



FACILITY PERMIT TO OPERATE

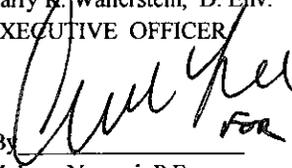
**LA COUNTY SANITATION DIST (CALABASAS)
5200-300 LOST HILLS RD
AGOURA, CA 91301**

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
LA COUNTY SANITATION DIST (CALABASAS)**

TABLE OF CONTENTS

Section	Description	Revision #	Date Issued
A	Facility Information	2	03/23/2012
B	RECLAIM Annual Emission Allocation	1	03/23/2012
C	Facility Plot Plan	TO BE DEVELOPED	
D	Facility Description and Equipment Specific Conditions	3	06/04/2013
E	Administrative Conditions	1	03/23/2012
F	RECLAIM Monitoring and Source Testing Requirements	1	03/23/2012
G	Recordkeeping and Reporting Requirements for RECLAIM Sources	1	03/23/2012
H	Permit To Construct and Temporary Permit to Operate	3	06/04/2013
I	Compliance Plans & Schedules	1	03/23/2012
J	Air Toxics	1	03/23/2012
K	Title V Administration	2	03/23/2012
Appendix			
A	NOx and SOx Emitting Equipment Exempt From Written Permit Pursuant to Rule 219	1	03/23/2012
B	Rule Emission Limits	1	03/23/2012



**FACILITY PERMIT TO OPERATE
LA COUNTY SANITATION DISTRICT (CALABASAS)**

**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.



**FACILITY PERMIT TO OPERATE
LA COUNTY SANITATION DISTRICT (CALABASAS)**

PERMITTED EQUIPMENT LIST

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

Application No.	Permit to Operate No.	Equipment description	Pg. No.
220691	R-D37812	STORAGE TANK OTHER W/CTL GASOLINE	5
322631	R-F4701	STORAGE TANK MISC MATERIALS	7
322632	R-F4700	STORAGE TANK MISC MATERIALS	8
331544	F10379	AIR STRIPPING	9
337534	F15737	LANDFILL CONDENSATE/LEACHATE/COLLECTION	10
340995	F38574	STORAGE TANK MISC MATERIALS	12
340997	F38575	STORAGE TANK MISC MATERIALS	13
340998	F38576	STORAGE TANK MISC MATERIALS	14
340999	F38577	STORAGE TANK MISC MATERIALS	15
341000	F38578	STORAGE TANK MISC MATERIALS	16
341004	F38579	STORAGE TANK MISC MATERIALS	17
341006	F38580	STORAGE TANK MISC MATERIALS	18
341009	F38581	STORAGE TANK MISC MATERIALS	19
341029	F51198	LANDFILL GAS COLLECTION (>50 WELLS)	20
440826	F77394	FLARE, ENCLOSED LANDFILL/DIGESTER GAS	25
501731	G8396	AIR STRIPPING	30
458588	G24676	LANDFILL GAS CONTROL AND LANDFILL GAS TO ENERGY SYSTEM NO. 1 (GAS TURBINE)	32
458589	G24677	LANDFILL GAS CONTROL AND LANDFILL GAS TO ENERGY SYSTEM NO. 2 (GAS TURBINE)	38
458590	G24678	LANDFILL GAS CONTROL AND LANDFILL GAS TO ENERGY SYSTEM NO. 3 (GAS TURBINE)	44



**FACILITY PERMIT TO OPERATE
LA COUNTY SANITATION DISTRICT (CALABASAS)**

FACILITY WIDE CONDITION(S)

Condition(s):

1. EXCEPT FOR OPEN ABRASIVE BLASTING OPERATIONS, THE OPERATOR SHALL NOT DISCHARGE INTO THE ATMOSPHERE FROM ANY SINGLE SOURCE OF EMISSIONS WHATSOEVER ANY AIR CONTAMINANT FOR A PERIOD OR PERIODS AGGREGATING MORE THAN THREE MINUTES IN ANY ONE HOUR WHICH IS:
 - A. AS DARK OR DARKER IN SHADE AS THAT DESIGNATED NO. 1 ON THE RINGLEMANN CHART, AS PUBLISHED BY THE UNITED STATES BUREAU OF MINES; OR
 - B. OF SUCH OPACITY AS TO OBSCURE AN OBSERVER'S VIEW TO A DEGREE EQUAL TO OR GREATER THAN DOES SMOKE DESCRIBED IN SUBPARAGRAPH (A) OF THIS CONDITION.
[RULE 401]

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

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

4. 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

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.



**FACILITY PERMIT TO OPERATE
LA COUNTY SANITATION DISTRICT (CALABASAS)**

[RULE 1150.1]

- 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]



**FACILITY PERMIT TO OPERATE
LA COUNTY SANITATION DISTRICT (CALABASAS)**

PERMIT TO OPERATE

**Permit No. R-D37812
A/N 220691**

Equipment Description:

FUEL STORAGE AND DISPENSING FACILITY CONSISTING OF

1. ONE GASOLINE ABOVEGROUND STORAGE TANK, CONVAULT, 1000 GALLON CAPACITY, EQUIPPED WITH PHASE I VAPOR RECOVERY SYSTEM.
2. ONE GASOLINE DISPENSING NOZZLE, EQUIPPED WITH PHASE II VAPOR RECOVERY SYSTEM.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE OPERATED IN COMPLIANCE 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. PHASE I VAPOR RECOVERY SYSTEMS SHALL BE IN FULL OPERATION WHENEVER FUEL IS BEING TRANSFERRED INTO STORAGE TANKS.
[RULE 461]
4. PHASE II RECOVERY SYSTEMS SHALL BE IN FULL OPERATION WHENEVER FUEL IS BEING TRANSFERRED INTO MOTOR VEHICLES AS DEFINED IN RULE 461.
[RULE 461]
5. ALL PHASE I AND PHASE II VAPOR RECOVERY EQUIPMENT AT THIS FACILITY SHALL BE INSTALLED, OPERATED AND MAINTAINED TO MEET ALL CALIFORNIA AIR RESOURCES BOARD CERTIFICATION REQUIREMENTS.
[RULE 461]

This Permit to Operate No. R-D37812 supersedes Permit to Operate No. D37812 issued on 4/25/91.

Periodic Monitoring:

6. THE OPERATOR SHALL HAVE A PERSON THAT HAS BEEN TRAINED IN ACCORDANCE WITH RULE 461(d)(5) CONDUCT AN ANNUAL INSPECTION IN ACCORDANCE WITH 461(d)(1)(B) OF THE GASOLINE TRANSFER AND DISPENSING EQUIPMENT. THE INSPECTION SHALL BE IN ACCORDANCE WITH RULE 461, ATTACHMENT C. THE OPERATOR SHALL KEEP RECORDS OF



**FACILITY PERMIT TO OPERATE
LA COUNTY SANITATION DISTRICT (CALABASAS)**

THE INSPECTION AND THE REPAIRS IN ACCORDANCE TO RULE 461 AND SECTION K OF THIS PERMIT.
[RULE 3004 (a)(4)]

Emissions and Requirements:

7. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
VOC: RULE 461



**FACILITY PERMIT TO OPERATE
LA COUNTY SANITATION DISTRICT (CALABASAS)**

PERMIT TO OPERATE

**Permit No. R-F4701
A/N 322631**

Equipment Description:

PORTABLE TANK NO. 1, BAKER OR EQUIVALENT, CONDENSATE/LEACHATE STORAGE, 20,000 GALLON CAPACITY, 12'-4" H. BY 37' L. BY 8' W., MAXIMUM.

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) THIS EQUIPMENT SHALL BE VENTED TO THE LANDFILL GAS COLLECTION OR FLARING SYSTEM.
[RULE 402, 1303(a)(1)-BACT]
- 5) ALL CONDENSATE COLLECTED AND/OR TREATED SHALL BE DISPOSED OF PROPERLY.
[RULE 402]

THIS PERMIT TO CONSTRUCT/OPERATE R-F4701 SUPERSEDES PERMIT TO CONSTRUCT/OPERATE F4701 ISSUED 1/08/1997.



**FACILITY PERMIT TO OPERATE
LA COUNTY SANITATION DISTRICT (CALABASAS)**

PERMIT TO OPERATE

**Permit No. R-F4700
A/N 322632**

Equipment Description:

PORTABLE TANK NO. 2, BAKER OR EQUIVALENT, CONDENSATE/LEACHATE STORAGE, 20,000 GALLON CAPACITY, 12'-4" H. BY 37' L. BY 8' W., MAXIMUM

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) THIS EQUIPMENT SHALL BE VENTED TO THE LANDFILL GAS COLLECTION OR FLARING SYSTEM.
[RULE 402, 1303(a)(1)-BACT]
- 5) ALL CONDENSATE COLLECTED AND/OR TREATED SHALL BE DISPOSED OF PROPERLY.
[RULE 402]

THIS PERMIT TO CONSTRUCT/OPERATE R-F4700 SUPERSEDES PERMIT TO CONSTRUCT/OPERATE F4700 ISSUED 1/08/1997.



**FACILITY PERMIT TO OPERATE
LA COUNTY SANITATION DISTRICT (CALABASAS)**

PERMIT TO OPERATE

**Permit No. F10379
A/N 331544**

Equipment Description:

AIR STRIPPER SYSTEM NO. 2, AT EQUIPMENT YARD, FOR TREATMENT OF LANDFILL LIQUIDS - CANYON WATER, LCRS, AND UNDERDRAIN WATER CONSISTING OF:

1. CANYON WATER STORAGE TANK, 10,000 GALLON CAPACITY.
2. CANYON WATER STORAGE TANK, 6500 GALLON CAPACITY.
3. AIR STRIPPER, PACKED COLUMN TYPE, 1'-6" DIA. BY 20'-0" H., 150 CFM, 15 GPM.
4. EFFLUENT STORAGE TANK, 5000 GALLONS.

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 NOT BE OPERATED UNLESS THE EXHAUST AIR FROM THE AIR STRIPPER AND THE CANYON WATER STORAGE TANK(S) ARE VENTED TO THE FLARING STATION WHERE AT LEAST ONE OF THE FLARES IS IN FULL USE AND HAS A VALID PERMIT FROM THE AQMD.
[RULE 402, 1303(a)(1)-BACT, 1401]
- 4) THE TOTAL VOLUME OF WATER FED TO THE AIR STRIPPER SHALL NOT EXCEED 57,600 GALLONS PER DAY.
[RULE 1303(b)(2)-OFFSET]
- 5) A FLOW METER SHALL BE MAINTAINED ON THE TREATED WATER LINE LEAVING THE AIR STRIPPER. TOTAL WATER THROUGHPUT IN GALLONS SHALL BE REPORTED DAILY AND MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 1303(b) (2)-OFFSET]



**FACILITY PERMIT TO OPERATE
LA COUNTY SANITATION DISTRICT (CALABASAS)**

PERMIT TO OPERATE

**Permit No. F15737
A/N 337534**

Equipment Description:

LANDFILL GAS CONDENSATE/LCRS STORAGE AND COLLECTION SYSTEM CONSISTING OF:

1. ONE LCRS COLLECTION TANK, 1000 GALLON CAPACITY, WITH TWO TRANSFER PUMPS.
2. ONE LCRS COLLECTION TANK, 1100 GALLON CAPACITY, WITH TWO TRANSFER PUMPS.
3. ONE LCRS COLLECTION TANK, 6500 GALLON CAPACITY, WITH TWO TRANSFER PUMPS.
4. ONE CONDENSATE COLLECTION TANK, 500 GALLON CAPACITY, WITH TWO TRANSFER PUMPS.
5. TWO (2) CONDENSATE COLLECTION TANKS, EACH 4000 GALLON CAPACITY, EACH WITH TWO TRANSFER PUMPS.
6. SIX (6) CONDENSATE STORAGE TANKS, EACH 6500 GALLON CAPACITY.
7. BASKET STRAINER

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) COLLECTION AND STORAGE TANKS SHALL BE VENTED TO THE LANDFILL GAS SYSTEM.
[RULE 402, 1303(a)(1)-BACT]
- 5) ALL CONDENSATE AND LCRS COLLECTED AND/OR TREATED SHALL BE DISPOSED OF PROPERLY.
[RULE 402]



**FACILITY PERMIT TO OPERATE
LA COUNTY SANITATION DISTRICT (CALABASAS)**

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



**FACILITY PERMIT TO OPERATE
LA COUNTY SANITATION DISTRICT (CALABASAS)**

PERMIT TO OPERATE

**Permit No. F38574
A/N 340995**

Equipment Description:

PORTABLE TANK NO. 3, BAKER OR EQUIVALENT, CONDENSATE/LEACHATE STORAGE, UP TO 20,000 GALLON CAPACITY

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) THIS EQUIPMENT SHALL BE VENTED TO THE LANDFILL GAS COLLECTION OR FLARING SYSTEM.
[RULE 402, 1303(a)(1)-BACT]
- 5) ALL CONDENSATE COLLECTED AND/OR TREATED SHALL BE DISPOSED OF PROPERLY.
[RULE 402]



**FACILITY PERMIT TO OPERATE
LA COUNTY SANITATION DISTRICT (CALABASAS)**

PERMIT TO OPERATE

**Permit No. F38575
A/N 340997**

Equipment Description:

PORTABLE TANK NO. 4, BAKER OR EQUIVALENT, CONDENSATE/LEACHATE STORAGE, UP TO 20,000 GALLON CAPACITY

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) THIS EQUIPMENT SHALL BE VENTED TO THE LANDFILL GAS COLLECTION OR FLARING SYSTEM.
[RULE 402, 1303(a)(1)-BACT]
- 5) ALL CONDENSATE COLLECTED AND/OR TREATED SHALL BE DISPOSED OF PROPERLY.
[RULE 402]



**FACILITY PERMIT TO OPERATE
LA COUNTY SANITATION DISTRICT (CALABASAS)**

PERMIT TO OPERATE

**Permit No. F38576
A/N 340998**

Equipment Description:

PORTABLE TANK NO. 5, BAKER OR EQUIVALENT, CONDENSATE/LEACHATE STORAGE, UP TO 20,000 GALLON CAPACITY

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) THIS EQUIPMENT SHALL BE VENTED TO THE LANDFILL GAS COLLECTION OR FLARING SYSTEM.
[RULE 402, 1303(a)(1)-BACT]
- 5) ALL CONDENSATE COLLECTED AND/OR TREATED SHALL BE DISPOSED OF PROPERLY.
[RULE 402]



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LA COUNTY SANITATION DISTRICT (CALABASAS)**

PERMIT TO OPERATE

**Permit No. F38577
A/N 340999**

Equipment Description:

PORTABLE TANK NO. 6, BAKER OR EQUIVALENT, CONDENSATE/LEACHATE STORAGE, UP TO 20,000 GALLON CAPACITY

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) THIS EQUIPMENT SHALL BE VENTED TO THE LANDFILL GAS COLLECTION OR FLARING SYSTEM.
[RULE 402, 1303(a)(1)-BACT]
- 5) ALL CONDENSATE COLLECTED AND/OR TREATED SHALL BE DISPOSED OF PROPERLY.
[RULE 402]



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LA COUNTY SANITATION DISTRICT (CALABASAS)**

PERMIT TO OPERATE

**Permit No. F38578
A/N 341000**

Equipment Description:

PORTABLE TANK NO. 7, BAKER OR EQUIVALENT, CONDENSATE/LEACHATE STORAGE, UP TO 20,000 GALLON CAPACITY

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) THIS EQUIPMENT SHALL BE VENTED TO THE LANDFILL GAS COLLECTION OR FLARING SYSTEM.
[RULE 402, 1303(a)(1)-BACT]
- 5) ALL CONDENSATE COLLECTED AND/OR TREATED SHALL BE DISPOSED OF PROPERLY.
[RULE 402]



**FACILITY PERMIT TO OPERATE
LA COUNTY SANITATION DISTRICT (CALABASAS)**

PERMIT TO OPERATE

**Permit No. F38579
A/N 341004**

Equipment Description:

PORTABLE TANK NO. 8, BAKER OR EQUIVALENT, CONDENSATE/LEACHATE STORAGE, UP TO 20,000 GALLON CAPACITY

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) THIS EQUIPMENT SHALL BE VENTED TO THE LANDFILL GAS COLLECTION OR FLARING SYSTEM.
[RULE 402, 1303(a)(1)-BACT]
- 5) ALL CONDENSATE COLLECTED AND/OR TREATED SHALL BE DISPOSED OF PROPERLY.
[RULE 402]



**FACILITY PERMIT TO OPERATE
LA COUNTY SANITATION DISTRICT (CALABASAS)**

PERMIT TO OPERATE

**Permit No. F38580
A/N 341006**

Equipment Description:

PORTABLE TANK NO. 9, BAKER OR EQUIVALENT, CONDENSATE/LEACHATE STORAGE, UP TO 20,000 GALLON CAPACITY

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) THIS EQUIPMENT SHALL BE VENTED TO THE LANDFILL GAS COLLECTION OR FLARING SYSTEM.
[RULE 402, 1303(a)(1)-BACT]
- 5) ALL CONDENSATE COLLECTED AND/OR TREATED SHALL BE DISPOSED OF PROPERLY.
[RULE 402]



**FACILITY PERMIT TO OPERATE
LA COUNTY SANITATION DISTRICT (CALABASAS)**

PERMIT TO OPERATE

**Permit No. F38581
A/N 341009**

Equipment Description:

PORTABLE TANK NO. 10, BAKER OR EQUIVALENT, CONDENSATE/LEACHATE STORAGE, UP TO 20,000 GALLON CAPACITY

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) THIS EQUIPMENT SHALL BE VENTED TO THE LANDFILL GAS COLLECTION OR FLARING SYSTEM.
[RULE 402, 1303(a)(1)-BACT]
- 5) ALL CONDENSATE COLLECTED AND/OR TREATED SHALL BE DISPOSED OF PROPERLY.
[RULE 402]



**FACILITY PERMIT TO OPERATE
LA COUNTY SANITATION DISTRICT (CALABASAS)**

PERMIT TO OPERATE

**Permit No. F51198
A/N 341029**

Equipment Description:

LANDFILL GAS COLLECTION SYSTEM CONSISTING OF:

1. TWO HUNDRED THIRTY-THREE (233) VERTICAL LANDFILL GAS COLLECTION WELLS, PILE DRIVEN.
2. TWO HUNDRED SEVENTY-FOUR (274) VERTICAL LANDFILL GAS COLLECTION WELLS, AUGER DRILLED.
3. FORTY-FOUR (44) HORIZONTAL GAS COLLECTION WELLS, VARIOUS DIAMETERS.
4. GAS TRANSMISSION HEADER AND LATERAL PIPING SYSTEM, SERVING THE VERTICAL AND HORIZONTAL WELLS TO DIRECT THE LANDFILL GAS TO THE FLARE SYSTEM.
5. ONE 8" DIAMETER HEADER, PVC PIPE CONSTRUCTION, APPROXIMATELY 350 FEET IN LENGTH, INTERCONNECTING THE EXISTING LANDFILL GAS COLLECTION SYSTEM WITH THE LEACHATE COLLECTION AND REMOVAL SYSTEM (LCRS).
6. ONE THOUSAND (1000) VERTICAL LANDFILL GAS COLLECTION WELLS, PILE DRIVEN OR AUGER DRIVEN, AT LOCATIONS TO BE DETERMINED.
2. HORIZONTAL GAS COLLECTION TRENCHES, PERIPHERAL OR PARALLEL, UP TO 200,000 LINEAR FEET, AT LOCATIONS 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 EQUIPMENT SHALL BE OPERATED AND MAINTAINED BY PERSONNEL PROPERLY TRAINED IN ITS OPERATION.
[RULE 204]



**FACILITY PERMIT TO OPERATE
LA COUNTY SANITATION DISTRICT (CALABASAS)**

4. DURING WELL DRILLING, AN APPROVED EMISSION CONTROL BOX SHALL BE PLACED OVER THE WELL 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 SCAQMD, OR VENTED TO A CARBON ADSORPTION UNIT WHICH HAS SUFFICIENT CAPACITY TO REMOVE NMOC'S AND ODORS WHEN THERE IS NO OPERATIONAL GAS COLLECTION/FLARING SYSTEM AVAILABLE NEARBY.
[RULE 402, 1150.1]
5. WELL DRILLING, DRIVING AND/OR TRENCHING SHALL NOT BE CONDUCTED BETWEEN THE HOURS OF 6 P.M. AND 7 A.M. OR ON SATURDAYS, SUNDAYS OR LEGAL HOLIDAYS, UNLESS OTHERWISE APPROVED BY THE SCAQMD.
[RULE 402, 1150]
6. 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. 6 OR WHEN THE SCAQMD REQUIRES COMPANIES IN AREA NO. 6 TO IMPLEMENT THEIR FIRST, SECOND OR THIRD STAGE EPISODE PLANS UNLESS OTHERWISE APPROVED BY THE SCAQMD. EPISODE FORECASTS FOR THE FOLLOWING DAY CAN BE OBTAINED BY CALLING (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 M.P.H. AVERAGE (OVER 15 MINUTES) OR THE WIND SPEED INSTANTANEOUSLY EXCEEDS 25 M.P.H.
[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 402, 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 TRENCH PER EXCAVATION SITE 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 NIGHT COVER IF IT IS RAINING OR RAIN IS PREDICTED BY THE NATIONAL WEATHER SERVICE PRIOR TO THE NEXT SCHEDULED WORKING DAY.
[RULE 402, 1150]



FACILITY PERMIT TO OPERATE LA COUNTY SANITATION DISTRICT (CALABASAS)

11. FOR PURPOSES OF THIS PERMIT, THE FOLLOWING ARE CONSIDERED CONSTRUCTION SPOILS: LANDFILL TRASH; MATERIAL THAT IS MIXED WITH LANDFILL TRASH; MATERIAL THAT HAS BEEN IN CONTACT WITH LANDFILL TRASH; OR ODOROUS MATERIAL THAT IS REMOVED FROM WELL HOLES OR TRENCHES.
[RULE 1150]
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. ALL CONSTRUCTION SPOILS SHALL BE TRANSPORTED TO THE ACTIVE WORKING FACE OF THE LANDFILL WITHIN ONE HOUR OF GENERATION OR AS DEEMED NECESSARY BY SCAQMD PERSONNEL.
[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 OFF 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 SCAQMD PERSONNEL OR ON-SITE SAFETY COORDINATOR IN THE ABSENCE OF SCAQMD 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 ARE MITIGATED AND THE APPROVAL TO RESUME WORK IS RECEIVED FROM THE SCAQMD.
[RULE 402, 1150]
18. 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]
19. EACH HORIZONTAL GAS COLLECTION WELL SHALL BE CONNECTED TO AN OPERATING LANDFILL GAS HEADER OR THE ENDS OF THE WELL SHALL BE SEALED WITH BLIND FLANGES OR OTHER TYPES OF SEALS APPROVED BY THE SCAQMD AS SOON AS THE WELL IS INSTALLED.
[RULE 1150, 1150.1]



**FACILITY PERMIT TO OPERATE
LA COUNTY SANITATION DISTRICT (CALABASAS)**

20. EACH VERTICAL AND HORIZONTAL WELL HEAD SHALL BE EQUIPPED WITH A SHUT-OFF VALVE AND A SAMPLING PORT.
[RULE 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 ANY EMISSIONS OF LANDFILL GAS FROM AROUND THE WELL CASING.
[RULE 402, 1150, 1150.1]
23. ALL OPENINGS OF THIS SYSTEM SHALL BE PROPERLY COVERED AND SEALED TO PREVENT ANY VAPORS FROM ENTERING INTO THE ATMOSPHERE.
[RULE 402, 1150, 1150.1]
24. ALL GASES COLLECTED BY THIS SYSTEM SHALL BE VENTED TO A COMBUSTION OR PROCESSING FACILITY WHICH IS IN FULL USE, CAN ADEQUATELY PROCESS THE VOLUME OF GAS COLLECTED, AND HAS BEEN ISSUED A VALID PERMIT TO CONSTRUCT OR OPERATE BY THE SCAQMD.
[RULE 1150.1, 1303(a)(1)-BACT]
25. THE OPERATION OF THIS EQUIPMENT SHALL NOT RESULT IN THE RELEASE OF ANY RAW LANDFILL GAS INTO THE ATMOSPHERE.
[RULE 402, 1150.1]
26. THE SCAQMD SHALL BE NOTIFIED IN WRITING AT LEAST ONE (1) WEEK IN ADVANCE WHEN AN ADDITIONAL WELL OR SET OF WELLS AND THEIR ASSOCIATED PIPING WILL BE INSTALLED. THE PROPOSED WELL LOCATIONS AND CONNECTING PIPING SHALL BE IDENTIFIED ON A DRAWING WHICH SHOWS 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]
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 ADVANCED NOTIFICATION SHALL BE SUFFICIENT FOR PROJECT START-UP. SUCH COMMUNICATIONS SHALL INCLUDE THE LOCATIONS OF THE PROPOSED WELLS, WELL DIMENSIONS AND A BRIEF DESCRIPTION OF THE PROJECT. WRITTEN NOTIFICATION 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 THEIR ASSOCIATED PIPING IS COMPLETE, THE PERMITTEE SHALL SUBMIT AS-BUILT DRAWINGS IN DUPLICATE TO THE SCAQMD, ATTN: TOXICS AND WASTE MANAGEMENT.
[RULE 1150.1]



**FACILITY PERMIT TO OPERATE
LA COUNTY SANITATION DISTRICT (CALABASAS)**

29. 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 1150.1]

Emissions and Requirements:

30. 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 AAAAA



**FACILITY PERMIT TO OPERATE
LA COUNTY SANITATION DISTRICT (CALABASAS)**

PERMIT TO OPERATE

**Permit No. F77394
A/N 440826**

Equipment Description:

LANDFILL GAS FLARING SYSTEM CONSISTING OF:

1. SIX FLARES (NOS. 1-6), CUSTOM MADE HEX BURNER DESIGN, EACH 8 FT. DIAMETER BY 16 FT. HIGH, 1000 SCFM CAPACITY, WITH PROPANE PILOT IGNITER, UV FLAME SCANNER, AUTOMATIC AIR LOUVERS, AUTOMATIC SHUTDOWN VALVE, AND TEMPERATURE CONTROLLER.
2. THREE FLARES (NOS. 7-9), CUSTOM MADE HEX BURNER DESIGN, EACH 8 FT. 4 INCH OUTER DIAMETER BY 32 FT. HIGH, 1500 SCFM CAPACITY, WITH PROPANE PILOT IGNITER, UV FLAME SCANNER, AUTOMATIC AIR LOUVERS, AUTOMATIC SHUTDOWN VALVE, TEMPERATURE CONTROLLER AND LIQUID INJECTION.
3. NINE FLAME ARRESTORS
4. PARTICULATE FILTER, 24 INCH, CAPABLE OF HANDLING 8700 SCFM GAS FLOW.
5. TWO BLOWERS (FOR FLARES NO. 1-6), EACH 5700 CFM CAPACITY, 60 HP, ONE AS BACKUP.
6. THREE BLOWERS (FOR FLARES NO. 7-9), EACH 1500 CFM CAPACITY, 100 HP.
7. LIQUID INJECTION SYSTEM (FOR FLARES 7-9), CONDENSATE TYPE, CONSISTING OF TRANSFER AND INJECTION PUMPS, BASKET STRAINER, AND ASSOCIATED PIPING AND INJECTION NOZZLES.

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]



**FACILITY PERMIT TO OPERATE
LA COUNTY SANITATION DISTRICT (CALABASAS)**

- 4) FOUR (4) SAMPLING PORTS SHALL BE PROVIDED IN EACH FLARE STACK AT LEAST THREE (3) FEET UPSTREAM OF THE FLARE OUTLET. EACH SAMPLING PORT SHALL CONSIST OF A FOUR-INCH NIPPLE. 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 AT THE INLET GAS LINE TO THE FLARE TO ALLOW THE COLLECTION OF A LANDFILL GAS SAMPLE.
[RULE 217, 431.1, 1150.1]
- 6) 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. 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 THREE (3) FEET FROM THE TOP OF THE STACK.
[RULE 1150.1, 1303(a)(1)-BACT]
- 7) WHENEVER THE FLARE(S) IS(ARE) IN OPERATION, A TEMPERATURE OF NOT LESS THAN 1400 DEGREES F, 15 MINUTE AVERAGE, AS MEASURED BY THE TEMPERATURE INDICATOR AND RECORDER, SHALL BE MAINTAINED EXCEPT DURING PERIODS OF STARTUP AND SHUTDOWN. STARTUP IS DEFINED AS THE PERIOD FROM FLARE IGNITION TO THE TIME WHEN 1400 DEGREES F 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.
[RULE 1303(a)(1)-BACT]
- 8) THE FLARE STATION SHALL BE EQUIPPED WITH AN AUTOMATIC SHUT-DOWN SYSTEM WITH A FAILURE ALARM, WHICH HAS BEEN APPROVED BY THE EXECUTIVE OFFICER, TO AUTOMATICALLY ISOLATE EACH FLARE FROM THE LANDFILL GAS SUPPLY LINE, SHUT OFF THE BLOWERS (WHEN FAILURE OF THE ENTIRE FLARING STATION OCCURS) AND IMMEDIATELY NOTIFY A RESPONSIBLE PARTY REGARDING THE SHUT-DOWN.
[RULE 1303(a)(1)-BACT]
- 9) THE SAFETY SYSTEM SHALL BE TESTED PERIODICALLY FOR PROPER OPERATION AND THE RESULTS RECORDED.
[RULE 1303(a)(1)-BACT]
- 10) A FLOW INDICATING AND RECORDING DEVICE(S) SHALL BE MAINTAINED IN THE LANDFILL GAS SUPPLY LINE TO THE FLARE STATION AND IN EACH LANDFILL GAS SUPPLY LINE TO FLARES 7 THRU 9 TO MEASURE THE QUANTITY OF LANDFILL GAS (IN SCFM) BEING BURNED.
[RULE 1150.1, 1303(b)(2)-OFFSET]
- 11) A FLOW INDICATING AND RECORDING DEVICE SHALL BE INSTALLED TO MEASURE AND RECORD THE QUANTITY OF LANDFILL GAS (IN SCFM) BEING BURNED IN THE FLARE STATION.
[RULE 1150.1, 1303(b)(2)-OFFSET]



**FACILITY PERMIT TO OPERATE
LA COUNTY SANITATION DISTRICT (CALABASAS)**

- 12) THE VOLUME OF LANDFILL GAS BURNED IN EACH FLARE (NOS. 1-6) SHALL NOT EXCEED 1000 STANDARD CUBIC FEET PER MINUTE.
[RULE 1303(b)(2)-OFFSET]
- 13) THE VOLUME OF LANDFILL GAS BURNED IN EACH FLARE (NOS. 7-9) SHALL NOT EXCEED 1500 STANDARD CUBIC FEET PER MINUTE.
[RULE 1303(b)(2)-OFFSET]
- 14) THE TOTAL VOLUME OF LANDFILL GAS BURNED IN THE FLARE STATION SHALL NOT EXCEED 8700 STANDARD CUBIC FEET PER MINUTE.
[RULE 1303(b)(2)-OFFSET]
- 15) ALL LANDFILL GAS COLLECTED SHALL BE DIRECTED TO THE FLARE FOR COMBUSTION OR OTHER APPROVED DISPOSAL METHOD.
[RULE 1150.1, 1303(a)(1)-BACT, 1401, 40 CFR 63 SUBPART AAAA]
- 16) FLOW INDICATING AND RECORDING DEVICES SHALL BE INSTALLED AND MAINTAINED TO MEASURE AND RECORD THE LIQUID CONDENSATE INJECTION RATE INTO EACH OF FLARES 7, 8, AND 9.
[RULE 1303(b)(2)-OFFSET]
- 17) THE VOLUME FLOW OF LIQUID CONDENSATE INJECTED INTO EACH OF FLARES 7, 8, AND 9 SHALL NOT EXCEED 2.5 GPM PER FLARE.
[RULE 1303(b)(2)-OFFSET]
- 18) THE TOTAL VOLUME OF LIQUID INJECTED EACH OF FLARES 7, 8, AND 9 SHALL NOT EXCEED 1500 GALLONS PER DAY (GPD) PER FLARE.
[RULE 1303(b)(2)-OFFSET]
- 19) ALL RECORDING DEVICES SHALL BE SYNCHRONIZED WITH RESPECT TO THE TIME OF DAY.
[RULE 1303(b)(2)-OFFSET]
- 20) THE FLARE SHALL BE EQUIPPED WITH A SUFFICIENT NUMBER OF VIEW PORTS TO ALLOW VISUAL INSPECTION OF THE BURNER WITHIN THE FLARE AT ALL TIMES. SAFE AND ADEQUATE ACCESS SHALL BE PROVIDED FOR ALL VIEW PORTS UPON REQUEST BY AQMD PERSONNEL.
[RULE 217, 1303(a)(1)-BACT]
- 21) THE 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]
- 22) THE MAXIMUM FLARE SKIN TEMPERATURE AT ANY LOCATION SHALL NOT EXCEED 250 DEGREES F.
[RULE 217]



**FACILITY PERMIT TO OPERATE
LA COUNTY SANITATION DISTRICT (CALABASAS)**

23) 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 IN ACCORDANCE WITH RULE 430 REQUIREMENTS, AND IMMEDIATE REMEDIAL MEASURES SHALL BE UNDERTAKEN TO CORRECT THE PROBLEM AND PREVENT FURTHER EMISSIONS INTO THE ATMOSPHERE.
[RULE 402, 430, 1150.1]

24) WITHIN FORTY-FIVE (45) DAYS OF ANNIVERSARY OF INITIAL SOURCE TEST, UNLESS OTHERWISE APPROVED BY THE EXECUTIVE OFFICER, THE APPLICANT SHALL CONDUCT ANNUAL PERFORMANCE TESTS ON A REPRESENTATIVE NUMBER OF FLARES, IN ACCORDANCE WITH SCAQMD APPROVED TEST PROCEDURES, AND FURNISH THE SCAQMD WRITTEN RESULTS OF SUCH PERFORMANCE TESTS WITHIN SIXTY (60) DAYS AFTER TESTING. WRITTEN NOTICE OF THE PERFORMANCE TESTS SHALL BE PROVIDED TO THE SCAQMD TEN (10) DAYS PRIOR TO TESTING SO THAT AN OBSERVER MAY BE PRESENT. ALL SOURCE TESTING AND ANALYTICAL METHODS SHALL BE SUBMITTED TO THE SCAQMD FOR APPROVAL AT LEAST THIRTY (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(S) AND THE FLARE(S) EXHAUST FOR:

- A. METHANE
- B. TOTAL NON-METHANE HYDROCARBONS
- C. OXIDES OF NITROGEN (EXHAUST ONLY)
- D. CARBON MONOXIDE (EXHAUST ONLY)
- E. TOTAL PARTICULATES (EXHAUST ONLY)
- F. HYDROGEN SULFIDE (INLET ONLY)
- G. C 1 THROUGH C3 SULFUR COMPOUNDS (SPECIATED) (INLET ONLY)
- H. CARBON DIOXIDE
- I. TOXIC AIR CONTAMINANTS
- J. OXYGEN
- K. NITROGEN
- L. MOISTURE CONTENT
- M. TEMPERATURE
- N. FLOW RATE

- OR -

SOURCE TESTS SHALL BE CONDUCTED ON A REPRESENTATIVE NUMBER OF FLARES IN ACCORDANCE WITH AN APPROVED RULE 1150.1 COMPLIANCE PLAN.

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

25) EMISSIONS RESULTING FROM EACH FLARE (NOS. 1-6) SHALL NOT EXCEED THE FOLLOWING:

POLLUTANT	LBS./HR
NOX, AS N02	0.86
SOX, AS SO2	1.5
CO	0.34
PM	1.0
NMHC, AS METHANE	0.74

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



**FACILITY PERMIT TO OPERATE
LA COUNTY SANITATION DISTRICT (CALABASAS)**

- 26) EMISSIONS RESULTING FROM EACH FLARE (NOS. 7-9), WITHOUT LIQUID INJECTION, SHALL NOT EXCEED THE FOLLOWING:

POLLUTANT	LBS./HR
NOX, AS N02	1.05
SOX ,AS SO2	2.3
CO	0.51
PMIO	0.95
NMHC, AS METHANE	0.37

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

- 27) EMISSIONS RESULTING FROM EACH FLARE (NOS. 7-9), WITH LIQUID INJECTION, SHALL NOT EXCEED THE FOLLOWING:

POLLUTANT	LBS./HR
NOX, AS N02	1.55
SOX, AS S02	2.3
CO	0.51
PMIO	4.44
NMHC, AS METHANE	0.37

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

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

Emissions and Requirements:

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

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



**FACILITY PERMIT TO OPERATE
LA COUNTY SANITATION DISTRICT (CALABASAS)**

PERMIT TO CONSTRUCT/OPERATE

**Permit No. G8396
A/N 501731**

Equipment Description:

AIR STRIPPER SYSTEM NO. 1, AT SCALE AREA, FOR TREATMENT OF LANDFILL LIQUIDS – BARRIER (#1, 2 & 5) CANYON WATER, LCRS, UNDERDRAIN WATER, AND LANDFILL GAS CONDENSATE LIQUID, CONSISTING OF:

1. INFLUENT WATER STORAGE TANK, 10,000 GALLONS CAPACITY AND PIPED TO LANDFILL GAS CONDENSATE COLLECTION TANKS (F15737).
2. AIR STRIPPER (NO. 1), PACKED COLUMN TYPE, 3' DIA. BY 35'-0" H., 90 GPM CAPACITY, WITH 700 CFM AIR BLOWER, WITH DIRECT FEED FROM COLLECTION TANKS (F15737) FOR BATCH TREATMENT, AND VENTING TO LANDFILL GAS COLLECTION SYSTEM (F51198).
3. AIR STRIPPER (BACKUP/TEMPORARY), PACKED BED COLUMN TYPE, 30 GPM, WITH 400 CFM AIR BLOWER.
4. TREATED EFFLUENT STORAGE TANK, 5000 GALLONS.

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 PERMIT SHALL EXPIRE IF CONSTRUCTION OF THE EQUIPMENT IS NOT COMPLETED WITHIN ONE YEAR FROM MAY 11, 2010 UNLESS AN EXTENSION IS GRANTED BY THE EXECUTIVE OFFICER.
[RULE 205]



**FACILITY PERMIT TO OPERATE
LA COUNTY SANITATION DISTRICT (CALABASAS)**

4. THIS EQUIPMENT SHALL ONLY BE USED TO TREAT LANDFILL LIQUIDS SHOWN UNDER THE EQUIPMENT DESCRIPTION.
[RULE 204]
5. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS THE EXHAUST AIR FROM THE AIR STRIPPER (S) AND THE VENTING OF THE INFLUENT WATER STORAGE TANK ARE VENTED TO THE LFG COLLECTION SYSTEM, AND TO THE AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL USE AND HAS A VALID PERMIT FROM THE AQMD.
[RULE 402, 1303(a)(1)-BACT, 1401]
6. FLOW METER SHALL BE INSTALLED AND MAINTAINED FOR THE AIR STRIPPER TO MEASURE AND RECORD THE RESPECTIVE LANDFILL LIQUIDS FEED RATE (GPM) AND AIR FLOW RATE (CFM). WHEN IN OPERATION, FLOW RATE READINGS (GPM AND CFM) SHALL BE RECORDED ONCE A DAY, EVERY BUSINESS DAY, MONDAY THROUGH FRIDAY.
[RULE 204]
7. THIS EQUIPMENT SHALL TREAT NO MORE THAN 129,600 GALLONS OF LANDFILL LIQUIDS, INCLUDING DIRECT BATCH OR BLENDED WATER TREATMENT OF THE LFG CONDENSATE, IN ANY ONE DAY.
[RULE 1303 (b) (2)-OFFSET, 1304, 1401]
8. SEMI-ANNUALLY GRAB SAMPLES OF AIR STRIPPER LIQUIDS INFLUENT WATER SHALL BE COLLECTED AND ANALYZED FOR ORGANIC COMPOUNDS PRESENT. RESULTS FOR INFLUENT SAMPLES' ANALYSIS SHALL BE KEPT ON FILE.
[RULE 3004 (a) (2)]
9. THE BACKUP/TEMPORARY AIR STRIPPER SHALL ONLY OPERATE IF ANY PRIMARY STRIPPER (NO. 1 OR 2) IS OUT OF SERVICE.
[RULE 204]
10. ALL RECORDS SHALL BE KEPT FOR A PERIOD OF AT LEAST FIVE YEARS AND SHALL BE MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 3004 (a) (2)]



**FACILITY PERMIT TO OPERATE
LA COUNTY SANITATION DISTRICT (CALABASAS)**

PERMIT TO OPERATE

**Permit No. G24676
A/N 458588**

Equipment Description:

LANDFILL GAS CONTROL AND GAS-TO-ENERGY SYSTEM, NO. 1, CONSISTING OF:

1. LANDFILL GAS (LFG) TREATMENT SYSTEM, SKID MOUNTED, 2500 SCFM @ 33% METHANE OR 51.6 MMBTU/HR CAPACITY, CONSISTING OF:
 - A. MOISTURE SEPARATOR.
 - B. COMPRESSOR, APPROXIMATE 700 HP.
 - C. HEAT EXCHANGER(S) AND GAS CHILLER.
 - D. TWO SORBENT BEDS, IN SERIES, EACH CONTAINING SILICA GEL OR EQUIVALENT MEDIA.
 - E. COALESCING FILTER FOR PARTICULATE MATTER REMOVAL, 0.3 MICRONS.
2. GAS TURBINE, SOLAR, MERCURY 50, LANDFILL GAS (LFG) AND NATURAL GAS AUGMENTATION, MAXIMUM 51.6 MILLION BTU PER HOUR INPUT RATING, SIMPLE CYCLE, WITH ELECTRIC START MOTOR, TEN-STAGE AXIAL FLOW COMPRESSOR, ULTRA LEAN PREMIX (ULP) ANNULAR COMBUSTOR, A RECUPERATOR, AUTOMATIC PILOT AND FUEL CONTROL SYSTEM, PROGRAMMABLE CONTROLLER, AND DRIVING A 4.6 MEGAWATT (MW) ELECTRIC GENERATOR.
3. EXHAUST STACK, 4' DIA. X 25' HIGH.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE 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]



**FACILITY PERMIT TO OPERATE
LA COUNTY SANITATION DISTRICT (CALABASAS)**

4. THIS EQUIPMENT SHALL ONLY BE FIRED WITH LANDFILL GAS OR A BLEND OF LANDFILL GAS AND NATURAL GAS FUEL. FOR THIS FUEL BLEND, THE HEAT INPUT FROM NATURAL GAS SHALL NOT EXCEED 25% OF THE TOTAL HEAT INPUT TO THE TURBINE ON AN ANNUAL BASIS. NATURAL GAS SHALL ONLY BE USED FOR START-UP AND FOR ADEQUATE PERFORMANCE OF THE TURBINE AS A LANDFILL GAS CONTROL DEVICE IN CASE THE QUALITY OF THE LANDFILL GAS IS NOT SUFFICIENT IN MEETING THE MANUFACTURER'S MINIMUM SPECIFICATIONS.
[RULE 204, 1303 (b) (2) OFFSET]
5. FLOW INDICATING AND RECORDING DEVICES SHALL BE INSTALLED AND MAINTAINED IN THE LANDFILL GAS AND NATURAL GAS SUPPLY LINE TO THE GAS TURBINE TO MEASURE AND RECORD THE QUANTITY OF LANDFILL GAS AND NATURAL GAS (IN SCFM) SUPPLIED.
[RULE 1303(b) (1)-MODELING, 1303(b) (2)-OFFSET, 3004 (a) (4)]
6. WEEKLY READINGS OF THE BTU CONTENT OF LANDFILL GAS AT THE INLET TO THE GAS TURBINE SHALL BE TAKEN USING AN INSTRUMENT APPROVED BY THE SCAQMD. ALL RESULTS SHALL BE RECORDED.
[RULE 1303(b) (2) - OFFSET, 3004 (a) (4)]
7. THE TOTAL COMBINED VOLUME AND HEAT INPUT OF LANDFILL GAS BURNED IN THE GAS TURBINES AND FLARES SHALL NOT EXCEED 8700 SCFM AND 178.2 MMBTU PER HOUR RESPECTIVELY. RECORDS OF LFG FLOW RATE, BTU CONTENT, AND TOTAL HEAT INPUT SHALL BE KEPT AND MAINTAINED ON FILE.
[RULE 1303(b) (1)-MODELING, 1303(b) (2)-OFFSET, 1309.1, 3004(a) (4)]
8. THE TOTAL HEAT INPUT OF LANDFILL GAS AND NATURAL GAS FUEL BLEND BURNED IN THE GAS TURBINE SHALL NOT EXCEED 51.6 MM BTU PER HOUR. A LOG SHALL BE KEPT INDICATING THE TOTAL HEATING VALUE OF LANDFILL GAS AND NATURAL GAS FUEL BLEND BURNED IN THE GAS TURBINE BASED ON THE RECORDED FLOW RATE (SCFM) FOR EACH FUEL AND THE LATEST WEEKLY BTU CONTENT READING.
[RULE 1303(b) (1)-MODELING, 1303(b) (2)-OFFSET, 3004 (a) (4)]
9. A CONTINUOUS COMBUSTION CHAMBER TEMPERATURE MONITORING AND RECORDING SYSTEM SHALL BE MAINTAINED 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 SCAQMD OR EPA APPROVED METHOD.
[40 CFR 64]
10. FOR THE PURPOSE OF THIS CONDITION, A DEVIATION SHALL BE DEFINED AS WHEN THE COMBUSTION CHAMBER TEMPERATURE LESS THAN 1100 DEGREES FAHRENHEIT OR GREATER 1300 DEGREES FAHRENHEIT OCCURS AVERAGED OVER ONE HOUR DURING OPERATION EXCEPT DURING START UP AND SHUTDOWN EVENTS LASTING FOR A MAXIMUM OF ONE HOUR. MULTIPLE START UP AND SHUTDOWN EVENTS CAN OCCUR CONSECUTIVELY.
[40 CFR 64]



**FACILITY PERMIT TO OPERATE
LA COUNTY SANITATION DISTRICT (CALABASAS)**

11. THE COMBUSTION CHAMBER TEMPERATURE SHALL BE RECORDED AT LEAST EVERY 15 MINUTES, AND THE 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 OCCURRED OR SHALL INSTALL AN ALARM SYSTEM TO ALERT THE OPERATOR WHEN A DEVIATION OCCURS.
[40 CFR 64]
12. ALL DEVIATIONS SHALL BE REPORTED TO THE SCAQMD 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.
[40 CFR 64]
13. FOR EACH SEMI-ANNUAL REPORTING PERIOD SPECIFIED IN CONDITION NO. 23 IN SECTION K, WHENEVER A DEVIATION OCCURS FROM THE TEMPERATURE, 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.
[40 CFR 64]
14. A SEMI-ANNUAL MONITORING REPORT SHALL BE SUBMITTED TO SCAQMD, WHICH SHALL INCLUDE BUT MAY NOT BE LIMITED TO THE TOTAL OPERATING TIME OF THIS EQUIPMENT AND THE TOTAL ACCUMULATED DURATION OF ALL DEVIATIONS FOR EACH SEMI-ANNUAL REPORTING PERIOD.
[40 CFR 64]
15. THE OWNER OR OPERATOR SHALL SUBMIT AN APPLICATION WITH A QUALITY IMPROVEMENT PLAN (QIP) IN ACCORDANCE WITH 40 CFR PART 64.8 TO THE SCAQMD IF AN ACCUMULATION OF DEVIATIONS EXCEEDS 5% 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 SCAQMD WITHIN 90 CALENDAR DAYS AFTER THE DUE DATE OF THE SEMI-ANNUAL MONITORING REPORT.
[40 CFR 64]
16. THE OPERATOR SHALL KEEP ALL RECORDS FOR A PERIOD OF AT LEAST FIVE (5) YEARS IN A FORMAT ACCEPTABLE TO THE SCAQMD AND IN COMPLIANCE WITH 40 CFR PART 64.9 AND SHALL BE MADE AVAILABLE TO SCAQMD PERSONNEL UPON REQUEST.
[RULE 1150.1, 40CFR PART 64, RULE 3004(a) (4)]
17. ALL RECORDING DEVICES SHALL BE SYNCHRONIZED WITH RESPECT TO THE TIME OF THE DAY.
[RULE 204]
18. LANDFILL GAS NOT UTILIZED BY THIS EQUIPMENT SHALL BE DIRECTED TO COMBUSTION OR PROCESSING FACILITY WHICH IS IN FULL USE, CAN ADEQUATELY PROCESS THE VOLUME OF GAS COLLECTED AND HAS BEEN ISSUED A VALID PERMIT BY THE SCAQMD.
[RULE 1303(a) (1)-BACT]



**FACILITY PERMIT TO OPERATE
LA COUNTY SANITATION DISTRICT (CALABASAS)**

19. 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 LANDFILL GAS SHALL BE REPORTED TO THE SCAQMD WITHIN ONE HOUR AFTER OCCURRENCE, OR WITHIN ONE HOUR OF THE TIME THE OPERATING PERSONNEL KNEW OR REASONABLY SHOULD HAVE KNOWN OF THE OCCURRENCE, AND IMMEDIATE REMEDIAL MEASURES SHALL BE UNDERTAKEN TO CORRECT THE PROBLEM AND PREVENT FURTHER EMISSIONS INTO THE ATMOSPHERE.
[RULE 402, 430, 1150.1]
20. THIS EQUIPMENT SHALL BE OPERATED IN COMPLIANCE WITH SCAQMD RULE 431.1.
[RULE 431.1]
21. ADEQUATE NUMBER OF SAMPLING PORTS AND WELDED NIPPLES WITH CAPS, WITH ITS SAFE ACCESS SHALL BE INSTALLED AND MAINTAINED IN THE EXHAUST STACK IN ACCORDANCE WITH RULE 217 AND SCAQMD'S APPROVAL.
[RULE 217]
22. A CONTINUOUS EMISSION MONITORING SYSTEM (CEMS), APPROVED BY THE EXECUTIVE OFFICER, SHALL BE INSTALLED, OPERATED AND MAINTAINED TO MEASURE THE EXHAUST CONCENTRATION FOR NO_x AND O₂, ON A DRY BASIS. IN ADDITION, THE SYSTEM SHALL CONVERT THE ACTUAL NO_x CONCENTRATION TO A CORRECTED NO_x CONCENTRATION AT 15% O₂ AND CONTINUOUSLY RECORD THE STACK NO_x CONCENTRATION AT 15% O₂. THIS MONITORING SYSTEM SHALL COMPLY WITH THE REQUIREMENTS OF SCAQMD RULE 218. PRIOR TO INSTALLATION, THIS MONITORING SYSTEM SHALL BE APPROVED IN WRITING BY THE EXECUTIVE OFFICER.
[RULE 218, 1303(b) (1)-MODELING, 1303(b) (2)-OFFSET, 3004 (a) (4),]
23. THE OPERATOR SHALL ANNUALLY CONDUCT COMPLIANCE SOURCE TESTS IN ACCORDANCE WITH THE APPROVED TEST PROCEDURES. WRITTEN RESULTS OF SUCH COMPLIANCE TESTS SHALL BE SUBMITTED WITHIN 60 DAYS AFTER TESTING. NOTICE SHALL BE PROVIDED TO THE AQMD 10 DAYS PRIOR TO THE TESTING SO THAT AN OBSERVER MAY BE PRESENT. ALL SOURCE TESTING SHALL BE AS PER AQMD APPROVED SOURCE TESTS PROTOCOL.

THE TESTS SHALL INCLUDE, BUT MAY NOT BE LIMITED TO, A TEST OF THE INLET LANDFILL GAS AND FUEL GAS BLEND AND THE GAS TURBINE EXHAUST FOR:

- A. METHANE AND TOTAL NON-METHANE HYDROCARBONS
- B. CARBON MONOXIDE (EXHAUST ONLY)
- C. OXIDES OF NITROGEN (EXHAUST ONLY)
- D. CARBON DIOXIDE
- E. TOTAL PARTICULATES (EXHAUST ONLY)
- F. C1 THROUGH C3 SULFUR COMPOUNDS (SPECIATED, INLET ONLY)
- G. TOXIC AIR CONTAMINANTS INCLUDING, BUT NOT LIMITED TO, BENZENE, CHLOROBENZENE, 1, 2-DICHLOROETHANE, 1, 1-DICHLOROETHENE, DICHLOROMETHANE, TETRACHLOROETHYLENE, TETRACHLOROMETHANE, TOLUENE, 1, 1, 1-TRICHLOROETHANE, TRICHLOROETHYLENE, TRICHLOROMETHANE, VINYL CHLORIDE, AND XYLENE ISOMERS.
- H. OXYGEN AND NITROGEN



**FACILITY PERMIT TO OPERATE
LA COUNTY SANITATION DISTRICT (CALABASAS)**

- I. MOISTURE CONTENT
- J. TEMPERATURE
- K. FLOW RATE
- L. VOLATILE ORGANIC COMPOUNDS (VOCS) CONTROL EFFICIENCY, WT% (BASED ON INLET AND EXHAUST VOCS)
- M. KW GENERATED.

THE REPORT SHALL PRESENT THE EMISSIONS DATA IN UNITS OF POUNDS PER HOUR (LB/HR), POUNDS PER MILLION BTU (LB/MMBTU), AND PARTS PER MILLION (PPMV) ON A DRY BASIS AT 15% O2 (CO, NOx, AND TNMOC).

[RULE 1150.1, 1303(a) (1)-BACT, 1303 (b) (1)-MODELING, 1303(b) (2)-OFFSET, 40 CFR 63 SUBPART AAAA, 3004 (a) (4)]

24. EMISSIONS FROM THE GAS TURBINE SHALL NOT EXCEED THE FOLLOWING:

CONTAMINANT	LBS/DAY
CO	398
NOx (AS NO2)	127
PM10	21
TNMOC (AS CH4)	12.7
SOX (AS SO2)	79
[RULE 1303(b) (1)-MODELING, 1303(b) (2)-OFFSET]	

25. EXCEPT DURING PERIODS OF STARTUP AND SHUTDOWN NOT TO EXCEED 30 MINUTES PER INCIDENT, EMISSIONS OF CARBON MONOXIDE (CO) AND OXIDES OF NITROGEN (NOx) SHALL NOT EXCEED THE FOLLOWING LIMITS;

TURBINE LOADS >3000 KW

CO	68 PPMV @ 15% O2, DRY BASIS, AVERAGED OVER 60 MINUTES
NOx	18.75 PPMV @ 15% O2, DRY BASIS, AVERAGED OVER 60 MINUTES

TURBINE LOADS <3000 KW

CO	68 PPMV @ 15% O2, DRY BASIS, AVERAGED OVER 60 MINUTES
NOx	25 PPMV @ 15% O2, DRY BASIS, AVERAGED OVER 60 MINUTES

[RULE 204]



**FACILITY PERMIT TO OPERATE
LA COUNTY SANITATION DISTRICT (CALABASAS)**

Emissions Requirements:

26. THIS EQUIPMENT IS SUBJECT TO THE FOLLOWING APPLICABLE EMISSION LIMITS

CO: 2000 PPMV, DRY, 15 MIN. AVG., RULE 407
CO: 130 PPMV, @ 15% O₂, DRY, 60-MINUTE AVERAGE, RULE 1303, BACT/LAER
NO_x: 25 PPMV, @ 15% O₂, DRY, 60-MINUTE AVERAGE, RULE 1303, BACT/LAER
PM: 0.1 GRAINS/DSCF, AT 12% CO₂, RULE 409
TNMOC: 20 PPMV, AS HEXANE, @ 3% O₂, OR 98% (BY WT) DESTRUCTION EFFICIENCY, RULE 1150.1, 40 CFR 63 SUBPART AAAA
SO_x: 0.2%, RULE 53
SO_x: 0.90 LB/MWh OR 0.15 LB/MMBTU, NSPS, 40 CFR 60 SUBPART KKKK.

Periodic Monitoring:

27. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE NO_x EMISSION LIMIT(S) BY CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY FIVE YEARS USING AQMD METHOD 100.1 OR 7.1. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1303 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT. FOR THE PURPOSE OF DETERMINING COMPLIANCE WITH RULE 1303 CONCENTRATION LIMIT, THE EMISSIONS SHALL BE MEASURED AND AVERAGED OVER A 60 MINUTE TIME PERIOD. [RULE 3004 (a) (4)]
28. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE CO EMISSION LIMIT(S) BY CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY FIVE YEARS USING AQMD METHOD 100.1 OR 10.1. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT. [RULE 3004 (a) (4)]



**FACILITY PERMIT TO OPERATE
LA COUNTY SANITATION DISTRICT (CALABASAS)**

PERMIT TO OPERATE

**Permit No. G24677
A/N 458589**

Equipment Description:

LANDFILL GAS CONTROL AND GAS-TO-ENERGY SYSTEM, NO. 2, CONSISTING OF:

1. LANDFILL GAS (LFG) TREATMENT SYSTEM, SKID MOUNTED, 2500 SCFM @ 33% METHANE OR 51.6 MMBTU/HR CAPACITY, CONSISTING OF:
 - A. MOISTURE SEPARATOR.
 - B. COMPRESSOR, APPROXIMATE 700 HP.
 - C. HEAT EXCHANGER(S) AND GAS CHILLER.
 - D. TWO SORBENT BEDS, IN SERIES, EACH CONTAINING SILICA GEL OR EQUIVALENT MEDIA.
 - E. COALESCING FILTER FOR PARTICULATE MATTER REMOVAL, 0.3 MICRONS.
2. GAS TURBINE, SOLAR, MERCURY 50, LANDFILL GAS (LFG) AND NATURAL GAS AUGMENTATION, MAXIMUM 51.6 MILLION BTU PER HOUR INPUT RATING, SIMPLE CYCLE, WITH ELECTRIC START MOTOR, TEN-STAGE AXIAL FLOW COMPRESSOR, ULTRA LEAN PREMIX (ULP) ANNULAR COMBUSTOR, A RECUPERATOR, AUTOMATIC PILOT AND FUEL CONTROL SYSTEM, PROGRAMMABLE CONTROLLER, AND DRIVING A 4.6 MEGAWATT (MW) ELECTRIC GENERATOR.
3. EXHAUST STACK, 4' DIA. X 25' HIGH.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE 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]



**FACILITY PERMIT TO OPERATE
LA COUNTY SANITATION DISTRICT (CALABASAS)**

4. THIS EQUIPMENT SHALL ONLY BE FIRED WITH LANDFILL GAS OR A BLEND OF LANDFILL GAS AND NATURAL GAS FUEL. FOR THIS FUEL BLEND, THE HEAT INPUT FROM NATURAL GAS SHALL NOT EXCEED 25% OF THE TOTAL HEAT INPUT TO THE TURBINE ON AN ANNUAL BASIS. NATURAL GAS SHALL ONLY BE USED FOR START-UP AND FOR ADEQUATE PERFORMANCE OF THE TURBINE AS A LANDFILL GAS CONTROL DEVICE IN CASE THE QUALITY OF THE LANDFILL GAS IS NOT SUFFICIENT IN MEETING THE MANUFACTURER'S MINIMUM SPECIFICATIONS.
[RULE 204, 1303 (b) (2) OFFSET]
5. FLOW INDICATING AND RECORDING DEVICES SHALL BE INSTALLED AND MAINTAINED IN THE LANDFILL GAS AND NATURAL GAS SUPPLY LINE TO THE GAS TURBINE TO MEASURE AND RECORD THE QUANTITY OF LANDFILL GAS AND NATURAL GAS (IN SCFM) SUPPLIED.
[RULE 1303(b) (1)-MODELING, 1303(b) (2)-OFFSET, 3004 (a) (4)]
6. WEEKLY READINGS OF THE BTU CONTENT OF LANDFILL GAS AT THE INLET TO THE GAS TURBINE SHALL BE TAKEN USING AN INSTRUMENT APPROVED BY THE SCAQMD. ALL RESULTS SHALL BE RECORDED.
[RULE 1303(b) (2) - OFFSET, 3004 (a) (4)]
7. THE TOTAL COMBINED VOLUME AND HEAT INPUT OF LANDFILL GAS BURNED IN THE GAS TURBINES AND FLARES SHALL NOT EXCEED 8700 SCFM AND 178.2 MMBTU PER HOUR RESPECTIVELY. RECORDS OF LFG FLOW RATE, BTU CONTENT, AND TOTAL HEAT INPUT SHALL BE KEPT AND MAINTAINED ON FILE.
[RULE 1303(b) (1)-MODELING, 1303(b) (2)-OFFSET, 1309.1, 3004(a) (4)]
8. THE TOTAL HEAT INPUT OF LANDFILL GAS AND NATURAL GAS FUEL BLEND BURNED IN THE GAS TURBINE SHALL NOT EXCEED 51.6 MM BTU PER HOUR. A LOG SHALL BE KEPT INDICATING THE TOTAL HEATING VALUE OF LANDFILL GAS AND NATURAL GAS FUEL BLEND BURNED IN THE GAS TURBINE BASED ON THE RECORDED FLOW RATE (SCFM) FOR EACH FUEL AND THE LATEST WEEKLY BTU CONTENT READING.
[RULE 1303(b) (1)-MODELING, 1303(b) (2)-OFFSET, 3004 (a) (4)]
9. A CONTINUOUS COMBUSTION CHAMBER TEMPERATURE MONITORING AND RECORDING SYSTEM SHALL BE MAINTAINED 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 SCAQMD OR EPA APPROVED METHOD.
[40 CFR 64]
10. FOR THE PURPOSE OF THIS CONDITION, A DEVIATION SHALL BE DEFINED AS WHEN THE COMBUSTION CHAMBER TEMPERATURE LESS THAN 1100 DEGREES FAHRENHEIT OR GREATER 1300 DEGREES FAHRENHEIT OCCURS AVERAGED OVER ONE HOUR DURING OPERATION EXCEPT DURING START UP AND SHUTDOWN EVENTS LASTING FOR A MAXIMUM OF ONE HOUR. MULTIPLE START UP AND SHUTDOWN EVENTS CAN OCCUR CONSECUTIVELY.
[40 CFR 64]



**FACILITY PERMIT TO OPERATE
LA COUNTY SANITATION DISTRICT (CALABASAS)**

11. THE COMBUSTION CHAMBER TEMPERATURE SHALL BE RECORDED AT LEAST EVERY 15 MINUTES, AND THE 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 OCCURRED OR SHALL INSTALL AN ALARM SYSTEM TO ALERT THE OPERATOR WHEN A DEVIATION OCCURS.
[40 CFR 64]
12. ALL DEVIATIONS SHALL BE REPORTED TO THE SCAQMD 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.
[40 CFR 64]
13. FOR EACH SEMI-ANNUAL REPORTING PERIOD SPECIFIED IN CONDITION NO. 23 IN SECTION K, WHENEVER A DEVIATION OCCURS FROM THE TEMPERATURE, 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.
[40 CFR 64]
14. A SEMI-ANNUAL MONITORING REPORT SHALL BE SUBMITTED TO SCAQMD, WHICH SHALL INCLUDE BUT MAY NOT BE LIMITED TO THE TOTAL OPERATING TIME OF THIS EQUIPMENT AND THE TOTAL ACCUMULATED DURATION OF ALL DEVIATIONS FOR EACH SEMI-ANNUAL REPORTING PERIOD.
[40 CFR 64]
15. THE OWNER OR OPERATOR SHALL SUBMIT AN APPLICATION WITH A QUALITY IMPROVEMENT PLAN (QIP) IN ACCORDANCE WITH 40 CFR PART 64.8 TO THE SCAQMD IF AN ACCUMULATION OF DEVIATIONS EXCEEDS 5% 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 SCAQMD WITHIN 90 CALENDAR DAYS AFTER THE DUE DATE OF THE SEMI-ANNUAL MONITORING REPORT.
[40 CFR 64]
16. THE OPERATOR SHALL KEEP ALL RECORDS FOR A PERIOD OF AT LEAST FIVE (5) YEARS IN A FORMAT ACCEPTABLE TO THE SCAQMD AND IN COMPLIANCE WITH 40 CFR PART 64.9 AND SHALL BE MADE AVAILABLE TO SCAQMD PERSONNEL UPON REQUEST.
[RULE 1150.1, 40CFR PART 64, RULE 3004(a) (4)]
17. ALL RECORDING DEVICES SHALL BE SYNCHRONIZED WITH RESPECT TO THE TIME OF THE DAY.
[RULE 204]
18. LANDFILL GAS NOT UTILIZED BY THIS EQUIPMENT SHALL BE DIRECTED TO COMBUSTION OR PROCESSING FACILITY WHICH IS IN FULL USE, CAN ADEQUATELY PROCESS THE VOLUME OF GAS COLLECTED AND HAS BEEN ISSUED A VALID PERMIT BY THE SCAQMD.
[RULE 1303(a) (1)-BACT]



**FACILITY PERMIT TO OPERATE
LA COUNTY SANITATION DISTRICT (CALABASAS)**

19. 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 LANDFILL GAS SHALL BE REPORTED TO THE SCAQMD WITHIN ONE HOUR AFTER OCCURRENCE, OR WITHIN ONE HOUR OF THE TIME THE OPERATING PERSONNEL KNEW OR REASONABLY SHOULD HAVE KNOWN OF THE OCCURRENCE, AND IMMEDIATE REMEDIAL MEASURES SHALL BE UNDERTAKEN TO CORRECT THE PROBLEM AND PREVENT FURTHER EMISSIONS INTO THE ATMOSPHERE.
[RULE 402, 430, 1150.1]
20. THIS EQUIPMENT SHALL BE OPERATED IN COMPLIANCE WITH SCAQMD RULE 431.1.
[RULE 431.1]
21. ADEQUATE NUMBER OF SAMPLING PORTS AND WELDED NIPPLES WITH CAPS, WITH ITS SAFE ACCESS SHALL BE INSTALLED AND MAINTAINED IN THE EXHAUST STACK IN ACCORDANCE WITH RULE 217 AND SCAQMD'S APPROVAL.
[RULE 217]
22. A CONTINUOUS EMISSION MONITORING SYSTEM (CEMS), APPROVED BY THE EXECUTIVE OFFICER, SHALL BE INSTALLED, OPERATED AND MAINTAINED TO MEASURE THE EXHAUST CONCENTRATION FOR NO_x AND O₂, ON A DRY BASIS. IN ADDITION, THE SYSTEM SHALL CONVERT THE ACTUAL NO_x CONCENTRATION TO A CORRECTED NO_x CONCENTRATION AT 15% O₂ AND CONTINUOUSLY RECORD THE STACK NO_x CONCENTRATION AT 15% O₂. THIS MONITORING SYSTEM SHALL COMPLY WITH THE REQUIREMENTS OF SCAQMD RULE 218. PRIOR TO INSTALLATION, THIS MONITORING SYSTEM SHALL BE APPROVED IN WRITING BY THE EXECUTIVE OFFICER.
[RULE 218, 1303(b) (1)-MODELING, 1303(b) (2)-OFFSET, 3004 (a) (4),]
23. THE OPERATOR SHALL ANNUALLY CONDUCT COMPLIANCE SOURCE TESTS IN ACCORDANCE WITH THE APPROVED TEST PROCEDURES. WRITTEN RESULTS OF SUCH COMPLIANCE TESTS SHALL BE SUBMITTED WITHIN 60 DAYS AFTER TESTING. NOTICE SHALL BE PROVIDED TO THE AQMD 10 DAYS PRIOR TO THE TESTING SO THAT AN OBSERVER MAY BE PRESENT. ALL SOURCE TESTING SHALL BE AS PER AQMD APPROVED SOURCE TESTS PROTOCOL.

THE TESTS SHALL INCLUDE, BUT MAY NOT BE LIMITED TO, A TEST OF THE INLET LANDFILL GAS AND FUEL GAS BLEND AND THE GAS TURBINE EXHAUST FOR:

- A. METHANE AND TOTAL NON-METHANE HYDROCARBONS
- B. CARBON MONOXIDE (EXHAUST ONLY)
- C. OXIDES OF NITROGEN (EXHAUST ONLY)
- D. CARBON DIOXIDE
- E. TOTAL PARTICULATES (EXHAUST ONLY)
- F. C1 THROUGH C3 SULFUR COMPOUNDS (SPECIATED, INLET ONLY)
- G. TOXIC AIR CONTAMINANTS INCLUDING, BUT NOT LIMITED TO, BENZENE, CHLOROBENZENE, 1, 2-DICHLOROETHANE, 1, 1-DICHLOROETHENE, DICHLOROMETHANE, TETRACHLOROETHYLENE, TETRACHLOROMETHANE, TOLUENE, 1, 1, 1-TRICHLOROETHANE, TRICHLOROETHYLENE, TRICHLOROMETHANE, VINYL CHLORIDE, AND XYLENE ISOMERS.
- H. OXYGEN AND NITROGEN



**FACILITY PERMIT TO OPERATE
LA COUNTY SANITATION DISTRICT (CALABASAS)**

- I. MOISTURE CONTENT
- J. TEMPERATURE
- K. FLOW RATE
- L. VOLATILE ORGANIC COMPOUNDS (VOCS) CONTROL EFFICIENCY, WT% (BASED ON INLET AND EXHAUST VOCS)
- M. KW GENERATED.

THE REPORT SHALL PRESENT THE EMISSIONS DATA IN UNITS OF POUNDS PER HOUR (LB/HR), POUNDS PER MILLION BTU (LB/MMBTU), AND PARTS PER MILLION (PPMV) ON A DRY BASIS AT 15% O2 (CO, NOx, AND TNMOC).

[RULE 1150.1, 1303(a) (1)-BACT, 1303 (b) (1)-MODELING, 1303(b) (2)-OFFSET, 40 CFR 63 SUBPART AAAA, 3004 (a) (4)]

24. EMISSIONS FROM THE GAS TURBINE SHALL NOT EXCEED THE FOLLOWING:

CONTAMINANT	LBS/DAY
CO	398
NOx (AS NO2)	127
PM10	21
TNMOC (AS CH4)	12.7
SOX (AS SO2)	79

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

25. EXCEPT DURING PERIODS OF STARTUP AND SHUTDOWN NOT TO EXCEED 30 MINUTES PER INCIDENT, EMISSIONS OF CARBON MONOXIDE (CO) AND OXIDES OF NITROGEN (NOx) SHALL NOT EXCEED THE FOLLOWING LIMITS;

TURBINE LOADS >3000 KW

CO 68 PPMV @ 15% O2, DRY BASIS, AVERAGED OVER 60 MINUTES
NOx 18.75 PPMV @ 15% O2, DRY BASIS, AVERAGED OVER 60 MINUTES

TURBINE LOADS <3000 KW

CO 68 PPMV @ 15% O2, DRY BASIS, AVERAGED OVER 60 MINUTES
NOx 25 PPMV @ 15% O2, DRY BASIS, AVERAGED OVER 60 MINUTES

[RULE 204]



**FACILITY PERMIT TO OPERATE
LA COUNTY SANITATION DISTRICT (CALABASAS)**

Emissions Requirements:

26. THIS EQUIPMENT IS SUBJECT TO THE FOLLOWING APPLICABLE EMISSION LIMITS

CO: 2000 PPMV, DRY, 15 MIN. AVG., RULE 407
CO: 130 PPMV, @ 15% O₂, DRY, 60-MINUTE AVERAGE, RULE 1303, BACT/LAER
NO_x: 25 PPMV, @ 15% O₂, DRY, 60-MINUTE AVERAGE, RULE 1303, BACT/LAER
PM: 0.1 GRAINS/DSCF, AT 12% CO₂, RULE 409
TNMOC: 20 PPMV, AS HEXANE, @ 3% O₂, OR 98% (BY WT) DESTRUCTION EFFICIENCY, RULE 1150.1, 40 CFR 63 SUBPART AAAA
SO_x: 0.2%, RULE 53
SO_x: 0.90 LB/MWh OR 0.15 LB/MMBTU, NSPS, 40 CFR 60 SUBPART KKKK.

Periodic Monitoring:

27. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE NO_x EMISSION LIMIT(S) BY CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY FIVE YEARS USING AQMD METHOD 100.1 OR 7.1. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1303 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT. FOR THE PURPOSE OF DETERMINING COMPLIANCE WITH RULE 1303 CONCENTRATION LIMIT, THE EMISSIONS SHALL BE MEASURED AND AVERAGED OVER A 60 MINUTE TIME PERIOD. [RULE 3004 (a) (4)]
28. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE CO EMISSION LIMIT(S) BY CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY FIVE YEARS USING AQMD METHOD 100.1 OR 10.1. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT. [RULE 3004 (a) (4)]



**FACILITY PERMIT TO OPERATE
LA COUNTY SANITATION DISTRICT (CALABASAS)**

PERMIT TO OPERATE

**Permit No. G24678
A/N 458590**

Equipment Description:

LANDFILL GAS CONTROL AND GAS-TO-ENERGY SYSTEM, NO. 3, CONSISTING OF:

1. LANDFILL GAS (LFG) TREATMENT SYSTEM, SKID MOUNTED, 2500 SCFM @ 33% METHANE OR 51.6 MMBTU/HR CAPACITY, CONSISTING OF:
 - A. MOISTURE SEPARATOR.
 - B. COMPRESSOR, APPROXIMATE 700 HP.
 - C. HEAT EXCHANGER(S) AND GAS CHILLER.
 - D. TWO SORBENT BEDS, IN SERIES, EACH CONTAINING SILICA GEL OR EQUIVALENT MEDIA.
 - E. COALESCING FILTER FOR PARTICULATE MATTER REMOVAL, 0.3 MICRONS.
2. GAS TURBINE, SOLAR, MERCURY 50, LANDFILL GAS (LFG) AND NATURAL GAS AUGMENTATION, MAXIMUM 51.6 MILLION BTU PER HOUR INPUT RATING, SIMPLE CYCLE, WITH ELECTRIC START MOTOR, TEN-STAGE AXIAL FLOW COMPRESSOR, ULTRA LEAN PREMIX (ULP) ANNULAR COMBUSTOR, A RECUPERATOR, AUTOMATIC PILOT AND FUEL CONTROL SYSTEM, PROGRAMMABLE CONTROLLER, AND DRIVING A 4.6 MEGAWATT (MW) ELECTRIC GENERATOR.
3. EXHAUST STACK, 4' DIA. X 25' HIGH.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE 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]



**FACILITY PERMIT TO OPERATE
LA COUNTY SANITATION DISTRICT (CALABASAS)**

4. THIS EQUIPMENT SHALL ONLY BE FIRED WITH LANDFILL GAS OR A BLEND OF LANDFILL GAS AND NATURAL GAS FUEL. FOR THIS FUEL BLEND, THE HEAT INPUT FROM NATURAL GAS SHALL NOT EXCEED 25% OF THE TOTAL HEAT INPUT TO THE TURBINE ON AN ANNUAL BASIS. NATURAL GAS SHALL ONLY BE USED FOR START-UP AND FOR ADEQUATE PERFORMANCE OF THE TURBINE AS A LANDFILL GAS CONTROL DEVICE IN CASE THE QUALITY OF THE LANDFILL GAS IS NOT SUFFICIENT IN MEETING THE MANUFACTURER'S MINIMUM SPECIFICATIONS.
[RULE 204, 1303 (b) (2) OFFSET]
5. FLOW INDICATING AND RECORDING DEVICES SHALL BE INSTALLED AND MAINTAINED IN THE LANDFILL GAS AND NATURAL GAS SUPPLY LINE TO THE GAS TURBINE TO MEASURE AND RECORD THE QUANTITY OF LANDFILL GAS AND NATURAL GAS (IN SCFM) SUPPLIED.
[RULE 1303(b) (1)-MODELING, 1303(b) (2)-OFFSET, 3004 (a) (4)]
6. WEEKLY READINGS OF THE BTU CONTENT OF LANDFILL GAS AT THE INLET TO THE GAS TURBINE SHALL BE TAKEN USING AN INSTRUMENT APPROVED BY THE SCAQMD. ALL RESULTS SHALL BE RECORDED.
[RULE 1303(b) (2) - OFFSET, 3004 (a) (4)]
7. THE TOTAL COMBINED VOLUME AND HEAT INPUT OF LANDFILL GAS BURNED IN THE GAS TURBINES AND FLARES SHALL NOT EXCEED 8700 SCFM AND 178.2 MMBTU PER HOUR RESPECTIVELY. RECORDS OF LFG FLOW RATE, BTU CONTENT, AND TOTAL HEAT INPUT SHALL BE KEPT AND MAINTAINED ON FILE.
[RULE 1303(b) (1)-MODELING, 1303(b) (2)-OFFSET, 1309.1, 3004(a) (4)]
8. THE TOTAL HEAT INPUT OF LANDFILL GAS AND NATURAL GAS FUEL BLEND BURNED IN THE GAS TURBINE SHALL NOT EXCEED 51.6 MM BTU PER HOUR. A LOG SHALL BE KEPT INDICATING THE TOTAL HEATING VALUE OF LANDFILL GAS AND NATURAL GAS FUEL BLEND BURNED IN THE GAS TURBINE BASED ON THE RECORDED FLOW RATE (SCFM) FOR EACH FUEL AND THE LATEST WEEKLY BTU CONTENT READING.
[RULE 1303(b) (1)-MODELING, 1303(b) (2)-OFFSET, 3004 (a) (4)]
9. A CONTINUOUS COMBUSTION CHAMBER TEMPERATURE MONITORING AND RECORDING SYSTEM SHALL BE MAINTAINED 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 SCAQMD OR EPA APPROVED METHOD.
[40 CFR 64]
10. FOR THE PURPOSE OF THIS CONDITION, A DEVIATION SHALL BE DEFINED AS WHEN THE COMBUSTION CHAMBER TEMPERATURE LESS THAN 1100 DEGREES FAHRENHEIT OR GREATER 1300 DEGREES FAHRENHEIT OCCURS AVERAGED OVER ONE HOUR DURING OPERATION EXCEPT DURING START UP AND SHUTDOWN EVENTS LASTING FOR A MAXIMUM OF ONE HOUR. MULTIPLE START UP AND SHUTDOWN EVENTS CAN OCCUR CONSECUTIVELY.
[40 CFR 64]



**FACILITY PERMIT TO OPERATE
LA COUNTY SANITATION DISTRICT (CALABASAS)**

11. THE COMBUSTION CHAMBER TEMPERATURE SHALL BE RECORDED AT LEAST EVERY 15 MINUTES, AND THE 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 OCCURRED OR SHALL INSTALL AN ALARM SYSTEM TO ALERT THE OPERATOR WHEN A DEVIATION OCCURS.
[40 CFR 64]
12. ALL DEVIATIONS SHALL BE REPORTED TO THE SCAQMD 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.
[40 CFR 64]
13. FOR EACH SEMI-ANNUAL REPORTING PERIOD SPECIFIED IN CONDITION NO. 23 IN SECTION K, WHENEVER A DEVIATION OCCURS FROM THE TEMPERATURE, 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.
[40 CFR 64]
14. A SEMI-ANNUAL MONITORING REPORT SHALL BE SUBMITTED TO SCAQMD, WHICH SHALL INCLUDE BUT MAY NOT BE LIMITED TO THE TOTAL OPERATING TIME OF THIS EQUIPMENT AND THE TOTAL ACCUMULATED DURATION OF ALL DEVIATIONS FOR EACH SEMI-ANNUAL REPORTING PERIOD.
[40 CFR 64]
15. THE OWNER OR OPERATOR SHALL SUBMIT AN APPLICATION WITH A QUALITY IMPROVEMENT PLAN (QIP) IN ACCORDANCE WITH 40 CFR PART 64.8 TO THE SCAQMD IF AN ACCUMULATION OF DEVIATIONS EXCEEDS 5% 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 SCAQMD WITHIN 90 CALENDAR DAYS AFTER THE DUE DATE OF THE SEMI-ANNUAL MONITORING REPORT.
[40 CFR 64]
16. THE OPERATOR SHALL KEEP ALL RECORDS FOR A PERIOD OF AT LEAST FIVE (5) YEARS IN A FORMAT ACCEPTABLE TO THE SCAQMD AND IN COMPLIANCE WITH 40 CFR PART 64.9 AND SHALL BE MADE AVAILABLE TO SCAQMD PERSONNEL UPON REQUEST.
[RULE 1150.1, 40CFR PART 64, RULE 3004(a) (4)]
17. ALL RECORDING DEVICES SHALL BE SYNCHRONIZED WITH RESPECT TO THE TIME OF THE DAY.
[RULE 204]
18. LANDFILL GAS NOT UTILIZED BY THIS EQUIPMENT SHALL BE DIRECTED TO COMBUSTION OR PROCESSING FACILITY WHICH IS IN FULL USE, CAN ADEQUATELY PROCESS THE VOLUME OF GAS COLLECTED AND HAS BEEN ISSUED A VALID PERMIT BY THE SCAQMD.
[RULE 1303(a) (1)-BACT]



**FACILITY PERMIT TO OPERATE
LA COUNTY SANITATION DISTRICT (CALABASAS)**

19. 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 LANDFILL GAS SHALL BE REPORTED TO THE SCAQMD WITHIN ONE HOUR AFTER OCCURRENCE, OR WITHIN ONE HOUR OF THE TIME THE OPERATING PERSONNEL KNEW OR REASONABLY SHOULD HAVE KNOWN OF THE OCCURRENCE, AND IMMEDIATE REMEDIAL MEASURES SHALL BE UNDERTAKEN TO CORRECT THE PROBLEM AND PREVENT FURTHER EMISSIONS INTO THE ATMOSPHERE.
[RULE 402, 430, 1150.1]
20. THIS EQUIPMENT SHALL BE OPERATED IN COMPLIANCE WITH SCAQMD RULE 431.1.
[RULE 431.1]
21. ADEQUATE NUMBER OF SAMPLING PORTS AND WELDED NIPPLES WITH CAPS, WITH ITS SAFE ACCESS SHALL BE INSTALLED AND MAINTAINED IN THE EXHAUST STACK IN ACCORDANCE WITH RULE 217 AND SCAQMD'S APPROVAL.
[RULE 217]
22. A CONTINUOUS EMISSION MONITORING SYSTEM (CEMS), APPROVED BY THE EXECUTIVE OFFICER, SHALL BE INSTALLED, OPERATED AND MAINTAINED TO MEASURE THE EXHAUST CONCENTRATION FOR NO_x AND O₂, ON A DRY BASIS. IN ADDITION, THE SYSTEM SHALL CONVERT THE ACTUAL NO_x CONCENTRATION TO A CORRECTED NO_x CONCENTRATION AT 15% O₂ AND CONTINUOUSLY RECORD THE STACK NO_x CONCENTRATION AT 15% O₂. THIS MONITORING SYSTEM SHALL COMPLY WITH THE REQUIREMENTS OF SCAQMD RULE 218. PRIOR TO INSTALLATION, THIS MONITORING SYSTEM SHALL BE APPROVED IN WRITING BY THE EXECUTIVE OFFICER.
[RULE 218, 1303(b) (1)-MODELING, 1303(b) (2)-OFFSET, 3004 (a) (4),]
23. THE OPERATOR SHALL ANNUALLY CONDUCT COMPLIANCE SOURCE TESTS IN ACCORDANCE WITH THE APPROVED TEST PROCEDURES. WRITTEN RESULTS OF SUCH COMPLIANCE TESTS SHALL BE SUBMITTED WITHIN 60 DAYS AFTER TESTING. NOTICE SHALL BE PROVIDED TO THE AQMD 10 DAYS PRIOR TO THE TESTING SO THAT AN OBSERVER MAY BE PRESENT. ALL SOURCE TESTING SHALL BE AS PER AQMD APPROVED SOURCE TESTS PROTOCOL.

THE TESTS SHALL INCLUDE, BUT MAY NOT BE LIMITED TO, A TEST OF THE INLET LANDFILL GAS AND FUEL GAS BLEND AND THE GAS TURBINE EXHAUST FOR:

- A. METHANE AND TOTAL NON-METHANE HYDROCARBONS
- B. CARBON MONOXIDE (EXHAUST ONLY)
- C. OXIDES OF NITROGEN (EXHAUST ONLY)
- D. CARBON DIOXIDE
- E. TOTAL PARTICULATES (EXHAUST ONLY)
- F. C1 THROUGH C3 SULFUR COMPOUNDS (SPECIATED, INLET ONLY)
- G. TOXIC AIR CONTAMINANTS INCLUDING, BUT NOT LIMITED TO, BENZENE, CHLOROBENZENE, 1, 2-DICHLOROETHANE, 1, 1-DICHLOROETHENE, DICHLOROMETHANE, TETRACHLOROETHYLENE, TETRACHLOROMETHANE, TOLUENE, 1, 1, 1-TRICHLOROETHANE, TRICHLOROETHYLENE, TRICHLOROMETHANE, VINYL CHLORIDE, AND XYLENE ISOMERS.
- H. OXYGEN AND NITROGEN



**FACILITY PERMIT TO OPERATE
LA COUNTY SANITATION DISTRICT (CALABASAS)**

- I. MOISTURE CONTENT
- J. TEMPERATURE
- K. FLOW RATE
- L. VOLATILE ORGANIC COMPOUNDS (VOCS) CONTROL EFFICIENCY, WT% (BASED ON INLET AND EXHAUST VOCS)
- M. KW GENERATED.

THE REPORT SHALL PRESENT THE EMISSIONS DATA IN UNITS OF POUNDS PER HOUR (LB/HR), POUNDS PER MILLION BTU (LB/MMBTU), AND PARTS PER MILLION (PPMV) ON A DRY BASIS AT 15% O2 (CO, NOx, AND TNMOC).

[RULE 1150.1, 1303(a) (1)-BACT, 1303 (b) (1)-MODELING, 1303(b) (2)-OFFSET, 40 CFR 63 SUBPART AAAA, 3004 (a) (4)]

- 24. EMISSIONS FROM THE GAS TURBINE SHALL NOT EXCEED THE FOLLOWING:

CONTAMINANT	LBS/DAY
CO	398
NOx (AS NO2)	127
PM10	21
TNMOC (AS CH4)	12.7
SOX (AS SO2)	79

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

- 25. EXCEPT DURING PERIODS OF STARTUP AND SHUTDOWN NOT TO EXCEED 30 MINUTES PER INCIDENT, EMISSIONS OF CARBON MONOXIDE (CO) AND OXIDES OF NITROGEN (NOx) SHALL NOT EXCEED THE FOLLOWING LIMITS;

TURBINE LOADS >3000 KW

CO 68 PPMV @ 15% O2, DRY BASIS, AVERAGED OVER 60 MINUTES
NOx 18.75 PPMV @ 15% O2, DRY BASIS, AVERAGED OVER 60 MINUTES

TURBINE LOADS <3000 KW

CO 68 PPMV @ 15% O2, DRY BASIS, AVERAGED OVER 60 MINUTES
NOx 25 PPMV @ 15% O2, DRY BASIS, AVERAGED OVER 60 MINUTES

[RULE 204]



**FACILITY PERMIT TO OPERATE
LA COUNTY SANITATION DISTRICT (CALABASAS)**

Emissions Requirements:

26. THIS EQUIPMENT IS SUBJECT TO THE FOLLOWING APPLICABLE EMISSION LIMITS

CO: 2000 PPMV, DRY, 15 MIN. AVG., RULE 407
CO: 130 PPMV, @ 15% O₂, DRY, 60-MINUTE AVERAGE, RULE 1303, BACT/LAER
NO_x: 25 PPMV, @ 15% O₂, DRY, 60-MINUTE AVERAGE, RULE 1303, BACT/LAER
PM: 0.1 GRAINS/DSCF, AT 12% CO₂, RULE 409
TNMOC: 20 PPMV, AS HEXANE, @ 3% O₂, OR 98% (BY WT) DESTRUCTION EFFICIENCY, RULE 1150.1, 40 CFR 63 SUBPART AAAA
SO_x: 0.2%, RULE 53
SO_x: 0.90 LB/MWh OR 0.15 LB/MMBTU, NSPS, 40 CFR 60 SUBPART KKKK.

Periodic Monitoring:

27. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE NO_x EMISSION LIMIT(S) BY CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY FIVE YEARS USING AQMD METHOD 100.1 OR 7.1. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1303 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT. FOR THE PURPOSE OF DETERMINING COMPLIANCE WITH RULE 1303 CONCENTRATION LIMIT, THE EMISSIONS SHALL BE MEASURED AND AVERAGED OVER A 60 MINUTE TIME PERIOD. [RULE 3004 (a) (4)]
28. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE CO EMISSION LIMIT(S) BY CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY FIVE YEARS USING AQMD METHOD 100.1 OR 10.1. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT. [RULE 3004 (a) (4)]



FACILITY PERMIT TO OPERATE LA COUNTY SANITATION DISTRICT (CALABASAS)

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
LA COUNTY SANITATION DISTRICT (CALABASAS)**

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 REGULATIONS:

VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS



**FACILITY PERMIT TO OPERATE
LA COUNTY SANITATION DISTRICT (CALABASAS)**

RULE 219 EQUIPMENT

Equipment Description:

RULE 219 EXEMPT EQUIPMENT, WOOD CHIPPING/GRINDING OPERATIONS.

Emissions and Requirements:

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

RULE 1133
RULE 1133.1



**FACILITY PERMIT TO OPERATE
LA COUNTY SANITATION DIST (CALABASAS)**

**Permit to Construct and Temporary Permit to Operate
(Section H)**

This section consists of a table listing all equipment with Permits to Construct and copies of all individual Permits to Construct issued to various equipment at the facility. Each permit 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.

NONE