAL WELL LOCATIONS, AND LINE SIZES SHALL BE PROVIDED TO THE SCAQMD WITHIN 30 DAYS AFTER CONSTRUCTION IS COMPLETED.
[RULE 1150.1]
12. THE SCAQMD SHALL BE NOTIFIED IN WRITING WHEN WORK ON THIS SYSTEM COMMENCES AND WHEN IT IS COMPLETED. SUCH NOTIFICATION SHALL OCCUR AT LEAST TWO DAYS PRIOR TO THE COMMENCEMENT AND WITHIN FIVE DAYS AFTER THE COMPLETION OF THE WORK.
[RULE 1150.1]
13. WELL DRILLING, DRIVING, AND/OR TRENCHING SHALL NOT BE CONDUCTED BETWEEN THE HOURS OF 5 P.M AND 7 A.M. OR ON SATURDAYS, SUNDAYS OR LEGAL HOLIDAYS, UNLESS OTHERWISE APPROVED BY THE SCAQMD.
[RULE 402, 1150]
14. 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. 19, OR WHEN THE SCAQMD REQUIRES COMPANIES IN AREA NO. 19 TO IMPLEMENT THEIR FIRST, SECOND OR THIRD STAGE EPISODE PLANS. EPISODE FORECASTS FOR THE FOLLOWING DAY CAN BE OBTAINED BY CALLING (800) 242-4666.
[RULE 402, 1150]
15. 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]
16. DURING WELL DRILLING, DRIVING, AND/OR TRENCHING, ALL WORKING AREAS, EXCAVATED MATERIAL, AND UNPAVED ROADWAYS SHALL BE MAINTAINED IN A MOIST CONDITION TO MINIMIZE DUST AND EMISSIONS.
[RULE 402, 403, 1150]



FACILITY PERMIT TO OPERATE OC WASTE & RECYCLING, SANTIAGO

17. DURING WELL DRILLING, DRIVING, AND/OR TRENCHING, 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 APPROVAL TO RESUME WORK IS RECEIVED FROM THE SCAQMD.
[RULE 402, 1150]
18. 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 WORKDAY.
[RULE 402, 1150]
19. NO MORE THAN 100 LINEAR FEET OF TRENCH, WHICH EXPOSES LANDFILL TRASH TO THE ATMOSPHERE, SHALL BE OPEN AT ANY TIME PRIOR TO BACKFILLING, UNLESS OTHERWISE NOTED BELOW.
[RULE 402, 1150]
20. EXCAVATED REFUSE MAY BE PLACED ALONG THE TRENCH EDGE UPON REMOVAL FROM THE TRENCH. ALL EXCAVATED REFUSE SHALL BE TRANSFERRED TO THE WORKING FACE WITHIN ONE HOUR OF REMOVAL FROM THE TRENCH, UNLESS OTHERWISE NOTED BELOW.
[RULE 402, 1150]
21. IF A DISTINCT ODOR LEVEL (LEVEL III OR GREATER) RESULTING FROM THE WELL DRILLING, DRIVING, AND/OR TRENCHING 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]
22. THE EXTERIOR OF VEHICLES (INCLUDING THE TIRES) HAULING EXCAVATED MATERIAL SHALL BE CLEANED OFF PRIOR TO LEAVING THE WORKING SITE.
[RULE 1150]
23. ALL EXCAVATED REFUSE SHALL BE BURIED AT THE ACTIVE WORKING FACE OF THE LANDFILL BY THE END OF EACH DAY.
[RULE 402, 1150]
24. THE SCAQMD SHALL BE NOTIFIED, IN WRITING, AT LEAST ONE 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 AND DESCRIBES THE ENTIRE GAS COLLECTION SYSTEM. ESTIMATED GAS COLLECTION VOLUME, WELL DEPTHS, PIPE LENGTHS, DIAMETERS AND LAYOUTS SHALL BE SUPPLIED TO THE SCAQMD IN THIS ADVANCE NOTIFICATION.
[RULE 1150.1]



FACILITY PERMIT TO OPERATE OC WASTE & RECYCLING, SANTIAGO

25. WITHIN 30 DAYS AFTER CONSTRUCTION OF A WELL OR A SET OF WELLS AND THEIR ASSOCIATED PIPING IS COMPLETE, AS-BUILT DRAWINGS SHALL BE SUBMITTED TO THE SCAQMD.
[RULE 1150.1]
26. 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]

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 63 SUBPART AAAA



FACILITY PERMIT TO OPERATE OC WASTE & RECYCLING, SANTIAGO

PERMIT TO OPERATE

Permit No. F77552
A/N 441050

Equipment Description:

LANDFILL GAS CONDENSATE AND GROUNDWATER COLLECTION AND STORAGE SYSTEM CONSISTING OF:

1. CONDENSATE COLLECTION AND STORAGE:
 - A. TANK (T-3), CONDENSATE COLLECTION, ABOVEGROUND, POLYETHYLENE, VERTICAL, 7'-6" DIA. BY 7'-6" HIGH, 2000 GALLON CAPACITY, COLLECTING LIQUID FROM GAS HEADER LINE, WITH LIQUID LEVEL CONTROLLER AND ALARM, WITH PRESSURE RELIEF VALVE, VENTED TO 55-GALLON CARBON CANISTER.
 - B. PUMP (P-3), SUBMERSIBLE TYPE, 15 GPM, 1.5 HP, LOCATED INSIDE CONDENSATE COLLECTION TANK, PUMPING CONDENSATE FROM COLLECTION TANK (T-3) TO STORAGE TANK (T-101).
 - C. TANK (T-2), CONDENSATE COLLECTION, ABOVEGROUND, POLYETHYLENE, HORIZONTAL, 3'2" DIA. BY 5'4" LONG, 325 GALLON CAPACITY, COLLECTING LIQUID FROM GAS HEADER LINE, WITH LIQUID LEVEL CONTROLLER AND ALARM, WITH PRESSURE RELIEF VALVE, VENTED TO 55 GALLON CARBON CANISTER.
 - D. PUMP, GRUNDFOS, SUBMERSIBLE TYPE, 5 GPM, 3/4 HP, LOCATED INSIDE CONDENSATE COLLECTION TANK, PUMPING CONDENSATE FROM COLLECTION TANK (T-5) TO COLLECTION TANK (T-2).
 - E. CONDENSATE PIPING AND VALVES, COLLECTING AND TRANSPORTING CONDENSATE.
 - F. TANK (T-4), CONDENSATE COLLECTION, ABOVEGROUND, POLYETHYLENE, VERTICAL, 7'-8" DIA. BY 4'-6" HIGH, 1080 GALLON CAPACITY, WITH SECONDARY CONTAINMENT CAPACITY OF 2800 GALLONS, VENTED TO LFG COLLECTION SYSTEM.
 - G. PUMP (P-4), PNEUMATIC TYPE, 6 GPM, LOCATED INSIDE CONDENSATE COLLECTION TANK (T-4), PUMPING CONDENSATE FROM COLLECTION TANK (T-4) TO HIGH POINT IN THE GAS HEADER.
2. GROUNDWATER COLLECTION AND STORAGE:
 - A. GROUNDWATER EXTRACTION WELLS
 - B. SUMP, CONTAINMENT, WITH SUBMERSIBLE PUMP (P-1A), PUMPING WATER TO TANK (T-1).



FACILITY PERMIT TO OPERATE OC WASTE & RECYCLING, SANTIAGO

- C. TANK (T-101), HOLDING TANK, CONDENSATE AND/OR GROUNDWATER ABOVEGROUND, POLYETHYLENE, VERTICAL, 14'-0" DIA. X 14'-6" H., 16,400 GALLON CAPACITY, COLLECTING CONDENSATE AND GROUNDWATER FROM CONDENSATE COLLECTION TANK (T-3), WITH LIQUID LEVEL CONTROLLER, PRESSURE RELIEF VENT VALVE, VENTED TO 55-GALLON CARBON CANISTER.
 - D. PUMP (P-111), CONTAINMENT (SUMP) TRANSFER, 15 GPM, ½ HP ELECTRIC MOTOR, PUMPING WATER TO TANK (T-101).
3. COMBINED CONDENSATE AND GROUNDWATER COLLECTION AND STORAGE:
- A. PUMPS (P-101A & P-101B), CONDENSATE AND/OR GROUNDWATER TRANSFER, 30 GPM, 1-1/2 HP ELECTRIC MOTORS, ALTERNATING OPERATION (ONE OPERATING, OTHER SPARE), PUMPING WATER FROM TANK (T-101) TO TANK (T-102).
 - B. PUMP (P-112), CONTAINMENT SUMP TRANSFER, 15 GPM, ½ HP ELECTRIC MOTOR, PUMPING WATER TO TANK (T-102).
 - C. FILTERS (F-101A & F-101B), CONDENSATE/GROUNDWATER TRANSFER.
 - D. TANK (T-102), CONDENSATE AND/OR GROUNDWATER INJECTION, ABOVEGROUND, POLYETHYLENE, VERTICAL, 7'6" DIA. X 7'6" H., 2000 GALLON CAPACITY, RECEIVING CONDENSATE AND GROUNDWATER FROM TRANSFER TANK (T-101) PRIOR TO INJECTION INTO FLARE(S), WITH LIQUID LEVEL CONTROLLER AND ALARM, PRESSURE RELIEF VALVE, FLAME ARRESTOR, VENTED TO 55-GALLON CARBON CANISTER

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. ALL CONDENSATE AND/OR GROUNDWATER COLLECTED SHALL BE DISPOSED OF AND/OR TREATED PROPERLY.
[RULE 402]
5. EMISSIONS FROM THE OUTLET OF EACH CARBON CANISTER SHALL NOT, AT ANY TIME, EXCEED 50 PPM TOTAL ORGANIC COMPOUNDS MEASURED AS METHANE.
[RULE 402, 1303(b)(2)-OFFSET]



**FACILITY PERMIT TO OPERATE
OC WASTE & RECYCLING, SANTIAGO**

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



FACILITY PERMIT TO OPERATE OC WASTE & RECYCLING, SANTIAGO

PERMIT TO OPERATE

Permit No. G9764
A/N 494357

Equipment Description:

LANDFILL GAS FLARING SYSTEM CONSISTING OF:

1. ONE (1) CONDENSATE SEPARATOR WITH FILTER, ENDUSTRA, 3750 SCFM CAPACITY, 6'-8" HIGH BY 4'-6" DIAM.
2. ONE (1) FLOW METER WITH RECORDER, FOR TOTAL INLET LANDFILL GAS.
3. THREE (3) BLOWERS, LOCATED IN PARALLEL, EACH 40 HP, EACH 1250 SCFM.
4. THREE (3) SHUT-OFF VALVES, EACH 12-INCH CONNECTIONS, PNEUMATIC, LOCATED IN PARALLEL.
5. THREE (3) FLAME ARRESTORS, 12-INCH CONNECTIONS.
6. TWO (2) PUMPS (P-102A & P-102B), CONDENSATE/GROUNDWATER INJECTION, EACH 7.5 GPM MAX CAPACITY, PNEUMATIC, ALTERNATING OPERATION.
7. TWO (2) FILTERS (F-102A & F-102B).
8. THREE (3) SPRAY NOZZLES, CONDENSATE/GROUNDWATER INJECTION, ONE TO EACH FLARE, LOCATED IN MIDDLE OF BURNERS.
9. THREE (3) FLARES, EACH 8'-4.5" W. BY 8'-4" D. BY 30'-0" H., WITH PROPANE PILOT, PERRENIAL BURNERS, TEN 4-INCH SOURCE TEST PORTS, 41.25 MMBTU/HR, 1250 SCFM, SIX AUTOMATIC AIR LOUVERS, ELECTRIC IGNITER, UV FLAME SCANNER, AND THERMOCOUPLE WITH TEMPERATURE INDICATOR AND RECORDER, FLARES OPERATED IN PARALLEL.
10. TWO (2) TANKS, EACH 5 GALLON CAPACITY CONTAINING PROPANE GAS FOR FLARE PILOTS.

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]



FACILITY PERMIT TO OPERATE OC WASTE & RECYCLING, SANTIAGO

3. THIS EQUIPMENT SHALL BE OPERATED BY PERSONNEL PROPERLY TRAINED IN ITS OPERATION.
[RULE 204]
4. TEN (10) SAMPLING PORTS SHALL BE PROVIDED IN EACH FLARE STACK AT LEAST FIVE (5) FEET UPSTREAM OF THE FLARE OUTLET. FIVE OF THE PORTS SHALL BE LOCATED IN A LINEAR, HORIZONTAL POSITION ACROSS ONE SIDE OF THE FLARE STACK, AND THE REMAINING FIVE SHALL BE LOCATED IN A LINEAR, HORIZONTAL POSITION DIRECTLY OPPOSITE THE FIRST FIVE. EACH SAMPLING PORT SHALL CONSIST OF A FOUR-INCH COUPLING WITH PLUG. ALL PORTS SHALL BE PROPERLY CENTERED. AN EQUIVALENT METHOD OF EMISSION SAMPLING MAY BE USED UPON APPROVAL BY THE EXECUTIVE OFFICER. ADEQUATE AND SAFE ACCESS TO ALL SOURCE TEST PORTS SHALL BE PROVIDED.
[RULE 217]
5. A SAMPLING PORT SHALL BE INSTALLED AND MAINTAINED AT THE INLET GAS LINE TO THE FLARES TO ALLOW THE COLLECTION OF A LANDFILL GAS SAMPLE.
[RULE 217, 431.1, 1150.1, 1303(b)(2)-OFFSET]
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 ITS CORRESPONDING FLARE IS IN OPERATION. THE TEMPERATURE SHALL BE MEASURED AT A LOCATION ABOVE THE FLAME ZONE, AT LEAST 0.6 SECOND DOWNSTREAM OF THE BURNER AND NOT LESS THAN FIVE (5) FEET FROM THE TOP OF THE STACK.
[RULE 1303(a)(1)-BACT]
7. WHENEVER A FLARE IS IN OPERATION, A TEMPERATURE OF NOT LESS THAN 1500 DEGREES F, AS MEASURED BY THE TEMPERATURE INDICATOR AND RECORDER, SHALL BE MAINTAINED IN ITS FLARE STACK.
[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 THE EXECUTIVE OFFICER, 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]
9. THE AUTOMATIC SHUT-DOWN SAFETY SYSTEM SHALL BE TESTED MONTHLY 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 THE FLARE STATION TO MEASURE AND RECORD THE TOTAL QUANTITY OF LANDFILL GAS (IN SCFM) BEING BURNED IN THE FLARE STATION. THE FLOW INDICATING AND RECORDING DEVICE SHALL OPERATE CONTINUOUSLY WHENEVER THE FLARE(S) IS(ARE) IN OPERATION.
[RULE 1303(b)(2)-OFFSET]
11. THE PRESSURE DROP ACROSS EACH FLAME ARRESTOR SHALL BE MEASURED AND RECORDED MONTHLY.



FACILITY PERMIT TO OPERATE OC WASTE & RECYCLING, SANTIAGO

- [RULE 1303(b)(2)-OFFSET]
12. A FLOW INDICATING AND RECORDING DEVICE SHALL BE INSTALLED IN THE CONDENSATE LINE TO MEASURE AND RECORD THE CONDENSATE INJECTION RATE INTO THE FLARE.
[RULE 1303(b)(2)-OFFSET]
 13. THE VOLUME OF LANDFILL GAS BURNED IN EACH FLARE SHALL NOT EXCEED 1224 STANDARD CUBIC FEET PER MINUTE.
[RULE 1303(b)(2)-OFFSET]
 14. THE TOTAL COMBINED VOLUME OF LANDFILL GAS BURNED IN THE FLARE STATION SHALL NOT EXCEED 3672 STANDARD CUBIC FEET PER MINUTE.
[RULE 1303(b)(2)-OFFSET]
 15. THE HEAT INPUT THROUGH EACH FLARE SHALL NOT EXCEED 41.25 MILLION BTU'S PER HOUR.
[RULE 1303(b)(2)-OFFSET]
 16. THE TOTAL HEAT INPUT THROUGH THE FLARE STATION SHALL NOT EXCEED 112.5 MILLION BTU'S PER HOUR.
[RULE 1303(b)(2)-OFFSET]
 17. THE VOLUME OF LIQUID INJECTED INTO EACH FLARE SHALL NOT EXCEED 1.9 GALLONS PER MINUTE (GPM).
[RULE 1303(b)(2)-OFFSET, 1401]
 18. THE TOTAL VOLUME OF LIQUID INJECTED INTO THE FLARE STATION SHALL NOT EXCEED 2.46 GALLONS PER MINUTE (GPM).
[RULE 1303(b)(2)-OFFSET, 1401]
 19. WEEKLY READINGS OF THE COMPOSITION OF THE LANDFILL GAS AT THE INLET TO THE FLARE(S) SHALL BE RECORDED USING AN INSTRUMENT APPROVED BY THE SCAQMD.
[RULE 1303(b)(2)-OFFSET]
 20. ALL LANDFILL GAS COLLECTED SHALL BE DIRECTED EITHER TO THE FLARE(S) FOR COMBUSTION OR TO A TREATMENT FACILITY WHICH HAS A VALID PERMIT FROM THE SCAQMD.
[RULE 1150.1, 1303(a)(1)-BACT]
 21. ALL RECORDING DEVICES SHALL BE SYNCHRONIZED WITH RESPECT TO THE TIME OF DAY.
[RULE 1303(b)(2)-OFFSET]
 22. EACH FLARE SHALL BE EQUIPPED WITH AT LEAST ONE VIEW PORT TO ALLOW VISUAL INSPECTION OF THE FLAME WITHIN THE FLARE AT ALL TIMES. SAFE AND ADEQUATE ACCESS SHALL BE PROVIDED FOR ALL VIEW PORTS UPON REQUEST BY SCAQMD PERSONNEL.
[RULE 217, 1303(a)(1)-BACT]
 23. EACH FLARE SHALL BE DESIGNED AND OPERATED SO THAT THE FLAME IN THE FLARE REMAINS BELOW THE HEIGHT OF THE FLARE'S OPERATING THERMOCOUPLE AT ALL TIMES.
[RULE 1303(a)(1)-BACT]



FACILITY PERMIT TO OPERATE OC WASTE & RECYCLING, SANTIAGO

24. THE MAXIMUM FLARE SKIN TEMPERATURE AT ANY LOCATION SHALL NOT EXCEED 250 DEGREES F.
[RULE 217]
25. 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 AFTER OCCURRENCE, OR WITHIN ONE HOUR OF THE TIME ORANGE COUNTY PERSONNEL KNEW OR REASONABLY SHOULD HAVE KNOWN OF ITS OCCURRENCE, AND IMMEDIATE REMEDIAL MEASURES SHALL BE UNDERTAKEN TO CORRECT THE PROBLEM AND PREVENT FURTHER EMISSIONS INTO THE ATMOSPHERE.
[RULE 402, 430, 1150.1]
26. THE APPLICANT SHALL CONDUCT ANNUAL SOURCE TESTS AND SUBMIT WRITTEN RESULTS OF PERFORMANCE TESTS PERFORMED IN ACCORDANCE WITH SCAQMD RULE 1150.1. WRITTEN NOTICE OF THE PERFORMANCE 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 GAS TO THE FLARE AND THE FLARE EXHAUST FOR:
- A. METHANE
 - B. TOTAL NON-METHANE ORGANICS (WITH AND WITHOUT INJECTION)
 - C. OXIDES OF NITROGEN (EXHAUST ONLY)(WITH AND WITHOUT INJECTION)
 - D. CARBON MONOXIDE (EXHAUST ONLY)(WITH AND WITHOUT INJECTION)
 - E. TOTAL PARTICULATES (EXHAUST ONLY)(WITH AND WITHOUT INJECTION)
 - 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 63 SUBPART AAAA]
27. APPLICANT SHALL SUBMIT ANALYSES OF CONDENSATE AND GROUNDWATER WITH ANNUAL SOURCE TEST RESULTS.
[RULE 1303(b)(2)-OFFSET, 1401]



**FACILITY PERMIT TO OPERATE
OC WASTE & RECYCLING, SANTIAGO**

28. EMISSIONS RESULTING FROM EACH FLARE SHALL NOT EXCEED THE FOLLOWING:

POLLUTANT	LBS./HOUR
NOX, AS NO2	2.50
SOX, AS SO2	0.50
CO	12.0
PM	1.4
NMHC, AS METHANE	0.65
[RULE 1303(b)(2)-OFFSET]	

29. TOTAL EMISSIONS RESULTING FROM THE FLARE STATION SHALL NOT EXCEED THE FOLLOWING:

POLLUTANT	LBS./HOUR	LBS./DAY
NOX, AS NO2	6.8	162
SOX, AS SO2	1.12	27
CO	32.6	783
PM	4.1	99
NMHC, AS METHANE	1.91	46
[RULE 1303(b)(2)-OFFSET]		

30. NO MORE THAN TWO FLARES OF THE FLARE STATION SHALL BE OPERATED AT THE SAME TIME.

31. EMISSIONS OF HEXAVALENT CHROME FROM THE FLARE STATION SHALL NOT EXCEED 0.03005 LB/YR. UNLESS OTHERWISE ANALYZED, ALL CHROME EMITTED SHALL BE ASSUMED TO BE HEXAVALENT.
[RULE 1401]

32. APPLICANT SHALL SAMPLE FOR TOTAL CHROME FROM A WELL-MIXED, COMPOSITE GROUNDWATER/CONDENSATE SAMPLE ON A WEEKLY BASIS WHENEVER GROUNDWATER IS BEING COLLECTED AT THE SITE FOR INJECTION INTO THE FLARE(S).
[RULE 1401]

33. OXIDES OF NITROGEN EMISSIONS SHALL NOT EXCEED 0.06 POUNDS PER MILLION BTU'S INLET GAS.
[RULE 1303(a)(1)-BACT]

33. CARBON MONOXIDE EMISSIONS SHALL NOT EXCEED 0.29 POUNDS PER MILLION BTU'S INLET GAS.
[RULE 1303(b)(2)-OFFSET]

34. PARTICULATE EMISSIONS SHALL NOT EXCEED 18.5 POUNDS PER MILLION CUBIC FEET INLET GAS.
[RULE 1303(b)(2)-OFFSET]



FACILITY PERMIT TO OPERATE OC WASTE & RECYCLING, SANTIAGO

Emissions and Requirements:

35. 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 AAAAA

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 OC WASTE & RECYCLING, SANTIAGO

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 REGULATIONS:

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



FACILITY PERMIT TO OPERATE OC WASTE & RECYCLING, SANTIAGO

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



FACILITY PERMIT TO OPERATE OC WASTE & RECYCLING, SANTIAGO

SECTION E: ADMINISTRATIVE CONDITIONS

The operating conditions in this section shall apply to all permitted equipment at this facility unless superseded by condition(s) listed elsewhere in this permit.

1. The permit shall remain effective unless this permit is suspended, revoked, modified, reissued, denied, or it is expired for nonpayment of permit processing or annual operating fees. [201, 203, 209, 301]
 - a. The permit must be renewed annually by paying annual operating fees, and the permit shall expire if annual operating fees are not paid pursuant to requirements of Rule 301(d). [301(d)]
 - b. The Permit to Construct listed in Section H shall expire one year from the Permit to Construct issuance date, unless a Permit to Construct extension has been granted by the Executive Officer or unless the equipment has been constructed and the operator has notified the Executive Officer prior to the operation of the equipment, in which case the Permit to Construct serves as a temporary Permit to Operate. [202, 205]
 - c. The Title V permit shall expire as specified under Section K of the Title V permit. The permit expiration date of the Title V facility permit does not supercede the requirements of Rule 205. [205, 3004]
2. The operator shall maintain all equipment in such a manner that ensures proper operation of the equipment. [204]
3. This permit does not authorize the emissions of air contaminants in excess of those allowed by Division 26 of the Health and Safety Code of the State of California or the Rules and Regulations of the AQMD. This permit cannot be considered as permission to violate existing laws, ordinances, regulations, or statues of other governmental agencies. [204]
4. The operator shall not use equipment identified in this facility permit as being connected to air pollution control equipment unless they are so vented to the identified air pollution control equipment which is in full use and which has been included in this permit. [204]



FACILITY PERMIT TO OPERATE OC WASTE & RECYCLING, SANTIAGO

SECTION E: ADMINISTRATIVE CONDITIONS

5. The operator shall not use any equipment having air pollution control device(s) incorporated within the equipment unless the air pollution control device is in full operation. [204]
6. The operator shall maintain records to demonstrate compliance with rules or permit conditions that limit equipment operating parameters, or the type or quantity of material processed. These records shall be made available to AQMD personnel upon request and be maintained for at least five years. [204]
7. The operator shall maintain and operate all equipment to ensure compliance with all emission limits as specified in this facility permit. Compliance with emission limits shall be determined according to the following specifications, unless otherwise specified by AQMD rules or permit conditions: [204]
 - a. For internal combustion engines and gas turbines, measured concentrations shall be corrected to 15 percent stack-gas oxygen content on a dry basis and be averaged over a period of 15 consecutive minutes; [1110.2, 1134]
 - b. For other combustion devices, measured concentrations shall be corrected to 3 percent stack-gas oxygen content on a dry basis and be averaged over a period of 15 consecutive minutes; [1146, 1146.1, 204]
 - c. For non-combustion sources, compliance with emission limits shall be determined and averaged over a period of 60 minutes; [204]
 - d. For the purpose of determining compliance with Rule 407, carbon monoxide (CO) shall be measured on a dry basis and be averaged over 15 consecutive minutes, and sulfur compounds which would exist as liquid or gas at standard conditions shall be calculated as sulfur dioxide (SO₂) and be averaged over 15 consecutive minutes; [407]
 - e. For the purpose of determining compliance with Rule 409, combustion contaminant emission measurements shall be corrected to 12 percent of carbon dioxide (CO₂) at standard conditions and averaged over a minimum of 15 consecutive minutes. [409]



FACILITY PERMIT TO OPERATE OC WASTE & RECYCLING, SANTIAGO

SECTION E: ADMINISTRATIVE CONDITIONS

- f. For the purpose of determining compliance with Rule 475, combustion contaminant emission measurements shall be corrected to 3 percent of oxygen (O₂) at standard conditions and averaged over 15 consecutive minutes or any other averaging time specified by the Executive Officer. [475]
8. The operator shall, when a source test is required by AQMD, provide a source test protocol to AQMD no later than 60 days before the proposed test date. The test shall not commence until the protocol is approved by AQMD. The test protocol shall contain the following information: [204, 304]
 - a. Brief description of the equipment tested.
 - b. Brief process description, including maximum and normal operating temperatures, pressures, throughput, etc.
 - c. Operating conditions under which the test will be performed.
 - d. Method of measuring operating parameters, such as fuel rate and process weight. Process schematic diagram showing the ports and sampling locations, including the dimensions of the ducts and stacks at the sampling locations, and distances of flow disturbances, (e.g. elbows, tees, fans, dampers) from the sampling locations (upstream and downstream).
 - e. Brief description of sampling and analytical methods used to measure each pollutant, temperature, flow rates, and moisture.
 - f. Description of calibration and quality assurance procedures.
 - g. Determination that the testing laboratory qualifies as an "independent testing laboratory" under Rule 304 (conflict of interest).
9. The operator shall submit a report no later than 60 days after conducting a source test, unless otherwise required by AQMD rules or equipment-specific conditions. The report shall contain the following information: [204]
 - a. The results of the source test.



FACILITY PERMIT TO OPERATE OC WASTE & RECYCLING, SANTIAGO

SECTION E: ADMINISTRATIVE CONDITIONS

- b. Brief description of the equipment tested.
 - c. Operating conditions under which the test was performed.
 - d. Method of measuring operating parameters, such as fuel rate and process weight. Process schematic diagram showing the ports and sampling locations, including the dimensions of the ducts and stacks at the sampling locations, and distances of flow disturbances, (e.g. elbows, tees, fans, dampers) from the sampling locations (upstream and downstream).
 - e. Field and laboratory data forms, strip charts and analyses.
 - f. Calculations for volumetric flow rates, emission rates, control efficiency, and overall control efficiency.
10. The operator shall, when a source test is required, provide and maintain facilities for sampling and testing. These facilities shall comply with the requirements of AQMD Source Test Method 1.1 and 1.2. [217]
 11. Whenever required to submit a written report, notification or other submittal to the Executive Officer, AQMD, or the District, the operator shall mail or deliver the material to: Deputy Executive Officer, Engineering and Compliance, AQMD, 21865 E. Copley Drive, Diamond Bar, CA 91765-4182. [204]



AQMD

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 Copley Drive, Diamond Bar, CA 91765

Section F	Page:	1
Facility ID:		052743
Revision #:		1
Date:		August 31, 2010

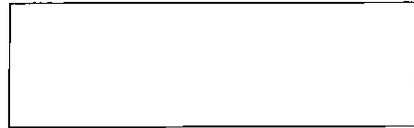
FACILITY PERMIT TO OPERATE OC WASTE & RECYCLING, SANTIAGO

SECTION F: RECLAIM MONITORING AND SOURCE TESTING REQUIREMENTS

NOT APPLICABLE



SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 Copley Drive, Diamond Bar, CA 91765





SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 Copley Drive, Diamond Bar, CA 91765

Section G	Page: 1
Facility ID:	052743
Revision #:	1
Date:	August 31, 2010

**FACILITY PERMIT TO OPERATE
OC WASTE & RECYCLING, SANTIAGO**

**SECTION G: RECORDKEEPING AND REPORTING REQUIREMENTS FOR
RECLAIM SOURCES**

NOT APPLICABLE



SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 Copley Drive, Diamond Bar, CA 91765





**FACILITY PERMIT TO OPERATE
OC WASTE & RECYCLING, SANTIAGO**

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

NONE



SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 Copley Drive, Diamond Bar, CA 91765





FACILITY PERMIT TO OPERATE OC WASTE & RECYCLING, SANTIAGO

SECTION I: PLANS AND SCHEDULES

This section lists all plans approved by AQMD for the purposes of meeting the requirements of applicable AQMD rules specified below. The operator shall comply with all conditions specified in the approval of these plans.

Documents pertaining to the plan applications listed below are available for public review at AQMD Headquarters. Any changes to plan applications will require permit modification in accordance with Title V permit revision procedures.

List of approved plans:

Application	Rule
345542	431.1
407245	1150.1

NOTE: This section does not list compliance schedules pursuant to the requirements of Regulation XXX - Title V Permits; Rule 3004(a)(10)(C). For equipment subject to a variance, order for abatement, or alternative operating condition granted pursuant to Rule 518.2, equipment specific conditions are added to the equipment in Section D or H of the permit.



SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 Copley Drive, Diamond Bar, CA 91765





FACILITY PERMIT TO OPERATE OC WASTE & RECYCLING, SANTIAGO

SECTION J: AIR TOXICS

[40CFR 63 Subpart AAAA 01-16-2003]

NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS - MUNICIPAL SOLID WASTE LANDFILLS

- (1) The owner/operator of a municipal solid waste (MSW) landfill shall comply with all applicable requirements of 40 CFR 63, Subpart AAAA and of 40 CFR 63, Subpart A – General Provisions by the compliance date(s) that are specified in these subparts.
- (2) The owner/operator of a MSW landfill system shall comply with all applicable requirements for installation and operation of a landfill gas collection and/or control system as specified in 40 CFR 60, subpart Cc or WWW.
- (3) The operator shall keep all records pursuant to Section 63.1980 of this subpart or Subpart A to demonstrate compliance with all applicable requirements. All records including data, calculations and any supporting documentation shall be prepared in a format which is acceptable to the AQMD.
- (4) The operator shall submit all reports, notifications, plans, submittals and other communications required by Section 63.1980 of this subpart or Subpart A to the AQMD and, unless notified to the contrary by AQMD or US EPA, to US EPA Region IX (See Sections E and K of this permit for addresses).
- (5) Alternative plans, compliance plans, and the construction and operation of new or modified air pollution control equipment that are required by this subpart shall be approved through the AQMD permit system.



SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 Copley Drive, Diamond Bar, CA 91765





FACILITY PERMIT TO OPERATE OC WASTE & RECYCLING, SANTIAGO

SECTION K: TITLE V Administration

GENERAL PROVISIONS

1. This permit may be revised, revoked, reopened and reissued, or terminated for cause, or for failure to comply with regulatory requirements, permit terms, or conditions. [3004(a)(7)(C)]
2. This permit does not convey any property rights of any sort or any exclusive privilege. [3004(a)(7)(E)]

Permit Renewal and Expiration

3. (A) Except for solid waste incineration facilities subject to standards under section 129(e) of the Clean Air Act, this permit shall expire five years from the date that this Title V permit is issued. The operator's right to operate under this permit terminates at midnight on this date, unless the facility is protected by an application shield in accordance with Rule 3002(b), due to the filing of a timely and complete application for a Title V permit renewal, consistent with Rule 3003. [3004(a)(2), 3004(f)]

(B) A Title V permit for a solid waste incineration facility combusting municipal waste subject to standards under Section 129(e) of the Clean Air Act shall expire 12 years from the date of issuance unless such permit has been renewed pursuant to this regulation. These permits shall be reviewed by the Executive Officer at least every five years from the date of issuance. [3004(f)(2)]
4. To renew this permit, the operator shall submit to the Executive Officer an application for renewal at least 180 days, but not more than 545 days, prior to the expiration date of this permit. [3003(a)(6)]

Duty to Provide Information

5. The applicant for, or holder of, a Title V permit shall furnish, pursuant to Rule 3002(d) and (e), timely information and records to the Executive Officer or designee within a reasonable time as specified in writing by the Executive Officer or designee. [3004(a)(7)(F)]

Payment of Fees

6. The operator shall pay all required fees specified in Regulation III - Fees. [3004(a)(7)(G)]



FACILITY PERMIT TO OPERATE OC WASTE & RECYCLING, SANTIAGO

SECTION K: TITLE V Administration

Reopening for Cause

7. The Executive Officer will reopen and revise this permit if any of the following circumstances occur:
- (A) Additional regulatory requirements become applicable with a remaining permit term of three or more years. Reopening is not required if the effective date of the requirement is later than the expiration date of this permit, unless the permit or any of its terms and conditions has been extended pursuant to paragraph (f)(4) of Rule 3004.
 - (B) The Executive Officer or EPA Administrator determines that this permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.
 - (C) The Executive Officer or EPA Administrator determines that the permit must be revised or revoked to assure compliance with the applicable requirements. [3005(g)(1)]

COMPLIANCE PROVISIONS

8. The operator shall comply with all regulatory requirements, and all permit terms and conditions, except:
- (A) As provided for by the emergency provisions of condition no. 17 or condition no. 18, or
 - (B) As provided by an alternative operating condition granted pursuant to a federally approved (SIP-approved) Rule 518.2.

Any non-compliance with any federally enforceable permit condition constitutes a violation of the Federal Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or revision; or denial of a permit renewal application. Non-compliance may also be grounds for civil or criminal penalties under the California State Health and Safety Code. [3004(a)(7)(A)]



AQMD

FACILITY PERMIT TO OPERATE OC WASTE & RECYCLING, SANTIAGO

SECTION K: TITLE V Administration

9. The operator shall allow the Executive Officer or authorized representative, upon presentation of appropriate credentials to:
 - (A) Enter the operator's premises where emission-related activities are conducted, or records are 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 the permit;
 - (C) Inspect at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
 - (D) Sample or monitor at reasonable times, substances or parameters for the purpose of assuring compliance with the facility permit or regulatory requirements. [3004(a)(10)(B)]

10. All terms and conditions in this permit, including any provisions designed to limit a facility's potential to emit, are enforceable by the EPA Administrator and citizens under the federal Clean Air Act, unless the term or condition is designated as not federally enforceable. Each day during any portion of which a violation occurs is a separate offense. [3004(g)]

11. A challenge to any permit condition or requirement raised by EPA, the operator, or any other person, shall not invalidate or otherwise affect the remaining portions of this permit. [3007(b)]

12. The filing of any application for a permit revision, revocation, or termination, or a notification of planned changes or anticipated non-compliance does not stay any permit condition. [3004(a)(7)(D)]

13. It shall not be a defense for a person in an enforcement action, including those listed in Rule 3002(c)(2), that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit, except as provided for in "Emergency Provisions" of this section. [3004(a)(7)(H)]



FACILITY PERMIT TO OPERATE OC WASTE & RECYCLING, SANTIAGO

SECTION K: TITLE V Administration

14. The operator shall not build, erect, install, or use any equipment, the use of which, without resulting in a reduction in the total release of air contaminants to atmosphere, reduces or conceals an emission which would otherwise constitute a violation of Chapter 3 (commencing with Section 41700) of Part 4, of Division 26 of the California Health and Safety Code or of AQMD rules. This rule shall not apply to cases in which the only violation involved is of Section 41700 of the California Health and Safety Code, or Rule 402 of AQMD Rules. [408]
15. Nothing in this permit or in any permit shield can alter or affect:
- (A) Under Section 303 of the federal Clean Air Act, the provisions for emergency orders;
 - (B) The liability of the operator for any violation of applicable requirements prior to or at the time of permit issuance;
 - (C) The applicable requirements of the Acid Rain Program, Regulation XXXI;
 - (D) The ability of EPA to obtain information from the operator pursuant to Section 114 of the federal Clean Air Act;
 - (E) The applicability of state or local requirements that are not "applicable requirements", as defined in Rule 3000, at the time of permit issuance but which do apply to the facility, such as toxics requirements unique to the State; and
 - (F) The applicability of regulatory requirements with compliance dates after the permit issuance date. [3004(c)(3)]
16. For any portable equipment that requires an AQMD or state permit or registration, excluding a) portable engines, b) military tactical support equipment and c) AQMD-permitted portable equipment that are not a major source, are not located at the facility for more than 12 consecutive months after commencing operation, and whose operation does not conflict with the terms or conditions of this Title V permit: 1) the facility operator shall keep a copy of the AQMD or state permit or registration; 2) the equipment operator shall comply with the conditions on the permit or registration and all other regulatory requirements; and 3) the facility operator shall treat the permit or registration as a part of its Title V permit, subject to recordkeeping, reporting and certification requirements. [3004(a)(1)]



FACILITY PERMIT TO OPERATE OC WASTE & RECYCLING, SANTIAGO

SECTION K: TITLE V Administration EMERGENCY PROVISIONS

17. An emergency¹ constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limit only if:
- (A) Properly signed, contemporaneous operating records or other credible evidence demonstrate that:
 - (1) An emergency occurred and the operator can identify the cause(s) of the emergency;
 - (2) The facility was operated properly (i.e. operated and maintained in accordance with the manufacturer's specifications, and in compliance with all regulatory requirements or a compliance plan), before the emergency occurred;
 - (3) The operator took all reasonable steps to minimize levels of emissions that exceeded emissions standard, or other requirements in the permit; and,
 - (4) The operator submitted a written notice of the emergency to the AQMD within two working days of the time when the emissions limitations were exceeded due to the emergency. The notice shall contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken; and
 - (B) The operator complies with the breakdown provisions of Rule 430 – Breakdown Provisions, or subdivision (i) of Rule 2004 – Requirements, whichever is applicable. [3002(g), 430, 2004(i)]
18. The operator is excused from complying with any regulatory requirement that is suspended by the Executive Officer during a state of emergency or state of war emergency, in accordance with Rule 118 - Emergencies. [118]

¹ "Emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the operator, including acts of God, which: (A) requires immediate corrective action to restore normal operation; and (B) causes the facility to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency; and (C) is not caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.



FACILITY PERMIT TO OPERATE OC WASTE & RECYCLING, SANTIAGO

SECTION K: TITLE V Administration

RECORDKEEPING PROVISIONS

19. In addition to any other recordkeeping requirements specified elsewhere in this permit, the operator shall keep records of required monitoring information, where applicable, that include:

- (A) The date, place as defined in the Title V permit, and time of sampling or measurements;
- (B) The date(s) analyses were performed;
- (C) The company or entity that performed the analyses;
- (D) The analytical techniques or methods used;
- (E) The results of such analyses; and
- (F) The operating conditions as existing at the time of sampling or measurement. [3004(a)(4)(B)]

20. The operator shall maintain records pursuant to Rule 109 and any applicable material safety data sheet (MSDS) for any equipment claimed to be exempt from a written permit by Rule 219 based on the information in those records. [219(t)]

21. The operator shall keep all records of monitoring data required by this permit or by regulatory requirements for a period of at least five years from the date of the monitoring sample, measurement, report, or application. [3004(a)(4)(E)]

REPORTING PROVISIONS

22. The operator shall comply with the following requirements for prompt reporting of deviations:

- (A) Breakdowns shall be reported as required by Rule 430 – Breakdown Provisions or subdivision (i) of Rule 2004 - Requirements, whichever is applicable.



FACILITY PERMIT TO OPERATE OC WASTE & RECYCLING, SANTIAGO

SECTION K: TITLE V Administration

- (B) Other deviations from permit or applicable rule emission limitations, equipment operating conditions, or work practice standards, determined by observation or by any monitoring or testing required by the permit or applicable rules that result in emissions greater than those allowed by the permit or applicable rules shall be reported within 72 hours (unless a shorter reporting period is specified in an applicable State or Federal Regulation) of discovery of the deviation by contacting AQMD enforcement personnel assigned to this facility or otherwise calling (800) CUT-SMOG.
 - (C) A written report of such deviations reported pursuant to (B), and any corrective actions or preventative measures taken, shall be submitted to AQMD, in an AQMD approved format, within 14 days of discovery of the deviation.
 - (D) All other deviations shall be reported with the monitoring report required by condition no. 23. [3004(a)(5)]
23. Unless more frequent reporting of monitoring results are specified in other permit conditions or in regulatory requirements, the operator shall submit reports of any required monitoring to the AQMD at least twice per year. The report shall include a) a statement whether all monitoring required by the permit was conducted; and b) identification of all instances of deviations from permit or regulatory requirements. A report for the first six calendar months of the year is due by August 31 and a report for the last six calendar months of the year is due by February 28. [3004(a)(4)(F)]
24. The operator shall submit to the Executive Officer and to the Environmental Protection Agency (EPA), an annual compliance certification. For RECLAIM facilities, the certification is due when the Annual Permit Emissions Program (APEP) report is due and shall cover the same reporting period. For other facilities, the certification is due on March 1 for the previous calendar year. The certification need not include the period preceding the date the initial Title V permit was issued. Each compliance certification shall include:
- (A) Identification of each permit term or condition that is the basis of the certification;



FACILITY PERMIT TO OPERATE OC WASTE & RECYCLING, SANTIAGO

SECTION K: TITLE V Administration

- (B) The compliance status during the reporting period;
- (C) Whether compliance was continuous or intermittent;
- (D) The method(s) used to determine compliance over the reporting period and currently, and
- (E) Any other facts specifically required by the Executive Officer to determine compliance.

The EPA copy of the certification shall be sent to: Director of the Air Division Attn:
Air-3 USEPA, Region IX 75 Hawthorne St. San Francisco, CA 94105 [3004(a)(10)(E)]

25. All records, reports, and documents required to be submitted by a Title V operator to AQMD or EPA shall contain a certification of accuracy consistent with Rule 3003(c)(7) by a responsible official (as defined in Rule 3000). [3004(a)(12)]

PERIODIC MONITORING

26. All periodic monitoring required by this permit pursuant to Rule 3004(a)(4)(c) is based on the requirements and justifications in the AQMD document "Periodic Monitoring Guidelines for Title V Facilities" or in case-by-case determinations documented in the TitleV application file. [3004(a)(4)]



FACILITY PERMIT TO OPERATE OC WASTE & RECYCLING, SANTIAGO

SECTION K: TITLE V Administration

FACILITY RULES

This facility is subject to the following rules and regulations

With the exception of Rule 402, 473, 477, 1118 and Rules 1401 through 1420, the following rules that are designated as non-federally enforceable are pending EPA approval as part of the state implementation plan. Upon the effective date of that approval, the approved rule(s) will become federally enforceable, and any earlier versions of those rules will no longer be federally enforceable.

RULE SOURCE	Adopted/Amended Date	FEDERAL Enforceability
RULE 1113	11-8-1996	Federally enforceable
RULE 1113	7-13-2007	Non federally enforceable
RULE 1150	10-15-1982	Non federally enforceable
RULE 1150.1	3-17-2000	Federally enforceable
RULE 1171	11-7-2003	Federally enforceable
RULE 1171	2-1-2008	Non federally enforceable
RULE 118	12-7-1995	Non federally enforceable
RULE 1303(a)(1)-BACT	12-6-2002	Non federally enforceable
RULE 1303(a)(1)-BACT	5-10-1996	Federally enforceable
RULE 1303(b)(2)-Offset	12-6-2002	Non federally enforceable
RULE 1303(b)(2)-Offset	5-10-1996	Federally enforceable
RULE 1401	3-7-2008	Non federally enforceable
RULE 204	10-8-1993	Federally enforceable
RULE 206	10-8-1993	Federally enforceable
RULE 217	1-5-1990	Federally enforceable
RULE 219	6-1-2007	Non federally enforceable
RULE 219	9-4-1981	Federally enforceable
RULE 3002	11-14-1997	Federally enforceable
RULE 3003	11-14-1997	Federally enforceable
RULE 3003	3-16-2001	Non federally enforceable
RULE 3004	12-12-1997	Federally enforceable
RULE 3005	11-14-1997	Federally enforceable



FACILITY PERMIT TO OPERATE OC WASTE & RECYCLING, SANTIAGO

SECTION K: TITLE V Administration

RULE SOURCE	Adopted/Amended Date	FEDERAL Enforceability
RULE 3005	3-16-2001	Non federally enforceable
RULE 3007	10-8-1993	Federally enforceable
RULE 304	7-9-2004	Non federally enforceable
RULE 401	11-9-2001	Non federally enforceable
RULE 401	3-2-1984	Federally enforceable
RULE 402	5-7-1976	Non federally enforceable
RULE 403	12-11-1998	Federally enforceable
RULE 404	2-7-1986	Federally enforceable
RULE 408	5-7-1976	Federally enforceable
RULE 430	7-12-1996	Non federally enforceable
RULE 431.1	6-12-1998	Federally enforceable
RULE 431.2	5-4-1990	Federally enforceable
RULE 431.2	9-15-2000	Non federally enforceable
RULE 701	6-13-1997	Federally enforceable
40CFR 63 Subpart AAAA	1-16-2003	Federally enforceable



SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 Copley Drive, Diamond Bar, CA 91765

Appendix A	Page: 1
Facility ID:	052743
Revision #:	1
Date:	August 31, 2010



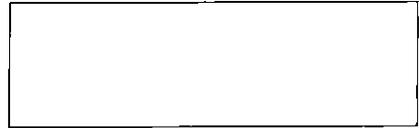
FACILITY PERMIT TO OPERATE OC WASTE & RECYCLING, SANTIAGO

**APPENDIX A: NOX AND SOX EMITTING EQUIPMENT EXEMPT FROM WRITTEN
PERMIT PURSUANT TO RULE 219**

NONE



SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 Copley Drive, Diamond Bar, CA 91765





FACILITY PERMIT TO OPERATE OC WASTE & RECYCLING, SANTIAGO

APPENDIX B: RULE EMISSION LIMITS [RULE 1113 11-08-1996]

- (1) Except as provided in paragraphs (c)(2), (c)(3), and (c)(4) of Rule 1113, the operator shall not supply, sell, offer for sale, apply, or solicit the application of, any architectural coating which, at the time of sale or manufacture, contains more than 250 grams of VOC per liter of coating (2.08 pounds per gallon), less water, less exempt compounds, and less any colorant added to tint bases, or manufacture, blend, or repackage such a coating for use within the District.
- (2) Except as provided in paragraphs (c)(3) and (c)(4) of Rule 1113, the operator shall not supply, sell, offer for sale, apply, solicit the application of, manufacture, blend, or repackage, for use within the District, any architectural coating listed in the Table of Standards which contains VOC (excluding any colorant added to tint bases) in excess of the corresponding VOC limit specified in the table, after the effective date specified.

TABLE OF STANDARDS

VOC LIMITS

Grams of VOC Per Liter of Coating, Less Water And Less Exempt Compounds

COATING	Limit*	Effective Date of Adoption	Effective 1/1/1998	Effective 1/1/1999	Effective 7/1/2001	Effective 1/1/2005	Effective 7/1/2008
Bond Breakers	350						
Clear Wood Finishes							
Varnish	350						
Sanding Sealers	350						
Lacquer	680		550			275	
Concrete-Curing Compounds	350						
Dry-Fog Coatings	400						
Fire-proofing Exterior Coatings	350	450		350			
Fire-Retardant Coatings							
Clear	650						
Pigmented	350						
Flats	250				100		50
Graphic Arts (Sign) Coatings	500						



FACILITY PERMIT TO OPERATE OC WASTE & RECYCLING, SANTIAGO

APPENDIX B: RULE EMISSION LIMITS [RULE 1113 11-08-1996]

Industrial Maintenance						
Primers and Topcoats						
Alkyds	420					
Catalyzed Epoxy	420					
Bituminous Coatings	420					
Materials						
Inorganic Polymers	420					
Vinyl Chloride Polymers	420					
Chlorinated Rubber	420					
Acrylic Polymers	420					
Urethane Polymers	420					
Silicones	420					
Unique Vehicles	420					
Japans/Faux Finishing	350	700		350		
Coatings						
Magnesite Cement Coatings	600			450		
Mastic Coatings	300					
Metallic Pigmented Coatings	500					
Multi-Color Coatings	420		250			
Pigmented Lacquer	680		550		275	
Pre-Treatment Wash Primers	780					
Primers, Sealers, and	350					
Undercoaters						
Quick-Dry Enamels	400					
Roof Coatings	300					
Shellac						
Clear	730					
Pigmented	550					
Stains	350					
Swimming Pool Coatings						
Repair	650					
Other	340					
Traffic Coatings	250		150			
Waterproofing Sealers	400					
Wood Preservatives						
Below-Ground	350					
Other	350					

* The specified limits remain in effect unless revised limits are listed in subsequent columns in the Table of Standards

TABLE OF STANDARDS (cont.)

VOC LIMITS

Grams of VOC Per Liter of Material

COATING	Limit
Low-Solids Coating	120



FACILITY PERMIT TO OPERATE OC WASTE & RECYCLING, SANTIAGO

APPENDIX B: RULE EMISSION LIMITS [RULE 1113 07-13-2007]

- (1) Except as provided in paragraphs (c)(2), (c)(3), (c)(4), and specified coatings averaged under (c)(6), no person shall supply, sell, offer for sale, manufacture, blend, or repackage any architectural coating for use in the District which, at the time of sale or manufacture, contains more than 250 grams of VOC per liter of coating (2.08 pounds per gallon), less water, less exempt compounds, and less any colorant added to tint bases, and no person shall apply or solicit the application of any architectural coating within the District that exceeds 250 grams of VOC per liter of coating as calculated in this paragraph.
- (2) Except as provided in paragraphs (c)(3), (c)(4), and designated coatings averaged under (c)(6), no person shall supply, sell, offer for sale, manufacture, blend, or repackage, for use within the District, any architectural coating listed in the Table of Standards which contains VOC (excluding any colorant added to tint bases) in excess of the corresponding VOC limit specified in the table, after the effective date specified, and no person shall apply or solicit the application of any architectural coating within the District that exceeds the VOC limit as specified in this paragraph. No person shall apply or solicit the application within the District of any industrial maintenance coatings, except anti-graffiti coatings, for residential use or for use in areas such as office space and meeting rooms of industrial, commercial or institutional facilities not exposed to such extreme environmental conditions described in the definition of industrial maintenance coatings; or of any rust-preventative coating for industrial use, unless such a rust preventative coating complies with the Industrial Maintenance Coating VOC limit specified in the Table of Standards.



FACILITY PERMIT TO OPERATE OC WASTE & RECYCLING, SANTIAGO

APPENDIX B: RULE EMISSION LIMITS [RULE 1113 07-13-2007]

TABLE OF STANDARDS VOC LIMITS

**Grams of VOC Per Liter of Coating,
Less Water and Less Exempt Compounds**

COATING CATEGORY	Ceiling Limit*	Current Limit	Effective Date					
			1/1/03	1/1/04	1/1/05	7/1/06	7/1/07	7/1/08
Bond Breakers	350							
Clear Wood Finishes	350					275		
Varnish	350					275		
Sanding Sealers	350					275		
Lacquer	680	550			275			
Clear Brushing Lacquer	680				275			
Concrete-Curing Compounds	350						100	
Concrete-Curing Compounds For Roadways and Bridges**	350							
Dry-Fog Coatings	400						150	
Fire-Proofing Exterior Coatings	450	350						
Fire-Retardant Coatings***								
Clear	650							
Pigmented	350							
Flats	250	100						50
Floor Coatings	420		100			50		
Graphic Arts (Sign) Coatings	500							
Industrial Maintenance (IM) Coatings	420			250		100		
High Temperature IM Coatings			420					
Zinc-Rich IM Primers	420		340			100		
Japans/Faux Finishing Coatings	700	350						
Magnesite Cement Coatings	600	450						
Mastic Coatings	300							
Metallic Pigmented Coatings	500							
Multi-Color Coatings	420	250						
Nonflat Coatings	250		150			50		



FACILITY PERMIT TO OPERATE OC WASTE & RECYCLING, SANTIAGO

APPENDIX B: RULE EMISSION LIMITS [RULE 1113 07-13-2007]

COATING CATEGORY	Ceiling Limit*	Current Limit	Effective Date					
			1/1/03	1/1/04	1/1/05	7/1/06	7/1/07	7/1/08
Nonflat High Gloss	250		150				50	
Pigmented Lacquer	680	550			275			
Pre-Treatment Wash Primers	780		420					
Primers, Sealers, and Undercoaters	350		200			100		
Quick-Dry Enamels	400		250			150	50	
Quick-Dry Primers, Sealers, and Undercoaters	350		200			100		
Recycled Coatings			250					
Roof Coatings	300		250		50			
Roof Coatings, Aluminum	500				100			
Roof Primers, Bituminous	350		350					
Rust Preventative Coatings	420		400			100		
Shellac								
Clear	730							
Pigmented	550							
Specialty Primers	350					250	100	
Stains	350		250				100	
Stains, Interior	250							
Swimming Pool Coatings								
Repair	650		340					
Other	340							
Traffic Coatings	250	150					100	
Waterproofing Sealers	400		250			100		
Waterproofing	400					100		
Concrete/Masonry Sealers								
Wood Preservatives								
Below-Ground	350							
Other	350							

* The specified limits remain in effect unless revised limits are listed in subsequent columns in the Table of Standards.

** Does not include compounds used for curbs and gutters, sidewalks, islands, driveways and other miscellaneous concrete areas.

*** The Fire-Retardant Coating category will be eliminated on January 1, 2007 and subsumed by the coating category for which they are formulated.



**FACILITY PERMIT TO OPERATE
OC WASTE & RECYCLING, SANTIAGO**

**APPENDIX B: RULE EMISSION LIMITS
[RULE 1113 07-13-2007]**

**TABLE OF STANDARDS (cont.)
VOC LIMITS**

Grams of VOC Per Liter of Material

COATING	Limit
Low-Solids Coating	120



**FACILITY PERMIT TO OPERATE
OC WASTE & RECYCLING, SANTIAGO**

**APPENDIX B: RULE EMISSION LIMITS
[RULE 1171 11-07-2003]**

(1) Solvent Requirements

A person shall not use a solvent to perform solvent cleaning operations unless the solvent complies with the applicable requirements set forth below:

SOLVENT CLEANING ACTIVITY	CURRENT LIMITS
	VOC g/l (lb/gal)
(A) Product Cleaning During Manufacturing Process Or Surface Preparation For Coating, Adhesive, Or Ink Application	
(i) General	25 (0.21)
(ii) Electrical Apparatus Components & Electronic Components	500 (4.2)
(iii) Medical Devices & Pharmaceuticals	800 (6.7)
(B) Repair and Maintenance Cleaning	
(i) General	25 (0.21)
(ii) Electrical Apparatus Components & Electronic Components	900 (7.5)



FACILITY PERMIT TO OPERATE OC WASTE & RECYCLING, SANTIAGO

APPENDIX B: RULE EMISSION LIMITS [RULE 1171 11-07-2003]

SOLVENT CLEANING ACTIVITY	CURRENT LIMITS
	VOC g/l (lb/gal)
(iii) Medical Devices & Pharmaceuticals	
(A) Tools, Equipment, & Machinery	800 (6.7)
(B) General Work Surfaces	600 (5.0)
(C) Cleaning of Coatings or Adhesives Application Equipment	550 (4.6)
(D) Cleaning of Ink Application Equipment	
(i) General	25 (0.21)
(ii) Flexographic Printing	25 (0.21)
(iii) Gravure Printing	
(A) Publication	750 (6.3)
(B) Packaging	25 (0.21)
(iv) Lithographic or Letter Press Printing	



FACILITY PERMIT TO OPERATE OC WASTE & RECYCLING, SANTIAGO

APPENDIX B: RULE EMISSION LIMITS [RULE 1171 11-07-2003]

SOLVENT CLEANING ACTIVITY	CURRENT LIMITS
	VOC g/l (lb/gal)
(A) Roller Wash – Step 1	600 (5.0)
(B) Roller Wash-Step 2, Blanket Wash, & On-Press Components	800 (6.7)
(C) Removable Press Components	25 (0.21)
(v) Screen Printing	750 (6.3)
(vi) Ultraviolet Ink/ Electron Beam Ink Application Equipment (except screen printing)	800 (6.7)
(vii) Specialty Flexographic Printing	600 (5.0)
(E) Cleaning of Polyester Resin Application Equipment	25 (0.21)



FACILITY PERMIT TO OPERATE OC WASTE & RECYCLING, SANTIAGO

APPENDIX B: RULE EMISSION LIMITS [RULE 1171 02-01-2008]

(1) Solvent Requirements

A person shall not use a solvent to perform solvent cleaning operations unless the solvent complies with the applicable requirements set forth below:

	CURRENT LIMITS*	EFFECTIVE 1/1/2008*	EFFECTIVE 1/1/2009
SOLVENT CLEANING ACTIVITY	VOC g/l (lb/gal)	VOC g/l (lb/gal)	VOC g/l (lb/gal)
(A) Product Cleaning During Manufacturing Process Or Surface Preparation For Coating, Adhesive, Or Ink Application			
(i) General	25 (0.21)		
(ii) Electrical Apparatus Components & Electronic Components	100 (0.83)		
(iii) Medical Devices & Pharmaceuticals	800 (6.7)		
(B) Repair and Maintenance Cleaning			
(i) General	25 (0.21)		
(ii) Electrical Apparatus Components & Electronic Components	100 (0.83)		



FACILITY PERMIT TO OPERATE OC WASTE & RECYCLING, SANTIAGO

APPENDIX B: RULE EMISSION LIMITS [RULE 1171 02-01-2008]

	CURRENT LIMITS*	EFFECTIVE 1/1/2008*	EFFECTIVE 1/1/2009
SOLVENT CLEANING ACTIVITY (cont.)	VOC g/l (lb/gal)	VOC g/l (lb/gal)	VOC g/l (lb/gal)
(iii) Medical Devices & Pharmaceuticals			
(A) Tools, Equipment, & Machinery	800 (6.7)		
(B) General Work Surfaces	600 (5.0)		
(C) Cleaning of Coatings or Adhesives Application Equipment	25 (0.21)		
(D) Cleaning of Ink Application Equipment			
(i) General	25 (0.21)		
(ii) Flexographic Printing	25 (0.21)		
(iii) Gravure Printing			
(A) Publication	100 (0.83)		
(B) Packaging	25 (0.21)		
(iv) Lithographic (Offset) or Letter Press Printing			
(A) Roller Wash, Blanket Wash, & On-Press Components			
(I) Newsprint	100 (0.83)		



FACILITY PERMIT TO OPERATE OC WASTE & RECYCLING, SANTIAGO

APPENDIX B: RULE EMISSION LIMITS [RULE 1171 02-01-2008]

	CURRENT LIMITS*	EFFECTIVE 1/1/2008*	EFFECTIVE 1/1/2009
SOLVENT CLEANING ACTIVITY (cont.)	VOC g/l (lb/gal)	VOC g/l (lb/gal)	VOC g/l (lb/gal)
(II) Other Substrates	500 (4.2)	100 (0.83)	
(B) Removable Press Components	25 (0.21)		
(v) Screen Printing	500 (4.2)	100 (0.83)	
(vi) Ultraviolet Ink/ Electron Beam Ink Application Equipment (except screen printing)	650 (5.4)	650 (5.4)	100 (0.83)
(vii) Specialty Flexographic Printing	100 (0.83)		
(E) Cleaning of Polyester Resin Application Equipment	25 (0.21)		

* The specified limits remain in effect unless revised limits are listed in subsequent columns.



FACILITY PERMIT TO OPERATE OC WASTE & RECYCLING, SANTIAGO

APPENDIX B: RULE EMISSION LIMITS [RULE 404 02-07-1986]

The operator shall not discharge into the atmosphere from this equipment, particulate matter in excess of the concentration at standard conditions, shown in Table 404(a). Where the volume discharged is between figures listed in the Table, the exact concentration permitted to be discharged shall be determined by linear interpolation.

For the purposes of this rule, emissions shall be averaged over one complete cycle of operation or one hour, whichever is the lesser time period.

TABLE 404(a)

Volume Discharged Calculated as Dry Gas At Standard Conditions		Maximum Concentration of Particulate Matter Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions		Volume Discharged Calculated as Dry Gas At Standard Conditions		Maximum Concentration of Particulate Matter Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions	
		Milligrams per Cubic Meter	Grains per Cubic Foot			Milligrams per Cubic Meter	Grains per Cubic Foot
Cubic meters Per Minute	Cubic feet Per Minute			Cubic meters Per Minute	Cubic feet Per Minute		
25 or less	883 or less	450	0.196	900	31780	118	0.0515
30	1059	420	.183	1000	35310	113	.0493
35	1236	397	.173	1100	38850	109	.0476
40	1413	377	.165	1200	42380	106	.0463
45	1589	361	.158	1300	45910	102	.0445



FACILITY PERMIT TO OPERATE OC WASTE & RECYCLING, SANTIAGO

APPENDIX B: RULE EMISSION LIMITS [RULE 404 02-07-1986]

Volume Discharged Calculated as Dry Gas At Standard Conditions		Maximum Concentration of Particulate Matter Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions		Volume Discharged Calculated as Dry Gas At Standard Conditions		Maximum Concentration of Particulate Matter Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions	
		Milligrams per Cubic Meter	Grains per Cubic Foot			Milligrams per Cubic Meter	Grains per Cubic Foot
Cubic meters Per Minute	Cubic feet Per Minute			Cubic meters Per Minute	Cubic feet Per Minute		
50	1766	347	.152	1400	49440	100	.0437
60	2119	324	.141	1500	52970	97	.0424
70	2472	306	.134	1750	61800	92	.0402
80	2825	291	.127	2000	70630	87	.0380
90	3178	279	.122	2250	79460	83	.0362
100	3531	267	.117	2500	88290	80	.0349
125	4414	246	.107	3000	105900	75	.0327
150	5297	230	.100	4000	141300	67	.0293
175	6180	217	.0947	5000	176600	62	.0271
200	7063	206	.0900	6000	211900	58	.0253
250	8829	190	.0830	8000	282500	52	.0227
300	10590	177	.0773	10000	353100	48	.0210
350	12360	167	.0730	15000	529700	41	.0179
400	14130	159	.0694	20000	706300	37	.0162
450	15890	152	.0664	25000	882900	34	.0148



FACILITY PERMIT TO OPERATE OC WASTE & RECYCLING, SANTIAGO

APPENDIX B: RULE EMISSION LIMITS [RULE 404 02-07-1986]

Volume Discharged Calculated as Dry Gas At Standard Conditions		Maximum Concentration of Particulate Matter Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions		Volume Discharged Calculated as Dry Gas At Standard Conditions		Maximum Concentration of Particulate Matter Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions	
		Milligrams per Cubic Meter	Grains per Cubic Foot			Milligrams per Cubic Meter	Grains per Cubic Foot
Cubic meters Per Minute	Cubic feet Per Minute			Cubic meters Per Minute	Cubic feet Per Minute		
500	17660	146	.0637	30000	1059000	32	.0140
600	21190	137	.0598	40000	1413000	28	.0122
700	24720	129	.0563	50000	1766000	26	.0114
800	28250	123	.0537	70000 or more	2472000 or more	23	.0100



SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 Copley Drive, Diamond Bar, CA 91765

