

## FACILITY PERMIT TO OPERATE SUNSHINE CANYON LANDFILL

### PERMIT TO CONSTRUCT/OPERATE

Permit No.  
A/N 510147

#### Equipment Description

LANDFILL LEACHATE/CONDENSATE COLLECTION AND TREATMENT SYSTEM CONSISTING OF:

1. LANDFILL LEACHATE/ CONDENSATE EXTRACTION WELLS, PUMPS AND PIPING.
2. INFLUENT SURGE TANK, LEACHATE/CONDENSATE, 8,000 GALLONS, VENTED TO A 200 LB CARBON ADSORBER.
3. EMERGENCY STORAGE TANK, LEACHATE/CONDENSATE, 12,000 GALLONS, VENTED TO A 200 LB CARBON ADSORBER (COMMON TO THE INFLUENT SURGE TANK).
4. TWO AERATION BLOWERS, EACH 300 SCFM MAXIMUM FLOW RATE.
5. TWO PACT REACTORS, LEACHATE/CONDENSATE, EACH 15,000 GALLONS, VENTED TO TWO CARBON ADSORBERS, IN SERIES, EACH 2,000 LBS OF ACTIVATED CARBON.
6. SLUDGE STORAGE TANK, UP TO 5,000 GALLONS, VENTED TO A 200 LB CARBON ADSORBER.
7. SLUDGE FILTER PRESS, 50 GAL/HR.
8. SODIUM HYDROXIDE TANK.
9. NUTRIENTS TANK, AMMONIUM PHOSPHATE/PHOSPHORIC ACID, UP TO 325 GAL.
10. ASSOCIATED PUMPS.

#### Conditions

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THIS 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]

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3. THIS EQUIPMENT SHALL BE OPERATED AND MAINTAINED BY PERSONNEL PROPERLY TRAINED IN ITS OPERATION  
[RULE 204]
4. THE OPERATION OF THIS EQUIPMENT SHALL NOT RESULT IN THE RELEASE OF ANY RAW LANDFILL GAS.  
[RULE 402]
5. THE OPERATION OF THIS EQUIPMENT SHALL NOT RESULT IN THE DISCHARGE OF UNTREATED ODOROUS LIQUID.  
[RULE 402]
6. THE TOTAL AMOUNT OF LEACHATE/CONDENSATE TREATED (IN THE TREATMENT SYSTEM) SHALL NOT EXCEED 20,000 GALLONS PER DAY.  
[RULE 1303(b)(2)-OFFSET]
7. A TOTALIZING FLOW METER SHALL BE INSTALLED AT THE INFLUENT FEED LINE AND AT THE EFFLUENT DISCHARGE LINE TO INDICATE THE TOTAL AMOUNT (IN GALLONS) OF LEACHATE/CONDENSATE TREATED BY THIS SYSTEM.  
[RULE 1303(a)(1)-BACT]
8. THE PACT REACTOR SHALL NOT BE OPERATED UNLESS OFF GASES ARE VENTED TO TWO CARBON ADSORBERS, CONNECTED IN SERIES, EACH WITH AT LEAST 2000 LBS OF ACTIVATED CARBON.  
[RULE 1303(a)(1)-BACT]
9. THE CONCENTRATION OF TOTAL NON-METHANE HYDROCARBONS SHALL BE MEASURED AND RECORDED AT THE INLET, MIDPOINT AND THE OUTLET OF CARBON ADSORBERS VENTING THE PACT REACTORS, AT LEAST QUARTERLY USING AN ORGANIC VAPOR ANALYZER OR OTHER APPROVED METHOD. THE MONITOR SHALL BE CALIBRATED WITH OR RESULTS CORRELATED TO HEXANE, AND MAINTAINED AND CALIBRATED PER EPA METHOD 21. CALIBRATION SHALL BE PERFORMED PRIOR TO EACH MONITORING VISIT.  
[RULE 1303(a)(1)-BACT]
10. WHENEVER THE TNMOC CONCENTRATION AT THE OUTLET OF THE PRIMARY CARBON ADSORBER INDICATES THAT THE ADSORPTION EFFICIENCY HAS DROPPED BELOW 90 PERCENT AND EXCEEDS 50 PPM, THE CARBON SHALL BE REPLACED AS FOLLOWS:
  - I. PRIMARY CARBON ADSORBER SHALL BE REPLACED WITH EITHER FRESH ACTIVATED CARBON OR,
  - II. ADSORBENT FROM THE SECONDARY ADSORBER AND THE SECONDARY CARBON ADSORBER SHALL BE REPLACED WITH FRESH ACTIVATED CARBON.  
[RULE 1303(a)(1)-BACT]
11. SPENT CARBON FROM THE CARBON ADSORBERS SHALL BE STORED IN CLOSED CONTAINERS PRIOR TO DISPOSAL OR REGENERATION.  
[RULE 402]

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12. THE INFLUENT SURGE TANK AND EMERGENCY STORAGE TANK SHALL BE VENTED TO A COMMON CARBON ADSORBER WITH AT LEAST 200 LBS OF ACTIVATED CARBON.  
[RULE 1303(a)(1)-BACT]
13. THE SLUDGE STORAGE TANK SHALL BE VENTED TO A CARBON ADSORBER, WITH AT LEAST 200 LBS OF ACTIVATED CARBON.  
[RULE 1303(a)(1)-BACT]
14. THE CONCENTRATION OF NMOC SHALL BE MEASURED AND RECORDED AT THE INLET AND OUTLET OF THE CARBON ADSORBERS VENTING THE INFLUENT SURGE TANK, EMERGENCY STORAGE TANK AND THE SLUDGE STORAGE TANK AT LEAST QUARTERLY USING AN ORGANIC VAPOR ANALYZER OR OTHER APPROVED METHOD. THE MONITOR SHALL BE CALIBRATED WITH OR RESULTS CORRELATED TO HEXANE, AND MAINTAINED AND CALIBRATED PER EPA METHOD 21. CALIBRATION SHALL BE PERFORMED PRIOR TO EACH MONITORING VISIT  
[RULE 1303(a)(1)-BACT]
15. WHENEVER THE TNMOC CONCENTRATION AT THE OUTLET OF THE CARBON ADSORBER VENTING THE INFLUENT SURGE TANK, EMERGENCY STORAGE TANK AND THE SLUDGE STORAGE TANK INDICATES THAT THE ADSORPTION EFFICIENCY HAS DROPPED BELOW 90 PERCENT, THE CARBON SHALL BE REPLACED.  
[RULE 1303(a)(1)-BACT]
16. A LOG SHALL BE MAINTAINED THAT INDICATES THE DATE OF ANY CARBON REPLACEMENT.  
[RULE 1303(a)(1)-BACT]
17. TOTAL ORGANIC COMPOUND EMISSIONS FROM THE FINAL OUTLET OF ANY OF THE CARBON ADSORBERS TO THE ATMOSPHERE SHALL NOT EXCEED 50 PPMV AS HEXANE.  
[RULE 1303(a)(1)-BACT]
18. THE LEACHATE/CONDENSATE FROM THE SLUDGE FILTER PRESS SHALL BE RETURNED TO THE INFLUENT TANK FOR TREATMENT.  
[RULE 402, 1303(a)(1)-BACT]
19. ANY LIQUID USED FOR DUST CONTROL OR OTHER PURPOSES SHALL BE ODORLESS, SHALL NOT CONTAIN TOTAL VOLATILE ORGANIC COMPOUNDS IN EXCESS OF 45 UG/L AND SHALL BE MONITORED AND RECORDED MONTHLY.  
[RULE 402]
20. SULDGE CAKE FROM THE FILTER PRESS SHALL BE PROPERLY DISPOSED.  
[RULE 402]
21. ALL CONNECTIONS, VALVES AND OPENINGS SHALL BE PROPERLY SEALED OR CLOSED TO PREVENT RAW LEACHATE/CONDENSATE VAPORS FROM ENTERING INTO THE ATMOSPHERE.  
[RULE 402]
22. ALL LEACHATE/ CONDENSATE COLLECTED SHALL BE PROPERLY DISPOSED OR TREATED.

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[RULE 402]

23. RECORDS SHALL BE MAINTAINED TO VERIFY COMPLIANCE WITH THE CONDITIONS OF THIS PERMIT FOR AT LEAST TWO YEARS AND MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.

[RULE 1303(a)(1)-BACT]

24. THIS PERMIT SHALL EXPIRE IF CONSTRUCTION OF THIS EQUIPMENT IS NOT COMPLETE WITHIN ONE YEAR FROM THE DATE OF ISSUANCE OF THIS PERMIT UNLESS AN EXTENSION IS GRANTED BY THE EXECUTIVE OFFICER.

[RULE 204]