



# South Coast Air Quality Management District

21865 Copley Drive, Diamond Bar, CA 91765-4178  
(909) 396-2000 • www.aqmd.gov

November 1, 2013

Mr. Paul D. Jones II  
General Manager  
Eastern Municipal Water District  
P.O. Box 3800  
Perris, CA 92572

Subject: Transmittal of Final Title V Permit (Renewal) for Eastern Municipal Water District  
(Facility ID 007417)

Dear Mr. Jones,

Enclosed is the final Title V Facility Permit Renewal for Eastern Municipal Water District located at 13041 Case Road, Perris, CA 92570, that has been issued by the South Coast Air Quality Management District (SCAQMD). This Title V permit supersedes the previous Title V Permit issued by the SCAQMD to the facility listed above (Facility ID 007417).

Your new Facility Permit has been updated to reflect the inclusion of the following changes:

#### Section A, Facility Information

The Responsible Official has been updated.

#### Section D, Permit to Operate

This section includes updated Facility Wide Conditions, which are requirements applicable to all equipment at the facility.

#### Section H, Permit to Construct

This section includes updated Facility Wide Conditions, which are requirements applicable to all equipment at the facility.

#### Section J, Air Toxics

This section has been updated to include current applicable rules and requirements.

#### Section K, Title V Administration

This section has been updated to include current applicable rules and requirements.

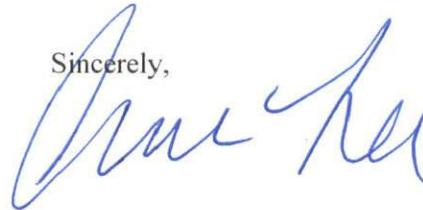
#### Appendix B, Rule Emission Limits

This section has been updated to include current applicable rules and requirements.

The draft copy of this permit was submitted to EPA Region IX for a 45-day review period (September 13, 2013 to October 28, 2013) and made available for a 30-day public comment period (September 20, 2013 to October 22, 2013). The SCAQMD did not receive any comments on the draft permit.

Please review this facility permit carefully. If you determine that there are administrative errors in the permit, have any questions, or need additional information concerning this permit, please contact Charles Tupac of the Energy, Public Service, Waste Management, & Terminals Team at (909) 396-2684 within 30 days of the receipt of your permit.

Sincerely,

A handwritten signature in blue ink, appearing to read "Andrew Y. Lee".

Andrew Y. Lee, P.E.  
Senior Manager  
Energy/Public Services/Waste  
Mgmt/Terminals-Permitting  
Engineering and Compliance Division

AYL:CDT:AIS

Enclosure

cc: (w/ enclosure)  
Gerardo Rios, EPA Region IX  
Compliance  
Title V Central File  
Title V Application File A/N 550497

(w/o enclosure)  
Mohan Balagopalan

## **FACILITY PERMIT TO OPERATE**

**EASTERN MUNICIPAL WATER DIST  
1301 CASE RD  
PERRIS, CA 92570**

### **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 DIST

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## FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DIST

### SECTION A: FACILITY INFORMATION

**LEGAL OWNER &/OR OPERATOR:** EASTERN MUNICIPAL WATER DIST

**LEGAL OPERATOR (if different than owner):**

**EQUIPMENT LOCATION:** 1301 CASE RD  
 PERRIS, CA 92570

**MAILING ADDRESS:** P O BOX 8300  
 PERRIS, CA 92572-8300

**RESPONSIBLE OFFICIAL:** PAUL D. JONES II

**TITLE:** GENERAL MANAGER

**TELEPHONE NUMBER:** (951) 928-3777

**CONTACT PERSON:** ALFRED JAVIER

**TITLE:** ENVIRONMENTAL SERVICES MANAGER

**TELEPHONE NUMBER:** (951) 928-3777

**TITLE V PERMIT ISSUED:** November 01, 2013

**TITLE V PERMIT EXPIRATION DATE:** October 31, 2018

<b>TITLE V</b>	<b>RECLAIM</b>
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<b>YES</b>	<b>NOx: NO</b> <b>SOx: NO</b> <b>CYCLE: 0</b> <b>ZONE: INLAND</b>
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**FACILITY PERMIT TO OPERATE  
EASTERN MUNICIPAL WATER DIST**

**SECTION B: RECLAIM ANNUAL EMISSION ALLOCATION**

NOT APPLICABLE

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

**SECTION C: FACILITY PLOT PLAN**

(TO BE DEVELOPED)

## **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 OPERATE AT THIS FACILITY:

<b>Application number</b>	<b>Permit number</b>	<b>Equipment description</b>	<b>Page #</b>
180365	D40834	ICE (50-500 HP) EMERGENCY ELEC. GENERATOR NAT GAS	4
337778	F41973	SERV STAT STORAGE & DISPENSING GASOLINE	5
431064	R-F69264	SEWAGE TREATMENT (>5 MG/D) AEROBIC	8
466470	G3951	STORAGE TANK, LPG	11
466471	G3952	STORAGE TANK, LPG	13
471708	G25303	BIOFILTER (>100 CFM)	15
496805	G25304	ICE (>500 HP) EMERGENCY ELEC. GENERATOR NAT GAS	17
499897	G9937	DIGESTER GAS TREATMENT SYSTEM & FUEL CELL POWER PLANT	19
503372	G9939	ICE (>500 HP) EMERGENCY ELEC. GENERATOR- NG & LPG	23
505538	G25305	BOILER (5-20 MMBTU/HR) OTHER FUEL	25
510552	G13149	ICE (50-500 HP) NON-EMERGENCY STATIONARY NAT GAS-LPG	28
510553	G13150	ICE (50-500 HP) NON-EMERGENCY STATIONARY NAT GAS-LPG	31
510554	G13151	ICE (50-500 HP) NON-EMERGENCY STATIONARY NAT GAS-LPG	34
513835	G25306	FLARE, ENCLOSED LANDFILL/DIGESTER GAS	37
529142	G22436	ICE (>500 HP) EMERGENCY ELEC. GENERATOR NAT GAS	40

**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**

### **FACILITY WIDE 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 H<sub>2</sub>S, 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 SO<sub>2</sub>.  
[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]
5. THE FACILITY SHALL BE OPERATED IN COMPLIANCE WITH ALL APPLICABLE PROVISIONS OF 40 CR 63 SUBPART ZZZZ.  
[40 CFR 63 SUBPART ZZZZ]

## FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

### PERMIT TO OPERATE

**Permit No. D40834  
A/N 180365**

**Equipment Description:**

INTERNAL COMBUSTION ENGINE, CATERPILLAR, NATURAL GAS-FUELED, MODEL NO. G342, SERIAL NO. 71B3089, 6 CYLINDERS, 4 CYCLES, TURBOCHARGED AFTERCOOLED, 295 BHP, DRIVING AN EMERGENCY ELECTRICAL GENERATOR.

**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. THE IGNITION TIMING OF THE ENGINE SHALL BE INSPECTED, ADJUSTED, AND CERTIFIED AT A MINIMUM OF ONCE EVERY THREE YEARS OF OPERATION.  
[RULE 204]
4. THIS ENGINE SHALL ONLY OPERATE 200 HOURS OR LESS IN ANY ONE YEAR.
5. AN OPERATIONAL NON-RESETTABLE TOTALIZING TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
6. 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.

**Emission and Requirements:**

7. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:  
  
PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS  
PM: RULE 1470

## FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

### PERMIT TO OPERATE

Permit No. F41973  
A/N 337778

#### Equipment Description:

FUEL STORAGE AND DISPENSING FACILITY CONSISTING OF:

1. 1 - DUAL COMPARTMENT ABOVEGROUND GASOLINE/DIESEL STORAGE TANK, CONVAULT TYPE, 11'-3" L. X 8'-0" W. X 5'-6" H., 2000-GALLON CAPACITY, CONCRETE INSULATION, WITH A PRESSURE/VACUUM RELIEF VALVE, AND A COAXIAL SUBMERGED FILL TUBE, CONSISTING OF:
  - A. ONE 1000-GALLON GASOLINE COMPARTMENT TANK, EQUIPPED WITH PHASE I VAPOR RECOVERY SYSTEM.
  - B. ONE 1000-GALLON DIESEL COMPARTMENT TANK, NOT EQUIPPED WITH PHASE I VAPOR RECOVERY SYSTEM.
2. 1 - GASOLINE NOZZLE WITH A 12'-6" L. HOSE ON A TANK SIDE MOUNTED DISPENSER, WITH PHASE II VRS BALANCE HI HOSE (G-70-52-AM), BALANCE SYSTEM.

#### Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT WAS 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. EXCEPT FOR DIESEL TRANSFERS, PHASE I VAPOR RECOVERY SYSTEMS SHALL BE IN FULL OPERATION WHENEVER FUEL IS BEING TRANSFERRED INTO STORAGE TANKS.  
[RULE 461]
4. EXCEPT FOR DIESEL TRANSFERS, PHASE II VAPOR RECOVERY SYSTEMS SHALL BE IN FULL OPERATION WHENEVER FUEL IS BEING TRANSFERRED INTO MOTOR VEHICLES, AS DEFINED IN RULE 461.  
[RULE 461]
5. ALL PHASE I AND PHASE II VAPOR RECOVERY EQUIPMENT AT THIS FACILITY SHALL BE INSTALLED, OPERATED AND MAINTAINED TO MEET ALL CALIFORNIA AIR RESOURCES BOARD CERTIFICATION REQUIREMENTS.  
[RULE 461]

## FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

6. PHASE II VAPOR RECOVERY SYSTEMS SHALL BE INSTALLED, OPERATED, AND MAINTAINED SUCH THAT THE MAXIMUM ALLOWABLE PRESSURE DROP THROUGH THE SYSTEM INCLUDING NOZZLE, VAPOR HOSE, SWIVELS, AND UNDERGROUND PIPING DOES NOT EXCEED THE DYNAMIC BACK PRESSURE RATES DESCRIBED BY THE CALIFORNIA AIR RESOURCES BOARD EXECUTIVE ORDER BY WHICH THE SYSTEM WAS CERTIFIED:

NITROGEN FLOWRATES (CFH)	DYNAMIC BACK PRESSURE (INCHES OF WATER)
20	0.15
40	0.16
60	0.35
80	0.62
100	0.95

DYNAMIC BACK PRESSURE TESTS SHALL BE CONDUCTED TO DETERMINE THE PHASE II SYSTEM VAPOR RECOVERY BACK PRESSURES. THE TESTS SHALL BE CONDUCTED IN ACCORDANCE WITH CARB TEST PROCEDURE METHOD TP-201.4. RESULTS SHALL BE SUBMITTED TO THE DISTRICT, OFFICE OF ENGINEERING AND COMPLIANCE, WITHIN FORTY-EIGHT (48) HOURS OF TESTS.

THE SCAQMD SHALL BE NOTIFIED BY E-MAIL AT R461TESTING@AQMD.GOV OR AT TELEPHONE NUMBER (909) 396-3886 AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO TESTING. SUCH NOTIFICATION SHALL INCLUDE THE NAME OF THE OWNER OR OPERATOR; THE NAME OF THE CONTRACTORS; THE LOCATION OF THE FACILITY; AND THE SCHEDULED START AND COMPLETION DATES OF THE DYNAMIC BACK PRESSURE TEST.

[RULE 461]

7. A STATIC PRESSURE LEAK DECAY TEST SHALL BE CONDUCTED TO DEMONSTRATE THAT THE STORAGE TANKS, THE REMOTE AND/OR NOZZLE VAPOR RECOVERY CHECK VALVES, ASSOCIATED VAPOR RETURN PIPING AND FITTINGS ARE FREE FROM VAPOR LEAKS. THE TEST SHALL BE CONDUCTED IN ACCORDANCE WITH CARB TEST PROCEDURE METHOD TP-201.3. RESULTS SHALL BE SUBMITTED TO THE SCAQMD, OFFICE OF ENGINEERING AND COMPLIANCE, WITHIN FORTY-EIGHT (48) HOURS OF TEST.

THE SCAQMD SHALL BE NOTIFIED BY E-MAIL AT R461TESTING@AQMD.GOV OR AT TELEPHONE NUMBER (909) 396-3886 AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO TESTING. SUCH NOTIFICATION SHALL INCLUDE THE NAME OF THE OWNER OR OPERATOR; THE NAME OF THE CONTRACTORS; THE LOCATION OF THE FACILITY; AND THE SCHEDULED START AND COMPLETION DATES OF THE STATIC PRESSURE LEAK DECAY TEST.

[RULE 461]

## FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

8. IF THE CARB EXECUTIVE ORDER REQUIRES THE INSTALLATION OF A LIQUID REMOVAL DEVICE, A LIQUID REMOVAL RATE TEST SHALL BE CONDUCTED TO DEMONSTRATE THE REMOVAL OF GASOLINE FROM THE VAPOR PASSAGE OF THE COAXIAL HOSE. THE TEST SHALL BE CONDUCTED IN ACCORDANCE WITH CARB TEST PROCEDURE METHOD TP-201.6. RESULTS SHALL BE SUBMITTED TO THE SCAQMD, OFFICE OF ENGINEERING AND COMPLIANCE, WITHIN FORTY-EIGHT (48) HOURS OF TEST.

THE SCAQMD SHALL BE NOTIFIED BY E-MAIL AT R461TESTING@AQMD.GOV OR AT TELEPHONE NUMBER (909) 396-3886 AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO TESTING. SUCH NOTIFICATION SHALL INCLUDE THE NAME OF THE OWNER OR OPERATOR; THE NAME OF THE CONTRACTORS; THE LOCATION OF THE FACILITY; AND THE SCHEDULED START AND COMPLETION DATES OF THE LIQUID REMOVAL RATE TEST.

[RULE 461]

9. THE TESTING FREQUENCY FOR THE ABOVE MENTIONED TESTS SHALL BE CONDUCTED IN ACCORDANCE WITH THE MOST RECENT RULE 461 AMENDMENT OR CARB EXECUTIVE ORDER REQUIREMENTS, WHICHEVER IS MORE STRINGENT.

[RULE 461]

10. ALL RECORDS AND TEST RESULTS THAT ARE REQUIRED TO BE MAINTAINED BY RULE 461 SHALL BE KEPT ON SITE AND MADE AVAILABLE TO DISTRICT REPRESENTATIVES UPON REQUEST.

[RULE 461]

11. THE MAXIMUM QUANTITY OF GASOLINE DISPENSED FROM THE STORAGE TANKS AT THIS FACILITY SHALL NOT EXCEED 5000 GALLONS IN ANY ONE CALENDAR MONTH NOR 60000 GALLONS IN ANY ONE CALENDAR YEAR.

[RULE 461]

### **Periodic Monitoring:**

12. THE OPERATOR SHALL HAVE A PERSON THAT HAS BEEN TRAINED IN ACCORDANCE WITH RULE (461)(d)(4) CONDUCT AN ANNUAL INSPECTION IN ACCORDANCE WITH RULE 461(d)(1)(B) OF THE GASOLINE TRANSFER AND DISPENSING EQUIPMENT. THE INSPECTION SHALL BE IN ACCORDANCE WITH RULE 461, ATTACHMENT C. THE OPERATOR SHALL KEEP RECORDS OF THE INSPECTION AND THE REPAIRS IN ACCORDANCE WITH RULE 461 AND SECTION K OF THIS PERMIT.

[RULE 3004(a)(4)]

## FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

### PERMIT TO OPERATE

Permit No. R-F69264  
A/N 431064

#### Equipment Description:

SEWAGE TREATMENT FACILITY, 11 MGD TOTAL CAPACITY, CONSISTING OF:

- I. CONVENTIONAL ACTIVATED SLUDGE PLANT, 3 MGD, AEROBIC DIGESTION CONSISTING OF:
  1. LIFT STATION WITH ASSOCIATED PUMPS AND MOTORS.
  2. HEADWORKS WITH RAW SEWAGE PUMPING AND GRINDING SYSTEM, WET WELL AND ASSOCIATED PUMPS.
  3. GRIT REMOVAL CHAMBER, 14'-0" W. X 15'-0" L. X 13'-0" D., WITH A SCREW AUGER AND ASSOCIATED PUMPS.
  4. TWO PRIMARY CLARIFIERS, EACH 15'-0" W. X 65'-0" L. X 10'-0" D. WITH ASSOCIATED PUMPS.
  5. EQUALIZATION BASIN, 1 MILLION GALLON CAPACITY.
  6. TWO AERATION TANKS, EACH 30'-0" W. X 150'-0" L. X 15'-0" D.
  7. THREE SECONDARY CLARIFICATION TANKS, EACH 16'-0" W. X 84'-0" L. X 10'-0" D., WITH ASSOCIATED PUMPS.
  8. SECONDARY SLUDGE WET WELL, 15'-0" W. X 15'-0" L. X 15'-0" D. WITH ASSOCIATED PUMPS.
  9. CHLORINE CONTACT BASIN, 18'-0" W. X 31'-0" L. X 12'-0" D. WITH ASSOCIATED PUMPS.
  10. EFFLUENT PUMPING STATION WITH ASSOCIATED PUMPS.
  11. AEROBIC DIGESTER, 30'-0" W. X 150'-0 L. X 15'-0" D.
  12. SEPTAGE RECEIVING SYSTEM WITH A 20,000 GALLON HOLDING TANK.
  13. SLUDGE PUMPING STATION AND ASSOCIATED PUMPS.
  14. AQUA BELT AND POLYMER ADDITION STATION.
  15. TREATED EFFLUENT DISCHARGE SYSTEM WITH FIVE EVAPORATION PERCOLATION PONDS WITH A TOTAL STORAGE VOLUME OF 263 MILLION GALLONS.
  16. TWELVE SLUDGE DRYING BEDS, EACH 100'-0" W. X 160'-0" L.
  
- II. BARDENPHO PROCESS PLANT, 8 MGD, CONSISTING OF:
  1. LIFT STATION WITH ASSOCIATED PUMPS.
  2. HEADWORKS BUILDING WITH BAR SCREENS, ASSOCIATED PUMPS AND CONVEYORS.
  3. GRIT CHAMBER, NON-AERATED GRAVITY SETTLING TYPE, COVERED, 13,000 GALLON CAPACITY WITH ASSOCIATED MIXERS, CLASSIFIERS AND PUMPS.
  4. BARDENPHO PROCESS AREA, SECONDARY TREATMENT, THREE (3) PARALLEL TRAINS, EACH CONSISTING OF:
    - A. FERMENTATION BASINS, EACH 170,000 GALLON CAPACITY WITH ASSOCIATED MIXERS.
    - B. PRIMARY DENITRIFICATION BASIN, 1,100,000 GALLONS WITH ASSOCIATED MIXERS.
    - C. NITRIFICATION BASIN, 3,600,000 GALLON CAPACITY WITH ASSOCIATED MIXERS AND PUMPS.
    - D. TWO SECONDARY DENITRIFICATION BASINS, EACH 500,000 GALLONS WITH ASSOCIATED PUMPS.
    - E. REAERATION BASINS, 140,000 GALLONS WITH ASSOCIATED AERATION BLOWER.
  5. TWO SECONDARY CLARIFIERS, EACH 1,400,000 GALLONS WITH ASSOCIATED SKIMMERS.
  6. RAS/WAS PUMP STATION WITH ASSOCIATED PUMPS AND GRINDERS.

## FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

7. SLUDGE DEWATERING FACILITY WITH THREE BELT PRESSES, EACH TWO METER, ONE 150 GALLON POLYMER STORAGE TANK, ONE 710 CUBIC FEET SLUDGE HOPPER WITH TRUCK LOADOUT, ASSOCIATED PUMPS AND CONVEYORS.
8. FLOW EQUALIZATION BASIN, 3,600,000 GALLONS WITH ASSOCIATED MIXERS/AERATORS.
9. FLASH MIX PUMP STATION WITH A FLASH MIXING PUMP, CHLORINE, ALUM AND POLYMER INJECTION POINTS.
10. FLOCCULATION BASIN, 45,000 GALLONS.
11. TWO ALUM AND TWO POLYMER MIX FEED PUMPS.
12. SIX TERTIARY FILTERS, EACH 200 SQUARE FEET, SAND BED TYPE.
13. CHLORINE INJECTION/SPLITTER BOX.
14. CHLORINE CONTACT TANK, SPLIT FLOW, THREE COMPARTMENT, EACH COMPARTMENT, 500,000 GALLONS.
15. SO2 INJECTION BOX.
16. EFFLUENT PUMPING STATION AND ASSOCIATED PUMPS.
17. LIQUID ALUM STORAGE TANK, 12'-0" DIA. X 24'-0" H., 18,000 GALLON CAPACITY.
18. POLYMER SOLUTION STORAGE TANK, 8'-0" DIA. X 18'-0" H., 6,000 GALLON CAPACITY.
19. POLYMER EMULSION STORAGE TANK, 3'-0" DIA. X 4'-0" H., 150 GALLON CAPACITY.
20. SODIUM HYDROXIDE STORAGE TANK, 2210 GALLON CAPACITY WITH ASSOCIATED PUMPS.
21. ONE (1) SLUDGE DRYING BED, 240'-0" W. X 625'-0" L. X 0'-8" D.
22. ONE (1) SEPTAGE RECEIVING SYSTEM.

### 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. THE MAXIMUM QUANTITY OF WASTEWATER TREATED BY THIS EQUIPMENT SHALL NOT EXCEED 11 MILLION GALLONS IN ANY ONE DAY, EXCEPT DURING WET WEATHER CONDITIONS.  
[RULE 1303]
5. THE WET WELL SHALL REMAIN SEALED EXCEPT DURING INSPECTION AND MAINTENANCE. OPERATOR SHALL KEEP RECORDS OF MAINTENANCE PERFORMED AT THE WET WELL.  
[RULE 1303]

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

6. THE FACILITY OPERATOR SHALL CONDUCT H<sub>2</sub>S MONITORING, USING AN ITX MULTI-GAS MONITOR OR EQUIVALENT ELECTROCHEMICAL SENSOR ACCURATE TO 1 PPM, DURING INSPECTION AND MAINTENANCE OF THE WET WELL COMPARTMENT. THE MONITOR SHALL BE PROPERLY CALIBRATED BEFORE EACH DAILY USE. THE MONITORING SHALL BE CONDUCTED OUTSIDE OF THE WET WELL ENTRANCE DOOR AND THE AREA ABOVE THE WET WELL COMPARTMENT. RESULTS OF THE H<sub>2</sub>S MONITORING SHALL BE RECORDED AT A MINIMUM OF 15 MINUTE INTERVALS.  
[RULE 431.1]
  
7. WHENEVER THE H<sub>2</sub>S CONCENTRATION MONITORED DURING INSPECTION AND MAINTENANCE OF THE WET WELL COMPARTMENT EXCEEDS DETECTION LIMITS OF THE H<sub>2</sub>S MONITORING DEVICE, RELATIVE TO BACKGROUND CONCENTRATIONS, THE WET WELL INSPECTION/MAINTENANCE EVENT SHALL BE DISCONTINUED AND THE WET WELL DOOR SHALL BE CLOSED.  
[RULE 431.1]

**THIS PERMIT TO OPERATE R-F69264 SUPERSEDES PERMIT TO OPERATE F69264 ISSUED ON JUNE 30, 2004.**

## FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

### PERMIT TO OPERATE

**Permit No. G3951  
A/N 466470**

#### **Equipment Description:**

STORAGE TANK, NO. 1, LIQUEFIED PROPANE GAS, 9'-0" D. X 41'-6" L., PRESSURIZED, 18,328 GALLONS (76,700 POUNDS) CAPACITY, WITH PRESSURE RELIEF VALVE.

#### **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 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 GAUGE 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 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. G3952  
A/N 466471**

#### **Equipment Description:**

STORAGE TANK, NO. 2, LIQUEFIED PROPANE GAS, 6'-0" D. X 52'-7" L., PRESSURIZED, 10,677 GALLONS (44,630 POUNDS) CAPACITY, WITH PRESSURE RELIEF VALVE.

#### **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 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 GAUGE 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. G25303  
A/N 471708**

#### **Equipment Description:**

AIR POLLUTION CONTROL SYSTEM CONSISTING OF:

1. FOUR BIOFILTERS, CUSTOM, OPERATING IN PARALLEL, 95'-5" W. X 95'-5" L., EACH, WITH AT LEAST 3 FT OF ACTIVE MEDIA.
2. FOUR BLOWERS, EACH 35,000 CFM.
3. EXHAUST SYSTEM, 70,000 CFM MAXIMUM CAPACITY, VENTING THE INFLUENT LIFT STATION HEADWORKS, HEADWORKS BYPASS CHANNEL, GRIT CHAMBER, SCUM DECANT PUMP STATION, PRIMARY INFLUENT SPLITTER BOX, PRIMARY CLARIFIERS (3), PRIMARY EFFLUENT SPLITTER BOX, SLUDGE DEWATERING BUILDING, AND SEPTAGE RECEIVING STATION.

#### **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 INCOMING FOUL AIR HUMIDIFICATION AND SURFACE IRRIGATION SYSTEMS SHALL BE MAINTAINED IN GOOD OPERATING CONDITION AT ALL TIMES AND SHALL BE UTILIZED TO MAINTAIN THE DESIRED MOISTURE CONTENT WITHIN THE BIOFILTER.  
[RULE 402]
4. THE OPERATOR SHALL INSTALL AND MAINTAIN A FLOW METER TO MEASURE AND INDICATE THE INLET FLOW RATE TO EACH BIOFILTER.  
[RULE 204]
5. THE FLOW RATE AT THE INLET TO EACH BIOFILTER SHALL NOT EXCEED 17,500 CFM.  
[RULE 204]
6. ONCE EVERY SIX MONTHS, SMOKE TESTS SHALL BE CONDUCTED TO ENSURE EVEN DISTRIBUTION OF FOUL AIR THROUGH EACH BIOFILTER.  
[RULE 402]

## FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

7. THE CONCENTRATION OF H<sub>2</sub>S AT EACH BIOFILTER SURFACE (TOPS AND SIDES) SHALL BE MEASURED, USING COLORIMETRIC TUBES OR A PORTABLE H<sub>2</sub>S ANALYZER, AT LEAST ONCE PER WEEK, AT A MINIMUM OF 10 POINTS WHICH ARE SPACED EQUALLY APART OVER THE ENTIRE SURFACE OF THE BIOFILTER. THE AVERAGED H<sub>2</sub>S CONCENTRATION BASED ON THE AVERAGE MEASUREMENTS SHALL NOT EXCEED THE FOLLOWING, UNLESS OTHERWISE APPROVED IN WRITING BY THE EXECUTIVE OFFICER:

TOTAL SULFUR AS H<sub>2</sub>S            0.25 PPMV (AVERAGE)

MONITORING RECORDS SHALL BE KEPT AND MAINTAINED ON FILE.

[RULE 402]

8. THE HYDROGEN SULFIDE (H<sub>2</sub>S) CONCENTRATION AT THE DOWNWIND PROPERTY BOUNDARY SHALL NOT EXCEED 0.030 PPMV OR ANY REVISED STATE AMBIENT AIR QUALITY STANDARDS WHICH MAY BECOME EFFECTIVE DURING THE OPERATION OF THE FACILITY.

[RULE 204]

9. THE BIOFILTER MEDIA SHALL BE REPLACED OR REPLENISHED AS NEEDED TO MAINTAIN ADEQUATE PERFORMANCE.

[RULE 402]

10. THE OPERATOR SHALL KEEP RECORDS OF MAINTENANCE PERFORMED ON THE BIOFILTER.

[RULE 204]

11. THE OWNER OR OPERATOR SHALL CONDUCT DAILY INSPECTIONS TO MAKE SURE THAT THE BIOFILTER SURFACE IRRIGATION SPRINKLERS, INCLUDING WATER SUPPLY EQUIPMENT, ARE OPERATING SATISFACTORILY AND ARE MAINTAINING THE BIOFILTER SURFACE SUFFICIENTLY MOIST. RECORDS OF SURFACE MONITORING, INCLUDING CORRECTIVE DAILY ACTIONS, IF NECESSARY, SHALL BE MAINTAINED.

[RULE 204]

12. THE OWNER OR OPERATOR SHALL CONDUCT DAILY INSPECTIONS TO MAKE SURE THAT THE BIOFILTER SURFACE DOES NOT CONTAIN APERTURES OR EXCESSIVE VEGETATION.

[RULE 204]

13. THE OPERATOR SHALL MAINTAIN ADEQUATE RECORDS TO VERIFY COMPLIANCE WITH THE CONDITIONS ABOVE. SUCH RECORDS SHALL BE KEPT ON THE PREMISES FOR AT LEAST FIVE YEARS AND BE MADE AVAILABLE TO THE EXECUTIVE OFFICER OR HIS REPRESENTATIVE UPON REQUEST.

[RULE 204]

## FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

### PERMIT TO OPERATE

**Permit No. G25304  
A/N 496805**

#### **Equipment Description:**

INTERNAL COMBUSTION ENGINE, WAUKESHA, MODEL P9390GSI, NATURAL GAS FIRED, TURBOCHARGED AND AFTERCOOLED, SIXTEEN CYLINDERS, FOUR CYCLE, RICH BURN, 2117 BHP, WITH A CATALYTIC CONVERTER, MIRATECH, MODEL IQS-30-16-C1, AND AN AIR TO FUEL RATIO CONTROLLER, MIRATECH, MODEL MEC R, DRIVING A 1578 KW 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 CONDITION AT ALL TIMES.  
[RULE 204]
3. AN OPERATIONAL, NON-RESETTABLE TOTALIZING TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.  
[RULE 1110.2, 40CFR-Subpart JJJJ]
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 FOR MAINTENANCE AND TESTING.  
[RULE 1110.2, RULE 1303-BACT, RULE 1304(a)(4) – MODELING AND OFFSET EXEMPTION]
5. OPERATION BEYOND 50 HOURS PER YEAR FOR MAINTENANCE AND TESTING IS ALLOWED ONLY DURING EMERGENCIES RESULTING IN AN INTERRUPTION OF SERVICE OF THE PRIMARY POWER SUPPLY OR DURING STAGE II OR III ELECTRICAL EMERGENCIES DECLARED BY THE ELECTRICAL GRID OPERATOR.  
[RULE 1303(a)(1)-BACT]
6. AN ENGINE OPERATING LOG LISTING THE DATE OF OPERATION, THE ELAPSED TIME IN HOURS AND THE REASON FOR OPERATION SHALL BE KEPT, MAINTAINED ON FILE FOR A MINIMUM OF FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.  
[RULE 204]
7. ONCE EACH YEAR PRIOR TO JANUARY 15<sup>TH</sup>, THE OPERATOR SHALL RECORD THE TOTAL HOURS OF OPERATION FOR THIS PREVIOUS CALENDAR YEAR.  
[RULE 1110.2, RULE 1304(a)]

## FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

8. THE AIR-TO-FUEL RATIO CONTROLLER SHALL BE MAINTAINED ON THIS ENGINE AND SET TO MAINTAIN THE AIR TO FUEL RATIO WITHIN TOLERANCE LIMITS AS SPECIFIED BY THE CATALYTIC CONVERTER SUPPLIER OR AS DEMONSTRATED BY A SOURCE TEST TO MAINTAIN THE SUPPLIER GUARANTEED EMISSION REDUCTION EFFICIENCIES OR LIMITS.  
[RULE 204]
9. THE OPERATOR SHALL MAINTAIN RECORDS OF CATALYST CLEANING PERIODS AND REPLACEMENT FREQUENCY.  
[RULE 1303(a)(1)-BACT]
10. THIS ENGINE SHALL BE EQUIPPED WITH AN OXYGEN SENSOR AT THE EXHAUST OF THE ENGINE.  
[RULE 1303(a)(1)-BACT]
11. A MANOMETER OR PRESSURE GAUGE SHALL BE MAINTAINED TO MEASURE THE PRESSURE DIFFERENCE ACROSS THE CATALYST BED. THE PRESSURE DROP SHALL NOT EXCEED 4 INCHES OF WATER COLUMN.  
[RULE 1303(a)(1)-BACT]
12. THE OPERATOR SHALL INSTALL AND MAINTAIN A TEMPERATURE GAUGE AND RECORDING SYSTEM TO ACCURATELY INDICATE THE TEMPERATURE AT THE INLET AND OUTLET OF THE CATALYST.  
[RULE 1303(a)(1)-BACT]
13. THE TEMPERATURE OF THE EXHAUST GAS ENTERING THE CATALYST SHALL BE MAINTAINED BETWEEN 750 DEGREES F AND 1250 DEGREES F, EXCEPT DURING START-UP AND SHUTDOWN PERIODS OF THE ENGINE, EACH PERIOD SHALL NOT EXCEED 30 MINUTES.  
[RULE 204, RULE 1303(a)(1)-BACT]
14. THE TEMPERATURE OF THE EXHAUST GAS AT THE CATALYST OUTLET SHALL NOT EXCEED 1350 DEGREES F.  
[RULE 204, RULE 1303(a)(1)-BACT]

### **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  
PM10: 1 lbs/month, RULE 1313  
NOx: 1.5 gram/BHP-hr, RULE 1303-BACT  
NOx: 2.0 gram/BHP-hr, 40 CFR 60 Subpart JJJJ  
NOx: 30 lbs/month, RULE 1313  
VOC: 1.5 gram/BHP-hr, RULE 1303-BACT  
VOC: 1.0 gram/BHP-hr, 40 CFR 60 Subpart JJJJ  
VOC: 20 lbs/month, RULE 1313  
CO: 2.0 gram/BHP-hr, RULE 1303-BACT  
CO: 4.0 gram/BHP-hr, 40 CFR 60 Subpart JJJJ  
CO: 40 lbs/month, RULE 1313

## FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

### PERMIT TO CONSTRUCT/OPERATE

**Permit No. G9937**  
**A/N 499897**

#### **Equipment Description:**

DIGESTER GAS TREATMENT SYSTEM AND FUEL CELL POWER PLANT CONSISTING OF:

1. KNOCKOUT TANK.
2. TWO HYDROGEN SULFIDE REMOVAL VESSELS, APPLIED FILTER TECHNOLOGY, ESC CORPORATION, OR EQUIVALENT, AT LEAST 10'-0" DIA. X 10'-0" H., EACH WITH AT LEAST 25,000 POUNDS MEDIA.
3. PARTICULATE FILTER.
4. PRE-COOLER WITH DEMISTER.
5. ONE COMPRESSOR, 325 SCFM, ELECTRICALLY DRIVEN.
6. GAS PRE-COOLER AND COOLER WITH DEMISTER.
7. GAS RE-HEATER / HEAT EXCHANGER.
8. TWO SILOXANE REMOVAL VESSELS, APPLIED FILTER TECHNOLOGY, ESC CORPORATION, OR EQUIVALENT, AT LEAST 4'-0" DIA. X 8'-0" H. BED DEPTH, EACH CONTAINING AT LEAST 2,500 POUNDS MEDIA.
9. PARTICULATE FILTER.
10. TWO FUEL CELLS, FUEL-CELL ENERGY, MODEL DFC300MA, 600 KW TOTAL MAXIMUM POWER OUTPUT.
11. TWO HEAT RECOVERY UNITS, EACH WITH AN ELECTRIC HEATER.

#### **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]

## FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

3. THE OWNER OR OPERATOR OF THIS EQUIPMENT SHALL PROVIDE TO SCAQMD FOR APPROVAL, THE FINAL DIGESTER GAS TREATMENT SYSTEM AND FUEL CELL POWER PLANT DESIGN DRAWINGS, P&I DIAGRAMS, CONTROLS, EQUIPMENT SPECIFICATIONS (MAKE, MODEL, DIMENSIONS, SIZE AND MAXIMUM CAPACITY) AND MANUFACTURER'S EMISSION CERTIFICATION, PRIOR TO INSTALLATION OF THE EQUIPMENT.  
[RULE 204]
4. THIS EQUIPMENT SHALL BE USED ONLY FOR THE TREATMENT/CONTROL OF DIGESTER GAS, AND THE GENERATION OF ELECTRICITY AND HOT WATER, EXCEPT WHEN NATURAL GAS IS REQUIRED AS FUEL TO MAINTAIN FUEL CELL OPERATION.  
[RULE 204]
5. THE OPERATION OF THIS EQUIPMENT SHALL NOT RESULT IN THE RELEASE OF RAW DIGESTER GAS INTO THE ATMOSPHERE. ANY BREAKDOWN OR MALFUNCTION WHICH RESULTS IN EMISSION OF DIGESTER GAS SHALL BE REPORTED TO THE SCAQMD WITHIN ONE HOUR AFTER OCCURRENCE OR WITHIN ONE HOURS OF THE TIME THE OPERATING PERSONNEL KNEW OR REASONABLY SHOULD HAVE KNOWN OF THE OCCURRENCE AND IMMEDIATE REMEDIAL MEASURES SHALL BE UNDERTAKEN TO CORRECT THE PROBLEM AND PREVENT FURTHER EMISSIONS INTO THE ATMOSPHERE.  
[RULE 204, RULE 402]
6. A NON-RESETTABLE TOTALIZING FLOW METER SHALL BE INSTALLED AND MAINTAINED TO MEASURE AND RECORD THE TOTAL QUANTITY OF GAS TREATED.  
[RULE 204]
7. SAMPLING PORTS SHALL BE INSTALLED AT THE INLET GAS LINE TO THE DIGESTER GAS TREATMENT SYSTEM AND TO THE FUEL-CELL PRE-CONVERTER TO ALLOW THE COLLECTION OF DIGESTER GAS SAMPLES.  
[RULE 217]
8. TWO SAMPLING PORTS SHALL BE PROVIDED IN THE FUEL-CELL EXHAUST DUCT, 8-10 DUCT DIAMETERS DOWNSTREAM, AND TWO DUCT DIAMETERS UPSTREAM. THE SAMPLING PORT SHALL CONSIST OF TWO 4 INCH OUTLETS WITH BLIND FLANGE CONNECTIONS, SET 90 DEGREES APART. AN ALTERNATE SAMPLING LOCATION OR EQUIVALENT METHOD FOR EMISSION SAMPLING MAY BE USED UPON WRITTEN APPROVAL OF THE SCAQMD. ADEQUATE AND SAFE ACCESS TO THE TEST PORTS SHALL BE SUPPLIED BY THE APPLICANT.  
[RULE 217]
9. THE OPERATOR SHALL MEASURE THE CONCENTRATION OF TOTAL SULFUR AT THE INLET AND OUTLET OF THE DIGESTER GAS TREATMENT SYSTEM ONCE EACH QUARTER, USING METHODS APPROVED BY THE SCAQMD. ALL RESULTS SHALL BE RECORDED AND REPORTED IN PPMV AS H<sub>2</sub>S.  
[RULE 204]
10. THE CONCENTRATION OF SULFUR COMPOUNDS MEASURED AS HYDROGEN SULFIDE (H<sub>2</sub>S) AT THE INLET TO THE FUEL CELL PRE-CONVERTER SHALL NOT EXCEED 6.1 PPMV.  
[RULE 204]

## FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

11. THIS PERMIT SHALL EXPIRE IF CONSTRUCTION OF THIS EQUIPMENT IS NOT COMPLETED BY SEPTEMBER 9, 2011, UNLESS AN EXTENSION IS GRANTED BY THE EXECUTIVE OFFICER.  
[RULE 205]
12. THE SPENT MEDIA WHICH IS REMOVED FROM THE SYSTEM SHALL BE MAINTAINED OR STORED IN CLOSED CONTAINERS PRIOR TO REMOVAL FROM THE FACILITY.  
[RULE 402]
13. THE SULFUR AND SILOXANE TREATMENT MEDIA SHALL BE REPLACED AT A FREQUENCY NECESSARY TO MAINTAIN COMPLIANCE WITH THE EMISSION LIMITS IN THIS PERMIT AND TO OPERATE THE FUEL CELL IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.  
[RULE 204]
14. THE TOTAL VOLATILE ORGANIC COMPOUNDS (VOC) EMISSIONS FROM THE FUEL CELLS SHALL NOT EXCEED 0.08 LBS/HR (1.95 LBS/DAY).  
[RULE 1303-OFFSET]
15. ONCE EVERY FIVE YEARS, THE OPERATOR SHALL CONDUCT PERFORMANCE TESTS IN ACCORDANCE WITH SCAQMD APPROVED TEST PROCEDURES AND FURNISH THE SCAQMD WRITTEN RESULTS OF SUCH PERFORMANCE TESTS WITHIN SIXTY (60) DAYS AFTER TESTING. WRITTEN NOTICE OF THE SOURCE TEST SHALL BE PROVIDED TO THE SCAQMD AT LEAST 7 DAYS PRIOR TO TESTING SO THAT AN OBSERVER MAY BE PRESENT. A PROPOSAL OF SOURCE TEST PROCEDURES AND ANALYTICAL METHODS TO BE USED SHALL BE SUBMITTED TO THE SCAQMD FOR APPROVAL AT LEAST 60 DAYS PRIOR TO THE START OF THE TEST. THE TESTS SHALL INCLUDE, BUT MAY NOT BE LIMITED TO, A TEST OF THE OUTLET EXHAUST OF AT LEAST ONE FUEL CELL, THE RAW DIGESTER GAS, AND THE TREATED DIGESTER GAS, UNLESS OTHERWISE INDICATED BELOW. THE TEST SHALL INCLUDE THE FOLLOWING RESULTS AND PROCESS DATA:
  - A. METHANE CONTENT OF THE RAW AND TREATED DIGESTER GAS.
  - B. TOTAL NON-METHANE ORGANIC COMPOUNDS OF THE RAW DIGESTER GAS, TREATED DIGESTER GAS, AND AT LEAST ONE FUEL CELL EXHAUST OUTLET.
  - C. OXIDES OF NITROGEN AND OXIDES OF SULFUR (AT LEAST ONE FUEL CELL OUTLET) IN PPM AND LBS/HR.
  - D. CARBON MONOXIDE, (AT LEAST ONE FUEL CELL OUTLET), IN PPM, AND LBS/HR.
  - E. OXYGEN CONTENT.
  - F. MOISTURE CONTENT.
  - G. TEMPERATURE OF THE FUEL CELL.
  - H. TEMPERATURE AT INLET AND OUTLET OF THE PRE-CONVERTER.
  - I. FLOW RATE OF THE FUEL CELL EXHAUST OUTLET.

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

- J. TOTAL REDUCED SULFUR COMPOUNDS (RAW DIGESTER GAS AND TREATED DIGESTER GAS).
  - K. POWER OUTPUT OF THE FUEL CELL.
  - L. BTU CONTENT OF THE TREATED DIGESTER GAS.
  - M. FUEL UTILIZATION OF THE FUEL CELL.
  - N. TREATED DIGESTER GAS FEED RATE TO THE PRE-CONVERTER.  
[RULE 204, RULE 1303-OFFSET, RULE 3004(a)(4)]
16. IF THE OPERATION OF THIS EQUIPMENT RESULTS IN ODOR COMPLAINTS, THE WORK SHALL CEASE AND MITIGATION MEASURES SHALL BE IMPLEMENTED IMMEDIATELY. WORK SHALL NOT RESUME UNTIL THE EMISSIONS CAUSING THE COMPLAINTS ARE MITIGATED AND THE APPROVAL TO RESUME WORK IS RECEIVED FROM THE SCAQMD.  
[RULE 402]
17. THE OWNER OR OPERATOR OF THIS EQUIPMENT SHALL KEEP RECORDS OF OPERATING AND MONITORING DATA, AND TREATMENT MEDIA REPLACEMENT DATES. THESE RECORDS SHALL BE MAINTAINED FOR A MINIMUM OF FIVE YEARS AND MADE AVAILABLE TO SCAQMD PERSONNEL UPON REQUESTS.  
[RULE 3004(a)(4)]

## FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

### PERMIT TO OPERATE

**Permit No. G9939**  
**A/N 503372**

#### **Equipment Description:**

INTERNAL COMBUSTION ENGINE, WAUKESHA, MODEL 9390 GSI, SERIAL NO. C10379/2, NATURAL GAS FIRED WITH LPG AS STANDBY FUEL, 16-CYLINDER, FOUR CYCLE, RICH BURN, TURBOCHARGED, AFTERCOOLED, 1970 BHP, WITH AUTOMATIC AIR-TO-FUEL RATIO CONTROLLER, DRIVING AN EMERGENCY ELECTRIC GENERATOR, VENTED TO A THREE WAY CATALYST, MIRATECH, MODEL NO. EQSY48361X2-18-C4.

#### **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. LPG MAY BE USED IN THE EVENT OF NATURAL GAS CURTAILMENT AND TESTING.  
[RULE 1303(a)(1)-BACT]
4. 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]
5. 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]
6. 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.  
[RULE 1303(a)(1)-BACT]
7. 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]

## FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

8. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN ANY ONE YEAR WHICH INCLUDES NO MORE THAN 50 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING PURPOSES.  
[RULE 1110.2, RULE 1303]
9. OPERATION BEYOND 50 HOURS PER YEAR FOR MAINTENANCE AND TESTING IS ALLOWED ONLY DURING EMERGENCIES RESULTING IN AN INTERRUPTION OF SERVICE OF THE PRIMARY POWER SUPPLY OR DURING STAGE II OR III ELECTRICAL EMERGENCIES DECLARED BY THE ELECTRICAL GRID OPERATOR. OPERATORS ARE ALLOWED TO USE EMERGENCY SPARK-IGNITION ENGINES AS PART OF AN INTERRUPTIBLE ELECTRIC SERVICE PROGRAM.  
[RULE 1303(a)(1)-BACT]
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. 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]
11. THE OPERATOR SHALL COMPLY WITH THE APPLICABLE AREA SOURCE REQUIREMENTS FOR EXISTING STATIONARY RECIPROCATING INTERNAL COMBUSTION ENGINES OF 40 CFR PART 63 SUBPART ZZZZ – NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS FOR RECIPROCATING INTERNAL COMBUSTION ENGINES.  
[40CFR63- SUBPART ZZZZ]

### **Emissions and Requirements:**

12. 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

## FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

### PERMIT TO OPERATE

**Permit No. G25305**  
**A/N 505538**

**Equipment Description:**

BOILER, HURST, MODEL S5-X-125-125W, FIRE TUBE TYPE, DIGESTER GAS OR NATURAL GAS FIRED, 5,400,000 BTU/HR MAXIMUM HEAT INPUT RATE, WITH ULTRA LOW NOX BURNER, POWER FLAME, MODEL LNINVC5-GG-30.

**Conditions:**

3. 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]
4. 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 OR NATURAL GAS ONLY.  
[RULE 204, RULE 1146, RULE 1303]
4. THIS EQUIPMENT SHALL BE OPERATED IN COMPLIANCE WITH ALL PROVISIONS OF RULE 1146.  
[RULE 1146]
5. A NON-RESETTABLE, TOTALIZING FUEL METER SHALL BE INSTALLED AND MAINTAINED IN THE FUEL SUPPLY LINE TO MEASURE AND RECORD THE FUEL USAGE IN CUBIC FEET, FOR EACH TYPE OF FUEL USED.  
[RULE 204, RULE 1303]
6. WHEN IN OPERATION, TOTAL HEAT INPUT FOR THIS EQUIPMENT SHALL NOT EXCEED 5.4 MMBTU/HR. A LOG SHALL BE KEPT INDICATING THE TOTAL HEATING VALUE (BTU/SCF) OF FUEL GAS BURNED IN THIS EQUIPMENT BASED ON THE RECORDED FLOW RATE (SCFM) AND THE LATEST MONTHLY BTU CONTENT READING.  
[RULE 1146, RULE 1303]
7. THIS EQUIPMENT SHALL BE EQUIPPED WITH A CONTROL SYSTEM TO AUTOMATICALLY REGULATE THE COMBUSTION AIR AND FUEL RATE AS THE BOILER LOAD VARIES. THIS AUTOMATIC CONTROL SYSTEM SHALL BE ADJUSTED AND TUNED PERIODICALLY, ACCORDING TO ATTACHMENT I OF RULE 1146.  
[RULE 1146]

## FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

8. THE OWNER OR OPERATOR OF THIS EQUIPMENT SHALL CONDUCT SOURCE TESTS ONCE EVERY FIVE YEARS, UNDER THE FOLLOWING CONDITIONS AND PER RULE 1146:
- A. TESTING SHALL BE CONDUCTED BY AN APPROVED CONTRACTOR UNDER THE SCAQMD LABORATORY APPROVAL PROGRAM AND IN COMPLIANCE WITH SCAQMD RULE 304 (NO CONFLICT OF INTEREST).
  - B. A SOURCE TEST PROTOCOL SHALL BE SUBMITTED TO SCAQMD AND SHALL BE APPROVED BY SCAQMD BEFORE THE TEST COMMENCES. THE PROTOCOL SHALL INCLUDE PROPOSED OPERATING CONDITIONS OF THE EQUIPMENT DURING THE TEST AND DESCRIPTIONS OF ALL SAMPLING AND ANALYTICAL PROCEDURES TO BE USED.
  - C. SOURCE TESTS SHALL BE PERFORMED WHEN THE BOILER IS OPERATING AT NORMAL LOAD FOR EACH FUEL (DIGESTER GAS AND NATURAL GAS). THE SAMPLING TIME SHALL BE FOR A MINIMUM OF 15 CONSECUTIVE MINUTES.
  - D. TWO COPIES OF THE SOURCE TEST RESULTS SHALL BE SUBMITTED TO SCAQMD WITHIN 60 DAYS OF TESTING. THE REPORT SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:
    - I. FUEL FLOW RATE FOR EACH FUEL
    - II. FLUE GAS FLOW RATE FOR EACH FUEL
    - III. OXIDES OF NITROGEN FOR EXHAUST GAS
    - IV. CARBON MONOXIDE FOR EXHAUST GAS
    - V. CARBON DIOXIDE FOR EXHAUST GAS
    - VI. OXYGEN FOR EXHAUST GAS

THE REPORT SHALL PRESENT THE EMISSIONS DATA IN PART PER MILLION (PPMV), ON A DRY BASIS AT 3% O<sub>2</sub> AND POUNDS PER HOUR. THE SOURCE TESTS SHALL BE PERFORMED USING APPROVED DISTRICT METHODS.

[RULE 1146]

9. THE OWNER OR OPERATOR SHALL CHECK NOX EMISSIONS WITH A PORTABLE NOX, CO AND O<sub>2</sub> ANALYZER ACCORDING TO THE SCAQMD APPROVED PROTOCOL FOR RULES 1146 AND 1146.1 AT LEAST MONTHLY OR EVERY 750 UNIT OPERATING HOURS, WHICHEVER OCCURS LATER. IF A UNIT IS IN COMPLIANCE FOR THREE CONSECUTIVE EMISSION CHECKS, WITHOUT ANY ADJUSTMENTS TO THE OXYGEN SENSOR SET POINT, THEN THE UNIT SHALL BE CHECKED QUARTERLY OR EVERY 2,000 UNIT OPERATING HOURS, WHICHEVER OCCURS LATER, UNTIL THERE IS AN EMISSION CHECK INDICATING NONCOMPLIANCE.
- [RULE 1146]

### **Periodic Monitoring:**

10. ALL RECORDS REQUIRED BY THIS PERMIT SHALL BE KEPT AND MAINTAINED FOR A MINIMUM OF FIVE YEARS AND SHALL BE MADE AVAILABLE TO SCAQMD PERSONNEL UPON REQUEST.
- [RULE 1146, RULE 3004(a)]

## FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

### Emissions and Requirements:

11. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
  - PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
  - PM: 0.1 GRAIN/SCF @ 12% CO<sub>2</sub>, RULE 409
  - PM10: 44 LBS/MONTH, RULE 1313
  - CO: 400 PPM @ 3% O<sub>2</sub>, DRY BASIS, RULE 1146
  - CO: 100 PPMV @ 3% O<sub>2</sub>, DRY BASIS FOR DIGESTER GAS FIRING, RULE 1303-BACT
  - CO: 50 PPMV @ 3% O<sub>2</sub>, DRY BASIS FOR NATURAL GAS FIRING, RULE 1303-BACT
  - CO: 314 LBS/MONTH, RULE 1313
  - NO<sub>x</sub>: 30 PPM @ 3% O<sub>2</sub>, DRY BASIS, RULE 1146-UNTIL 1/1/2015
  - NO<sub>x</sub>: 15 PPM @ 3% O<sub>2</sub>, DRY BASIS, RULE 1146, DIGESTER GAS-ON & AFTER 1/1/2015
  - NO<sub>x</sub>: 30 PPMV @ 3% O<sub>2</sub>, DRY BASIS FOR DIGESTER GAS FIRING, RULE 1303-BACT
  - NO<sub>x</sub>: 12 PPMV @ 3% O<sub>2</sub>, DRY BASIS FOR NATURAL GAS FIRING, RULE 1303-BACT
  - NO<sub>x</sub>: 153 LBS/MONTH, RULE 1313
  - VOC: 37 LBS/MONTH, RULE 1313
  - SO<sub>x</sub>: 212 LBS/MONTH, RULE 1313

## FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

### PERMIT TO OPERATE

Permit No. G13149  
A/N 510552

#### Equipment Description:

INTERNAL COMBUSTION ENGINE, NO. 1, CATERPILLAR, MODEL G342 NA HCR, NATURALLY ASPIRATED, RICH BURN, SIX CYLINDERS, FOUR CYCLE, 225 BHP, NATURAL GAS FUELED WITH LIQUID PROPANE GAS (LPG) AS BACK-UP FUEL, SINGLE EXHAUST WITH A MIRATECH, MODEL SP-IQS-12X3-06-EC2, NON-SELECTIVE CATALYTIC CONVERTER, DRIVING AN AERATION BLOWER, AND AN AIR-TO-FUEL RATIO CONTROLLER, ALTRONIC, MODEL NO. EPC-100.

#### 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 USE NATURAL GAS AS FUEL, EXCEPT LPG FUEL SHALL ONLY BE USED DURING NATURAL GAS CURTAILMENT OR DURING PERIODS OF TESTING NOT TO EXCEED 24 HOURS PER YEAR.  
[RULE 1303(a)(1)-BACT]
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 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]
7. A NON-RESETTABLE OPERATIONAL TOTALIZING TIMER 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

8. 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 1110.2]
9. 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]
10. THE CONCENTRATION OF THE FOLLOWING COMPOUNDS MEASURED AT THE OUTLET OF THE ENGINE SHALL NOT EXCEED THE FOLLOWING EFFECTIVE JULY 1, 2011, EXCEPT DURING COLD START-UP WHICH SHALL NOT EXCEED 30 MINUTES OR 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]

### **Periodic Monitoring:**

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, RULE 3004 (a)(4)]
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, RULE 1303(a)(1)-BACT, RULE 3004(a)(4)]
13. 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 1303(a)(1)-BACT, RULE 3004(a)(4)]
14. 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, RULE 3004(a)(4)]

## FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

15. 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, RULE 3004(a)(4)]
16. 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, RULE 3004(a)(4)]
17. THE OPERATOR SHALL INSTALL AND MAINTAIN A TEMPERATURE GAUGE AND RECORDING SYSTEM TO INDICATE ACCURATELY THE TEMPERATURE AT THE INLET OF THE CATALYST.  
[RULE 1303(a)(1)-BACT, RULE 3004(a)(4)]
18. THE OPERATOR SHALL INSTALL AND MAINTAIN A TEMPERATURE GAUGE AND RECORDING SYSTEM TO INDICATE ACCURATELY THE TEMPERATURE AT THE OUTLET OF THE CATALYST.  
[RULE 1303(a)(1)-BACT, RULE 3004(a)(4)]
19. THE TEMPERATURE AT THE OUTLET OF THE CATALYST SHALL NOT EXCEED 1350 DEGREES FAHRENHEIT.  
[RULE 1303(a)(1)-BACT, RULE 3004(a)(4)]
20. 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 1303(a)(1)-BACT, 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:
  - PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
  - CO: 1.5 GRAM/BHP-HR, RULE 1303(a)(1)-BACT
  - CO: 2000 PPMVD AT 15% O<sub>2</sub>, RULE 1110.2
  - NOX: 1.5 GRAM/BHP-HR, RULE 1303(a)(1)-BACT
  - NOX: 45 PPMVD AT 15% O<sub>2</sub>, RULE 1110.2
  - VOC: 1.0 GRAM/BHP-HR, RULE 1303(a)(1)-BACT
  - VOC: 250 PPMVD AT 15% O<sub>2</sub>, RULE 1110.2

## FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

### PERMIT TO OPERATE

**Permit No. G13150  
A/N 510553**

#### **Equipment Description:**

INTERNAL COMBUSTION ENGINE, NO. 2, CATERPILLAR, MODEL G342 NA HCR, NATURALLY ASPIRATED, RICH BURN, SIX CYLINDERS, FOUR CYCLE, 225 BHP, NATURAL GAS FUELED WITH LIQUID PROPANE GAS (LPG) AS BACK-UP FUEL, SINGLE EXHAUST WITH A MIRATECH, MODEL SP-IQS-12X3-06-EC2, NON-SELECTIVE CATALYTIC CONVERTER, DRIVING AN AERATION BLOWER, AND AN AIR-TO-FUEL RATIO CONTROLLER, ALTRONIC, MODEL NO. EPC-100.

#### **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 USE NATURAL GAS AS FUEL, EXCEPT LPG FUEL SHALL ONLY BE USED DURING NATURAL GAS CURTAILMENT OR DURING PERIODS OF TESTING NOT TO EXCEED 24 HOURS PER YEAR.  
[RULE 1303(a)(1)-BACT]
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 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]
7. A NON-RESETTABLE OPERATIONAL TOTALIZING TIMER 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

8. 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 1110.2]
9. 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]
10. THE CONCENTRATION OF THE FOLLOWING COMPOUNDS MEASURED AT THE OUTLET OF THE ENGINE SHALL NOT EXCEED THE FOLLOWING EFFECTIVE JULY 1, 2011, EXCEPT DURING COLD START-UP WHICH SHALL NOT EXCEED 30 MINUTES OR 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]

### **Periodic Monitoring:**

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, RULE 3004 (a)(4)]
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, RULE 1303(a)(1)-BACT, RULE 3004(a)(4)]
13. 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 1303(a)(1)-BACT, RULE 3004(a)(4)]
14. 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, RULE 3004(a)(4)]

## FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

15. 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, RULE 3004(a)(4)]
16. 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, RULE 3004(a)(4)]
17. THE OPERATOR SHALL INSTALL AND MAINTAIN A TEMPERATURE GAUGE AND RECORDING SYSTEM TO INDICATE ACCURATELY THE TEMPERATURE AT THE INLET OF THE CATALYST.  
[RULE 1303(a)(1)-BACT, RULE 3004(a)(4)]
18. THE OPERATOR SHALL INSTALL AND MAINTAIN A TEMPERATURE GAUGE AND RECORDING SYSTEM TO INDICATE ACCURATELY THE TEMPERATURE AT THE OUTLET OF THE CATALYST.  
[RULE 1303(a)(1)-BACT, RULE 3004(a)(4)]
19. THE TEMPERATURE AT THE OUTLET OF THE CATALYST SHALL NOT EXCEED 1350 DEGREES FAHRENHEIT.  
[RULE 1303(a)(1)-BACT, RULE 3004(a)(4)]
20. 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 1303(a)(1)-BACT, 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:
  - PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
  - CO: 1.5 GRAM/BHP-HR, RULE 1303(a)(1)-BACT
  - CO: 2000 PPMVD AT 15% O<sub>2</sub>, RULE 1110.2
  - NOX: 1.5 GRAM/BHP-HR, RULE 1303(a)(1)-BACT
  - NOX: 45 PPMVD AT 15% O<sub>2</sub>, RULE 1110.2
  - VOC: 1.0 GRAM/BHP-HR, RULE 1303(a)(1)-BACT
  - VOC: 250 PPMVD AT 15% O<sub>2</sub>, RULE 1110.2

## FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

### PERMIT TO OPERATE

**Permit No. G13151**  
**A/N 510554**

#### **Equipment Description:**

INTERNAL COMBUSTION ENGINE, NO. 3, CATERPILLAR, MODEL G342 NA HCR, NATURALLY ASPIRATED, RICH BURN, SIX CYLINDERS, FOUR CYCLE, 225 BHP, NATURAL GAS FUELED WITH LIQUID PROPANE GAS (LPG) AS BACK-UP FUEL, SINGLE EXHAUST WITH A MIRATECH, MODEL SP-IQS-12X3-06-EC2, NON-SELECTIVE CATALYTIC CONVERTER, DRIVING AN AERATION BLOWER, AND AN AIR-TO-FUEL RATIO CONTROLLER, ALTRONIC, MODEL NO. EPC-100.

#### **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 USE NATURAL GAS AS FUEL, EXCEPT LPG FUEL SHALL ONLY BE USED DURING NATURAL GAS CURTAILMENT OR DURING PERIODS OF TESTING NOT TO EXCEED 24 HOURS PER YEAR.  
[RULE 1303(a)(1)-BACT]
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 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]
7. A NON-RESETTABLE OPERATIONAL TOTALIZING TIMER 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

8. 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 1110.2]
9. 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]
10. THE CONCENTRATION OF THE FOLLOWING COMPOUNDS MEASURED AT THE OUTLET OF THE ENGINE SHALL NOT EXCEED THE FOLLOWING EFFECTIVE JULY 1, 2011, EXCEPT DURING COLD START-UP WHICH SHALL NOT EXCEED 30 MINUTES OR 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]

### **Periodic Monitoring:**

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, RULE 3004 (a)(4)]
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, RULE 1303(a)(1)-BACT, RULE 3004(a)(4)]
13. 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 1303(a)(1)-BACT, RULE 3004(a)(4)]
14. 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, RULE 3004(a)(4)]

## FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

15. 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, RULE 3004(a)(4)]
16. 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, RULE 3004(a)(4)]
17. THE OPERATOR SHALL INSTALL AND MAINTAIN A TEMPERATURE GAUGE AND RECORDING SYSTEM TO INDICATE ACCURATELY THE TEMPERATURE AT THE INLET OF THE CATALYST.  
[RULE 1303(a)(1)-BACT, RULE 3004(a)(4)]
18. THE OPERATOR SHALL INSTALL AND MAINTAIN A TEMPERATURE GAUGE AND RECORDING SYSTEM TO INDICATE ACCURATELY THE TEMPERATURE AT THE OUTLET OF THE CATALYST.  
[RULE 1303(a)(1)-BACT, RULE 3004(a)(4)]
19. THE TEMPERATURE AT THE OUTLET OF THE CATALYST SHALL NOT EXCEED 1350 DEGREES FAHRENHEIT.  
[RULE 1303(a)(1)-BACT, RULE 3004(a)(4)]
20. 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 1303(a)(1)-BACT, 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:
  - PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
  - CO: 1.5 GRAM/BHP-HR, RULE 1303(a)(1)-BACT
  - CO: 2000 PPMVD AT 15% O<sub>2</sub>, RULE 1110.2
  - NOX: 1.5 GRAM/BHP-HR, RULE 1303(a)(1)-BACT
  - NOX: 45 PPMVD AT 15% O<sub>2</sub>, RULE 1110.2
  - VOC: 1.0 GRAM/BHP-HR, RULE 1303(a)(1)-BACT
  - VOC: 250 PPMVD AT 15% O<sub>2</sub>, RULE 1110.2

## FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

### PERMIT TO OPERATE

Permit No. G25306  
A/N 513835

#### Equipment Description:

ENCLOSED FLARE, 12 MMBTU/HR MAXIMUM HEAT INPUT, 3'-8" W. X 3'-8" L. X 23'-4" H, BEKAERT MODEL CEB 350, WITH 7.5 HP COMBUSTION BLOWER, AUTOMATIC AIR CONTROL SYSTEM, DIGESTER GAS FIRED, WITH DIGESTER AND NATURAL GAS PILOTS, TEMPERATURE CONTROLLER, AUTOMATIC FLARE SHUT DOWN SYSTEM, FLARE FAILURE ALARM, AUTOMATIC RESTART, AND KNOCKOUT VESSEL, EATON, TYPE T.

#### 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. AT LEAST TWO (2) 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 217]
5. A SAMPLING PORT SHALL BE INSTALLED AT THE INLET GAS LINE TO THE FLARE TO ALLOW THE COLLECTION OF A DIGESTER GAS SAMPLE.  
[RULE 217]
6. THE FLARE SHALL BE EQUIPPED WITH AT LEAST ONE TEMPERATURE INDICATOR AND A 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 WITHIN 28 INCHES OF THE MESH BURNER.  
[RULE 1303(a)(1)-BACT, RULE 3004(a)(4)]

## FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

7. WHENEVER THE FLARE IS IN OPERATION, A TEMPERATURE OF NOT LESS THAN 1600 DEGREES FAHRENHEIT AS MEASURED BY AN APPROVED TEMPERATURE INDICATOR SHALL BE MAINTAINED IN THE FLARE STACK, EXCEPT FOR 30 MINUTES DURING START UP AND SHUT DOWN.  
[RULE 1303(a)(1)-BACT, RULE 3004(a)(4)]
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 204, RULE 1303(a)(1)-BACT]
9. THE AUTOMATIC SHUT-DOWN SAFETY SYSTEM SHALL BE TESTED MONTHLY FOR PROPER OPERATION AND THE RESULTS RECORDED.  
[RULE 204]
10. A NON-RESETTABLE, TOTALIZING FLOW AND TIME METER 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 (IN SCFM) BEING BURNED IN THE FLARE.  
[RULE 431.1, RULE 1303(a)(1)-BACT]
11. THE TOTAL VOLUME OF DIGESTER GAS BURNED IN THE FLARE SHALL NOT EXCEED 333 STANDARD CUBIC FEET PER MINUTE.  
[RULE 1303(b)(2)-Offsets]
12. THE HEAT INPUT THROUGH THE FLARE SHALL NOT EXCEED 12 MILLION BTU'S PER HOUR.  
[RULE 1303(b)(2)-Offsets]
13. 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(b)(2)-Offsets]
14. ALL DIGESTER GAS COLLECTED SHALL BE DIRECTED EITHER TO THE FLARE FOR COMBUSTION OR TO A TREATMENT SYSTEM WHICH HAS A VALID PERMIT TO CONSTRUCT OR OPERATE, AS APPLICABLE FROM THE SCAQMD.  
[RULE 204]
15. ALL RECORDING DEVICES SHALL BE SYNCHRONIZED WITH RESPECT TO THE TIME OF DAY.  
[RULE 204]
16. THE FLARE SHALL BE DESIGNED AND OPERATED SO THAT THE FLAME IN THE FLARE REMAINS BELOW THE HEIGHT OF THE FLARES OPERATING THERMOCOUPLE AT ALL TIMES.  
[RULE 204]

## FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

17. 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 EMISSION OF RAW DIGESTER GAS SHALL BE REPORTED TO THE SCAQMD COMPLIANCE MANAGER FOR WASTE MANAGEMENT FACILITIES WITHIN ONE HOUR AFTER OCCURRENCE AND IMMEDIATE REMEDIAL MEASURE SHALL BE UNDER TAKEN TO CORRECT THE PROBLEM AND PREVENT FURTHER EMISSIONS INTO THE ATMOSPHERE.  
[RULE 402, RULE 1303(a)(1)-BACT]

18. THE OWNER OR OPERATOR SHALL CONDUCT PERFORMANCE TESTS EVERY FIVE YEARS, OR AS OTHERWISE APPROVED, IN ACCORDANCE WITH SCAQMD APPROVED TEST PROCEDURES AND FURNISH THE SCAQMD WRITTEN RESULTS OF SUCH PERFORMANCE TESTS WITHIN SIXTY (60) DAYS AFTER TESTING. WRITTEN NOTICE OF THE TEST SHALL BE PROVIDED TO THE SCAQMD TEN (10) DAYS PRIOR TO THE TESTING SO THAT AN OBSERVER MAY BE PRESENT. ALL SOURCE TESTING AND ANALYTICAL METHODS SHALL BE SUBMITTED TO THE SCAQMD FOR APPROVAL AT LEAST SIXTY (60) DAYS PRIOR TO START OF TEST.

THE TEST SHALL INCLUDE, BUT MAY NOT BE LIMITED TO, A TEST OF THE INLET GAS TO THE FLARE AND THE FLARE EXHAUST FOR:

- A. TOTAL NON-METHANE ORGANICS.
- B. OXIDES OF NITROGEN (EXHAUST ONLY)
- C. CARBON MONOXIDE (EXHAUST ONLY)
- D. TOTAL (PM10) PARTICULATES (EXHAUST ONLY)
- E. OXYGEN
- F. NITROGEN
- G. MOISTURE CONTENT
- H. TEMPERATURE
- I. BTU VALUE.

[RULE 204, RULE 1303(b)(2)-Offsets, RULE 1401]

19. ALL RECORDS SHALL BE KEPT FOR A PERIOD OF AT LEAST FIVE (5) YEARS AND SHALL BE MADE AVAILABLE TO SCAQMD PERSONNEL UPON REQUEST.  
[RULE 204]

### **Emissions and Requirements:**

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

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS  
PM: 0.1 GR/SCF, RULE 409  
PM10: 0.0054 GR/DSCF, RULE 1303(a)(1)-BACT, RULE 1303(b)(2)-Offsets  
PM10: 139 LBS/MONTH, RULE 1313  
NOX: 0.025 LBS/MMBTU, RULE 1303(a)(1)-BACT, RULE 1303(b)(2)-Offsets  
NOX: 219 LBS/MONTH, RULE 1313  
VOC: 0.038 LBS/MMBTU, RULE 1303(a)(1)-BACT, RULE 1303(b)(2)-Offsets  
VOC: 336 LBS/MONTH, RULE 1313  
CO: 0.06 LBS/MMBTU, RULE 1303(a)(1)-BACT, RULE 1303(b)(2)-Offsets  
CO: 2000 PPMV, RULE 407  
CO: 526 LBS/MONTH, RULE 1313  
SOx: 285 LBS/MONTH, RULE 1313

## FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

### PERMIT TO OPERATE

Permit No. G22436  
A/N 529142

#### Equipment Description:

INTERNAL COMBUSTION ENGINE, WAUKESHA, MODEL P9390GL, SERIAL NO. C10379/1, NATURAL GAS FIRED, TURBOCHARGED, WATER CONNECTED COOLING, SIXTEEN CYLINDERS, FOUR CYCLE, 2200 BHP, LEAN BURN, PRECHAMBER DESIGN, WITH AN OXIDATION CATALYTIC MUFFLER, DRIVING A 1540 KW EMERGENCY ELECTRICAL GENERATOR.

#### 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 ONLY USE LIQUID PETROLEUM GAS (LPG) AS AN EMERGENCY BACK-UP FUEL FOR THIS EQUIPMENT WHEN NATURAL GAS IS NOT AVAILABLE, OR FOR MAINTENANCE AND TESTING PURPOSES.  
[RULE 1303]
4. 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]
5. 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.  
[RULE 204]
6. 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, RULE 1304(a)(4) MODELING AND OFFSETS EXEMPTIONS, 40CFR63 Subpart ZZZZ]
7. THIS ENGINE SHALL NOT BE OPERATED MORE THAN A TOTAL OF 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN 50 HOURS FOR MAINTENANCE AND PERFORMANCE TESTING.  
[RULE 1110.2, RULE 1303-BACT, RULE 1304(a)(4) – MODELING AND OFFSET EXEMPTION]

## FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

8. OPERATION BEYOND 50 HOURS PER YEAR FOR MAINTENANCE AND TESTING IS ALLOWED ONLY DURING EMERGENCIES RESULTING IN AN INTERRUPTION OF SERVICE OF THE PRIMARY POWER SUPPLY OR DURING STAGE II OR III ELECTRICAL EMERGENCIES DECLARED BY THE ELECTRICAL GRID OPERATOR. OPERATORS ARE ALLOWED TO USE EMERGENCY SPARK-IGNITION ENGINES AS PART OF AN INTERRUPTIBLE ELECTRIC SERVICE PROGRAM.  
[RULE 1303(a)(1)-BACT]
9. 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]
10. OPERATION UNDER A DEMAND RESPONSE PROGRAM/INTERRUPTIBLE ELECTRIC SERVICE PROGRAM SHALL BE COUNTED TOWARDS THE MAINTENANCE AND TESTING HOURS FOR THIS ENGINE.  
[40CFR63 Subpart ZZZZ]
11. 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]
12. 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)

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, RULE 1304(a)(4) – MODELING AND OFFSET EXEMPTION]
13. THE OPERATOR SHALL COMPLY WITH THE APPLICABLE AREA SOURCE REQUIREMENTS FOR EXISTING STATIONARY RECIPROCATING INTERNAL COMBUSTION ENGINES OF 40 CFR PART 63 SUBPART ZZZZ – NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS FOR RECIPROCATING INTERNAL COMBUSTION ENGINES.  
[40CFR63 SUBPART ZZZZ]

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

### **Emissions and Requirements**

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

NOX: 1.5 G/BHP-HR, RULE 1303

VOC: 1.5 G/BHP-HR, RULE 1303

CO: 2.0 G/BHP-HR, RULE 1303

# FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

## RULE 219 EQUIPMENT

### Equipment Description:

RULE 219 EXEMPT EQUIPMENT, ARCHITECTURAL COATINGS

### Emissions And Requirements:

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

VOC: RULE 1113

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

## **RULE 219 EQUIPMENT**

### **Equipment Description:**

RULE 219 EXEMPT EQUIPMENT, HAND WIPING OPERATIONS.

### **Emissions And Requirements:**

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

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

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

### **RULE 219 EQUIPMENT**

**Equipment Description:**

RULE 219 EXEMPT EQUIPMENT, HALON EMISSIONS FROM FIRE EXTINGUISHING EQUIPMENT

**Emissions And Requirements:**

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

HALON: RULE 1418

## **FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DIST**

### **SECTION E: ADMINISTRATIVE CONDITIONS**

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

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

## **FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DIST**

### **SECTION E: ADMINISTRATIVE CONDITIONS**

5. The operator shall not use any equipment having air pollution control device(s) incorporated within the equipment unless the air pollution control device is in full operation. [204]
6. The operator shall maintain records to demonstrate compliance with rules or permit conditions that limit equipment operating parameters, or the type or quantity of material processed. These records shall be made available to AQMD personnel upon request and be maintained for at least five years. [204]
7. The operator shall maintain and operate all equipment to ensure compliance with all emission limits as specified in this facility permit. Compliance with emission limits shall be determined according to the following specifications, unless otherwise specified by AQMD rules or permit conditions: [204]
  - a. For internal combustion engines and gas turbines, measured concentrations shall be corrected to 15 percent stack-gas oxygen content on a dry basis and be averaged over a period of 15 consecutive minutes; [1110.2, 1134]
  - b. For other combustion devices, measured concentrations shall be corrected to 3 percent stack-gas oxygen content on a dry basis and be averaged over a period of 15 consecutive minutes; [1146, 1146.1, 204]
  - c. For non-combustion sources, compliance with emission limits shall be determined and averaged over a period of 60 minutes; [204]
  - d. For the purpose of determining compliance with Rule 407, carbon monoxide (CO) shall be measured on a dry basis and be averaged over 15 consecutive minutes, and sulfur compounds which would exist as liquid or gas at standard conditions shall be calculated as sulfur dioxide (SO<sub>2</sub>) and be averaged over 15 consecutive minutes; [407]
  - e. For the purpose of determining compliance with Rule 409, combustion contaminant emission measurements shall be corrected to 12 percent of carbon dioxide (CO<sub>2</sub>) at standard conditions and averaged over a minimum of 15 consecutive minutes. [409]

## **FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DIST**

### **SECTION E: ADMINISTRATIVE CONDITIONS**

- f. For the purpose of determining compliance with Rule 475, combustion contaminant emission measurements shall be corrected to 3 percent of oxygen (O<sub>2</sub>) at standard conditions and averaged over 15 consecutive minutes or any other averaging time specified by the Executive Officer. [475]
8. The operator shall, when a source test is required by AQMD, provide a source test protocol to AQMD no later than 60 days before the proposed test date. The test shall not commence until the protocol is approved by AQMD. The test protocol shall contain the following information: [204, 304]
  - a. Brief description of the equipment tested.
  - b. Brief process description, including maximum and normal operating temperatures, pressures, throughput, etc.
  - c. Operating conditions under which the test will be performed.
  - d. Method of measuring operating parameters, such as fuel rate and process weight. Process schematic diagram showing the ports and sampling locations, including the dimensions of the ducts and stacks at the sampling locations, and distances of flow disturbances, (e.g. elbows, tees, fans, dampers) from the sampling locations (upstream and downstream).
  - e. Brief description of sampling and analytical methods used to measure each pollutant, temperature, flow rates, and moisture.
  - f. Description of calibration and quality assurance procedures.
  - g. Determination that the testing laboratory qualifies as an "independent testing laboratory" under Rule 304 (conflict of interest).
9. The operator shall submit a report no later than 60 days after conducting a source test, unless otherwise required by AQMD rules or equipment-specific conditions. The report shall contain the following information: [204]
  - a. The results of the source test.

## **FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DIST**

### **SECTION E: ADMINISTRATIVE CONDITIONS**

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

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

**SECTION F: RECLAIM MONITORING AND SOURCE TESTING REQUIREMENTS**

NOT APPLICABLE

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

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

NOT APPLICABLE

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

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

This section consists of a table listing all individual Permits to Construct issued to various equipment at the facility. Each permit will list operating conditions, including periodic monitoring requirements and applicable emission limits and requirements. 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 AT THIS FACILITY:

<b>Application number</b>	<b>Permit number</b>	<b>Equipment description</b>	<b>Page #</b>
466467	-	SEWAGE TREATMENT (>5 MG/D) AEROBIC	4
514066	-	SEWAGE TREATMENT (>5 MG/D) ANAEROBIC	9

**NOTE:** EQUIPMENT LISTED ABOVE 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**

### **FACILITY WIDE 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 H<sub>2</sub>S, 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 SO<sub>2</sub>.  
[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]
5. THE FACILITY SHALL BE OPERATED IN COMPLIANCE WITH ALL APPLICABLE PROVISIONS OF 40 CR 63 SUBPART ZZZZ.  
[40 CFR 63 SUBPART ZZZZ]

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### PERMIT TO CONSTRUCT

**GRANTED AS OF: Nov. 9, 2007**  
**A/N 466467**

#### **Equipment Description:**

WASTEWATER TREATMENT PLANT, 25 MGD CAPACITY, CONSISTING OF THE FOLLOWING:

- I. CONVENTIONAL ACTIVATED SLUDGE PLANT NO. 1, 3 MGD CAPACITY, AEROBIC DIGESTION CONSISTING OF:
  1. LIFT STATION WITH ASSOCIATED PUMPS AND MOTORS.
  2. HEADWORKS WITH RAW SEWAGE PUMPING AND GRINDING SYSTEM, WET WELL AND ASSOCIATED PUMPS.
  3. GRIT REMOVAL CHAMBER, 14'-0" W. X 15'-0" L. X 13'-0" D., WITH A SCREW AUGER AND ASSOCIATED PUMPS.
  4. TWO PRIMARY CLARIFIERS, EACH 15'-0" W. X 65'-0" L. X 10'-0" D. WITH ASSOCIATED PUMPS.
  5. EQUALIZATION BASIN, 1 MILLION GALLON CAPACITY.
  6. TWO AERATION TANKS, EACH 30'-0" W. X 150'-0" L. X 15'-0" D.
  7. THREE SECONDARY CLARIFICATION TANKS, EACH 16'-0" W. X 84'-0" L. X 10'-0" D., WITH ASSOCIATED PUMPS.
  8. SECONDARY SLUDGE WET WELL, 15'-0" W. X 15'-0" L. 15'-0" D. WITH ASSOCIATED PUMPS.
  9. AEROBIC DIGESTER, 30'-0" W. X 150'-0" L. X 15'-0" D.
  10. SEPTAGE RECEIVING SYSTEM WITH A 20,000 GALLON HOLDING TANK.
  11. SLUDGE PUMPING STATION AND ASSOCIATED PUMPS.
  12. AQUA BELT AND POLYMER ADDITION STATION.
  13. TREATED EFFLUENT DISCHARGE SYSTEM WITH FIVE EVAPORATION PERCOLATION PONDS WITH A TOTAL STORAGE VOLUME OF 263 MILLION GALLONS.
  14. TERTIARY FILTER, 10'-0" W. X 20'-0" L.
  15. CHLORINE CONTACT BASIN, 86'-9" W. X 86'-9" L.
  16. TWELVE SLUDGE DRYING BEDS, EACH 100'-0" W. X 160'-0" L.
  
- II. CONVENTIONAL ACTIVATED SLUDGE PLANT NO. 2, 12 MGD CAPACITY, ANAEROBIC CONSISTING OF:
  1. INFLUENT PUMP STATION WITH ASSOCIATED PUMPS AND MOTORS.
  2. HEADWORKS BUILDING WITH BAR SCREENS, ASSOCIATED PUMPS AND CONVEYORS.
  3. GIRT CHAMBERS, THREE TANKS, EACH 18'-0" W. X 11'-4" D.
  4. PRIMARY INFLUENT SPLITTER BOX, 26'-7" W. X 16'-10" L. X 24'-3" D.
  5. THREE PRIMARY CLARIFIERS, EACH 100'-0" DIA. X 14'-0" D.
  6. PRIMARY EFFLUENT SPLITTER BOX, 29'-0" W. X 20'-9" L. X 20'-3" D.
  7. BARDENPHO PROCESS AREA, SECONDARY TREATMENT CONSISTING OF:
    - A. FERMENTATION BASINS, EACH 170,000 GALLONS CAPACITY WITH ASSOCIATED MIXERS.
    - B. PRIMARY DENITRIFICATION BASIN, 1,100,000 GALLONS CAPACITY, WITH ASSOCIATED PUMPS AND BUBBLE AERATION SYSTEM.
    - C. NITRIFICATION BASIN, 3,600,000 GALLONS CAPACITY WITH ASSOCIATED PUMPS AND BUBBLE AERATION SYSTEM.

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- D. TWO SECONDARY DENITRIFICATION BASINS, EACH 500,000 GALLONS WITH ASSOCIATED PUMPS AND BUBBLE AERATION SYSTEM.
  - E. ONE REAERATION BASIN, 140,000 GALLONS WITH ASSOCIATED AERATION BLOWER.
  - 8. THREE SECONDARY CLARIFIERS, 125'-0" DIA. X 10'-0" D.
  - 9. RAS/WAS PUMP STATION WITH ASSOCIATED PUMPS AND GRINDERS.
  - 10. SLUDGE DEWATERING FACILITY WITH THREE BELT PRESSES, EACH 2 METERS, A 150 GALLON POLYMER STORAGE TANK, A 710 CUBIC FEET SLUDGE HOPPER WITH TRUCK LOADOUT, ASSOCIATED PUMPS AND CONVEYORS.
  - 11. ONE SLUDGE DRYING BED, 240'-0" W. X 625'-0" L. X 0'-8" D.
  - 12. ONE SEPTAGE RECEIVING SYSTEM.
- III. CONVENTIONAL ACTIVATED SLUDGE PLANT, NO. 3, 10 MGD, ANAEROBIC, CONSISTING OF:
- 1. AERATION BASIN, 189'-0" W. X 311'-0" L. X 15'-7" D.
  - 2. TWO SECONDARY CLARIFIERS, 125'-0" DIA. X 10'-0" D.
  - 3. STORAGE TANK, FERRIC CHLORIDE.
  - 4. ANAEROBIC DIGESTER, 35'-0" H. X 90'-0" D.
  - 5. STORAGE TANK, DIGESTER GAS, LOW PRESSURE, 7,500 CU. FT.,
  - 6. KNOCKOUT TANK.
  - 7. COMPRESSOR.
  - 8. SLUDGE STORAGE TANK, 1.29 MGAL.
- IV. TERTIARY TREATMENT PLANT, 22 MGD CAPACITY, CONSISTING OF:
- 1. TERTIARY INFLUENT PUMP STATION, 14'-2" W., X 14'-2" L.
  - 2. TWO FLOW EQUALIZATION BASINS, EACH 1,800,000 GALLONS CAPACITY WITH ASSOCIATED MIXERS/AERATORS.
  - 3. TWO FLOW EQUALIZATION BASINS, EACH 4,800,000 GALLONS CAPACITY WITH ASSOCIATED MIXERS/AERATORS.
  - 4. OUT-OF-COMPLIANCE POND, 12,300,000 GALLON CAPACITY.
  - 5. FLASH MIX PUMP STATION WITH A FLASH MIXING PUMP, CHLORINE, ALUM AND POLYMER INJECTION POINTS.
  - 6. FLOCCULATION BASIN, 45,000 GALLONS, CAPACITY.
  - 7. FLOCCULATION BASIN, 87,000 GALLONS, CAPACITY.
  - 8. TWO ALUM AND TWO POLYMER MIX FEED PUMPS.
  - 9. SIX TERTIARY FILTERS, EACH 200 SQUARE FEET, SAND BED TYPE.
  - 10. FIVE TERTIARY FILTERS, EACH 636 SQUARE FEET, ROTARY DISC CLOTH TYPE.
  - 11. FOUR CHLORINE CONTACT BASINS, 110'-0" L. (EA. PASS) X 11'-0" W. (EA. PASS) WITH FIVE PASSES, WITH ASSOCIATED PUMPS.
  - 12. CHLORINE INJECTION/SPLITTER BOX.
  - 13. SO<sub>2</sub> INJECTION BOX.
  - 14. EFFLUENT PUMPING STATION AND ASSOCIATED PUMPS.
  - 15. TREATED EFFLUENT DISCHARGE SYSTEM WITH FIVE EVAPORATION PERCOLATION PONDS WITH A TOTAL STORAGE VOLUME OF 263 MILLION GALLONS.
  - 16. LIQUID ALUM STORAGE TANK, 12'-0" DIA. X 24'-0" H., 18,000 GALLON CAPACITY.
  - 17. POLYMER SOLUTION STORAGE TANK, 8'-0" DIA. X 18'-0" H., 6,000 GALLON CAPACITY.
  - 18. POLYMER EMULSION STORAGE TANK, 3'-0" DIA. X 4'-0" H., 150 GALLON CAPACITY.
  - 19. SODIUM HYDROXIDE STORAGE TANK, 2210 GALLON CAPACITY WITH ASSOCIATED PUMPS.

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**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]
1. 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 MAXIMUM QUANTITY OF WASTEWATER TREATED BY THIS EQUIPMENT SHALL NOT EXCEED 25 MILLION GALLONS IN ANY ONE DAY, EXCEPT DURING WET WEATHER CONDITIONS.  
[RULE 1303]
5. UNLESS IT IS VENTED TO AN AIR POLLUTION CONTROL DEVICE, THE PLANT NO. 1, INFLUENT WET WELL SHALL REMAIN SEALED EXCEPT DURING INSPECTION AND MAINTENANCE. THE OPERATOR SHALL KEEP RECORDS OF MAINTENANCE PERFORMED AT THE WET WELL.  
[RULE 204, RULE 402]
6. IF THE PLANT NO. 1 INFLUENT WET WELL IS NOT VENTED TO AN AIR POLLUTION CONTROL DEVICE, THE FACILITY OPERATOR SHALL CONDUCT H<sub>2</sub>S MONITORING, USING AN ITX MULTI-GAS MONITOR OR EQUIVALENT ELECTROCHEMICAL SENSOR ACCURATE TO 1 PPM, DURING THE INSPECTION AND MAINTENANCE OF THE WET WELL COMPARTMENT. THE MONITOR SHALL BE PROPERLY CALIBRATED BEFORE EACH DAILY USE. THE MONITORING SHALL BE CONDUCTED OUTSIDE THE WET WELL ENTRANCE DOOR AND THE AREA ABOVE THE WET WELL COMPARTMENT. RESULTS OF THE H<sub>2</sub>S MONITORING SHALL BE RECORDED AT A MINIMUM OF 60 MINUTE INTERVALS.  
[RULE 402]
7. WHENEVER THE H<sub>2</sub>S CONCENTRATION MONITORED DURING THE INSPECTION AND MAINTENANCE OF THE PLANT NO. 1 INFLUENT WET WELL COMPARTMENT EXCEEDS DETECTION LIMITS OF THE H<sub>2</sub>S MONITORING DEVICE RELATIVE TO BACKGROUND CONCENTRATIONS, THE WET WELL INSPECTION/MAINTENANCE EVENT SHALL BE DISCONTINUED AND THE WET WELL DOOR SHALL BE CLOSED.  
[RULE 402]
8. THE TOTAL SULFUR COMPOUNDS OF THE FUEL GAS (LESS THAN NATURAL GAS) BURNED AT THIS FACILITY, CALCULATED AS HYDROGEN SULFIDE, SHALL NOT EXCEED 5 POUNDS PER DAY.  
[RULE 431.1]

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9. THE TOTAL SULFUR COMPOUNDS OF THE FUEL GAS (LESS THAN NATURAL GAS) BURNED AT THIS FACILITY, CALCULATED AS HYDROGEN SULFIDE, SHALL BE DETERMINED AT A FREQUENCY AND BY METHODS WHICH ARE APPROVED BY THE EXECUTIVE OFFICER.  
[RULE 431.1]
10. A CONTINUOUS FLOW INDICATOR/TOTALIZING AND RECORDING SYSTEM SHALL BE INSTALLED AND MAINTAINED TO MEASURE AND RECORD THE DIGESTER GAS PRODUCED BY THE ANAEROBIC DIGESTION PROCESS.  
[RULE 431.1]
11. ALL DIGESTER GAS PRODUCED BY THE ANAEROBIC DIGESTION PROCESS SHALL BE STORED, COMBUSTED, OR TREATED BY EQUIPMENT WHICH IS ADEQUATELY SIZED TO HANDLE THE TOTAL GAS FLOWS AND WHICH HAVE VALID PERMITS TO CONSTRUCT/OPERATE. RAW DIGESTER GAS SHALL NOT BE RELEASED TO THE ATMOSPHERE.  
[RULE 204]
12. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS THE HEADWORKS, GRIT CHAMBERS, PRIMARY INFLUENT SPLITTER BOX, PRIMARY CLARIFIERS, PRIMARY SCUM PIT, PRIMARY EFFLUENT SPLITTER BOX, SLUDGE DEWATERING BUILDING, SEPTAGE RECEIVING STATION AND SCUM DECANT PUMP STATION IS VENTED TO AN AIR POLLUTION CONTROL SYSTEM WHICH IS IN FULL USE AND HAS A VALID PERMIT TO OPERATE BY THE SCAQMD.  
[RULE 204, RULE 402]
13. PRIOR TO COMMENCING CONSTRUCTION OF THE FOLLOWING EQUIPMENT, EMWD SHALL SUBMIT IN WRITING THE FOLLOWING SPECIFICATIONS AND SHALL OBTAIN SCAQMD APPROVAL:
  - A. FERRIC CHLORIDE STORAGE TANK, VOLUME AND DIMENSIONS.
  - B. ANAEROBIC DIGESTER TANK, VOLUME AND DIMENSIONS.
  - C. DIGESTER GAS STORAGE TANK, WORKING PRESSURE, VOLUME, AND DIMENSION.
  - D. BIOGAS MOISTURE KNOCKOUT TANK, PARTICULATE REMOVAL EFFICIENCY, VOLUME AND DIMENSIONS.
  - E. BIOGAS COMPRESSOR, HORSEPOWER, RATED CAPACITY.[RULE 204]
14. MODIFICATION/CONSTRUCTION OF THIS EQUIPMENT HAS BEEN ESTIMATED TO TAKE MORE THAN ONE YEAR. IF MORE THAN ONE YEAR IS NEEDED TO COMPLETE CONSTRUCTION, THE EMWD SHALL SUBMIT A WRITTEN REQUEST FOR AND OBTAIN AN EXTENSION OF TIME TO CONSTRUCT FROM THE EXECUTIVE OFFICER ON AN ANNUAL-BASIS UNTIL SUCH TIME AS CONSTRUCTION IS COMPLETED AND THE EQUIPMENT IS PLACED INTO OPERATION. WITH EACH AFOREMENTIONED WRITTEN REQUEST FOR EXTENSION, VERIFIABLE DATA SHALL BE SUBMITTED TO THE EXECUTIVE OFFICER THAT CONSTRUCTION PROGRESS HAS BEEN MADE.  
[RULE 204]
15. WITHIN ONE YEAR OF COMPLETION OF CONSTRUCTION, EMWD SHALL SUBMIT AS-BUILT SPECIFICATION AND DRAWINGS.  
[RULE 204]

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

**Periodic Monitoring:**

17. THE FACILITY OWNER OR OPERATOR SHALL MEASURE AND RECORD THE QUANTITY OF WASTEWATER TREATED BY THIS EQUIPMENT.  
[RULE 1303, RULE 3004(a)(4)]

## FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

### PERMIT TO CONSTRUCT

**GRANTED AS OF: June 27, 2012**  
**A/N 514066**

#### **Equipment Description:**

ALTERATION OF APPLICATION NO. 466467, WASTEWATER TREATMENT PLANT, 25 MGD CAPACITY, CONSISTING OF THE FOLLOWING:

- I. CONVENTIONAL ACTIVATED SLUDGE PLANT NO. 1, 3 MGD CAPACITY, AEROBIC DIGESTION CONSISTING OF:
  1. LIFT STATION WITH ASSOCIATED PUMPS AND MOTORS.
  2. HEADWORKS WITH RAW SEWAGE PUMPING AND GRINDING SYSTEM, WET WELL AND ASSOCIATED PUMPS.
  3. GRIT REMOVAL CHAMBER, 14'-0" W. X 15'-0" L. X 13'-0" D., WITH A SCREW AUGER AND ASSOCIATED PUMPS.
  4. TWO PRIMARY CLARIFIERS, EACH 15'-0" W. X 65'-0" L. X 10'-0" D. WITH ASSOCIATED PUMPS.
  5. EQUALIZATION BASIN, 1 MILLION GALLON CAPACITY.
  6. TWO AERATION TANKS, EACH 30'-0" W. X 150'-0" L. X 15'-0" D.
  7. THREE SECONDARY CLARIFICATION TANKS, EACH 16'-0" W. X 84'-0" L. X 10'-0" D., WITH ASSOCIATED PUMPS.
  8. SECONDARY SLUDGE WET WELL, 15'-0" W. X 15'-0" L. 15'-0" D. WITH ASSOCIATED PUMPS.
  9. AEROBIC DIGESTER, 30'-0" W. X 150'-0" L. X 15'-0" D.
  10. SEPTAGE RECEIVING SYSTEM WITH A 20,000 GALLON HOLDING TANK.
  11. SLUDGE PUMPING STATION AND ASSOCIATED PUMPS.
  12. AQUA BELT AND POLYMER ADDITION STATION.
  13. TREATED EFFLUENT DISCHARGE SYSTEM WITH FIVE EVAPORATION PERCOLATION PONDS WITH A TOTAL STORAGE VOLUME OF 263 MILLION GALLONS.
  14. TERTIARY FILTER, 10'-0" W. X 20'-0" L.
  15. CHLORINE CONTACT BASIN, 86'-9" W. X 86'-9" L.
  16. TWELVE SLUDGE DRYING BEDS, EACH 100'-0" W. X 160'-0" L.
  
- II. CONVENTIONAL ACTIVATED SLUDGE PLANT NO. 2, 12 MGD CAPACITY, ANAEROBIC CONSISTING OF:
  1. INFLUENT PUMP STATION WITH ASSOCIATED PUMPS AND MOTORS.
  2. HEADWORKS BUILDING WITH BAR SCREENS, ASSOCIATED PUMPS AND CONVEYORS.
  3. GIRT CHAMBERS, THREE TANKS, EACH 18'-0" W. X 11'-4" D.
  4. PRIMARY INFLUENT SPLITTER BOX, 26'-7" W. X 16'-10" L. X 24'-3" D.
  5. THREE PRIMARY CLARIFIERS, EACH 100'-0" DIA. X 14'-0" D.
  6. PRIMARY EFFLUENT SPLITTER BOX, 29'0" W. X 20'-9" L. X 20'-3" D.
  7. BARDENPHO PROCESS AREA, SECONDARY TREATMENT CONSISTING OF:
    - A. FERMENTATION BASINS, EACH 170,000 GALLONS CAPACITY WITH ASSOCIATED MIXERS.
    - B. PRIMARY DENITRIFICATION BASIN, 1,100,000 GALLONS CAPACITY, WITH ASSOCIATED PUMPS AND BUBBLE AERATION SYSTEM.

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- C. NITRIFICATION BASIN, 3,600,000 GALLONS CAPACITY WITH ASSOCIATED PUMPS AND BUBBLE AERATION SYSTEM.
  - D. TWO SECONDARY DENITRIFICATION BASINS, EACH 500,000 GALLONS WITH ASSOCIATED PUMPS AND BUBBLE AERATION SYSTEM.
  - E. ONE REAERATION BASIN, 140,000 GALLONS WITH ASSOCIATED AERATION BLOWER.
  - 8. THREE SECONDARY CLARIFIERS, 125'-0" DIA. X 10'-0" D.
  - 9. RAS/WAS PUMP STATION WITH ASSOCIATED PUMPS AND GRINDERS.
  - 10. SLUDGE DEWATERING FACILITY WITH THREE BELT PRESSES, EACH 2 METERS, A 150 GALLON POLYMER STORAGE TANK, A 710 CUBIC FEET SLUDGE HOPPER WITH TRUCK LOADOUT, ASSOCIATED PUMPS AND CONVEYORS.
  - 11. ONE SLUDGE DRYING BED, 240'-0" W. X 625'-0" L. X 0'-8" D.
  - 12. ONE SEPTAGE RECEIVING SYSTEM.
- III. CONVENTIONAL ACTIVATED SLUDGE PLANT, NO. 3, 10 MGD, ANAEROBIC, CONSISTING OF:
- 1. AERATION BASIN, 189'-0" W. X 311'-0" L. X 15'-7" D.
  - 2. TWO SECONDARY CLARIFIERS, 125'-0" DIA. X 10'-0" D.
  - 3. STORAGE TANK, FERRIC CHLORIDE.
  - 4. ANAEROBIC DIGESTER, 35'-0" H. X 90'-0" D.
  - 5. STORAGE TANK, DIGESTER GAS, LOW PRESSURE, 7,500 CU. FT.,
  - 6. KNOCKOUT TANK.
  - 7. COMPRESSOR.
  - 8. SLUDGE STORAGE TANK, 1.29 MGAL.
- IV. TERTIARY TREATMENT PLANT, 22 MGD CAPACITY, CONSISTING OF:
- 1. TERTIARY INFLUENT PUMP STATION, 14'-2" W., X 14'-2" L.
  - 2. TWO FLOW EQUALIZATION BASINS, EACH 1,800,000 GALLONS CAPACITY WITH ASSOCIATED MIXERS/AERATORS.
  - 3. TWO FLOW EQUALIZATION BASINS, EACH 4,800,000 GALLONS CAPACITY WITH ASSOCIATED MIXERS/AERATORS.
  - 4. OUT-OF-COMPLIANCE POND, 12,300,000 GALLON CAPACITY.
  - 5. FLASH MIX PUMP STATION WITH A FLASH MIXING PUMP, CHLORINE, ALUM AND POLYMER INJECTION POINTS.
  - 6. FLOCCULATION BASIN, 45,000 GALLONS, CAPACITY.
  - 7. FLOCCULATION BASIN, 87,000 GALLONS, CAPACITY.
  - 8. TWO ALUM AND TWO POLYMER MIX FEED PUMPS.
  - 9. SIX TERTIARY FILTERS, EACH 200 SQUARE FEET, SAND BED TYPE.
  - 10. FIVE TERTIARY FILTERS, EACH 636 SQUARE FEET, ROTARY DISC CLOTH TYPE.
  - 11. FOUR CHLORINE CONTACT BASINS, 110'-0" L. (EA. PASS) X 11'-0" W. (EA. PASS) WITH FIVE PASSES, WITH ASSOCIATED PUMPS.
  - 12. CHLORINE INJECTION/SPLITTER BOX.
  - 13. SO<sub>2</sub> INJECTION BOX.
  - 14. EFFLUENT PUMPING STATION AND ASSOCIATED PUMPS.
  - 15. TREATED EFFLUENT DISCHARGE SYSTEM WITH FIVE EVAPORATION PERCOLATION PONDS WITH A TOTAL STORAGE VOLUME OF 263 MILLION GALLONS.
  - 16. LIQUID ALUM STORAGE TANK, 12'-0" DIA. X 24'-0" H., 18,000 GALLON CAPACITY.
  - 17. POLYMER SOLUTION STORAGE TANK, 8'-0" DIA. X 18'-0" H., 6,000 GALLON CAPACITY.
  - 18. POLYMER EMULSION STORAGE TANK, 3'-0" DIA. X 4'-0" H., 150 GALLON CAPACITY.
  - 19. SODIUM HYDROXIDE STORAGE TANK, 2210 GALLON CAPACITY WITH ASSOCIATED PUMPS.

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BY THE ADDITION OF:

1. CENTRIFUGE, CENTRISYS, MODEL CS10-4.01. [II. CONVENTIONAL ACTIVATED SLUDGE PLANT NO. 2, ITEM NO. 10]
2. STORAGE TANK, FERRIC CHLORIDE. [III. CONVENTIONAL ACTIVATED SLUDGE PLANT NO. 3, ITEM NO. 3]
3. TWO ANAEROBIC DIGESTERS, 35'-0" H. X 90'-0" D. [III. CONVENTIONAL ACTIVATED SLUDGE PLANT NO. 3, ITEM NO. 4]
4. ONE ALUM AND ONE POLYMER MIX FEED PUMPS. [IV. TERTIARY TREATMENT PLANT, ITEM NO. 8]
5. ONE TERTIARY FILTER, 636 SQUARE FEET, ROTARY DISC CLOTH TYPE. [IV. TERTIARY TREATMENT PLANT, ITEM NO. 10]

BY THE REMOVAL OF:

1. TERTIARY FILTER, 10'-0" W. X 20'-0" L. [I. CONVENTIONAL ACTIVATED SLUDGE PLANT NO. 1, ITEM NO. 14]
2. FOUR SLUDGE DRYING BEDS, EACH 100'-0"W .X 160'-0" L. [I. CONVENTIONAL ACTIVATED SLUDGE PLANT NO. 1, ITEM NO. 16]

AND BY INCREASING THE TERTIARY TREATMENT PLANT [NO. IV] CAPACITY FROM 22 MGD TO 30 MGD.

**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 MAXIMUM QUANTITY OF WASTEWATER TREATED BY THIS EQUIPMENT SHALL NOT EXCEED 25 MILLION GALLONS IN ANY ONE DAY, EXCEPT DURING WET WEATHER CONDITIONS.  
[RULE 1303]
5. UNLESS IT IS VENTED TO AN AIR POLLUTION CONTROL DEVICE, THE PLANT NO. 1, INFLUENT WET WELL SHALL REMAIN SEALED EXCEPT DURING INSPECTION AND MAINTENANCE. THE OPERATOR SHALL KEEP RECORDS OF MAINTENANCE PERFORMED AT THE WET WELL.  
[RULE 204, RULE 402]

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6. IF THE PLANT NO. 1 INFLUENT WET WELL IS NOT VENTED TO AN AIR POLLUTION CONTROL DEVICE, THE FACILITY OPERATOR SHALL CONDUCT H<sub>2</sub>S MONITORING, USING AN ITX MULTI-GAS MONITOR OR EQUIVALENT ELECTROCHEMICAL SENSOR ACCURATE TO 1 PPM, DURING THE INSPECTION AND MAINTENANCE OF THE WET WELL COMPARTMENT. THE MONITOR SHALL BE PROPERLY CALIBRATED BEFORE EACH DAILY USE. THE MONITORING SHALL BE CONDUCTED OUTSIDE THE WET WELL ENTRANCE DOOR AND THE AREA ABOVE THE WET WELL COMPARTMENT. RESULTS OF THE H<sub>2</sub>S MONITORING SHALL BE RECORDED AT A MINIMUM OF 60 MINUTE INTERVALS.  
[RULE 402]
7. WHENEVER THE H<sub>2</sub>S CONCENTRATION MONITORED DURING THE INSPECTION AND MAINTENANCE OF THE PLANT NO. 1 INFLUENT WET WELL COMPARTMENT EXCEEDS DETECTION LIMITS OF THE H<sub>2</sub>S MONITORING DEVICE RELATIVE TO BACKGROUND CONCENTRATIONS, THE WET WELL INSPECTION/MAINTENANCE EVENT SHALL BE DISCONTINUED AND THE WET WELL DOOR SHALL BE CLOSED.  
[RULE 402]
8. THE TOTAL SULFUR COMPOUNDS OF THE FUEL GAS (LESS THAN NATURAL GAS) BURNED AT THIS FACILITY, CALCULATED AS HYDROGEN SULFIDE, SHALL NOT EXCEED 5 POUNDS PER DAY.  
[RULE 431.1]
9. THE TOTAL SULFUR COMPOUNDS OF THE FUEL GAS (LESS THAN NATURAL GAS) BURNED AT THIS FACILITY, CALCULATED AS HYDROGEN SULFIDE, SHALL BE DETERMINED AT A FREQUENCY AND BY METHODS WHICH ARE APPROVED BY THE EXECUTIVE OFFICER.  
[RULE 431.1]
10. A CONTINUOUS FLOW INDICATOR/TOTALIZING AND RECORDING SYSTEM SHALL BE INSTALLED AND MAINTAINED TO MEASURE AND RECORD THE DIGESTER GAS PRODUCED BY THE ANAEROBIC DIGESTION PROCESS.  
[RULE 431.1]
11. ALL DIGESTER GAS PRODUCED BY THE ANAEROBIC DIGESTION PROCESS SHALL BE STORED, COMBUSTED, OR TREATED BY EQUIPMENT WHICH IS ADEQUATELY SIZED TO HANDLE THE TOTAL GAS FLOWS AND WHICH HAVE VALID PERMITS TO CONSTRUCT/OPERATE. RAW DIGESTER GAS SHALL NOT BE RELEASED TO THE ATMOSPHERE.  
[RULE 204]
12. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS THE HEADWORKS, GRIT CHAMBERS, PRIMARY INFLUENT SPLITTER BOX, PRIMARY CLARIFIERS, PRIMARY SCUM PIT, PRIMARY EFFLUENT SPLITTER BOX, SLUDGE DEWATERING BUILDING, SEPTAGE RECEIVING STATION AND SCUM DECANT PUMP STATION ARE VENTED TO AN AIR POLLUTION CONTROL SYSTEM WHICH IS IN FULL USE AND HAS A VALID PERMIT TO OPERATE BY THE SCAQMD.  
[RULE 204, RULE 402]

## FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DISTRICT

13. MODIFICATION/CONSTRUCTION OF THIS EQUIPMENT HAS BEEN ESTIMATED TO TAKE MORE THAN ONE YEAR. IF MORE THAN ONE YEAR IS NEEDED TO COMPLETE CONSTRUCTION, THE EMWD SHALL SUBMIT A WRITTEN REQUEST FOR AND OBTAIN AN EXTENSION OF TIME TO CONSTRUCT FROM THE EXECUTIVE OFFICER ON AN ANNUAL-BASIS UNTIL SUCH TIME AS CONSTRUCTION IS COMPLETED AND THE EQUIPMENT IS PLACED INTO OPERATION. WITH EACH AFOREMENTIONED WRITTEN REQUEST FOR EXTENSION, VERIFIABLE DATA SHALL BE SUBMITTED TO THE EXECUTIVE OFFICER THAT CONSTRUCTION PROGRESS HAS BEEN MADE.  
[RULE 204]
14. WITHIN ONE YEAR OF COMPLETION OF CONSTRUCTION, EMWD SHALL SUBMIT AS-BUILT SPECIFICATION AND DRAWINGS.  
[RULE 204]
15. DAILY RECORDS SHALL BE KEPT TO SHOW COMPLIANCE WITH THE ABOVE CONDITIONS FOR A PERIOD OF AT LEAST TWO YEARS AND SHALL BE MADE AVAILABLE TO SCAQMD PERSONNEL UPON REQUEST.  
[RULE 204]

### **Periodic Monitoring:**

16. THE FACILITY OWNER OR OPERATOR SHALL MEASURE AND RECORD THE QUANTITY OF WASTEWATER TREATED BY THIS EQUIPMENT.  
[RULE 1303, RULE 3004(a)(4)]

## **FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DIST**

### **SECTION I: PLANS AND SCHEDULES**

This section lists all plans approved by AQMD for the purposes of meeting the requirements of applicable AQMD rules.

NONE

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

# FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DIST

## SECTION J: AIR TOXICS [40CFR 63SubpartZZZZ 03-09-2011]

### NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS: STATIONARY RECIPROCATING INTERNAL COMBUSTION ENGINES

The owner/operator of existing emergency stationary Reciprocating Internal Combustion Engines (RICE) located at an area source of hazardous air pollutant (HAP) emissions shall comply with the applicable requirements of 40 CFR 63 Subpart ZZZZ including but not limited to the following:

1. The owner/operator shall comply with the applicable requirements as specified in 63.6603 including but not limited to the following:

#### **Table 2d to Subpart ZZZZ of Part 63—Requirements for Existing Stationary RICE Located at Area Sources of HAP Emissions**

As stated in §§63.6603 and 63.6640, you must comply with the following requirements for existing stationary RICE located at area sources of HAP emissions:

For each . . .	You must meet the following requirement, except during periods of startup . . .	During periods of startup you must . . .
4. Emergency stationary CI RICE and black start stationary CI RICE. <sup>2</sup>	a. Change oil and filter every 500 hours of operation or annually, whichever comes first; <sup>1</sup>	
	b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; and	
	c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.	
5. Emergency stationary SI RICE; black start stationary SI RICE. <sup>2</sup>	a. Change oil and filter every 500 hours of operation or annually, whichever comes first; <sup>1</sup> b. Inspect spark plugs every 1,000 hours of operation or annually, whichever comes first; and c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.	

<sup>1</sup>Sources have the option to utilize an oil analysis program as described in §63.6625(i) in order to extend the specified oil change requirement in Table 2d of this subpart.

<sup>2</sup>If an emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the management practice requirements on the schedule required in Table 2d of this subpart, or if performing the management practice on the required schedule would otherwise pose an unacceptable risk under Federal, State, or local law, the management practice can be delayed until the emergency is over or the unacceptable risk under Federal, State, or local law

# FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DIST

## SECTION J: AIR TOXICS [40CFR 63SubpartZZZZ 03-09-2011]

has abated. The management practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under Federal, State, or local law has abated. Sources must report any failure to perform the management practice on the schedule required and the Federal, State or local law under which the risk was deemed unacceptable.

2. The owner/operator shall comply with the applicable general requirements as specified in 63.6605.
3. The owner/operator shall comply with the applicable monitoring, installation, collection, operation, and maintenance requirements specified in 63.6625.
4. The owner/operator shall demonstrate continuous compliance with the applicable emission limitations and operating limitations specified in 63.6640 including but not limited to the following:
  - (a) You must demonstrate continuous compliance with each emission limitation and operating limitation according to methods specified in Table 6 to this subpart.

**Table 6 to Subpart ZZZZ of Part 63—Continuous Compliance With Emission Limitations, Operating Limitations, Work Practices, and Management Practices**

As stated in §63.6640, you must continuously comply with the emissions and operating limitations and work or management practices as required by the following:

For each . . .	Complying with the requirement to . . .	You must demonstrate continuous compliance by . . .
existing emergency and black start stationary RICE located at an area source of HAP	a. Work or Management practices	i. Operating and maintaining the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions; or ii. Develop and follow your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

(b) You must report each instance in which you did not meet each emission limitation or operating limitation in Table 2d to this subpart that apply to you. These instances are deviations from the emission and operating limitations in this subpart. These deviations must be reported according to the requirements in §63.6650.

(c) you must operate the emergency stationary RICE according to the requirements in paragraphs (i) through (iii) of this section. Any operation other than emergency operation, maintenance and

## FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DIST

### SECTION J: AIR TOXICS [40CFR 63SubpartZZZZ 03-09-2011]

testing, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (i) through (iii) of this section, is prohibited. If you do not operate the engine according to the requirements in paragraphs (i) through (iii) of this section, the engine will not be considered an emergency engine under this subpart and will need to meet all requirements for non-emergency engines.

(i) There is no time limit on the use of emergency stationary RICE in emergency situations.

(ii) You may operate your emergency stationary RICE for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency RICE beyond 100 hours per year.

(iii) You may operate your emergency stationary RICE up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing. The 50 hours per year for non-emergency situations cannot be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity; except that owners and operators may operate the emergency engine for a maximum of 15 hours per year as part of a demand response program if the regional transmission organization or equivalent balancing authority and transmission operator has determined there are emergency conditions that could lead to a potential electrical blackout, such as unusually low frequency, equipment overload, capacity or energy deficiency, or unacceptable voltage level. The engine may not be operated for more than 30 minutes prior to the time when the emergency condition is expected to occur, and the engine operation must be terminated immediately after the facility is notified that the emergency condition is no longer imminent. The 15 hours per year of demand response operation are counted as part of the 50 hours of operation per year provided for non-emergency situations. The supply of emergency power to another entity or entities pursuant to financial arrangement is not limited by this paragraph (iii), as long as the power provided by the financial arrangement is limited to emergency power.

5. The owner/operator shall comply with the applicable record keeping requirements specified in 63.6655 and 63.6660.

## **FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DIST**

### **SECTION K: TITLE V Administration**

#### **GENERAL PROVISIONS**

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

#### **Permit Renewal and Expiration**

3. (A) Except for solid waste incineration facilities subject to standards under section 129(e) of the Clean Air Act, this permit shall expire five years from the date that this Title V permit is issued. The operator's right to operate under this permit terminates at midnight on this date, unless the facility is protected by an application shield in accordance with Rule 3002(b), due to the filing of a timely and complete application for a Title V permit renewal, consistent with Rule 3003. [3004(a)(2), 3004(f)]  
  
(B) A Title V permit for a solid waste incineration facility combusting municipal waste subject to standards under Section 129(e) of the Clean Air Act shall expire 12 years from the date of issuance unless such permit has been renewed pursuant to this regulation. These permits shall be reviewed by the Executive Officer at least every five years from the date of issuance. [3004(f)(2)]
4. To renew this permit, the operator shall submit to the Executive Officer an application for renewal at least 180 days, but not more than 545 days, prior to the expiration date of this permit. [3003(a)(6)]

#### **Duty to Provide Information**

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

#### **Payment of Fees**

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

## **FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DIST**

### **SECTION K: TITLE V Administration**

#### **Reopening for Cause**

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

#### **COMPLIANCE PROVISIONS**

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

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

## **FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DIST**

### **SECTION K: TITLE V Administration**

9. The operator shall allow the Executive Officer or authorized representative, upon presentation of appropriate credentials to:
  - (A) Enter the operator's premises where emission-related activities are conducted, or records are kept under the conditions of this permit;
  - (B) Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
  - (C) Inspect at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
  - (D) Sample or monitor at reasonable times, substances or parameters for the purpose of assuring compliance with the facility permit or regulatory requirements. [3004(a)(10)(B)]
  
10. All terms and conditions in this permit, including any provisions designed to limit a facility's potential to emit, are enforceable by the EPA Administrator and citizens under the federal Clean Air Act, unless the term or condition is designated as not federally enforceable. Each day during any portion of which a violation occurs is a separate offense. [3004(g)]
  
11. A challenge to any permit condition or requirement raised by EPA, the operator, or any other person, shall not invalidate or otherwise affect the remaining portions of this permit. [3007(b)]
  
12. The filing of any application for a permit revision, revocation, or termination, or a notification of planned changes or anticipated non-compliance does not stay any permit condition. [3004(a)(7)(D)]
  
13. It shall not be a defense for a person in an enforcement action, including those listed in Rule 3002(c)(2), that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit, except as provided for in "Emergency Provisions" of this section. [3004(a)(7)(H)]

## **FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DIST**

### **SECTION K: TITLE V Administration**

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

## FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DIST

### SECTION K: TITLE V Administration EMERGENCY PROVISIONS

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

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

## **FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DIST**

### **SECTION K: TITLE V Administration RECORDKEEPING PROVISIONS**

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

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

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

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

### **REPORTING PROVISIONS**

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

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

## **FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DIST**

### **SECTION K: TITLE V Administration**

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

## **FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DIST**

### **SECTION K: TITLE V Administration**

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

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

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

### **PERIODIC MONITORING**

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

## FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DIST

### SECTION K: TITLE V Administration

#### *FACILITY RULES*

*This facility is subject to the following rules and regulations*

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

<b>RULE SOURCE</b>	<b>Adopted/Amended Date</b>	<b>FEDERAL Enforceability</b>
RULE 104	1-9-1976	Federally enforceable
RULE 109	5-2-2003	Federally enforceable
RULE 1110.2	2-1-2008	Federally enforceable
RULE 1110.2	9-7-2012	Non federally enforceable
RULE 1113	6-3-2011	Non federally enforceable
RULE 1113	7-13-2007	Federally enforceable
RULE 1122	10-1-2004	Federally enforceable
RULE 1122	5-1-2009	Non federally enforceable
RULE 1146	11-17-2000	Federally enforceable
RULE 1146	9-5-2008	Non federally enforceable
RULE 1146.2	1-7-2005	Non federally enforceable
RULE 1146.2	5-5-2006	Federally enforceable
RULE 1171	2-1-2008	Federally enforceable
RULE 1171	5-1-2009	Non federally enforceable
RULE 1179	3-6-1992	Federally enforceable
RULE 118	12-7-1995	Non federally enforceable
RULE 1303	5-10-1996	Federally enforceable
RULE 1303(a)(1)-BACT	12-6-2002	Non federally enforceable
RULE 1303(a)(1)-BACT	5-10-1996	Federally enforceable
RULE 1303(b)(1)-Modeling	12-6-2002	Non federally enforceable
RULE 1303(b)(1)-Modeling	5-10-1996	Federally enforceable
RULE 1303(b)(2)-Offset	12-6-2002	Non federally enforceable

## FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DIST

### SECTION K: TITLE V Administration

<b>RULE SOURCE</b>	<b>Adopted/Amended Date</b>	<b>FEDERAL Enforceability</b>
RULE 1303(b)(2)-Offset	5-10-1996	Federally enforceable
RULE 1304(a)-Modeling and Offset Exemption	6-14-1996	Federally enforceable
RULE 1304(c)-Offset Exemption	6-14-1996	Federally enforceable
RULE 1401	9-10-2010	Non federally enforceable
RULE 1415	12-3-2010	Non federally enforceable
RULE 1418	9-10-1999	Non federally enforceable
RULE 1470	5-4-2012	Non federally enforceable
RULE 204	10-8-1993	Federally enforceable
RULE 217	1-5-1990	Federally enforceable
RULE 219	5-3-2013	Non federally enforceable
RULE 219	9-4-1981	Federally enforceable
RULE 3002	11-14-1997	Federally enforceable
RULE 3002	11-5-2010	Non federally enforceable
RULE 3003	11-14-1997	Federally enforceable
RULE 3003	11-5-2010	Non federally enforceable
RULE 3004(a)(4)-Periodic Monitoring	12-12-1997	Federally enforceable
RULE 3005	11-14-1997	Federally enforceable
RULE 3005	11-5-2010	Non federally enforceable
RULE 3007	10-8-1993	Federally enforceable
RULE 301	6-1-2012	Non federally enforceable
RULE 304	6-1-2012	Non federally enforceable
RULE 306	6-1-2012	Non federally enforceable
RULE 401	11-9-2001	Non federally enforceable
RULE 401	3-2-1984	Federally enforceable
RULE 402	5-7-1976	Non federally enforceable
RULE 404	2-7-1986	Federally enforceable
RULE 407	4-2-1982	Federally enforceable
RULE 408	5-7-1976	Federally enforceable
RULE 409	8-7-1981	Federally enforceable
RULE 430	7-12-1996	Non federally enforceable

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### SECTION K: TITLE V Administration

<b>RULE SOURCE</b>	<b>Adopted/Amended Date</b>	<b>FEDERAL Enforceability</b>
RULE 431.1	6-12-1998	Federally enforceable
RULE 431.2	5-4-1990	Federally enforceable
RULE 431.2	9-15-2000	Non federally enforceable
RULE 461	4-6-2012	Non federally enforceable
RULE 461	6-3-2005	Federally enforceable
RULE 701	6-13-1997	Federally enforceable
40CFR 60 Subpart JJJJ	1-18-2008	Federally enforceable
40CFR 63SubpartZZZZ	3-9-2011	Federally enforceable
40CFR 68 - Accidental Release Prevention	5-24-1996	Federally enforceable
40CFR 82 Subpart F	5-14-1993	Federally enforceable

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

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

NONE

## **FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DIST**

### **APPENDIX B: RULE EMISSION LIMITS [RULE 1113 06-03-2011]**

- (1) Except as provided in paragraphs (c)(3), (c)(4), and designated coatings averaged under (c)(6) of Rule 1113, no person shall supply, sell, offer for sale, market, manufacture, blend, repackage, apply, store at a worksite, or solicit the application of any architectural coating within the District:
  - (A) That is listed in the Table of Standards 1 and contains VOC (excluding any colorant added to tint bases) in excess of the corresponding VOC limit specified in the table, after the effective date specified; or
  - (B) That is not listed in the Table of Standards 1, and contains VOC (excluding any colorant added to tint bases) in excess of 250 grams of VOC per liter of coating (2.08 pounds per gallon), less water, less exempt compounds, until January 1, 2014, at which time the limit drops to 50 grams of VOC per liter of coating, less water, less exempt compounds (0.42 pounds per gallon).
- (2) No person within the District shall add colorant at the point of sale that is listed in the Table of Standards 2 and contains VOC in excess of the corresponding VOC limit specified in the Table of Standards 2, after the effective date specified.

## FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DIST

### APPENDIX B: RULE EMISSION LIMITS [RULE 1113 06-03-2011]

#### TABLE OF STANDARDS 1 VOC LIMITS

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

COATING CATEGORY	Ceiling Limit <sup>1</sup>	Current Limit <sup>2</sup>	Effective Date		
			7/1/08	1/1/12	1/1/14
Bond Breakers		350			
Clear Wood Finishes		275			
Varnish	350	275			
Sanding Sealers	350	275			
Lacquer		275			
Concrete-Curing Compounds		100			
Concrete-Curing Compounds For Roadways and Bridges <sup>3</sup>		350			
Concrete Surface Retarder		250			50
Driveway Sealer		100		50	
Dry-Fog Coatings		150			50
Faux Finishing Coatings					
Clear Topcoat		350		200	
Decorative Coatings		350			100
Glazes		350			
Japan		350			
Trowel Applied Coatings		350		150	50
Fire-Proofing Coatings		350			150
Flats	250	50	50		
Floor Coatings	100	50			
Form Release Compound		250			100
Graphic Arts (Sign) Coatings		500			150
Industrial Maintenance (IM) Coatings	420	100			
High Temperature IM Coatings		420			
Non-Sacrificial Anti-Graffiti Coatings		100			
Zinc-Rich IM Primers	340	100			
Magnesite Cement Coatings		450			
Mastic Coatings		300			100
Metallic Pigmented Coatings	500	500			150
Multi-Color Coatings		250			
Nonflat Coatings	150	50			
Pre-Treatment Wash Primers		420			
Primers, Sealers, and Undercoaters	200	100			
Reactive Penetrating Sealers		350			
Recycled Coatings		250			
Roof Coatings	250	50			
Roof Coatings, Aluminum		100			

## FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DIST

### APPENDIX B: RULE EMISSION LIMITS [RULE 1113 06-03-2011]

Roof Primers, Bituminous	350	350		
Rust Preventative Coatings	400	100		
Stone Consolidant		450		
Sacrificial Anti-Graffiti Coatings		100		50
Shellac				
Clear		730		
Pigmented		550		
Specialty Primers	350	100		
Stains		100		

## FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DIST

### APPENDIX B: RULE EMISSION LIMITS [RULE 1113 06-03-2011]

COATING CATEGORY	Ceiling Limit <sup>1</sup>	Current Limit <sup>2</sup>	Effective Date		
			7/1/08	1/1/12	1/1/14
Stains, Interior	250	250			
Swimming Pool Coatings					
Repair		340			
Other		340			
Traffic Coatings		100			
Waterproofing Sealers	250	100			
Waterproofing Concrete/Masonry Sealers	400	100			
Wood Preservatives		350			

1. The specified ceiling limits are applicable to products sold under the Averaging Compliance Option.
2. The specified limits remain in effect unless revised limits are listed in subsequent columns in the Table of Standards.
3. Does not include compounds used for curbs and gutters, sidewalks, islands, driveways and other miscellaneous concrete areas.

#### TABLE OF STANDARDS 1 (cont.) VOC LIMITS

##### Grams of VOC Per Liter of Material

COATING	Limit
Low-Solids Coating	120

#### TABLE OF STANDARDS 2 VOC LIMITS FOR COLORANTS

##### Grams of VOC Per Liter of Colorant Less Water and Less Exempt Compounds

COLORANT	Limit <sup>4</sup>
Architectural Coatings, excluding IM Coatings	50
Solvent-Based IM	600
Waterborne IM	50

4. Effective January 1, 2014.

## **FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DIST**

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

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

## FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DIST

### APPENDIX B: RULE EMISSION LIMITS [RULE 1113 07-13-2007] TABLE OF STANDARDS VOC LIMITS

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

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

## FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DIST

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

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

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

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

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

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

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

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

**Grams of VOC Per Liter of Material**

COATING	Limit
Low-Solids Coating	120

## FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DIST

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

(1) Solvent Requirements

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

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

## FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DIST

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

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

## FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DIST

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

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

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

## FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DIST

### APPENDIX B: RULE EMISSION LIMITS [RULE 1171 05-01-2009]

(1) Solvent Requirements

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

	<b>CURRENT LIMITS*</b>	<b>EFFECTIVE 1/1/2010</b>
<b>SOLVENT CLEANING ACTIVITY</b>	<b>VOC g/l (lb/gal)</b>	<b>VOC g/l (lb/gal)</b>
(A) Product Cleaning During Manufacturing Process Or Surface Preparation For Coating, Adhesive, Or Ink Application		
(i) General	25 (0.21)	
(ii) Electrical Apparatus Components & Electronic Components	100 (0.83)	
(iii) Medical Devices & Pharmaceuticals	800 (6.7)	
(B) Repair and Maintenance Cleaning		
(i) General	25 (0.21)	
(ii) Electrical Apparatus Components & Electronic Components	100 (0.83)	

## FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DIST

### APPENDIX B: RULE EMISSION LIMITS [RULE 1171 05-01-2009]

	<b>CURRENT LIMITS*</b>	<b>EFFECTIVE 1/1/2010</b>
<b>SOLVENT CLEANING ACTIVITY (cont.)</b>	<b>VOC g/l (lb/gal)</b>	<b>VOC g/l (lb/gal)</b>
(iii) Medical Devices & Pharmaceuticals		
(A) Tools, Equipment, & Machinery	800 (6.7)	
(B) General Work Surfaces	600 (5.0)	
(C) Cleaning of Coatings or Adhesives Application Equipment	25 (0.21)	
(D) Cleaning of Ink Application Equipment		
(i) General	25 (0.21)	
(ii) Flexographic Printing	25 (0.21)	
(iii) Gravure Printing		
(A) Publication	100 (0.83)	
(B) Packaging	25 (0.21)	
(iv) Lithographic (Offset) or Letter Press Printing		
(A) Roller Wash, Blanket Wash, & On-Press Components	100 (0.83)	

## FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DIST

### APPENDIX B: RULE EMISSION LIMITS [RULE 1171 05-01-2009]

	<b>CURRENT LIMITS*</b>	<b>EFFECTIVE 1/1/2010</b>
<b>SOLVENT CLEANING ACTIVITY (cont.)</b>	<b>VOC g/l (lb/gal)</b>	<b>VOC g/l (lb/gal)</b>
(B) Removable Press Components	25 (0.21)	
(v) Screen Printing	100 (0.83)	
(vi) Ultraviolet Ink/ Electron Beam Ink Application Equipment (except screen printing)	650 (5.4)	100 (0.83)
(vii) Specialty Flexographic Printing	100 (0.83)	
(E) Cleaning of Polyester Resin Application Equipment	25 (0.21)	

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

## FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DIST

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

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

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

**TABLE 404(a)**

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

## FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DIST

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

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

## FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DIST

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

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