CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION

MONITORING AND REPORTING PROGRAM WQ 2016-0068-DDW-R5017

FOR

CITY OF LATHROP
CONSOLIDATED TREATMENT FACILITY
SAN JOAQUIN COUNTY

This Monitoring and Reporting Program (MRP) describes requirements for monitoring portions of the wastewater treatment system at the City of Lathrop Consolidated Treatment Facility (CTF) regulated by the Notice of Applicability (NOA) of Water Quality Order WQ 2016-0068-DDW-R5017. The CTF is owned and operated by the City of Lathrop (the Discharger). This MRP is issued pursuant to Water Code section 13267. The Discharger shall not implement any changes to this MRP unless and until a revised MRP is issued by the Regional Water Quality Control Board, Central Valley Region (Central Valley Water Board) or Executive Officer.

Water Code section 13267 states, in part:

> "In conducting an investigation specified in subdivision (a), the regional board may require that any person who has discharged, discharges, or is suspected of having discharged or discharging, or who proposes to discharge waste within its region, or any citizen or domiciliary, or political agency or entity of this state who has discharged, discharges, or is suspected of having discharged or discharging, or who proposes to discharge, waste outside of its region that could affect the quality of waters within its region shall furnish, under penalty of perjury, technical or monitoring program reports which the regional board requires. The burden, including costs, of these reports shall bear a reasonable relationship to the need for the report and the benefits to be obtained from the reports. In requiring those reports, the regional board shall provide the person with a written explanation with regard to the need for the reports and shall identify the evidence that supports requiring that person to provide the reports."

Water Code section 13268 states, in part:

> "(a) Any person failing or refusing to furnish technical or monitoring program reports as required by subdivision (b) of section 13267 or failing or refusing to furnish a statement of compliance as required by subdivision (b) of section 13399.2, or falsifying any information provided therein, is guilty of a misdemeanor and may be liable civilly in accordance with subdivision (b).
>
> (b)(1) Civil liability may be administratively imposed by a regional board in accordance with article 2.5 (commencing with section 13323) of chapter 5 for a

violation of subdivision (a) in an amount which shall not exceed one thousand dollars ($1,000) for each day in which the violation occurs."

Pursuant to Water Code section 13267, the Discharger shall implement this MRP and submit the monitoring reports described herein. The reports are necessary to ensure that the Discharger complies with the NOA and General Order.

All samples shall be representative of the volume and nature of the discharge or matrix of material sampled. The name of the sampler, sample type (grab or composite), time, date, location, bottle type, and any preservative used for each sample shall be recorded on the sample chain of custody form. The chain of custody form must also contain all custody information including date, time, and to whom samples were relinquished. If composite samples are collected, the basis for sampling (time or flow weighted) shall be approved by Central Valley Water Board staff.

Field test instruments (such as those used to test pH, dissolved oxygen, and electrical conductivity) may be used provided that they are used by a State Water Resources Control Board, Environmental Laboratory Accreditation Program certified laboratory, or:

1. The user is trained in proper use and maintenance of the instruments;
2. The instruments are field calibrated prior to monitoring events at the frequency recommended by the manufacturer;
3. Instruments are serviced and/or calibrated by the manufacturer at the recommended frequency; and
4. Field calibration reports are maintained and available for at least three years.

RECYCLED WATER MONITORING

Recycled water used for irrigation of landscape areas requires priority pollutant monitoring at the production facility. Landscape areas are defined as parks; greenbelts; playgrounds; school yards; athletic fields; golf courses; cemeteries; residential landscaping; common areas; commercial landscaping (except eating areas); industrial landscaping (except eating areas); and freeway, highway, and street landscaping.

MRP Table 1. Recycled Water Monitoring

Constituent	Treatment System Flow Rate	Sample Frequency	Reporting Frequency
Priority Pollutants	< 1 mgd	5 years	The next annual report
	≥ 1 mgd	Annually	Annually

DISINFECTION SYSTEM MONITORING

If disinfection is performed, samples shall be collected downstream of the disinfection system and analyzed by an approved laboratory per Title 22, section 60321(a).

MRP Table 2. Disinfection Monitoring

Constituent/Parameter	Units	Sample Type	Sample Frequency	Reporting Frequency
Total Coliform Bacteria	MPN/100 mL	Grab	Daily	Annually
Turbidity	NTU	Grab/Meter	Continuous	Annually

POND SYSTEM MONITORING

Recycled water storage ponds may be used to store recycled water when it is not needed. These monitoring requirements apply only to ponds permitted through this General Order. Ponds covered by an existing order shall continue to be monitored in accordance with that order. Pond(s) containing recycled water shall be monitored for the following:

MRP Table 3. Pond Monitoring

Parameter	Units	Sample Type	Sample Frequency	Reporting Frequency
Freeboard	0.1 feet	Measurement	Quarterly	Annually
Odors	--	Observation	Quarterly	Annually
Berm Condition	--	Observation	Quarterly	Annually

USE AREA MONITORING

The Administrator shall monitor use areas(s) at a frequency appropriate to determine compliance with this General Order and the Administrator's recycled water program requirements. An Administrator may assign monitoring responsibilities to a User as part of the Water Recycling Use Permit program; the Administrator retains responsibility to ensure data are collected, as well as prepare and submit the annual report.

The following shall be recorded for each user with additional reporting for use areas as appropriate. The frequency of use area inspections shall be based on the complexity and risk of each use area. Use areas may be aggregated to combine acreage for calculation or observation purposes. Use area monitoring shall include the following parameters:

MRP Table 4. Use Area Monitoring

Parameter	Units	Sample Type	Sampling Frequency	Reporting Frequency
Recycled Water User	--	--	--	Annually
Recycled Water Flow	gpd	Meter [1]	Monthly	Annually
Acreage Applied [2]	Acres	Calculated	--	Annually
Application Rate	Inches/acre/year	Calculated	--	
Soil Saturation/ Ponding	--	Observation	Quarterly	Annually
Nuisance Odors/Vectors	--	Observation	Quarterly	Annually
Discharge Off-Site	--	Observation	Quarterly	Annually
Notification Signs [3]	--	Observation	Quarterly	Annually

Note 1: Meter requires meter reading, a pump run time meter, or other approved method.
Note 2: Acreage applied denotes the acreage to which recycled water is applied.
Note 3: Notification signs shall be consistent with the requirements of California Code of Regulations, Title 22, section 60310(g).

REPORTING

In reporting monitoring data, the Administrator shall arrange the data in tabular form so that the date, data type (e.g., flow rate, bacteriological, etc.), and reported analytical or visual inspection results are readily discernible. The data shall be summarized to illustrate compliance with this General Order and NOA as applicable. The results of any monitoring done more frequently than required at the locations specified in the MRP shall be reported in the next regularly scheduled monitoring report and shall be included in calculations as appropriate.

All monitoring reports should be converted to a searchable Portable Document Format (PDF) and submitted electronically. Documents that are less then 50MB should be emailed to:

centralvalleysacramento@waterboards.ca.gov.

Documents that are 50MB or larger should be transferred to a CD, DVD, or flash drive and mailed to following address:

Central Valley Regional Water Quality Control Board
ECM Mailroom
11020 Sun Center Drive, Suite 200
Rancho Cordova, CA 95670

To ensure that your submittal is routed to the appropriate staff person, the following information should be included in the body of the email or transmittal sheet:

Facility Name: City of Lathrop Consolidated Treatment Facility, San Joaquin County		
Program: Non-15 Compliance	Order: WQ 2016-0068-DDW-R5017	CIWQS Place ID: 271781

Monitoring information shall include the method detection limit (MDL) and the Reporting Limit (RL) or practical quantitation limit (PQL). If the regulatory limit for a given constituent is less than the RL or PQL, then the analytical results for that constituent that are below the RL or PQL but above the MDL shall be reported and flagged as estimated. For a Discharger conducting any of its own analyses, reports must be signed and certified by the chief of the laboratory.

A. Annual Reports

Annual Reports shall be submitted to the Regional Water Board by **April 1st following the monitoring year**. The Annual Report shall include the following:

1. A summary table of all recycled water Users and use areas. Maps may be included to identify use areas. Newly permitted recycled water Users and use areas shall be identified. When applicable, supplement to the Title 22 Engineering Report and the State Water Board approval letter supporting those additions shall be included.

2. A summary table of all inspections and enforcement activities initiated by the Administrator. Include a discussion of compliance and the corrective action taken, as well as any planned or proposed actions needed to bring the discharge into compliance with the NOA and/or General Order. Copies of documentation of any enforcement actions taken by the Administrator shall be provided.

3. An evaluation of the performance of the recycled water treatment facility, including discussion of capacity issues, system problems, and a forecast of the flows anticipated in the next year.

4. Tabular and graphical summaries of all monitoring data collected during the year, including priority pollutant monitoring, if required.

5. The name and contact information for the recycled water operator responsible for operation, maintenance, and system monitoring.

A letter transmitting the annual report shall accompany each report. The letter shall summarize the numbers and severity of violations found during the reporting period, and actions taken or planned to correct the violations and prevent future violations. The transmittal letter shall contain the following penalty of perjury statement and shall be signed by the Administrator or the Administrator's authorized agent:

> "I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of the those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."

The Administrator shall implement the above monitoring program.

This Order is issued under authority delegated to the Executive Officer by the Central Valley Water Board pursuant to Resolution R5-2009-0027 and is effective upon signature.

Patrick Pulupa
Digitally signed by Patrick Pulupa
Date: 2020.06.12 10:39:55 -07'00'

PATRICK PULUPA, Executive Officer

GLOSSARY

Annually	= once per year
CIWQS	= California Integrated Water Quality System
CTF	= Consolidated Treatment Facility
Daily	= Every day except for weekends or holidays
gpd	= gallons per day
MDL	= method detection limit
mgd	= million gallons per day
Monthly	= once per calendar month
MPN/100 mL	= most probable number per 100 milliliters
MRP	= monitoring and reporting program
NOA	= Notice of Applicability
NTU	= nephelometric turbidity number
PQL	= practical quantitation limit
Quarterly	= once per calendar quarter
RL	= reporting limit
WDRs	= Waste Discharge Requirements

PRIORITY POLLUTANTS

Appendix A to 40 CFR, Part 423--126 Priority Pollutants	
001	Acenaphthene
002	Acrolein
003	Acrylonitrile
004	Benzene
005	Benzidine
006	Carbon tetrachloride (tetrachloromethane)
007	Chlorobenzene
008	1,2,4-trichlorobenzene
009	Hexachlorobenzene
010	1,2-dichloroethane
011	1,1,1-trichloreothane
012	Hexachloroethane
013	1,1-dichloroethane
014	1,1,2-trichloroethane
015	1,1,2,2-tetrachloroethane
016	Chloroethane
018	Bis(2-chloroethyl) ether
019	2-chloroethyl vinyl ether (mixed)
020	2-chloronaphthalene
021	2,4, 6-trichlorophenol
022	Parachlorometa cresol
023	Chloroform (trichloromethane)
024	2-chlorophenol
025	1,2-dichlorobenzene
026	1,3-dichlorobenzene
027	1,4-dichlorobenzene
028	3,3-dichlorobenzidine
029	1,1-dichloroethylene
030	1,2-trans-dichloroethylene
031	2,4-dichlorophenol
032	1,2-dichloropropane
033	1,2-dichloropropylene (1,3-dichloropropene)
034	2,4-dimethylphenol
035	2,4-dinitrotoluene
036	2,6-dinitrotoluene
037	1,2-diphenylhydrazine
038	Ethylbenzene
039	Fluoranthene
040	4-chlorophenyl phenyl ether
041	4-bromophenyl phenyl ether

Appendix A to 40 CFR, Part 423--126 Priority Pollutants	
042	Bis(2-chloroisopropyl) ether
043	Bis(2-chloroethoxy) methane
044	Methylene chloride (dichloromethane)
045	Methyl chloride (dichloromethane)
046	Methyl bromide (bromomethane)
047	Bromoform (tribromomethane)
048	Dichlorobromomethane
051	Chlorodibromomethane
052	Hexachlorobutadiene
053	Hexachloromyclopentadiene
054	Isophorone
055	Naphthalene
056	Nitrobenzene
057	2-nitrophenol
058	4-nitrophenol
059	2,4-dinitrophenol
060	4,6-dinitro-o-cresol
061	N-nitrosodimethylamine
062	N-nitrosodiphenylamine
063	N-nitrosodi-n-propylamin
064	Pentachlorophenol
065	Phenol
066	Bis(2-ethylhexyl) phthalate
067	Butyl benzyl phthalate
068	Di-N-Butyl Phthalate
069	Di-n-octyl phthalate
070	Diethyl Phthalate
071	Dimethyl phthalate
072	1,2-benzanthracene (benzo(a) anthracene
073	Benzo(a)pyrene (3,4-benzo-pyrene)
074	3,4-Benzofluoranthene (benzo(b) fluoranthene)
075	11,12-benzofluoranthene (benzo(b) fluoranthene)
076	Chrysene
077	Acenaphthylene
078	Anthracene
079	1,12-benzoperylene (benzo(ghi) perylene)
080	Fluorene
081	Phenanthrene
082	1,2,5,6-dibenzanthracene (dibenzo(,h) anthracene)
083	Indeno (,1,2,3-cd) pyrene
084	Pyrene
085	Tetrachloroethylene

Appendix A to 40 CFR, Part 423--126 Priority Pollutants	
086	Toluene
087	Trichloroethylene
088	Vinyl chloride (chloroethylene)
089	Aldrin
090	Dieldrin
091	Chlordane (technical mixture and metabolites)
092	4,4-DDT
093	4,4-DDE (p,p-DDX)
094	4,4-DDD (p,p-TDE)
095	Alpha-endosulfan
096	Beta-endosulfan
097	Endosulfan sulfate
098	Endrin
099	Endrin aldehyde
100	Heptachlor
101	Heptachlor epoxide
102	Alpha-BHC
103	Beta-BHC
104	Gamma-BHC (lindane)
105	Delta-BHC (PCB-polychlorinated biphenyls)
106	PCB-1242 (Arochlor 1242)
107	PCB-1254 (Arochlor 1254)
108	PCB-1221 (Arochlor 1221)
109	PCB-1232 (Arochlor 1232)
110	PCB-1248 (Arochlor 1248)
111	PCB-1260 (Arochlor 1260)
112	PCB-1016 (Arochlor 1016)
113	Toxaphene
114	Antimony
115	Arsenic
116	Asbestos
117	Beryllium
118	Cadmium
119	Chromium
120	Copper
121	Cyanide, Total
122	Lead
123	Mercury
124	Nickel
125	Selenium
126	Silver
127	Thallium

Appendix A to 40 CFR, Part 423--126 Priority Pollutants	
128	Zinc
129	2,3,7,8-tetrachloro-dibenzo-p-dioxin (TCDD)