

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION

ORDER R5-2016-XXXX

WASTE DISCHARGE REQUIREMENTS
FOR
LATON COMMUNITY SERVICES DISTRICT
WASTEWATER TREATMENT FACILITY
FRESNO COUNTY

The California Regional Water Quality Control Board, Central Valley Region (hereafter Central Valley Water Board or Board) finds that:

Background

1. The Laton Community Services District (hereafter District or Discharger) owns and operates the wastewater treatment facility (WWTF) that provides sewerage service for the unincorporated community of Laton (population 1,800), in Fresno County. The WWTF occupies Assessor's Parcel Numbers (APN's) 057-090-19T, 057-090-32T, 057-090-33T, 057-090-46T in, T17S, R21E, MDB&M, as shown in Attachment A, which is attached hereto and made part of the Order by reference.
2. Waste Discharge Requirements (WDRs) Order 85-253, adopted by the Central Valley Water Board on 27 September 1985, prescribes requirements for the WWTF. Order 85-253 allows a 30-day average dry weather flow of up to 0.2 million gallons per day (mgd). The purpose of this Order is to rescind the previous Order and update waste discharge requirements, in part, to ensure the discharge is consistent with water quality plans and policies and to prescribe requirements that are effective in preserving existing and potential beneficial uses of receiving water.
3. Central Valley Water Board staff issued Revised Monitoring and Reporting Program 85-253 on 25 July 1990.
4. The Discharger owns and operates the WWTF and collection system and is responsible for compliance with these WDRs.

Wastewater Treatment and Disposal

5. The WWTF treats and disposes of domestic wastewater from the unincorporated community of Laton. The community has an estimated population of 1,800.
6. The WWTF features secondary treatment and consists of a wet well with a grinder, two lift pumps, an aeration basin, clarifier, six evaporation/percolation ponds, emergency basin, two concrete lined sludge drying beds, and surrounding bermed land owned by the District which has been utilized for discharge in the past during pond maintenance activities. A current site map is included in Attachment A, which is attached hereto and made part of this Order by reference.

7. In September 2015, the District Engineer submitted proposed construction drawing for two additional evaporation/percolation ponds. The ponds were constructed in early 2016. The new ponds will provide flexibility for pond maintenance activities. The District is not requesting a flow increase.
8. The Discharger's self-monitoring reports (SMRs) from 1 June 2011 through 31 July 2015 indicate that monthly average effluent flow is about 0.100 mgd.
9. Table 1 summarizes the results of WWTF effluent monitoring for the period January 2011 through July 2015.

Table 1. Summary of Effluent Analytical Results (2011-2015)

<u>Parameter</u>	<u>Units</u> ¹	<u>Average</u>	<u>Range</u>
Biochemical Oxygen Demand (BOD)	mg/L	3.5	nd-17
Suspended Matter	mg/L	6.8	5-18
Settleable Matter	ml/L	0.04	< 0.1-0.3
Electrical Conductivity (EC)	µmhos/cm	354	230-633
pH	S.U.	-	5.2-8.5
Alkalinity as Calcium Carbonate (CaCO ₃) ²	mg/L	109	78-140
Ammonia as Nitrogen (N) ²	mg/L	7.4	0.8-14
Chloride ³	mg/L	31.8	28-33
Nitrate as Nitrogen (N) ³	mg/L	1.36	nd-5.2
Orthophosphate as Phosphate (PO ₄) ³	mg/L	1.2	1-1.8
Sulfate as Sulfate (SO ₄) ³	mg/L	31.4	28-33
Total Dissolved Solids (TDS) ²	mg/L	235	230-240
Boron ²	mg/L	0.14	0.13-0.15
Calcium ³	mg/L	18.25	15-21
Iron ³	mg/L	<0.1	nd-<0.1
Magnesium ³	mg/L	1.47	0.87-2
Potassium ³	mg/L	9.26	7.8-10
Silicon Dioxide ²	mg/L	21.5	21-22
Sodium ³	mg/L	51.8	48-58
Hardness as Calcium Carbonate (CaCO ₃) ²	mg/L	43.5	42-45

1. mg/L = milligrams per liter; ml/L = milliliter per liter; µmhos/cm = micromhos per centimeter; S.U. = pH standard units

2. Two sample results

3. Five sample results

10. The sanitary sewer system is a gravity system and consists of approximately six miles of eight-inch pipe.
11. The sanitary sewer system collects wastewater and consists of sewer pipes, manholes, and/or other conveyance system elements that direct raw sewage to the treatment facility. A "sanitary sewer overflow" (SSO) is defined as a discharge to ground or surface water from the sanitary

sewer system at any point upstream of the treatment facility. Temporary storage and conveyance facilities (such as wet wells, regulated impoundments, tanks, highlines, etc.) may be part of a sanitary sewer system and discharges to these facilities are not considered SSOs, provided that the waste is fully contained within these temporary storage/conveyance facilities.

12. SSOs consist of varying mixtures of domestic and commercial wastewater, depending on land uses in the sewage collection system. The most common causes of SSOs are grease blockages, root blockages, debris blockages, sewer line flood damage, manhole structure failures, vandalism, pump station mechanical failures, power outages, storm or groundwater inflow/infiltration, lack of capacity, and/or contractor-caused blockages.
13. On 2 May 2006, the State Water Board adopted Statewide General Waste Discharge Requirements for Sanitary Sewer Systems General Order 2006-0003-DWQ (the General Order). The General Order requires all public agencies that own or operate sanitary sewer systems greater than one mile in length to comply with the Order. The Discharger's collection system exceeds one mile in length. The Discharger has been enrolled under the General Order since 4 January 2007.
14. The District has submitted a planning grant application to the State Water Resources Control Board. The planning grant includes an evaluation of the metering upgrades at the wastewater treatment facilities, along with a study on the potential for reuse of wastewater effluent on adjacent properties.

Biosolids Management

15. WDRs 85-253 required that collected screenings, sludges, and other solids removed from liquid wastes shall be disposed of in a manner approved by the Executive Officer.
16. Sludge from the clarifier is discharged to two concrete-lined drying beds, and then stockpiled onsite until there is a sufficient quantity to economically remove it.

Source Water Characteristics

17. Source water for the District is from three District-owned groundwater wells. Source water monitoring conducted for compliance with WDR 85-253 for the period 2011 through 2014 is reported in table 2 below:

Table 2. Laton CSD - Source Water Quality (2011-2014)

<u>Parameter</u>	<u>Units</u>	<u>Average</u>	<u>Range</u>
EC	umhos/cm	102	70-170
TDS	mg/L	95	78-110
Chloride	mg/L	2.4	1.8-2.7
Sulfate	mg/L	6.1	3.3-9.3
Nitrate as N	mg/L	1.9	1.6-2.1

Site-Specific Conditions

18. The land surface in the vicinity of the WWTF is generally flat. Elevation at the WWTF is about 250 feet above mean sea level, sloping slightly to the west.
19. According to Federal Emergency Management Agency maps (Map Number 06019C2925J), the WWTF is not located within a 100-year flood plain.
20. Soils in the vicinity of the WWTF are alluvium of granitic rock sources, predominantly sandy loams and clay loams. According to the Web Soil Survey published by the United States Department of Agriculture Natural Resources Conservation Service, soils at the WWTF are comprised primarily of Grangeville fine sandy loam.
21. According to the Department of Water Resources (DWR) Land Use Map survey of Fresno County in 2010, the primary land uses in the vicinity of the WWTF is urban residential, and high density walnut orchards.
22. The Laton area is characterized as semi-arid with hot dry summers and cool winters. Annual precipitation in the vicinity of the WWTF averages approximately 8.5 inches, the 100-year-return-period wet year rainfall is approximately 16 inches, and the reference evapotranspiration rate is approximately 62.5 inches per year.

Groundwater Conditions

23. The WWTF is in the Lower Kings River Hydrologic Area (No. 551.80) of the South Valley Hydrologic Unit, as depicted on hydrologic maps prepared by State Water Resources Control Board in August 1986.
24. Regional groundwater underlying the area is first encountered at about 130 feet below ground surface (bgs) and flows to the northwest according to the DWR Groundwater Information Center (GIC) Interactive map using data from Spring 2016.
25. Regional groundwater quality data can be found on the Water Quality Portal website, a cooperative service provided by the United States Geological Survey (USGS), the Environmental Protection Agency, and the National Water Quality Monitoring Council. A review of the USGS files indicates three wells are within a two-mile radius of the WWTF. Table 3 below summarizes this data.

Table 3. Regional Groundwater Results

Parameter ¹	017S021E 14P001M	017S021E 14R001M	011S021E 24E001M
Well Depth	300	145	90
Sample Date	7/22/1987	7/22/1987	9/4/1956
pH	7.75	8.3	7.9
Specific Conductance	383	146	218
Boron	30	20	100

Chloride	9.5	1.5	13
Magnesium	7.4	1.8	4.5
Nitrate as N	3.2	0.2	9.94
Potassium	1.6	0.8	2.1
Sodium	32	8	63
TDS	258	113	369
Hardness	123	57.5	150

1. Well depth in feet below ground surface, specific conductance in umhos/cm, pH in standard units, boron in ug/L. All other parameters in mg/L.

26. A 14 May 1992 Central Valley Water Board letter excused the District from developing a groundwater monitoring network due to the cost and complexity of groundwater conditions in the vicinity of the WWTF due to the Kings River to the south of the WWTF and two unlined irrigation ditches to the north of the WWTF.

Basin Plan, Beneficial Uses, and Regulatory Considerations

27. The *Water Quality Control Plan for the Tulare Lake Basin, Second Edition, revised January 2015* (hereafter Basin Plan) designates beneficial uses, establishes water quality objectives, contains implementation plans and policies for protecting waters of the basin, and incorporates by reference plans and policies adopted by the State Water Board. Pursuant to Water Code section 13263(a), waste discharge requirements must implement the Basin Plan.
28. The WWTF lies within Detailed Analysis Unit (DAU) 237, within the Kings Basin Hydrologic Unit. The beneficial uses of underlying groundwater as set forth in the Basin Plan are municipal and domestic supply (MUN), agricultural supply (AGR), industrial service supply and industrial process supply (IND).
29. The Basin Plan establishes narrative water quality objectives for chemical constituents, tastes and odors, and toxicity in groundwater. It also sets forth a numeric objective for total coliform organisms.
30. The Basin Plan's numeric water quality objective for bacteria requires that the most probable number (MPN) of coliform organisms over any seven-day period shall be less than 2.2 per 100 mL in MUN groundwater.
31. The Basin Plan's narrative water quality objectives for chemical constituents, at a minimum, require waters designated as domestic or municipal supply to meet the MCLs specified in Title 22 of the California Code of Regulations (hereafter Title 22). The Basin Plan recognizes that the Central Valley Water Board may apply limits more stringent than MCLs to ensure that waters do not contain chemical constituents in concentrations that adversely affect beneficial uses.

32. The narrative toxicity objective requires that groundwater be maintained free of toxic substances in concentrations that produce detrimental physiological responses in human, animal, plant, or aquatic life associated with designated beneficial uses.
33. Quantifying a narrative water quality objective requires a site-specific evaluation of those constituents that have the potential to impact water quality and beneficial uses. The Basin Plan states that when compliance with a narrative objective is required to protect specific beneficial uses, the Central Valley Water Board will, on a case-by-case basis, adopt numerical limitations in order to implement the narrative objective.
34. In the absence of specific numerical water quality limits, the Basin Plan methodology is to consider any relevant published criteria. General salt tolerance guidelines, such as *Water Quality for Agriculture* by Ayers and Westcot and similar references indicate that yield reductions in nearly all crops are not evident when irrigation water has an EC less than 700 $\mu\text{mhos/cm}$. There is, however, an eight- to ten-fold range in salt tolerance for agricultural crops and the appropriate salinity values to protect agriculture in the Central Valley are considered on a case-by-case basis. It is possible to achieve full yield potential with waters having EC up to 3,000 $\mu\text{mhos/cm}$ if the proper leaching fraction is provided to maintain soil salinity within the tolerance of the crop.
35. The Basin Plan identifies the greatest long-term problem facing the entire Tulare Lake Basin as the increase in salinity in groundwater, which has accelerated due to the intensive use of soil and water resources by irrigated agriculture. The Basin Plan recognizes that degradation is unavoidable until a mechanism to carry salts out of the basin is established. To limit the degradation, the Basin Plan establishes several salt management requirements, including:
 - a. The incremental increase in salts from use and treatment must be controlled to the extent possible. The maximum EC shall not exceed the EC of the source water plus 500 $\mu\text{mhos/cm}$.
 - b. Discharges to areas that may recharge good quality groundwater shall not exceed an EC of 1,000 $\mu\text{mhos/cm}$, a chloride content of 175 mg/L, or a boron content of 1.0 mg/L.
36. This Order implements a maximum discharge EC limit of no more than the source water EC plus 500 $\mu\text{mhos/cm}$ as a 12-month rolling average.
37. The Basin Plan requires that each RWD for a land disposal operation justify why reclamation is not practiced or proposed. This requirement has not been fulfilled because the Discharger was not asked to submit a RWD, however, the requirement is addressed by Provision F.16.

Antidegradation Analysis

38. State Water Resources Control Board Resolution 68-16 ("Policy with Respect to Maintaining High Quality Waters of the State") (hereafter Resolution 68-16) prohibits degradation of groundwater unless it has been shown that:
 - a. The degradation is consistent with the maximum benefit to the people of the state.
 - b. The degradation will not unreasonably affect present and anticipated future beneficial uses.

- c. The degradation does not result in water quality less than that prescribed in state and regional policies, including violation of one or more water quality objectives, and
 - d. The discharger employs best practicable treatment or control (BPTC) to minimize degradation.
39. Degradation of groundwater by some of the typical waste constituents associated with discharges from a municipal wastewater utility, after effective source control, treatment, and control measures are implemented, is consistent with the maximum benefit to the people of the state. The technology, energy, water recycling, and waste management advantages of municipal utility service far exceed any benefits derived from reliance on numerous, concentrated individual wastewater systems, and the impact on water quality will be substantially less. The economic prosperity of valley communities and associated industry is of maximum benefit to the people of the State, and provides sufficient justification for allowing the limited groundwater degradation that may occur pursuant to this Order.
40. Constituents of concern that have the potential to degrade groundwater include, in part, organics, nutrients, and salts.
 - a. With the conditions stipulated in this Order, the discharge is not expected to cause nuisance conditions or unreasonable degradation of groundwater with constituents related to organic overloading.
 - b. For nutrients such as nitrate, the potential for degradation depends not only on the quality of the treated effluent, but the ability of the vadose zone below the effluent disposal ponds to provide an environment conducive to nitrification and denitrification to convert the effluent nitrogen to nitrate and the nitrate to nitrogen gas before it reaches the water table. Past effluent monitoring indicates the discharge has a low nitrate concentration.
 - c. For salinity, available effluent monitoring indicates that the average effluent EC concentration complies with the effluent EC limit of source water EC plus 500 umhos/cm contained in this Order.
41. The Discharger currently disposes of WWTF effluent only by evaporation and percolation in disposal ponds. Crops irrigated with WWTF effluent would take up nitrogen and further reduce the potential for groundwater degradation with nitrate. Provision F.16 of this Order requires the Discharger to identify potential uses of recycled water in the area and move forward with a recycled water project, if possible. If the Discharger demonstrates that crop irrigation with WWTF effluent is infeasible, Provision F.16 of this Order requires the Discharger to provide a report justifying the conclusion for Executive Officer approval.
42. This Order establishes effluent and groundwater limitations for the WWTF that will not unreasonably threaten present and anticipated beneficial uses or result in groundwater quality.
 - a. For nitrate, BOD and TSS, current effluent monitoring data indicates that the discharge has not likely caused groundwater to be degraded beyond background groundwater quality.
 - b. For EC, effluent monitoring data indicates that the discharge has not likely caused groundwater to exceed a water quality objective.
43. The Discharger provides treatment and control of the discharge that incorporates:

- a. Secondary treatment of wastewater;
- b. An operation and maintenance manual;
- c. Certified operators to ensure proper operation and maintenance; and
- d. Source water and discharge monitoring.

The Board finds that the preceding treatment and control measures represent BPTC for these discharges.

44. This Order is consistent with Resolution 68-16 since (a) the limited degradation allowed by this Order will not result in water quality less than water quality objectives, or unreasonably affect present and anticipated beneficial uses, (b) the Discharger has implemented BPTC to minimize degradation, and (c) the limited degradation is of maximum benefit to people of the State.

Other Regulatory Considerations

45. In compliance with Water Code section 106.3, it is the policy of the State of California that every human being has the right to safe, clean, affordable, and accessible water adequate for human consumption, cooking, and sanitary purposes. This Order promotes that policy by requiring groundwater that receives the discharge to meet maximum contaminant levels designed to protect human health and ensure that water is safe for domestic use.
46. Based on the threat and complexity of the discharge, the facility is determined to be classified as 2B as defined below:
 - a. Category 2 threat to water quality: "Those discharges of waste that could impair the designated beneficial uses of the receiving water, cause short-term violations of water quality objectives, cause secondary drinking water standards to be violated, or cause a nuisance."
 - b. Category B complexity, defined as: "Any discharger not included [as Category A] that has physical, chemical, or biological treatment systems (except for septic systems with subsurface disposal) or any Class 2 or Class 3 waste management units."
47. Title 27 of the California Code of Regulations (hereafter Title 27) contains regulatory requirements for the treatment, storage, processing, and disposal of solid waste. However, Title 27 exempts certain activities from its provisions. Discharges regulated by this Order are exempt from Title 27 pursuant to provisions that exempt domestic sewage and wastewater. Title 27, section 20090 states in part:
 - (a) Sewage - Discharges of domestic sewage or treated effluent which are regulated by WDRs issued pursuant to Chapter 9, Division 3, Title 23 of this code, or for which WDRs have been waived, and which are consistent with applicable water quality objectives, and treatment or storage facilities associated with municipal wastewater treatment plants, provided that residual sludges or solid waste from wastewater

treatment facilities shall be discharged only in accordance with the applicable SWRCB-promulgated provisions of this division.

- (b) Wastewater - Discharges of wastewater to land, including but not limited to evaporation ponds, percolation ponds, or subsurface leachfields if the following conditions are met:
- (1) the applicable RWQCB has issued WDRs, reclamation requirements, or waived such issuance;
 - (2) the discharge is in compliance with the applicable water quality control plan; and
 - (3) the wastewater does not need to be managed according to Chapter 11, Division 4.5, Title 22 of this code as a hazardous waste.

48. The discharge authorized herein (except for the discharge of residual sludge and solid waste), and the treatment and storage facilities associated with the discharge, are exempt from the requirements of Title 27 as follows:
- a. The wastewater treatment plant is exempt pursuant to Title 27, section 20090(a) because it is a treatment facility associated with a municipal domestic wastewater treatment plant.
 - b. Evaporation/Percolation Ponds 1, 2, 3, 4, 5, and 6 are exempt pursuant to Title 27, section 20090(b) because they are wastewater evaporation/percolation ponds and:
 - i. The Central Valley Water Board is issuing WDRs.
 - ii. The discharge is in compliance with the Basin Plan, and;
 - iii. The treated effluent discharged to the ponds does not need to be managed as hazardous waste.
49. The State Water Board adopted Order 2014-0057-DWQ (NPDES General Permit CAS000001) specifying waste discharge requirements for discharges of storm water associated with industrial activities, and requiring submittal of a Notice of Intent by all affected industrial dischargers. The wastewater treatment facility has a design capacity of less than 1.0 mgd; therefore, the Discharger is not required to obtain coverage under NPDES General Permit CAS000001.
50. Water Code section 13267(b)(1) states:
- 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 ... shall furnish, under penalty of perjury, technical or monitoring program reports which the board requires. The burden, including costs of these reports, shall bear a reasonable relationship to the need for the reports 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.

The technical reports required by this Order and the attached Monitoring and Reporting Program **R5-2016-XXXX** are necessary to ensure compliance with these waste discharge requirements. The Discharger owns and operates the facility that discharges the waste subject to this Order.

51. The California Department of Water Resources sets standards for the construction and destruction of groundwater wells (hereafter DWR Well Standards), as described in *California Well Standards Bulletin 74-90* (June 1991) and *Water Well Standards: State of California Bulletin 74-81* (December 1981). These standards, and any more stringent standards adopted by the state or county pursuant to Water Code section 13801, apply to all monitoring wells used to monitor the impacts of wastewater storage or disposal governed by this Order.
52. All wastewater management systems at the facility have already been installed and are currently in use and this Order does not permit an increase in capacity. This Order places additional requirements on the continued operation of the facility in order to ensure the protection of waters of the state. The issuance of this Order is therefore exempt from the provisions of CEQA in accordance with California Code of Regulations, title 14, section 15301, which exempts the "operation, repair, maintenance, [and] permitting ... of existing public or private structures, facilities, mechanical equipment, or topographical features" from environmental review.
53. The United States Environmental Protection Agency (EPA) has promulgated biosolids reuse regulations in 40 CFR 503, *Standard for the Use or Disposal of Sewage Sludge*, which establishes management criteria for protection of ground and surface waters, sets application rates for heavy metals, and establishes stabilization and disinfection criteria.
54. The Central Valley Water Board is using the Standards in 40 CFR 503 as guidelines in establishing this Order, but the Central Valley Water Board is not the implementing agency for 40 CFR 503 regulations. The Discharger may have separate and/or additional compliance, reporting, and permitting responsibilities to the EPA.
55. Pursuant to Water Code section 13263(g), discharge is a privilege, not a right, and adoption of this Order does not create a vested right to continue the discharge.

Public Notice

56. All the above and the supplemental information and details in the attached Information Sheet, which is incorporated by reference herein, were considered in establishing the conditions of discharge of this Order.
57. The Discharger and interested agencies and persons have been notified of the intent to prescribe waste discharge requirements for this discharge, and they have been provided an opportunity for a public hearing and an opportunity to submit their written views and recommendations.
58. All comments pertaining to the discharge were heard and considered in a public meeting.

IT IS HEREBY ORDERED that Waste Discharge Requirements Order 85-253 is rescinded and that Laton Community Services District, its agents, successors, and assigns, in order to meet the

provisions contained in Division 7 of the Water Code and regulations adopted hereunder, shall comply with the following:

A. Discharge Prohibitions

1. Discharge of wastes to surface waters or surface water drainage courses is prohibited.
2. Discharge of waste classified as 'hazardous', as defined in the California Code of Regulations, title 22, section 66261.1 et seq., is prohibited.
3. Treatment system bypass of untreated or partially treated waste is prohibited, except as allowed by Standard Provision E.2 of the Standard Provisions and Reporting Requirements for Waste Discharge Requirements.
4. Discharge of waste at a location or in a manner different from that described in the Findings is prohibited.
5. The Discharger shall not allow toxic substances to be discharged into the wastewater treatment system such that biological treatment mechanisms are disrupted.

B. Effluent Limitation

1. Effluent shall not exceed the following limitations [**Compliance shall be determined at EFF-001¹**]:

<u>Constituent</u>	<u>Units</u>	<u>Monthly Average</u>	<u>Daily Maximum</u>
BOD ₅ ¹	mg/L	40	80
TSS ²	mg/L	40	80

¹ Five-day biochemical oxygen demand

² Total suspended solids

2. The maximum electrical conductivity (EC) of the discharge shall not exceed 950 micromhos per centimeter.

C. Discharge Specifications

1. The monthly average dry weather discharge flow shall not exceed 0.2 mgd. [**Compliance shall be determined at EFF-001¹**]
2. The pH of wastewater in the disposal ponds shall not be less than 6.5 or greater than 8.5.
3. No waste constituent shall be released, discharged, or placed where it will be released or discharged, in a concentration or in a mass that causes violation of Groundwater Limitations of this Order.

¹ Monitoring location EFF-001 is described in Monitoring and Reporting Program R5-2016-XXXX

4. Wastewater treatment, storage, and disposal shall not cause pollution or a nuisance as defined by Water Code section 13050.
5. The discharge shall remain within the permitted waste treatment/containment structures at all times.
6. The Discharger shall operate all systems and equipment to optimize the quality of the discharge.
7. All conveyance, treatment, storage, and disposal units shall be designed, constructed, operated, and maintained to prevent inundation or washout due to floods with a 100-year return frequency.
8. Public contact with effluent (treatment works, evaporation/percolation ponds) shall be precluded through such means as fences, signs, or acceptable alternatives.
9. Objectionable odors shall not be perceivable beyond the limits of the WWTF property at an intensity that creates or threatens to create nuisance conditions.
10. As a means of discerning compliance with Discharge Specification C.9, the dissolved oxygen (DO) content in the upper one foot of any wastewater treatment or storage pond shall not be less than 1.0 mg/L for three consecutive sampling events. If the DO in any single pond is below 1.0 mg/L for three consecutive sampling events, the Discharger shall report the findings to the Regional Water Board in writing within 10 days and shall include a specific plan to resolve the low DO results within 30 days.
11. The Discharger shall operate and maintain all ponds sufficiently to protect the integrity of containment dams and berms and prevent overtopping and/or structural failure. Unless a California-registered civil engineer certifies (based on design, construction, and conditions of operation and maintenance) that less freeboard is adequate, the operating freeboard in any pond shall never be less than two feet (measured vertically from the lowest possible point of overflow). As a means of management and to discern compliance with this requirement, the Discharger shall install and maintain in each pond a permanent staff gauge with calibration marks that clearly show the water level at design capacity and enable determination of available operational freeboard.
12. The treatment, storage, and disposal ponds or structures shall have sufficient capacity to accommodate allowable wastewater flow, design seasonal precipitation, and ancillary inflow and infiltration during the winter while ensuring continuous compliance with all requirements of this Order. Design seasonal precipitation shall be based on total annual precipitation using a return period of 100 years, distributed monthly in accordance with historical rainfall patterns.
13. On or about **1 October** of each year, available pond storage capacity shall be at least equal the volume necessary to comply with Discharge Specifications C.11 and C.12.
14. All ponds and open containment structures shall be managed to prevent breeding of mosquitoes. Specifically,

- a. An erosion control plan should assure that coves and irregularities are not created around the perimeter of the water surface.
 - b. Weeds shall be minimized through control of water depth, harvesting, and herbicides.
 - c. Dead algae, vegetation and other debris shall not accumulate on the water surface.
 - d. The Discharger shall consult and coordinate with the local Mosquito Abatement District to minimize the potential for mosquito breeding as needed to supplement the above measures.
 - e. Vegetation management operations in areas in which nesting birds have been observed shall be carried out either before or after, but not during, the April 1 to June 30 bird nesting season.
15. The Discharger shall periodically monitor sludge accumulation in the wastewater treatment/storage ponds and shall remove sludge as necessary to maintain adequate treatment and storage capacity.

D. Solids Disposal Specifications

Sludge in this document means the solid, semisolid, and liquid residues removed during primary or secondary treatment processes. Solid waste refers to grit and screening material generated during preliminary treatment. Residual sludge means sludge that will not be subject to further treatment at the WWTF. Biosolids refers to sludge that has been treated and tested and shown to be capable of being beneficially used as soil amendment for agriculture, silviculture, horticulture, and land reclamation activities pursuant to federal and state regulations.

1. Sludge and solid waste shall be removed from screens, sumps, aeration basins, ponds, clarifiers, etc., as needed to ensure optimal plant operation.
2. Any handling and storage of residual sludge, solid waste, and biosolids on property of the WWTF shall be temporary (i.e., no longer than two years) and controlled and contained in a manner that minimizes leachate formation and precludes infiltration of waste constituents into soils in a mass or concentration that will violate the groundwater limitations of this Order.
3. Residual sludge, biosolids, and solid waste, and biosolids shall be disposed of in a manner approved by the Executive Officer and consistent with Title 27. Removal for further treatment, disposal, or reuse at disposal sites (i.e., landfill, composting sites, and soil amendment sites) operated in accordance with valid waste discharge requirements will satisfy this specification.
4. Use of biosolids as a soil amendment shall comply with valid waste discharge requirements issued by a regional water board or the State Water Board or a local (e.g., county) program authorized by a regional water board. In most cases, this means the General Biosolids Order (State Water Board Water Quality Order No. 2004-12-DWQ, "*General Waste Discharge Requirements for the Discharge of Biosolids to Land for Use as a Soil Amendment in Agricultural, Silvicultural, Horticultural, and Land Reclamation Activities*"). For a biosolids use

project to be authorized by the General Biosolids Order, the Discharger must file a complete Notice of Applicability for each project.

5. Use and disposal of biosolids shall comply with the self-implementing federal regulations of 40 Code of Federal Regulations part 503, which are subject to enforcement by the U.S. EPA, not the Central Valley Water Board. If during the life of this Order, the State accepts primacy for implementation of part 503, the Central Valley Water Board may also initiate enforcement where appropriate.
6. Any proposed change in sludge use or disposal practice shall be reported in writing to the Executive Officer at least 90 days in advance of the change.

E. Groundwater Limitations

1. Release of waste constituents from any treatment, reclamation or storage component associated with the discharge shall not cause or contribute to groundwater:
 - a. Containing constituent concentrations in excess of the concentrations specified below or natural background quality, whichever is greater:
 - (i) Nitrate (as N) of 10 mg/L.
 - (ii) For constituents identified in Title 22, the MCLs quantified therein.
 - b. Containing Total Coliform Organisms over any 7-day period equaling or exceeding 2.2 MPN/100 mL.

F. Provisions

1. The Discharger shall comply with the *Standard Provisions and Reporting Requirements for Waste Discharge Requirements*, dated 1 March 1991 (Standard Provisions), which are part of this Order.
2. The Discharger shall comply with MRP R5-2016-XXXX, which is part of this Order, and any revisions thereto as adopted by the Central Valley Water Board or approved by the Executive Officer.
3. The Discharger shall report promptly to the Central Valley Water Board any material change or proposed change in the character, location, or volume of the discharge.
4. The Discharger shall keep at the WWTF a copy of this Order, including its MRP, Information Sheet, attachments, and Standard Provisions, for reference by operating personnel. Key operating personnel shall be familiar with its contents.
5. The Discharger shall not allow pollutant-free wastewater to be discharged into the WWTF collection, treatment, and disposal systems in amounts that significantly diminish the system's capability to comply with this Order. Pollutant-free wastewater means storm water (i.e., inflow),

groundwater (i.e., infiltration), cooling waters, and condensates that are essentially free of pollutants.

6. The Discharger must comply with all conditions of this Order, including timely submittal of technical and monitoring reports as directed by the Executive Officer. Accordingly, the Discharger shall submit to the Central Valley Water Board on or before each report due date the specified document or, if an action is specified, a written report detailing evidence of compliance with the date and task. If noncompliance is being reported, the reasons for such noncompliance shall be stated, plus an estimate of the date when the Discharger will be in compliance. The Discharger shall notify the Central Valley Water Board by letter when it returns to compliance with the time schedule. Violations may result in enforcement action, including Central Valley Water Board or court orders requiring corrective action or imposing civil monetary liability, or in revision or rescission of this Order.
7. The Discharger must at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) that are installed or used by the Discharger to achieve compliance with the conditions of this Order. Proper operation and maintenance also include adequate laboratory controls and appropriate quality assurance procedures. This Provision requires the operation of back-up or auxiliary facilities or similar systems that are installed by the Discharger only when the operation is necessary to achieve compliance with the conditions of this Order.
8. The Discharger shall provide certified wastewater treatment plant operators in accordance with California Code of Regulations, title 23, division 3, chapter 26.
9. The Discharger shall report to the Central Valley Water Board any toxic chemical release data it reports to the State Emergency Response Commission within 15 days of reporting the data to the Commission pursuant to section 313 of the "Emergency Planning and Community Right to Know Act of 1986."
10. The Discharger shall submit the technical reports and work plans required by this Order for Central Valley Water Board staff consideration and incorporate comments they may have in a timely manner, as appropriate. The Discharger shall proceed with all work required by the following provisions by the due dates specified.
11. All technical reports and work plans required herein that involve planning, investigation, evaluation, or design, or other work requiring interpretation and proper application of engineering or geologic sciences, shall be prepared by or under the direction of persons registered to practice in California pursuant to California Business and Professions Code sections 6735, 7835, and 7835.1. As required by these laws, completed technical reports and work plans must bear the signature(s) and seal(s) of the registered professional(s) in a manner such that all work can be clearly attributed to the professional responsible for the work. All reports required herein are required pursuant to Water Code section 13267.
12. The Discharger shall continue to maintain coverage under, and comply with Statewide General Waste Discharge Requirements for Sanitary Sewer Systems, Water Quality Order No. 2006-0003-DWQ and any revisions thereto as adopted by the State Water Board.

13. In the event of any change in control or ownership of land or waste treatment and storage facilities presently owned or controlled by the Discharger, the Discharger shall notify the succeeding owner or operator of the existence of this Order by letter, a copy of which shall be immediately forwarded to the Central Valley Water Board.
14. To assume operation under this Order, the succeeding owner or operator must apply in writing to the Executive Officer requesting transfer of the Order. The request must contain the requesting entity's full legal name, the state of incorporation if a corporation, the address and telephone number of the persons responsible for contact with the Central Valley Water Board and a statement. The statement shall comply with the signatory paragraph of Standard Provision B.3 and state that the new owner or operator assumes full responsibility for compliance with this Order. Failure to submit the request shall be considered a discharge without requirements, a violation of the Water Code. If approved by the Executive Officer, the transfer request will be submitted to the Central Valley Water Board for its consideration of transferring the ownership of this Order at one of its regularly scheduled meetings.
15. **By 12 months following approval of the planning grant from the State Water Resources Control Board**, the Discharger shall submit a demonstration that it has determined the current land uses for each parcel within a 1 mile radius of the WWTF (including District-owned parcels), identified potential uses of recycled water for each parcel, and appropriately informed land owners and formally requested their consideration of accepting WWTF effluent for a recycled water project. The Discharger shall provide an explanation if no potential uses of recycled water are identified for a particular parcel. Notification of land owners must include pertinent effluent monitoring results and water quality goals for the recycled water uses identified. If the Discharger identifies a feasible recycled water project, the Discharger shall submit a Report of Waste Discharge and arrange for preparation of a Title 22 Engineering Report in accordance with Title 22, section 60323, and a copy of this report shall be provided to the State Water Board Division of Drinking Water. This provision shall be considered satisfied upon submittal by the Discharger of a complete Report of Waste Discharge and a letter from the Division of Drinking Water determining the corresponding Title 22 Engineering Report is complete, or when the Executive Officer concludes that the Discharger has provided sufficient justification for not using effluent for recycled water.
16. If the Central Valley Water Board determines that waste constituents in the discharge have reasonable potential to cause or contribute to an exceedance of an objective for groundwater, this Order may be reopened for consideration of addition or revision of appropriate numerical effluent or groundwater limitations for potential constituents.
17. The Central Valley Water Board is currently implementing the CV-SALTS initiative to develop a Basin Plan amendment that will establish a salt and nitrate management plan for the Central Valley. Through this effort, the Basin Plan may be amended to define how the narrative water quality objectives are to be interpreted for the protection of agricultural use. If new information or evidence indicates that groundwater limitations are different than those prescribed herein are appropriate, this Order will be reopened to incorporate such limits.
18. The Central Valley Water Board will review this Order periodically and will revise requirements when necessary.

If, in the opinion of the Executive Officer, the Discharger fails to comply with the provisions of this Order, the Executive Officer may refer this matter to the Attorney General for judicial enforcement, may issue a complaint for administrative civil liability, or may take other enforcement actions. Failure to comply with this Order may result in the assessment of Administrative Civil Liability of up to \$10,000 per violation, per day, depending on the violation, pursuant to the Water Code, including sections 13268, 13350 and 13385. The Central Valley Water Board reserves its right to take any enforcement actions authorized by law.

Any person aggrieved by this action of the Central Valley Water Board may petition the State Water Board to review the action in accordance with Water Code section 13320 and California Code of Regulations, title 23, section 2050 and following. The State Water Board must receive the petition by 5:00 p.m., 30 days after the date of this Order, except that if the thirtieth day following the date of this Order falls on a Saturday, Sunday, or state holiday, the petition must be received by the State Water Board by 5:00 p.m. on the next business day. Copies of the law and regulations applicable to filling petitions may be found on the Internet at:

http://www.waterboards.ca.gov/public_notices/petitions/water_quality/

or will be provided upon request.

I, PAMELA C. CREEDON, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, Central Valley Region, on _____.

PAMELA C. CREEDON, Executive Officer

Order Attachments:

- A Site Map
 - B Process Flow Diagram
- Monitoring and Reporting Program R5-2016-XXXX
Information Sheet
Standard Provisions (1 March 1991)

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION

MONITORING AND REPORTING PROGRAM R5-2016-XXXX
FOR
LATON COMMUNITY SERVICES DISTRICT
WASTEWATER TREATMENT FACILITY
FRESNO COUNTY

This monitoring and Reporting Program (MRP) is required pursuant to Water Code section 13267.

The Discharger shall not implement any changes to this MRP unless and until the Central Valley Water Board adopts or the Executive Officer issues a revised MRP. Changes to sample location shall be established with concurrence of Central Valley Water Board staff, and a description of the revised stations shall be submitted for approval by the Executive Officer. All samples shall be representative of the volume and nature of the discharge or matrix of material sampled. All analyses shall be performed in accordance with ***Standard Provisions and Reporting Requirements for Waste Discharge Requirements***, dated 1 March 1991 (Standard Provisions).

Field test instruments (such as pH) may be used provided that the operator is trained in the proper use of the instrument and each instrument is serviced and/or calibrated at the recommended frequency by the manufacturer and in accordance with manufacturer instructions.

Analytical procedures shall comply with the methods and holding times specified in the following: *Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater* (EPA); *Test Methods for Evaluating Solid Waste* (EPA); *Methods for Chemical Analysis of Water and Wastes* (EPA); *Methods for Determination of Inorganic Substances in Environmental Samples* (EPA); *Standard Methods for the Examination of Water and Wastewater* (APHA/AWWA/WEF); and *Soil, Plant and Water Reference Methods for the Western Region* (WREP 125). Approved editions shall be those that are approved for use by the United States Environmental Protection Agency or the California Department of Public Health's Environmental Laboratory Accreditation Program. The Discharger may propose alternative methods for approval by the Executive Officer.

If monitoring consistently shows no significant variation in magnitude of a constituent concentration or parameter after at least 12 months of monitoring, the Discharger may request the MRP be revised to reduce monitoring frequency. The proposal must include adequate technical justification for the requested reduction in monitoring frequency.

A glossary of terms used within this MRP is included on [page 8](#).

Monitoring Location Name	Monitoring Location Description
INF-001	Location where a representative sample of the WWTF's influent can be obtained prior to treatment processes.
EFF-001	Location where a representative sample of the WWTF's effluent can be obtained prior to discharge into the evaporation/percolation ponds.
SPL-001	Location where a representative sample of the District's water supply can be obtained.
PND-001 through PND-006	Location/s opposite pond inlet/s where a representative sample can be obtained from each pond.
BIO-001	Location where a representative sample of biosolids can be obtained prior to removal to a licensed facility.

INFLUENT MONITORING

Influent samples shall be collected at the inlet of the headworks at INF-001. Time of collection of the sample shall be recorded. Influent monitoring shall include at least the following:

<u>Frequency</u>	<u>Constituent/Parameter</u>	<u>Units</u>	<u>Sample Type</u>
Continuous	Flow	mgd	Meter
Weekly	pH	pH units	Grab
Weekly	EC	umhos/cm	8-hour Composite
Weekly	TSS	mg/L	8-hour Composite
Weekly	BOD ₅	mg/L	8-hour Composite
Monthly	Monthly Average Discharge Flow	mgd	Computed

EFFLUENT MONITORING

The Discharger shall monitoring treated effluent at EFF-001 as follows. Effluent monitoring shall include at least the following:

<u>Frequency</u>	<u>Constituent/Parameter</u>	<u>Units</u>	<u>Sample Type</u>
Continuous	Flow	mgd	Meter
Weekly	pH	pH Units	Grab
Weekly	EC	umhos/cm	Grab
Monthly	TDS	mg/L	8-hour composite
Weekly	BOD ₅	mg/L	8-hour composite

<u>Frequency</u>	<u>Constituent/Parameter</u>	<u>Units</u>	<u>Sample Type</u>
Weekly	TSS	mg/L	8-hour composite
Monthly	TKN	mg/L	8-hour composite
Monthly	Nitrate (as Nitrogen)	mg/L	8-hour composite
Monthly	Ammonia Nitrate	mg/L	8-hour composite
Monthly	Total Nitrogen	mg/L	Computed
Monthly	Chloride	mg/L	8-hour composite
Monthly	Sodium	mg/L	8-hour composite
Annually	General Minerals	mg/L	8-hour composite

POND MONITORING

Effluent storage pond monitoring shall be collected at PND-1 through PND-6 include at least the following:

<u>Frequency</u>	<u>Constituent/Parameter</u>	<u>Units</u>	<u>Sample Type</u>
Weekly	DO	mg/L	Grab
Weekly	Freeboard	Feet ¹	Observation
Weekly	Odors	---	Observation
Weekly	Berm Condition	---	Observation

¹ To the nearest tenth of a foot.

Permanent markers (e.g., staff gages) shall be placed in all storage ponds. The markers shall have calibrations indicating water level at the design capacity and available operational freeboard.

The Discharger shall inspect the condition of the storage ponds weekly and record visual observations in a bound logbook. Notations shall include observations of whether weeds are developing in the water or along the bank, and their location; whether grease, dead algae, vegetation, scum, or debris are accumulating on the storage pond surface and their location; whether burrowing animals or insects are present; and the color of the reservoirs (e.g., dark green, dull green, yellow, gray, tan, brown, etc.). A summary of the entries made in the log shall be included in the subsequent monitoring report.

SOURCE WATER MONITORING

For each source, the Discharger shall calculate the flow-weighted average concentrations for the specified constituents utilizing monthly flow data and the most recent chemical analysis conducted in accordance with Title 22 drinking water requirements. Alternatively, the Discharger may establish representative sampling stations within the distribution system serving the same area as is served by the WWTF.

<u>Frequency</u>	<u>Constituent/Parameter</u>	<u>Units</u>	<u>Sample Type</u>
Quarterly	Flow-Weighted EC	umhos/cm	Computed Average
Every 3 years ¹	General Minerals	mg/L	Grab

1. Concurrent with required Title 22 drinking water testing

BIOSOLIDS/SLUDGE MONITORING

Biosolids, if intended for land application, shall be collected at BIO-001 and be sampled for the following constituents:

Arsenic	Copper	Nickel
Cadmium	Lead	Selenium
Molybdenum	Mercury	Zinc

Monitoring shall be conducted: using the methods in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods" (SW-846) and updates thereto, as required in Title 40 of the Code of Federal Regulations (40 CFR), Part 503.8(b)(4).

The Discharger shall demonstrate that treated sludge (i.e., biosolids) meets Class A or Class B pathogens reduction levels by one of the methods listed in 40 CFR, Part 503.32.

The Discharger shall track and keep records of the operational parameters used to achieve Vector Attraction Reduction requirements in 40 CFR, Part 503.33(b).

The Discharger needs to demonstrate that the facility where sludge is hauled to complies with Title 40 CFR, Part 503.

REPORTING

All monitoring results shall be reported in **Quarterly Monitoring Reports**, which are due by the first day of the second month after the calendar quarter. Therefore, monitoring reports are due as follows:

First Quarter Monitoring Report:	1 May
Second Quarter Monitoring Report:	1 August
Third Quarter Monitoring Report:	1 November
Fourth Quarter Monitoring Report:	1 February

The Central Valley Water Board has gone to a Paperless Office System. All regulatory documents, submissions, materials, data, monitoring reports, and correspondence should be converted to a searchable Portable Document Format (PDF) and submitted electronically. Documents that are less than 50MB should be emailed to: centralvalleyfresno@waterboards.ca.gov. Documents that are 50MB or larger should be transferred to a disk and mailed to the appropriate regional water board office, in this case 1685 E Street, Fresno, CA, 93706.

To ensure that your submittals are routed to the appropriate staff, the following information block should be included in any email used to transmit documents to this office:

Program: Non-15, WDID: 5D100123001, Facility Name: Laton CSD, Order: R5-2016-XXXX

In reporting monitoring data, the Discharger shall arrange the data in tabular form so that the date, the constituents, and the concentrations are readily discernible. The data shall be summarized in such a manner that illustrates clearly, whether the Discharger complies with waste discharge requirements. In addition to the details specified in Standard Provision C.3, 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 any analytical results for that constituent that are below the RL (or PQL) but above the MDL shall be reported and flagged as estimated.

Laboratory analysis reports do not need to be included in the monitoring reports; however, the laboratory reports must be retained for a minimum of three years in accordance with Standard Provision C.3.

All monitoring reports shall comply with the signatory requirements in Standard Provision B.3. Monitoring data or discussions submitted concerning WWTF performance must also be signed and certified by the chief plant operator. If the chief plant operator is not in direct line of supervision of the laboratory function for a Discharger conducting any of its own analyses, reports must also be signed and certified by the chief of the laboratory.

All monitoring reports that involve planning, investigation, evaluation, or design, or other work requiring interpretation and proper application of engineering or geologic sciences, shall be prepared by or under the direction of persons registered to practice in California pursuant to California Business and Professions Code sections 6735, 7835, and 7835.1.

At any time henceforth, the State or Central Valley Water Board may notify the Discharger to electronically submit monitoring reports using the State Water Board's California Integrated Water Quality System (CIWQS) Program Web site (<http://www.waterboards.ca.gov/ciwqs/index.html>) or similar system. Electronic submittal to CIWQS, when implemented, will meet the requirements of our Paperless Office System.

A. All Quarterly Monitoring Reports shall include the following:

Wastewater Reporting

1. The results of Influent, Effluent, and Pond Monitoring specified on [page 2 and 3](#).
2. For each month of the quarter, calculation of the maximum daily flow and the monthly average flow.
3. For each of the quarters, calculation of the 12-month rolling average EC of the discharge using the EC value for that month averaged with EC values for the previous 11 months.
4. For each month of the quarter, calculation of the monthly average effluent BOD₅ and TSS concentrations, and calculation of the percent removal of BOD₅ and TSS compared to the influent.

5. A summary of the notations made in the pond monitoring log during each quarter. Copies of log pages covering the quarterly reporting period shall not be submitted unless requested by Central Valley Water Board staff.

Source Water Reporting

1. The results of Source Water Monitoring specified on [page 4](#).
2. For each month of the quarter, calculation of the flow-weighted 12-month rolling average EC of the source water using monthly flow data and the source water EC values for the most recent four quarters.

B. Fourth Quarter Monitoring Reports, in addition to the above, shall include the following:

Wastewater Treatment Facility Information

1. The names, certificate grades, and general responsibilities of all persons in charge of wastewater treatment and disposal.
2. The names and telephone numbers of persons to contact regarding the WWTF for emergency and routine situations.
3. A statement certifying when the flow meter and other monitoring instruments and devices were last calibrated, including identification of who performed the calibrations (Standard Provision C.4).
4. A statement whether the current operation and maintenance manual, sampling plan, and contingency plan, reflect the WWTF as currently constructed and operated, and the dates when these documents were last reviewed for adequacy.
5. The results of an annual evaluation conducted pursuant to Standard Provision E.4 and a figure depicting monthly average discharge flow for the previous five calendar years.
6. A summary and discussion of the compliance record for the reporting period. If violations have occurred, the report shall also discuss the corrective actions taken and planned to bring the discharge into full compliance with this Order.

Biosolids/Sludge Monitoring

1. Annual production totals in dry tons or cubic yards.
2. A description of disposal methods, including the following information related to the disposal methods used. If more than one method is used, include the percentage disposed of by each method.
 - a. For landfill disposal, include: the name and location of the landfill, and the Order number of WDRs that regulate it.

- b. For land application, include: the location of the site, and the Order number of any WDRs that regulate it.
 - c. For incineration, include: the name and location of the site where incineration occurs, the Order number of WDRs that regulate the site, the disposal method of ash, and the name and location of the facility receiving ash (if applicable).
 - d. For composting, include: the location of the site, and the Order number of any WDRs that regulate it.
3. Include the results of monitoring specified on pages 4 and 5.

The Discharger shall implement the above monitoring program on the first day of the month following adoption of this Order.

Ordered by: _____
PAMELA C. CREEDON, Executive Officer

(Date)

GLOSSARY

BOD ₅	Five-day biochemical oxygen demand		
CBOD	Carbonaceous BOD		
DO	Dissolved oxygen		
EC	Electrical conductivity at 25° C		
FDS	Fixed dissolved solids		
NTU	Nephelometric turbidity unit		
TKN	Total Kjeldahl nitrogen		
TDS	Total dissolved solids		
TSS	Total suspended solids		
Continuous	The specified parameter shall be measured by a meter continuously.		
8-Hour Composite	Samples shall be a composite of grab samples consisting of at least eight aliquots.		
Daily	Samples shall be collected at least every day.		
Twice Weekly	Samples shall be collected at least twice per week on non-consecutive days.		
Weekly	Samples shall be collected at least once per week.		
Twice Monthly	Samples shall be collected at least twice per month during non-consecutive weeks.		
Monthly	Samples shall be collected at least once per month.		
Bimonthly	Samples shall be collected at least once every two months (i.e., six times per year) during non-consecutive months.		
Quarterly	Samples shall be collected at least once per calendar quarter. Unless otherwise specified or approved, samples shall be collected in January, April, July, and October.		
Semiannually	Samples shall be collected at least once every six months (i.e., two times per year). Unless otherwise specified or approved, samples shall be collected in April and October.		
Annually	Samples shall be collected at least once per year. Unless otherwise specified or approved, samples shall be collected in October.		
mg/L	Milligrams per liter		
mL/L	milliliters [of solids] per liter		
ug/L	Micrograms per liter		
umhos/cm	Micromhos per centimeter		
mgd	Million gallons per day		
MPN/100 mL	Most probable number [of organisms] per 100 milliliters		
General Minerals	Analysis for General Minerals shall include at least the following:		
	Alkalinity	Chloride	Sodium
	Bicarbonate	Hardness	Sulfate
	Calcium	Magnesium	TDS
	Carbonate	Potassium	Nitrate
	General Minerals analyses shall be accompanied by documentation of cation/anion balance		

INFORMATION SHEET

INFORMATION SHEET – ORDER R5-2016-XXXX
LATON COMMUNITY SERVICES DISTRICT
WASTEWATER TREATMENT FACILITY
FRESNO COUNTY

Background

The Laton Community Services District (District) owns and operates a wastewater treatment facility (WWTF) that produces undisinfected secondary treated wastewater. The WWTF consists of a grinder, two lift pumps, an aeration basin, six evaporation/percolation ponds, emergency basin, two concrete lined sludge drying beds, and surrounding bermed land owned by the District which has been utilized for discharge in the past during pond maintenance activities. The Board previously regulated the discharge from the WWTF under Waste Discharge Requirements Order 85-253.

The WWTF serves a population of approximately 1,800. Wastewater gravity flows to the WWTF where it receives secondary treatment prior to disposal in four (now six) evaporation/percolation ponds.

Sludge and Wastewater Disposal

Waste sludge is discharged to two concrete lined drying beds, and then stockpiled onsite before until there is a sufficient quantity to economically remove it.

From the collection system, influent wastewater flows through a grinder then is lifted via two lift pumps for activated sludge treatment in a continuously aerated basin. After treatment in the aeration basin wastewater flows to the clarifier where solids settle out and supernatant flows over the clarifier weirs to a distribution box where the effluent discharge is directed to the evaporation/percolation ponds.

The District removes surface duckweed from the evaporation/percolation ponds using a HIPPO device. Pumped duckweed is collected in a sock or retention basin. As part of this process a small amount of water is pumped onto adjacent District owned fields.

Additional Groundwater Considerations

The WWTF is in the Lower Kings Hydrologic Area (No. 551.80) of the South Valley Hydrologic Unit, as depicted on hydrologic maps prepared by State Water Resources Control Board in August 1986.

Limited published groundwater quality data from the United States Geological Survey (USGS) shows regional wells contain nitrate as nitrogen concentrations below the MCL of 10 mg/L (results range from 0.2-9.94 mg/L). The data also shows EC ranges from 146 to 383 umhos/cm.

Revised Monitoring and Reporting Program 85-253 required the Discharger to develop a monitoring well network at the WWTF. A 14 May 1992 Water Board letter removed the requirement to install a groundwater monitoring network due to recharge from the Kings River and parallel unlined canals on either side of the WWTF introducing flow variables to the groundwater environment that are beyond the scope and intent of the MRP.

Regional groundwater underlying the area is first-encountered at about 130 feet below ground surface (bgs) and flows to the northwest; according to the DWR Groundwater Information Center (GIC) Interactive map using data from Spring 2016.

Additional Regulatory Considerations

The Basin plan states that the evaporation of reclaimable wastewater is not an acceptable permanent disposal method where the opportunity exists to replace an existing use of proposed use of fresh water with reclaimed water.

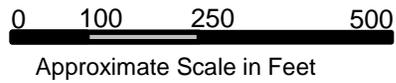
The new Order contains a Provision that requires the District to submit a demonstration that it has determined the current land uses for each parcel within a (1) mile radius of the WWTF (including District-owned parcels), identified potential uses of recycled water for each parcel, and appropriately informed land owners and formally requested their consideration of accepting WWTF effluent for a recycled water project. The Discharger shall provide an explanation to the Board if no potential uses of recycled water are identified for a particular parcel. Notification of landowners must include pertinent effluent monitoring results and water quality goals for the recycled water uses identified. If the Discharger identifies a feasible recycled water project, the Discharger shall submit a Report of Waste Discharge and arrange for preparation of a Title 22 Engineering Report in accordance with Title 22, section 60323, and a copy of this report shall be provided to State Water Resources Control Board, Division of Drinking Water (DDW). This provision shall be considered satisfied upon submittal by the Discharger of a complete Report of Waste Discharge and a letter from DDW determining the corresponding Title 22 Engineering Report is complete, or when the Executive Officer concludes that the Discharger has provided sufficient justification for not using effluent for recycled water.

Legal Effect of Rescission of Prior WDRs or Orders on Existing Violations

The Board's rescission of prior waste discharge requirements and/or monitoring and reporting orders does not extinguish any violations that may have occurred during the time those waste discharge requirements or orders were in effect. The Central Valley Water Board reserves the right to take enforcement actions to address violations of prior prohibitions, limitations, specifications, requirements, or provisions of rescinded waste discharge requirements or orders as allowed by law.

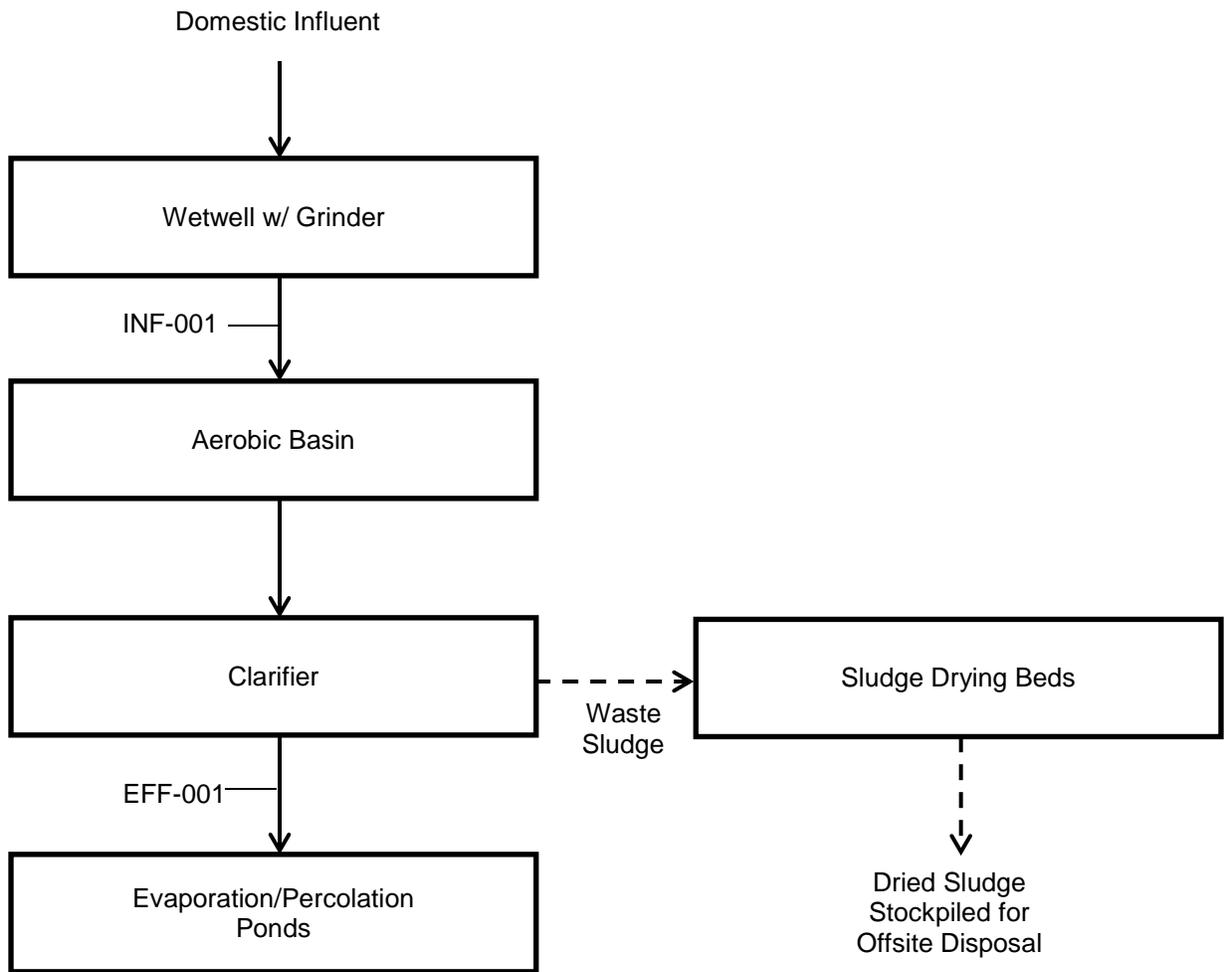


Drawing Reference:
 Google Earth
 Map Data: 2016



SITE MAP
 ORDER R5-2016-XXXX
 WASTE DISCHARGE REQUIREMENTS
 LATON COMMUNITY SERVICES DISTRICT
 FRESNO COUNTY

ATTACHMENT A



NOT TO SCALE

<u>Symbol</u>	<u>Description</u>
—————>	Wastewater
- - - - ->	Sludge
<u>Sampling Points</u>	
INF-001	Influent
EFF-001	Effluent

PROCESS FLOW DIAGRAM
 ORDER R5-2016-XXX
 WASTE DISCHARGE REQUIREMENTS
 FOR
 LATON COMMUNITY SERVICES DISTRICT
 WASTEWATER TREATMENT FACILITY
 FRESNO COUNTY

ATTACHMENT B