



FACILITY PERMIT TO OPERATE

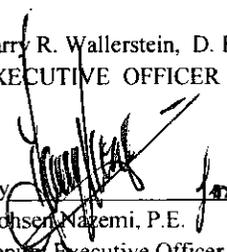
**EASTERN MUNICIPAL WATER DISTRICT
42565 AVENIDA ALVARADO
TEMECULA, CA 92590**

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 EASTERN MUNICIPAL WATER DISTRICT

TABLE OF CONTENTS

Section	Description	Revision #	Date Issued
A	Facility Information	1	11/18/2011
B	RECLAIM Annual Emission Allocation	0	10/13/2008
C	Facility Plot Plan	TO BE DEVELOPED	
D	Facility Description and Equipment Specific Conditions	6	02/26/2013
E	Administrative Conditions	0	10/13/2008
F	RECLAIM Monitoring and Source Testing Requirements	0	10/13/2008
G	Recordkeeping and Reporting Requirements for RECLAIM Sources	0	10/13/2008
H	Permit To Construct and Temporary Permit to Operate	7	02/26/2013
I	Compliance Plans & Schedules	0	10/13/2008
J	Air Toxics	0	10/13/2008
K	Title V Administration	0	10/13/2008
Appendix			
A	NOx and SOx Emitting Equipment Exempt From Written Permit Pursuant to Rule 219	0	10/13/2008
B	Rule Emission Limits	0	10/13/2008



**FACILITY PERMIT TO OPERATE
EASTERN MUNICIPAL WATER DISTRICT**

**Facility Equipment and Requirements
(Section D)**

This section consists of a table listing all permitted equipment at the facility, facility wide requirements, copies of all individual Permits to Operate issued to various equipment at the facility, and Rule 219-exempt equipment subject to source-specific requirements. Each permit and Rule 219-exempt equipment will list operating conditions including periodic monitoring requirements, and applicable emission limits and requirements 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 EASTERN MUNICIPAL WATER DISTRICT

PERMITTED EQUIPMENT LIST

The following is a list of all permits to construct and permits to operate at this facility:

Application No.	Permit No.	Equipment description	Page No.
282151	R-D93897	DIGESTER GAS DESULFURIZATION SYSTEM	4
338292	R-N7637	SERV STAT STORAGE & DISPENSING GASOLINE	5
369219	R-G5387	BIOFILTER (>100 CFM)	7
415794	G5398	FLARE, ENCLOSED LANDFILL/DIGESTER GAS	9
435791	F97959	SEWAGE TREATMENT (>5 MG/D) ANAEROBIC	12
451352	F81225	ODOR CONTROL UNIT	16
466456	G5388	STORAGE TANK, LPG	18
485846	R-G11845	ICE (>500 HP) EMERGENCY ELEC GENERATOR- NAT GAS ONLY	20
485847	R-G11844	ICE (>500 HP) EMERGENCY ELEC GENERATOR- NAT GAS ONLY	22
486643	G11846	ICE (>500 HP) NON-EMERGENCY STAT GAS-LPG	24
486644	R-G5389	ICE (>500 HP) NON-EMERGENCY STATIONARY NAT GAS	28
504699	G11842	SLUDGE DEWATERING SYSTEM	31
513647	R-G11843	ICE (>500 HP) NON-EMERGENCY STATIONARY NAT GAS ONLY	32
518817	G13883	ICE (50-500 HP) NON- EMERGENCY STATIONARY NAT GAS ONLY	34
526292	G23189	ICE (>500 HP) NON- EMERGENCY STATIONARY OTHER FUEL	38
526293	G23188	ICE (>500 HP) NON- EMERGENCY STATIONARY OTHER FUEL	41
541131	G22797	ICE (>500 HP) EMERGENCY ELEC. GENERATOR DIESEL	44

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



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

FACILITY WIDE CONDITION(S)

Condition(s):

1. THE OPERATOR SHALL NOT USE FUEL OIL CONTAINING SULFUR COMPOUNDS IN EXCESS OF 0.05 PERCENT BY WEIGHT. AFTER JUNE 1, 2004, THE OPERATOR SHALL NOT PURCHASE ANY DIESEL FUEL 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]
2. THE FACILITY SHALL NOT EMIT MORE THAN 5 LBS/DAY OF TOTAL SULFUR COMPOUNDS, CALCULATED AS H₂S, FROM BURNING OF GASEOUS FUELS OTHER THAN NATURAL GAS.
[RULE 431.1]
3. THE OWNER/OPERATOR SHALL NOT DISCHARGE FROM ANY SINGLE SOURCE SULFUR COMPOUNDS IN ANY STATE OR COMBINATION IN EXCESS OF 0.05 PERCENT BY VOLUME AS SO₂.
[RULE 53(a)(1)]
4. ACCIDENTAL RELEASE PREVENTION REQUIREMENTS OF SECTION 112(R)(7):
THE OPERATOR SHALL COMPLY WITH THE ACCIDENTAL RELEASE PREVENTION REQUIREMENTS PURSUANT TO 40 CFR PART 68 AND SHALL SUBMIT TO THE EXECUTIVE OFFICER, AS PART OF ANNUAL COMPLIANCE CERTIFICATION, A STATEMENT THAT CERTIFIES COMPLIANCE WITH ALL THE REQUIREMENTS OF 40 CFR PART 68, INCLUDING THE REGISTRATION AND SUBMISSION OF A RISK MANAGEMENT PLAN (RMP).
THE OPERATOR SHALL SUBMIT ANY ADDITIONAL RELEVANT INFORMATION REQUESTED BY THE EXECUTIVE OFFICER OR DESIGNATED AGENCY.
[40 CFR68-ACCIDENTAL RELEASE PREVENTION]



**FACILITY PERMIT TO OPERATE
EASTERN MUNICIPAL WATER DISTRICT**

PERMIT TO OPERATE

**Permit No. R-D93897
A/N 282151**

Equipment Description:

DIGESTER GAS DESULPHURIZATION SYSTEM, WITH TWO IRON SPONGE UNITS, EACH 9'-6" L. X 5'-6" W.
X 7'-0" H.

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 MUST BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]

THIS PERMIT TO OPERATE R-D93897 SUPERSEDES PERMIT TO OPERATE D93897 ISSUED ON OCTOBER 17, 1995.



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

PERMIT TO OPERATE

Permit No. R-N7637
A/N 338292

Equipment Description:

FUEL STORAGE AND DISPENSING SYSTEM CONSISTING OF:

1. STORAGE TANK, ABOVEGROUND, GASOLINE/DIESEL, CON VAULT, 11'-3" W. X 8'-0" L. X 5'-6" H. 2,000 GALLONS (SPLIT 1,000 GAL. GASOLINE/1,000 GAL. DIESEL), WITH CONCRETE INSULATION, A PRESSURE RELIEF VALVE AND COAXIAL DROP TUBE.
2. GASOLINE DISPENSING NOZZLE WITH A 12'-6" L. HOSE ON A SIDE MOUNTED DISPENSE, PHASE II VAPOR RECOVERY SYSTEM AND A BALANCE HI HOSE BALANCE SYSTEM.

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. PHASE I VAPOR RECOVERY SYSTEM SHALL BE IN FULL OPERATION WHENEVER FUEL IS BEING TRANSFERRED INTO STORAGE TANKS.
[RULE 461]
4. PHASE II VAPOR RECOVERY SYSTEM SHALL BE IN FULL OPERATION WHENEVER FUEL IS BEING TRANSFERRED INTO VEHICLE FUEL TANKS.
[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]
6. THE MAXIMUM QUANTITY OF GASOLINE TRANSFERRED INTO THE STORAGE TANK AT THIS FACILITY SHALL NOT EXCEED 5,000 GALLONS IN ANY ONE CALENDAR MONTH NOR 60,000 GALLONS IN ANY ONE CALENDAR YEAR.
[RULE 1303]



**FACILITY PERMIT TO OPERATE
EASTERN MUNICIPAL WATER DISTRICT**

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 EASTERN MUNICIPAL WATER DISTRICT

PERMIT TO OPERATE

Permit No. R-G5387
A/N 369219

Equipment Description:

AIR POLLUTION CONTROL SYSTEM CONSISTING OF:

1. BIOFILTERS, NO. 1 AND NO. 2, SOIL TYPE, EACH 60'-0" W. X 60'-0" L. X 6'-6" TO 7'-9" D., OVERALL DIMENSIONS, CONTAINING 3 FEET OF BIOFILTER MEDIA, SPRINKLER SYSTEM, WITH INCOMING FOUL AIR AND EXHAUST AIR HUMIDIFICATION.
2. EXHAUST SYSTEM WITH TWO VENTILATION FANS, EACH 30 H.P. AND 10,750 CFM, VENTING THE HEADWORKS SYSTEM CONSISTING OF A GRINDING/SCREENING REMOVAL UNITS' CHANNEL, A BYPASS MANUAL BAR SCREEN CHANNEL, VORTEX GRIT BASINS, HEADWORKS SPLITTER BOX, AND COVERED PRIMARY CLARIFIERS.

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. THE CONCENTRATION OF H₂S EMISSIONS FROM THE BIOFILTER SHALL BE MEASURED AT LEAST ONCE PER WEEK, AT A MINIMUM OF 10 POINTS, REPRESENTATIVE OF THE ENTIRE SURFACE. THE AVERAGE H₂S CONCENTRATION SHALL NOT EXCEED 1 PPMV AT ANY POINT ON THE SURFACE OF THE BIOFILTER.
[RULE 402]
5. THE FOUL AIR STREAM MOISTURIZING SYSTEM AND/OR THE SPRINKLERS SHOULD BE UTILIZED AS NEEDED TO MAINTAIN THE BIOFILTERS AT THE OPTIMAL MOISTURE CONTENT.
[RULE 204]
6. THE BIOFILTER MEDIA SHOULD BE REPLACED OR REPLENISHED AS NEEDED TO MAINTAIN ADEQUATE PERFORMANCE.
[RULE 402]



**FACILITY PERMIT TO OPERATE
EASTERN MUNICIPAL WATER DISTRICT**

7. ONCE EVERY SIX MONTHS, SMOKE TESTS SHALL BE CONDUCTED TO ENSURE EVEN DISTRIBUTION OF FOUL AIR THROUGH EACH BIOFILTER.

THIS PERMIT TO OPERATE R-G5387 SUPERSEDES PERMIT TO OPERATE G5387 ISSUED ON DECEMBER 10, 2009.



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

PERMIT TO OPERATE

Permit No. G5398
A/N 415794

Equipment Description:

DIGESTER GAS FLARING SYSTEM CONSISTING OF:

1. ONE (1) ENCLOSED FLARE, JOHN ZINK, MODEL ZTOF, 18,000,000 BTU/HR, 5'-0" DIA. X 40'-0" H.
2. DIGESTER GAS PILOT SYSTEM WITH NATURAL GAS BACK-UP PILOT SYSTEM AND ELECTRIC IGNITION.
3. ULTRAVIOLET FLAME DETECTOR.
4. KNOCKOUT VESSEL.
5. TWO COMBUSTION AIR BLOWERS, ¼ H.P. EACH.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS EQUIPMENT SHALL BE OPERATED AND MAINTAINED BY PERSONNEL PROPERLY TRAINED IN ITS OPERATION.
[RULE 204]
4. FOUR (4) SAMPLING PORTS SHALL BE PROVIDED IN THE FLARE STACK AT LEAST ONE-HALF DUCT DIAMETER UPSTREAM OF THE FLARE OUTLET, 90 DEGREES APART. EACH SAMPLING PORT SHALL CONSIST OF A FOUR-INCH COUPLING WITH PLUG. ALL PORTS SHALL BE PROPERLY CENTERED. AN EQUIVALENT METHOD OF EMISSION SAMPLING MAY BE USED UPON APPROVAL BY THE EXECUTIVE OFFICER. ADEQUATE AND SAFE ACCESS TO ALL SOURCE TEST PORTS SHALL BE PROVIDED WITHIN 48 HOURS NOTICE BY SCAQMD.
[RULE 1303]



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

5. A SAMPLING PORT SHALL BE INSTALLED AT THE INLET GAS LINE TO THE FLARE TO ALLOW COLLECTION OF DIGESTER GAS SAMPLING.
[RULE 1303]
6. THE FLARE SHALL BE EQUIPPED WITH AT LEAST ONE TEMPERATURE INDICATOR AND RECORDING DEVICE WHICH MEASURES AND RECORDS THE GAS TEMPERATURE IN THE FLARE STACK. THE TEMPERATURE INDICATOR AND RECORDING DEVICE 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 FIVE (5) FEET FROM THE TOP OF THE STACK.
[RULE 1303]
7. WHENEVER THE FLARE IS IN OPERATION, A TEMPERATURE OF NOT LESS THAN 1400 DEGREES F, AS MEASURED BY AN APPROVED TEMPERATURE INDICATOR, SHALL BE MAINTAINED IN THE FLARE STACK.
[RULE 1303]
8. THE FLARE SHALL BE EQUIPPED WITH AN AUTOMATIC SHUT-DOWN SYSTEM WITH A FAILURE ALARM, WHICH HAS BEEN APPROVED BY THE SCAQMD, TO AUTOMATICALLY ISOLATE THE FLARE FROM THE DIGESTER GAS SUPPLY LINE, SHUT OFF THE BLOWER AND IMMEDIATELY NOTIFY A RESPONSIBLE PARTY OF THE SHUT-DOWN.
[RULE 1303]
9. THE AUTOMATIC SHUT-DOWN SAFETY SYSTEM SHALL BE TESTED MONTHLY FOR PROPER OPERATION AND THE RESULTS RECORDED.
[RULE 1303]
10. THE TOTAL VOLUME OF DIGESTER GAS BURNED IN THE FLARE SHALL NOT EXCEED 480 STANDARD CUBIC FEET PER MIN.
[RULE 1303]
11. THE HEAT INPUT THROUGH THE FLARE SHALL NOT EXCEED 18 MILLION BTU'S PER HOUR.
[RULE 1303]
12. WEEKLY READINGS OF BTU CONTENT OF THE GAS AT THE INLET TO THE FLARE SHALL BE TAKEN USING AN INSTRUMENT APPROVED BY THE SCAQMD. ALL RESULTS SHALL BE RECORDED.
[RULE 1303]
13. ALL DIGESTER GAS COLLECTED SHALL BE DIRECTED TO THE FLARE FOR COMBUSTION OR TO A TREATMENT FACILITY WHICH HAS A VALID PERMIT TO CONSTRUCT OR OPERATE OR IS EXEMPT PER RULE 219 FROM THE SCAQMD.
[RULE 1303]
14. ALL RECORDING DEVICES SHALL BE SYNCHRONIZED WITH RESPECT TO THE TIME OF DAY.
[RULE 1303]
15. THE MAXIMUM FLARE SKIN TEMPERATURE AT ANY LOCATION SHALL NOT EXCEED 250 DEGREES FAHRENHEIT.
[RULE 217]



**FACILITY PERMIT TO OPERATE
EASTERN MUNICIPAL WATER DISTRICT**

16. A FLOW INDICATING AND RECORDING DEVICE SHALL BE INSTALLED IN THE DIGESTER GAS SUPPLY LINE TO THE FLARE TO MEASURE AND RECORD THE QUANTITY OF DIGESTER GAS BURNED IN THE FLARE.
[RULE 1303]

17. THE OPERATION OF THIS EQUIPMENT SHALL NOT RESULT IN THE RELEASE OF ANY RAW DIGESTER GAS INTO THE ATMOSPHERE. ANY BREAKDOWN OR MALFUNCTION WHICH RESULTS IN EMISSIONS OF RAW DIGESTER GAS SHALL BE REPORTED TO THE SCAQMD WITHIN ONE HOUR AFTER OCCURRENCE AND IMMEDIATE REMEDIAL MEASURES SHALL BE UNDERTAKEN TO CORRECT THE PROBLEM AND PREVENT FURTHER EMISSIONS INTO THE ATMOSPHERE.
[RULE 1303]

Emissions and Requirements:

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

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
PM: 26 LBS/MMSCF OF INLET GAS, RULE 1303
NOX: 1.44 LB/HR, RULE 1303
NOX: 0.06 LB/MMBTU OF INLET GAS, RULE 1303
CO: 3.60 LB/HR, RULE 1303
SOX: 0.31 LB/HR, RULE 1303



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

PERMIT TO OPERATE

Permit No. F97959
A/N 435791

Equipment Description:

SEWAGE TREATMENT PLANT, 18 MGD CAPACITY CONSISTING OF:

- I. PRELIMINARY TREATMENT (HEADWORKS):
 1. TWO SCREENING REMOVAL UNITS.
 2. ONE MANUAL BYPASS BAR SCREEN.
 3. TWO VORTEX GRIT BASINS, 16'-0" DIA. X 6' - 10" D.
 4. SPLITTER BOX WITH ASSOCIATED CONVEYORS, WASHERS, BINS, PIPING AND PUMPS.
 5. STORAGE TOTES, EACH 250 GALLONS CAPACITY, POLYMER, WITH ASSOCIATED PUMPS AND PIPING.
 6. STORAGE TANK, 6,000 GALLON CAPACITY FRP, FERRIC CHLORIDE, WITH ASSOCIATED PUMPS AND PIPING.

- II. PLANT NO. 1:
 1. PRIMARY TREATMENT:
 - A. FOUR PRIMARY CLARIFIERS, COVERED, EACH 20'-0" W. X 89'-0" L. X 10'-0" D., WITH ASSOCIATED COLLECTORS, DRIVES, PUMPS, AND PIPING.
 - B. PRIMARY FLOW EQUALIZATION BASIN, 75'-0" W. X 280'-0" L. X 15'-0" D., WITH ASSOCIATED AERATORS AND PUMPS.
 2. SECONDARY TREATMENT:
 - A. SIX AERATION BASINS, EACH 30'-0" W. X 150'-0" L. X 15'-0" D., WITH ASSOCIATED AERATION SYSTEM, MIXERS, PUMPS AND PIPING.
 - B. SEVEN SECONDARY CLARIFIERS, EACH 20'-0" W. X 100'-0" L. X 10'-0" D., WITH ASSOCIATED COLLECTORS, DRIVES, PUMPS, AND PIPING.

- III. PLANT NO. 2:
 1. PRIMARY TREATMENT:
 - A. SIX PRIMARY CLARIFIERS, COVERED, EACH 20'-0" W. X 90'-0" L. X 12'-0" D., WITH ASSOCIATED COLLECTORS, DRIVES, PUMPS AND PIPING.
 2. SECONDARY TREATMENT:
 - A. TWO AERATION BASINS, EACH 80'-0" W. X 200'-0" L. X 15'-0" D., WITH ASSOCIATED AERATION SYSTEM, MIXERS, PUMPS AND PIPING.
 - B. FIVE SECONDARY CLARIFIERS, EACH 20'-0" W. X 150'-0" L. X 14'-0" D., WITH ASSOCIATED COLLECTORS, DRIVES, PUMPS AND PIPING.
 3. SECONDARY EFFLUENT STORAGE POND, 180'-0" W. X 180'-0" L. X 15'-0" D.



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

IV. ADVANCED WASTE TREATMENT (AWT):

1. TWO DENITRIFICATION TOWERS, THREE CELLS EACH, EACH CELL 12'-0" W. X 21'-0" L. X 14'-0" D., WITH ASSOCIATED PUMPS.
2. FLOW DIVERSION STRUCTURE, 6'-0" W. X 13'-0" L. X 17'-0" H.
3. TWO BACKWASH BASINS, EACH 101'-0" W. X 111'-0" L. X 18'-0" D.
4. TWO FLOCCULATION BASINS, EACH 30'-0" W. X 45'-0" L. X 10'-0" D. WITH ASSOCIATED PUMPS.
5. TWO TERTIARY CLARIFIERS, EACH 86'-0" DIA. X 15'-0" D., WITH TWO COLLECTOR DRIVES, AND ONE SCUM PUMP.
6. THREE STORAGE TANKS, ALUM, EACH 12'-0" DIA. X 10'-0" H.
7. FOUR STORAGE TANKS, CAUSTIC SODA, 7'-0" DIA. X 10'-0" H.

V. TERTIARY TREATMENT:

1. SIX ADVANCED WATER TREATMENT (AWT) SLUDGE DEWATERING PONDS/DRYING BEDS, EACH 90'-0" W. X 90'-0" L. X 3'-6" D.
2. THREE RETURN WATER PUMPS, EACH 15 H.P.
3. EIGHT DUAL MEDIA GRAVITY FILTERS, EACH 15'-0" W. X 23'-0" L. X 13'-0" D., AND ASSOCIATED BLOWERS, PUMPS AND PIPING.
4. FOUR CLOTH FILTERS, EACH WITH A RATED PEAK FLOW OF 4.16 MGD.
5. FOUR CHLORINE CONTACT CHAMBERS, EACH 6'-9" W. X 554'-0" L. X 15'-0" D., WITH CHLORINE SOLUTION DIFFUSER ASSEMBLY, AND THREE STANDBY WASHWATER PUMPS.
6. TERTIARY EFFLUENT STORAGE POND, 180'-0" W. X 180'-0" L. X 15'-0" D., WITH THREE ELECTRICAL EFFLUENT PUMPS.
7. EMERGENCY EFFLUENT STORAGE POND, 480'-0" W. X 500'-0" L. X 7'-0" D.
8. EMERGENCY EFFLUENT STORAGE POND, 350'-0" W. X 420'-0" L. X 8'-0" D.
9. EMERGENCY EFFLUENT STORAGE POND, 210'-0" W. X 310'-0" L. X 8'-0" D.
10. TWO 17-TON BULK CHLORINE STORAGE TANKS WITH ASSOCIATED EVAPORATORS, CHLORINATORS, INJECTORS, CHLORINE SCRUBBER SYSTEM AND PIPING.

VI. SOLIDS HANDLING:

1. ONE DISSOLVED AIR FLOATATION (DAF) TANK, 30'-0" DIA. X 22'-0" H., WITH ASSOCIATED PUMPS.
2. ONE GRAVITY BELT THICKENER, 6'-0" W. BELT AND ASSOCIATED POLYMER SYSTEM, PUMPS AND PIPING.
3. ONE ROTARY DRUM THICKENER.
4. FOUR ANAEROBIC DIGESTERS, EACH 56'-0" DIA. X 22'-0" H., WITH ASSOCIATED HEAT EXCHANGERS, PUMPS AND PIPING.
5. BOILER, WALKER, HEAT-X, 1 MM BTU/HR, NATURAL GAS FIRED, WITH ASSOCIATED PUMP AND BLOWER.
6. DIGESTED SLUDGE HOLDING TANK, UNDER GROUND, 40'-0" DIA. X 20'-0" H., WITH ASSOCIATED MIXER AND PUMPS.
7. DIGESTED SLUDGE HOLDING TANK, ABOVE GROUND, 45'-0" DIA. X 32'-0" H., WITH ASSOCIATED MIXER AND PUMPS.
8. CENTRIFUGE, 300 GPM CAPACITY.
9. TWO BELT FILTER PRESSES, ASHBROOK-SIMON-HARTLEY, 6'-0" WIDE, WITH ASSOCIATED CONVEYORS.



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

10. SLUDGE OFF-LOADING STATION, WITH A 27 CUBIC FOOT HOPPER.
11. LOW PRESSURE GAS HOLDER TANK, DIGESTER GAS, 24'-0" DIA. X 24'-0" H., WITH ASSOCIATED HERMETIC GAS BOOSTERS.
12. GAS STORAGE SPHERE, DIGESTER GAS, 35'- 0" DIA., WITH A GAS COMPRESSOR.

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. THE HEADWORKS, VORTEX GRIT BASIN, PRIMARY CLARIFIERS, SLUDGE TRANSFER STORAGE, AND SLUDGE SYSTEMS WITHIN THE SLUDGE DEWATERING BUILDING, SHALL NOT BE OPERATED UNLESS THEY ARE VENTED TO AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL OPERATION AND WHICH HAS BEEN ISSUED A PERMIT TO CONSTRUCT OR OPERATE BY THE SCAQMD.
[RULE 1303]
5. THE DIGESTER GAS PRODUCED AT THIS FACILITY SHALL BE STORED IN THE GAS STORAGE SPHERE OR INCINERATED BY EQUIPMENT THAT HAS A VALID PERMIT, OR IS EXEMPTED BY RULE 219.
[RULE 1303]
6. THE MAXIMUM QUANTITY OF WASTEWATER TREATED BY THIS EQUIPMENT, ON AN ANNUAL BASIS, SHALL NOT EXCEED 18 MILLION GALLONS PER DAY (MGD), EXCEPT DURING WET WEATHER CONDITIONS.
[RULE 1303]
7. UNTIL SLUDGE IS DEWATERED IT SHALL BE PIPED AND STORED IN AN ENCLOSED MANNER TO PREVENT THE RELEASE OF AIR CONTAMINANTS.
[RULE 402]
8. THE BELT FILTER PRESSES SHALL BE OPERATED ONLY AS BACKUP TO THE CENTRIFUGE.
[RULE 1303]
9. DEWATERED SLUDGE SHALL BE STORED IN THE STORAGE HOPPER PRIOR TO TRUCK LOADING.
[RULE 402]



**FACILITY PERMIT TO OPERATE
EASTERN MUNICIPAL WATER DISTRICT**

10. RECORDS SHALL BE KEPT TO SHOW COMPLIANCE WITH THE ABOVE CONDITIONS FOR A PERIOD OF AT LEAST FIVE YEARS AND SHALL BE MADE AVAILABLE TO SCAQMD PERSONNEL UPON REQUEST.
[RULE 204]



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

PERMIT TO OPERATE

Permit No. F81225
A/N 451352

Equipment Description:

AIR POLLUTION CONTROL SYSTEM CONSISTING OF:

1. SCRUBBER, ODOR CONTROL, HARRINGTON INDUSTRIAL PLASTICS, MODEL ECG 67-5, 7'-0" L. X 6'-0" W. X 14'-0"H., PACKED, WITH A RECIRCULATION PUMP.
2. EXHAUST SYSTEM WITH A 20 H.P. BLOWER VENTING THE SLUDGE DEWATERING BUILDING.

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 MAY BE SHUTDOWN FOR A PERIOD NOT EXCEEDING 72 HOURS FOR MAINTENANCE AND NOT EXCEEDING 60 MINUTES DURING ELECTRICAL POWER SOURCE CHANGEOVER DUE TO HIGH POWER DEMAND. SHUTDOWNS DUE TO ELECTRICAL POWER SOURCE CHANGEOVERS SHALL NOT OCCUR MORE THAN ONCE DURING ANY CALENDAR MONTH. EACH SHUTDOWN MUST BE RECORDED WITH DATE, TIME, DURATION AND PURPOSE OF THE SHUTDOWN.
[RULE 402]
4. HYDROGEN SULFIDE FROM THE OUTLET OF THIS AIR POLLUTION CONTROL SYSTEM SHALL NOT EXCEED 1.0 PARTS PER MILLION.
[RULE 402]
5. COMPLIANCE WITH CONDITION NO. 4 SHALL BE DETERMINED WEEKLY USING DRAEGER TEST TUBES OR ANOTHER TEST METHOD APPROVED BY THE SCAQMD.
[RULE 402]
6. A FLOWMETER INDICATING GALLONS PER MINUTE (GPM) SHALL BE INSTALLED IN THE SCRUBBER SOLUTION RECIRCULATION LINE. NOT LESS THAN 150 GALLONS PER MINUTE OF SOLUTION SHALL BE RECIRCULATED THROUGH THE SCRUBBER WHEN THE SCRUBBER IS IN OPERATION.
[RULE 402]



**FACILITY PERMIT TO OPERATE
EASTERN MUNICIPAL WATER DISTRICT**

7. A PH METER SHALL BE INSTALLED TO MONITOR THE SCRUBBER SOLUTION. THE PH OF THE SCRUBBER SOLUTION SHALL NOT BE LESS THAN 9.0 WHEN THE BELT PRESS IS IN OPERATION. [RULE 402]

8. THE OPERATOR SHALL MAINTAIN RECORDS TO SHOW COMPLIANCE WITH THESE CONDITIONS. ALL RECORDS SHALL BE KEPT FOR AT LEAST TWO YEARS AND MADE AVAILABLE TO SCAQMD PERSONNEL UPON REQUEST.



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

PERMIT TO OPERATE

Permit No. G5388
A/N 466456

Equipment Description:

STORAGE TANK, LIQUEFIED PROPANE GAS, 7'-0" D. X 25' L., PRESSURIZED, 6,565 GALLONS (27,400 POUNDS) CAPACITY, WITH PRESSURE RELIEF VALVE.

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 USED ONLY TO STORE LIQUEFIED PROPANE GAS.
[RULE 204]
4. THE OPERATOR SHALL FILL THE TANK ONLY WITH A CLOSED SYSTEM WHICH DOES NOT VENT VAPORIZED GAS INTO THE ATMOSPHERE.
[RULE 204]
5. THE OPERATOR SHALL INSTALL AND MAINTAIN PRESSURE RELIEF VALVE WHICH IS SET AT A MINIMUM PRESSURE OF 250 PSIG.
[RULE 204]
6. THE OPERATOR SHALL FILL THE TANK AT A FLOW RATE AND TEMPERATURE WHICH DOES NOT CAUSE THE PRESSURE INSIDE THE STORAGE TANK TO EXCEED 250 PSIG.
[RULE 204]
7. THE OPERATOR SHALL INSTALL AND MAINTAIN A PRESSURE GAGE TO MONITOR THE PRESSURE INSIDE THE STORAGE TANK
[RULE 204]
8. ONCE PER MONTH AND AFTER EACH TANK FILLING OPERATION, THE OPERATOR SHALL MEASURE AND RECORD THE TEMPERATURE AND PRESSURE OF THE STORAGE TANK.
[RULE 204]
9. THE OPERATOR SHALL NOT FILL THIS STORAGE TANK MORE THAN ONCE PER CALENDAR MONTH.
[RULE 1304 - OFFSET]



**FACILITY PERMIT TO OPERATE
EASTERN MUNICIPAL WATER DISTRICT**

10. RECORDS SHALL BE MAINTAINED AND RETAINED FOR A PERIOD NOT LESS THAN FIVE YEARS, AND INCLUDE THE TEMPERATURE AND PRESSURE INSIDE THE STORAGE TANK, QUANTITY OF THE MOST RECENT FILLING OF THE STORAGE TANK, AND THE DATE OF THE DELIVERY OF THE LPG.
[RULE 204]

Emissions and Requirements:

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

VOC: RULE 442



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

PERMIT TO OPERATE

Permit No. R-G11845
A/N 485846

Equipment Description:

INTERNAL COMBUSTION ENGINE, CATERPILLAR, MODEL NO. G-399 SI-TA-HCR, NATURAL GAS FIRED, TURBOCHARGED, AFTERCOOLED, RICH BURN, 16 CYLINDER, 930 BHP, WITH A JOHNSON MATTHEY NON-SELECTIVE CATALYTIC REACTOR OR EQUIVALENT, AND AN AIR TO FUEL RATIO CONTROLLER, ALTRONIC, MODEL EPC 100, DRIVING AN EMERGENCY ELECTRIC GENERATOR.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITIONS AT ALL TIMES.
[RULE 204]
3. THIS EQUIPMENT SHALL BE FIRED ON NATURAL GAS ONLY.
[RULE 1303(a)(1)-BACT]
4. THIS EQUIPMENT SHALL BE OPERATED IN COMPLIANCE WITH ALL APPLICABLE PROVISIONS OF RULE 1110.2, RULE 431.1, AND 40 CFR 63 SUBPART ZZZZ.
[RULE 1110.2, RULE 431.1, 40CFR63 SUBPART ZZZZ]
5. A FUEL METER SHALL BE INSTALLED AND MAINTAINED IN THE FUEL SUPPLY LINE TO THE ENGINE TO INDICATE THE FUEL USAGE IN CUBIC FEET, FOR EACH TYPE OF FUEL USED, AND FUEL USAGE SHALL BE RECORDED.
[RULE 204, RULE 1303]
6. THIS ENGINE SHALL NOT BE OPERATED WITHOUT THE USE OF AN AUTOMATIC AIR TO FUEL RATIO CONTROLLER WHICH SHALL BE MAINTAINED AND KEPT IN PROPER OPERATING CONDITIONS AT ALL TIMES AS SPECIFIED BY THE MANUFACTURER.
[RULE 1303(a)(1)-BACT]
7. THE CATALYTIC CONVERTER TEMPERATURE AND OXYGEN CONCENTRATION AT THE OUTLET OF THIS ENGINE SHALL BE MAINTAINED WITHIN THE EFFECTIVE OPERATING RANGE OF THE CATALYTIC CONVERTER AS SPECIFIED BY THE MANUFACTURER WHEN THIS ENGINE IS IN OPERATION, EXCEPT DURING MAINTENANCE AND TESTING AND START-UP NOT TO EXCEED 30 MINUTES.
[RULE 1303(a)(1)-BACT]



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

8. THIS ENGINE SHALL BE EQUIPPED WITH AN OPERATIONAL NON-RESETTABLE TOTALIZING TIME METER TO DETERMINE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1110.2, RULE 1303(a)(1)-BACT]
9. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN ANY ONE CALENDAR YEAR.
[RULE 1110.2, RULE 1303]
10. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 100 HOURS IN ANY ONE CALENDAR YEAR FOR MAINTENANCE AND TESTING PURPOSES, WHICH INCLUDES 50 HOURS PER YEAR FOR OPERATION THAT DOES NOT INCLUDE PEAK SHAVING OR OPERATION TO GENERATE INCOME FOR THE FACILITY EXCEPT UNDER A DEMAND RESPONSE PROGRAM (DRP).
[40CFR63 Subpart ZZZZ]
11. THIS ENGINE SHALL NOT BE OPERATED FOR MORE THAN 30 MINUTES PRIOR TO THE TIME WHEN THE EMERGENCY CONDITION IS EXPECTED TO OCCUR UNDER A DEMAND RESPONSE PROGRAM/INTERRUPTIBLE ELECTRIC SERVICE PROGRAM, AND THE ENGINE OPERATION MUST BE TERMINATED IMMEDIATELY AFTER THE FACILITY IS NOTIFIED THAT THE EMERGENCY CONDITION IS NOT LONGER IMMINENT.
[40CFR63 Subpart ZZZZ]
12. IF THIS ENGINE OPERATES FOR MORE THAN 15 HOURS IN ANY ONE CALENDAR YEAR UNDER A DEMAND RESPONSE PROGRAM/INTERRUPTIBLE ELECTRIC SERVICE PROGRAM, THEN THE ENGINE SHALL BE CONSIDERED A NON-EMERGENCY ENGINE PURSUANT TO 40 CFR 63 SUBPART ZZZZ AND SHALL BE IN COMPLIANCE WITH ALL REQUIREMENTS FOR A NON-EMERGENCY ENGINE PURSUANT TO 40 CFR 63 SUBPART ZZZZ.
[40CFR63 Subpart ZZZZ]
13. AN ENGINE OPERATING LOG SHALL BE MAINTAINED WHICH ON A MONTHLY BASIS SHALL LIST ALL ENGINE OPERATIONS IN EACH OF THE FOLLOWING AREAS:
 - A. EMERGENCY USE HOURS OF OPERATION.
 - B. MAINTENANCE AND TESTING HOURS.
 - C. OTHER OPERATING HOURS (DESCRIBE THE REASON FOR OPERATION).
 - D. FUEL CONSUMPTION OF EACH FUEL TYPE.[RULE 204, RULE 1303]

Emissions and Requirements:

14. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
 - PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
 - NOX: 0.15 GM/BHP-HR, RULE 1303
 - VOC: 0.15 GM/BHP-HR, RULE 1303
 - CO: 0.60 GM/BHP-HR, RULE 1303

THIS PERMIT TO OPERATE R-G11845 SUPERSEDES PERMIT TO OPERATE G11845 ISSUED ON FEBRUARY 11, 2011.



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

PERMIT TO OPERATE

Permit No. R-G11844
A/N 485847

Equipment Description

INTERNAL COMBUSTION ENGINE, CATERPILLAR, MODEL NO. G-399TA, NATURAL GAS FIRED, TURBOCHARGED, AFTERCOOLED, RICH BURN, 16 CYLINDER, 930 BHP, WITH A JOHNSON MATTHEY DE-NOX "HATCHBACK" CATALYTIC CONVERTER, AND AN AIR/FUEL RATIO CONTROLLER, DRIVING AN EMERGENCY ELECTRICAL GENERATOR.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITIONS AT ALL TIMES.
[RULE 204]
3. THIS EQUIPMENT SHALL BE FIRED ON NATURAL GAS ONLY.
[RULE 1303(a)(1)-BACT]
4. THIS EQUIPMENT SHALL BE OPERATED IN COMPLIANCE WITH ALL APPLICABLE PROVISIONS OF RULE 1110.2, RULE 431.1, AND 40 CFR 63 SUBPART ZZZZ.
[RULE 1110.2, RULE 431.1, 40CFR63 SUBPART ZZZZ]
5. A FUEL METER SHALL BE INSTALLED AND MAINTAINED IN THE FUEL SUPPLY LINE TO THE ENGINE TO INDICATE THE FUEL USAGE IN CUBIC FEET, FOR EACH TYPE OF FUEL USED, AND FUEL USAGE SHALL BE RECORDED.
[RULE 204, RULE 1303]
6. THIS ENGINE SHALL NOT BE OPERATED WITHOUT THE USE OF AN AUTOMATIC AIR TO FUEL RATIO CONTROLLER WHICH SHALL BE MAINTAINED AND KEPT IN PROPER OPERATING CONDITIONS AT ALL TIMES AS SPECIFIED BY THE MANUFACTURER.
[RULE 1303(a)(1)-BACT]
7. THE CATALYTIC CONVERTER TEMPERATURE AND OXYGEN CONCENTRATION AT THE OUTLET OF THIS ENGINE SHALL BE MAINTAINED WITHIN THE EFFECTIVE OPERATING RANGE OF THE CATALYTIC CONVERTER AS SPECIFIED BY THE MANUFACTURER WHEN THIS ENGINE IS IN OPERATION, EXCEPT DURING MAINTENANCE AND TESTING AND START-UP NOT TO EXCEED 30 MINUTES.
[RULE 1303(a)(1)-BACT]



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

8. THIS ENGINE SHALL BE EQUIPPED WITH AN OPERATIONAL NON-RESETTABLE TOTALIZING TIME METER TO DETERMINE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1110.2, RULE 1303(a)(1)-BACT]
9. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN ANY ONE CALENDAR YEAR.
[RULE 1110.2, RULE 1303]
10. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 100 HOURS IN ANY ONE CALENDAR YEAR FOR MAINTENANCE AND TESTING PURPOSES, WHICH INCLUDES 50 HOURS PER YEAR FOR OPERATION THAT DOES NOT INCLUDE PEAK SHAVING OR OPERATION TO GENERATE INCOME FOR THE FACILITY EXCEPT UNDER A DEMAND RESPONSE PROGRAM (DRP).
[40CFR63 Subpart ZZZZ]
11. THIS ENGINE SHALL NOT BE OPERATED FOR MORE THAN 30 MINUTES PRIOR TO THE TIME WHEN THE EMERGENCY CONDITION IS EXPECTED TO OCCUR UNDER A DEMAND RESPONSE PROGRAM/INTERRUPTIBLE ELECTRIC SERVICE PROGRAM, AND THE ENGINE OPERATION MUST BE TERMINATED IMMEDIATELY AFTER THE FACILITY IS NOTIFIED THAT THE EMERGENCY CONDITION IS NOT LONGER IMMINENT.
[40CFR63 Subpart ZZZZ]
12. IF THIS ENGINE OPERATES FOR MORE THAN 15 HOURS IN ANY ONE CALENDAR YEAR UNDER A DEMAND RESPONSE PROGRAM/INTERRUPTIBLE ELECTRIC SERVICE PROGRAM, THEN THE ENGINE SHALL BE CONSIDERED A NON-EMERGENCY ENGINE PURSUANT TO 40 CFR 63 SUBPART ZZZZ AND SHALL BE IN COMPLIANCE WITH ALL REQUIREMENTS FOR A NON-EMERGENCY ENGINE PURSUANT TO 40 CFR 63 SUBPART ZZZZ.
[40CFR63 Subpart ZZZZ]
13. AN ENGINE OPERATING LOG SHALL BE MAINTAINED WHICH ON A MONTHLY BASIS SHALL LIST ALL ENGINE OPERATIONS IN EACH OF THE FOLLOWING AREAS:
 - A. EMERGENCY USE HOURS OF OPERATION.
 - B. MAINTENANCE AND TESTING HOURS.
 - C. OTHER OPERATING HOURS (DESCRIBE THE REASON FOR OPERATION).
 - D. FUEL CONSUMPTION OF EACH FUEL TYPE.[RULE 204, RULE 1303]

Emissions and Requirements:

14. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
 - PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
 - NOX: 0.15 GM/BHP-HR, RULE 1303
 - VOC: 0.15 GM/BHP-HR, RULE 1303
 - CO: 0.60 GM/BHP-HR, RULE 1303

THIS PERMIT TO OPERATE R-G11844 SUPERSEDES PERMIT TO OPERATE G11844 ISSUED ON FEBRUARY 11, 2011.



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

PERMIT TO OPERATE

Permit No. G11846
A/N 486643

Equipment Description:

INTERNAL COMBUSTION ENGINE, CATERPILLAR, MODEL NO. G3512 SITA SCAC, TURBOCHARGED, AFTERCOOLED, 814 BHP, RICH-BURN, NATURAL GAS FIRED, WITH A DCL CATALYST, MODEL NO. DLC 2-DC74-10, AND AN AIR/FUEL RATIO CONTROLLER, ALTRONIC EPC-100E, DRIVING A WATER PUMP.

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 ENGINE SHALL NOT BE OPERATED UNLESS ITS EXHAUST IS VENTED TO AN AIR POLLUTION CONTROL DEVICE, WHICH IS IN FULL OPERATION AND WHICH IS IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
4. THIS ENGINE SHALL ONLY BE FIRED ON NATURAL GAS.
[RULE 204, RULE 1110.2]
5. THIS EQUIPMENT SHALL BE OPERATED IN COMPLIANCE WITH ALL APPLICABLE PROVISIONS OF RULE 1110.2, RULE 431.1, AND 40 CFR 63 SUBPART ZZZZ.
[RULE 1110.2, RULE 431.1, 40CFR63 SUBPART ZZZZ]
6. THE IGNITION TIMING OF THIS ENGINE SHALL BE INSPECTED, ADJUSTED AND CERTIFIED AT A MINIMUM ONCE EVERY THREE YEARS OF OPERATION. INSPECTIONS, ADJUSTMENTS AND CERTIFICATIONS SHALL BE PERFORMED BY A QUALIFIED MECHANIC AND ACCORDING TO THE ENGINE MANUFACTURER'S PROCEDURES.
[RULE 204]
7. THE CATALYST IN THE CONVERTER SHALL BE MAINTAINED IN GOOD WORKING CONDITION. THE OPERATOR SHALL MAINTAIN RECORDS OF CATALYST CLEANING PERIODS AND REPLACEMENT FREQUENCY.
[RULE 1303]



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

8. A DIFFERENTIAL PRESSURE MEASURING DEVICE SHALL BE INSTALLED TO MEASURE THE PRESSURE DROP ACROSS THE CATALYST. IF THE PRESSURE DROP EXCEEDS 2 INCHES OF WATER COLUMN (W.C.), AS COMPARED TO THE PRESSURE MEASURED AFTER THE MOST RECENT CLEANING, THE CATALYST SHALL BE CLEANED ACCORDING TO THE PROCEDURE RECOMMENDED BY THE MANUFACTURER. THE TOTAL PRESSURE DROP SHALL NOT EXCEED 7 INCHES W.C.
[RULE 204, RULE 1110.2, RULE 1303]
9. A HIGH TEMPERATURE SHUT-DOWN MECHANISM SHALL BE INSTALLED AT THE OUTLET PORT OF THE CONVERTER AND SET TO 1350 DEGREES FAHRENHEIT OR LESS.
[RULE 1303]
10. WHENEVER THE ENGINE IS OPERATING, THE TEMPERATURE AT THE INLET OF THE CATALYTIC OXIDIZER SHALL BE 750 DEGREES FAHRENHEIT OR HIGHER, EXCEPT DURING START-UP OR SHUT-DOWN OPERATION WHICH DOES NOT EXCEED 30 MINUTES PER EVENT.
[RULE 1303]
11. THE OPERATOR SHALL MAINTAIN AND IMPLEMENT AN INSPECTION AND MONITORING (I&M) PLAN, BASED ON EQUIPMENT AS DESCRIBED IN THIS PERMIT IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF RULE 1110.2(f)(1)(D).
[RULE 1110.2]
12. THE OPERATOR SHALL INSTALL AND MAINTAIN A NON-RESETTABLE TOTALIZING FUEL METER TO ACCURATELY INDICATE THE FUEL USAGE IN THE FUEL SUPPLY LINE TO THE ENGINE.
[RULE 1110.2]
13. A TIMER SHALL BE MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1110.2]
14. AN ENGINE OPERATING LOG SHALL BE MAINTAINED WHICH ON A MONTHLY BASIS SHALL LIST ALL ENGINE OPERATIONS IN EACH OF THE FOLLOWING AREAS:
 - A. TOTAL HOURS OF OPERATION.
 - B. THE NUMBER OF HOURS THE ENGINE IS OPERATED ON SPECIFIC FUEL OR FUEL BLENDS USED AND THE FUEL USED.
 - C. FUEL CONSUMPTION OF EACH FUEL TYPE.
 - D. CUMULATIVE HOURS OF OPERATION SINCE THE LAST SOURCE TEST.[RULE 204, RULE 1110.2]
15. THE ENGINE SHALL OPERATE BETWEEN 1044 AND 1276 RPM, EXCEPT DURING START-UP OR SHUT-DOWN OPERATION WHICH DOES NOT EXCEED 30 MINUTES, PER EVENT.
[RULE 1110.2]



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

16. TESTING SHALL BE CONDUCTED AT THE OUTLET OF THE ENGINE AT LEAST ONCE EVERY TWO YEARS, OR EVERY 8,760 OPERATING HOURS, WHICHEVER OCCURS FIRST. THE SOURCE TEST FREQUENCY MAY BE REDUCED TO ONCE EVERY THREE YEARS IF THE ENGINE HAS OPERATED LESS THAN 2,000 HOURS SINCE THE LAST SOURCE TEST. IF THE ENGINE HAS NOT BEEN OPERATED WITHIN THREE MONTHS OF THE DATE A SOURCE TEST IS REQUIRED, THE SOURCE TEST SHALL BE CONDUCTED WHEN THE ENGINE RESUMES OPERATION FOR A PERIOD LONGER THAN EITHER SEVEN CONSECUTIVE DAYS OR 15 CUMULATIVE DAYS OF OPERATION. THE RESULTS OF THESE TESTS SHALL BE FURNISHED TO THE SCAQMD IN WRITING WITHIN 60 DAYS AFTER THE TESTS ARE CONDUCTED. WRITTEN NOTICE OF THE PERFORMANCE TESTS SCHEDULE SHALL BE PROVIDED TO THE SCAQMD 7 DAYS PRIOR TO THE TESTS SO THAT AN OBSERVER MAY BE PRESENT. THE TESTING SHALL INCLUDE, BUT NOT BE LIMITED TO:

- A. TOTAL NON-METHANE ORGANICS
- B. OXIDES OF NITROGEN
- C. CARBON MONOXIDE
- D. CARBON DIOXIDE
- E. OXYGEN
- F. NITROGEN
- G. MOISTURE CONTENT
- H. TEMPERATURE
- I. FLOW RATE

THE FINAL REPORT SHALL INCLUDE FUEL CONSUMPTION AND THE ENGINE LOAD DURING THE TESTS.

[RULE 1110.2, RULE 1303]

17. THE OPERATOR SHALL COMPLY WITH THE REPORTING REQUIREMENTS OF RULE 1110.2(f)(1)(H)(i) THROUGH (iii) – AMENDED 7/9/2010, PERTAINING TO ANY EQUIPMENT BREAKDOWN THAT RESULTS IN EMISSIONS IN EXCESS OF RULE OR PERMIT EMISSION LIMITS.
[RULE 1110.2]

Periodic Monitoring:

18. THIS ENGINE SHALL NOT BE OPERATED WITHOUT THE USE OF AN AUTOMATIC AIR TO FUEL RATIO CONTROLLER WHICH SHALL BE MAINTAINED AND KEPT IN PROPER OPERATING CONDITIONS AT ALL TIMES AS SPECIFIED BY THE MANUFACTURER.
[RULE 1110.2, RULE 1303, RULE 3004(a)(4)]
19. A TEMPERATURE MEASUREMENT AND RECORDING DEVICE SHALL BE INSTALLED AND MAINTAINED AT THE INLET AND OUTLET OF THE CATALYST.
[RULE 1303, RULE 3004(a)(4)]
20. THE OPERATOR SHALL USE THIS EQUIPMENT IN SUCH A MANNER THAT THE OXYGEN CONCENTRATION BEING MONITORED, AS INDICATED BELOW, DOES NOT EXCEED 0.5%. TO COMPLY WITH THIS CONDITION, THE OPERATOR SHALL INSTALL AND MAINTAIN A SENSOR TO ACCURATELY INDICATE THE OXYGEN CONCENTRATION OF THE EXHAUST GAS ENTERING THE CATALYST. THE OPERATOR SHALL ALSO INSTALL AND MAINTAIN A DEVICE TO CONTINUOUSLY RECORD THE PARAMETER BEING MEASURED. PARAMETRIC OPERATING DATA MAY BE USED IN LIEU OF DIRECT OXYGEN MEASUREMENTS.
[RULE 1303, RULE 3004(a)(4)]



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

21. OPERATING RECORDS FOR THE EQUIPMENT, WHICH SHALL INCLUDE ALL DATA, LOGS, TEST REPORTS, DATES OF OPERATION, TOTAL HOURS OF OPERATION, AND FUEL CONSUMPTION FOR EACH TYPE OF FUEL SHALL BE MAINTAINED AND KEPT FOR AT LEAST FIVE YEARS AND MADE AVAILABLE TO SCAQMD PERSONNEL UPON REQUEST.
[RULE 1110.2, RULE 3004(a)(4)]

Emissions and Requirements:

22. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
- PM10 RULE 404, SEE APPENDIX B FOR EMISSIONS LIMITS
 - NOX: 11 PPMV, RULE 1110.2
 - NOX: 11 PPMV, RULE 1303@ 15% O2 DRY, ONE HOUR AVERAGE @ 29% EFFICIENCY
 - VOC: 30 PPMV, RULE 1110.2
 - VOC: 37 PPMV, RULE 1303@ 15% O2 DRY, ONE HOUR AVERAGE @ 29% EFFICIENCY
 - CO: 250 PPMV, RULE 1110.2
 - CO: 86 PPMV, RULE 1303@ 15% O2 DRY, ONE HOUR AVERAGE @ 29% EFFICIENCY



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

PERMIT TO OPERATE

Permit No. R-G5389
A/N 486644

Equipment Description:

INTERNAL COMBUSTION ENGINE, CATERPILLAR, MODEL NO.G3512, TURBOCHARGED, AFTERCOOLED, 815 BHP, RICH-BURN, NATURAL GAS FIRED, WITH A MIRATECH CATALYST, MODEL NO. IQS2-22-10-C2, AND ALTRONIC AIR-TO-FUEL RATIO CONTROLLER, MODEL EPC-100E, DRIVING A WATER PUMP.

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. THE IGNITION TIMING OF THIS ENGINE SHALL BE INSPECTED, ADJUSTED AND CERTIFIED AT A MINIMUM ONCE EVERY THREE YEARS OF OPERATION. INSPECTIONS, ADJUSTMENTS AND CERTIFICATIONS SHALL BE PERFORMED BY A QUALIFIED MECHANIC AND ACCORDING TO THE ENGINE MANUFACTURER'S PROCEDURES.
[RULE 1303]
4. A TIMER SHALL BE MAINTAINED TO INDICATE THE ELAPSED OPERATING TIME.
[RULE 1303]
5. THE CATALYST IN THE CONVERTER SHALL BE MAINTAINED IN GOOD WORKING CONDITION. THE OPERATOR SHALL MAINTAIN RECORDS OF CATALYST CLEANING PERIODS AND REPLACEMENT FREQUENCY.
[RULE 1303]
6. A MANOMETER SHALL BE INSTALLED TO MEASURE THE PRESSURE DROP ACROSS THE CATALYST. THE PRESSURE DROP SHALL NOT EXCEED 10 INCHES OF WATER COLUMN (WC).
[RULE 204, RULE 1110.2, RULE 1303]
7. THE OPERATOR SHALL MAINTAIN AN AUTOMATIC AIR-TO-FUEL RATIO CONTROLLER SO AS TO REGULATE THE AIR-TO-FUEL RATIO WITHIN TOLERANCE LIMITS AS RECOMMENDED BY THE CATALYST SUPPLIER OR MANUFACTURER.
[RULE 1110.2]



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

8. TESTING SHALL BE CONDUCTED AT THE OUTLET OF THE ENGINE WITHIN 180 DAYS OF STARTUP. THE RESULTS OF THESE TESTS SHALL BE FURNISHED TO THE SCAQMD IN WRITING WITHIN 45 DAYS AFTER THE TESTS ARE CONDUCTED. WRITTEN NOTICE OF THE PERFORMANCE TESTS SCHEDULE SHALL BE PROVIDED TO THE SCAQMD 7 DAYS PRIOR TO THE TESTS SO THAT AN OBSERVER MAY BE PRESENT. THE TESTING SHALL INCLUDE, BUT NOT BE LIMITED TO:
- A. TOTAL NON-METHANE ORGANICS.
 - B. OXIDES OF NITROGEN.
 - C. CARBON MONOXIDE.
 - D. CARBON DIOXIDE.
 - E. OXYGEN.
 - F. NITROGEN.
 - G. MOISTURE CONTENT.
 - H. TEMPERATURE.
 - I. FLOW RATE.

THE FINAL REPORT SHALL INCLUDE FUEL CONSUMPTION AND THE ENGINE LOAD DURING THE TESTS.

[RULE 1110.2, RULE 1303]

9. A HIGH TEMPERATURE SHUT-DOWN MECHANISM SHALL BE INSTALLED AT THE OUTLET PORT OF THE CONVERTER AND SET TO 1200 DEGREES FAHRENHEIT OR LESS.
[RULE 1303]
10. A TEMPERATURE MEASUREMENT AND RECORDING DEVICE SHALL BE INSTALLED AND MAINTAINED AT THE INLET AND OUTLET OF THE CATALYST.
[RULE 1303]
11. WHENEVER THE ENGINE IS OPERATING, THE TEMPERATURE AT THE INLET OF THE CATALYTIC OXIDIZER SHALL BE 750 DEGREES FAHRENHEIT OF HIGHER.
[RULE 1303]
12. THE OPERATOR SHALL USE THIS EQUIPMENT IN SUCH A MANNER THAT THE OXYGEN CONCENTRATION BEING MONITORED, AS INDICATED BELOW, DOES NOT EXCEED 0.5% TO COMPLY WITH THIS CONDITION, THE OPERATOR SHALL INSTALL AND MAINTAIN A SENSOR TO ACCURATELY INDICATE THE OXYGEN CONCENTRATION OF THE EXHAUST GAS ENTERING THE CATALYST. THE OPERATOR SHALL ALSO INSTALL AND MAINTAIN A DEVICE TO CONTINUOUSLY RECORD THE PARAMETER BEING MEASURED.
[RULE 1303]
13. THE OPERATOR SHALL INSTALL AND MAINTAIN A NON-RESETTABLE FUEL METER TO ACCURATELY INDICATE THE FUEL USAGE IN THE FUEL SUPPLY LINE TO THE ENGINE.
[RULE 1110.2]
14. AN ENGINE OPERATING LOG LISTING THE DATE OF OPERATION, THE ELAPSED TIME IN HOURS, AND THE REASON FOR OPERATION SHALL BE KEPT AND MAINTAINED ON FILE FOR A MINIMUM OF TWO YEARS AND MADE AVAILABLE TO DISTRICT-PERSONNEL UPON REQUEST.
[RULE 1110.2]



**FACILITY PERMIT TO OPERATE
EASTERN MUNICIPAL WATER DISTRICT**

15. THE ENGINE SHALL OPERATE BETWEEN 1044 AND 1276 RPM, EXCEPT DURING START-UP OR SHUT-DOWN OPERATION WHICH DOES NOT EXCEED 30 MINUTES PER EVENT.
[RULE 1110.2]

THIS PERMIT TO OPERATE R-G5389 SUPERSEDES PERMIT TO OPERATE G5389 ISSUED ON DECEMBER 10, 2009.

Emissions and Requirements:

16. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
- PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
 - NOX: 9 PPMV, RULE 1303(b)(1)
 - NOX: 36 PPMV, RULE 1110.2
 - VOC: 26 PPMV, RULE 1303(b)(1)
 - VOC: 250 PPMV, RULE 1110.2
 - CO: 60 PPMV, RULE 1303(b)(1)
 - CO: 2000 PPMV, RULE 1110.2



**FACILITY PERMIT TO OPERATE
EASTERN MUNICIPAL WATER DISTRICT**

PERMIT TO OPERATE

**Permit No. G11842
A/N 504699**

Equipment Description:

SLUDGE DEWATERING SYSTEM, PROCESSING SLUDGE FROM 18MGD CAPACITY SEWAGE TREATMENT PLANT CONSISTING OF:

1. CENTRIFUGE, CENTRISYS, MODEL CS26-4, 350 GPM.
2. TWO BELT FILTER PRESSES, ASHBROOK-SIMON-HARTELY, EACH 6'-0" WIDE, AND WITH ASSOCIATED CONVEYORS.
3. ASSOCIATED PIPING, PUMPS, AND MOTORS.

LOCATED IN THE SLUDGE DEWATERING BUILDING WHICH IS VENTED TO AIR POLLUTION CONTROL EQUIPMENT.

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 CONDITIONS AT ALL TIMES.
[RULE 204]
3. THIS EQUIPMENT SHALL BE OPERATED BY PERSONNEL PROPERLY TRAINED IN ITS OPERATION.
[RULE 204]
4. ALL SLUDGE SHALL BE PIPED AND STORED IN AN ENCLOSED MANNER TO PREVENT THE RELEASE OF AIR CONTAMINANTS UNTIL AFTER IT IS DEWATERED.
[RULE 402]
5. THE SLUDGE DEWATERING SYSTEM SHALL ONLY BE OPERATED IN THE SLUDGE DEWATERING BUILDING WHICH IS VENTED ONLY TO AN AIR-POLLUTION CONTROL (APC) DEVICE WHICH HAS BEEN ISSUED VALID PERMIT TO CONSTRUCT OR OPERATE.
[RULE 402]
6. ALL DEWATERED SLUDGE SHALL BE CONVEYED IN AN ENCLOSED CONVEYOR UNTIL DEPOSITED INTO THE TRANSPORT BIN. WHENEVER THE BIN IS BILLED AND WHEN DEWATERING IS NOT BEING PERFORMED, THE BIN SHALL BE COMPLETELY COVERED TO PREVENT THE RELEASE OF AIR CONTAMINANTS.
[RULE 402]



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

PERMIT TO OPERATE

Permit No. R-G11843
A/N 513647

Equipment Description:

INTERNAL COMBUSTION ENGINE, CATERPILLAR, MODEL NO. G398-TA-HCR, SERIAL NO. 73B02093, TWELVE CYLINDERS, TURBOCHARGED, AFTERCOOLED, 700 BHP, RICH-BURN, NATURAL GAS FIRED, WITH MIRATECH CATALYTIC CONVERTER, MODEL NO. SP-RCSS-2222X3-08-EC2, AND AN AIR/FUEL RATIO CONTROLLER, ALTRONIC, MODEL EPC 100, DRIVING A PUMP.

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. A TIMER SHALL BE MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1110.2]
4. THE IGNITION TIMING OF THIS ENGINE SHALL BE INSPECTED, ADJUSTED AND CERTIFIED AT A MINIMUM ONCE EVERY THREE YEARS OF OPERATION. INSPECTIONS, ADJUSTMENTS AND CERTIFICATIONS SHALL BE PERFORMED BY A QUALIFIED MECHANIC AND ACCORDING TO THE ENGINE MANUFACTURER'S PROCEDURES.
[RULE 1303]
5. AN ENGINE OPERATING LOG LISTING THE DATE OF OPERATION, THE NATURAL GAS USED IN CUBIC FEET PER DAY, SHALL BE KEPT AND MAINTAINED ON FILE FOR A MINIMUM OF TWO YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1303]
6. THE ENGINE SHALL OPERATE BETWEEN 1044 AND 1276 RPM, EXCEPT DURING START-UP OR SHUT-DOWN OPERATION WHICH DOES NOT EXCEED 30 MINUTES PER EVENT.
[RULE 1110.2]
7. THE OPERATOR SHALL MAINTAIN AND IMPLEMENT AN INSPECTION AND MONITORING (I&M) PLAN, BASED ON EQUIPMENT AS DESCRIBED IN THIS PERMIT IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF RULE 1110.2(f)(1)(D).
[RULE 1110.2]



**FACILITY PERMIT TO OPERATE
EASTERN MUNICIPAL WATER DISTRICT**

8. THIS ENGINE SHALL BE OPERATED IN COMPLIANCE WITH ALL PROVISIONS OF 40 CFR PART 63 SUBPART ZZZZ.
[40 CFR 63 SUBPART ZZZZ]

Emissions and Requirements:

9. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
- PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
 - NOX: 0.15 GM/BHP-HR, RULE 1303
 - NOX: 10 PPM @ 15% O₂, AVERAGED 15 MINUTE, RULE 1110.2
 - VOC: 0.15 GM/BHP-HR, RULE 1303
 - VOC: 28 PPM @ 15% O₂, AVERAGED 15 MINUTE, RULE 1110.2
 - CO: 0.6 GM/BHP-HR, RULE 1303
 - CO: 65 PPM @ 15% O₂, AVERAGED 15 MINUTE, RULE 1110.2

THIS PERMIT TO OPERATE R-G11843 SUPERSEDES PERMIT TO OPERATE G11843 ISSUED ON FEBRUARY 11, 2011.



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

PERMIT TO OPERATE

Permit No. G13883
A/N 518817

Equipment Description:

INTERNAL COMBUSTION ENGINE, CATERPILLAR, MODEL, NO. G379 SI-TA-HCR, NATURAL GAS FIRED, TURBOCHARGED, AFTERCOOLED, RICH BURN, 8 CYLINDER, 465 BHP, WITH A MIRATECH, MODEL SP-IQS-22X3-08-EC2, NON-SELECTIVE CATALYTIC CONVERTER, AND AIR TO FUEL RATIO CONTROLLER, ALTRONIC, MODEL EPC 100E, DRIVING AN AERATION BLOWER.

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 ENGINE SHALL NOT BE OPERATED UNLESS ITS EXHAUST IS VENTED TO AN AIR POLLUTION CONTROL DEVICE, WHICH IS IN FULL OPERATION AND WHICH IS IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
4. THE EQUIPMENT SHALL ONLY USE NATURAL GAS AS FUEL.
[RULE 204, RULE 1110.2]
5. THIS EQUIPMENT SHALL BE OPERATED IN COMPLIANCE WITH ALL APPLICABLE PROVISIONS OF RULE 1110.2, RULE 431.1, AND 40 CFR 63 SUBPART ZZZZ.
[RULE 1110.2, RULE 431.1, 40CFR63 SUBPART ZZZZ]
6. THE CATALYST IN THE CONVERTER SHALL BE MAINTAINED IN GOOD WORKING CONDITION. THE OPERATOR SHALL MAINTAIN RECORDS OF CATALYST CLEANING PERIODS AND REPLACEMENT FREQUENCY.
[RULE 204]
7. THE TEMPERATURE OF THE EXHAUST GAS ENTERING THE CATALYST SHALL BE MAINTAINED BETWEEN 600 DEGREES F AND 1250 DEGREES F., EXCEPT DURING START-UP OR SHUT-DOWN OPERATION WHICH DOES NOT EXCEED 30 MINUTES PER EVENT.
[RULE 204, RULE 1110.2]



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

8. THE TEMPERATURE OF THE EXHAUST GAS AT THE CATALYST OUTLET SHALL NOT EXCEED 1350 DEGREES F.
[RULE 204, RULE 1110.2]
9. THE OPERATOR SHALL MAINTAIN AND IMPLEMENT AN INSPECTION AND MONITORING (I&M) PLAN, BASED ON EQUIPMENT AS DESCRIBED IN THIS PERMIT IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF RULE 1110.2(f)(1)(D).
[RULE 1110.2]
10. AN ENGINE OPERATING LOG SHALL BE MAINTAINED WHICH ON A MONTHLY BASIS SHALL LIST ALL ENGINE OPERATIONS IN EACH OF THE FOLLOWING AREAS:
 - A. TOTAL HOURS OF OPERATION.
 - B. THE NUMBER OF HOURS THE ENGINE IS OPERATED ON SPECIFIC FUEL OR FUEL BLENDS USED AND THE FUEL USED.
 - C. FUEL CONSUMPTION OF EACH FUEL TYPE.
 - D. CUMULATIVE HOURS OF OPERATION SINCE THE LAST SOURCE TEST.[RULE 1110.2]
11. THE ENGINE SHALL OPERATE BETWEEN 1044 AND 1276 RPM, EXCEPT DURING START-UP OR SHUT-DOWN OPERATION WHICH DOES NOT EXCEED 30 MINUTES PER EVENT.
[RULE 1110.2]
12. THE OPERATOR SHALL COMPLY WITH THE REPORTING REQUIREMENTS OF RULE 1110.2(f)(1)(H)(i) THROUGH (iii) – AMENDED 7/9/2010, PERTAINING TO ANY EQUIPMENT BREAKDOWN THAT RESULTS IN EMISSIONS IN EXCESS OF RULE OR PERMIT EMISSION LIMITS.
[RULE 1110.2]
13. THE CONCENTRATION OF THE FOLLOWING COMPOUNDS MEASURED AT THE OUTLET OF THE AIR POLLUTION CONTROL SYSTEM OF THE ENGINE SHALL NOT EXCEED THE FOLLOWING EFFECTIVE JULY 1, 2011, EXCEPT DURING COLD START WHICH SHALL NOT EXCEED 30 MINUTES, UNLESS OTHERWISE APPROVED BY SCAQMD:

NOX: 11 PPMVD AT 15% O₂
VOC: 30 PPMVD AT 15% O₂
CO: 250 PPMVD AT 15% O₂
[RULE 1110.2]
14. OPERATING RECORDS FOR THE EQUIPMENT, WHICH SHALL INCLUDE ALL DATA, LOGS, TEST REPORTS, DATES OF OPERATION, TOTAL HOURS OF OPERATION, AND FUEL CONSUMPTION FOR EACH TYPE OF FUEL SHALL BE MAINTAINED AND KEPT FOR AT LEAST FIVE YEARS AND MADE AVAILABLE TO SCAQMD PERSONNEL UPON REQUEST.
[RULE 1110.2]



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

15. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE CO, NOX, AND VOC EMISSION LIMITS BY CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY 2 YEARS, OR EVERY 8,760 OPERATING HOURS, WHICHEVER OCCURS FIRST. THE SOURCE TEST FREQUENCY MAY BE REDUCED TO ONCE EVERY THREE YEARS IF THE ENGINE HAS OPERATED LESS THAN 2,000 HOURS SINCE THE LAST SOURCE TEST. THE TEST SHALL BE CONDUCTED USING THE TEST METHOD AS STATED IN RULE 1110.2. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1110.2 CONCENTRATION LIMITS. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.
[RULE 1110.2]
16. THIS ENGINE SHALL NOT BE OPERATED WITHOUT THE USE OF AN AUTOMATIC AIR TO FUEL RATIO CONTROLLER WHICH SHALL BE MAINTAINED AND KEPT IN PROPER OPERATING CONDITIONS AT ALL TIMES AS SPECIFIED BY THE MANUFACTURER.
[RULE 1110.2]
17. THE OPERATOR SHALL INSTALL AND MAINTAIN A NON-RESETTABLE TOTALIZING TIME METER TO DETERMINE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1110.2]

Periodic Monitoring:

18. THIS ENGINE SHALL BE EQUIPPED WITH AN OXYGEN SENSOR AT THE EXHAUST OF THE ENGINE. A RECORDING SYSTEM SHALL BE INSTALLED TO VERIFY COMPLIANCE WITH MANUFACTURER SPECIFICATIONS. PARAMETRIC OPERATING DATA MAY BE USED IN LIEU OF DIRECT OXYGEN MEASUREMENTS, BUT RECORDS OF HOW THE PARAMETRIC DATA RELATES TO OXYGEN CONTENT MUST BE RETAINED AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1110.2, RULE 3004(a)(4)]
19. THE OPERATOR SHALL INSTALL AND MAINTAIN A TEMPERATURE GAUGE AND RECORDING SYSTEM TO ACCURATELY INDICATE THE TEMPERATURE AT THE INLET OF THE CATALYST.
[RULE 204, RULE 1110.2, RULE 3004 (a)(4)]
20. THE OPERATOR SHALL INSTALL AND MAINTAIN A TEMPERATURE GAUGE AND RECORDING SYSTEM TO ACCURATELY INDICATE THE TEMPERATURE AT THE OUTLET OF THE CATALYST.
[RULE 204, RULE 1110.2, RULE 3004 (a)(4)]



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

Emissions and Requirements:

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

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
NOX: 0.15 GM/BHP-HR, RULE 1303
NOX: 45 PPMV, RULE 1110.2
VOC: 0.15 GM/BHP-HR, RULE 1303
VOC: 250 PPMV, RULE 1110.2
CO: 0.6 GM/BHP-HR, RULE 1303
CO: 2000 PPMV, RULE 1110.2



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

PERMIT TO CONSTRUCT/OPERATE

Permit No. G23189
A/N 526292

Equipment Description:

INTERNAL COMBUSTION ENGINE, NON-EMERGENCY, WAUKESHA, MODEL H24 GLD, SPARK IGNITION, FOUR CYCLE, 8-CYLINDER, 530 BHP, LEAN BURN, TURBOCHARGED, AFTERCOOLED, FUELED WITH DIGESTER GAS, A DIGESTER GAS/ NATURAL GAS BLEND, OR A NATURAL GAS/ AIR BLEND, WITH AN EXHAUST HEAT RECOVERY SYSTEM, AND AN AIR-TO-FUEL RATIO CONTROLLER, WAUKESHA, MODEL CEC, DRIVING AN AERATION BLOWER.

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 CONDITIONS AT ALL TIMES.
[RULE 204]
3. THIS EQUIPMENT SHALL BE FIRED ON DIGESTER GAS, A DIGESTER GAS/ NATURAL GAS BLEND, OR A NATURAL GAS/ AIR BLEND. THE NATURAL GAS/ AIR BLEND SHALL NOT EXCEED 650 BTU/SCF.
[RULE 1110.2, RULE 1303]
4. THIS EQUIPMENT SHALL BE OPERATED IN COMPLIANCE WITH ALL APPLICABLE PROVISIONS OF RULE 1110.2, RULE 431.1, AND 40 CFR 63 SUBPART ZZZZ.
[RULE 1110.2, RULE 431.1, 40CFR63 SUBPART ZZZZ]
5. A NON-RESETTABLE OPERATIONAL TOTALIZING TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE IN CUMULATIVE HOURS THE ENGINE IS OPERATED.
[RULE 1110.2]
6. A FUEL METER SHALL BE INSTALLED AND MAINTAINED IN THE FUEL SUPPLY LINE TO THE ENGINE TO INDICATE THE FUEL USAGE IN CUBIC FEET, FOR EACH TYPE OF FUEL USED, AND FUEL USAGE SHALL BE RECORDED.
[RULE 204, RULE 1110.2]
7. THE TWO DIGESTER GAS FIRED ENGINES MAY ONLY BE OPERATED AT THE SAME TIME IF THE AVAILABLE DIGESTER GAS IS GREATER THAN THE 100% OF THE TOTAL HEAT INPUT (HIGHER HEATING VALUE BASIS) FOR ONE ENGINE, UNLESS THE THIRD ENGINE USED TO DRIVE AN AERATION BLOWER IS TEMPORARILY OUT OF SERVICE FOR REPAIR, MAINTENANCE, OR TESTING.
[RULE 1110.2]



**FACILITY PERMIT TO OPERATE
EASTERN MUNICIPAL WATER DISTRICT**

8. THE DIGESTER GAS ENGINES SHALL BE OPERATED WITH AT LEAST 50% OF THE TOTAL HEAT INPUT SUPPLIED BY DIGESTER GAS (HIGHER HEATING VALUE BASIS) FOR THE FACILITY AVERAGE IN EACH CALENDAR MONTH EXCEPT WHEN THIS SEWAGE TREATMENT PLANT ACTIVATES AN EMERGENCY OPERATIONS CENTER OR INCIDENT COMMAND SYSTEM, AS PART OF AN EMERGENCY RESPONSE PLAN, BECAUSE OF EITHER HIGH INFLUENT FLOWS CAUSED BY PRECIPITATION OR A DISASTER.
[RULE 1110.2]
9. AN ENGINE OPERATING LOG SHALL BE MAINTAINED WHICH ON A MONTHLY BASIS SHALL LIST ALL ENGINE OPERATIONS IN EACH OF THE FOLLOWING AREAS:
 - A. TOTAL HOURS OF OPERATION.
 - B. THE NUMBER OF HOURS THE ENGINE IS OPERATED ON SPECIFIC FUEL OR FUEL BLENDS USED AND THE FUEL USED.
 - C. THE BTU RATING OF THE DIGESTER GAS.
 - D. FUEL CONSUMPTION OF EACH FUEL TYPE.
 - E. THE PERCENT DIGESTER GAS OF THE TOTAL FUEL BY VOLUME.
 - F. THE NUMBER OF HOURS THE ENGINE IS OPERATED CUMULATIVE HOURS OF OPERATION SINCE THE LAST SOURCE TEST.[RULE 204, RULE 1110.2]
10. THE ENGINE SHALL OPERATE BETWEEN 1539 AND 1881 RPM, EXCEPT DURING START-UP OR SHUT-DOWN OPERATION WHICH DOES NOT EXCEED 30 MINUTES PER EVENT.
[RULE 1110.2]
11. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE CO, NOX, AND VOC EMISSION LIMITS BY CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY 2 YEARS, OR EVERY 8,760 OPERATING HOURS, WHICHEVER OCCURS FIRST. THE SOURCE TEST FREQUENCY MAY BE REDUCED TO ONCE EVERY THREE YEARS IF THE ENGINE HAS OPERATED LESS THAN 2,000 HOURS SINCE THE LAST SOURCE TEST. THE TEST SHALL BE CONDUCTED USING THE TEST METHOD AS STATED IN RULE 1110.2. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1110.2 CONCENTRATION LIMITS. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.
[RULE 1110.2]
12. THIS ENGINE SHALL NOT BE OPERATED WITHOUT THE USE OF AN AUTOMATIC AIR TO FUEL RATIO CONTROLLER WHICH SHALL BE MAINTAINED AND KEPT IN PROPER OPERATING CONDITIONS AT ALL TIMES AS SPECIFIED BY THE MANUFACTURER.
[RULE 1110.2]
13. THE OPERATOR SHALL MAINTAIN AND IMPLEMENT AN INSPECTION AND MONITORING (I&M) PLAN BASED ON EQUIPMENT AS DESCRIBED IN THIS PERMIT IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF RULE 1110.2(f)(1)(D).
[RULE 1110.2]



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

14. THE OPERATOR SHALL COMPLY WITH THE REPORTING REQUIREMENTS OF RULE 1110.2(f)(1)(H)(i) THROUGH (iii), PERTAINING TO ANY EQUIPMENT BREAKDOWN THAT RESULTS IN EMISSIONS IN EXCESS OF RULE OR PERMIT EMISSION LIMITS.
[RULE 1110.2]
15. OPERATING RECORDS FOR THE EQUIPMENT, WHICH SHALL INCLUDE ALL DATA, LOGS, TEST REPORTS, DATES OF OPERATION, TOTAL HOURS OF OPERATION, AND FUEL CONSUMPTION FOR EACH TYPE OF FUEL SHALL BE MAINTAINED AND KEPT FOR AT LEAST FIVE YEARS AND MADE AVAILABLE TO SCAQMD PERSONNEL UPON REQUEST.
[RULE 1110.2]

Emissions and Requirements:

16. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
 - PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
 - NOX: 0.6 GM/BHP-HR, RULE 1303
 - NOX: 0.70 LBS/HR, RULE 1303
 - NOX: 36 PPMV, RULE 1110.2
 - VOC: 0.8 GM/BHP-HR, RULE 1303
 - VOC: 0.29 LBS/HR, RULE 1303
 - VOC: 250 PPMV, RULE 1110.2
 - CO: 2.5 GM/BHP-HR, RULE 1303
 - CO: 2.42 LBS/HR, RULE 1303
 - CO: 2000 PPMV, RULE 1110.2



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

PERMIT TO CONSTRUCT/OPERATE

Permit No. G23188
A/N 526293

Equipment Description:

INTERNAL COMBUSTION ENGINE, NON-EMERGENCY, WAUKESHA, MODEL H24 GLD, SPARK IGNITION, FOUR CYCLE, 8-CYLINDER, 530 BHP, LEAN BURN, TURBOCHARGED, AFTERCOOLED, FUELED WITH DIGESTER GAS, A DIGESTER GAS/NATURAL GAS BLEND, OR A NATURAL GAS/ AIR BLEND, WITH AN EXHAUST HEAT RECOVERY SYSTEM, AND AN AIR-TO-FUEL RATIO CONTROLLER, WAUKESHA, MODEL CEC, DRIVING AN AERATION BLOWER.

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 CONDITIONS AT ALL TIMES.
[RULE 204]
3. THIS EQUIPMENT SHALL BE FIRED ON DIGESTER GAS, A DIGESTER GAS/ NATURAL GAS BLEND, OR A NATURAL GAS/ AIR BLEND. THE NATURAL GAS/ AIR BLEND SHALL NOT EXCEED 650 BTU/SCF.
[RULE 1110.2, RULE 1303]
4. THIS EQUIPMENT SHALL BE OPERATED IN COMPLIANCE WITH ALL APPLICABLE PROVISIONS OF RULE 1110.2, RULE 431.1, AND 40 CFR 63 SUBPART ZZZZ.
[RULE 1110.2, RULE 431.1, 40CFR63 SUBPART ZZZZ]
5. A NON-RESETTABLE OPERATIONAL TOTALIZING TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE IN CUMULATIVE HOURS THE ENGINE IS OPERATED.
[RULE 1110.2]
6. A FUEL METER SHALL BE INSTALLED AND MAINTAINED IN THE FUEL SUPPLY LINE TO THE ENGINE TO INDICATE THE FUEL USAGE IN CUBIC FEET, FOR EACH TYPE OF FUEL USED, AND FUEL USAGE SHALL BE RECORDED.
[RULE 204, RULE 1110.2]
7. THE TWO DIGESTER GAS FIRED ENGINES MAY ONLY BE OPERATED AT THE SAME TIME IF THE AVAILABLE DIGESTER GAS IS GREATER THAN THE 100% OF THE TOTAL HEAT INPUT (HIGHER HEATING VALUE BASIS) FOR ONE ENGINE, UNLESS THE THIRD ENGINE USED TO DRIVE AN AERATION BLOWER IS TEMPORARILY OUT OF SERVICE FOR REPAIR, MAINTENANCE, OR TESTING.
[RULE 1110.2]



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

8. THE DIGESTER GAS ENGINES SHALL BE OPERATED WITH AT LEAST 50% OF THE TOTAL HEAT INPUT SUPPLIED BY DIGESTER GAS (HIGHER HEATING VALUE BASIS) FOR THE FACILITY AVERAGE IN EACH CALENDAR MONTH EXCEPT WHEN THIS SEWAGE TREATMENT PLANT ACTIVATES AN EMERGENCY OPERATIONS CENTER OR INCIDENT COMMAND SYSTEM, AS PART OF AN EMERGENCY RESPONSE PLAN, BECAUSE OF EITHER HIGH INFLUENT FLOWS CAUSED BY PRECIPITATION OR A DISASTER.
[RULE 1110.2]
9. AN ENGINE OPERATING LOG SHALL BE MAINTAINED WHICH ON A MONTHLY BASIS SHALL LIST ALL ENGINE OPERATIONS IN EACH OF THE FOLLOWING AREAS:
 - A. TOTAL HOURS OF OPERATION.
 - B. THE NUMBER OF HOURS THE ENGINE IS OPERATED ON SPECIFIC FUEL OR FUEL BLENDS USED AND THE FUEL USED.
 - C. THE BTU RATING OF THE DIGESTER GAS.
 - D. FUEL CONSUMPTION OF EACH FUEL TYPE.
 - E. THE PERCENT DIGESTER GAS OF THE TOTAL FUEL BY VOLUME.
 - F. THE NUMBER OF HOURS THE ENGINE IS OPERATED CUMULATIVE HOURS OF OPERATION SINCE THE LAST SOURCE TEST.[RULE 204, RULE 1110.2]
10. THE ENGINE SHALL OPERATE BETWEEN 1539 AND 1881 RPM, EXCEPT DURING START-UP OR SHUT-DOWN OPERATION WHICH DOES NOT EXCEED 30 MINUTES PER EVENT.
[RULE 1110.2]
11. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE CO, NOX, AND VOC EMISSION LIMITS BY CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY 2 YEARS, OR EVERY 8,760 OPERATING HOURS, WHICHEVER OCCURS FIRST. THE SOURCE TEST FREQUENCY MAY BE REDUCED TO ONCE EVERY THREE YEARS IF THE ENGINE HAS OPERATED LESS THAN 2,000 HOURS SINCE THE LAST SOURCE TEST. THE TEST SHALL BE CONDUCTED USING THE TEST METHOD AS STATED IN RULE 1110.2. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1110.2 CONCENTRATION LIMITS. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.
[RULE 1110.2]
12. THIS ENGINE SHALL NOT BE OPERATED WITHOUT THE USE OF AN AUTOMATIC AIR TO FUEL RATIO CONTROLLER WHICH SHALL BE MAINTAINED AND KEPT IN PROPER OPERATING CONDITIONS AT ALL TIMES AS SPECIFIED BY THE MANUFACTURER.
[RULE 1110.2]
13. THE OPERATOR SHALL MAINTAIN AND IMPLEMENT AN INSPECTION AND MONITORING (I&M) PLAN BASED ON EQUIPMENT AS DESCRIBED IN THIS PERMIT IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF RULE 1110.2(f)(1)(D).
[RULE 1110.2]



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

14. THE OPERATOR SHALL COMPLY WITH THE REPORTING REQUIREMENTS OF RULE 1110.2(f)(1)(H)(i) THROUGH (iii), PERTAINING TO ANY EQUIPMENT BREAKDOWN THAT RESULTS IN EMISSIONS IN EXCESS OF RULE OR PERMIT EMISSION LIMITS.
[RULE 1110.2]
15. OPERATING RECORDS FOR THE EQUIPMENT, WHICH SHALL INCLUDE ALL DATA, LOGS, TEST REPORTS, DATES OF OPERATION, TOTAL HOURS OF OPERATION, AND FUEL CONSUMPTION FOR EACH TYPE OF FUEL SHALL BE MAINTAINED AND KEPT FOR AT LEAST FIVE YEARS AND MADE AVAILABLE TO SCAQMD PERSONNEL UPON REQUEST.
[RULE 1110.2]

Emissions and Requirements:

16. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
 - PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
 - NOX: 0.6 GM/BHP-HR, RULE 1303
 - NOX: 0.70 LBS/HR, RULE 1303
 - NOX: 36 PPMV, RULE 1110.2
 - VOC: 0.8 GM/BHP-HR, RULE 1303
 - VOC: 0.29 LBS/HR, RULE 1303
 - VOC: 250 PPMV, RULE 1110.2
 - CO: 2.5 GM/BHP-HR, RULE 1303
 - CO: 2.42 LBS/HR, RULE 1303
 - CO: 2000 PPMV, RULE 1110.2



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

PERMIT TO OPERATE

Permit No. G22797
A/N 541131

Equipment Description:

INTERNAL COMBUSTION ENGINE, MTU ONSITE ENERGY/MTU DETROIT DIESEL, MODEL 16V2000G85 TB/TD (R1638A37), FOUR-STROKE CYCLE, 16 CYLINDER, 1495 BHP, DIESEL FIRED, TURBOCHARGED, WITH DIESEL PARTICULATE FILTER, RYPOS, INC., MODEL HDPF/C, DRIVING AN EMERGENCY ELECTRICAL GENERATOR.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED, UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITIONS AT ALL TIMES.
[RULE 204]
3. THIS ENGINE SHALL NOT BE OPERATED UNLESS ITS EXHAUST IS VENTED TO THE DIESEL PARTICULATE FILTER SYSTEM WHICH IS IN FULL OPERATION AND WHICH IS IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 1303-LAER/BACT]
4. THIS ENGINE SHALL NOT BE OPERATED MORE THAN A TOTAL OF 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN 50 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND PERFORMANCE TESTING, AND NO MORE THAN 24 HOURS IN ANY ONE MONTH FOR MAINTENANCE AND TESTING.
[RULE 1110.2, RULE 1303-BACT, RULE 1304(a) (4)-MODELING AND OFFSET EXEMPTIONS, RULE 1470]
5. OPERATION BEYOND THE 50 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE UTILITY DISTRIBUTION COMPANY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE. ENGINE OPERATION SHALL BE TERMINATED IMMEDIATELY AFTER THE UTILITY DISTRIBUTION COMPANY ADVISES THAT A ROTATING OUTAGE IS NO LONGER IMMINENT OR IN EFFECT.
[RULE 1303- BACT, RULE 1470]



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

6. THIS ENGINE SHALL NOT BE USED AS PART OF AN INTERRUPTIBLE SERVICE CONTRACT IN WHICH A FACILITY RECEIVES A PAYMENT OR REDUCED RATES IN RETURN FOR REDUCING ELECTRIC LOAD ON THE GRID WHEN REQUESTED TO DO SO BY THE UTILITY OR THE GRID OPERATOR.

[RULE 1303-BACT, RULE 1470]

7. AN OPERATIONAL NON-RESETTABLE ELAPSED TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.

[RULE 1110.2; RULE 1303-BACT, 1304(a) (4)-MODELING AND OFFSET EXEMPTIONS, RULE 1470, 40CFR60 Subpart III]

8. AFTER EVERY 1,000 HOURS OF ENGINE OPERATION, THE OPERATOR SHALL INSPECT THE INTEGRITY OF THE FILTER AND, IF NECESSARY, CLEAN IT.

[RULE 204]

9. AN ENGINE OPERATING LOG SHALL BE MAINTAINED WHICH ON A MONTHLY BASIS SHALL LIST ALL ENGINE OPERATIONS IN EACH OF THE FOLLOWING AREAS:

- A. EMERGENCY USE HOURS OF OPERATION.
- B. MAINTENANCE AND TESTING HOURS.
- C. HOURS OF OPERATION FOR DEMONSTRATING COMPLIANCE.
- D. INITIAL START-UP HOURS.
- E. OTHER OPERATING HOURS (DESCRIBE THE REASON FOR OPERATION)

IN ADDITION, EACH TIME THE ENGINE IS STARTED MANUALLY, THE LOG SHALL INCLUDE THE DATE OF OPERATION AND THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION. THE LOG SHALL BE KEPT FOR A MINIMUM OF FIVE CALENDAR YEARS AND SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION FOR THE PREVIOUS CALENDAR YEAR SHALL BE RECORDED SOMETIME DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.

[RULE 1110.2, RULE 1303-BACT, 1304(a) (4)-MODELING AND OFFSET EXEMPTIONS, RULE 1470, 40CFR60 Subpart III]

10. THE SULFUR CONTENT OF DIESEL FUEL SUPPLIED TO THIS ENGINE SHALL NOT EXCEED 15 PPM (0.0015%) BY WEIGHT.

[RULE 431.2, RULE 1470, 40CFR60 Subpart III]

11. THE OWNER/OPERATOR SHALL DEMONSTRATE COMPLIANCE TO THE EXECUTIVE OFFICER'S SATISFACTION BY AT LEAST ONE OF THE FOLLOWING:

- A. THIS ENGINE SHALL BE EQUIPPED WITH A CARB LEVEL 3 VERIFIED DIESEL PARTICULATE FILTER FOR THE MAKE AND MODEL OF THIS ENGINE AND THE OWNER OR OPERATOR SHALL RETAIN THE CARB ISSUED EXECUTIVE ORDER ON SITE AND MAKE IT AVAILABLE TO SCAQMD PERSONNEL UPON REQUEST AND FOLLOW THE CARB ISSUED EXECUTIVE ORDER.
- B. CONDUCT A SOURCE TEST OF THIS EQUIPMENT NO LATER THAN 180 DAYS AFTER INSTALLATION TO DEMONSTRATE COMPLIANCE WITH 85% PM CONTROL EFFICIENCY AND TO MEET THE FOLLOWING REQUIREMENTS:



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

1. A TEST PROTOCOL SHALL BE SUBMITTED TO THE SCAQMD, REFINERY AND WASTE MANAGEMENT TEAM, NOT LATER THAN 30 DAYS BEFORE THE PROPOSED TEST DATE AND SHALL BE APPROVED BY SCAQMD BEFORE THE TEST COMMENCES.
 2. THE TEST SHALL BE PERFORMED BY A TESTING LABORATORY CERTIFIED TO MEET THE CRITERIA IN SCAQMD RULE 304 (NO CONFLICT OF INTEREST).
 3. THE SCAQMD ENGINEER SHALL BE NOTIFIED OF THE DATE AND TIME OF THE TEST AT LEAST 10 DAYS PRIOR TO THE TEST, OR WITHIN A TIME PERIOD AGREED UPON BY THE SCAQMD ENGINEER.
 4. SAMPLING FACILITIES SHALL COMPLY WITH SCAQMD "GUIDELINES FOR CONSTRUCTION OF SAMPLING AND TESTING FACILITIES" PURSUANT TO RULE 217.
- C. THIS ENGINE SHALL BE EQUIPPED WITH A LEVEL 3 VERIFIED DIESEL EMISSION CONTROL STRATEGY IN COMBINATION WITH A CERTIFIED CI ENGINE THAT MEETS A 0.15 G/BHP-HR OR LESS PM EMISSION STANDARD, OR,
- AN ALTERNATIVE DIESEL PM CONTROL METHOD THAT IS EQUAL TO OR MORE EFFECTIVE THAN A LEVEL 3 VERIFIED DIESEL EMISSION CONTROL STRATEGY IN COMBINATION WITH A CERTIFIED CI ENGINE THAT MEETS A 0.15 G/BHP-HR OR LESS PM EMISSION STANDARD, AND IS APPROVED FOR USE BY THE EXECUTIVE OFFICER.
[RULE 204]
12. A BACK PRESSURE MONITOR SHALL BE INSTALLED AND MAINTAINED ON THE DIESEL PARTICULATE FILTER (DPF) TO INDICATE THE BACKPRESSURE OF THE DPF.
[RULE 204]
 13. OWNER OR OPERATOR SHALL KEEP RECORDS OF ANY CORRECTIVE ACTION TAKEN AFTER THE BACKPRESSURE MONITOR HAS NOTIFIED THE OWNER OR OPERATOR THAT THE HIGH BACKPRESSURE LIMIT OF THE ENGINE IS APPROACHED.
[RULE 204, 40CFR60 Subpart III]
 14. THIS ENGINE SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF RULE 431.2, RULE 1470, 40CFR60 SUBPART III, AND 40CFR63 SUBPART ZZZZ.
[RULE 431.2, RULE 1470, 40CFR60 Subpart III, 40CFR63SUBPART ZZZZ]
- Emissions and Requirements:**
15. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

PM:	RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
PM:	0.15 gm/bhp-hr, 40CFR60 Subpart III
PM:	0.0225 gm/bhp-hr, RULE 1303-LAER/BACT
NOx +NMHC:	4.8 g/bhp-hr, RULE 1303-LAER/BACT, 40CFR60 Subpart III
CO:	2.6 g/bhp-hr, RULE 1303-LAER/BACT, 40CFR60 Subpart III



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

RULE 219 EQUIPMENT

Equipment Description:

RULE 219 EXEMPT EQUIPMENT, BOILER, > 400,000 BTU/HR BUT < 2 MMBTU/HR.

Emissions and Requirements:

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

PM: 0.1 gr/scf, RULE 409
NOx: 30 PPMV, RULE 1146.2
CO: 400 PPMV, RULE 1146.2
CO: 2000 PPMV, RULE 407



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

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



**FACILITY PERMIT TO OPERATE
EASTERN MUNICIPAL WATER DISTRICT**

RULE 219 EQUIPMENT

Equipment Description:

RULE 219 EXEMPT EQUIPMENT, HAND WIPING OPERATION.

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



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





**FACILITY PERMIT TO OPERATE
EASTERN MUNICIPAL WATER DISTRICT**

**Facility Equipment and Requirements
(Section H)**

This section consists of a table listing all individual Permits to Construct and Temporary Permits to Operate 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.



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

PERMITTED EQUIPMENT LIST

The following is a list of all permits to construct and temporary permits to operate at this facility:

Application No.	Permit No.	Equipment description	Page No.
495605	-	SEWAGE TREATMENT (>5 MG/D) ANAEROBIC (superseded by A/N R-513153)	3
R-513153	-	SEWAGE TREATMENT (>5 MG/D) ANAEROBIC	7
534092	-	ICE (>500 HP) NON-EMERGENCY STATIONARY NATURAL GAS ONLY	11

NOTE: EQUIPMENT LISTED ABOVE THAT HAVE NO CORRESPONDING PERMITS TO OPERATE NUMBER ARE ISSUED PERMITS TO CONSTRUCT. THE ISSUANCE OR DENIAL OF THEIR PERMITS TO OPERATE IS SUBJECT TO ENGINEERING FINAL REVIEW. ANY OTHER APPLICATIONS THAT ARE STILL BEING PROCESSED AND HAVE NOT BEEN ISSUED PERMITS TO CONSTRUCT OR PERMITS TO OPERATE WILL NOT BE FOUND IN THIS TITLE V PERMIT.



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

PERMIT TO CONSTRUCT

A/N 495605
Granted 12/10/2009

Equipment Description:

ALTERATION OF PERMIT TO OPERATE F97959, APPLICATION NO. 435791:

SEWAGE TREATMENT PLANT, 18 MGD CAPACITY CONSISTING OF:

I. PRELIMINARY TREATMENT (HEADWORKS):

1. TWO SCREENING REMOVAL UNITS.
2. ONE MANUAL BYPASS BAR SCREEN.
3. TWO VORTEX GRIT BASINS, 16'-0" DIA. X 6' - 10" D.
4. SPLITTER BOX WITH ASSOCIATED CONVEYORS, WASHERS, BINS, PIPING AND PUMPS.
5. STORAGE TOTES, EACH 250 GALLONS CAPACITY, POLYMER, WITH ASSOCIATED PUMPS AND PIPING.
6. STORAGE TANK, 6,000 GALLON CAPACITY FRP, FERRIC CHLORIDE, WITH ASSOCIATED PUMPS AND PIPING.

II. PLANT NO. 1:

1. PRIMARY TREATMENT:
 - A. FOUR PRIMARY CLARIFIERS, COVERED, EACH 20'-0" W. X 89'-0" L. X 10'-0" D., WITH ASSOCIATED COLLECTORS, DRIVES, PUMPS, AND PIPING.
 - B. PRIMARY FLOW EQUALIZATION BASIN, 75'-0" W. X 280'-0" L. X 15'-0" D., WITH ASSOCIATED AERATORS AND PUMPS.
2. SECONDARY TREATMENT:
 - A. SIX AERATION BASINS, EACH 30'-0" W. X 150'-0" L. X 15'-0" D., WITH ASSOCIATED AERATION SYSTEM, MIXERS, PUMPS AND PIPING.
 - B. SEVEN SECONDARY CLARIFIERS, EACH 20'-0" W. X 100'-0" L. X 10'-0" D., WITH ASSOCIATED COLLECTORS, DRIVES, PUMPS, AND PIPING.

III. PLANT NO. 2:

1. PRIMARY TREATMENT:
 - A. SIX PRIMARY CLARIFIERS, COVERED, EACH 20'-0" W. X 90'-0" L. X 12'-0" D., WITH ASSOCIATED COLLECTORS, DRIVES, PUMPS AND PIPING.
2. SECONDARY TREATMENT:
 - A. TWO AERATION BASINS, EACH 80'-0" W. X 200'-0" L. X 15'-0" D., WITH ASSOCIATED AERATION SYSTEM, MIXERS, PUMPS AND PIPING.
 - B. FIVE SECONDARY CLARIFIERS, EACH 20'-0" W. X 150'-0" L. X 14'-0" D., WITH ASSOCIATED COLLECTORS, DRIVES, PUMPS AND PIPING.
3. SECONDARY EFFLUENT STORAGE POND, 180'-0" W. X 180'-0" L. X 15'-0" D.



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

IV. ADVANCED WASTE TREATMENT (AWT):

1. TWO DENITRIFICATION TOWERS, THREE CELLS EACH, EACH CELL 12'-0" W. X 21'-0" L. X 14'-0" D., WITH ASSOCIATED PUMPS.
2. FLOW DIVERSION STRUCTURE, 6'-0" W. X 13'-0" L. X 17'-0" H.
3. TWO BACKWASH BASINS, EACH 101'-0" W. X 111'-0" L. X 18'-0" D.
4. TWO FLOCCULATION BASINS, EACH 30'-0" W. X 45'-0" L. X 10'-0" D. WITH ASSOCIATED PUMPS.
5. TWO TERTIARY CLARIFIERS, EACH 86'-0" DIA. X 15'-0" D., WITH TWO COLLECTOR DRIVES, AND ONE SCUM PUMP.
6. THREE STORAGE TANKS, ALUM, EACH 12'-0" DIA. X 10'-0" H.
7. FOUR STORAGE TANKS, CAUSTIC SODA, 7'-0" DIA. X 10'-0" H.

V. TERTIARY TREATMENT:

1. SIX ADVANCED WATER TREATMENT (AWT) SLUDGE DEWATERING PONDS/DRYING BEDS, EACH 90'-0" W. X 90'-0" L. X 3'-6" D.
2. THREE RETURN WATER PUMPS, EACH 15 H.P.
3. EIGHT DUAL MEDIA GRAVITY FILTERS, EACH 15'-0" W. X 23'-0" L. X 13'-0" D., AND ASSOCIATED BLOWERS, PUMPS AND PIPING.
4. FOUR CLOTH FILTERS, EACH WITH A RATED PEAK FLOW OF 4.16 MGD.
5. FOUR CHLORINE CONTACT CHAMBERS, EACH 6'-9" W. X 554'-0" L. X 15'-0" D., WITH CHLORINE SOLUTION DIFFUSER ASSEMBLY, AND THREE STANDBY WASHWATER PUMPS.
6. TERTIARY EFFLUENT STORAGE POND, 180'-0" W. X 180'-0" L. X 15'-0" D., WITH THREE ELECTRICAL EFFLUENT PUMPS.
7. EMERGENCY EFFLUENT STORAGE POND, 480'-0" W. X 500'-0" L. X 7'-0" D.
8. EMERGENCY EFFLUENT STORAGE POND, 350'-0" W. X 420'-0" L. X 8'-0" D.
9. EMERGENCY EFFLUENT STORAGE POND, 210'-0" W. X 310'-0" L. X 8'-0" D.
10. TWO 17-TON BULK CHLORINE STORAGE TANKS WITH ASSOCIATED EVAPORATORS, CHLORINATORS, INJECTORS, CHLORINE SCRUBBER SYSTEM AND PIPING.

VI. SOLIDS HANDLING:

1. ONE DISSOLVED AIR FLOTATION (DAF) TANK, 30'-0" DIA. X 22'-0" H., WITH ASSOCIATED PUMPS.
2. ONE GRAVITY BELT THICKENER, 6'-0" W. BELT AND ASSOCIATED POLYMER SYSTEM, PUMPS AND PIPING.
3. ONE ROTARY DRUM THICKENER.
4. FOUR ANAEROBIC DIGESTERS, EACH 56'-0" DIA. X 22'-0" H., WITH ASSOCIATED HEAT EXCHANGERS, PUMPS AND PIPING.
5. BOILER, WALKER, HEAT-X, 1 MM BTU/HR, NATURAL GAS FIRED, WITH ASSOCIATED PUMP AND BLOWER.
6. DIGESTED SLUDGE HOLDING TANK, UNDER GROUND, 40'-0" DIA. X 20'-0" H., WITH ASSOCIATED MIXER AND PUMPS.
7. DIGESTED SLUDGE HOLDING TANK, ABOVE GROUND, 45'-0" DIA. X 32'-0" H., WITH ASSOCIATED MIXER AND PUMPS.
8. CENTRIFUGE, 300 GPM CAPACITY.
9. TWO BELT FILTER PRESSES, ASHBROOK-SIMON-HARTLEY, 6'-0" WIDE, WITH ASSOCIATED CONVEYORS.



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

10. SLUDGE OFF-LOADING STATION, WITH A 27 CUBIC FOOT HOPPER.
11. LOW PRESSURE GAS HOLDER TANK, DIGESTER GAS, 24'-0" DIA. X 24'-0" H., WITH ASSOCIATED HERMETIC GAS BOOSTERS.
12. GAS STORAGE SPHERE, DIGESTER GAS, 35'- 0" DIA., WITH A GAS COMPRESSOR.

BY THE ADDITION OF:

1. ONE SECONDARY CLARIFIERS, 20'-0" W. X 150'-0" L. X 14'-0" D., WITH ASSOCIATED COLLECTORS, DRIVES, PUMPS AND PIPING. [III. PLANT NO. 2, SECONDARY TREATMENT, ITEM (2)(B).]
2. ONE SECONDARY EFFLUENT STORAGE POND, 180'-0" W. X 180'-0" L. X 15'-0" D. [IDENTICAL TO III. PLANT NO. 2, SECONDARY TREATMENT ITEM NO. 3]
3. TWO OUT-OF-COMPLIANCE EFFLUENT STORAGE PONDS, 22 MILLION GALLONS CAPACITY. [V. TERTIARY TREATMENT, ITEM NO. 11]
4. TWO ANAEROBIC DIGESTERS, EACH 80'-0" DIA. X 30'-0" H., WITH ASSOCIATED HEAT EXCHANGERS, PUMPS AND PIPING. [VI. SOLIDS HANDLING, NEW ITEM NO. 5]
5. ONE TERTIARY EFFLUENT POND, 6 MG CAPACITY WITH THREE ELECTRICAL EFFLUENT PUMPS.
6. TWO OUT-OF-COMPLIANCE WATER PUMPS, 75 HP EACH.

BY THE ALTERATION OF:

1. EMERGENCY EFFLUENT STORAGE POND, 22.1 MILLION GALLONS [V. TERTIARY TREATMENT, ITEM NO. 7]
2. EMERGENCY EFFLUENT STORAGE POND, 5.3 MILLION GALLONS [V. TERTIARY TREATMENT, ITEM NO. 9]

AND BY THE REMOVAL OF:

1. EMERGENCY EFFLUENT STORAGE POND, 350'-0" W. X 420'-0" L. X 8'-0" D. [V. TERTIARY TREATMENT, ITEM NO. 8]
2. TERTIARY EFFLUENT STORAGE POND, 180'-0" W. X 180'-0" L. X 15'-0" D. WITH THREE ELECTRICAL EFFLUENT 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]



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

3. THIS EQUIPMENT SHALL BE OPERATED BY PERSONNEL PROPERLY TRAINED IN ITS OPERATION.
[RULE 204]
4. THE HEADWORKS, VORTEX GRIT BASIN, PRIMARY CLARIFIERS, SLUDGE TRANSFER STORAGE, AND SLUDGE SYSTEMS WITHIN THE SLUDGE DEWATERING BUILDING, SHALL NOT BE OPERATED UNLESS THEY ARE VENTED TO AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL OPERATION AND WHICH HAS BEEN ISSUED A PERMIT TO CONSTRUCT OR OPERATE BY THE SCAQMD.
[RULE 1303]
5. THE DIGESTER GAS PRODUCED AT THIS FACILITY SHALL BE STORED IN THE GAS STORAGE SPHERE OR INCINERATED BY EQUIPMENT THAT HAS A VALID PERMIT, OR IS EXEMPTED BY RULE 219.
[RULE 1303]
6. THE MAXIMUM QUANTITY OF WASTEWATER TREATED BY THIS EQUIPMENT, ON AN ANNUAL BASIS, SHALL NOT EXCEED 18 MILLION GALLONS PER DAY (MGD), EXCEPT DURING WET WEATHER CONDITIONS.
[RULE 1303]
7. UNTIL SLUDGE IS DEWATERED IT SHALL BE PIPED AND STORED IN AN ENCLOSED MANNER TO PREVENT THE RELEASE OF AIR CONTAMINANTS.
[RULE 402]
8. THE BELT FILTER PRESSES SHALL BE OPERATED ONLY AS BACKUP TO THE CENTRIFUGE.
[RULE 1303]
9. DEWATERED SLUDGE SHALL BE STORED IN THE STORAGE HOPPER PRIOR TO TRUCK LOADING.
[RULE 402]
10. RECORDS SHALL BE KEPT TO SHOW COMPLIANCE WITH THE ABOVE CONDITIONS FOR A PERIOD OF AT LEAST FIVE YEARS AND SHALL BE MADE AVAILABLE TO SCAQMD PERSONNEL UPON REQUEST.
[RULE 204]



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

PERMIT TO CONSTRUCT

A/N R-513153

Granted: February 26, 2013

Equipment Description:

ALTERATION OF APPLICATION NO. 495605:

SEWAGE TREATMENT PLANT, 18 MGD CAPACITY CONSISTING OF:

I. PRELIMINARY TREATMENT (HEADWORKS):

1. TWO SCREENING REMOVAL UNITS.
2. ONE MANUAL BYPASS BAR SCREEN.
3. TWO VORTEX GRIT BASINS, 16'-0" DIA. X 6' - 10" D.
4. SPLITTER BOX WITH ASSOCIATED CONVEYORS, WASHERS, BINS, PIPING AND PUMPS.
5. STORAGE TOTES, EACH 250 GALLONS CAPACITY, POLYMER, WITH ASSOCIATED PUMPS AND PIPING.
6. STORAGE TANK, 6,000 GALLON CAPACITY FRP, FERRIC CHLORIDE, WITH ASSOCIATED PUMPS AND PIPING.

II. PLANT NO. 1:

1. PRIMARY TREATMENT:
 - A. FOUR PRIMARY CLARIFIERS, COVERED, EACH 20'-0" W. X 89'-0" L. X 10'-0" D., WITH ASSOCIATED COLLECTORS, DRIVES, PUMPS, AND PIPING.
 - B. PRIMARY FLOW EQUALIZATION BASIN, 75'-0" W. X 280'-0" L. X 15'-0" D., WITH ASSOCIATED AERATORS AND PUMPS.
2. SECONDARY TREATMENT:
 - A. SIX AERATION BASINS, EACH 30'-0" W. X 150'-0" L. X 15'-0" D., WITH ASSOCIATED AERATION SYSTEM, MIXERS, PUMPS AND PIPING.
 - B. SEVEN SECONDARY CLARIFIERS, EACH 20'-0" W. X 100'-0" L. X 10'-0" D., WITH ASSOCIATED COLLECTORS, DRIVES, PUMPS, AND PIPING.

III. PLANT NO. 2:

1. PRIMARY TREATMENT:
 - A. SIX PRIMARY CLARIFIERS, COVERED, EACH 20'-0" W. X 90'-0" L. X 12'-0" D., WITH ASSOCIATED COLLECTORS, DRIVES, PUMPS AND PIPING.
2. SECONDARY TREATMENT:
 - A. TWO AERATION BASINS, EACH 80'-0" W. X 200'-0" L. X 15'-0" D., WITH ASSOCIATED AERATION SYSTEM, MIXERS, PUMPS AND PIPING.
 - B. SIX SECONDARY CLARIFIERS, EACH 20'-0" W. X 150'-0" L. X 14'-0" D., WITH ASSOCIATED COLLECTORS, DRIVES, PUMPS AND PIPING.
3. TWO SECONDARY EFFLUENT STORAGE PONDS, 180'-0" W. X 180'-0" L. X 15'-0" D.



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

IV. ADVANCED WASTE TREATMENT (AWT):

1. TWO DENITRIFICATION TOWERS, THREE CELLS EACH, EACH CELL 12'-0" W. X 21'-0" L. X 14'-0" D., WITH ASSOCIATED PUMPS.
2. FLOW DIVERSION STRUCTURE, 6'-0" W. X 13'-0" L. X 17'-0" H.
3. TWO BACKWASH BASINS, EACH 101'-0" W. X 111'-0" L. X 18'-0" D.
4. TWO FLOCCULATION BASINS, EACH 30'-0" W. X 45'-0" L. X 10'-0" D. WITH ASSOCIATED PUMPS.
5. TWO TERTIARY CLARIFIERS, EACH 86'-0" DIA. X 15'-0" D., WITH TWO COLLECTOR DRIVES, AND ONE SCUM PUMP.
6. THREE STORAGE TANKS, ALUM, EACH 12'-0" DIA. X 10'-0" H.
7. FOUR STORAGE TANKS, CAUSTIC SODA, 7'-0" DIA. X 10'-0" H.

V. TERTIARY TREATMENT:

1. SIX ADVANCED WATER TREATMENT (AWT) SLUDGE DEWATERING PONDS/DRYING BEDS, EACH 90'-0" W. X 90'-0" L. X 3'-6" D.
2. THREE RETURN WATER PUMPS, EACH 15 H.P.
3. EIGHT DUAL MEDIA GRAVITY FILTERS, EACH 15'-0" W. X 23'-0" L. X 13'-0" D., AND ASSOCIATED BLOWERS, PUMPS AND PIPING.
4. FOUR CLOTH FILTERS, EACH WITH A RATED PEAK FLOW OF 4.16 MGD.
5. FOUR CHLORINE CONTACT CHAMBERS, EACH 6'-9" W. X 554'-0" L. X 15'-0" D., WITH CHLORINE SOLUTION DIFFUSER ASSEMBLY, AND THREE STANDBY WASHWATER PUMPS.
6. TERTIARY EFFLUENT POND, 6 MG CAPACITY WITH THREE ELECTRICAL EFFLUENT PUMPS.
7. EMERGENCY EFFLUENT STORAGE POND, 22.1 MILLION GALLONS.
8. EMERGENCY EFFLUENT STORAGE POND, 5.3 MILLION GALLONS
9. TWO 17- TON BULK CHLORINE STORAGE TANKS WITH ASSOCIATED EVAPORATORS, CHLORINATORS, INJECTORS, CHLORINE SCRUBBER SYSTEM AND PIPING.
10. TWO OUT-OF-COMPLIANCE EFFLUENT STORAGE PONDS, 22 MILLION GALLONS CAPACITY.
11. TWO OUT-OF-COMPLIANCE WATER PUMPS, 75 HP EACH.

VI. SOLIDS HANDLING:

1. ONE DISSOLVED AIR FLOATATION (DAF) TANK, 30'-0" DIA. X 22'-0" H., WITH ASSOCIATED PUMPS.
2. ONE GRAVITY BELT THICKENER, 6'-0" W. BELT AND ASSOCIATED POLYMER SYSTEM, PUMPS AND PIPING.
3. ONE ROTARY DRUM THICKENER.
4. FOUR ANAEROBIC DIGESTERS, EACH 56'-0" DIA. X 22'-0" H., WITH ASSOCIATED HEAT EXCHANGERS, PUMPS AND PIPING.
5. TWO ANAEROBIC DIGESTERS, EACH 80'-0" DIA. X 30'-0" H., WITH ASSOCIATED HEAT EXCHANGERS, PUMPS AND PIPING.
6. BOILER, WALKER, HEAT-X, 1 MM BTU/HR, NATURAL GAS FIRED, WITH ASSOCIATED PUMP AND BLOWER.
7. DIGESTED SLUDGE HOLDING TANK, UNDER GROUND, 40'-0" DIA. X 20'-0" H., WITH ASSOCIATED MIXER AND PUMPS.



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

8. DIGESTED SLUDGE HOLDING TANK, ABOVE GROUND, 45'-0" DIA. X 32'-0" H., WITH ASSOCIATED MIXER AND PUMPS.
9. CENTRIFUGE, 300 GPM CAPACITY.
10. TWO BELT FILTER PRESSES, ASHBROOK-SIMON-HARTLEY, 6'-0" WIDE, WITH ASSOCIATED CONVEYORS.
11. SLUDGE OFF-LOADING STATION, WITH A 27 CUBIC FOOT HOPPER.
12. LOW PRESSURE GAS HOLDER TANK, DIGESTER GAS, 24'-0" DIA. X 24'-0" H., WITH ASSOCIATED HERMETIC GAS BOOSTERS.
13. GAS STORAGE SPHERE, DIGESTER GAS, 35'-0" DIA., WITH A GAS COMPRESSOR.

BY THE ADDITION OF:

1. TWO FERRIC CHLORIDE STORAGE TANKS, 8,000 GALLON MAXIMUM CAPACITY EACH, WITH ASSOCIATED PUMPS AND PIPING. [I. PRELIMINARY TREATMENT (HEADWORKS), ITEM NO. 6]
2. ONE ROTOSCREEN, WESTECH [VI. SOLIDS HANDLING, ITEM NO. 2]

BY THE REMOVAL OF:

1. STORAGE TANK, 6,000 GALLON CAPACITY FRP, FERRIC CHLORIDE, WITH ASSOCIATED PUMPS AND PIPING. [I. PRELIMINARY TREATMENT (HEADWORKS), ITEM NO. 6]
2. CENTRIFUGE, 300 GPM CAPACITY. [VI. SOLIDS HANDLING, ITEM NO. 9]
3. BOILER, WALKER, HEAT-X, 1 MM BTU/HR, NATURAL GAS FIRED, WITH ASSOCIATED PUMP AND BLOWER. [VI. SOLIDS HANDLING, ITEM NO. 6]
4. TWO BELT FILTER PRESSES, ASHBROOK-SIMON-HARTLEY, 6'-0" WIDE, WITH ASSOCIATED CONVEYORS. [VI. SOLIDS HANDLING, ITEM NO. 10]

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 EASTERN MUNICIPAL WATER DISTRICT

4. THE HEADWORKS, VORTEX GRIT BASIN, PRIMARY CLARIFIERS, SLUDGE TRANSFER STORAGE, AND SLUDGE SYSTEMS WITHIN THE SLUDGE DEWATERING BUILDING, SHALL NOT BE OPERATED UNLESS THEY ARE VENTED TO AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL OPERATION AND WHICH HAS BEEN ISSUED A PERMIT TO CONSTRUCT OR OPERATE BY THE SCAQMD.
[RULE 1303]
5. THE DIGESTER GAS PRODUCED AT THIS FACILITY SHALL BE STORED IN THE GAS STORAGE SPHERE OR INCINERATED BY EQUIPMENT THAT HAS A VALID PERMIT, OR IS EXEMPTED BY RULE 219.
[RULE 1303]
6. THE MAXIMUM QUANTITY OF WASTEWATER TREATED BY THIS EQUIPMENT, ON AN ANNUAL BASIS, SHALL NOT EXCEED 18 MILLION GALLONS PER DAY (MGD), EXCEPT DURING WET WEATHER CONDITIONS.
[RULE 1303]
7. UNTIL SLUDGE IS DEWATERED IT SHALL BE PIPED AND STORED IN AN ENCLOSED MANNER TO PREVENT THE RELEASE OF AIR CONTAMINANTS.
[RULE 402]
8. DEWATERED SLUDGE SHALL BE STORED IN THE STORAGE HOPPER PRIOR TO TRUCK LOADING.
[RULE 402]
9. RECORDS SHALL BE KEPT TO SHOW COMPLIANCE WITH THE ABOVE CONDITIONS FOR A PERIOD OF AT LEAST FIVE YEARS AND SHALL BE MADE AVAILABLE TO SCAQMD PERSONNEL UPON REQUEST.
[RULE 204]

THIS PERMIT TO CONSTRUCT R-513153 SUPERSEDES PERMIT TO CONSTRUCT 513153 ISSUED ON FEBRUARY 10, 2011.



**FACILITY PERMIT TO OPERATE
EASTERN MUNICIPAL WATER DISTRICT**

PERMIT TO CONSTRUCT

**A/N 534092
Granted: February 26, 2013**

Equipment Description:

ALTERATION OF:

INTERNAL COMBUSTION ENGINE, CATERPILLAR, MODEL NO. G3512 SITA SCAC, TURBOCHARGED, AFTERCOOLED, 814 BHP, RICH-BURN, NATURAL GAS FIRED, WITH A DCL CATALYST, MODEL NO. DLC 2-DC74-10, AND AN AIR/FUEL RATIO CONTROLLER, ALTRONIC EPC-100E, DRIVING A WATER PUMP.

BY ADDITION OF:

SPARK IGNITION
12 CYLINDERS
MIRATECH NON-SELECTIVE CATALYTIC CONVERTER, MODEL SP-IQ-2S-26X3-10-EC2

BY REMOVAL OF:

DCL CATALYST, MODEL NO. DLC 2-DC74-10

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 ENGINE SHALL NOT BE OPERATED UNLESS ITS EXHAUST IS VENTED TO AN AIR POLLUTION CONTROL DEVICE, WHICH IS IN FULL OPERATION AND WHICH IS IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
4. THIS ENGINE SHALL ONLY BE FIRED ON NATURAL GAS.
[RULE 204, RULE 1110.2]
5. THIS EQUIPMENT SHALL BE OPERATED IN COMPLIANCE WITH ALL APPLICABLE PROVISIONS OF RULE 1110.2, RULE 431.1, AND 40 CFR 63 SUBPART ZZZZ.
[RULE 1110.2, RULE 431.1, 40CFR63 SUBPART ZZZZ]



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

6. THE IGNITION TIMING OF THIS ENGINE SHALL BE INSPECTED, ADJUSTED AND CERTIFIED AT A MINIMUM ONCE EVERY THREE YEARS OF OPERATION. INSPECTIONS, ADJUSTMENTS AND CERTIFICATIONS SHALL BE PERFORMED BY A QUALIFIED MECHANIC AND ACCORDING TO THE ENGINE MANUFACTURER'S PROCEDURES.
[RULE 204]
7. THE CATALYST IN THE CONVERTER SHALL BE MAINTAINED IN GOOD WORKING CONDITION. THE OPERATOR SHALL MAINTAIN RECORDS OF CATALYST CLEANING PERIODS AND REPLACEMENT FREQUENCY.
[RULE 1303]
8. A DIFFERENTIAL PRESSURE MEASURING DEVICE SHALL BE INSTALLED TO MEASURE THE PRESSURE DROP ACROSS THE CATALYST. IF THE PRESSURE DROP EXCEEDS 2 INCHES OF WATER COLUMN (W.C.), AS COMPARED TO THE PRESSURE MEASURED AFTER THE MOST RECENT CLEANING, THE CATALYST SHALL BE CLEANED ACCORDING TO THE PROCEDURE RECOMMENDED BY THE MANUFACTURER. THE TOTAL PRESSURE DROP SHALL NOT EXCEED 7 INCHES W.C.
[RULE 204, RULE 1110.2, RULE 1303]
9. A HIGH TEMPERATURE SHUT-DOWN MECHANISM SHALL BE INSTALLED AT THE OUTLET PORT OF THE CONVERTER AND SET TO 1350 DEGREES FAHRENHEIT OR LESS.
[RULE 1303]
10. WHENEVER THE ENGINE IS OPERATING, THE TEMPERATURE AT THE INLET OF THE CATALYTIC OXIDIZER SHALL BE MAINTAINED BETWEEN 600 DEGREES FAHRENHEIT AND 1250 DEGREES FAHRENHEIT, EXCEPT DURING START-UP OR SHUT-DOWN OPERATION WHICH DOES NOT EXCEED 30 MINUTES PER EVENT.
[RULE 1303]
11. THE OPERATOR SHALL MAINTAIN AND IMPLEMENT AN INSPECTION AND MONITORING (I&M) PLAN, BASED ON EQUIPMENT AS DESCRIBED IN THIS PERMIT IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF RULE 1110.2(f)(1)(D).
[RULE 1110.2]
12. A NON-RESETTABLE OPERATIONAL TOTALIZING FUEL METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE FUEL USAGE, IN CUBIC FEET, IN THE FUEL SUPPLY LINE TO THE ENGINE.
[RULE 1110.2]
13. A NON-RESETTABLE OPERATIONAL TOTALIZING TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE, IN CUMULATIVE HOURS, THE ENGINE ELAPSED OPERATING TIME.
[RULE 1110.2]



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

14. AN ENGINE OPERATING LOG SHALL BE MAINTAINED WHICH ON A MONTHLY BASIS SHALL LIST ALL ENGINE OPERATIONS IN EACH OF THE FOLLOWING AREAS:
- A. TOTAL HOURS OF OPERATION.
 - B. THE NUMBER OF HOURS THE ENGINE IS OPERATED ON SPECIFIC FUEL OR FUEL BLENDS USED AND THE FUEL USED.
 - C. FUEL CONSUMPTION OF EACH FUEL TYPE.
 - D. CUMULATIVE HOURS OF OPERATION SINCE THE LAST SOURCE TEST.
- [RULE 204, RULE 1110.2]
15. THE ENGINE SHALL OPERATE BETWEEN 1044 AND 1276 RPM, EXCEPT DURING START-UP OR SHUT-DOWN OPERATION WHICH DOES NOT EXCEED 30 MINUTES, PER EVENT.
- [RULE 1110.2]
16. TESTING SHALL BE CONDUCTED AT THE OUTLET OF THE ENGINE AT LEAST ONCE EVERY TWO YEARS, OR EVERY 8,760 OPERATING HOURS, WHICHEVER OCCURS FIRST. THE SOURCE TEST FREQUENCY MAY BE REDUCED TO ONCE EVERY THREE YEARS IF THE ENGINE HAS OPERATED LESS THAN 2,000 HOURS SINCE THE LAST SOURCE TEST. IF THE ENGINE HAS NOT BEEN OPERATED WITHIN THREE MONTHS OF THE DATE A SOURCE TEST IS REQUIRED, THE SOURCE TEST SHALL BE CONDUCTED WHEN THE ENGINE RESUMES OPERATION FOR A PERIOD LONGER THAN EITHER SEVEN CONSECUTIVE DAYS OR 15 CUMULATIVE DAYS OF OPERATION. THE RESULTS OF THESE TESTS SHALL BE FURNISHED TO THE SCAQMD IN WRITING WITHIN 60 DAYS AFTER THE TESTS ARE CONDUCTED. WRITTEN NOTICE OF THE PERFORMANCE TESTS SCHEDULE SHALL BE PROVIDED TO THE SCAQMD 7 DAYS PRIOR TO THE TESTS SO THAT AN OBSERVER MAY BE PRESENT. THE TESTING SHALL INCLUDE, BUT NOT BE LIMITED TO:
- A. TOTAL NON-METHANE ORGANICS
 - B. OXIDES OF NITROGEN
 - C. CARBON MONOXIDE
 - D. CARBON DIOXIDE
 - E. OXYGEN
 - F. NITROGEN
 - G. MOISTURE CONTENT
 - H. TEMPERATURE
 - I. FLOW RATE
- THE FINAL REPORT SHALL INCLUDE FUEL CONSUMPTION AND THE ENGINE LOAD DURING THE TESTS.
- [RULE 1110.2, RULE 1303]
17. THE OPERATOR SHALL COMPLY WITH THE REPORTING REQUIREMENTS OF RULE 1110.2(f)(1)(H)(i) THROUGH (iii), PERTAINING TO ANY EQUIPMENT BREAKDOWN THAT RESULTS IN EMISSIONS IN EXCESS OF RULE OR PERMIT EMISSION LIMITS.
- [RULE 1110.2]



FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

Periodic Monitoring:

18. THIS ENGINE SHALL NOT BE OPERATED WITHOUT THE USE OF AN AUTOMATIC AIR TO FUEL RATIO CONTROLLER WHICH SHALL BE MAINTAINED AND KEPT IN PROPER OPERATING CONDITIONS AT ALL TIMES AS SPECIFIED BY THE MANUFACTURER.
[RULE 1110.2, RULE 1303, RULE 3004(a)(4)]
19. A TEMPERATURE MEASUREMENT AND RECORDING DEVICE SHALL BE INSTALLED AND MAINTAINED AT THE INLET AND OUTLET OF THE CATALYST.
[RULE 1303, RULE 3004(a)(4)]
20. THE OPERATOR SHALL USE THIS EQUIPMENT IN SUCH A MANNER THAT THE OXYGEN CONCENTRATION BEING MONITORED, AS INDICATED BELOW, DOES NOT EXCEED 0.5%. TO COMPLY WITH THIS CONDITION, THE OPERATOR SHALL INSTALL AND MAINTAIN A SENSOR TO ACCURATELY INDICATE THE OXYGEN CONCENTRATION OF THE EXHAUST GAS ENTERING THE CATALYST. THE OPERATOR SHALL ALSO INSTALL AND MAINTAIN A DEVICE TO CONTINUOUSLY RECORD THE PARAMETER BEING MEASURED. PARAMETRIC OPERATING DATA MAY BE USED IN LIEU OF DIRECT OXYGEN MEASUREMENTS.
[RULE 1303, RULE 3004(a)(4)]
21. OPERATING RECORDS FOR THE EQUIPMENT, WHICH SHALL INCLUDE ALL DATA, LOGS, TEST REPORTS, DATES OF OPERATION, TOTAL HOURS OF OPERATION, AND FUEL CONSUMPTION FOR EACH TYPE OF FUEL SHALL BE MAINTAINED AND KEPT FOR AT LEAST FIVE YEARS AND MADE AVAILABLE TO SCAQMD PERSONNEL UPON REQUEST.
[RULE 1110.2, RULE 3004(a)(4)]

Emissions and Requirements:

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

PM10 RULE 404, SEE APPENDIX B FOR EMISSIONS LIMITS
NOX: 11 PPMV, RULE 1110.2@ 15% O2 DRY
NOX: 11 PPMV, RULE 1303@ 15% O2 DRY, ONE HOUR AVERAGE
VOC: 30 PPMV, RULE 1110.2@ 15% O2 DRY
VOC: 37 PPMV, RULE 1303@ 15% O2 DRY, ONE HOUR AVERAGE
CO: 250 PPMV, RULE 1110.2@ 15% O2 DRY
CO: 86 PPMV, RULE 1303@ 15% O2 DRY, ONE HOUR AVERAGE