



EDMUND G. BROWN JR.
GOVERNOR

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SECRETARY FOR
ENVIRONMENTAL PROTECTION

Central Valley Regional Water Quality Control Board

23 July 2018

Jesse Hampton
Calaveras County Water District
P.O. Box 846
San Andreas, CA 95249

CERTIFIED MAIL
91 7199 9991 7036 7006 7303

NOTICE OF APPLICABILITY

GENERAL WASTE DISCHARGE REQUIREMENTS FOR SMALL DOMESTIC WASTEWATER TREATMENT SYSTEMS ORDER WQ 2014-0153-DWQ

FOR

CALAVERAS COUNTY WATER DISTRICT WILSEYVILLE WASTEWATER TREATMENT PLANT CALAVERAS COUNTY

The Calaveras County Water District (CCWD, Discharger) submitted a Report of Waste Discharge dated 14 November 2017 describing Wilseyville Wastewater Treatment Plant (WWTP) in Calaveras County. Based on the provided information, the domestic wastewater treatment system and discharge at the WWTP is consistent with the requirements of the State Water Resources Control Board (State Water Board) *General Waste Discharge Requirements for Small Domestic Wastewater Treatment Systems*, Order WQ 2014-0153-DWQ (General Order). This Notice of Applicability (NOA) provides notice that the General Order is applicable to the site as described below. You are hereby assigned Order WQ 2014-0153-DWQ-R5279 for the discharge. A copy of the General Order is enclosed and also available at:

http://www.waterboards.ca.gov/board_decisions/adopted_orders/water_quality/2014/wqo2014_0153_dwq.pdf

You should familiarize yourself with the entire General Order and its attachments, which describe mandatory discharge and monitoring requirements. The General Order contains operational and reporting requirements by wastewater system type. Sampling, monitoring, and reporting requirements applicable to your treatment and disposal methods must be completed in accordance with the appropriate treatment system sections of the General Order and the attached Monitoring and Reporting Program (MRP) WQ 2014-0153-DWQ-R5279. The Discharger is responsible for all the applicable requirements that exist in the General Order and this NOA.

KARL E. LONGLEY ScD, P.E., CHAIR | PATRICK PULUPA, ESQ., EXECUTIVE OFFICER

11020 Sun Center Drive #200, Rancho Cordova, CA 95670 | www.waterboards.ca.gov/centralvalley

REGULATORY BACKGROUND

WDRs 98-044, adopted by the Central Valley Regional Water Quality Control Board (Central Valley Water Board) on 27 February 1998, prescribes requirements for the wastewater treatment system and allows a monthly average dry weather discharge flow of 9,000 gallons per day (gpd). WDRs Order 98-044 is proposed to be rescinded at the **4/5 October 2018** meeting of the Central Valley Water Board. Effective upon rescission of Order 98-044, the discharge described in this NOA shall be regulated pursuant to the General Order.

EXISTING FACILITY AND DISCHARGE DESCRIPTION

The WWTP is located at 4027 Railroad Flat Road in Wilseyville, Calaveras County in Sections 14, T6N, and R12E, MDB&M as shown on Attachment A, which is incorporated herein. The Assessor's Parcel Numbers for the WWTP are 10-19-36 (treatment facility) and 10-19-37 (land application area, LAA). The District owns and operates the WWTP, which treats domestic wastewater from 28 Equivalent Dwelling Units including 27 residential connections and a single general store.

Drinking water for the Wilseyville community is supplied by the CCWD's West Point Water Treatment Plant. The source of raw water is Bear Creek, a tributary of the Lower Middle Fork of the Mokelumne River, or from Lower Middle Fork. Drinking water has a TDS concentration of 37 mg/L based on the CCWD's *2016 Annual Water Quality Report*.

The current average dry weather Influent flow (ADWF) ranges from approximately 733 to 2,682 gpd. A summary of the influent flow rates is presented below.

Month	ADWF (gpd)
June, 2013	2,682
September, 2013	No data
June, 2014	2,422
September, 2014	850
June, 2015	856
September, 2015	938
June, 2016	909
September, 2016	1,792
June, 2017	No data
September, 2017	733

The WWTP was constructed in 1985 and designed for a flow of 9,000 gpd. The WWTP consists of an unlined aerated stabilization pond and a LAA. The pond provides both wastewater treatment and storage with an approximate capacity of 12.2 acre-feet based on two feet of free board. The LAA includes five acres of sprayfield and five acres of buffer area. The LAA has not been used in recent years. Low influent flow versus design flow combined with evaporation and percolation rates typically meet disposal requirements. An influent flow meter is located upstream of the stabilization pond and a 15.0-foot long staff

gauge located inside the pond. The RWD indicated that the WWTP has a design loading rate of 20 pounds per day for Biochemical Oxygen Demand (BOD₅); BOD₅ reduction is anticipated to be 80 to 90 percent. However, effluent BOD data have not been collected because effluent has not been applied to the LAA in recent years.

Disposal of wastewater is accomplished by a combination of percolation and evaporation in the pond. Additional disposal can be accomplished with land application at the LAA. Prior to application on the LAA, pond supernatant is first pumped through an automatic self-backwashing strainer before being applied to the LAA. Tailwater from the LAA is collected in the catchment basin which drains into the stabilization pond. The site plan and the process schematic are shown on Attachment B and C, respectively, which are incorporated herein. A summary of wastewater quality in the pond is presented below.

Quarter	pH				Electrical Conductivity (µmhos/cm)			
	2013	2014	2015	2016	2013	2014	2015	2016
1 st	6.1	5.5	6.5	6.8	183	264	318	199
2 nd	6.1	6.4	6.9	6.7	214	232	303	176
3 rd	5.6	6.8	7.5	8.2	251	280	352	180
4 th	5.7	6.6	7.2	8.8	224	587	604	262

Solids management consists of measurement of solids accumulation in stabilization pond utilizing a Sludge Judge®. This generally performed every twelve months. When required these solids are removed from the pond and transported to the La Contenta Wastewater Treatment Facility for additional treatment, dewatering, and disposal.

SITE-SPECIFIC REQUIREMENTS AND EFFLUENT LIMITS

Note that the General Order contains prohibitions and specifications that apply to all wastewater treatment systems as well as those that only apply to specific treatment and/or disposal systems. The specific requirements for the treatment system are summarized below.

The wastewater treatment operator must be certified and familiar with the requirements contained in the General Order, this NOA, and the MRP.

Requirements by Wastewater System Type, Section B of General Order

B.1 All Wastewater Systems

This applies in its entirety to the WWTP with the following site specific requirements.

B.1.a. Flow Limit.

Influent flow to the WWTP shall not exceed **9,000 gpd** as an average dry weather flow defined as the total flow for the months of July through September divided by 92 days.

B.1.I. Wastewater System Setbacks.

Equipment or Activity	Domestic Well	Flowing Stream	Ephemeral Stream Drainage	Property Line	Lake or Reservoir
Aerobic Treatment Unit, Treatment System or Collection System ¹	150 ft.	50 ft.	50 ft.	5 ft.	200 ft.
Impoundment ¹	150 ft.	150 ft.	150 ft.	50 ft.	200 ft.
Land Application Area ¹	150 ft.	100 ft.	100 ft.	100 ft.	200 ft.

¹ Reference setbacks in Table 3 of General Order.

B.5 Pond Systems

The WWTP contains a storage and disposal pond; therefore, this section applies in its entirety.

B.7 Land Application and/or Recycled Water Systems

The WWTP contains a LAA; therefore, this section applies in its entirety.

MONITORING AND REPORTING PROGRAM

The Discharger shall comply with MRP WQ 2014-0153-DWQ-R5279, which is incorporated herein.

ENFORCEMENT

Please review this NOA carefully to ensure that it completely and accurately reflects the discharge. Discharge of wastes other than those described in this NOA is prohibited. Prior to allowing changes to the wastewater strength or generation rate, or to the method of waste disposal, you must contact the Central Valley Water Board to determine if submittal of an RWD is required.

The Discharger generates the waste subject to the terms and conditions of WQ 2014-0153-DWQ-R5279 and maintains exclusive control over the discharge. As such, CCWD is primarily responsible for compliance with this NOA, MRP, and General Order, with all attachments. Failure to comply with the requirements in the General Order or this NOA could result in an enforcement action as authorized by provisions of the California Water Code.

ANNUAL FEES

Staff has determined the discharge is a threat to water quality and complexity rating of 3-B. The annual fee corresponding to a threat to water quality and complexity of 3-B is currently \$4,699; however, because the permitted flow is less than 50,000 gpd, the discharge qualifies for the 50-percent fee discount. Therefore, the annual fee for this discharge is currently \$2,349. The fee is due and payable on an annual basis until coverage under the General Order is formally rescinded. Please note that the annual fees are reviewed each year and may change. If the wastewater discharge ceases, you must provide written notice so that we can terminate coverage under the General Order and no longer bill you.

DOCUMENT SUBMITTAL

All monitoring reports and other correspondence should be converted to searchable Portable Document Format (PDF) and submitted electronically. Documents that are less than 50 MB should be emailed to:
centralvalleysacramento@waterboards.ca.gov.

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 any documentation submitted to the mailing address for this office:

Facility Name: Wilseyville Wastewater Treatment Plant, Calaveras County		
Program: Non-15 Compliance	Order: WQ 2014-0153-DWQ-R5279	CIWQS Place ID: CW-272716

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

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

Now that the Notice of Applicability has been issued, the Board's Compliance and Enforcement section will take over management of your case. Kenny Croyle is your new point of contact for any questions about the General Order. If you find it necessary to make a change to your permitted operations, Kenny will direct you to the appropriate Permitting staff. You may contact Kenny at (916) 464-4676 or at kcroyle@waterboards.ca.gov.

Original signed by Andrew Altevogt for

Patrick Pulupa
Executive Officer

enc: Water Quality Order WQ 2014-0153-DWQ
Monitoring and Reporting Program WQ 2014-0153-DWQ-R5279
Attachment A, Site Location Map
Attachment B, Site Plan
Attachment C, Process Schematic
Monitoring Report Transmittal Sheet

cc w/out enc: Timothy O'Brien, State Water Resources Control Board, Sacramento
Brian Moss, Calaveras County Environmental Health Department, San Andreas

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION
MONITORING AND REPORTING PROGRAM WQ 2014-0153-DWQ-R5279

FOR
CALAVERAS COUNTY WATER DISTRICT
WILSEYVILLE WASTEWATER TREATMENT PLANT
CALAVERAS COUNTY

This Monitoring and Reporting Program (MRP) presents requirements for monitoring of the wastewater influent, effluent, storage reservoir, sludge, and water supply monitoring. 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 Executive Officer.

All wastewater samples should be representative of the volume and nature of the discharge. The time, date, and location of each grab sample shall be recorded on the sample chain of custody form. Wastewater flow monitoring shall be conducted continuously using a flow meter and shall be reported in cumulative gallons per day.

Field test instruments (such as pH and dissolved oxygen) may be used if:

1. The operator is trained in the proper use of the instrument;
2. The instruments are field calibrated prior to each use;
3. Instruments are serviced and/or calibrated by the manufacturer at the recommended frequency; and
4. Field calibration reports are submitted as described in the "Reporting" section of this MRP.

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. Where technically feasible, laboratory reporting limits shall be lower than the applicable water quality objectives for the constituents to be analyzed.

INFLUENT MONITORING

Influent flow monitoring shall be performed at the headworks. Influent monitoring shall include the following:

<u>Constituent</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>	<u>Reporting Frequency</u>
Flow	gpd	Meter	Monthly	Monthly

POND MONITORING

The treatment and storage pond shall be monitored as follows. If the pond is empty on the scheduled monitoring date, the Discharger may report the freeboard monitoring result as “dry”.

<u>Constituent</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>	<u>Reporting Frequency</u>
Total Dissolved Solids	mg/L	Grab	Monthly	Monthly
Nitrate as Nitrogen	mg/L	Grab	Monthly	Monthly
Total Kjeldahl Nitrogen	mg/L	Grab	Monthly	Monthly
pH	Standard Units	Grab	Weekly	Monthly
BOD ₅	mg/L	Grab	Weekly	Monthly
Dissolved Oxygen ¹	mg/L	Grab	Weekly	Monthly
Freeboard	0.1 feet	Measurement	Weekly	Monthly
Odors	--	Observation	Weekly	Monthly
Levee condition ²	--	Observation	Weekly	Monthly

¹ If the pond is too low to take a dissolved oxygen reading, then this shall be noted on the monthly monitoring report.

² Containment levees shall be observed for signs of seepage, animal burrows, or surfacing water along the exterior toe of the levees. If surfacing water is found, then a sample shall be collected and tested for total coliform organisms and total dissolved solids.

EFFLUENT MONITORING

Samples of effluent shall be collected prior to discharge to the Land Application Area (LAA). Effluent monitoring shall consist of the following:

<u>Constituent</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>	<u>Reporting Frequency</u>
Flow ¹	gpd	Continuous	Daily	Monthly
BOD ₅	mg/L	Grab	Weekly	Monthly
pH	Standard Units	Grab	Weekly	Monthly
Total Dissolved Solids	mg/L	Grab	Monthly	Monthly
Nitrate as Nitrogen	mg/L	Grab	Monthly	Monthly
Total Kjeldahl Nitrogen	mg/L	Grab	Monthly	Monthly
Standard Minerals ²	mg/L	Grab	Annually	Annually

¹ Flow may be monitored from the pump station that conveys effluent to the LAA.

² Standard Minerals shall include, at a minimum, the following elements/compounds: boron, calcium, chloride, magnesium, potassium, sodium, sulfate, total alkalinity (including alkalinity series), and hardness.

LAND APPLICATION AREA MONITORING

Monitoring of the LAA shall be conducted daily when it is being used and irrigation is occurring, and the results shall be included in the monthly monitoring report. **The monthly report shall clearly states whether or not the LAA was used during that month.** All land application area shall be inspected following an irrigation event to identify any equipment malfunction or other circumstance that might allow treated water to runoff the LAA and/or create ponding conditions that violate the Waste Discharge Requirements. Evidence of erosion, saturation, irrigation runoff, or the presence of

nuisance conditions shall be noted in the report. A log of these inspections as well as any public complaints of runoff shall be kept at the facility and made available for review upon request.

Effluent monitoring results shall be used in calculations to ascertain loading rates at the LAA. Monitoring of the LAA shall include the following:

<u>Constituent</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>	<u>Reporting Frequency</u>
Flows to Spray Fields	gpd	Flow Meter Observation	Daily	Monthly
Acreage Applied ¹	Acres	Calculated	Daily	Monthly
Water Application Rate	gal/acre/day	Calculated	Daily	Monthly
Total Nitrogen Loading Rate ²	lbs/ac/month and cumulative lbs/ac/year	Calculated	Monthly	Monthly
Total Dissolved Solids Loading Rate	lbs/ac/month and cumulative lbs/ac/year	Calculated	Monthly	Monthly
Rainfall ³	Inches	Observation	Daily	Monthly

¹ Land application area shall be identified and a map identifying all land application area should be included.

² Including contributions from applied fertilizer.

³ Rainfall data should be collected from the weather station that is nearest to the land application areas.

SOLID WASTE AND SLUDGE MONITORING

A grab sample of digested sludge shall be collected at least once per year when sludge is removed from the wastewater treatment system for disposal in accordance with EPA's POTW Sludge Sampling and Analysis Guidance Document, August 1989, and analyzed for cadmium, copper, nickel, chromium, lead, and zinc. Sampling records shall be retained for a minimum of five years.

A log shall be kept if solid waste (grits and screenings) and sludge quantities generated and of handling and disposal activities, and shall be submitted as part of the monthly monitoring reports.

WATER SUPPLY MONITORING

A sampling station shall be established where a representative sample of the municipal water supply can be obtained. Water supply monitoring shall include at least the following for each water source used during the previous year:

<u>Constituents</u>	<u>Units</u>	<u>Sampling Frequency²</u>	<u>Reporting Frequency</u>
Total Dissolved Solids	mg/L	Annually	Annually
pH	pH units	Annually	Annually
Standard Minerals ¹	mg/L	Annually	Annually

¹ Standard Minerals shall include, at a minimum, the following elements/compounds: barium, calcium, magnesium, sodium, potassium, chloride, nitrogen, sulfate, total alkalinity (including alkalinity series), and

hardness.

- ² As an alternative to annual water supply monitoring, the Discharger may submit results of the most current DHS water supply monitoring data.

REPORTING

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:

centralvalleysacramento@waterboards.ca.gov

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

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ECM Mailroom

11020 Sun Center Drive, Suite 200

Rancho Cordova, California 95670

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

Facility Name: Wilseyville Wastewater Treatment Plant, Calaveras County		
Program: Non-15 Compliance	Order: WQ 2014-0153-DWQ-R5279	CIWQS Place ID: 272716

In reporting monitoring data, the Discharger shall arrange the data in tabular form so that the date, sample type (e.g., effluent, pond, etc.), and reported analytical result for each sample are readily discernible. The data shall be summarized in such a manner to clearly illustrate compliance with waste discharge requirements and spatial or temporal trends, 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 scheduled monitoring report.

In addition to the requirements of 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.

A. Monthly Monitoring Reports

Monthly reports shall be submitted to the Regional Board by the **1st day of the second month** following the end of the reporting period (i.e. the January monthly report is due by 1 March). At a minimum, the reports shall include:

1. Results of the influent, effluent, pond, LAA, solid wastes and sludge monitoring;
2. A comparison of the monitoring data to the discharge specifications and an explanation of any violation of those requirements;
3. If requested by staff, copies of laboratory analytical report(s); and
4. Date(s) on which the monitoring instruments were calibrated.

B. Annual Report

In addition to the monthly and semi-annual monitoring reports, an Annual Report shall be prepared. The Annual Report shall be submitted to the Central Valley Water Board by **1 February** each year. The Annual Report shall include the following:

1. The results from annual monitoring of the effluent and water supply;
2. If requested by staff, tabular and graphical summaries of all data collected during the year;
3. A discussion of compliance and the corrective actions taken, as well as any planned or proposed actions needed to bring the discharge into full compliance with the waste discharge requirements;
4. A discussion of any data gaps and potential deficiencies/redundancies in the monitoring system or reporting program;
5. A copy of the certification for each certified wastewater treatment plant operator working at the facility and a statement about whether the Discharger is in compliance with Title 23, CCR, Division 3, Chapter 26.
6. The results from any sludge monitoring required by the disposal facility; and
7. A forecast of influent flows, as described in Standard Provision No. E.4.

A letter transmitting the self-monitoring reports shall accompany each report. Such a letter shall include a discussion of requirement violations found during the reporting period, and actions taken or planned for correcting noted violations, such as operation or facility modifications. If the Discharger has previously submitted a report describing corrective actions and/or a time schedule for implementing the corrective actions, reference to the previous correspondence will be satisfactory.

The transmittal letter shall contain the penalty of perjury statement by the Discharger, or the Discharger's authorized agent, as described in the Standard Provisions General Reporting Requirements Section B.3.

The first monthly monitoring report required under MRP WQ 2014-0153-DWQ-R5279 is due on **1 December 2018** and is to cover the month of **October 2018**.

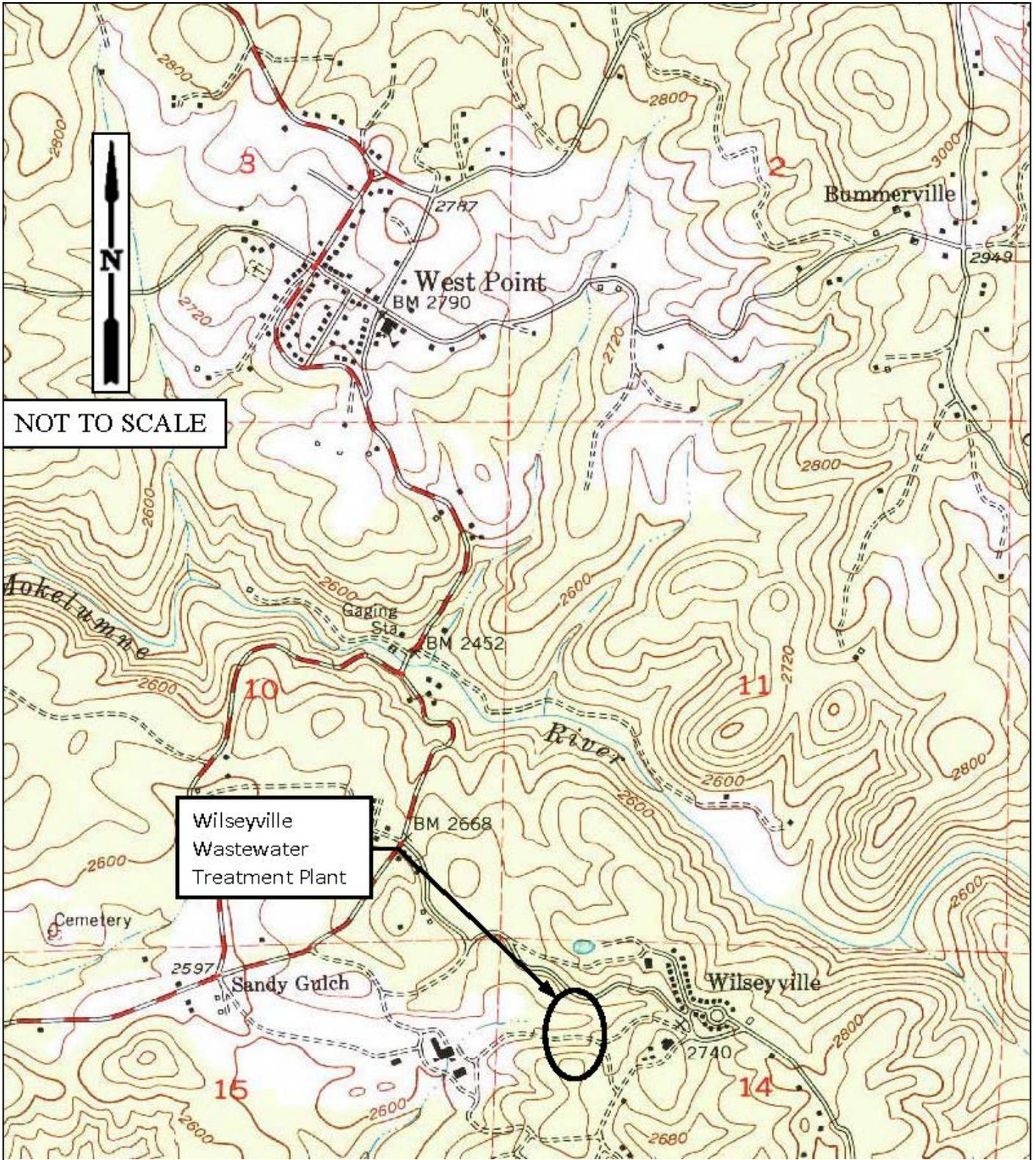
Ordered by:

Original signed by

Patrick Pulupa, Executive Officer

23 July 2018

(Date)

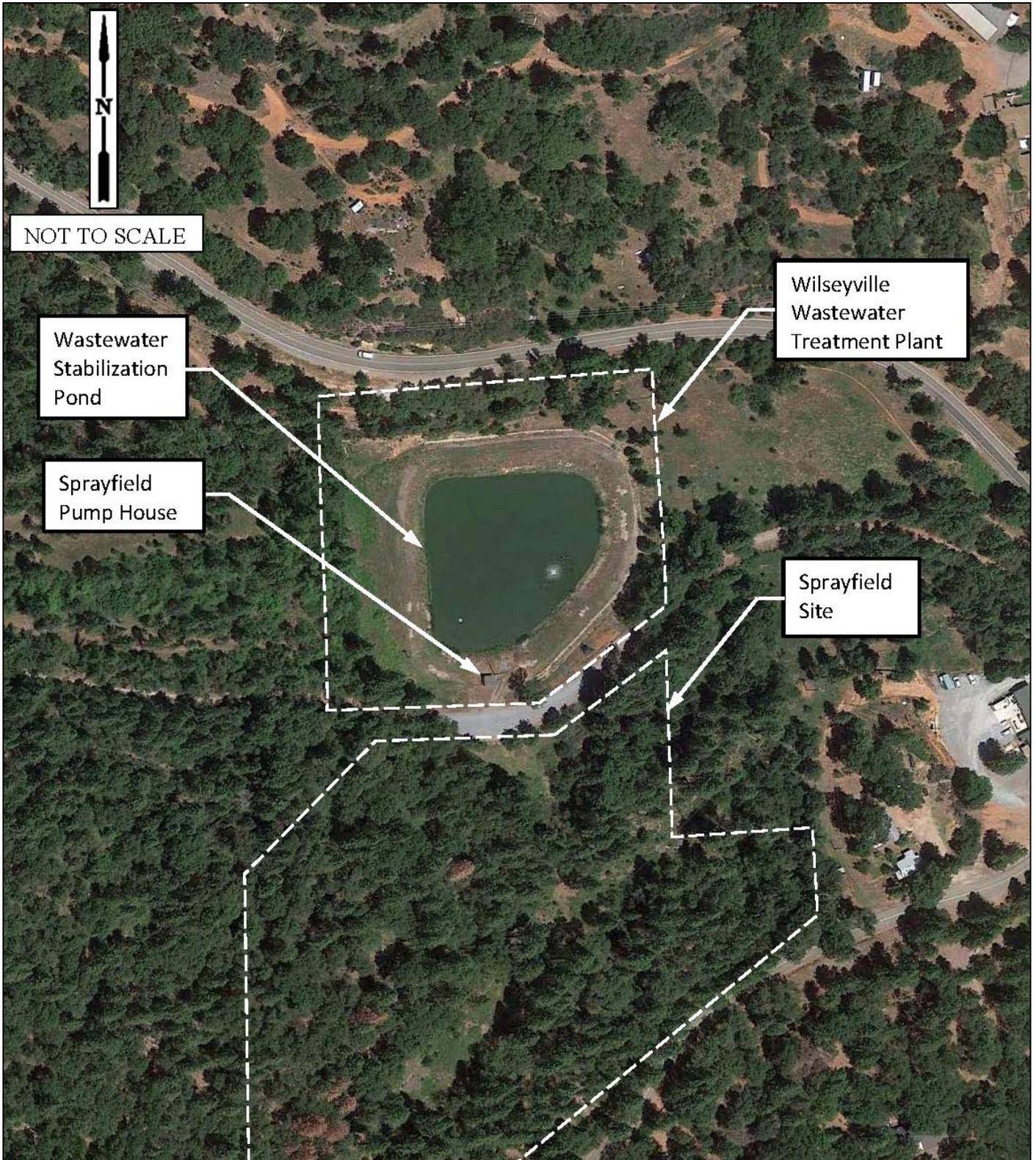


Drawing Reference:

Calaveras County Water District
RWD, November 2017

SITE LOCATION MAP

**CALAVERAS COUNTY WATER DISTRICT
WILSEYVILLE WASTEWATER TREATMENT PLANT**

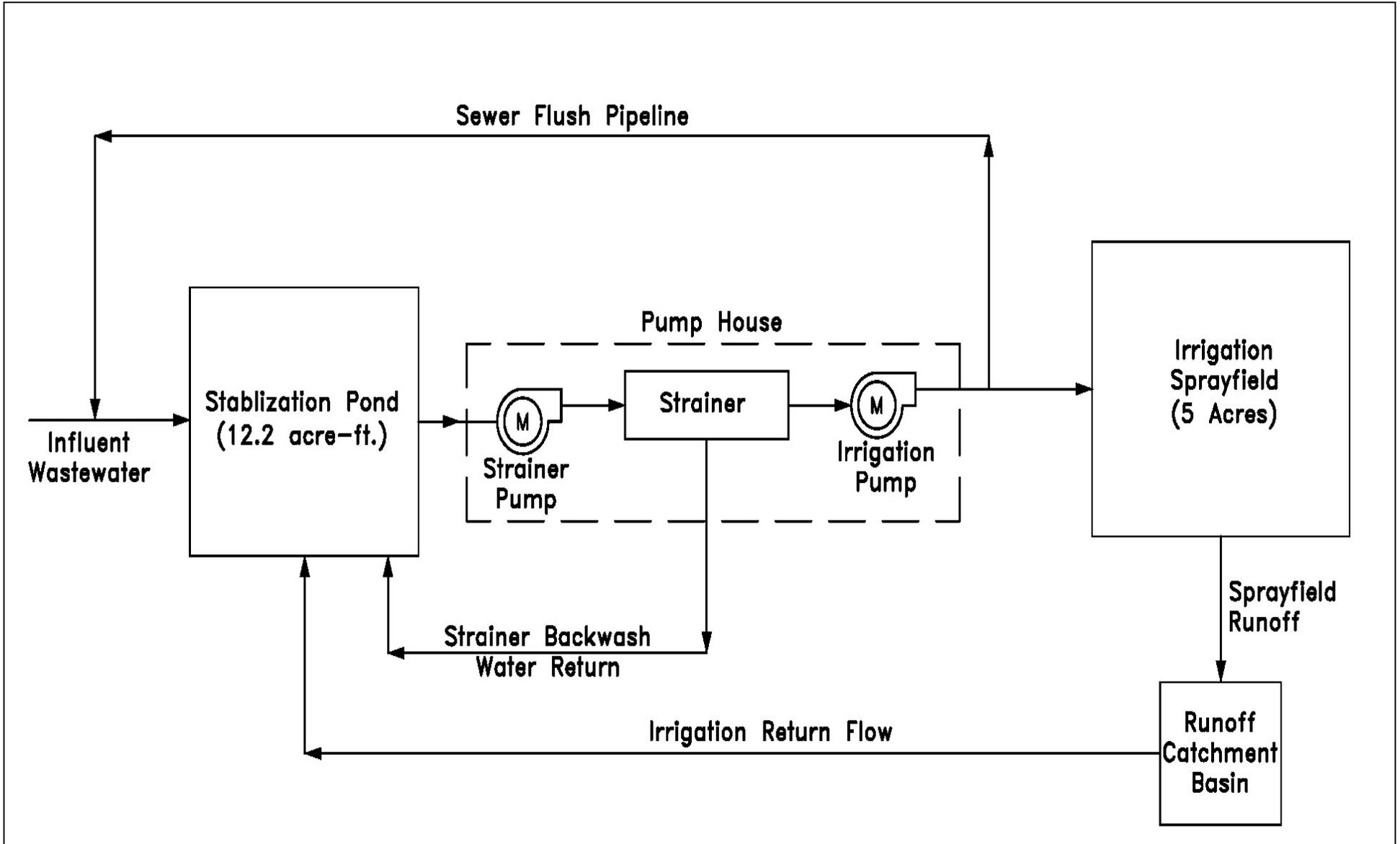


Drawing Reference:

Calaveras County Water District
RWD, November 2017

SITE MAP

**CALAVERAS COUNTY WATER DISTRICT
WILSEYVILLE WASTEWATER TREATMENT PLANT**



Drawing Reference:
Calaveras County Water District
RWD, November 2017

PROCESS SCHEMATIC
CALAVERAS COUNTY WATER DISTRICT
WILSEYVILLE WASTEWATER TREATMENT PLANT