RECLAMATION

Managing Water in the West

Revised: May 2022

San Luis Canal Non-Project Water Pump-in Program Water Quality Monitoring Plan





U.S. Department of the Interior Bureau of Reclamation Mid-Pacific Region South-Central California Area Office

Mission Statements

The mission of the Department of the Interior is to protect and provide access to our Nation's natural and cultural heritage and honor our trust responsibilities to Indian Tribes and our commitments to island communities.

The mission of the Bureau of Reclamation is to manage, develop, and protect water and related resources in an environmentally and economically sound manner in the interest of the American public.

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| List of Abbrev | viations and Acronyms |
| Check 13 | San Luis Canal Milepost 66.74, O'Neill Forebay |
| Check 21 | San Luis Canal Milepost 172.44, near Kettleman City |
| CVP | Central Valley Project |
| DWR | California Department of Water Resources |
| EC | Electrical conductivity, µS/cm |
| Lateral 7 | Westlands Water District facility connected to the San Luis Canal at Milepost 115.43L |
| mg/L | milligrams per liter, equivalent to parts per million |
| Reclamation | U.S. Department of the Interior, Bureau of Reclamation |
| San Luis Canal | The federal portion of the California Aqueduct |
| TDS | Total dissolved solids, mg/L |
| Title 22 | California Drinking Water Standards |
| μg/L | micrograms per liter, equivalent to parts per billion |
| μS/cm | microSiemens per cm, salinity in water |
| Westlands/District | Westlands Water District |

Definitions

Non-Project Water means surface or ground water:

- 1) Pumped, diverted, and/or stored based upon the exercise of water rights which have not been appropriated or acquired by, or apportioned to, the United States or others, or which have not been decreed, permitted, certificated, licensed, or otherwise granted to the United States or others, for a Reclamation project, or
- 2) Water not reserved or withdrawn from appropriation by the United States for, nor allocated by the United States to, a Reclamation project.

Excess Capacity means diversion, storage, conveyance, or pumping capacity in project facilities which is excess to that needed to achieve a Reclamation project's authorized purposes.

Max Depth to Groundwater (Max DTGW) represents the maximum depth to groundwater measurement collected from an individual well.

Fall/Winter Median Groundwater Level represents the average historical recovery level for each well. Determined by using groundwater level data recorded in the Fall/Winter after the well has had time to recover from irrigation season. The timeframe for median groundwater levels may vary depending on individual farm usage. Reclamation reserves the right to re-evaluate these data, if needed, as new data becomes available.

Introduction

This document has been prepared by the U.S. Department of the Interior, Bureau of Reclamation (Reclamation), in cooperation with the California Department of Water Resources (DWR) and the State Water Contractors.

Under the Warren Act of 1911, Reclamation may execute temporary contracts to convey non-project water in excess capacity in federal irrigation canals.

Reclamation proposes to enter into a 5-year Warren Act contract with Westlands. Under the terms of the contract, Westlands would introduce up to 30,000 acre-feet per year of non-Central Valley Project (CVP) water into the San Luis Canal (SLC) in years in which Westlands' CVP allocation is 20 percent or less. The period of introduction would be between April 1 and August 31 of a given year. However, as it was not possible to begin conveyance by April 1, 2020, the conveyance period for this year would be shifted by six months, to between October 5 and December 31. All subsequent years would use the April 1 to August 31 window.

The source of the non-CVP water would be pumped from groundwater wells within Westlands' district boundaries as well as other sources of non-CVP water by way of the Mendota Pool and Mendota Pool Inlet Canal. The amount of water from each source would vary, but the

total quantity introduced under the Proposed Action would not exceed a combined volume of 30,000 acre-feet in a given year.

This document describes the plan for measuring the changes in the quality of water in the SLC caused by the conveyance of this non-project water, in addition to changes in groundwater elevation to estimate subsidence.

San Luis Canal Non-Project Water Monitoring Program fundamental assumptions:

- 1) All sources of non-project water discharged into the SLC must comply with California Drinking Water standards (Title 22)¹. No in-canal dilution is allowed.
- 2) Each source of non-project water must be tested regularly to confirm that it is consistent, predictable, and acceptable in quality.
- 3) Staff from DWR will use real-time monitoring of salinity and turbidity in water in the SLC to identify any problems caused by the addition of the non-project water.

There are three potential sources of non-project water:

- 1) Groundwater pumped from wells adjacent to the SLC (Canal Integration Program);
- 2) Groundwater from wells that pump into the Lateral 7 inlet canal;
- 3) Groundwater pumped into the Mendota Pool by Mendota Pool Group participating wells.

Monitoring Mission and Goals

The mission of this monitoring program is to produce physical measurements that will determine the changes in the quality of water in SLC caused by the conveyance of non-project water. Data will be used to administer the terms of Warren Act Contracts and other exchange agreements, and to ensure that the quality of CVP water is suitable for downstream water users. The monitoring program will also measure changes to groundwater resources to prevent subsidence problems to local facilities.

The general goals of this monitoring plan are:

1) Evaluate the quality of water in each source of non-project water;

¹ California Code of Regulations, Title 22. The Domestic Water Quality and Monitoring Regulations specified by the State of California Health and Safety Code (Sections 4010 4037), and Administrative Code (Sections 64401 et seq.), as amended.

http://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/documents/lawbook/dwregulations-2017-04-10.pdf

- 2) Confirm that non-project water entering the SLC is suitable for all downstream users;
- 3) Provide reliable data for administration of the contracts and agreements; and
- 4) Provide measurements of depth to groundwater to prevent subsidence.

Study Area

The Study Area (**Figure 1**) encompasses the SLC from the O'Neill Forebay (Check 13) to Kettleman City (Check 21), which is the federal portion of the California Aqueduct. **Figure 2** depicts the wells in Westlands along the SLC.

The study area also includes Westlands Lateral 7. For this program, Lateral 7 will be treated as one point of discharge. Water quality in Lateral 7 will be measured at the Adams Avenue pumping plant.

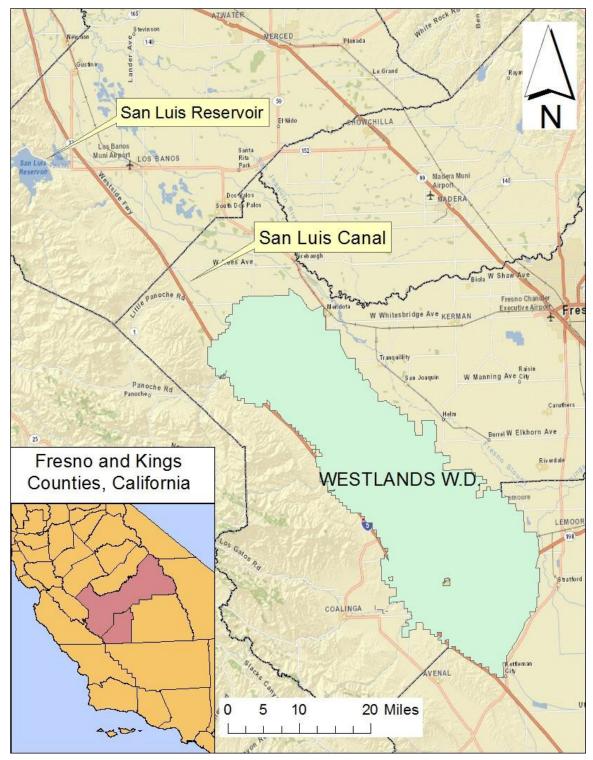


Figure 1. Project vicinity map

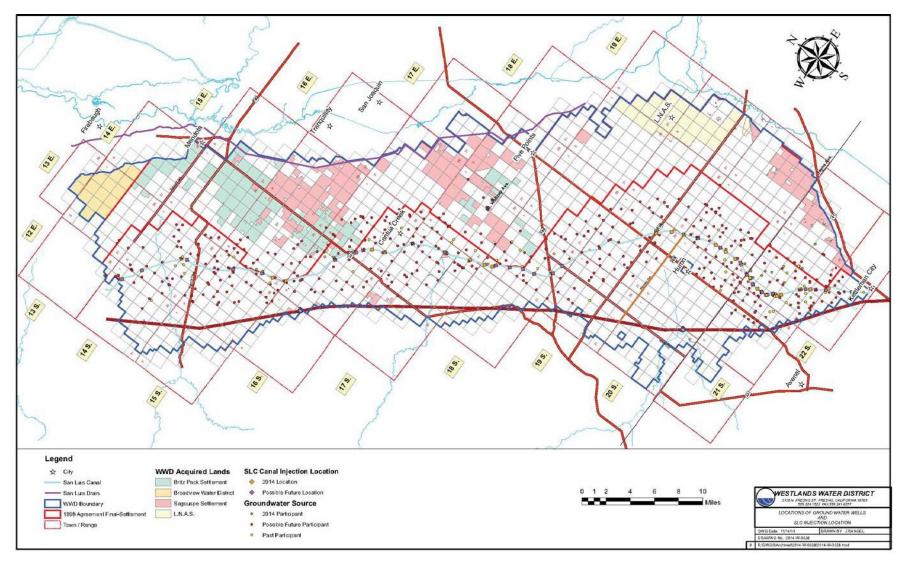


Figure 2. Location of Groundwater Wells within Westlands

Water Quality Monitoring Plan

All non-project water must meet the standards listed in **Tables 5 and 6** prior to entering the SLC. No dilution in the SLC will be allowed. Manifolded wells may discharge if the blend meets the standards listed in **Tables 5 and 6**.

All water quality analyses must be conducted by a laboratory listed in **Table 7**. All water samples must be sampled and preserved according to established protocols in correct containers. The costs of sampling and analysis of all non-project water will be borne by the well operators.

Sampling

Mendota Pool Group wells participating in this program are regulated by the Mendota Pool Group Groundwater Pump-in Program Monitoring Plan (MPG Monitoring Plan). These wells must meet the requirements outlined in the MPG Monitoring Plan prior to introduction into the Mendota Pool. To prevent redundant data collection, Mendota Pool Group wells are exempt from Baseline and Routine Sampling of Individual wells and Depth to Groundwater sampling as outlined in this document, this data is collected under the MPG Monitoring Plan. The cumulative effect of Mendota Pool water will be measured at Lateral 7.

Baseline Sampling of Individual Wells

Table 5 is a short list of constituents of concern to be measured in each well each year before pumping into the SLC to screen out non-compliant wells². There will be a one-time screening for the presence of Perfluorooctanoic acid (PFOA) and Perfluorooctanesulfonic acid (PFOS) and if detected, Reclamation and DWR will work with Westlands on conducting additional sampling. Reference **Table 5** for new PFOA and PFOS sampling. Wells that do not meet this short list may not participate in the program.

Each well must be tested every three years for all constituents listed in **Table 6** before pumping in the SLC. Each report must clearly identify the location of each source of non-project water.

Reclamation, in coordination with DWR and the State Water Contractors, may allow minor exceedances of certain secondary Title 22 constituents if all primary standards are met.

All new wells proposed to participate in the program must be approved by Reclamation prior to discharging any groundwater into the SLC or Lateral 7.

² Reclamation will provide instructions for sampling groundwater.

Routine Sampling of Individual Wells

Each well must be tested weekly during the first four weeks of pumping for the short list of constituents (**Table 5**), then monthly while actively pumping into the SLC to confirm that the water quality is consistent, predictable, and reliable.

The short list may be modified, in consultation with DWR, to add constituents of concern or drop non-detected constituents.

Reclamation will allow the introduction of water from two or more wells through one discharge point if the blended water meets the Title 22 standards. Special monitoring may be required for these situations.

The following information must be submitted to Reclamation prior to pumping groundwater into the SLC:

- the location of each well, pumping rate, and point of discharge into the SLC;
- complete Title 22 water quality analyses for each well
- the depth to groundwater in each well before pumping into the SLC commences

When the Project is operating, Westlands will provide DWR and Reclamation with weekly schedules which identify the flow from the active wells.

Westlands will provide weekly updates identifying the current and anticipated water quality changes within the SLC by using the daily model. The goal is to provide Reclamation and the State Water Project Facilitation Group with a day-to-day prediction of downstream water quality using real-time pump-ins, real-time upstream background flows, and current background water quality data.

Lateral 7 Sampling

Non-project water will only enter Lateral 7when water is being pumped into the SLC, not when flow is entering the Mendota Pool.

Westlands must collect samples from Lateral 7 at the Adams Avenue pump station. Lateral 7 water must be tested for the full suite of Title 22 (**Table 6**) every year. **Table 5** constituents will be sampled weekly for the first four weeks, then monthly for the duration of pumping at the locations listed in **Table 3**. There will be a one-time screening for the presence of Perfluorooctanoic acid (PFOA) and Perfluorooctanesulfonic acid (PFOS) from Lateral 7 at Adams Avenue pump station and if detected, Reclamation and DWR will work with Westlands on conducting additional sampling. Reference **Table 5** for new PFOA and PFOS sampling.

Westlands must take weekly field measures for EC and turbidity at locations listed in **Table 3**.

Depth to Groundwater

Well owners will measure the initial depth to groundwater in each well before pumping into the SLC, and monthly from October through December and every other month outside of that range while the Pump-in Program is in effect. Measurements must be made using industry approved methods.

An individual well will be shutoff when its Depth to Groundwater reaches 75% of the difference between the Fall/Winter Median Groundwater Level and the Max DTGW using the following equation:

 $Shutoff\ Trigger = 0.75*(Max\ DTGW-Fall/Winter\ Median) + Fall/Winter\ Median$

If an individual well is shutoff due to groundwater levels reaching the shutoff trigger, it will not be allowed to resume pumping until it reaches 70% of the difference between the Fall/Winter Median Groundwater Level and the Max DTGW using the following equation:

Well Resumption= 0.70* (Max DTGW-Fall/Winter Median) + Fall/Winter Median

Groundwater level measurements will follow a strict schedule. If a well is shutoff it will not be measured again until the next scheduled measurement date. The participants must notify Reclamation in writing when a well is shutoff or resuming. See Definitions section for explanation for Max DTGW and Fall/Winter Median.

Monitoring and Reporting

San Luis Canal Monitoring

Mean daily salinity and turbidity will be measured with the DWR sensors that report real-time data to CDEC (**Table 1**). Westlands will download daily average data for SLC Checks 13 and 21 to measure changes in the canal between these checks that may be attributable to the addition of the non-project water.

Westlands will use a mass balance model to estimate the contribution of salinity to the SLC from the actively pumping wells and Lateral 7 and compare this with the real-time data.

If the addition of the non-project water is increasing the salinity of water in the SLC more than 100 uS/cm between Check 13 and Check 21 (**Table 4**), Reclamation will work with Westlands and the well operators to turn off high salinity wells.

The addition of non-project water must not raise the salinity in the SLC at Check 21 above 700 uS/cm, equivalent to 450 mg/L Total Dissolved Solids (**Table 4**).

The addition of non-project water must not raise the sodium in the SLC at Check 21

above 80 mg/L (**Table 4**). If the sodium concentration does exceed 80 mg/L, Westlands will shut off wells with the highest concentration of sodium until the concentration at Check 21 is less than 80 mg/L, based on Westlands' blending model.

If the salinity of water passing Check 13 is greater than 700 uS/cm, Reclamation and Westlands will coordinate with DWR to modify or restrict non-project pumping.

If the addition of the non-project water from Lateral 7 is increasing the turbidity of water in the SLC more than 10 NTU (**Table 4**), Reclamation will work with Westlands to reduce discharge from the lateral. Changes in turbidity are measured by collecting samples upstream of and downstream of Lateral 7 (**Table 3**).

Westlands will run model simulations, as needed, to quantify anticipated improvements in conductivity with the termination of pumping from specific wells. The participating wells with the highest salinity will be targeted first, continuing to the wells with the lowest concentrations until canal water quality stabilizes or improves. As salinity at Check 21 improves, wells will be brought on-line to commence pumping.

DWR collects monthly grab samples at Checks 13 (KA007089) and 21 (KA017226) to measure trace metals and other minerals in the canal water. The data will be posted here:

San Luis Canal Check 13:

http://wdl.water.ca.gov/waterdatalibrary/waterquality/station_county/select_station.cfm? URLStation=KA007089&source=map

San Luis Canal Check 21:

http://wdl.water.ca.gov/waterdatalibrary/waterquality/station_county/select_station.cfm? URLStation=KA017226&source=map

DWR and Westlands will review these results to identify water quality changes in the SLC and will determine if they are caused by the addition of the non-project water.

Data Compilation and Review

All flow and water quality data collected by Westlands will be presented each month to Reclamation and DWR via e-mail. Reclamation will review the data to identify changes in the quality of water in the SLC and in individual wells, and potential changes in the local aquifer that could lead to overdraft or subsidence. Reclamation, in consultation with DWR, will direct Westlands on the continuation of pumping of groundwater into the SLC.

Access

Participating well owners must allow Reclamation and DWR staff permission to access the wells, if requested.

DWR Monitoring of Wells

DWR may collect samples for water quality testing for any constituents of concern from any Westlands source well or at any point of water entry into the Aqueduct for testing. DWR will use Bryte Chemical Laboratory or TestAmerica Labs for all DWR well sample analyses and the data will be available to Westlands for review. If any well tested by DWR is found to exceed the identified MCL's, Reclamation will direct Westlands to stop pumping immediately. The discharge must not resume unless it is demonstrated that adjustments have been made to the well or cluster of wells that allows it to discharge water that meets the required objectives. Westlands will coordinate with well operators to provide access for DWR personnel to conduct any of the following activities on private property within Westlands' service area during the term of this Proposal:

- Verification of metering calibration standards and requirements for flow meters located at the point of entry into the Aqueduct and at the point of delivery out of the Aqueduct,
- Collection of water samples from source wells and at the point of pump-in to the Aqueduct for testing of water quality,
- Any other activities deemed necessary by DWR to comply with the terms of this Proposal.

Revision

Reclamation reserves the right to modify this monitoring program at any time.

Revised: May 4, 2022

Table 1. Real-Time Monitoring Stations

| Location | Operating Agency | Parameters | Frequency | Remarks |
|---|------------------|----------------------------|-----------|----------------|
| San Luis Canal Check 13 O'Neill Forebay | Electrical | | Real-time | CDEC Site: C13 |
| San Luis Canal Check 21 Kettleman City | - DWR | conductivity, turbidity | Kear-ume | CDEC Site: C21 |

Key: CDEC: California Data Exchange Center

DWR: California Department of Water Resources

Table 2. Routine San Luis Canal Water Quality Monitoring Stations

| Location | Agency | Parameters | Frequency | Remarks | |
|----------------------------|---------|-------------------------|-----------|-------------|--|
| San Luis Canal | rigency | | | | |
| Check 13 O'Neill Forebay | DWR | Minerals, trace metals, | M41-1 | Grab sample | |
| San Luis Canal Check 21 | | nutrients, pesticides | Monthly | Grab sample | |
| Kettleman City | | 1 | | 1 | |

Source: DWR Water Data Library

Table 3. Routine Monitoring of WWD Lateral 7

| Location | Agency | Parameters | Frequency | Remarks |
|---------------------|-------------|---------------|----------------------|--------------------|
| San Luis Canal | | | Weekly | |
| Milepost 113.82 | Westlands | EC, turbidity | Weekly x 4, | Field measurements |
| Lincoln Ave | westiands | short list | Monthly ³ | grab sample |
| (upstream site) | | | | |
| Westlands Lateral 7 | | EC, turbidity | Weekly | Field measurements |
| at Adams Avenue | Westlands | short list | Weekly x 4, | grab sample |
| at Adams Avenue | | | Monthly ³ | |
| San Luis Canal | | | Weekly | |
| Milepost 117.47 | Westlands | EC, turbidity | Weekly x 4, | Field measurements |
| Manning Ave | vv Cstranus | short list | Monthly ³ | grab sample |
| (downstream site) | | | | |

³ This water will also be tested for the short list of constituents weekly for the four weeks and monthly for the duration while water is being pumped into the canal.

Table 4. Maximum allowable changes in the San Luis Canal caused by the addition of non-project groundwater

| Constituent | Monitoring Location | Maximum concentration in the San Luis Canal |
|--|---|---|
| Electrical conductivity | Between San Luis Canal Checks 13 and 21 | Less than 100 uS/cm increase between the checks |
| Turbidity | Between the Lateral 7 upstream site and downstream site | Less than 10 NTU |
| Electrical conductivity | | Not to exceed 700 uS/cm |
| Total dissolved solids | | Not to exceed 450 mg/L |
| Concentration of selenium | In the San Luis Canal at Check 21 | Not to exceed 2 ug/L |
| Concentration of sodium | | Not to exceed 80 mg/L |
| Concentration of any Title 22 constituent | | Less than half of a Title 22 MCL |

If the maximum concentrations are exceeded in the canal, Reclamation will direct the District to reduce or terminate pumping of non-project water into the San Luis Canal. The District may provide a forecast from its water balance model to identify which wells to reduce or terminate, and whether to reduce or terminate pumping form Lateral 7.

San Luis Canal Non-Project Water Pump-in Program Water Quality Monitoring Plan

Table 5. Water Quality Standards, Short List

| Constituent | Units | Maximum Jnits Contaminant Le | | Detection Limit Reporting | for | CAS Registry Number | Recommended Analytical Method |
|-------------------------------|-------|---------------------------------|------|------------------------------|-----|------------------------|-------------------------------------|
| Arsenic | mg/L | 0.010 | (1) | 0.002 | (2) | 7440-38-2 | EPA 200.8 |
| Boron | mg/L | 2.0 | (13) | | | 7440-42-8 | EPA 200.7 |
| Bromide | mg/L | | (14) | | | | |
| Chloride | mg/L | 250 | (7) | | | 16887-00-6 | EPA 300.1 |
| Chromium, total | mg/L | 0.05 | (1) | 0.01 | (2) | 7440-47-3 | EPA 200.7 |
| Hexavalent chromium | mg/L | 0.010 | (1) | 0.001 | (2) | 18540-29-9 | EPA 200.8 |
| Manganese | mg/L | 0.05 | (7) | | | 7439-96-5 | EPA 200.7 |
| Nitrate (as NO ₃) | mg/L | 45. | (1) | 2. | (2) | 7727-37-9 | EPA 300.1 |
| Selenium | mg/L | 0.002 | (10) | 0.001 | | 7782-49-2 | EPA 200.8 |
| Sodium | mg/L | 200 | (12) | | | 7440-23-5 | EPA 200.7 |
| Specific Conductance | μS/cm | 1,600 | (7) | | | | SM 2510B |
| Sulfate | mg/L | 500 | (7) | | | 14808-79-8 | EPA 300.1 |
| Total Dissolved Solids | mg/L | 1,000 | (7) | | | | SM 2540C |
| Total Organic Carbon | mg/L | | (14) | | | | EPA 415.3 |
| Gross alpha* | pCi/L | 15 | (3) | 3 | (3) | | SM 7110C |
| 1,2,3-Trichloropropane | mg/L | 0.000005 | (4) | 0.000005 | (5) | 96-18-4 | SRL 524M |

One-Time Screening

| Perfluorooctanic acid (PFOA)** | ng/L | N/A | 0.82 (15) | EPA 537.1 |
|---------------------------------------|------|-----|-----------|-----------|
| Perfluorooctanesulfonic acid (PFOS)** | ng/L | N/A | 2.7 (15) | EPA 537.1 |

Short list to be measured before pumping occurs, then weekly for four consecutive weeks, and monthly for the duration of pumping into the San Luis Canal. *Monthly testing only

Revised: 26 August 2021

^{**}One-time screening conducted prior to pumping individual wells and from Lateral 7 at the Adams Avenue pump station. Although there are no MCLs developed yet, there are notification levels and response levels. The notification levels are 5.1 PPT (PFOA) and 6.5 PPT (PFOS). The response levels are 10 PPT (PFOA) and 40 PPT (PFOS) based on a running four quarter average. The lowest concentration minimum reporting levels (LCMRL) are 0.82 ng/L (PFOA) and 2.7 ng/L (PFOS).

San Luis Canal Non-Project Water Pump-in Program Water Quality Monitoring Plan

Table 6. Title 22 Water Quality Standards

| Constituent | Units | Maximum Contaminant Level | | Detection Limit for Reporting | | CAS Registry Number | Recommended Analytical Method |
|-------------------------------------|-------|------------------------------|-----|----------------------------------|-----|------------------------|----------------------------------|
| Primary | | | | | | | |
| Aluminum | mg/L | 1. | (1) | 0.05 | (2) | 7429-90-5 | EPA 200.7 |
| Antimony | mg/L | 0.006 | (1) | 0.006 | (2) | 7440-36-0 | EPA 200.8 |
| Arsenic | mg/L | 0.010 | (1) | 0.002 | (2) | 7440-38-2 | EPA 200.8 |
| Asbestos | MFL | 7 | (1) | 0.2 MFL>10µm | (2) | 1332-21-4 | EPA 100.2 |
| Barium | mg/L | 1. | (1) | 0.1 | (2) | 7440-39-3 | EPA 200.7 |
| Beryllium | mg/L | 0.004 | (1) | 0.001 | (2) | 7440-41-7 | EPA 200.7 |
| Cadmium | mg/L | 0.005 | (1) | 0.001 | (2) | 7440-43-9 | EPA 200.7 |
| Chromium, total | mg/L | 0.05 | (1) | 0.01 | (2) | 7440-47-3 | EPA 200.7 |
| Copper | mg/L | 1.3 | | 0.050 | (8) | 7440-50-8 | EPA 200.7 |
| Cyanide | mg/L | 0.15 | (1) | 0.1 | (2) | 57-12-5 | EPA 335.2 |
| Fluoride | mg/L | 2.0 | (1) | 0.1 | (2) | 16984-48-8 | EPA 300.1 |
| Hexavalent Chromium | mg/L | 0.010 | (1) | 0.001 | (2) | 18540-29-9 | EPA 218.7 |
| Lead | mg/L | 0.015 | (9) | 0.005 | (8) | 7439-92-1 | EPA 200.8 |
| Mercury | mg/L | 0.002 | (1) | 0.001 | (2) | 7439-97-6 | EPA 245.1 |
| Nickel | mg/L | 0.1 | (1) | 0.01 | (2) | 7440-02-0 | EPA 200.7 |
| Nitrate (as NO ₃) | mg/L | 45. | (1) | 2. | (2) | 7727-37-9 | EPA 300.1 |
| Nitrate + Nitrite (sum as nitrogen) | mg/L | 10. | (1) | | | 14797-55-8 | EPA 353.2 |

| Nitrite (as nitrogen) Perchlorate Selenium Thallium | mg/L mg/L mg/L mg/L | 1. 0.006 0.002 0.002 | (1) (1) (10) (1) | 0.4 0.004 0.001 0.001 | (2) (2) | 14797-65-0 14797-73-0 7782-49-2 7440-28-0 | EPA 300.1 EPA 314/331/332 EPA 200.8 EPA 200.8 |
|---|------------------------------|-------------------------------|---------------------------|--------------------------------|------------|--|--|
| Thiobencarb | mg/L | 0.07 | | | | 28249-77-6 | EPA 527 |
| Secondary | | | | | | | |
| Aluminum | mg/L | 0.2 | (6) | | | 7429-90-5 | EPA 200.7 |
| Chloride | mg/L | 500 | (7) | | | 16887-00-6 | EPA 300.1 |
| Color | units | 15 | (6) | | | | EPA 110 |
| Copper | mg/L | 1.0 | (6) | 0.050 | (8) | 7440-50-8 | EPA 200.7 |
| Iron | mg/L | 0.3 | (6) | | | 7439-89-6 | EPA 200.7 |
| Manganese | mg/L | 0.05 | (6) | | | 7439-96-5 | EPA 200.7 |
| Methyl-tert-butyl ether (MTBE) | mg/L | 0.005 | (6) | | | 1634-04-4 | EPA 502.2/524.2 |
| Odor -threshold | units | 3 | (6) | | | | SM 2150B |
| Silver | mg/L | 0.1 | (6) | | | 7440-22-4 | EPA 200.7 |
| Specific Conductance | μS/cm | 1,600 | (7) | | | | SM 2510 B |
| Sulfate | mg/L | 500 | (7) | | | 14808-79-8 | EPA 300.1 |
| Thiobencarb | mg/L | 0.001 | (6) | | | 28249-77-6 | EPA 527 |
| Total Dissolved Solids | mg/L | 1,000 | (7) | | | | SM 2540 C |
| Turbidity | units | 5 | (6) | | | | EPA 190.1/SM2130B |
| Zinc | mg/L | 5.0 | (6) | | | 7440-66-6 | EPA 200.7 |
| Other Required Analyses | | | | | | | |
| Boron | mg/L | 2.0 | (13) | | | 7440-42-8 | EPA 200.7 |
| Molybdenum | mg/L | 0.01 | (11) | | | 7439-98-7 | EPA 200.7 |
| Sodium | mg/L | 200 | (12) | | | 7440-23-5 | EPA 200.7 |

| Radioactivity | | | | | | | |
|----------------------------------|-------|--------|-----|--------|-----|-----------|-------------------|
| Gross Alpha | pCi/L | 15 | (3) | 3 | (3) | | SM 7110C |
| | | | | | | | |
| Organic Chemicals | | | | | | | |
| (a) Volatile Organic Chemicals (| • | | | | | 71 40 0 | ED + 500 0/50 + 0 |
| Benzene | mg/L | 0.001 | (4) | 0.0005 | (5) | 71-43-2 | EPA 502.2/524.2 |
| Carbon Tetrachloride | mg/L | 0.0005 | (4) | 0.0005 | (5) | 56-23-5 | EPA 502.2/524.2 |
| 1,2-Dichlorobenzene | mg/L | 0.6 | (4) | 0.0005 | (5) | 95-50-1 | EPA 502.2/524.2 |
| 1,4-Dichlorobenzene | mg/L | 0.005 | (4) | 0.0005 | (5) | 106-46-7 | EPA 502.2/524.2 |
| 1,1-Dichloroethane | mg/L | 0.005 | (4) | 0.0005 | (5) | 75-34-3 | EPA 502.2/524.2 |
| 1,2-Dichloroethane | mg/L | 0.0005 | (4) | 0.0005 | (5) | 107-06-2 | EPA 502.2/524.2 |
| 1,1-Dichloroethylene | mg/L | 0.006 | (4) | 0.0005 | (5) | 75-35-4 | EPA 502.2/524.2 |
| cis-1,2-Dichloroethylene | mg/L | 0.006 | (4) | 0.0005 | (5) | 156-59-2 | EPA 502.2/524.2 |
| trans-1,2-Dichloroethylene | mg/L | 0.01 | (4) | 0.0005 | (5) | 156-60-5 | EPA 502.2/524.2 |
| Dichloromethane | mg/L | 0.005 | (4) | 0.0005 | (5) | 75-09-2 | EPA 502.2/524.2 |
| 1,2-Dichloropropane | mg/L | 0.005 | (4) | 0.0005 | (5) | 78-87-5 | EPA 502.2/524.2 |
| 1,3-Dichloropropene | mg/L | 0.0005 | (4) | 0.0005 | (5) | 542-75-6 | EPA 502.2/524.2 |
| Ethylbenzene | mg/L | 0.3 | (4) | 0.0005 | (5) | 100-41-4 | EPA 502.2/524.2 |
| Methyl-tert-butyl ether | mg/L | 0.013 | (4) | 0.003 | (5) | 1634-04-4 | EPA 502.2/524.2 |
| Monochlorobenzene | mg/L | 0.07 | (4) | 0.0005 | (5) | 108-90-7 | EPA 502.2/524.2 |
| Styrene | mg/L | 0.1 | (4) | 0.0005 | (5) | 100-42-5 | EPA 502.2/524.2 |
| 1,1,2,2-Tetrachloroethane | mg/L | 0.001 | (4) | 0.0005 | (5) | 79-34-5 | EPA 502.2/524.2 |
| Tetrachloroethylene (PCE) | mg/L | 0.005 | (4) | 0.0005 | (5) | 127-18-4 | EPA 502.2/524.2 |
| Toluene | mg/L | 0.15 | (4) | 0.0005 | (5) | 108-88-3 | EPA 502.2/524.2 |
| 1,2,4-Trichlorobenzene | mg/L | 0.005 | (4) | 0.0005 | (5) | 120-82-1 | EPA 502.2/524.2 |
| 1,1,1-Trichloroethane | mg/L | 0.200 | (4) | 0.0005 | (5) | 71-55-6 | EPA 502.2/524.2 |
| 1,1,2-Trichloroethane | mg/L | 0.005 | (4) | 0.0005 | (5) | 79-00-5 | EPA 502.2/524.2 |
| Trichloroethylene (TCE) | mg/L | 0.005 | (4) | 0.0005 | (5) | 79-01-6 | EPA 502.2/524.2 |
| Trichlorofluoromethane | mg/L | 0.15 | (4) | 0.005 | (5) | 75-69-4 | EPA 502.2/524.2 |
| | - | | | | | | |

| mg/L | 1.2 | (4) | 0.01 | (5) | 76-13-1 | SM 6200B |
|-----------|---|--|---|---|---|--|
| mg/L | 0.0005 | (4) | 0.0005 | (5) | 75-01-4 | EPA 502.2/524.2 |
| mg/L | 1.750* | (4) | 0.0005 | (5) | 1330-20-7 | EPA 502.2/524.2 |
| Chemicals | (SOCs) | | | | | |
| mg/L | 0.002 | (4) | 0.001 | (5) | 15972-60-8 | EPA 505/507/508 |
| mg/L | 0.001 | (4) | 0.0005 | (5) | 1912-24-9 | EPA 505/507/508 |
| mg/L | 0.018 | (4) | 0.002 | (5) | 25057-89-0 | EPA 515.1 |
| mg/L | 0.0002 | (4) | 0.0001 | (5) | 50-32-8 | EPA 525.2 |
| mg/L | 0.018 | (4) | 0.005 | (5) | 1563-66-2 | EPA 531.1 |
| mg/L | 0.0001 | (4) | 0.0001 | (5) | 57-74-9 | EPA 505/508 |
| mg/L | 0.07 | (4) | 0.01 | (5) | 94-75-7 | EPA 515.1 |
| mg/L | 0.2 | (4) | 0.01 | (5) | 75-99-0 | EPA 515.1 |
| mg/L | 0.0002 | (4) | 0.00001 | (5) | 96-12-8 | EPA 502.2/504.1 |
| mg/L | 0.4 | (4) | 0.005 | (5) | 103-23-1 | EPA 506 |
| mg/L | 0.004 | (4) | 0.003 | (5) | 117-81-7 | EPA 506 |
| mg/L | 0.007 | (4) | 0.002 | (5) | 88-85-7 | EPA 5151-4 |
| mg/L | 0.02 | (4) | 0.004 | (5) | 85-00-7 | EPA 549.2 |
| mg/L | 0.1 | (4) | 0.045 | (5) | 145-73-3 | EPA 548.1 |
| mg/L | 0.002 | (4) | 0.0001 | (5) | 72-20-8 | EPA 505/508 |
| mg/L | 0.00005 | (4) | 0.00002 | (5) | 106-93-4 | EPA 502.2/504.1 |
| mg/L | 0.7 | (4) | 0.025 | (5) | 1071-83-6 | EPA 547 |
| mg/L | 0.00001 | (4) | 0.00001 | (5) | 76-44-8 | EPA 508 |
| mg/L | 0.00001 | (4) | 0.00001 | (5) | 1024-57-3 | EPA 508 |
| mg/L | 0.001 | (4) | 0.0005 | (5) | 118-74-1 | EPA 505/508 |
| mg/L | 0.05 | (4) | 0.001 | (5) | 77-47-4 | EPA 505/508 |
| mg/L | 0.0002 | (4) | 0.0002 | (5) | 58-89-9 | EPA 505/508 |
| mg/L | 0.03 | (4) | 0.01 | (5) | 72-43-5 | EPA 505/508 |
| mg/L | 0.02 | (4) | 0.002 | (5) | 2212-67-1 | EPA 525.1 |
| mg/L | 0.05 | (4) | 0.02 | (5) | 23135-22-0 | EPA 531.1 |
| mg/L | 0.001 | (4) | 0.0002 | (5) | 87-86-5 | EPA 515.1-3 |
| | mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L | mg/L mg/L chemicals (SOCs) mg/L mg/L 0.002 mg/L 0.001 mg/L 0.001 mg/L 0.002 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.001 mg/L 0.0001 mg/L 0.007 mg/L 0.002 mg/L 0.004 mg/L 0.004 mg/L 0.007 mg/L 0.001 mg/L 0.00001 mg/L 0.00002 mg/L 0.00002 mg/L 0.00002 mg/L 0.00002 mg/L 0.00002 | mg/L mg/L mg/L 1.750* (4) 1.750* | mg/L 0.0005 (4) 0.0005 mg/L 1.750* (4) 0.0005 chemicals (SOCs) 0.002 (4) 0.001 mg/L 0.001 (4) 0.0005 mg/L 0.018 (4) 0.002 mg/L 0.0002 (4) 0.0001 mg/L 0.018 (4) 0.005 mg/L 0.018 (4) 0.005 mg/L 0.001 (4) 0.0001 mg/L 0.001 (4) 0.001 mg/L 0.002 (4) 0.00001 mg/L 0.002 (4) 0.0001 mg/L 0.004 (4) 0.002 mg/L 0.004 (4) 0.002 mg/L 0.002 (4) 0.004 mg/L 0.002 (4) 0.004 mg/L 0.0005 (4) 0.0001 mg/L 0.00001 (4) 0.00001 mg/L 0.001 (4) </td <td>mg/L 0.0005 (4) 0.0005 (5) mg/L 1.750* (4) 0.0005 (5) chemicals (SOCs) mg/L 0.002 (4) 0.001 (5) mg/L 0.001 (4) 0.0005 (5) mg/L 0.018 (4) 0.0001 (5) mg/L 0.018 (4) 0.005 (5) mg/L 0.018 (4) 0.005 (5) mg/L 0.018 (4) 0.0001 (5) mg/L 0.018 (4) 0.0001 (5) mg/L 0.001 (4) 0.0001 (5) mg/L 0.07 (4) 0.001 (5) mg/L 0.0002 (4) 0.0001 (5) mg/L 0.004 (4) 0.003 (5) mg/L 0.007 (4) 0.004 (5) mg/L 0.0002 (4) 0.004 (5) mg/L 0.00001</td> <td>mg/L 0.0005 (4) 0.0005 (5) 75-01-4 mg/L 1.750* (4) 0.0005 (5) 1330-20-7 Chemicals (SOCs) mg/L 0.002 (4) 0.001 (5) 15972-60-8 mg/L 0.001 (4) 0.0005 (5) 1912-24-9 mg/L 0.018 (4) 0.002 (5) 25057-89-0 mg/L 0.0002 (4) 0.0001 (5) 50-32-8 mg/L 0.018 (4) 0.005 (5) 1563-66-2 mg/L 0.018 (4) 0.005 (5) 1563-66-2 mg/L 0.07 (4) 0.001 (5) 57-74-9 mg/L 0.07 (4) 0.001 (5) 75-97-0 mg/L 0.07 (4) 0.001 (5) 75-99-0 mg/L 0.0002 (4) 0.0001 (5) 75-99-0 mg/L 0.04 (4) 0.0003 (5) 117-81-7</td> | mg/L 0.0005 (4) 0.0005 (5) mg/L 1.750* (4) 0.0005 (5) chemicals (SOCs) mg/L 0.002 (4) 0.001 (5) mg/L 0.001 (4) 0.0005 (5) mg/L 0.018 (4) 0.0001 (5) mg/L 0.018 (4) 0.005 (5) mg/L 0.018 (4) 0.005 (5) mg/L 0.018 (4) 0.0001 (5) mg/L 0.018 (4) 0.0001 (5) mg/L 0.001 (4) 0.0001 (5) mg/L 0.07 (4) 0.001 (5) mg/L 0.0002 (4) 0.0001 (5) mg/L 0.004 (4) 0.003 (5) mg/L 0.007 (4) 0.004 (5) mg/L 0.0002 (4) 0.004 (5) mg/L 0.00001 | mg/L 0.0005 (4) 0.0005 (5) 75-01-4 mg/L 1.750* (4) 0.0005 (5) 1330-20-7 Chemicals (SOCs) mg/L 0.002 (4) 0.001 (5) 15972-60-8 mg/L 0.001 (4) 0.0005 (5) 1912-24-9 mg/L 0.018 (4) 0.002 (5) 25057-89-0 mg/L 0.0002 (4) 0.0001 (5) 50-32-8 mg/L 0.018 (4) 0.005 (5) 1563-66-2 mg/L 0.018 (4) 0.005 (5) 1563-66-2 mg/L 0.07 (4) 0.001 (5) 57-74-9 mg/L 0.07 (4) 0.001 (5) 75-97-0 mg/L 0.07 (4) 0.001 (5) 75-99-0 mg/L 0.0002 (4) 0.0001 (5) 75-99-0 mg/L 0.04 (4) 0.0003 (5) 117-81-7 |

| mg/L | 0.5 | (4) | 0.001 | (5) | 1918-02-1 | EPA 515.1-3 |
|------|--|--|---|--|--|---|
| mg/L | 0.0005 | (4) | 0.0005 | (5) | 1336-36-3 | EPA 130.1 |
| mg/L | 0.004 | (4) | 0.001 | (5) | 122-34-9 | EPA 505 |
| mg/L | 0.07 | (4) | 0.001 | (5) | 28249-77-6 | EPA 527 |
| mg/L | 0.003 | (4) | 0.001 | (5) | 8001-35-2 | EPA 505 |
| mg/L | 0.000005 | (4) | 0.000005 | (5) | 96-18-4 | SRL 524M |
| mg/L | 3 x 10 ⁻⁸ | (4) | 5 x 10 ⁻⁹ | (5) | 1746-01-6 | EPA 130.3 |
| mg/L | 0.05 | (4) | 0.001 | (5) | 93-72-1 | EPA 515.1 |
| | | | | | | |
| ug/L | 0.015 | (11) | | | 2921-88-2 | EPA 8141A |
| ug/L | 0.10 | (11) | | | 333-41-5 | EPA 8141A |
| | mg/L mg/L mg/L mg/L mg/L mg/L | mg/L 0.0005 mg/L 0.004 mg/L 0.007 mg/L 0.003 mg/L 0.000005 mg/L 3 x 10-8 mg/L 0.05 | mg/L 0.0005 (4) mg/L 0.004 (4) mg/L 0.07 (4) mg/L 0.003 (4) mg/L 0.000005 (4) mg/L 3 x 10-8 (4) mg/L 0.05 (4) | mg/L 0.0005 (4) 0.0005 mg/L 0.004 (4) 0.001 mg/L 0.07 (4) 0.001 mg/L 0.003 (4) 0.001 mg/L 0.000005 (4) 0.000005 mg/L 3 x 10-8 (4) 5 x 10-9 mg/L 0.05 (4) 0.001 | mg/L 0.0005 (4) 0.0005 (5) mg/L 0.004 (4) 0.001 (5) mg/L 0.07 (4) 0.001 (5) mg/L 0.003 (4) 0.001 (5) mg/L 0.00005 (4) 0.00005 (5) mg/L 3 x 10-8 (4) 5 x 10-9 (5) mg/L 0.05 (4) 0.001 (5) | mg/L 0.0005 (4) 0.0005 (5) 1336-36-3 mg/L 0.004 (4) 0.001 (5) 122-34-9 mg/L 0.07 (4) 0.001 (5) 28249-77-6 mg/L 0.003 (4) 0.001 (5) 8001-35-2 mg/L 0.000005 (4) 0.000005 (5) 96-18-4 mg/L 3 x 10-8 (4) 5 x 10-9 (5) 1746-01-6 mg/L 0.05 (4) 0.001 (5) 93-72-1 ug/L 0.015 (11) 2921-88-2 |

Sources:

Recommended Analytical Methods: https://www.nemi.gov/home/

Maximum Contaminant Levels:

Title 22. The Domestic Water Quality and Monitoring Regulations specified by the State of California Health and Safety Code (Sections 4010-4037), and Administrative Code (Sections 64401 et seq.), as amended.

- (1) Title 22. Table 64431-A Maximum Contaminant Levels, Inorganic Chemicals
- (2) Title 22. Table 64432-A Detection Limits for Reporting (DLRs) for Regulated Inorganic Chemicals
- (3) Title 22. Table 64442 Radionuclide Maximum Contaminant Levels (MCLs) and Detection Levels for Purposes of Reporting (DLRs)
- (4) Title 22. Table 64444-A Maximum Contaminate Levels, Organic Chemicals
- (5) Title 22. Table 64445.1-A Detection Limits for Purposes of Reporting (DLRs) for Regulated Organic Chemicals
- (6) Title 22. Table 64449-A Secondary Maximum Contaminant Levels "Consumer Acceptance Contaminant Levels"
- (7) Title 22. Table 64449-B Secondary Maximum Contaminant Levels "Consumer Acceptance Contaminant Level Ranges"
- (8) Title 22. Table 64678-A DLRs for Lead and Copper

(9) Title 22. Section 64678 (d) Lead Action level

http://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/documents/lawbook/dwregulations-2015-07-16.pdf

California Regional Water Quality Control Board, Central Valley Region, Fourth Edition of the Water Quality Control Plan for the Sacramento River and San Joaquin River Basins. Revised June 2015

(10) Basin Plan, Table III-1 (ug/L) (selenium in Grasslands water supply channels)

(11) Basin Plan, Table III-2A. 4-day average (chronic) concentrations of chlorpyrifos & diazinon in San Joaquin River from Mendota to Vernalis http://www.waterboards.ca.gov/centralvalley/water_issues/basin_plans/sacsir.pdf

Ayers, R. S. and D. W. Westcot, *Water Quality for Agriculture*, Food and Agriculture Organization of the United Nations - Irrigation and Drainage Paper No. 29, Rev. 1, Rome (1985).

(12) Ayers, Table 1 (mg/L) (sodium)

(13) Ayers, Table 1 (mg/L) (boron)

http://www.fao.org/3/T0234E/T0234E00.htm

(14) Requested by State Water contractors, no MCL specified.

California Regional Water Quality Control Board. PFAS Per-and Polyfluoroalkyl Substances.

(15) Testing Methods in California Drinking Water

https://www.waterboards.ca.gov/pfas/

Revised: 26 August 2021

Table 7. Approved Laboratory List for the Mid-Pacific Region Quality Assurance and Data Management Branch (MP-156) Environmental Monitoring and Hazardous Materials Branch (MP-157)

| | Address | 208 Mason Street, Ukiah, CA 95482 |
|------------------|---------|--|
| Alpha Analytical | Contact | Robbie Phillips |
| Laboratories, | P/F | 916-686-5190 |
| Inc. | Email | robbie@alpha-labs.com |
| | Methods | Inorganics in Water, Organics in Water |

| | Address | 908 North Temperance Avenue, Clovis, CA 93611 |
|-----------------|---------|--|
| | Contact | Chue Moua, Project Manager |
| APPL Laboratory | P/F | (559) 275-2175 /direct: (559) 862-2155 |
| | Email | cmoua@applinc.com |
| | Methods | Inorganics in Water/Soil, Organics in Water/Soil |

| | Address | 2218 Railroad Avenue Redding, CA 96001 |
|-------------------|-------------------------------|---|
| | Contact | Josh Kirkpatrick, Nathan Hawley, Melissa Hawley |
| | P/F | (530) 243-7234 / (530) 243-7494 |
| Desire Laboration | , Email | jkirkpatrick@basiclab.com (QAO and PM), |
| Basic Laboratory | | nhawley@basiclab.com, mhawley@basiclab.com |
| | | (invoices), poilar@basiclab.com (sample custody), khawley@basiclab.com (sample custody) |
| | | |
| Methods | Methods | Inorganics in Water/Soil, Organics in Soil, |
| | Hazardous Waste in Water/Soil | |

| Prooks Applied | Address | 18804 North Creek Parkway, Bothell, WA 98011 |
|----------------|---------|--|
| | Contact | Jeremy Maute |
| Brooks Applied | P/F | 206-632-6206 / 206-632-6016 |
| Labs | Email | jeremy@brooksapplied.com |
| | Methods | Selenium Speciation |

| Calscience | Address | 7440 Lincoln Way, Garden Grove, CA 92841 |
|-----------------|---------|--|
| Environmental | Contact | Don Burley |
| Laboratories | P/F | 714-895-5494 (ext. 203)/714-894-7501 |
| | Email | DBurley@calscience.com |
| (under Eurofins | Mothodo | Ouggies in Mateu |
| ownership) | Methods | Organics in Water |

| | Address | 750 Royal Oaks Drive Ste. 100, Monrovia, CA 91016 |
|-----------------------|---------|--|
| Eurofins Eaton | Address | 180 Blue Ravine Rd., Folsom, CA 95630 |
| Analytical, Inc. | Contact | Rosalynn Dang |
| (formerly MWH | P/F | (626) 386-1250, Linda - (626) 386-1163, Rita cell |
| Laboratories) | F/1 | (916) 996-5929, Rick - (626) 386-1157 |
| | Email | RosalynnDang@EurofinsET.com |
| | Methods | Organics in Water |

| | Address | 853 Corporation Street, Santa Paula, CA 93060 |
|---------------|---------|---|
| Fruit Growers | Contact | David Terz, QA Director |
| _ | P/F | (805) 392-2024 / (805) 525-4172 |
| Laboratory | Email | davidt@fglinc.com |
| | Methods | Inorganics in Water (Gross Alpha) |

| | Address | 307 Roemer Way Ste 300, Santa Maria, CA 93454 |
|----------------------------|---------|--|
| Oilfield | Contact | Will update when assigned a PM |
| Environmental & | P/F | 805-922-4772 |
| Compliance | Email | info@oecusa.com |
| | Methods | (Approval Pending) Hazardous Waste in Water/Soil |

| | Address | 2250 Codelia Road, Fairfield, CA 94534 |
|-----------------|---------|--|
| | Contact | Stephen L. Clark |
| Pacific EcoRisk | P/F | (707) 207-7760 / (707) 207-7916 |
| | Email | slclark@pacificecorisk.com |
| | Methods | Toxicity in Water/Sediments |

| | Address | 1904 East Wright Circle, Anaheim, CA 92806 |
|--------|---------|--|
| | Contact | Will update when assigned a PM |
| Physis | P/F | 1-714-602-5320 ext 204 |
| | Email | markbaker@physislabs.com |
| | Methods | (Approval Pending) Inorganics in Soil |

| | Address | Brookings Biospace, 1006 32nd Avenue, Suites 103,105, Brookings, SD 57006-4728 |
|--------------|--------------------------|--|
| South Dakota | Contact | Regina Wixon, Annie Mouw (sample custodian) |
| | P/F | (605) 692-7325 / (605) 692-7326 |
| Agricultural | pratories Email Methods | regina.wixon@sdaglabs.com, |
| Laboratories | | annie.mouw@sdaglabs.com |
| | | Selenium in Water/Soil/Sediments/Tissue |
| | | (Plant/Animal) |

| | Address | 475 East Greg Street # 119 Sparks, NV 89431 |
|---------------|---------|---|
| Western | Contact | Logan Greenwood (PM), Andy Smith (QA Manager) |
| Environmental | P/F | (775) 355-0202 / (775) 355-0817 |
| Testing | Email | logang@wetlaboratory.com, |
| Laboratories | | andy@wetlaboratory.com |
| | Methods | Inorganics in Water |

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