



FACILITY PERMIT TO OPERATE

**LA CNTY SANITATION DISTRICT-PALOS VERDES
26301 S CRENSHAW B & 25704, 06 HAWT
ROLLING HILLS ESTATES, CA 90274**

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 Charles Tupper, for
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**Facility Equipment and Requirements
(Section D)**

This section consists of a table listing equipment that have been issued Permits to Operate, facility wide requirements, all individual Permits to Operate issued to the 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.



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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 No |
|---------------------------|---------------------------------|-------------------------------------|----------------|
| 369150 | F59367 | LANDFILL GAS COLLECTION (>50 WELLS) | 5 |
| 403083 | F59255 | LEACHATE/CONDENSATE TREATMENT | 9 |
| 440825 | F82158 | LANDFILL GAS FLARING STATION | 11 |
| 526209 | G29325 | LANDFILL GAS FLARING SYSTEM | 15 |

NOTE: PERMITS TO CONSTRUCT (IF ANY) ARE LISTED IN SECTION H OF THIS FACILITY PERMIT. 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.



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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, A PERSON SHALL NOT PURCHASE ANY DIESEL FUEL FOR STATIONARY SOURCE APPLICATION IN THE DISTRICT, UNLESS THE FUEL IS LOW SULFUR DIESEL FOR WHICH THE SULFUR CONTENT SHALL NOT EXCEED 15 PPM BY WEIGHT AS SUPPLIED BY THE SUPPLIER.
[RULE 431.2]
4. THE OPERATOR SHALL ONLY USE LANDFILL GAS WITH GROSS HEAT VALUE OF LESS THAN 300 BTU/CF AT STANDARD CONDITIONS, MEASURED ON A WEEKLY BASIS. SUPPLEMENTAL FUEL (NATURAL GAS) SHALL NOT CONTAIN SULFUR OR SULFUR COMPOUND IN EXCESS OF 16 PPMV.
[RULE 431.1]
5. 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 GAS COLLECTION AND CONTROL 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 GAS COLLECTION AND CONTROL SYSTEM TO PREVENT THE CONCENTRATION OF TOC MEASURED AS METHANE FROM EXCEEDING 25 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.
[RULE 1150.1]
- G. OPERATE THE GAS COLLECTION AND CONTROL 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. OPERATE THE GAS COLLECTION AND CONTROL SYSTEM SO THAT THERE ARE NO LEAKS THAT EXCEED 500 PPMV TOC MEASURED AS METHANE AT ANY COMPONENT UNDER POSITIVE PRESSURE.
[RULE 1150.1]
- I. 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]
- J. 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]
- K. OPERATE THE GAS COLLECTION AND CONTROL SYSTEM AT ALL TIMES FOR LANDFILLS WITH ACTIVE COLLECTION SYSTEMS.
[RULE 1150.1]
- L. OPERATE ALL WELLHEADS SO THE GAUGE PRESSURE IS UNDER A CONSTANT VACUUM, EXCEPT DURING WELL HEAD RAISING AND/OR REPAIR AND TEMPORARY SHUTDOWN DUE TO A CATASTROPHIC EVENT.
[RULE 1150.1]



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**Permit No. F59367
A/N 369150**

Equipment Description:

LANDFILL GAS COLLECTION SYSTEM CONSISTING OF:

1. FOUR HUNDRED EIGHTY TWO (482) VERTICAL GAS COLLECTION WELLS AND GAS EXTRACTION PROBES.
2. 3,500 LINEAR FEET OF HORIZONTAL GAS COLLECTION TRENCHES AND THE ASSOCIATED PIPING.
3. SIXTY (60) VERTICAL LANDFILL GAS COLLECTION WELLS AND GAS EXTRACTION PROBES AND 5000 LINEAR FEET OF HORIZONTAL GAS COLLECTION TRENCHES AND ASSOCIATED PIPING TO BE INSTALLED ON "AS NEEDED" BASIS AT THE LOCATION TO BE DETERMINED.

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 SYSTEM SHALL BE OPERATED AND MAINTAINED BY PERSONNEL PROPERLY TRAINED IN ITS OPERATION.
[RULE 204]
4. DURING WELL DRILLING, AN APPROVED EMISSION CONTROL BOX SHALL BE PLACED OVER THE HOLE TO COLLECT LANDFILL GAS. THE COLLECTED GAS SHALL EITHER BE DIRECTED TO AN OPERATING FLARE SYSTEM WHICH HAS A VALID PERMIT ISSUED BY THE AQMD, OR BE VENTED TO A CARBON ADSORPTION UNIT WHICH HAS A SUFFICIENT CAPACITY TO REMOVE VOC EMISSIONS AND ODOR.
[RULE 402]
5. WELL DRILLING, DRIVING AND/OR TRENCHING SHALL NOT BE CONDUCTED BETWEEN THE HOURS OF 6 PM AND 7 AM OR ON SATURDAYS, SUNDAYS AND LEGAL HOLIDAYS, UNLESS OTHERWISE APPROVED BY AQMD.
[RULE 402, 1150]



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6. WELL DRILLING, DRIVING AND/OR TRENCHING SHALL NOT BE CONDUCTED ON DAYS WHEN AQMD FORECASTS FIRST, SECOND OR THIRD STAGE EPISODES FOR AREA NO. 3, OR WHEN AQMD REQUIRES COMPANIES IN AREA NO. 3 TO IMPLEMENT THEIR FIRST, SECOND OR THIRD STAGE EPISODE PLANS. EPISODE FORECASTS FOR THE FOLLOWING DAY CAN BE OBTAINED BY CALLING (800) 445-3826 OR (800) 242-4666.
[RULE 402, 1150]
7. WELL DRILLING, DRIVING AND/OR TRENCHING SHALL NOT BE CONDUCTED WHEN THE WIND SPEED IS GREATER THAN 15 MPH, AVERAGED OVER 15 MINUTES, OR THE WIND SPEED INSTANTANEOUSLY EXCEEDS 25 MPH.
[RULE 402, 403, 1150]
8. 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 1150.1]
9. 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 TRENCHING IS EXPOSED AT ANY TIME PRIOR TO BACKFILLING. THE NUMBER OF EXCAVATION SITES SHALL NOT EXCEED TWO.
[RULE 402, 1150]
10. 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 COVER IF IT IS RAINING OR RAIN IS PREDICTED BY THE NATIONAL WEATHER SERVICE PRIOR TO THE NEXT SCHEDULED WORKING DAY.
[RULE 402, 1150.1]
11. FOR PURPOSES OF THIS PERMIT, CONSTRUCTION SPOILS ARE LANDFILL TRASH MATERIALS THAT ARE MIXED WITH LANDFILL TRASH, MATERIALS THAT HAVE BEEN IN CONTACT WITH LANDFILL TRASH, OR ODOROUS MATERIALS THAT ARE REMOVED FROM WELL HOLES OR TRENCHES.
[RULE 402, 403, 1150]
12. 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 402, 403, 1150]
13. CONSTRUCTION SPOILS SHALL NOT BE STOCKPILED ON SITE. ALL CONSTRUCTION SPOILS SHALL BE DEPOSITED DIRECTLY INTO THE TRUCK OR TRAILER BED WHICH WILL BE HAULED AWAY FOR DISPOSAL. THE TRUCK BEDS OR TRAILERS HAULING THE CONSTRUCTION SPOILS SHALL BE COMPLETELY COVERED WITH AN IMPERMEABLE COVER WITH SUCH COVERS TIED DOWN. ALL SEAMS SHALL BE SEALED TO PREVENT ANY MATERIALS FROM ESCAPING DURING TRANSPORT.



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[RULE 402, 1150]

14. DURING TRANSPORT OF THE CONSTRUCTION SPOILS, NO MATERIAL SHALL EXTEND ABOVE THE SIDES OR REAR OF THE VEHICLE HAULING THE MATERIAL.
[RULE 1150]
15. THE EXTERIOR OF THE VEHICLE (INCLUDING THE TIRES) HAULING THE CONSTRUCTION SPOILS SHALL BE CLEANED PRIOR TO LEAVING THE WORK SITE.
[RULE 1150]
16. 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 AQMD PERSONNEL OR ON-SITE SAFETY COORDINATOR IN THE ABSENCE OF AQMD PERSONNEL.
[RULE 402, 1150]
17. 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 IS MITIGATED AND THE APPROVAL TO RESUME WORK IS RECEIVED FROM THE AQMD.
[RULE 402, 1150]
18. MITIGATION MEASURES, OTHER THAN THOSE INDICATED IN THESE CONDITIONS, WHICH ARE DEEMED APPROPRIATE BY AQMD AS NECESSARY TO PROTECT THE COMFORT, REPOSE, HEALTH OR SAFETY OF THE PUBLIC SHALL BE IMPLEMENTED UPON REQUEST.
[RULE 1150.1]
19. EACH VERTICAL HEAD SHALL BE EQUIPPED WITH A SHUT-OFF VALVE AND A SAMPLING PORT.
[RULE 1150.1]
20. EACH VERTICAL WELL SHALL BE CONNECTED TO AN OPERATING LANDFILL GAS HEADER AS SOON AS POSSIBLE BUT NOT LATER THAN SEVEN (7) DAYS AFTER THE WELL IS INSTALLED.
[RULE 1150, 1150.1]
21. 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]
22. EACH WELL SHALL BE SECURELY SEALED TO PREVENT ESCAPE OF ANY LANDFILL GAS FROM AROUND THE WELL CASING.
[RULE 402, 1150.1]
23. ALL OPENINGS OF THE GAS COLLECTION SYSTEM SHALL BE PROPERLY SEALED TO PREVENT ESCAPE OF GAS INTO THE ATMOSPHERE.
[RULE 402, 1150.1]



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24. ALL GASES COLLECTED BY THIS SYSTEM SHALL BE VENTED TO A COMBUSTION OR PROCESSING FACILITY WHICH IS IN FULL USE AND 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]
25. THE OPERATION OF THIS SYSTEM SHALL NOT RESULT IN THE RELEASE OF ANY RAW LANDFILL GAS OR CONDENSATE INTO THE ATMOSPHERE.
[RULE 402, 1150]
26. THE AQMD SHALL BE NOTIFIED IN WRITING AT LEAST ONE (1) WEEK IN ADVANCE WHEN AN ADDITIONAL TRENCH, WELL, OR SET OF WELLS AND THEIR ASSOCIATED PIPING WILL BE INSTALLED. THE PROPOSED TRENCH OR WELL LOCATIONS AND PIPING SHALL BE IDENTIFIED ON DRAWINGS WHICH SHOW THE ENTIRE GAS COLLECTION SYSTEM. ESTIMATED GAS COLLECTION VOLUME, TRENCH LENGTHS AND DEPTHS, WELL DEPTHS, PIPE LENGTHS, PIPE DIAMETERS AND LAYOUTS SHALL BE INCLUDED IN THIS NOTIFICATION.
[RULE 1150.1]
27. SHORT NOTICE CONSTRUCTION PROJECTS IN RESPONSE TO NOTICE-TO-COMPLY OR MITIGATION OF EXCEEDANCES PURSUANT TO RULE 1150.1 ARE EXEMPT FROM ONE (1) WEEK ADVANCE WRITTEN NOTICES. TELEPHONE, ELECTRONIC MAIL OR OTHER MEANS OF ADVANCE NOTIFICATION SHALL BE SUFFICIENT FOR PROJECT STARTUP. SUCH COMMUNICATION SHALL INCLUDE THE LOCATION AND A BRIEF DESCRIPTION OF THE PROJECT, THE CURRENT, PROPOSED, AND THE PERMIT LIMITS FOR WELL COUNTS AND HORIZONTAL TRENCH LENGTHS. WRITTEN NOTIFICATION OF THE ABOVE DESCRIBED REQUIREMENTS SHALL BE PROVIDED TO THE SCAQMD AS SOON AS POSSIBLE BUT NOT LATER THAN 30 DAYS OF THE PROJECT STARTUP DATE.
[RULE 1150.1]
28. WITHIN 30 DAYS AFTER CONSTRUCTION OF A GROUP OF WELLS AND THE ASSOCIATED PIPING IS COMPLETE, THE PERMITTEE SHALL SUBMIT AS BUILT DRAWINGS IN DUPLICATE TO THE AQMD.
[RULE 1150.1]

Emissions And Requirements:

29. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENT OF THE FOLLOWING RULES AND REGULATION:

GASEOUS EMISSIONS: RULE 1150.1



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**Permit No. F59255
A/N 403083**

Equipment Description:

LANDFILL LEACHATE / CONDENSATE TREATMENT SYSTEM, CONSISTING OF:

1. OIL/WATER SEPARATOR, GRAVITY TYPE, 2035 GALLON CAPACITY, VENTED TO THE LANDFILL GAS COLLECTION SYSTEM.
2. COLLECTION SUMP TANK, 4' DIA. X 12.5' H., VENTED TO THE LANDFILL GAS COLLECTION SYSTEM.
3. TWO (2) CONTAMINATED WATER STORAGE / EQUALIZATION TANKS, 6,500 GALLON EACH, VENTED TO THE LANDFILL GAS COLLECTION SYSTEM.
4. 120 GPM CAPACITY AIR STRIPPING SYSTEM, 4' L. X 3'-10" W. X 8' H., WITH MAXIMUM 850 CFM AIR FLOW, INDUCED BY LANDFILL GAS COLLECTION SYSTEM.
5. CLARIFIER WITH MIX TANK AND FLOCCULATION TANK, AND CAUSTIC STORAGE TANK
6. SLUDGE STORAGE TANK, VENTED TO THE LANDFILL GAS COLLECTION SYSTEM.
7. AND ASSOCIATED TRANSFER PUMPS.

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 USE.
[RULE 204]
4. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS THE OIL/WATER SEPARATOR, SUMP TANK, CONTAMINATED WATER STORAGE TANKS, AIR STRIPPER, AND SLUDGE STORAGE TANK ARE VENTED TO THE LANDFILL GAS COLLECTION SYSTEM OR TO AN AIR POLLUTION CONTROL EQUIPMENT THAT HAS BEEN ISSUED A PERMIT TO CONSTRUCT OR OPERATE BY THE SOUTH COAST AQMD.
[RULE 1303(a)(1)-BACT]



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5. TANKS WITH OVERFLOW PIPES SHALL BE EQUIPPED WITH HIGH LIQUID LEVEL SHUT OFF SYSTEM TO PREVENT THE OVERFLOW OF CONTAMINATED WATER FROM THE TANKS.
[RULE 402, RULE 1150.1]
6. CONTAMINATED WATER TREATED BY THIS SYSTEM SHALL NOT EXCEED 172,000 GALLONS PER DAY. NON-RESETABLE FLOW METERS SHALL BE INSTALLED AT ALL FINAL DISCHARGE POINTS OF THE SYSTEM TO INDICATE THE DAILY FLOW RATE OF TREATED WATER. IN ADDITION, RECORDS SHALL BE MAINTAINED TO INDICATE DAILY VOLUME OF CONTAMINATED WATER TREATED.
[RULE 1303(b)(2)-OFFSET]
7. SLUDGE GENERATED FROM THIS SYSTEM SHALL REMAIN IN SLUDGE STORAGE TANK UNLESS IT IS REMOVED FOR TRANSPORT TO A DIFFERENT FACILITY FOR DEWATERING AND/OR DISPOSAL.
[RULE 402]
8. TREATED WATER OR SLUDGE SHALL NOT BE DISPOSED BACK INTO THE LANDFILL.
[RULE 402, RULE 1150.1]
9. RECORDS REQUIRED BY THIS PERMIT SHALL BE MAINTAINED FOR A MINIMUM OF FIVE YEARS AND MADE AVAILABLE TO THE AQMD PERSONNEL UPON REQUEST. AT MINIMUM THE MOST RECENT TWO YEARS OF RECORDS SHALL BE RETAINED ON SITE.
[RULE 3004 (a)(4)]



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**Permit No. F82158
A/N 440825**

Equipment Description:

LANDFILL GAS FLARING STATION CONSISTING OF:

1. SIX (6) FLARES, EACH 8'-0" DIA X 16'-0" HIGH, WITH AUTOMATIC COMBUSTION AIR LOUVERS.
2. FOUR (4) LANDFILL GAS BLOWERS.

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. EACH FLARE SHALL BE EQUIPPED WITH A TEMPERATURE INDICATORS AND RECORDERS WHICH MEASURE AND RECORD THE GAS TEMPERATURE IN THE FLARE STACK. THE TEMPERATURE INDICATORS AND RECORDERS SHALL OPERATE WHENEVER THE RESPECTIVE FLARES ARE IN OPERATION.
[RULE 1303(a)(1)-BACT]
5. WHENEVER A FLARE IS IN OPERATION, A TEMPERATURE OF NOT LESS THAN 1500 DEGREES FAHRENHEIT (15 MINUTES AVERAGE) SHALL BE MAINTAINED IN THE FLARE STACK AS MEASURED BY THE TEMPERATURE INDICATOR AND RECORDER EXCEPT DURING PERIODS OF STARTUP AND SHUTDOWN. STARTUP IS DEFINED AS THE PERIOD FROM FLARE IGNITION TO THE TIME WHEN 1500 DEGREES FAHRENHEIT IS ACHIEVED, NOT TO EXCEED 30 MINUTES. SHUTDOWN IS THE PERIOD FROM WHEN THE GAS VALVE BEGINS TO BE SHUT, AND THE TEMPERATURE DECLINES TO ZERO DEGREES, NOT TO EXCEED 30 MINUTES.
[RULE 1303(a)(1)-BACT]



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6. THE OPERATOR SHALL OPERATE AND MAINTAIN THIS EQUIPMENT ACCORDING TO THE FOLLOWING REQUIREMENTS:

CONTINUOUS EXHAUST TEMPERATURE MONITORING AND RECORDING SYSTEM SHALL BE PURSUANT TO THE OPERATION AND MAINTENANCE REQUIREMENTS SPECIFIED IN 40 CFR PART 64.7. SUCH A SYSTEM SHALL HAVE AN ACCURACY OF WITHIN $\pm 1\%$ OF THE TEMPERATURE BEING MONITORED AND SHALL BE INSPECTED, MAINTAINED, AND CALIBRATED ON AN ANNUAL BASIS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS USING AN APPLICABLE AQMD OR EPA APPROVED METHOD.

FOR THE PURPOSE OF THIS CONDITION, A DEVIATION SHALL BE DEFINED AS WHEN A TEMPERATURE OF LESS THAN 1,500 DEGREES FAHRENHEIT OCCURS DURING NORMAL OPERATION EXCEPT DURING STARTUPS OR SHUTDOWNS. NOT TO EXCEED 30 MINUTES. THE EXHAUST TEMPERATURE SHALL BE AVERAGED OVER A 15-MINUTE PERIOD, AND HOURLY AVERAGE SHALL BE COMPUTED FROM SUCH DATA POINTS. THE OPERATOR SHALL REVIEW THE RECORDS OF TEMPERATURE ON A DAILY BASIS TO DETERMINE IF A DEVIATION OCCURS OR SHALL INSTALL AN ALARM SYSTEM TO ALERT THE OPERATOR WHEN A DEVIATION OCCURS.

FOR EACH SEMI-ANNUAL REPORTING PERIOD SPECIFIED IN CONDITION NO. 23 IN SECTION K, WHENEVER A DEVIATION OCCURS FROM 1,500 DEGREES FAHRENHEIT, THE OPERATOR SHALL TAKE IMMEDIATE CORRECTIVE ACTION, AND KEEP RECORDS OF THE DURATION AND CAUSE (INCLUDING UNKNOWN CAUSE, IF APPLICABLE) OF THE DEVIATION AND THE CORRECTIVE ACTION TAKEN.

ALL DEVIATIONS SHALL BE REPORTED TO THE AQMD ON A SEMI-ANNUAL BASIS PURSUANT TO THE REQUIREMENTS SPECIFIED IN 40 CFR PART 64.9 AND CONDITION NOS. 22 AND 23 IN SECTION K OF THIS PERMIT.

THE OPERATOR SHALL SUBMIT AN APPLICATION WITH A QUALITY IMPROVEMENT PLAN (QIP) IN ACCORDANCE WITH 40 CFR PART 64.8 TO THE AQMD IF AN ACCUMULATION OF DEVIATIONS EXCEEDS 5 PERCENT DURATION OF THIS EQUIPMENT'S TOTAL OPERATING TIME FOR ANY SEMI-ANNUAL REPORTING PERIOD SPECIFIED IN CONDITION NO. 23 IN SECTION K OF THIS PERMIT. THE REQUIRED QIP SHALL BE SUBMITTED TO THE AQMD WITHIN 90 CALENDAR DAYS AFTER THE DUE DATE FOR THE SEMI-ANNUAL MONITORING REPORT.

THE OPERATOR SHALL KEEP ADEQUATE RECORDS IN A FORMAT THAT IS ACCEPTABLE TO THE AQMD TO DEMONSTRATE COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS SPECIFIED IN THIS CONDITION AND 40 CFR PART 64.9 FOR A MINIMUM OF FIVE YEARS.
[40CFR PART 64]

7. EACH FLARE SHALL BE EQUIPPED WITH AN AUTOMATIC PILOT RE-START SYSTEM APPROVED BY THE EXECUTIVE OFFICER.
[RULE 1303(a)(1)-BACT]
8. EACH FLARE SHALL BE EQUIPPED WITH A FAILURE ALARM WITH AUTOMATIC SYSTEM, WHICH HAS BEEN APPROVED BY THE EXECUTIVE OFFICER, TO AUTOMATICALLY ISOLATE THE FLARE FROM THE LANDFILL GAS SUPPLY LINE, AND SHUT OFF THE BLOWERS WHEN FAILURE OF THE ENTIRE FLARING STATION OCCURS.



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- [RULE 1303(a)(1)-BACT]
9. AMBIENT METHANE ANALYZERS APPROVED BY THE EXECUTIVE OFFICER SHALL BE MAINTAINED AROUND THE FLARE STATION IN THE VICINITY OF THE BLOWERS AND POSITIVE PRESSURE LANDFILL GAS PIPELINES TO MONITOR FOR LINE BREAKS AND MAJOR LEAKS.
[RULE 204, RULE 1150.1]
 10. A PRESSURE SENSING DEVICE WITH AN AUTOMATIC BLOWER SHUT-OFF SYSTEM APPROVED BY THE EXECUTIVE OFFICER SHALL BE INSTALLED IN THE BLOWER DISCHARGE LINE TO DETECT PRESSURE DROP DUE TO LANDFILL GAS LEAKS.
[RULE 1303(a)(1)-BACT]
 11. THE SAFETY SYSTEM SPECIFIED IN CONDITION NUMBER 7 SHALL BE TESTED MONTHLY FOR PROPER OPERATION AND THE RESULTS RECORDED.
[RULE 1303(a)(1)-BACT, RULE 204]
 12. A FLOW INDICATING AND RECORDING DEVICE APPROVED BY THE EXECUTIVE OFFICER SHALL BE INSTALLED IN THE LANDFILL GAS SUPPLY LINE TO THE FLARE STATION TO MEASURE AND RECORD THE QUANTITY OF LANDFILL GAS BEING BURNED IN THE FLARE STATION. THIS FLOW INDICATING AND RECORDING DEVICE SHALL OPERATE WHENEVER THE FLARE STATION IS IN OPERATION.
[RULE 1303(b)(2)-OFFSET]
 13. ALL RECORDING DEVICES SHALL BE SYNCHRONIZED WITH RESPECT TO THE TIME OF DAY.
[RULE 204]
 14. THE EMISSION OF NITROGEN OXIDES (NOX) FROM EACH FLARE SHALL NOT EXCEED 0.06 POUNDS PER MILLION BTU'S INLET GAS.
[RULE 1303(a)(1)-BACT]
 15. ANY BREAKDOWN OR MALFUNCTION OF THE LANDFILL GAS FLARING SYSTEM RESULTING IN THE EMISSION OF RAW LANDFILL GAS SHALL BE REPORTED TO THE AQMD WITHIN ONE HOUR AFTER OCCURRENCE, AND IMMEDIATE REMEDIAL MEASURE SHALL BE UNDERTAKEN TO CORRECT THE PROBLEM AND PREVENT FURTHER EMISSION EMISSIONS INTO THE ATMOSPHERE IN ACCORDANCE WITH AQMD RULE 430 REQUIREMENTS.
[RULE 430]
 16. COMPLIANCE WITH CONDITION NUMBERS 14 AND 17 OF THIS PERMIT SHALL BE DEMONSTRATED BY USING AQMD APPROVED TEST PROCEDURES.
RULE 1303(a)(1)-BACT, RULE 204]
 17. LANDFILL GAS ENTERING THE FLARE STATION SHALL BE ANALYZED WEEKLY FOR METHANE CONCENTRATION. RESULTS SHALL BE RECORDED AND PROVIDED TO THE DISTRICT UPON REQUEST.
[RULE 1150.1]
 18. THE FLAME IN EACH FLARE SHALL REMAIN BELOW THE HEIGHT OF THE FLARE'S TEMPERATURE INDICATOR AT ALL TIMES.
[RULE 1303(a)(1)-BACT]



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19. ALL RECORDS SHALL BE KEPT FOR A PERIOD OF FIVE (5) YEARS AND MADE AVAILABLE TO THE AQMD PERSONNEL UPON REQUEST.
[RULE 1150.1, RULE 3004(a)(4)]

Emissions And Requirements:

20. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENT OF THE FOLLOWING RULES AND REGULATION:
- CO: 2000 PPMV, RULE 407
 - SOx: 500 PPMV, RULE 407
 - PM: 0.1 GRAIN/CF, RULE 409
 - PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMIT
 - VOC: 20 PPMV AS HEXANE (DRY @ 3% O₂) OR 98% DESTRUCTION EFFICIENCY, RULE 1150.1



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PERMIT TO OPERATE

**Permit No. G29325
A/N 526209**

Equipment Description:

LANDFILL GAS FLARING SYSTEM CONSISTING OF:

1. LIQUID KNOCKOUT/PARTICULATE REMOVAL VESSEL, JOHN ZINK, 2'-6", DIA. X 6'-0" H.
2. THREE BLOWERS, LANDFILL GAS, EACH MAXIMUM FLOW RATE 3000 SCFM, COMMON TO THE EXISTING FLARE STATION.
3. FLARE, JOHN ZINK, ZULE, 13'-0" DIA. X 35'-0" H., 75.6 MMBTU/HR, LANDFILL GAS FIRED, AUGMENTED WITH NATURAL GAS, WITH A MULTI JET BURNER, A PROPANE GAS PILOT, ELECTRIC IGNITER, UV FLAME SENSOR, THERMOCOUPLE WITH TEMPERATURE INDICATOR AND RECORDER, AUTOMATIC SHUTDOWN AND ALARM SYSTEM, AUTOMATIC COMBUSTION AIR REGULATING SYSTEM, TEMPERATURE CONTROLLER AND FLAME ARRESTOR.

Conditions:

1. CONSTRUCTION AND 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. NON-RESETTABLE FLOW MONITORING AND RECORDING DEVICES SHALL BE INSTALLED AND OPERATED IN THE LANDFILL GAS AND NATURAL GAS SUPPLY LINES TO THIS SYSTEM TO CONTINUOUSLY MEASURE AND RECORD THE LANDFILL GAS AND NATURAL GAS CONSUMPTION IN STANDARD CUBIC FEET PER MINUTE.
[RULE 1303(b)(2)-OFFSET]
5. ALL RECORDING DEVICES SHALL BE SYNCHRONIZED WITH RESPECT TO THE TIME OF DAY.
[RULE 1303(b) (2)-OFFSET]
6. THE TOTAL FLOW RATE OF LANDFILL GAS TO THE FLARE SHALL NOT EXCEED 8100 SCFM AT 150 BTU/SCF (OR EQUIVALENT).
[RULE 1303 (b) (2)-OFFSET]



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7. THE MAXIMUM HEATING VALUE TO THE FLARE SHALL NOT EXCEED 75.6 MILLION BTU PER HOUR. THE METHANE CONTENT OF THE LANDFILL GAS SHALL BE MONITORED AND RECORDED WEEKLY. THE HEATING VALUE SHALL BE CALCULATED AND RECORDED WEEKLY BASED ON THE FOLLOWING EQUATION:

$$\text{MM BTU/HR} = [\text{LANDFILL GAS METHANE CONTENT (BTU/SCF)} \times \text{FLOW RATE (SCFM)} + \text{NATURAL GAS METHANE CONTENT (BTU/SCF)} \times \text{FLOW RATE (SCFM)}] \times 60 \text{ MIN/HR.}$$

[RULE 1303(b)(2)-OFFSET]
8. THE FLARE SHALL ONLY BE FIRED WITH LANDFILL GAS OR A BLEND OF LANDFILL GAS AND NATURAL GAS FUEL. NATURAL GAS SHALL ONLY BE USED FOR START-UP AND WHEN THE LANDFILL GAS HEATING VALUE IS NOT SUFFICIENT TO SUPPORT GOOD COMBUSTION. TO ASSIST GOOD COMBUSTION ONLY, NATURAL GAS SHALL BE BLENDED WITH LANDFILL GAS AT OR BEFORE THE FLARE INLETS.
[RULE 1303(a)(1)-BACT]
9. THIS FLARE SHALL BE USED TO COMBUST ALL LANDFILL GAS COLLECTED EXCEPT DURING EQUIPMENT UPSETS WHERE LANDFILL GAS CANNOT BE IMMEDIATELY HANDLED BY THIS FLARE. IN THESE CASES, THE LANDFILL GAS MAY BE DIRECTED TO THE STANDBY FLARE STATION.
[RULE 1303(b)(2)-OFFSET]
10. ALL LANDFILL GAS COLLECTED SHALL BE DIRECTED TO A LANDFILL GAS CONTROL SYSTEM WHICH HAS BEEN ISSUED A VALID PERMIT BY THE AQMD.
[RULE 1150.1, 1303(a)(1)-BACT]
11. WHENEVER THE FLARE IS IN OPERATION, A TEMPERATURE OF NOT LESS THAT 1500 DEGREES FAHRENHEIT AS MEASURED BY THE TEMPERATURE INDICATOR SHALL BE MAINTAINED IN THE FLARE STACK, EXCEPT DURING PERIODS OF STARTUP AND SHUTDOWN. STARTUP IS DEFINED AS THE PERIOD FROM FLARE IGNITION TO THE TIME WHEN 1500 DEGREES FAHRENHEIT IS ACHIEVED, NOT TO EXCEED 30 MINUTES. SHUTDOWN IS THE PERIOD FROM WHEN THE GAS VALVE BEGINS TO BE SHUT AND COMPLETELY SHUTS OFF, NOT TO EXCEED 30 MINUTES. THE THERMOCOUPLE USED TO MEASURE THE TEMPERATURE SHALL BE ABOVE THE FLAME ZONE AND AT LEAST 3 FEET BELOW THE TOP OF THE FLARE SHROUD AND AT LEAST 0.6 SECONDS DOWNSTREAM OF THE BURNER.
[RULE 1150.1, 1303(a) (1)-BACT]
12. A SAMPLING PORT SHALL BE INSTALLED AT THE INLET GAS LINE TO THE FLARE.
[RULE 217]
13. A SET OF FOUR SAMPLING PORTS SHALL BE INSTALLED IN THE FLARE SHROUD AND LOCATED AT LEAST TWO FEET ABOVE THE FLAME ZONE AND AT LEAST THREE FEET BELOW THE TOP OF THE FLARE SHROUD. EACH PORT SHALL BE INSTALLED AT 90 DEGREES APART, AND SHALL CONSIST OF FOUR INCH COUPLINGS WITH PLUGS. ADEQUATE AND SAFE ACCESS TO ALL TEST PORTS SHALL BE PROVIDED.
[RULE 217]



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14. THE SAMPLING PORTS SHALL BE MAINTAINED ON THE FLARE STACK. ADEQUATE AND SAFE ACCESS TO ALL SOURCE TEST PORTS SHALL BE PROVIDED BY THE APPLICANT WITHIN TWENTY FOUR (24) HOURS OF A REQUEST BY THE AQMD TO CONDUCT A TEST.
[RULE 217]
15. THE SKIN TEMPERATURE OF THE FLARE SHROUD WITHIN FOUR FEET OF ALL THE SOURCE TEST PORTS SHALL NOT EXCEED 250 DEGREES F. IF A HEAT SHIELD IS REQUIRED TO MEET THIS REQUIREMENT, ITS DESIGN SHALL BE APPROVED BY THE AQMD PRIOR TO CONSTRUCTION. THE HEAT SHIELD, IF REQUIRED TO MEET THE TEMPERATURE REQUIREMENT, SHALL BE IN PLACE WHENEVER A SOURCE TEST IS CONDUCTED BY THE AQMD.
[RULE 217]
16. PRIOR TO OPERATING THIS EQUIPMENT, A SUFFICIENT NUMBER OF SIGHT GLASS WINDOWS SHALL BE INSTALLED IN THE FLARE TO ALLOW VISUAL INSPECTION OF THE FLAME AND THERMOCOUPLE LOCATION WITHIN THE FLARE AT ALL TIMES. PERMANENT AND SAFE ACCESS SHALL BE PROVIDED FOR ALL SIGHT GLASS WINDOWS.
[RULE 1303(a)(1)-BACT, 217]
17. THE FLARE SHALL BE EQUIPPED WITH AN AUTOMATIC DAMPER SYSTEM TO REGULATE THE FLOW OF COMBUSTION AIR.
[RULE 1303(a)(1)-BACT]
18. THE FLARE SHALL BE EQUIPPED WITH A CONTINUOUS 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.
[RULE 1150.1, 1303(a) (1)-BACT]
19. THE OPERATOR SHALL OPERATE AND MAINTAIN THIS EQUIPMENT ACCORDING TO THE FOLLOWING REQUIREMENTS:

THE EXHAUST TEMPERATURE SHALL BE MAINTAINED AT A MINIMUM OF 1,500 DEGREES FAHRENHEIT WHENEVER THE EQUIPMENT IT SERVES IS IN OPERATION.

CONTINUOUS EXHAUST TEMPERATURE MONITORING AND RECORDING SYSTEM SHALL BE PURSUANT TO THE OPERATION AND MAINTENANCE REQUIREMENTS SPECIFIED IN 40 CFR PART 64.7. SUCH A SYSTEM SHALL HAVE AN ACCURACY OF WITHIN $\pm 1\%$ OF THE TEMPERATURE BEING MONITORED AND SHALL BE INSPECTED, MAINTAINED, AND CALIBRATED ON AN ANNUAL BASIS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS USING AN APPLICABLE AQMD OR EPA APPROVED METHOD.

FOR THE PURPOSE OF THIS CONDITION, A DEVIATION SHALL BE DEFINED AS WHEN A TEMPERATURE OF LESS THAN 1,500 DEGREES FAHRENHEIT OCCURS DURING NORMAL OPERATION EXCEPT DURING STARTUPS OR SHUTDOWNS. NOT TO EXCEED 30 MINUTES. THE EXHAUST TEMPERATURE SHALL BE AVERAGED OVER A 15-MINUTE PERIOD, AND HOURLY AVERAGE SHALL BE COMPUTED FROM SUCH DATA POINTS. THE OPERATOR SHALL REVIEW THE RECORDS OF TEMPERATURE ON A DAILY BASIS TO DETERMINE IF A DEVIATION OCCURS OR SHALL INSTALL AN ALARM SYSTEM TO ALERT THE OPERATOR WHEN A DEVIATION OCCURS.



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FOR EACH SEMI-ANNUAL REPORTING PERIOD SPECIFIED IN CONDITION NO. 23 IN SECTION K, WHENEVER A DEVIATION OCCURS FROM 1,500 DEGREES FAHRENHEIT, THE OPERATOR SHALL TAKE IMMEDIATE CORRECTIVE ACTION, AND KEEP RECORDS OF THE DURATION AND CAUSE (INCLUDING UNKNOWN CAUSE, IF APPLICABLE) OF THE DEVIATION AND THE CORRECTIVE ACTION TAKEN.

ALL DEVIATIONS SHALL BE REPORTED TO THE AQMD ON A SEMI-ANNUAL BASIS PURSUANT TO THE REQUIREMENTS SPECIFIED IN 40 CFR PART 64.9 AND CONDITION NOS. 22 AND 23 IN SECTION K OF THIS PERMIT.

THE OPERATOR SHALL SUBMIT AN APPLICATION WITH A QUALITY IMPROVEMENT PLAN (QIP) IN ACCORDANCE WITH 40 CFR PART 64.8 TO THE AQMD IF AN ACCUMULATION OF DEVIATIONS EXCEEDS 5 PERCENT DURATION OF THIS EQUIPMENT'S TOTAL OPERATING TIME FOR ANY SEMI-ANNUAL REPORTING PERIOD SPECIFIED IN CONDITION NO. 23 IN SECTION K OF THIS PERMIT. THE REQUIRED QIP SHALL BE SUBMITTED TO THE AQMD WITHIN 90 CALENDAR DAYS AFTER THE DUE DATE FOR THE SEMI-ANNUAL MONITORING REPORT.

THE OPERATOR SHALL INSPECT AND MAINTAIN ALL COMPONENTS OF THIS EQUIPMENT ON AN ANNUAL BASIS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE OPERATOR SHALL KEEP ADEQUATE RECORDS IN A FORMAT THAT IS ACCEPTABLE TO THE AQMD TO DEMONSTRATE COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS SPECIFIED IN THIS CONDITION AND 40 CFR PART 64.9 FOR A MINIMUM OF FIVE YEARS.
[RULE 3004(A) (4)-PERIODIC MONITORING, 40CFR PART 64]

20. THE FLARE SHALL BE EQUIPPED WITH AN AUTOMATIC PILOT RESTART SYSTEM APPROVED BY THE AQMD. THE AUTOMATIC PILOT RESTART SHALL BE CHECKED WEEKLY AND RESULTS RECORDED.
[RULE 1303(a)(1)-BACT, 3004]
21. A FLARE FAILURE ALARM WITH AUTOMATIC BLOWER AND LANDFILL GAS SUPPLY VALVE SHUT-OFF SYSTEM, APPROVED BY THE AQMD, SHALL BE INSTALLED. THIS SYSTEM SHALL BE TESTED MONTHLY FOR PROPER OPERATION AND RESULTS RECORDED.
[RULE 1303(a)(1)-BACT]
22. AMBIENT METHANE ANALYZERS SHALL BE INSTALLED AROUND THE FLARE STATION IN THE VICINITY OF THE BLOWERS AND POSITIVE PRESSURE LANDFILL GAS PIPELINES TO MONITOR FOR LINE BREAKS AND MAJOR LEAKS. AN ALARM SYSTEM AND SUBSEQUENT BLOWER SHUTDOWN SHALL BE ACTIVATED BY ANY ONE OF THE MONITORS WHEN SPECIFIED CONCENTRATIONS ARE MEASURED. THIS SYSTEM SHALL BE TESTED MONTHLY FOR PROPER OPERATION AND RESULTS RECORDED.
[RULE 1303(a) (1)-BACT]
23. OPERATOR SHALL ANNUALLY CONDUCT EQUIPMENT PERFORMANCE TESTS IN ACCORDANCE WITH AQMD APPROVED TESTS PROTOCOL, PURSUANT TO THE SOURCE TESTING AND ANALYTICAL METHODS. WRITTEN RESULTS SHALL BE SUBMITTED TO AQMD WITHIN 45 DAYS OF THE TESTS. WRITTEN NOTICE OF THE PERFORMANCE TESTS SHALL BE PROVIDED TO THE AQMD 10 DAYS PRIOR TO TESTING SO THAT AN OBSERVER MAY BE PRESENT. THE TESTS SHALL BE CONDUCTED AT THE MAXIMUM RATED HEAT INPUT WITH THE AS FUELED



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MIXTURE OF LANDFILL GAS AND NATURAL GAS. THE TEST SHALL INCLUDE, BUT MAY NOT BE LIMITED TO, A TEST OF THE INLET GAS TO THE FLARE AND THE EXHAUST OF THE FLARE 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)
 - H. CARBON DIOXIDE
 - I. RULE 1150.1, TABLE 1 COMPOUNDS
 - J. OXYGEN
 - K. NITROGEN
 - L. MOISTURE CONTENT
 - M. TEMPERATURE
 - N. FLOW RATE
- [RULE 1303(b) (2)-OFFSET, 1401]

24. EMISSIONS RESULTING FROM THE FLARE SHALL NOT EXCEED THE FOLLOWING:

| POLLUTANT | LBS/HR |
|----------------|--------|
| ROG, AS HEXANE | 1.23 |
| NOX | 1.89 |
| SOX | 3.39 |
| CO | 4.46 |
| PM | 1.15 |

[RULE 1303(b) (2)-OFFSET]

25. THE OPERATION OF THIS EQUIPMENT SHALL NOT RESULT IN THE RELEASE OF LANDFILL GAS INTO THE ATMOSPHERE. ANY BREAKDOWN OR MALFUNCTION WHICH RESULTS IN EMISSION OF LANDFILL GAS SHALL BE REPORTED TO THE AQMD WITHIN ONE HOUR AFTER OCCURRENCE OR WITHIN ONE HOUR OF THE TIME THE OPERATING PERSONNEL KNEW OR REASONABLY SHOULD HAVE KNOWN OF THE OCCURRENCE. IMMEDIATE REMEDIAL MEASURES SHALL BE UNDERTAKEN TO CORRECT THE PROBLEM AND PREVENT FURTHER EMISSIONS INTO THE ATMOSPHERE.

[RULE 402, 430]

26. ALL RECORDS SHALL BE KEPT FOR A PERIOD OF AT LEAST FIVE (5) YEARS AND SHALL BE MADE AVAILABLE TO THE AQMD UPON REQUEST.

[RULE 1150.1, 303(b)(2)-OFFSET]

Emissions and Requirements:

- 27. NMOC: 20 PPMV OR 98 % WEIGHT REDUCTION, RULE 1150.1, 40 CFR 63 SUBPART AAAA
- NOX: 0.025 LBS/MMBTU, RULE 1303(a) (1)-BACT
- SOx: 150 PPMV, RULE 431.1
- CO: 0.06 LBS/MMBTU, RULE 1303(a) (1)-BACT
- CO: 2000 PPMV, RULE 407
- PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
- PM: 0.1 GR/SCF, RULE 404



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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, AIR CONDITIONING UNITS

Emissions And Requirements:

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

REFRIGERANT: RULE 1415
REFRIGERANT: 40CFR 82 SUBART F