

FACILITY PERMIT TO OPERATE ORANGE COUNTY SANITATION DISTRICT

PERMIT TO OPERATE

Permit No. TBD
A/N 512830

Equipment Description:

STORAGE TANK, FIXED ROOF, ID NO. 10ITNK037 (PI HEADWORKS), HYDROCHLORIC ACID, 12' - 0" DIA. X 10' - 0" H., 8,000-GALLON CAPACITY AND VENTING THROUGH A 55-GALLON DRUM CONTAINING (50% SULPHASORB XL AND 50% SAFETYSORB BLEND OR EQUAL) ACTIVATED CARBON.

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 STORE HYDROCHLORIC ACID WITH CONCENTRATION OF 38 WEIGHT PERCENT OR LESS ONLY.
[RULE 204]
4. THE MAXIMUM AMOUNT OF HYDROCHLORIC ACID FILLED INTO THIS STORAGE TANK SHALL NOT EXCEED 6,000 GALLONS PER MONTH.
[RULE 1303 (b) (1) - OFFSET]
5. THIS EQUIPMENT SHALL NOT BE FILLED UNLESS THE VENT GASES PASS THROUGH A 55-GALLON DRUM CONTAINING ACTIVATED CARBON.
[RULE 1303 (a) (1)-BACT]
6. THE OPERATOR SHALL REPLACE THE CARBON PER MANUFACTURER'S RECOMMENDATION.
[RULE 204]
7. RECORDS REQUIRED BY THIS PERMIT SHALL BE KEPT AND MAINTAINED FOR AT LEAST FIVE YEARS AND MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 204]

FACILITY PERMIT TO OPERATE ORANGE COUNTY SANITATION DISTRICT

PERMIT TO OPERATE

Permit No. TBD
A/N 512831

Equipment Description:

STORAGE TANK, FIXED ROOF, ID NO. 111TNK100 (P1 PRIMARY), HYDROCHLORIC ACID, 6' - 0" DIA. X 11' - 0" H., 2,000-GALLON CAPACITY AND VENTING THROUGH A 55-GALLON DRUM CONTAINING (50% SULPHASORB XL AND 50% SAFETYSORB BLEND OR EQUAL) ACTIVATED CARBON.

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 STORE HYDROCHLORIC ACID WITH CONCENTRATION OF 38 WEIGHT PERCENT OR LESS ONLY.
[RULE 204]
4. THE MAXIMUM AMOUNT OF HYDROCHLORIC ACID FILLED INTO THIS STORAGE TANK SHALL NOT EXCEED 6,000 GALLONS PER MONTH.
[RULE 1303 (b) (1) - OFFSET]
5. THIS EQUIPMENT SHALL NOT BE FILLED UNLESS THE VENT GASES PASS THROUGH A 55-GALLON DRUM CONTAINING ACTIVATED CARBON.
[RULE 1303 (a) (1)-BACT]
6. THE OPERATOR SHALL REPLACE THE CARBON PER MANUFACTURER'S RECOMMENDATION.
[RULE 204]
7. RECORDS REQUIRED BY THIS PERMIT SHALL BE KEPT AND MAINTAINED FOR AT LEAST FIVE YEARS AND MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 204]

FACILITY PERMIT TO OPERATE ORANGE COUNTY SANITATION DISTRICT

PERMIT TO CONSTRUCT

A/N 520793
Pending Approval

Equipment Description:

ODOR CONTROL SCRUBBER SYSTEM FOR NEW SLUDGE THICKENING AND DEWATERING FACILITY (JOB NO. P1-101), CONSISTING OF:

1. FOUL AIR EXHAUST DUCT FROM NEW SLUDGE THICKENING AND DEWATERING BUILDING, TOTAL 40,000 CFM.
2. THREE (3) EXHAUST BLOWERS, EACH 20,000 CFM.
3. THREE (3) CHEMICAL SCRUBBERS, EACH 3-STAGE, SIEMENS MODEL LP-6500 OR DUALL MODEL PMTD OR EQUIVALENT, VERTICAL, PACKED BED TYPE, FIRST AND FINAL STAGE MIST ELIMINATORS, WITH OPTIONAL OXIDATION REDUCTION POTENTIAL (ORP) PROBES AND CONTROLLERS, THREE (3) SUMPS, SCRUBBER SOLUTION RECIRCULATION PUMPS AND FLOW METERS, AUTOMATIC CHEMICAL FEED METERING PUMP AND MAKEUP WATER SYSTEM, EACH WITH EXHAUST STACK, 3' DIA. X 33' - 9" H., AND WITH NO RAIN CAP.
4. ASSOCIATED SULFURIC ACID, SODIUM HYDROXIDE, AND SODIUM HYPOCHLORITE STORAGE TANKS.
5. OPTIONAL TWO (2) DUAL-BED ADSORBERS, IN PARALLEL, EACH SIEMENS MODEL RJC-1300-D OR DUALL MODEL CA-132DB OR EQUIVALENT, GRANULAR ACTIVATED CARBON, 20, 000 SCFM, EACH WITH A EXHAUST STACK, 3' DIA. X 22' - 6" H., AND WITH NO RAIN CAP.

CONDITIONS:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS EQUIPMENT SHALL BE OPERATED BY PERSONNEL PROPERLY TRAINED IN ITS OPERATION.
[RULE 204]
4. THIS PERMIT SHALL EXPIRE IF CONSTRUCTION OF THE EQUIPMENT IS NOT COMPLETED WITHIN ONE YEAR FROM THE DATE OF ISSUANCE OF THIS PERMIT UNLESS AN EXTENSION IS GRANTED BY THE EXECUTIVE OFFICER.
[RULE 205]

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5. AT LEAST 30 DAYS PRIOR TO INSTALLATION OF THE EQUIPMENT, ORANGE COUNTY SANITATION DISTRICT (OCSD) SHALL PROVIDE TO SCAQMD FINAL DESIGN DRAWINGS, PROCESS AND FLOW DIAGRAM, CONTROLS, EQUIPMENT SPECIFICATIONS (MAKE, MODEL, SIZE AND MAXIMUM CAPACITY). DEVIATIONS FROM THE ABOVE DESCRIPTION AND PROPOSED DESIGN AFFECTING EQUIPMENT PERFORMANCE OR EMISSIONS SHALL BE APPROVED IN WRITING BY THE AQMD.
[RULE 204]
6. A SUFFICIENT NUMBER OF SCRUBBERS AND CARBON ADSORBERS (IF CONSTRUCTED) SHALL BE IN OPERATION WHEN THE BASIC EQUIPMENT ARE IN OPERATION TO MAINTAIN EXHAUST OUTLET H₂S AND NH₃ CONCENTRATIONS IN COMPLIANCE WITH THE LIMITS AS SPECIFIED IN THIS PERMIT EXCEPT DURING UNFORSEEN AND ROUTINE MAINTENANCE WORK OR POWER OUTAGE IN THE PLANT THE REQUIRES THE EQUIPMENT TO BE SHUTDOWN FOR A PERIOD NOT TO EXCEED 10 HOURS PER INCIDENT PER EQUIPMENT AND 50 HOURS PER YEAR PER EQUIPMENT. A LOG OF SHUTDOWN DATE, DURATION, AND REASON FOR THE SHUTDOWN SHALL BE MAINTAINED.
[RULE 402]
7. WHEN IN OPERATION, NO MORE THAN TWO (2) MULTI-STAGE CHEMICAL SCRUBBERS SHALL BE IN OPERATION.
[RULE 204]
8. A FLOW METER SHALL BE INSTALLED AND MAINTAINED AT THE INLET STREAM TO EACH OF THE MULTI-STAGE CHEMICAL SCRUBBER TO INDICATE THE TOTAL AIR FLOW RATE IN CUBIC FEET PER MINUTE (CFM). THE MEASURED AIR FLOW RATE FOR EACH SCRUBBER SHALL NOT EXCEED 20,000 CFM. IN CASE A PRESSURE SENSOR DEVICE(S) IS USED IN PLACE OF THE FLOW METER(S), A CONVERSION CHART SHALL BE MAINTAINED TO INDICATE THE CORRESPONDENT FLOW RATE(S), IN CFM, TO THE PRESSURE READING.
[RULE 204]
9. A PRESSURE DIFFERENTIAL GAUGE INDICATING THE PRESSURE DROP ACROSS EACH SCRUBBER PACKING BED SHALL BE INSTALLED AND MAINTAINED. THE PRESSURE DROP ACROSS EACH PACKING BED SHALL BE MAINTAINED WHEN THE SCRUBBER IS IN OPERATION PER MANUFACTURER'S RECOMMENDATION.
[RULE 204]
10. A PH METER SHALL BE INSTALLED AND MAINTAINED, FOR EACH SCRUBBER STAGE (SUMP SOLUTION), TO INDICATE PH OF THE SCRUBBING SOLUTION. THE PH OF THE SCRUBBER SOLUTION FOR EACH SCRUBBER STAGE SHALL BE RECORDED ONCE PER DAY AND SHALL BE PROPERLY MAINTAINED TO ENSURE COMPLIANCE WITH THE EXHAUST LIMITS SPECIFIED IN CONDITION NO. 20.
[RULE 204]
11. IF THE ORP IS CONSTRUCTED AND IS IN OPERATION, THE OXIDATION REDUCTION POTENTIAL (ORP) VALUE FOR EACH STAGE OF THE SCRUBBING SOLUTION SHALL BE MAINTAINED PER MANUFACTURER'S RECOMMENDATION.
[RULE 204]

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12. A FLOW METER SHALL BE INSTALLED TO INDICATE SCRUBBING SOLUTION FLOW RATE FOR EACH SCRUBBER. THE SCRUBBING SOLUTION FLOW RATE (GPM) FOR EACH STAGE SHALL BE MAINTAINED AS PER MANUFACTURER'S RECOMMENDATION.
[RULE 204]
13. WHEN IN OPERATION, FOR EACH SCRUBBER THE FOUL-AIR FLOW RATE, SCRUBBING SOLUTION FLOW RATE, PH, AND PRESSURE DIFFERENTIAL ACROSS THE SCRUBBER PACKING BED SHALL BE MONITORED AND RECORDED AT LEAST ONCE A DAY FOR THE FIRST MONTH OF OPERATION AND WEEKLY THEREAFTER.
[RULE 204]
14. A FLOW METER SHALL BE INSTALLED AND MAINTAINED AT THE INLET STREAM TO EACH CARBON ADSORBER TO INDICATE THE EXHAUST AIR (FROM CHEMICAL SCRUBBER UNITS) TREATED, IN CUBIC FEET PER MINUTE (SCFM). IN CASE A PRESSURE SENSOR DEVICE IS USED IN PLACE OF THE FLOW METER, A CONVERSION CHART SHALL BE MAINTAINED TO INDICATE THE CORRESPONDING FLOW RATE, IN CFM, TO THE PRESSURE READING.
[RULE 204]
15. MAXIMUM EXHAUST AIR FLOW TO BE TREATED BY EACH OF THE CARBON ADSORBER SHALL NOT EXCEED 20,000 SCFM.
[RULE 204]
16. WITHIN 180 DAYS AFTER INITIAL START-UP, ORANGE COUNTY SANITATION DISTRICT (OCS D) SHALL CONDUCT SOURCE TESTS TO DETERMINE EMISSIONS FROM THE ODOR CONTROL SYSTEM DESCRIBED IN THIS PERMIT AS INSTALLED; IN ACCORDANCE WITH THE AQMD APPROVED SOURCE TESTS PROTOCOL. A TEST PROTOCOL INCLUDING ALL SOURCE TESTING AND ANALYTICAL METHODS SHALL BE SUBMITTED TO THE AQMD, WASTE MANAGEMENT & BULK TERMINALS PERMITTING TEAM, FOR APPROVAL AT LEAST 60 DAYS PRIOR TO START OF THE TESTS. NOTICE SHALL BE PROVIDED TO THE AQMD 10 DAYS PRIOR TO THE TESTING SO THAT AN OBSERVER MAY BE PRESENT. WRITTEN RESULTS OF SUCH PERFORMANCE TESTS SHALL BE SUBMITTED WITHIN 60 DAYS AFTER TESTING. THE TESTS SHALL DETERMINE THE EMISSIONS TO ATMOSPHERE FROM THE ODOR CONTROL SYSTEM FOR:
 - A. AMMONIA AND HYDROGEN SULFIDE (H₂S), (LBS/HR AND PPMV) – EXHAUST TO ATMOSPHERE.
 - B. CARBON DIOXIDE, OXYGEN AND NITROGEN
 - C. MOISTURE CONTENT, TEMPERATURE AND EXHAUST FLOW RATE.[RULE 204, 1401]
17. ADEQUATE NUMBER OF SAMPLING PORTS WITH ITS SAFE ACCESS SHALL BE INSTALLED AND MAINTAINED FOR THE ODOR CONTROL UNIT AND EXHAUST STACKS IN ACCORDANCE WITH SCAQMD'S RULE 217.
[RULE 217]

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18. WHEN IN OPERATION, A PRESSURE DIFFERENTIAL GAUGE INDICATING THE PRESSURE DROP (INCHES OF WATER COLUMN) ACROSS EACH CARBON BED SHALL BE INSTALLED AND MAINTAINED. THE PRESSURE DROP ACROSS EACH CARBON BED SHALL BE MAINTAINED AS PER MANUFACTURER'S SPECIFICATION AND RECOMMENDATION. PRESSURE DROP READING SHALL BE RECORDED AT LEAST ONCE A DAY FOR THE FIRST MONTH OF OPERATION AND WEEKLY THEREAFTER.
[RULE 204]
19. AMMONIA (NH₃) AND HYDROGEN SULFIDE (H₂S) CONCENTRATIONS (PPMV), AT THE EXHAUST STACKS, SHALL BE MONITORED USING HANDHELD DEVICES (USING LOW RANGE CONCENTRATION DETECTION LIMIT) OR OTHER APPROVED METHODS AT LEAST ONCE A DAY WHEN EQUIPMENT IS IN OPERATION.
[RULE 204]
20. EMISSIONS FROM THIS EQUIPMENT SHALL NOT EXCEED THE FOLLOWING.
- | | |
|------------------|--------|
| H ₂ S | 1 PPMV |
| NH ₃ | 5 PPMV |
- IF MORE THAN ONE READING IS MADE IN A DAY, THE DAILY AVERAGE CONCENTRATION OF THE READINGS SHALL NOT EXCEED THE LIMITS SPECIFIED ABOVE.
[RULE 402]
21. ACTIVATED CARBON IN THE ADSORBER SHALL BE REPLACED WITH FRESH ONE AS PER MANUFACTURER'S RECOMMENDATION TO MAINTAIN DESIRED CONTROL EFFICIENCY, RECORDS FOR CARBON REPLACEMENT EVENTS, WITH DATE, TYPE AND QUANTITY SHALL BE MAINTAINED ON FILE.
[RULE 204]
22. SPENT CARBON REMOVED FROM THIS SYSTEM SHALL BE MAINTAINED OR STORED IN CLOSED CONTAINERS PRIOR TO REMOVAL FROM SITE.
[RULE 204]
23. RECORDS TO DEMONSTRATE COMPLIANCE WITH THE CONDITIONS OF THIS PERMIT SHALL BE KEPT AND MAINTAINED FOR AT LEAST FIVE YEARS AND MADE AVAILABLE TO THE SCAQMD PERSONNEL UPON REQUEST.
[RULE 204]

FACILITY PERMIT TO OPERATE ORANGE COUNTY SANITATION DISTRICT

PERMIT TO CONSTRUCT

A/N 520794
Pending Approval

Equipment Description:

ALTERATION OF THE EXISTING SEWAGE TREATMENT PLANT (216 MGD), COVERED BY PERMIT TO CONSTRUCT APPLICATION NO. 453210 (AND EXISTING P/O F66565), CONSISTING OF:

1. HEADWORKS STATION NO. 1 WITH TWO GRIT CHAMBERS, 28'- 0" L. X 20'- 0" W. X 14'- 0" D., TWO SPLITTER BOXES, 15'- 0" L. X 4'- 0" W. X 7'- 6" D., TWO GRIT CLASSIFIERS, AND ASSOCIATED PUMPS AND BLOWER.
2. HEADWORKS STATION NO. 2 WITH FIVE GRIT CHAMBERS, 38'- 0" L. X 20'- 0" W. X 14'- 0" D., THREE SPLITTER BOXES, 15'- 0" L. X 8'- 0" W. X 15'- 0" D., FOUR BAR SCREENS WITH A RAKE ASSEMBLY, EIGHT GATE OPERATORS, FIVE SPLITTER BOX WEIR GATE OPERATORS, AND ASSOCIATED PUMPS, BLOWERS AND COMPRESSOR.
3. FIFTEEN PRIMARY BASINS CONSISTING OF TWO 188'- 0" L. X 40'- 0" W. X 9'- 0" D. RECTANGULAR BASINS WITH CONCRETE AND ALUMINUM COVERS, THREE 140'- 0" DIA. X 9'- 0" D. CIRCULAR BASINS WITH ALUMINUM GEODESIC DOME COVERS, TEN 10'- 0" L. X 195'- 0" W. X 10'- 0" D. RECTANGULAR BASINS WITH CONCRETE AND ALUMINUM COVERS AND ASSOCIATED PUMPS AND BLOWERS.
4. FOUR TRICKLING FILTERS, EACH 180' DIA. X 6'- 0" D., WITH TWO GATE OPERATORS AND ASSOCIATED PUMPS.
5. SECONDARY CLARIFIERS CONSISTING OF ONE 140'- 0" DIA. X 9'- 0" D. AND TWENTY-FOUR 150'- 0" L. X 40'- 0" W. X 10'- 0" D. WITH ASSOCIATED PUMPS.
6. ACTIVATED SLUDGE PLANT PRIMARY EFFLUENT PUMP STATION WITH ASSOCIATED PUMPS.
7. TEN AERATION BASINS, EACH 275'- 0" L. X 45'- 0" W. X 15'- 0" D. WITH ASSOCIATED BLOWERS.
8. SIX SLUDGE THICKENERS, EACH 40'- 0" DIA. X 8'- 0" D., WITH ASSOCIATED SWEEP DRIVER AND CONVEYORS.
9. TWELVE DIGESTER TANK CONSISTING OF FOUR 90'- 0" DIA. X 30'- 0" D, EACH 208,780 CUBIC FEET CAPACITY, EIGHT 110'- 0" DIA. X 30'- 0" D, EACH APPROXIMATELY 330,430 CUBIC FEET CAPACITY WITH ASSOCIATED PUMPS AND COMMINUTERS (GRINDERS). EACH DIGESTER IN OPERATION EQUIPPED WITH TWO PASSIVE CARBON ADSORBERS (55 GALLONS OR LESS VOLUME) USING NO MECHANICAL VENTILATION.
10. THIRTY-TWO DIGESTER CLEANING BEDS, 58'- 0" L. X 56'- 0" W. X 3'- 2" D.
11. DIGESTER GAS STORAGE TANKS, 25,000 CUBIC FEET CAPACITY, 42'- 0" DIA. X 33'- 6" H. WITH THREE COMPRESSORS.

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12. SLUDGE PROCESSING STATION WITH TWO GRINDERS, EIGHT DEWATERING FILTER PRESSES, TRANSFER PUMP HOPPERS, AUGERS, STORAGE HOPPERS AND A TRUCK LOAD-OUT HOPPER.
 - 13.* SIXTEEN PRIMARY BASINS, 195'- 0" L. X 40'- 0" W. X 10'- 0" D., EACH WITH CONCRETE COVERS AND 6 MGD AVERAGE CAPACITY AND ASSOCIATED PUMPS AND BLOWERS.
 - 14.* FOUR EXISTING TRICKLING FILTERS (ITEM NO. 4 ABOVE) REPLACED WITH TWO NEW TRICKLING FILTERS, EACH 166' DIA. X 20' - 0" MEDIA DEPTH, AND ASSOCIATED PUMPS. EACH NEW TRICKLING FILTER WITH TWO EXHAUST STACKS, EACH STACK 40' HIGH, AND WITH A TOTAL AIR FLOW RATE OF 25,000 CFM PER TRICKLING FILTER.
 - 15.* ONE EXISTING SECONDARY CLARIFIER (ITEM NO. 5 ABOVE) REPLACED WITH TWO NEW SECONDARY CLARIFIERS CONSISTING OF 175' - 0" DIA. X 15' - 0" D. WITH ASSOCIATED PUMPS.
- * Construction for the above items 13, 14, and 15 has been completed (under A/N 407071).

BY THE ADDITION OF: (OCSD JOB NO. P1-82 ACTIVATED SLUDGE PLANT REHABILITATION) UNDER A/N 432418.

16. TWO NEW SECONDARY CLARIFIERS, EACH 150'- 0" L. X 40'- 0" W. X 10' - 0" D.

BY THE REMOVAL OF:

10. THIRTY-TWO DIGESTER CLEANING BEDS, 58'- 0" L. X 56'- 0" W. X 3' -2" D.(SEE ITEM 10 ABOVE)

AND BY THE ADDITION OF:

17. NEW SECONDARY ACTIVATED SLUDGE FACILITY 2 (OCSD JOB NO. P1-102), AND NEW SLUDGE DEWATERING BEDS (OCSD JOB NO. P1-106, CONSTRUCTION COMPLETED AND CURRENTLY IN OPERATION) UNDER A/N 453210,
 - I. SIX AERATION BASINS (NOS. 11 THROUGH 16), COVERED, EACH 227' - 2" L. X 45' - 0" W. X 26' - 0" D., WITH ASSOCIATED AERATION BLOWERS, DIFFUSERS, MIXERS, AND PUMPS, AND VENTING THROUGH SIX STACKS, EACH 7'- 11" H., AND 10,000 SCFM.
 - II. SIX SECONDARY CLARIFIERS (NOS. 27, 29, 31, 32, 33, AND 34), UNCOVERED, EACH 155' DIA. X 16' SIDE WATER D. , WITH ASSOCIATED RETURN ACTIVATED SLUDGE (RAS), WASTE ACTIVATED SLUDGE (WAS), AND SECONDARY SCUM PUMPS.
 - III. SODIUM HYPOCHLORITE (NaOCl) SOLUTION SYSTEM ADDITION (TO THE EXISTING BLEACH SYSTEM) FOR CHLORINATION OF THE TREATED EFFLUENT, RETURN ACTIVATED SLUDGE (RAS), WASTE ACTIVATED SLUDGE (WAS), AND SURFACE WASTE.

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AND BY THE REPLACEMENT/UPGRADE OF: (OCSD JOB NO. P1-101- NEW SLUDGE THICKENING AND DEWATERING FACILITY, NEW A/N 520794),

18. REPLACE TWO GRINDERS, EIGHT DEWATERING FILTER PRESSES (LISTED UNDER ITEM NO. 12)
19. UPGRADE, REPLACE OR MODIFY;
 - I. SLUDGE CONVEYANCE AND PUMPING SYSTEM
 - II. BIOSOLIDS STORAGE AND LOAD-OUT SYSTEM
 - III. CHEMICAL FEED SYSTEM
 - IV. VENTILATION SYSTEM AND VARIOUS OTHER ELECTRICAL AND CONTROL SYSTEMS.
 - V. MODIFY EXISTING TRUCKLOADING FACILITY TO IMPROVE ODOR CONTROL AND TO ALLOW STORAGE AND CONVEYANCE OF A DRIER DEWATERED CAKE/BIOSOLIDS.

AND BY THE ADDITION OF: (OCSD JOB NO. P1-101- NEW SLUDGE THICKENING AND DEWATERING FACILITY, NEW A/N 520794),

20. THREE (3) SLUDGE BLENDING TANKS
POLYMER SYSTEM CONSISTING OF POLYMER STORAGE, MIXING AND AGING TANKS.
THREE (3) SLUDGE THICKENING CENTRIFUGES
THREE (3) THICKENED SLUDGE WETWELLS
THREE (3) DEWATERING CENTRIFUGES
DEWATERED CAKE CONVEYANCE SYSTEM CONSISTING OF INCLINED SCREW CONVEYORS, HORIZONTAL/CROSS CONVEYERS, HORIZONTAL COLLECTOR CONVEYORS, CAKE HOPPERS AND TEMPORARY TRUCK LOAD OUT HOPPER.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS EQUIPMENT SHALL BE OPERATED BY PERSONNEL PROPERLY TRAINED IN ITS OPERATION.
[RULE 204]
4. ORANGE COUNTY SANITATION DISTRICT (OCSD) SHALL MAKE A WRITTEN REQUEST FOR AND OBTAIN AN EXTENSION OF TIME TO CONSTRUCT THIS EQUIPMENT ON AN ANNUAL BASIS UNTIL SUCH TIME CONSTRUCTION IS COMPLETED AND THE EQUIPMENT IS PUT INTO OPERATION. AT LEAST 30 DAYS PRIOR TO THE EXPIRATION DATE OF THE PERMIT TO CONSTRUCT, OCSD SHALL PROVIDE IN THE WRITTEN REQUEST, VERIFIABLE DATA TO AQMD IN ORDER TO SHOW COMPLIANCE WITH THE CONSTRUCTION SCHEDULE AS PROVIDED IN THE APPLICATION UNDER WHICH THIS PERMIT TO CONSTRUCT IS GRANTED. IF THERE ARE

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CHANGES TO THE INCREMENTS OF PROGRESS AND/OR CONSTRUCTION SCHEDULE, THEY WILL NOT BECOME EFFECTIVE UNTIL OCSD RECEIVES WRITTEN CONFIRMATION OF SUCH CHANGES FROM AQMD.

[RULE 204]

5. THE HEADWORKS FACILITIES, PRIMARY TREATMENT BASINS, AND NEW SLUDGE THICKENING AND DEWATERING AND SOLIDS PROCESSING AND HANDLING FACILITY (JOB P1-101) SHALL NOT BE OPERATED UNLESS THE EXHAUST AIR IS VENTED TO AIR POLLUTION CONTROL SYSTEMS, WHICH ARE IN OPERATION AND HAVE VALID PERMITS TO CONSTRUCT OR OPERATE ISSUED BY THE SCAQMD. IN THE EVENT AIR POLLUTION CONTROL SYSTEM(S) ARE SHUTDOWN FOR CONSTRUCTION OR MAINTENANCE WORK, THE H₂S EMISSIONS SHALL NOT EXCEED THE CONCENTRATION LIMITS AS SPECIFIED IN THEIR RESPECTIVE AIR POLLUTION CONTROL EQUIPMENT PERMIT.
[RULE 402]
6. THE DAILY TOTAL INFLUENT FLOW, IN MILLION GALLONS PER DAY (MGD), TO THE HEADWORKS, PRIMARY TREATMENT PROCESS, AND SECONDARY TREATMENT PROCESS SHALL BE RECORDED.
[RULE 204]
7. THE TOTAL INFLUENT FLOW OF WASTEWATER TO THE PRIMARY WASTEWATER TREATMENT PROCESS SHALL NOT EXCEED 216 MILLION GALLONS PER DAY (MGD), AVERAGED ON A CALENDAR MONTH, EXCEPT DURING WET WEATHER PERIODS AND EMERGENCY PERIODS INVOLVING PUBLIC HEALTH AND SAFETY.
[RULE 1304 (a) (4) – MODELING & OFFSETS EXEMPTION]
8. THE TOTAL INFLUENT FLOW OF WASTEWATER TO THE SECONDARY WASTEWATER TREATMENT PROCESS SHALL NOT EXCEED 182 MILLION GALLONS PER DAY (MGD), AVERAGED ON A CALENDAR MONTH, EXCEPT DURING WET WEATHER PERIODS AND EMERGENCY PERIODS INVOLVING PUBLIC HEALTH AND SAFETY.
[RULE 1304 (a) (4) – MODELING & OFFSETS EXEMPTION]
9. THE AVERAGE DAILY PRIMARY EFFLUENT FLOW RATE, TREATED BY THE NEW ACTIVATED SLUDGE FACILITY 2 (JOB NO. P1-102 CONSISTING OF SIX AERATION BASINS AND SIX SECONDARY CLARIFIERS), SHALL NOT EXCEED 60 MILLION GALLONS PER DAY (MGD) , AVERAGED ON A CALENDAR MONTH, EXCEPT DURING WET WEATHER PERIODS AND EMERGENCY PERIODS INVOLVING PUBLIC HEALTH AND SAFETY.
[RULE 204]
10. WITHIN 60 DAYS AFTER ACHIEVING THE MAXIMUM INFLUENT FLOW RATE FOR THE ACTIVATED SLUDGE FACILITY 2 (JOB NO. P1-102), BUT NOT LATER THAN 180 DAYS AFTER INITIAL START-UP, ORANGE COUNTY SANITATION DISTRICT (OCSD) SHALL CONDUCT SOURCE TESTS TO DETERMINE EMISSIONS FROM AT LEAST TWO OF THE SIX NEW AERATION BASINS' EXHAUST STACKS, AND AT LEAST TWO OF THE SIX NEW SECONDARY CLARIFIERS' SURFACE EMISSIONS, IN ACCORDANCE WITH THE AQMD OR OTHER APPROVED TEST PROCEDURES. A TEST PROTOCOL INCLUDING ALL SOURCE TESTING AND ANALYTICAL METHODS SHALL BE SUBMITTED TO THE AQMD, REFINERY AND WASTE MANAGEMENT TEAM, FOR APPROVAL AT LEAST 30 DAYS PRIOR TO START OF THE TESTS. NOTICE SHALL BE PROVIDED TO THE AQMD 10

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DAYS PRIOR TO THE TESTING SO THAT AN OBSERVER MAY BE PRESENT. WRITTEN RESULTS OF SUCH PERFORMANCE TESTS SHALL BE SUBMITTED WITHIN 60 DAYS AFTER TESTING. THE TESTS SHALL DETERMINE THE EMISSIONS TO ATMOSPHERE FROM TWO OF THE AERATION BASINS AND TWO OF THE SECONDARY CLARIFIERS FOR:

- A. TOTAL NON-METHANE HYDROCARBONS (TNMHC) AND TOXIC AIR CONTAMINANTS (TAC) PRESENT, (LBS/HR AND PPMV).
 - B. AMMONIA AND HYDROGEN SULFIDE (H₂S), (LBS/HR AND PPMV).
 - C. CARBON DIOXIDE, OXYGEN AND NITROGEN
 - D. MOISTURE CONTENT, TEMPERATURE AND EXHAUST FLOW RATE.
11. ADEQUATE NUMBER OF SAMPLING PORTS WITH ITS SAFE ACCESS, SHALL BE INSTALLED AND MAINTAINED IN THE AERATION BASINS' EXHAUST STACK (JOB NO. P1-102) IN ACCORDANCE WITH SCAQMD'S RULE 217.
[RULE 217]
 12. ORANGE COUNTY SANITATION DISTRICT (OCS D) SHALL CALCULATE THE MAXIMUM INDIVIDUAL CANCER RISK (MICR), ACUTE HAZARD INDEX (HIA) AND CHRONIC HAZARD INDEX (HIC), BASED ON THE SOURCE TESTS RESULTS, USING AQMD PUBLISHED "RISK ASSESSMENT PROCEDURES FOR RULES 1401 AND 212" (VERSION 7.0, JULY 1, 2005), TO DETERMINE THE COMPLIANCE WITH RULE 1401. RESULTS SHALL BE SUBMITTED TO AQMD.
[RULE 1401]
 13. IF SOURCE TESTS RESULTS INDICATE THAT THE TOTAL VOLATILE ORGANIC COMPOUNDS (VOC) EMISSIONS FROM THE AERATION BASINS EXCEED 13 LBS PER DAY OR AS DETERMINED BY AQMD, THEN OCS D SHALL CONDUCT IN DETAIL THE TECHNOLOGICAL FEASIBLE STUDY AND COST-EFFECTIVENESS ANALYSIS FOR A SUITABLE AIR POLLUTION CONTROL EQUIPMENT TO DETERMINE LOWEST ACHIEVABLE EMISSION RATE (LAER) FROM SUCH PROCESS.
[RULE 1303 (a) (1) – BACT]
 14. THE HYDROGEN SULFIDE (H₂S) CONCENTRATION (PPMV) IN THE EXHAUST STACKS OF EACH TRICKLING FILTER SHALL BE MEASURED AND RECORDED ON A DAILY BASIS.
[RULE 402]
 15. RAW DIGESTER GAS PRODUCED AT THIS FACILITY SHALL NOT BE RELEASED INTO THE ATMOSPHERE. ALL COLLECTED DIGESTER GAS SHALL BE EITHER COMBUSTED IN DIGESTER GAS FLARES, INTERNAL COMBUSTION ENGINES, OR BOILERS WITH VALID AQMD PERMIT, OR SHALL BE TREATED THROUGH A PERMITTED AIR POLLUTION CONTROL DEVICE(S).
[RULE 402]
 16. THE SAWDUST USED IN THE SLUDGE MANAGEMENT SYSTEM SHALL BE STORED AND KEPT SUFFICIENTLY MOIST TO PREVENT ANY AIR BORNE PARTICULATE MATTER EMISSIONS.
[RULE 402]
 17. OCS D SHALL KEEP THE FOLLOWING DAILY RECORDS WITH REGARDS TO THE SLUDGE MANAGEMENT SYSTEM,

FACILITY PERMIT TO OPERATE ORANGE COUNTY SANITATION DISTRICT

- I. THE AMOUNT OF SLUDGE DEWATERED IN EACH DRYING BED.
 - II. NUMBER OF TRUCKS WASHED.
 - III. NUMBER OF LEAKY OR OVERFILLED TRUCKS.
[RULE 204]
18. RECORDS TO DEMONSTRATE COMPLIANCE WITH THE CONDITIONS OF THIS PERMIT SHALL BE KEPT AND MAINTAINED FOR AT LEAST FIVE YEARS AND MADE AVAILABLE TO THE SCAQMD PERSONNEL UPON REQUEST.
[RULE 204]