

AMO



MALAGA COUNTY WATER DISTRICT

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BOARD OF DIRECTORS

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James D. Anderson, General Manager

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FRESNO, CALIF.

Central Valley Water Quality Control Board, Region 5
Aide M. Ortiz, Water Resource Control Engineer
1685 E Street
Fresno, Ca 93725

MCWD 2014 ANNUAL PRETREATMENT REPORT

Report Date: 27 February 2015
Reporting Period: 1 January 2014 to 31 December 2014
Order No.: R5-2008-0033
NPDES Permit No.: CA0084239
WWTF: Malaga County Water District
Wastewater Treatment Facility (WWTF)
3749 S. Maple Avenue
Fresno, Ca 93725
Mailing Address: 3580 S. Frank Street
Fresno, Ca 93725
T: 559-485-7353
Attention: James D. Anderson
General Manager and Chief Plant Operator

Certification [40 CFR 122.22(d)]:

I certify under penalty of law that this document and all attachments were prepared under the direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry on the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

James D. Anderson
Legally Responsible Official

MALAGA COUNTY WATER DISTRICT
2014 Pretreatment Program Annual Report

Table of Contents

Submittal and Certification

Introduction and General Information

Pretreatment Program Overview

Pretreatment Program Budget

Pretreatment Program Public Participation and Outreach

Compliance and Monitoring Program

1. Summary Report of WWTF Influent and Effluent
2. Discussion of Upset, Interference, or Pass-Through Incidents
3. Baseline Monitoring Reports and Cumulative Number of Industrial User Responses
4. Updated List of Industrial and Commercial Dischargers
5. Inspections and Sampling Activities

Compliance and Enforcement Activities

Description of Changes in the Pretreatment Program

Activated Sludge and Biosolid Analysis

Tables

1. Baseline Monitoring Reports
2. SIU Inspections in 2014
3. Monitoring of Truck Wash Facilities
4. SJV-Fifth Wheel-Punjabi Dhaba Permit and Account Numbers
5. Definitions
6. Abbreviations
7. Discharge Limits and Pollutants of Concern

Attachments

1. Attachment A List of Industrial and Commercial Dischargers
2. Attachment B Pretreatment Budget FY-2014
3. Attachment C Industrial User Wastewater Discharge Permit
4. Attachment D Letter of Final Warning to Truck Washes
5. Attachment E Enforcement Action against Fifth Wheel Truck Wash
6. Attachment F Lab Analysis of Green Tec Sample
7. Attachment G Statement Concerning Categorical Dischargers
8. Attachment H Local Limits Action Plan
9. Attachment I Activated Sludge Analysis by Dr. Michael Richard
10. Attachment J Analytical Report of Biosolids
11. Attachment K Analytical Report of Untreated Influent
12. Attachment L Analytical Report of Mixed Liquor (Sludge)
13. Attachment M Analytical Report of Secondary Effluent Minerals

Introduction and General Information

Malaga County Water District ("MCWD" or "District") is a California Special District located south of the City of Fresno. The District covers an area of about 2.5 square miles and provides water distribution, wastewater collection, treatment and disposal, and solid waste collection and disposal services to a community of 239 residential units, 81 trailer park tenants, 6 major industrial customers and over 200 commercial businesses. The District also operates a Recreation and Senior Citizen's Center. MCWD meets all definitions of a disadvantaged community with a median household income of \$23,000 among all residents. The District has an annual operating budget of \$2.3 million with a staff of 15 full time employees.

The District is governed by a five-member elected Board of Directors and is organized and exists pursuant to §30000, et seq., of the California Water Code. The District's General Manager, James D. Anderson, is responsible for the day-to-day operations of the District including the District's Pretreatment Program. Mr. Anderson also serves as the Wastewater Treatment Facility's Chief Plant Operator and the District's Legally Responsible Official.

Total employment within the District is estimated to be 1,200 jobs from data collected during pretreatment program inspections of industrial and commercial customers. Six major industries include a plate glass manufacturer, a biomass energy producer, a gas turbine electrical energy peaking plant, a corrugated box and printing manufacturer, a vegetable oil re-packer, and a petroleum distributor of gasoline, diesel, and jet fuel. Most of the commercial businesses support freight services with truck washes and truck stops, truck sales and repair businesses, and a large number of warehouse facilities for storage and distribution. MCWD is a major hub for commercial freight and trucking for state and inter-state commerce. The services provided in MCWD have a large multiplier effect on jobs within and without the State of California.

MCWD is a vital center of activity to the economy of the State of California.

Pretreatment Program Overview

The District's Pretreatment Program is authorized by the District's Ordinance Code which is referred to herein as the "Malaga Code." (See, MC Sec. 3.01.030 and 3.05.020). The District's Ordinance Code was updated and codified on February 25, 2014. The Malaga Code is updated, revised, and/or modified by the Board of Directors in accordance with applicable law. The Malaga Code is maintained and available online and is accessible by a link on the District's web page located at: www.malagacwd.org. The District updated its Pretreatment Program on December 9, 2014. A copy of the District's updated Pretreatment Program is also available on the District's web page.

The District's primary control mechanism is Individual Wastewater Discharge Permits ("IWDP"). The District issues IWDPs (also referred to as "Non-Residential Discharge Permits) in five classes. A list of each Industrial User ("IU") issued an IWDP is contained in Attachment A.

As part of the Pretreatment Program update, the District made a number of staffing changes in order to more effectively carry out the requirements and goals of the District's Pretreatment Program. While in the process of updating the Pretreatment Program, the District determined that an Environmental Compliance Inspector ("ECI") would be more effective at working with IUs to ensure compliance than the utilization of a Code Enforcement Inspector. This change was made in June of 2014 and the ECI position has been an integral part of the District's Pretreatment Program providing, among other things, IU inspections, compliance review, education, outreach, and enforcement.

The District is currently collecting the necessary data to prepare a comprehensive Local Limits Study to enhance its Pretreatment Program. It is anticipated that the Local Limits Study will precipitate a modification to the District's local limits. The Study and the proposed modification should be available for public review and comment pursuant to the District's Pretreatment Program and 40 C.F.R. 403 in April 2014.

MCWD has an operational, progressive, pro-active, and responsive Pretreatment Program. Much of 2014 was a re-building process in the pretreatment program. The District looks forward to 2015 to improve the program and enhance cooperation with industry to generate a spirit of compliance and maintain it.

Pretreatment Program Budget

The District, as part of its annual budgetary process, prepares a Pretreatment Program Budget. The District's current Pretreatment Program Budget for fiscal year 2014-2015 is contained in Attachment B. The primary source of revenue for the Pretreatment Program is from fees paid by IUs for inspections and other services provided by the District and a portion of the charges for sewer service provided by the District to the IUs. The District last updated its fee schedule on October 7, 2014. The fee schedule is available on the District's website. The District is in the process of preparing a rate study to ensure that the Pretreatment Program and Wastewater Treatment Facility are adequately funded to ensure that there is sufficient revenue available to fund the Pretreatment Program and the Wastewater Treatment Facility operations.

A copy of the pretreatment program budget is contained in Attachment B. Of the \$246,450 total FY 2014 pretreatment budget, \$122,286 was spent by mid-year, leaving a balance of \$124,164 for the remaining six months. The major costs for pretreatment in 2014:

1. Two additional portable samplers
2. Repair parts for two existing portable samplers
3. ECI field testing safety and sampling equipment
4. ECI training, CWEA membership and certification
5. Contract and legal services

Pretreatment Program Public Participation and Outreach

The District's Pretreatment Program Public Participation and Outreach Program consists of interaction between the District, through its ECI, and IUs during compliance inspections. The District also provides information and literature in printed form and on its web page which may be utilized by IUs.

The District has developed a FOG Control Best Management Practices brochure which it distributes to food service establishments and other IUs potentially subject to the District's FOG Control Program.

The District provides community outreach at community events which occur, from time to time, at the District's recreational facilities. For example, in September 2014 at the District's Fiesta Days celebration, the District had a vendor booth where it provided information on the District's Pretreatment Program and FOG Program in addition to providing information on proper use of the District's sewer system, water conservation information and free water conservation devices to low-income residents.

The District provided outreach to and conducted public workshops for IUs regarding potential changes to the District's Pretreatment Program and permits in addition to the public hearings which were held in accordance with the District's Pretreatment Program procedures. The District publishes a newsletter which provides information to the community on all aspects of the District's operations including the Pretreatment Program.

Compliance and Monitoring Program

1. Summary Report of Influent and Effluent

Miscommunication resulted in the District failing to collect the proper samples for this requirement. 24 hour flow paced composite samples were collected and tested for the priority pollutants from the influent (Attachment K) and mixed liquor (sludge) (Attachment L) at the WWTF, but effluent samples were not collected and tested. The confusion was over repeating secondary effluent minerals testing which was done in April 2014 (Attachment M). As a result, a summary of the analytical results as pollutants are treated in the process chain at the WWTF cannot be concluded.

To correct this mistake, the District is re-sampling and retesting 24 hour flow paced composite samples from the influent and the effluent, and a 24 hour time based composite sample of mixed liquor (sludge) to meet the sampling requirement. The District has coordinated with the contract laboratory to make sure samples are collected and tested properly.

Re-sampling from all three locations will take place on Tuesday, 3 March 2015, and will be tested for the priority pollutants listed in the USEPA Section 307 (a) of the CWA, and also those priority pollutants contained in the District's pretreatment program. When the results of these tests are obtained, the District will forward them to the District Engineer to prepare a summary report. That report will be forwarded separately to the regional water quality control board when it becomes available.

2. A Discussion of Upset, Interference, or Pass-Through Incidents

The WWTF experienced an incident of foaming upset on 24 September 2014. When WWTF staff reported for work, they observed the influent screw pumps were pushing foam up to the bar screen. The foam was obviously suds and foam from a detergent substance that entered the headworks. The Environmental Compliance Inspector (ECI) and a WWTF staff member traced the source of the foam to SJZ Truck Wash, dba Fifth Wheel Truck Stop, located at 3767 South Golden State Avenue, Fresno, Ca 93725. A sample was taken from the discharge at Fifth Wheel for laboratory analysis. Fifth Wheel personnel were informed of the occurrence and advised to immediately change the dilution factor of the detergent they were using so that it would not produce foam in the collection system. The owner of the facility was contacted and advised that enforcement action was pending upon receipt of the lab analysis of the sample.

There had been prior minor incidences of foaming upset at the WWTF, and it was decided to issue a letter of "Final Warning to All Truck Washes" on 10 October 2014 (Attachment D) that foaming incidents would not be tolerated and that the District was now fully operational to detect and enforce industrial user permit discharge violations, particularly to truck washes who cause foaming upset. The letter was hand delivered by the General Manager (GM) who met with truck wash owners to discuss the seriousness of foaming upset and as an opportunity to

instill the gravity of the District's reformed pretreatment program.

A foaming incident occurred in November 10, 2014 led to an investigation of the Island Pools (Green Tec) facility, 3396 E. Malaga Avenue, Fresno, CA 93725, Permit #1078, Account: #040-1. The Environmental Compliance Officer (ECI) investigated Island Pools (Green Tec) in search of possible leads. Island Pools specializes in washing empty totes used to store dairy related products and chemicals. A sample was taken from the facility's pretreatment area and lab analysis confirmed that the sample was high in electrical conductivity. However, the lab results also indicated that there was no detection for Methylene Blue Active Substance (MBAS) that could have caused foaming (Attachment F).

There was insufficient evidence to charge Island Pools for the foaming upset, and the cause of the foaming was unable to be determined. The ECI used the opportunity of the site inspection at Green Tec to educate its personnel about the negative impacts of foam and high electrical conductivity on WWTF operations. Green Tec personnel were also advised to monitor these parameters and reduce any foaming that may occur with anti-foam agents.

In the matter of the Fifth Wheel incident, the following actions were taken:

1. An administrative citation was issued on 10 October 2014;
2. A discharge violation letter was issued on 13 November 2014;
3. A compliance order was issued on 13 November 2014;
4. An order to show cause hearing was issued on 15 December 2015 for a hearing on 29 December 2014.

As a result of the enforcement actions taken, the Fifth Wheel owner met with the GM and the ECI for a series of meetings and it was agreed that further enforcement action would not be continued in light of Fifth Wheel's understanding of the pretreatment program and their desire to operate in full compliance with their discharge permit. Fifth Wheel was advised and concurred with the District's control authority of the pretreatment program and demonstrated appropriate actions to operate in compliance. Since that time, Fifth Wheel has operated in compliance.

There were no incidences of Interference in 2014.

There were incidents of pass-through at the WWTF in 2014. During the months of June to December, the District reported violations of electro-conductivity (EC) in its monthly NPDES self-monitoring reports. The District passed a number of resolutions during the spring of 2014 for all water users to reduce the amount of water use due to the severe drought conditions being experienced throughout the State of California, and the central valley in particular, and in compliance with state mandates to reduce ground water pumping by 20%. As a result, industrial water users voluntarily reduced water use.

Evidence of the decrease in water use is reflected in the decrease of flow from the WWTF. In

2013 the average annual effluent flow was 0.72 MGD. In 2014 the average was 0.58 MGD. The decrease in water usage seems to be the most evident condition that has resulted in pass-through of EC. On average EC violations have been by less than 5% exceedance. The District undertook a series of samples from truck washes in December 2014 to see if there was evidence of excessive EC discharge, but those samples do not substantiate EC pass-through due to truck wash discharge.

Local Limits testing is now underway, and those results should indicate the sources of excess EC. It is suspected that excess EC is from cooling tower water from large dischargers. Two industrial dischargers operate cooling towers and by volume contribute substantially to wastewater flow. The local limit for EC is presently 950 u-ohm/cm, and cooling tower operators typically discharge wastewater close to the limit. The District believes that water conservation is critical and hesitates to lower the local limit which would require more ground water pumping.

The District is evaluating the feasibility of removing dissolved solids that cause EC from WWTF effluent. The GM and the District Engineer are attending the annual water reuse conference in Los Angeles in March 2015 to become familiar with the latest technology for dissolved solids removal, and to attend a special seminar discussing water recycling for cooling towers. A water-sewer rate study is underway that considers funding a project to install and operate reverse osmosis treatment at the WWTF to remove EC.

The District's plan to meet EC limits in the NPDES permit is to treat WWTF effluent for removal of dissolved solids to an acceptable level for cooling tower water recycling.

3. Baseline Monitoring Report and Cumulative Number of Industrial User Responses

A total of 8 industrial users comply with Baseline Monitoring Reports. A total of 66 Industrial User responses are in record and are filed either electronically or in a hard copy format.

Table 1 below contains the data for Baseline Monitoring Reports:

Table 1. Baseline Monitoring Report Responses

	Permit #	Account #	Permit Holder	Address	Cumulative Number of Industrial User Responses
1	1140	008	Air Products & Chemical Inc.	3333 S. Peach Ave., Fresno, CA 93725	12
2	1038	008	PPG Industries	3333 S. Peach Ave., Fresno, CA 93725	9
3	1005	005	Rio Bravo	3350 S. Willow Ave., Fresno, CA 93725	12
4	1138	010-0	RockTenn	3695 S. Willow Ave., Fresno, CA 93725	7
5	1008	024	Stratas Foods	3390 S. Chestnut Ave., Fresno, CA 93725	11
6	1025	055/055-1	Santa Fe Pacific Pipeline (Kinder Morgan)	4149 S. Maple Ave., Fresno, CA 93725	8
7	1114	018	Georgia -Pacific Corrugated (Sterling Coating)	3630 E. Wawona Ave. #104, Fresno, CA 93725	4
8	1094	076-4A	Stantec Consulting Corp.	3281 S. Maple Ave., Fresno, CA 93725	3
Total:					66

4. Updated List of Industrial and Commercial Dischargers

An updated list of industrial and commercial dischargers is contained in Attachment C. Included are business names, addresses, permit class numbers, and a statement about compliance.

The District Engineer conducted a study and prepared a report that determined there are currently no industrial users identified under the classification of a categorical industry and none are subject to federal categorical standards. Thus, all industrial users within Malaga are considered non-categorical industrial users and are subject only to local discharge limitations. The report from the District Engineer is contained in Attachment G.

The District designated the following IU's as Significant Industrial User's (SIU's) and are Class 1 permit holders:

- a. PPG
- b. Air Products
- c. Rio Bravo
- d. Stratas Foods

- e. Rock Tenn
- f. Kinder Morgan
- g. Fresno Truck Wash
- h. Fifth Wheel Truck Wash
- i. Imperial Truck Wash
- j. Speedy (formerly Moga) Truck Wash

5. Inspection and Sampling Activities

- a. All Significant Industrial Users (SIUs) had multiple inspections and numerous site visits in 2014. Table 2 below lists the frequency of inspections and the frequency of samples taken from SIUs. With the exception of Fifth Wheel Truck Wash, all SIUs were found to be in compliance with their discharge permit.

Table 2: SIU Inspections in 2014

mit #	Account #	Permit Holder	Address	Frequency Inspected	Frequen Sample
08	024	Stratas Foods	3390 S. Chestnut Ave. Fresno, CA 93725	2	0
01	020	RockTenn CP, LLC	3366 E. Muscat Ave. Fresno, CA 93725	2	0
05	005	Rio Bravo	3350 S. Willow Ave. Fresno, CA 93725	2	0
38	008	PPG Industries	3333 S. Peach Ave. Fresno, CA 93725	2	0
40	008	Air Products & Chemical Inc.	3333 S. Peach Ave. Fresno, CA 93725	2	0
05	022-4	Imperial Truck Wash	2635 E. North Ave. Fresno, CA 93725	2	1
50	122-2	Fifth Wheel Truck Wash	3767 S. Golden State Blvd. Fresno, CA 93725	6	3
38	029-1/033	Speedy Truck Wash (formerly Moga Truck Wash)	3846 S. Front Ave. Fresno, CA 93725	2	1
35	046	Lester Lube Inc. dba Fresno Truck Wash	4170 S. Bagley Ave. Fresno, CA 93725	2	1
25	055/055-1	SFPP, L.P. (Kinder Morgan)	4149 S. Maple Ave. Fresno, CA 93725	2	0

- b. The District conducted an inspection of all commercial and industrial facilities in 2014 to determine permit classes. The Environmental Compliance Officer, along with members of the District WWTF staff, combined their efforts to inspect nearly 200 facilities. With that information the District was able to prepare new discharge permits with updated information and determine accurate classifications.

- c. In the month of December, the District conducted a sampling project specifically designed to gather information and insight into the truck washing facilities. A 24-hour composite sample was taken from each truck washing facility and analyzed for electrical conductivity, pH, and total suspended solids. Sampling was done unannounced. The results are reflected in the Table 3 below.

Table 3. Monitoring of Truck Washing Facilities

Location	EC [μ mhos/cm]	pH	TSS [mg/L]	Date
Imperial Truck Wash	778	6.01	110	12/19/2014
Lester Lube Inc. dba Fresno Truck Wash	522	7.16	70	12/17/2014
Speedy Truck Wash (Moga Truck Wash)	623	7.18	20	12/17/2014
Fifth Wheel Truck Wash	1484	4.16	120	12/12/2014
Fifth Wheel Truck Wash	1339	6.45	120	12/23/2014
Fifth Wheel Truck Wash	1346	6.98	160	12/24/2014

Compliance and Enforcement Activities

A number of foaming upset incidences (mentioned above) prompted the General Manager to issue a warning letter to all truck wash facilities. The warning letter was intended to inform industrial users about the negative effects foaming can cause to POTW operations and to make them aware of the consequences involved.

In the matter of the Fifth Wheel incident previously mentioned, the following enforcement actions were taken. Copies of each enforcement action are contained in Attachment E:

1. An administrative citation was issued on 10 October 2014;
2. A discharge violation letter was issued on 13 November 2014;
3. A compliance order was issued on 13 November 2014;
4. An order to show cause hearing was issued on 15 December 2015 for a hearing on 29 December 2014.

As a result of the enforcement actions taken, the Fifth Wheel owner met with the GM and the ECI for a series of meetings and it was agreed that further enforcement action would not be continued in light of Fifth Wheel's understanding of the pretreatment program and their desire to operate in full compliance with their discharge permit. Fifth Wheel was advised and concurred with the District's control authority of the pretreatment program and demonstrated appropriate actions to operate in compliance. Since that time, Fifth Wheel has operated in compliance.

The enforcement action against Fifth Wheel Truck Wash brought to light a problem regarding accountability. Three different facilities at that location were operating under a single water service account and a single wastewater account, as "SJZ Truck Stop". SJZ Truck Stop owns the property and sub-leases property to Fifth Wheel Truck Wash and a restaurant "Punjabi Dhaba Restaurant". The District held a meeting with all three, and instructed the property owner to install separate water meters for each entity's water service, and for Fifth Wheel and Punjabi Dhaba to open their own water and sewer accounts with the District. This action was taken to achieve a better accountability of each industrial user and to accurately monitor their water use and wastewater discharge.

Table 4 below shows each user's account, industrial user discharge permit number and class, and operating address:

Table 4

Permit #	Account #	Permit Holder	Address	Class	Changes
1160	122-2	Fifth Wheel Truck Wash	3767 S. Golden State Blvd. Fresno, CA 93725	1	formerly a joint account with SJZ Truck Stop; new flow meter installed
1160	123	SJZ Truck Stop	3767 S. Golden State Blvd. Fresno, CA 93725	4	(gas station); new flow meter installed
1161	122	Punjabi Dhaba	3767 S. Golden State Blvd. Fresno, CA 93725	4	new flow meter installed

Description of Changes in the Pretreatment Program

There have been substantial changes to the District pretreatment program since last year's report. The draft pretreatment program was submitted to the regional water board in October 2014 and is still undergoing further revision and update. The most significant changes have been properly identifying dischargers, facility inspections to find out who is discharging what, developing slug discharge plans for facilities who discharge slug loads, re-evaluating permit classes and changing from only two classes to five, re-writing the industrial user discharge permit with individual requirements for sampling and reporting where necessary, two public workshops to explain and implement changes to the program, and taking enforcement actions. The District passed a number of ordinances that are reflected in the updated version of the pretreatment program.

The former "code enforcement officer" who was managing the District pretreatment program was replaced by an Environmental Compliance Inspector, who has completed the CWEA ECI training course and will be certified by the CWEA as an ECI. The ECI has taken substantial action to convert the pretreatment program from a program of ignorance into a program of knowledge, cooperation, and compliance.

The District hired a consultant to assist in redevelopment of the pretreatment program. The ECI was a recent college graduate who had no experience in pretreatment or the wastewater industry, but was chosen due his education in OSHA related to a BS degree in environmental science, and for his potential. The consultant was brought on-board to help train the new ECI and assist in drafting elements of the pretreatment program.

A Local Limits Action Plan (Attachment H) was prepared and submitted to the regional water board in October 2014 for review and is ongoing. Starting at the WWTF, the District is sampling and testing for priority pollutants and pollutants of concern to develop maximum allowable headworks loadings (MAHL). From there sampling and testing will be done throughout the collection system to identify sources of pollutants. From that data local limits shall be determined. Once the local limit study is completed, the District pretreatment plan will be finalized and submitted to the regional water board for final review and approval.

The most important change to the District Pretreatment Program is its perception in local industry. The District is now recognized among its industrial dischargers as an agency that knows what pretreatment is and that it monitors the program for compliance. The difficulties endured during 2014 to rebuild the pretreatment program have given the District legitimacy and respect as a Control Authority with local industry that it monitors.

Activated Sludge and Biosolid Analysis

The District sent a sample of WWTF mixed liquor to Dr. Michael Richard in Denver, Colorado who is a nationally recognized expert authority on wastewater sludge. The District wanted an analysis of the sludge for any evidence of toxicity, septicity, filamentous bacterial growth, evidence of proper bacterial growth, SVI, and confirmation that a proposed process change of operating only one aeration basin was a good idea. Dr. Richard's report is contained in Attachment I.

Dr. Richard reported that the Malaga sludge is of high quality and contains the necessary organisms for proper oxidation of pollutants. He concurred with the proposal to operate only one aeration basin based on organic loading and oxygen demand.

The analytical report on biosolids (Attachment J) indicates that there is a source of unknown origin that contributes to excessive amounts of chromium and copper. The challenge for the pretreatment program for 2015 is to find those sources. The Local Limits Study will be the first and biggest step in that process. Once the source(s) of these pollutants is identified, the District will compel the discharger(s) to maintain compliance with Local Limits by monitoring, reporting, and enforcement.

A copy of this report shall be submitted to:

State Water resources Control Board
Division of Water Quality
PO Box 944213
Sacramento, Ca 94244-2130

-and-

Regional Administrator
U.S. Environmental Protection Agency W-5
75 Hawthorne Street
San Francisco, Ca 94105

Table 5: Definitions

"Act" or "Clean Water Act" shall mean the "Federal Water Pollution Control Act.

"Authorized Official of the District" shall mean the person designated by resolution of the Board of Directors as the District's legally responsible official for submitting reports to the State Water Resources Control Board, the United States Environmental Protection Agency, the County of Fresno, and any other agency having jurisdiction to or otherwise requiring the District to submit reports or other records related to the District's water or sewer operations.

"Best Management Practices (BMPs)" as defined by 40 CFR 403.3 as it may be amended, shall mean schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce water pollution. The term also includes treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge of waste disposal, or drainage from raw material storage.

"Categorical Industrial User or CIU" shall mean an Industrial User subject to a Categorical Pretreatment Standard or Categorical Standard.

"Categorical Pretreatment Standard" or "Categorical Standard" shall mean any regulation containing Pollutant Discharge limits promulgated by the EPA in accordance with Sections 307(b) and (c) of the Act that apply to a specific category of Users and appear in 40 CFR Chapter 1, subchapter N, parts 405-471.

"Discharge" shall mean to pump, to place, to deposit, to permit, or to cause to flow or to be transported by a flow, including the introduction of pollutants into the POTW from any non-domestic source.

"District" shall mean the Malaga County Water District located in the County of Fresno, State of California.

"District Engineer" or "Engineer" shall mean the Engineer appointed by and acting for the Board and shall be a Registered Professional of the State of California.

"FOG Control Program" shall mean the District's FOG Control Program pursuant to Malaga Code Section 3.05.180.

"Food Service Establishments" shall mean any food preparation establishment, restaurant, cafeteria, or any other establishment preparing food for consumption or sale. This definition does not include Residential Users preparing food for domestic consumption.

"General Manager" or "Manager" means the person holding the position or acting in the capacity of General Manager of the District who shall administer and enforce the rules and

regulations of the District.

"Industrial User" or "User" means a source of Indirect Discharge.

"Pretreatment Program" shall mean the Pretreatment Program of the District as set forth in Section 3.05.020 of the Malaga Code.

"Sewer Use Ordinance" shall mean Title 3 of the Malaga County Water District Ordinance Code.

"Significant Industrial User" or "SIU" shall mean:

1. An Industrial User subject to Categorical Pretreatment Standards; or
2. An Industrial User that:
 - a. Discharges an average of twenty-five thousand (25,000) gpd or more of processed wastewater to the POTW (excluding sanitary, non-contact cooling and boiler Blowdown Wastewater);
 - b. contributes a process waste stream which makes up five percent (5%) or more of the average dry weather hydraulic or organic capacity of the POTW treatment plant; or
 - c. is designated as such by the District on the basis that it has a reasonable potential for adversely affecting the POTW's operation or for violating any Pretreatment Standard or Requirement.

"Slug Discharge" or "Slug Load" shall mean any Discharge at a flow rate of concentration, which could cause a violation of the prohibited Discharge standards in Title 3 of this Ordinance including, but not limited to, Sections 3.05.030 or 3.05.040 of the Malaga Code. A Slug Discharge is any Discharge of a non-routine, episodic nature, including, but not limited to, an accidental spill or a non-customary batch Discharge, which has a reasonable potential to cause Interference or Pass-Through or any other way of violating the POTW's regulations, Local Limits or Permit conditions.

"Slug Discharge Program" shall mean the District's Slug Discharge Control Program as set forth in the District's Pretreatment Program pursuant to the Sewer Use Ordinance . . .

"Wastewater Treatment Facilities" or "WWTF" or "Malaga Wastewater Treatment Facilities" or "MWTF" shall mean any device, facilities, structures, equipment, or works owned, operated or maintained by the District for the purpose of the collection, transmission, storage, treatment, recycling, reclamation and disposal of industrial and domestic waste, or necessary to recycle or reuse water at the most economical cost over the estimated life of the system, including, but not limited to, intercepting sewers, outfall sewers, sewerage collection systems, pumping, power, and other equipment and their appurtenances, extensions, improvements, remodeling,

additions, and alterations thereof; elements essential to provide a reliable recycled supply such as standby treatment units and clear well facilities; and any works, including site acquisition of the land that will be an integral part of the treatment progress or is used for ultimate disposal of residues resulting from such treatment.

Table 6: Abbreviations

"BMP" means Best Management Practice.

"CFR" means Code of Federal Regulations.

"CIU" means Categorical Industrial User.

"DIU" means Domestic Industrial User.

"ECI" means Environmental Compliance Inspector.

"EPA" means Environmental Protection Agency.

"ERP" means Enforcement Response Plan.

"FCP" means FOG Control Plan.

"FOG" means Fats, Oils and Grease.

"FSE" means Food Service Establishments.

"GRD" means Grease Interceptor, Grease Trap or Grease Removal Device.

"IU" means Industrial User.

"IWDP" means Industrial Wastewater Discharge Permit.

"MCWD" means Malaga County Water District.

"O&M" means Operation and Maintenance.

"POTW" means Publicly Owned Treatment Works.

"RCRA" means Resource Conservation and Recovery Act.

"SIC" means Standard Industrial Classification.

"SIU" means Significant Industrial User.

"SSMP" means Sanitary Sewer Management Plans.

"WWTF" means Wastewater Treatment Facility.

Table 7: Discharge Limits and Pollutants of Concern (POCs)

- a. pH not less than 6.0 standard units and not greater than 9.0 standard units;
- b. Electro-conductivity (EC) not greater than 950 u-ohm/cm;
- c. Biochemical Oxygen Demand (BOD) not greater than 1000 mg/l, surcharge above 300 mg/l;
- d. Total Suspended Solids (TSS) not greater than 1000 mg/l, surcharge above 300 mg/l;
- e. Petroleum based (non-polar) Oil and Grease (O&G) including TPH, TPHd and TPHg in concentration above 100 mg/l;
- f. Animal and vegetable (polar) O&G not greater than 300 mg/l;
- g. Discharge of the following Pollutants of Concern (POC's) above Local Limits:

<u>Pollutant</u>	<u>Local Limit</u>
Iron	TBD
Lead	5.0 mg/l at any time
Silver	5.0 mg/l at any time
Arsenic	5.0 mg/l at any time
Benzene	5.0 mg/l at any time
Phenols	1.0 mg/l at any time
Cadmium	0.10 mg/l at any time
Zinc	5.0 mg/l at any time
Chromium	5.0 mg/l at any time
Copper	5.0 mg/l at any time
Aluminum	5.0 mg/l at any time
Mercury	0.20 mg/l at any time
Barium	10.0 mg/l at any time
Nickel	5.0 mg/l at any time
Selenium	1.0 mg/l at any time
Boron	8.0 mg/l at any time
Chloride	TBD
Cyanide	TBD
Ammonia, as N	TBD
Nitrite + Nitrate, as N	TBD
Phosphorus	TBD
Fluoride	TBD
Diazinon	TBD
Calcium	TBD
Magnesium	TBD

Attachment A: List of Industrial and Commercial Dischargers

Malaga County Water District
List of Industrial Users 2014

Permit #	Account #	Permit Holder	Address	Class	Compliance Status
1001	020	RockTenn CP, LLC	3366 E. Muscat Ave., Fresno, CA 93725	1	Complied with baseline monitoring report requirements
1003	002	IGS Resources	3440 S. Willow Ave., Fresno, CA 93725	5	Consistently achieved compliance
1004	004	Custom Ag Formulators	3430 S. Willow Ave., Fresno, CA 93725	3	Consistently achieved compliance
1005	005	Rio Bravo-Fresno	3350 S. Willow Ave., Fresno, CA 93725	1	Complied with baseline monitoring report requirements
1006	097	(Goodyear) Wingfoot Commercial Tire Systems Inc.	3708 S. Bagley Ave., Fresno, CA 93725	5	Consistently achieved compliance
1007	007-A-1	Eli Lilly C/O Trammel Crow Co.	3131 S. Willow Ave., Fresno, CA 93725	5	Consistently achieved compliance
1008	024	Stratas Foods	3390 S. Chestnut Ave., Fresno, CA 93725	1	Complied with baseline monitoring report requirements
1009	011-2	Monterey Chemical DBA Brandt Consolidated	3654 S. Willow Ave., Fresno, CA 93725	3	Consistently achieved compliance
1010	007-10A	OE Lighting	3359 E. North, Suite #101 Fresno, CA 93725	5	Compliance status unknown
1011	007-15A	Cequant Performance Products	3181 S. Willow Suite #104, Fresno, CA 93725	5	Consistently achieved compliance
1012	022	Inland Star Distribution Center, LLC	3146 S. Chestnut Ave., Fresno, CA 93725	5	Consistently achieved compliance
1013	023	Crop Production Service Inc.	3173 S. Chestnut Ave., Fresno, CA 93725	5	Consistently achieved compliance
1014	024-2	Derrel's Mini Storage	3245 S. Chestnut Ave., Fresno, CA 93725	5	Compliance status unknown
1015	025	Continental Auto Dismantlers (A1 auto wrecking)	3465 S. Chestnut Ave., Fresno, CA 93725	5	Consistently achieved compliance
1016	026	SA Recycling, LLC	3489 S. Chestnut Ave., Fresno, CA 93725	5	Consistently achieved compliance
1017	007-17	New Flyer Industries	3181 S. Willow Suite #102, Fresno, CA 93725	5	Compliance status unknown
1018	032	Snowden Enterprises Inc.	3257 E. Central Ave., Fresno, CA 93725	3	Consistently achieved compliance
1019	007-2	American Cartage Co.	3150 S. Willow Ave, Fresno, CA 93725	5	Consistently achieved compliance
1020	036	Potigian Transfer Inc.	4041 S. Golden State Blvd., Fresno, CA 93725	3	Consistently achieved compliance
1021	044	Coca-Cola Refreshments/Pace Global Energy	3320 E. Malaga Ave., Fresno, CA 93725	3	Consistently achieved compliance
1022	045	EM Tharp dba Golden State Peterbuilt	2645 S. Chestnut Ave., Fresno, CA 93725	3	Consistently achieved compliance
1023	048	Charlie Lambetecchio/R&S Erection Tri-Count	3051 Cartwright Ave., Fresno, CA 93725	5	Consistently achieved compliance
1024	007-3	XSE Group	3149 S. Willow Suite #101, Fresno, CA 93725	5	Consistently achieved compliance
1025	055/055-1	Kinder Morgan/Santa Fe Pacific Pipeline	4149 S. Maple Ave., Fresno, CA 93725	1	Complied with baseline monitoring report requirements
1026	061	Fresno Truck Center	2727 E. Central Ave., Fresno, CA 93725	3	Consistently achieved compliance
1027	062	Mam Oil Inc. (AM PM)	4025 S. Chestnut Ave., Fresno, CA 93725	4	Compliance status unknown
1028	065	Central Cal Transport	3032 E. Central Ave., Fresno, CA 93725	5	Compliance status unknown
1029	073	Lupe Cedillo/Lupe's Auto Repair	3411 S. Golden State Blvd., Fresno, CA 93725	5	Consistently achieved compliance
1030	076-1	Wholesale Equipment of Fresno	3183 S. Golden State Blvd., Fresno, CA 93725	3	Consistently achieved compliance
1031	076-3	Anyway Logistics Inc.	3021 S. Golden State Blvd., Fresno, CA 93725	5	Consistently achieved compliance
1032	078	Bruno's Use Materials	2373 E. Muscat Ave., Fresno, CA 93725	5	Compliance status unknown
1033	084	SS Truck & Trailer Repair	3490 S. Maple Ave., #B, Fresno, CA 93725	5	Consistently achieved compliance
1035	008-A	Europa Sports	4403 E. Central Ave., Fresno, CA 93725	5	Consistently achieved compliance
1036	053/054	Robert V. Jensen Inc.	4021 S. Maple Ave., Fresno, CA 93725	3	Consistently achieved compliance
1037	008-J	APF Motorcycle Salvage	3967 E. Central Ave., Fresno, CA 93725	5	Consistently achieved compliance
1038	008	PPG Industries	3333 S. Peach Ave., Fresno, CA 93725	1	Complied with baseline monitoring report requirements
1039	076	Bruno's Use Materials	3211 S. Golden State Blvd., Fresno, CA 93725	5	Consistently achieved compliance
1040	080	Meeder Eq.Co/Ransome MFG	2365 E. Muscat Ave., Fresno, CA 93725	5	Consistently achieved compliance
1041	089	Safety Kleen Systems, Inc.	3561 S. Maple Ave., Fresno, CA 93725	3	Consistently achieved compliance
1042	094-1	Sportsmobile West	3631 S. Bagley Ave., Fresno, CA 93725	5	Consistently achieved compliance
1043	117	RLR Investments	4477 S. Chestnut Ave., Fresno, CA 93725	5	Compliance status unknown
1044	010-2A	Duncan Ceramics	3555 S. Willow Ave., Fresno, CA 93725	5	Consistently achieved compliance
1045	092	Interstate Oil	3609 S. Bagley Ave., Fresno, CA 93725	5	Consistently achieved compliance
1046	085/087	Meeder Eq.Co/Ransome MFG	3495 S. Maple Ave., Fresno, CA 93725	3	Consistently achieved compliance
1047	094-3	Brothers Wholesale Glass	3680 S. Bagley Ave., Fresno, CA 93725	5	Consistently achieved compliance
1048	096	Javette Truck & Tractor	3667 S. Bagley Ave., #101, Fresno, CA 93725	5	Consistently achieved compliance
1049	097-2	Air-Liquide America	3703 S. Bagley Ave., Fresno, CA 93725	5	Consistently achieved compliance
1050	011.4D	AWR	3816 S. Willow Ave., #104 Fresno, CA 93725	5	Compliance status unknown
1051	101	Pape Materials Handling/Hyster Sales Co.	3732 S. Bagley Ave., Fresno, CA 93725	5	Consistently achieved compliance
1052	102	Central Food Mart	2990 E. Central Ave., Fresno, CA 93725	4	Consistently achieved compliance
1053	104/105	Brooks Ranch Restaurant	4131 S. Chestnut Ave., Fresno, CA 93725	4	Compliance status unknown
1054	106	Evans Rebuild Parts	4321 S. Chestnut Ave., Fresno, CA 93725	5	Consistently achieved compliance
1055	011-3-1	Bay Insulation	3878 S. Willow Ave., #103, Fresno, CA 93725	5	Compliance status unknown
1056	111-A	Chrip Co.	3049 E. Malaga Ave., Fresno, CA 93725	5	Consistently achieved compliance
1057	111-1	Fresno Pool Chlor Inc.	3036 E. Malaga Ave., Fresno, CA 93725	3	Consistently achieved compliance
1058	112/112-1	Penske Truck Leasing/NICS/Penske	3080 E. Malaga Ave., Fresno, CA 93725	3	Consistently achieved compliance
1059	115	Jose's Auto Repair	4436 S. Chestnut Ave., Fresno, CA 93725	5	Consistently achieved compliance
1060	116	Cap's Sandblasting	4460 S. Chestnut Ave., Fresno, CA 93725	3	Consistently achieved compliance
1061	121	Kroeker Inc.	4627 S. Chestnut Ave., Fresno, CA 93725	3	Consistently achieved compliance
1062	051/052/058	Paul Evert's RV Country	3633 S. Maple Ave., Fresno, CA 93725	3	Consistently achieved compliance
1063	001	Group Warehouse Inc.	3550 S. Willow Ave., Fresno, CA 93725	5	Consistently achieved compliance
1064	013-A	Brenntag Pacific Inc.-Pacific Inc.	3595 E. Wawona Ave., Fresno, CA 93725	3	Consistently achieved compliance
1065	098	San-Mac Properties	3711 S. Bagley Ave., Fresno, CA 93725	5	Compliance status unknown
1066	011-3-4	Mac Arthur Company	3878 S. Willow Ave., #102, Fresno, CA 93725	5	Compliance status unknown
1067	042-3	Valley Truck Parts	3395 E. Malaga Ave., Fresno, CA 93725	3	Consistently achieved compliance
1068	011-6A	DNI (supply network)	3825 S. Willow Ave., #103, Fresno, CA 93725	5	Consistently achieved compliance
1069	035	Calpine Containers	3191 E. Central Ave., Fresno, CA 93725	5	Consistently achieved compliance
1070	076-sk**	Pick-A-Parts Auto Wrecking	2274 E. Muscat Ave., Fresno, CA 93725	5	Consistently achieved compliance
1071	068	Turning Point of Central California	3547 S. Golden State Blvd., Fresno, CA 93725	5	Consistently achieved compliance
1072	067	Fresno Truck Service	3599 S. Golden State Blvd., Fresno, CA 93725	5	Consistently achieved compliance
1073	063-064	J. Blue dba Central Carwash	3864 S. Chestnut Ave., Fresno, CA 93725	3	Consistently achieved compliance
1074	012	Monterey Chemical	3594 E. Wawona Ave., Fresno, CA 93725	3	Compliance status unknown
1075	126	Malaga Elementary School	3910 S. Ward Street, Fresno, CA 93725	5	Compliance status unknown
1076	029	Los Dos Amigos	3686 S. Front Street, Fresno, CA 93725	5	Consistently achieved compliance
1077	039A	Ruckstell	3399 E. Malaga Ave., Fresno, CA 93725	5	Consistently achieved compliance
1078	040-1	Green Tec	3396 E. Malaga Ave., Fresno, CA 93725	3	Consistently achieved compliance
1079	099	R. Flake Recycling Inc.	3733 S. Bagley Ave., Fresno, CA 93725	5	Consistently achieved compliance
1080	007-16A	Tire Centers LLC	3181 S. Willow Suite #101, Fresno, CA 93725	5	Consistently achieved compliance
1081	014-1/2	J.P. Lamborn	3663 E. Wawona Ave., Fresno, CA 93725	3	Consistently achieved compliance
1082	017	Monterey Chemical	3744 E. Wawona Ave., #B, Fresno, CA 93725	5	Compliance status unknown
1083	019	Pacific Grain & Foods	3630 E. Wawona Ave., #101, Fresno, CA 93725	5	Consistently achieved compliance
1084	047	Baart Healthcare	3103 E. Cartwright Ave., Fresno, CA 93725	5	Consistently achieved compliance
1085	114	Big Bear Phantom Fireworks	2777 E. Malaga Ave., Fresno, CA 93725	5	Consistently achieved compliance
1086	037	Garcia's Pallets Inc.	4227 S. Golden State Blvd., Fresno, CA 93725	5	Consistently achieved compliance
1087	103-1	Salud Ayala-Bar	2892 E. Central Ave, Fresno, CA 93725	4	Compliance status unknown
1088	069	Fresno Auto Dismantlers	3515 S. Golden State Blvd., Fresno, CA 93725	5	Consistently achieved compliance
1089	088	Fresno Truck Wrecking Inc.	3536 S. Maple Ave., Fresno, CA 93725	3	Consistently achieved compliance
1090	042-2	G & H Diesel Service	3304 E. Malaga Ave., Fresno, CA 93725	3	Consistently achieved compliance
1091	024-4	B.P. Precision	3385 S. Chestnut Ave., Fresno, CA 93725	5	Consistently achieved compliance
1092	026-1	Cemex	3427 S. Chestnut Ave., Fresno, CA 93725	5	Consistently achieved compliance
1093	027-1	Christ The King Church	3565 S. Calvin Street, Fresno, CA 93725	5	Compliance status unknown
1094	076-4A	Stantec Consulting Corp.	3281 S. Maple Ave., Fresno, CA 93725	3	Complied with baseline monitoring report requirements
1095	046	Lester Lube Inc. dba Fresno Truck Wash	4170 S. Bagley Ave., Fresno, CA 93725	1	Consistently achieved compliance
1096	027-2	Martha Shubin (advanced rain gutters)	3439 S. Chestnut Ave., Fresno, CA 93725	5	Consistently achieved compliance

1097	032-3-A	Human Scale	3371 E. Central Ave., Fresno, CA 93725	5	Consistently achieved compliance
1098	029-1/033	Speedy Truck Wash	3846 S. Front/3200 E. Central Fresno, CA 93725	1	Consistently achieved compliance
1099	032-4-A	Activision Publishing	3443 E. Central Ave., Fresno, CA 93725	5	Consistently achieved compliance
1100	046-2	Central California Truck	4244 S. Bagley Ave., Fresno, CA 93725	3	Consistently achieved compliance
1101	107	Roger's Truck Sales & Service	4312 S. Chestnut Ave., Fresno, CA 93725	3	Consistently achieved compliance
1102	050	Stiers RV Center	3672 S. Maple Ave., Fresno, CA 93725	3	Consistently achieved compliance
1103	003/003-1/019-1	GAF Materials Corp.	3441 S. Willow Ave., Fresno, CA 93725	5	Consistently achieved compliance
1104	095	Devey Pest Control	3655 S. Bagley Ave., Fresno, CA 93725	3	Consistently achieved compliance
1106	056	RV Mall	2448 E. Central Ave., Fresno, CA 93725	3	Consistently achieved compliance
1107	006	Weyerhaeuser Corp.	3267 S. Willow Ave., Fresno, CA 93725	5	Consistently achieved compliance
1108	119/119-1	Western States Glass	2773/2775 E. Malaga Ave., Fresno, CA 93725	3	Consistently achieved compliance
1109	110-1	EMV Inc.	3035 E. Malaga Ave., Fresno, CA 93725	5	Consistently achieved compliance
1110	008-G/008-H	Broder Brothers	4247 S. Minnewawa Ave. #104 Fresno, CA 93725	5	Consistently achieved compliance
1111	059	Country Tire & Wheels	2462 E. Central Ave., Fresno, CA 93725	3	Consistently achieved compliance
1112	008-D-A/B	Conway Transportation Services	4195 E. Central Ave., Fresno, CA 93725	3	Consistently achieved compliance
1113	108	G.I. Trucking Co.	4355 S. Chestnut Ave., Fresno, CA 93725	5	Consistently achieved compliance
1114	018	Georgia-Pacific Corrugated (Sterling Coating)	3630 E. Wawona Ave. #104, Fresno, CA 93725	3	Complied with baseline monitoring report requirements
1115	060	Westco Equities/Flamingo Mobilehome	2581 E. Central Ave., Fresno, CA 93725	5	Compliance status unknown
1116	060-1	Cal Trans-Dept of Trans	Highway 99 and Malaga Ave.	5	Compliance status unknown
1117	034	William Shubin	3200 E. Central Ave., Fresno, CA 93725	5	Compliance status unknown
1118	030	Primo's Market	3145 E. Olney Street, Fresno, CA 93725	4	Consistently achieved compliance
1119	101-0	Applied Industrial Tech	3751 S. Bagley Ave., Fresno, CA 93725	5	Consistently achieved compliance
1120	011-1-A/C	Bumz Processor Fresno	3722 S. Willow Ave. #106, Fresno, CA 93725	5	Consistently achieved compliance
1121	007-1	American Warehouse Co. Inc.	3150 S. Willow Ave., Fresno, CA 93725	5	Consistently achieved compliance
1122	086	Jorge Mendez/J auto glass/lose diesel repair	3486 S. Maple Ave., Fresno, CA 93725	5	Consistently achieved compliance
1123	046-1	Vucovich Inc. dba Fresno Equipment Co.	4288 S. Bagley Ave., Fresno, CA 93725	3	Consistently achieved compliance
1124	118	Kasco Fab Inc.	4529 S. Chestnut Ave., Fresno, CA 93725	3	Consistently achieved compliance
1126	011-3-3	Integratred Supply Network	3878 S. Willow Ave., #101 Fresno, CA 93725	5	Consistently achieved compliance
1127	084-1	Weldon Bash	3419 S. Maple Ave., Fresno, CA 93725	5	Consistently achieved compliance
1128	074-1	Mark Graham (collision repairs)	3363 S. Golden State Blvd, Fresno, CA 93725	5	Septic not connected to POTW
1130	085-1	Montes Auto Glass	3435 S. Maple Ave., Fresno, CA 93725	5	Compliance status unknown
1131	044-1	All Mechanical Service Inc.	3237 E. Malaga Ave., Fresno, CA 93725	5	Consistently achieved compliance
1132	049-1	Jack In The Box	3085 E. Central Ave., Fresno, CA 93725	4	Compliance status unknown
1133	041	Best Tours And Travel	3397 E. Malaga Ave., Fresno, CA 93725	3	Consistently achieved compliance
1134	087-2	Frontier Performance Lubricants	3517 S. Maple Ave., Fresno, CA 93725	5	Consistently achieved compliance
1136	101-1	Big W Sales	3766 S. Bagley Ave., Fresno, CA 93725	5	Consistently achieved compliance
1137	010-1A	Primesource Building Products	3555 S. Willow Ave., Fresno, CA 93725	5	Consistently achieved compliance
1138	010-0	RockTenn	3695 S. Willow Ave., Fresno, CA 93725	5	Consistently achieved compliance
1139	024-3	Brenntag	3305 S. Chestnut Ave., Fresno, CA 93725	3	Consistently achieved compliance
1140	008	Air Products & Chemical Inc.	3333 S. Peach Ave., Fresno, CA 93725	1	Complied with baseline monitoring report requirements
1141	024-3-A	Universal Coatings	3373 S. Chestnut Ave., Fresno, CA 93725	5	Consistently achieved compliance
1142	015/016	Monterey Agresources	3744 E. Wawona Ave., #A/C Fresno, CA 93725	3	Compliance status unknown
1143	087-3	Safety Kleen	3521 S. Maple Ave., Fresno, CA 93725	5	Consistently achieved compliance
1144	007-4A	Dynamex	3421 E. North Suite #104, Fresno, CA 93725	5	Compliance status unknown
1146	090	Safety Kleen	3561 S. Maple Ave., Fresno, CA 93725	3	Consistently achieved compliance
1147	110	Radically Custom	4414 S. Chestnut Ave., Fresno, CA 93725	5	Consistently achieved compliance
1148	007-5A/6A	Mercury Marine	3421 E. North Suite #103/101, Fresno, CA 93725	5	Consistently achieved compliance
1149	008-E/F	Activision Publishing Inc.	4247 S. Minnewawa Ave., Fresno, CA 93725	5	Consistently achieved compliance
1150	008-C/D	Pactiv LLC	4403 E. Central Ave., #104 Fresno, CA 93725	5	Compliance status unknown
1151	091/091-1	Quinn Rentals Services	3594 S. Bagley Ave., Fresno, CA 93725	3	Consistently achieved compliance
1152	011-3-2	Gould's Pump (Xylem Inc)	3878 S. Willow Ave., #104 Fresno, CA 93725	5	Compliance status unknown
1154	032-3-B	Community Food Bank	3403 E. Central Ave., Fresno, CA 93725	5	Consistently achieved compliance
1155	007-14-A	Sindair Systems	3115 S. Willow Ave., Fresno, CA 93725	5	Consistently achieved compliance
1156	022-1/2	American Tire Distributors	3064 S. Chestnut Ave., Fresno, CA 93725	5	Consistently achieved compliance
1157	113	Plaza Concrete	3121 E. Malaga Ave., Fresno, CA 93725	5	Compliance status unknown
1158	120-1	Fresno Specialized Development	4646 S. Chestnut Ave., Fresno, CA 93725	3	Consistently achieved compliance
1159	035-2B	Taqueria Jalisciense	3121 E. Central Ave., Fresno, CA 93725	4	Consistently achieved compliance
1205	022-4	Imperial Truck Wash	2635 E. North Ave., Fresno, CA 93725	1	Consistently achieved compliance
1161	122	Punjabi Dhaba (indian cuisine)	3767 S. Golden State Blvd., Fresno, CA 93725	4	Consistently achieved compliance
1162	047-1	JTS Truck Repair	3054 Cartwright, Fresno, CA 93725	3	Consistently achieved compliance
1163	035-2A	Sai Baba/Subway	3115 E. Central Ave., Fresno, CA 9.725	4	Consistently achieved compliance
1164	032-2A	Sabic Polymershapes	3311 E. Central Ave., Fresno, CA 93725	5	Consistently achieved compliance
1166	011-5A	School Specialty	3825 S. Willow Ave., #101, Fresno, CA 93725	5	Consistently achieved compliance
1167	037-037-2/037-2	Prattree Pump	4570 S. Maple Ave, Fresno, CA 93725	5	Septic not connected to POTW
1168	007-C	Hanser Music Group	4476 S. Maple Ave, Fresno, CA 93725	5	Septic not connected to POTW
1168	007-C	Hanser Music Group	3131 S. Willow Suite #102 Fresno, CA 93725	5	Consistently achieved compliance
1169	097-1	Diesel Technology	3689 S. Bagley Ave., Fresno, CA 93725	3	Consistently achieved compliance
1170	011-4A	New Breed Logistics	3825 S. Willow Ave., #104, Fresno, CA 93725	5	Consistently achieved compliance
1173	094-A	Del Ray Tire	3666 S. Bagley Ave., Fresno, CA 93725	5	Consistently achieved compliance
1174	026	William Shubin	3477 S. Chestnut Ave., Fresno, CA 93725	5	Compliance status unknown
1175	008-1	D & H Distributing	3701 S. Minnewawa Ave., Fresno, CA 93725	5	Consistently achieved compliance
1176	098-1	Foster Poultry Farms	3717 S. Bagley Ave., Fresno, CA 93725	5	Consistently achieved compliance
1177	036-1	Garcia's Pallets	4125 S. Golden State Blvd., Fresno, CA 93725	5	Consistently achieved compliance
1178	007-3-A	Provide Commerce	3149 S. Willow Suite #102, Fresno, CA 93725	5	Consistently achieved compliance
1181	014	A to Z Properties (Valley Express)	3630 E. Wawona Ave. #105, Fresno, CA 93725	5	Consistently achieved compliance
1182	007-11	Rotary Corp.	3359 E. North Suite #102, Fresno, CA 93725	5	Consistently achieved compliance
1183	007-7/8/8A	Bodek & Rhodes	3395 E. North Ave, Fresno, CA 93725	5	Consistently achieved compliance
1185	008-00	Weston Hathaway	4025 E. Central Ave., Fresno, CA 93725	5	Consistently achieved compliance
1186	011.4C	Ring & Pinlon Services	3816 S. Willow #103, Fresno, CA 93725	5	Compliance status unknown
1188	011.4A	Oro Agri Inc.	3816 S. Willow #101, Fresno, CA 93725	3	Consistently achieved compliance
1190	028	William Shubin	3698 S. Chestnut Ave., Fresno, CA 93725	5	Compliance status unknown
1191	035-1-A	Cossette Investments Co. Inc.	4025 S. Golden State Blvd., Fresno, CA 93725	5	Compliance status unknown
1192	070	GGC Enterprises (Goldiggers)	3507 S. Golden State Blvd., Fresno, CA 93725	5	Consistently achieved compliance
1196	120	United Parcel Service	4587 S. Chestnut Ave., Fresno, CA 93725	3	Consistently achieved compliance
1197	076-2	Willowland (ayala truck parts)	3147 S. Golden State Blvd., Fresno, CA 93725	5	Consistently achieved compliance
1198	092-1	Leap Truck Body Repair	3620 S. Bagley Ave., Fresno, CA 93725	5	Consistently achieved compliance
1201	087-1	Gilda Barret	3511 S. Maple Ave., Fresno, CA 93725	5	Consistently achieved compliance
1202	007-12	KAO USA Inc.	3359 E. North Suite #104, Fresno, CA 93725	5	Consistently achieved compliance
1203	007-13-A/B	Metropolitan Automotive Warehouse Inc.	3117/3119 S. Willow Ave. Fresno, CA 93725	5	Compliance status unknown
1204	022-3	Kings River Conservation District	2611 E. North Ave., Fresno, CA 93725	5	Consistently achieved compliance
1160	122-2	Fifth Wheel Truck Wash	3767 S. Golden State Blvd., Fresno, CA 93725	1	Did not achieve compliance
1205	093	(Circle Racing Wheels) Mike & Sherrie Stallings	3632 S. Bagley Ave., Fresno, CA 93725	5	Consistently achieved compliance
1207	094-1A	M5 Fire Protection Inc.	3644 S. Bagley Avenue, Fresno CA 93725	5	Consistently achieved compliance
1187	009/011	Public Works	none	5	Landscaping
1187	011.4B	Kent Landberg (Landberg Orora)	3816 S. Willow #102, Fresno, CA 93725	5	Consistently achieved compliance
1079	099-A	J's communication	3733 S. Bagley Ave. #C, Fresno, CA 93725	5	Consistently achieved compliance
1079	099-B	valley rubber and gasket	3733 S. Bagley Ave. #D, Fresno, CA 93725	5	Consistently achieved compliance
1048	096-A	Hose and Fittings Etc.	3667 S. Bagley Ave., #102 Fresno, CA 93725	5	Consistently achieved compliance

1212	130	godinez auto body parts	3386 S. Maple Ave., Fresno CA 93725	5	Consistently achieved compliance
1131	044-1-A	all pure pool service	3237 E. Malaga Ave., Fresno, CA 93725	5	Consistently achieved compliance
1070		7 star auto glass	3355 S. Maple Ave., Fresno, CA 93725	5	Consistently achieved compliance
1070		pick-a-lock	2274 E. Muscat Ave., Fresno, CA 93725	5	Consistently achieved compliance
1208	124	js trailer repair	3741 S. Goldenstate Blvd., Fresno CA 93725	5	Consistently achieved compliance
1209	069-1	Fresno Foreign Wrecking	3525 S. Golden State Blvd., Fresno CA 93725	5	Consistently achieved compliance
1160	123	SIZ Truck Stop	3767 S. Golden State Blvd., Fresno, CA 93725	4	Consistently achieved compliance
1098	029-1	Moga Tire	3846 S. Front Ave., Fresno CA 93725	5	Consistently achieved compliance
1002	006-2	Bimbo Bakeries USA, Inc.	3292 S. Willow Ave., Fresno CA 93725	5	Compliance status unknown
1714	129	FedEx Freight	2574 S. Maple Ave., Fresno CA 93725	5	Service not connected to POTW

Attachment B: Budget

	PROPOSED BUDGET FY 2014/2015	YTD ACTUAL EXPENSES	YTD BALANCES
PRETREATMENT			
<u>77000 Pre-Treatment Collection:</u>			
77000 Salaries	33,780	16,640	17,140
77100 Materials	15,000	11,774	3,226
Total.	48,780	28,414	20,366
<u>78000 Sewage Treatment:</u>			
78000 Testing	13,000	-	13,000
78100 Utilities	16,840	-	16,840
Total	29,840	-	29,840
<u>79000 Administrative & General:</u>			
79000 Salaries	21,800	7,009	14,791
79020 Employee Benefits	16,900	9,911	6,989
79021 FICA	5,560	2,882	2,678
79022 Unemployment Insurance	2,000	235	1,765
79025 Sick Leave	-	-	-
79026 Overtime	1,100	683	417
79030 Directors' Compensation	3,020	344	2,676
79036 Directors' Benefits	14,930	864	14,066
79040 Election Expense	-	-	-
79060 Gas-Fuel-Oil	7,000	361	6,639
79070 Insurance-Liability	1,300	1,725	(425)
79080 Memberships	5,120	10,846	(5,726)
75090 Office Supplies	1,100	1,302	(202)
79110 Contract Services	23,800	15,662	8,138
79120 Professional Service*			
*Accounting Services	500	1,000	(500)
*Engineering Services	28,000	1,289	26,711
*Legal Services	19,200	31,035	(11,835)
79140 Rents/Leases	4,300	687	3,613
79150 Repair & Maintenance	-	1,293	(1,293)
79170 Travel & Meetings	3,000	317	2,683
79190 Utilities	-	-	-
79200 Other*	6,000	3,663	2,337
79206 Telephone	1,200	1,061	139
79220 Schooling/Registration	2,000	510	1,490
79240 Donation	-	-	-
Bartle Wells	-	1,193	(1,193)
Total:	167,830	93,872	73,958
TOTAL PRETREATMENT:	\$ 246,450	\$ 122,286	\$ 124,164

Attachment C: Industrial User Wastewater Discharge Permit



Industrial User Wastewater Discharge Permit

Part 1: Standard Conditions

1. Duty to Comply

The permitted Industrial User ("User") shall comply with all of the conditions of this Individual Wastewater Discharge Permit ("Permit") and all of the provisions, terms, and requirements of the Malaga Code ("Code"), the Pretreatment Program, the Clean Water Act ("Act") and all orders, ordinances, rules, resolutions, and regulations of the District, including but not limited to connection permits and baseline discharge requirements. Failure to comply with the requirements of this permit may be grounds for enforcement action, including civil or criminal penalties, injunctive relief and summary abatements as set forth in the District's Enforcement Response Plan ("ERP").

2. Duty to Mitigate

The User shall take all reasonable steps to minimize or correct any adverse impact to the wastewater treatment system or the environment resulting from noncompliance with this Permit including such accelerated or additional monitoring and sampling or other orders as necessary to determine the nature and impact of and to correct the non-complying discharge.

3. Permit Modification

The District may modify the Permit for good cause, including but not limited to, the following reasons:

- a. To incorporate any new or revised Federal, State, or local pretreatment standards or requirements;
- b. To address significant alterations or additions to the User's operation, processes, or wastewater volume or character since the effective date of the individual wastewater discharge Permit issued;

- c. A change in any process or discharge condition in either the industrial user or the POTW that requires either a temporary or permanent reduction or elimination of the authorized discharge;
- d. Information indicating that the permitted discharge poses a threat to the Control Authority's collection and treatment systems, WWTF and equipment, personnel or the receiving waters;
- e. Violation of any terms or conditions of the Permit;
- f. Misrepresentation or failure to disclose fully all relevant facts in the Permit application or in any required reporting;
- g. Revision of or a grant of variance from such categorical standards pursuant to 40 CFR 403.13;
- h. To correct typographical or other errors in the Permit;
- i. To reflect of the facility ownership and/or operation to a new owner/operator; or
- j. Upon request of the User, provided such request does not create a violation of any applicable requirements, standards, laws, or rules and regulations.

The filing of a request by the User for a Permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay or modify any Permit condition.

4. Retention of Records

In addition to the record keeping requirements of the Malaga Code, Pretreatment program and the Act, the User shall retain records as follows:

- a. The industrial user shall retain records of all monitoring information, copies of all reports required by this permit and records of all data used to complete the application for this permit, for a period of at least three years from the date of the sample, measurement, report or application. This period may be extended by the request of the District at any time.
- b. All records that pertain to matters that are the subject of special orders or any other enforcement or litigation activities brought by the District shall be retained and preserved by the industrial user for three years after all enforcement activities have concluded and the time to bring any appeal(s) have expired.

5. Permit Termination

This Permit may be terminated for the following reasons:

- a. Failure to notify the District of significant changes to the wastewater prior to the change discharge;
- b. Failure to provide prior notification to the District of changed conditions;
- c. Misrepresentation or failure to fully disclose all relevant facts in wastewater discharge Permit application;
- d. Falsifying self-monitoring reports and/or certification statements;
- e. Tampering with monitoring equipment;
- f. Refusing to allow timely access to the facility premises and records;
- g. Failure to meet effluent limitations;
- h. Failure to pay fines;
- i. Failure to pay sewer charges;
- j. Failure to meet compliance schedules;
- k. Failure to complete a wastewater survey and renewal form, or the wastewater discharge Permit application;
- l. Failure to provide advance notice of the transfer of business ownership of a permitted facility; or
- m. Violation of any pretreatment standard or requirement including required BMPs contained in the Code, or the wastewater discharge Permit, or the Pretreatment Program.

6. Notification and Reporting

In addition to the record keeping and reporting requirements of the Malaga Code, the Pretreatment Program, and the Act, the User shall notify the District prior to any new or changed discharge, and shall immediately notify the District at (559) 485-7353 of any wastewater discharge which is not in compliance with this Permit, or the Pretreatment Program, or the Code, or which might be reasonably judged to constitute a hazard to District personnel, the wastewater treatment system, or the environment.

The User shall furnish any information relating to wastewater discharge quantity and quality as required by the District, and shall comply with all reporting requirements specified in this Permit.

7. Costs and Fees

The User shall pay all fees and charges required by District ordinances, including but not limited to, permit fees, connection fees, annexation fees, bond debt services charges, and sewer unit fees.

The User shall also pay any additional cost or expenses incurred by the District for handling and treating excess loads imposed on the treatment system and any cost or expense incurred by the District in the enforcement of the provisions of its ordinances and the correction of violations thereof.

8. Facilities

The User shall make wastewater acceptable under the limitations of the Code and the Pretreatment Program before discharging to the sewage system. Any facilities required to pretreat wastewater to a level acceptable to the District shall be provided and maintained at the User's expense. Detailed plans showing the pretreatment facilities and operating facilities shall be submitted to the District for review, and shall be acceptable to and approved by the District, in writing, before construction of the facility. The review of such plans and operating procedures will in no way relieve the User from the responsibility of modifying the facility as necessary to produce an effluent acceptable to the District under the provisions of the Malaga Code. Any subsequent changes in the pretreatment facilities or method of operation shall be reported to, and be approved in writing by, the District.

Pretreatment facilities (including sampling and flow monitoring facilities) shall be maintained in good working order and shall be operated so as to ensure continuous compliance with District ordinances, resolutions, rules and regulations, and any applicable permits by the User at the User's own cost and expense. Pretreatment facilities are at all times subject to the requirements of these rules and regulations and all other applicable codes, ordinances, and laws. Intermittent operation of pretreatment facilities except as provided for in writing by the District during discharge to the sewage system is prohibited.

All solids, sludge, filter backwash or other pollutants removed by pretreatment facilities shall not be discharged to the sewage system, nor allowed to enter any storm water or ground water recharge system, nor allowed to seep into the ground, but shall be stored, treated and/or disposed of in accordance with applicable County, State and Federal regulations.

9. Right of Entry

Pursuant to the provisions of the Malaga Code, the User shall allow District personnel, upon the presentation of credentials, to enter upon any property or premises, the User, by accepting any permit issued pursuant to the Code, does hereby consent and agree to the entry upon the premises, described in the Permit, by District personnel for the following purposes as required by the Permit at all reasonable times:

- a. Reviewing and copying any records required to be kept under the provisions of the Malaga Code;
- b. Inspecting any monitoring equipment, pretreatment facility or discharge-producing process;
- c. Inspecting and/or sampling any discharge of wastewater to the wastewater facilities. District personnel may enter upon the property at any hour under emergency circumstances. In the event of such emergency entry, District personnel shall make every effort to immediately notify the User's designated agent;
- d. To investigate the possible violation of the Malaga Code or Permit;
- e. To photograph any waste, waste container, vehicle, waste treatment process, discharge location, or violation discovered during an inspection.
- f. Users shall cooperate at all times with authorized District personnel in the inspection, sampling and study of the User's facilities and wastewater.

10. Duration

The terms and conditions of this Permit shall remain in effect until either:

- a. The Permit is modified;
- b. The Permit is revoked;
- c. The Permit expires and cause is determined for non-renewal of the Permit;
- d. Any change in ownership or operation of User (see section 13.);
- e. Failure of the District to act upon a valid Permit application or renewal application shall allow for automatic extension of operations under existing Permit conditions until such District action is complete.

This Permit allows the User to operate only one industrial wastewater discharge point to the sewer collection system.

11. Severability

The provisions of this Permit are severable, and if any provisions of this Permit or the application of any provision of this Permit to any circumstances is held invalid, the application of such provision to other circumstances and the remainder of the Permit shall not be affected hereby.

12. Transferability

This Permit shall not be reassigned, transferred, or sold to a new owner, new user, different premises, or to a new or changed operation.

13. Enforcement and Penalties

Failure to comply with any of the provisions of this Permit, the Malaga Code, or applicable State or Federal laws or regulations may result in any or all of the following actions as set forth in the District's ERP:

- a. Administrative actions including but not limited to Notices of Violation, Administrative Orders, Administrative Citations, Administrative Complaints, Administrative Hearings, Governing Board Hearings, Compliance Orders, Orders to Show Cause and civil penalties in an amount of not less than one thousand dollars (\$1,000) per day, per violation;
- b. Legal actions including but not limited to preliminary or permanent injunctions, or both;
- c. Civil and/or criminal penalties;
- d. Permit revocation;
- e. Temporary or permanent disconnection from the District's sewerage system;
- f. Water supply severance.

14. Appeals

Any User affected by any decision, action, or determination, including Administrative Orders, issued by the District, interpreting or implementing the provisions of The Malaga Code or any permit or Order issued thereunder, may file with the District a written request for reconsideration within ten (10) days of such decision, action, or determination, setting forth in detail in facts supporting the User's request for reconsideration.

If the ruling made by the Manager is unsatisfactory to the person requesting reconsideration, this person may, within ten (10) days after notification of District action, file a written appeal to the District's Board of Directors. The written appeal shall be heard by the body within sixty (60) days from the date of filing. The District's Board of Directors shall make a final ruling on the appeal within ten (10) days of the close of the meeting. The Manager's decision, action, or determination shall remain in effect during such period of reconsideration.

Any User aggrieved by a final order issued by the Board of Directors may obtain review of the order of the Board in the Superior Court by filing in the court a petition for writ of mandate within thirty (30) days following the service of a copy of a decision and order issued by the Board.

If no aggrieved party petitions for writ of mandate within the time provided by this section, an order of the Board shall not be subject to review by any court or agency, except that the Board may grant review on its own motion after the expiration of the time limits.

15. Definitions

- a. Composite Sample. A representative sample, formed either by continuous sampling or by mixing discrete samples. The sample may be composited either as a:
 - 1) Time based composite sample: composed of discrete sample aliquots collected in one container at constant time intervals providing representative samples irrespective of stream flow; or a
 - 2) Flow-proportional composite sample: collected either as a constant sample volume at time intervals proportional to stream flow, or collected by increasing the volume of each aliquot as the flow increases while maintaining a constant time interval between the aliquots.
- b. Daily Maximum. The maximum allowable discharge limit of a pollutant expressed in units of mass per day. Where daily maximum limits are expressed in terms of a concentration, the daily discharge is the arithmetic average measurement of the pollutant concentration derived from all measurements taken that day.
- c. Grab Sample. An individual sample collected without regard for flow or time.
- d. Instantaneous Maximum Concentration. The maximum concentration allowed in any single grab sample.
- e. Cooling Water. Either,
 - 1. Uncontaminated – Water used for cooling purposes only which has no direct contact with any raw material, intermediate, or final product and which does not contain a level of contaminants detectably higher than that of the intake water.
 - 2. Contaminated – Water used for cooling purposes only which may become contaminated either through the use of water treatment chemicals used for corrosion inhibitors or biocides, or by direct contact with process materials and/or wastewater.
- f. Monthly Average. The arithmetic mean of the values for effluent samples collected during a calendar month or specified 30 day period (as opposed to a rolling 30 day window). Compliance with the monthly average discharge limit is required regardless of the number of samples collected and analyzed.

- g. Bi-Weekly. Once every other week.
- h. Bi-Monthly. Once every other month.
- i. Upset. An exceptional incident resulting in temporary and unintentional non-compliance because of factors beyond the reasonable control of the discharger.
- j. Bypass. Means the diversion of wastes from any portion of a pretreatment process or facility.

16. Dilution

The User shall not increase the use of potable water or process water or, in any way, attempt to dilute a discharge as a partial or complete substitute for adequate treatment to achieve compliance with a discharge limitation unless expressly authorized by an applicable Pretreatment Standard or Requirement. The District may impose mass limitations to meet applicable Pretreatment Standards or requirements, or in other cases when the imposition of mass limitations is appropriate.

Part 2: Discharge Prohibitions and Limitations

1. Standard Discharge Prohibitions

The User shall comply with all discharge prohibitions and limitations specified in the Malaga Code, the Pretreatment Program, and this Permit. Prohibitions include but are not limited to:

- a. Any materials that may cause interference or pass through;
- b. Oils and Grease in any amounts that may cause an obstruction in the sewer collection system;
- c. Explosive mixtures;
- d. Noxious materials;
- e. Shredded garbage;
- f. Solid or viscous waste that cause an obstruction or decrease flow in the sewer collection system to less than two feet per second;
- g. Slug loads not coordinated with the District by a Slug Control Plan;
- h. Toxic or hazardous materials;

- i. Unpolluted waters;
- j. Wastes with objectionable color or odor;
- k. Corrosive waste;
- l. Trucked or hauled waste;
- m. Sludge, screenings, or other residues from wastewater pretreatment;
- n. Medical wastes;
- o. Detergents, surface active agents, or other substances that may cause excessive foaming at the WWTF;
- p. Any substance that will interfere or upset the treatment process at the WWTF;
- q. Any substance that may result in the WWTF exceeding NPDES permit limits.

2. Discharge Local Limits

The following local limits apply to discharge into the sewer collection system:

- a. pH not less than 6.0 standard units and not greater than 9.0 standard units;
- b. Electro-conductivity (EC) not greater than 950 u-ohm/cm;
- c. Biochemical Oxygen Demand (BOD) not greater than 1000 mg/l, surcharge above 300 mg/l;
- d. Total Suspended Solids (TSS) not greater than 1000 mg/l, surcharge above 300 mg/l;
- e. Petroleum based (non-polar) Oil and Grease (O&G) including TPH, TPHd and TPHg in concentration above 100 mg/l;
- f. Animal and vegetable (polar) O&G not greater than 300 mg/l;
- g. Discharge of the following Pollutants of Concern (POC's) above Local Limits:

Pollutant	Local Limit
Iron	TBD
Lead	5.0 mg/l at any time
Silver	5.0 mg/l at any time
Arsenic	5.0 mg/l at any time
Benzene	5.0 mg/l at any time
Phenols	1.0 mg/l at any time

Cadmium	0.10 mg/l at any time
Zinc	5.0 mg/l at any time
Chromium	5.0 mg/l at any time
Copper	5.0 mg/l at any time
Aluminum	5.0 mg/l at any time
Mercury	0.20 mg/l at any time
Barium	10.0 mg/l at any time
Nickel	5.0 mg/l at any time
Selenium	1.0 mg/l at any time
Boron	8.0 mg/l at any time
Chloride	TBD
Cyanide	TBD
Ammonia, as N	TBD
Nitrite + Nitrate, as N	TBD
Phosphorus	TBD
Fluoride	TBD
Diazinon	TBD
Calcium	TBD
Magnesium	TBD

h. Discharge of wastewater that:

- a. Contains solids that will not pass through a 20 per square inch mesh;
- b. Has a temperature greater than 104 degrees Fahrenheit;
- c. Has an alkalinity that is greater or less than 10% of source water;

Part 3: Monitoring and Reporting Requirements

1. General Monitoring Requirements

- a. The Manager may require any User to monitor wastewater discharge and submit monitoring reports to the District, at a frequency specified by the District.
- b. The User shall comply with all monitoring requirements specified in this Permit or otherwise required, in writing, by the District.
- c. Flow monitoring and sampling equipment may be required and shall comply with all applicable provisions of this Permit and the Malaga Code.
- d. If required, laboratory analysis of industrial wastewater samples shall be performed in accordance with the approved test procedures specified in 40CFR136 unless otherwise authorized, in writing, by the District.

- e. If required, all samples must be collected, preserved, and analyzed in accordance with the procedures established in 40 CFR Part 136, and amendments.
- f. If required, the User shall have an automated sampler that shall be maintained in accordance with manufacturer's recommendations, shall be cleaned once per month when in use, and samples shall be maintained at 4.0°C ($\pm 2.0^\circ\text{C}$).
- g. If required, the User shall operate and maintain an effluent flowmeter, have it electronically calibrated annually and hydraulically calibrated every three years by a recognized professional in flowmeter testing and repair, and provide proof of calibration to the District prior to July 31 annually.
- h. If required, continuous on-line monitoring equipment shall be maintained and calibrated in accordance with manufacturer's specifications.
- i. If required, to install, operate and maintain at User's cost and expense an automatic, permanent wastewater flow monitoring system approved by the District which provides a primary flow measuring device, indication, recording and totalizing of flow and a signal generating device that can be used to activate the District's and other automatic samplers.
- j. If required, to install, operate and maintain at User's cost and expense an automatic wastewater sampling system approved by the District which provides a flow proportional composite sample, a sample volume of not less than two liters, refrigerated storage and self-purging capability.
- k. If required, to install, operate and maintain at User's cost and expense an automatic pH recording system approved by the District which provides a pH recording instrument and a pH probe located downstream of all Pretreatment operations and just before discharge to the sewage system.
- l. If required, to install, operate and maintain at User's cost and expense a batch pH neutralization system approved by the District which provides a storage facility for wastewater of pH less than 6.0 or greater than 9.0, a pH measuring device, neutralizing agent and a permanently bound record of pH neutralization before discharge to the sewage system.
- m. If required, to install, operate and maintain at User's cost and expense an automatic pH recording and control system approved by the District which provides a pH recording instrument, a pH probe located downstream of all Pretreatment operations and just before discharge into the sewage system, storage for a neutralizing agent, a neutralization chamber, a continuous neutralizing agent injection system activated by pH level and adequate agitation.

2. Specific Monitoring and Sampling Requirements

Individual User monitoring and sampling requirements may be required and shall be attached to this permit by separate sheet.

a. The User may be required to monitor the following parameters:

1. Flow and/or cumulative quantity of receiving water
2. Flow and/or cumulative quantity of discharge water
3. Discharge flow temperature, pH and EC.

b. The User may be required to monitor parameters and Pollutants of Concern (POC's) listed below:

1. pH
2. Settleable Solids (SS) and Total Solids (TS)
3. Total Suspended Solids (TSS)
4. BOD (5 day)
5. Electro-conductivity (EC)
6. Ammonia, as N
7. Nitrite + Nitrate, as N
8. Oil and Grease (HEM-polar)
9. Oil And Grease (Petroleum-non polar)
10. Alkalinity
11. Hardness
12. Calcium
13. Magnesium
14. Boron
15. Chloride
16. Cyanide
17. Phosphorus
18. Fluoride
19. Diazinon
20. Iron
21. Lead
22. Silver
23. Arsenic
24. Benzene
25. Phenols
26. Cadmium
27. Zinc
28. Chromium
29. Copper
30. Aluminum
31. Mercury
32. Barium
33. Nickel
34. Selenium

- c. The User may be required to monitor Priority Pollutants listed below. In lieu of monitoring for Priority Pollutants, the User may submit a toxic organics management plan (TOMP) to the District for approval. Preparation of the TOMP must be done in accordance with EPA regulations and approved by the District. If approved, the User may submit the certification statement as set forth in Part 3.5.a of this Permit. If the User fails to certify, sign, and submit the certification statement, the User will be required to conduct Priority Pollutant monitoring.

Appendix A to 40 CFR, Part 423--126 Priority Pollutants

001 Acenaphthene	047 Bromoform (tribromomethane)	090 Dieldrin
002 Acrolein	048 Dichlorobromomethane	091 Chlordane (technical mixture and metabolites)
003 Acrylonitrile	051 Chlorodibromomethane	092 4,4-DDT
004 Benzene	052 Hexachlorobutadiene	093 4,4-DDE (p,p-DDX)
005 Benzdine	053 Hexachloromyclopentadiene	094 4,4-DDD (p,p-TDE)
006 Carbon tetrachloride (tetrachloromethane)	054 Isophorone	095 Alpha-endosulfan
007 Chlorobenzene	055 Naphthalene	096 Beta-endosulfan
008 1,2,4-trichlorobenzene	056 Nitrobenzene	097 Endosulfan sulfate
009 Hexachlorobenzene	057 2-nitrophenol	098 Endrin
010 1,2-dichloroethane	058 4-nitrophenol	099 Endrin aldehyde
011 1,1,1-trichloroethane	059 2,4-dinitrophenol	100 Heptachlor
012 Hexachloroethane	060 4,6-dinitro-o-cresol	101 Heptachlor epoxide (BHC-hexachlorocyclohexane)
013 1,1-dichloroethane	061 N-nitrosodimethylamine	102 Alpha-BHC
014 1,1,2-trichloroethane	062 N-nitrosodiphenylamine	103 Beta-BHC
015 1,1,2,2-tetrachloroethane	063 N-nitrosodi-n-propylamin	104 Gamma-BHC (lindane)
016 Chloroethane	064 Pentachlorophenol	105 Delta-BHC (PCB-polychlorinatedbiphenyls)
018 Bis(2-chloroethyl) ether	065 Phenol	106 PCB-1242 (Arochlor 1242)
019 2-chloroethyl vinyl ether (mixed)	066 Bis(2-ethylhexyl) phthalate	107 PCB-1254 (Arochlor 1254)
020 2-chloronaphthalene	067 Butyl benzyl phthalate	108 PCB-1221 (Arochlor 1221)
021 2,4, 6-trichlorophenol	068 Di-N-Butyl Phthalate	109 PCB-1232 (Arochlor 1232)
022 Parachlorometa cresol	069 Di-n-octyl phthalate	110 PCB-1248 (Arochlor 1248)
023 Chloroform (trichloromethane)	070 Diethyl Phthalate	111 PCB-1260 (Arochlor 1260)
024 2-chlorophenol	071 Dimethyl phthalate	112 PCB-1016 (Arochlor 1016)
025 1,2-dichlorobenzene	072 1,2-benzanthracene (benzo(a)anthracene)	113 Toxaphene
026 1,3-dichlorobenzene	073 Benzo(a)pyrene (3,4-benzo-pyrene)	114 Antimony
027 1,4-dichlorobenzene	074 3,4-Benzofluoranthene (benzo(b)fluoranthene)	115 Arsenic
028 3,3-dichlorobenzidine	075 11,12-benzofluoranthene (benzo(b) fluoranthene)	116 Asbestos
029 1,1-dichloroethylene	076 Chrysene	117 Beryllium
030 1,2-trans-dichloroethylene	077 Acenaphthylene	118 Cadmium
031 2,4-dichlorophenol	078 Anthracene	119 Chromium
032 1,2-dichloropropane	079 1,12-benzoperylene (benzo(ghi) perylene)	120 Copper
033 1,2-dichloropropylene (1,3-dichloropropene)	080 Fluorene	121 Cyanide, Total
034 2,4-dimethylphenol	081 Phenanthrene	122 Lead
035 2,4-dinitrotoluene	082 1,2,5,6-dibenzanthracene (dibenzo(h)anthracene)	123 Mercury
036 2,6-dinitrotoluene	083 Indeno (,1,2,3-cd) pyrene (2,3-o-pheynylene pyrene)	124 Nickel
037 1,2-diphenylhydrazine	084 Pyrene	125 Selenium
038 Ethylbenzene	085 Tetrachloroethylene	126 Silver
039 Fluoranthene	086 Toluene	127 Thallium
040 4-chlorophenyl phenyl ether	087 Trichloroethylene	126 Silver
041 4-bromophenyl phenyl ether	088 Vinyl chloride (chloroethylene)	128 Zinc
042 Bis(2-chloroisopropyl) ether	089 Aldrin	129 2,3,7,8-tetrachloro-dibenzo-p-dioxin (TCDD)
043 Bis(2-chloroethoxy) methane		
044 Methylene chloride (dichloromethane)		
045 Methyl chloride (dichloromethane)		
046 Methyl bromide (bromomethane)		

3. Reporting Requirements

- a. The District may require any User to submit monitoring reports in a format and at a frequency specified by the General Manager. The User shall comply with all reporting requirements specified in this Permit or otherwise required, in writing, by the District and all monitoring and reporting requirements of the Malaga Code.
- b. All Users subject to Federal categorical pretreatment standards shall comply with all applicable reporting requirements specified in 40CFR403.12.
- c. Users shall immediately notify the District prior to any new or changed discharge, and shall immediately notify the District (phone 559-485-7353) of any wastewater discharge which is not in compliance with the Permit or the Malaga Code, or which might be reasonably judged to constitute a hazard to District personnel, the wastewater treatment system, or the environment.
- d. Users shall immediately notify the District of any changes that occur at the facility affecting the potential for a Slug Discharge so that the POTW may reevaluate the need for a Slug Control Plan or other actions to prevent such discharges.
- e. Users shall provide a site plan showing the location of all wastewater treatment facilities (grease traps, sand separators, etc.)
- f. Users shall monitor grease traps weekly and record scum and solids levels.
- g. Users shall maintain a District approved hazardous waste inventory accounting system which includes a bound log book containing permanent entries that account, either by mass or by volume, for the disposition of substances prohibited by the Malaga Code or this Permit.
- h. Users shall keep waste hauler reports on file for a period of three years.
- i. Users shall maintain a manifest from all trucks washed at a truck wash facility. A copy of the manifest shall be submitted to the District on demand to confirm the contents of trucks washed out.
- j. Users shall maintain a log of all wastewater and solids removed from the premise, to include the destination of the hauled materials, and submit copies of the log on a quarterly basis to MCWD for the first year and annually thereafter.
- k. Monitoring results obtained must be summarized and reported in a format acceptable to the District.

- l. Reports for parameters with a continuous monitoring frequency must be submitted monthly. The reports are due within 15 days after the end of each calendar month.
- m. Reports for parameters with a designated monitoring frequency must be submitted within 15 days after the reporting period.
- n. All monitoring reports must indicate the nature and concentration of all pollutants in the effluent for which sampling and analysis were performed during the reporting period preceding the submission of each report, including measured maximum and average daily flows.
- o. All reports required by this Permit must be submitted to the Malaga County Water District at the following address:

Malaga County Water District
Environmental Compliance Inspector
3580 S. Frank Street
Fresno, CA 93725

4. Recordkeeping.

Users subject to the reporting requirements of this Code shall retain, and make available for inspection and copying, all records of information obtained pursuant to any monitoring activities required by this Code, any additional records of information obtained pursuant to monitoring activities undertaken by the User independent of such requirements, and documentation associated with Best Management Practices established under this Code. Records shall include the date, exact place, method, and time of sampling, and the name of the person(s) taking the samples; the dates analyses were performed; who performed the analyses; the analytical techniques or methods used; and the results of such analyses. These records shall remain available for a period of at least three (3) years. This period shall be automatically extended for the duration of any litigation concerning the User or the District, or where the User has been specifically notified of a longer retention period by the General Manager, or his or her designee.

5. Certification Statements

- a. The User is required to sign and submit the following certification statement if granted use of a Toxic Organic Management Plan in lieu of reporting Priority Pollutants:

“Based on my inquiry of the permit or persons directly responsible for managing compliance with the pretreatment standard for Priority Pollutants (PP’s), i certify that, to the best of my knowledge and belief, no dumping of concentrated priority pollutant toxic organics into the wastewaters has occurred since filing of the last discharge monitoring

report. I further certify that this facility is implementing the Toxic Organic Management Plan submitted to the Control Authority.”

- b. The User is required to sign and submit the following certification statement with all monitoring reports:

“I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are signification penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.”

All reports required by this Permit must be submitted to the Malaga County Water District at the following address:

Malaga County Water District
Environmental Compliance Inspector
3580 S. Frank Street
Fresno, CA 93725

6. Annual Publication

As required by the Act, the District’s Pretreatment Program, and the Malaga Code, a list of all industries which were in significant noncompliance of applicable federal pretreatment standards or other pretreatment requirements during the twelve (12) previous months shall be annually published by the District in the largest daily newspaper within its service area. Accordingly, the User is apprised that noncompliance with this permit may lead to an enforcement action and may result in publication of its name in an appropriate newspaper. For purposes of this provision, significant noncompliance is defined under 40 CFR 403.8 (f)(2)(vii).

Part 4: Other Conditions

1. Automatic Re-Sampling

If the results of the User’s wastewater analysis indicate that a violation of this Permit has occurred, the User must:

- a. Inform the Malaga County Water District of the violation within 24 hours;
- b. Repeat sampling and pollutant analysis and submit, in writing, the results of this second analysis within 30 days of becoming aware if the first violation;

- c. Continue repeat sampling until it is determined that the violation has ceased.

Pursuant to the provisions of the Malaga Code, the District shall have the ability to sample and analyze any time the District deems appropriate.

2. Accidental Discharge and Reporting

The user must notify the Malaga County Water District immediately upon the occurrence of spills, including, but not limited to, accidental discharges, discharges of a nonroutine, episodic nature, a noncustomary batch discharge, slug loads or slug discharges, that might potential problems for the POTW, or spills that might enter the public sewer. During normal business hours the Malaga County Water District should be notified by telephone at 559-485-7353. The notification must include location of discharge; date and time of discharge; type of waste, including concentration and volume; and corrective actions taken. The User's notification of accidental release in accordance with this section does not relieve it of other reporting requirements that arise under local, state, or federal laws.

Within 5 days following an accidental discharge, the User shall submit to the District Malaga County Water a detailed written report. The report must specify:

- a. Description and cause of the upset, slug load, or accidental discharge; the cause thereof; and the impact on the User's compliance status. The description should also include location of discharge and type, concentration, and volume of waste.
- b. Duration of noncompliance, including exact dates and times of noncompliance and, if the noncompliance is continuing, the time by which compliance is reasonably expected to occur.
- c. All steps taken or to be taken to reduce, eliminate, and/or prevent recurrence of such an upset, slug load, accidental discharge, or other conditions of noncompliance.

3. Pretreatment Systems

- a. The District may require Users to install and operate at their own expense the following pretreatment systems:
 - 1) A grease interceptor approved by the District which (a) prevents excessive grease and oil from entering the sewage system (b) provides at least 1250 gallons storage capacity, at least two compartments, baffles to retain floatable greases and oils and a sampling port and (c) excludes any Sanitary Wastewater from entering the interceptor.
 - 2) A grit interceptor approved by the District which (a) prevents sand and settleable grit from entering the sewage system (b) provides a 30-minute

detention time based on peak wastewater rate, a minimum capacity of 500 gallons, at least two compartments, baffles to reduce wastewater velocity sufficiently to settle sand and grit and (c) excludes any sanitary wastewater from entering the interceptor.

- b. Use of the following pretreatment systems shall not violate any portion of the Malaga Code nor inhibit wastewater treatment systems:
 - 1) To operate and maintain any garbage grinders in a manner which prevents discharge of wastewater in violation of the Malaga Code.
 - 2) To operate and maintain any water softening units in strict accordance with manufacturer's instructions and in a manner to minimize salts discharge into the sewage system.

4. Removed Substances

- a. Solids, sludge, filter backwash or other pollutants removed from wastewater in the course of pretreatment or the control of wastewater must be disposed of in accordance with section 405 of the Clean Water Act and Subtitles C and D of the Resource Conservation and recovery Act.
- b. Removed substances shall not be allowed to enter the sewer collection system, nor any storm drain, nor any outfall or drain which leads to a storm water collection system or a water catchment system intended for ground water recharge purposes.
- c. Removed substances shall not be retained on the property of the User and shall be properly disposed of as indicated above.

5. Slug Discharge Control Requirements

The User is required to submit and implement a slug discharge control plan if directed by the District. Determination of the requirement for a slug discharge plan shall be made during an initial facility inspection by the District. If it is determined that due to batch discharge or plug flow the WWTF could be hydraulically or biologically overloaded, a slug discharge plan shall be developed and implemented. The slug discharge control plan must include, at a minimum, the following:

- a. Description of discharge practices, including non-routine batch discharges.
- b. Description of stored chemicals.
- c. Procedures for immediately notifying the Malaga County Water District of slug discharges, including any discharge that would violate prohibition under 40CFR 403.5(b), with procedures for follow-up written notification within five days.

- d. Procedure to limit any impact on maximum allowable head works loading of the WWTF.
- e. Procedures to prevent adverse impact from accidental spills, including inspection and maintenance of storage areas, handling and transfer of materials, loading and unloading operations, control of plant site runoff, worker training, building of containment structures or equipment, measures for containing toxic organic pollutants, and measures and equipment for emergency response.

6. Compliance Schedule

Pursuant to the Enforcement Response Plan, the following levels of escalating enforcement and administrative citations have been established:

- a. Warning Notice, and any associated Notices of Non-Compliance;
- b. Notice of Violation, and any associated Notices of Non-Compliance;
- c. Consent Order, and any associated Notices of Non-Compliance;
- d. Compliance Order, and any associated Notices of Non-Compliance; and
- e. Show Cause Order, and any associated Notices of Non-Compliance.

In the event of any notice or order for compliance, a schedule for compliance shall be included. The User is responsible to meet the schedule for compliance, and shall be penalized according to the provisions of the Enforcement response Plan for failing to do so.

No later than 14 days following the date of the notice or order, the user must submit to the Malaga County Water District a written report including, at a minimum, whether it complied with the increment of progress to be met on such date and, if not, the date on which it expects to comply with the increment of progress, the reasons for delay, and the steps being taken to return the project to the schedule established.

7. Potential Non-Compliance

The User must immediately inform the District in the event of the potential for non-compliance for any known reason. Failure to report the potential for non-compliance may result in a harsher penalty for a non-compliance event that was known to pre-exist.

Part 5: Special Conditions for Food Service Establishments (FSE's)

1. FSE's shall comply with all other portions of this permit and the Malaga Code.
2. Grinders shall not be used to mulch solid waste for disposal in the sewer system. Ordinary sink disposers are allowed so long as food solids are wiped from cookware and dishes before washing.
3. A grease trap is required to remove yellow grease and grease solids from wastewater. FSE's that do not produce oil and grease waste may apply for exception in writing. If approved by the District, this requirement can be waived but only by written permission from the District.
4. Grease traps shall be kept in operation at all times and cleaned regularly as required to prevent oil and grease from entering the sewer collection system.
5. Wastewater shall not bypass a grease trap when one is required.
6. Written records of oil and grease hauling shall be maintained by the FSE for inspection by the District at any time.
7. FSE's shall comply with the provisions of the Fats, Oil, and Grease (FOG) control plan contained in the Malaga Code.

Part 6: Special Conditions for Truck Washes

1. Truck washes shall comply with all other portions of this permit and the Malaga Code.
2. Wastewater from the truck wash facility shall not cause any of the following effects to the sewer collection system or have the following characteristics:
 - a. Build-up of solids such that wastewater flows slower than 2 feet per second in the collection system;
 - b. Foaming of wastewater;
 - c. Discoloration of wastewater;
 - d. A pH of less than 6.0 or greater than 9.0 at any time;
 - e. An electro-conductivity reading in excess of 950 u-ohm/cm at any time;
3. Solids shall not be washed from a truck tank that cannot pass through a size 20 mesh per square inch filter directly into the sewer collection system.

4. Truck tanks must be emptied prior to washing with no noticeable residue of prior contents.
5. Truck washes shall maintain a manifest of tanker trucks and inter-modal tank containers washed that includes the following information at a minimum:
 - a. Date and time the truck was washed
 - b. Contents of the tank prior to washing
6. Reserved for truck washes that may be subject to categorical limits:

Truck Washes involved in cleaning tank trucks and intermodal tank containers used to transport chemical or petroleum cargos may be subject to EPA categorical pretreatment standards and classified into the Transportation Equipment Cleaning (TEC) category. If identified as a TEC, the User may be required to monitor, sample, and report the following pollutants:

<u>a. 40 CFR 442.11:</u>	<u>Maximum Daily Limit</u>	<u>Max. Monthly Ave</u>
BOD	61 mg/L	22 mg/L
TSS	58 mg/L	26 mg/L
Oil and grease (HEM)	36 mg/L	16 mg/L
Copper	0.84 mg/L	-
Mercury	0.0031	-
pH	6-9	6-9
Non-polar material (SGT-HEM)	26	-

b. EPA Categorical Pretreatment Standard Pollutants:

- 1) Fluoranthene
- 2) Phenanthrene
- 3) Cadmium
- 4) Chromium Total
- 5) Copper
- 6) Lead
- 7) Non-Polar O&G
- 8) Mercury
- 9) Nickel
- 10) Zinc

c. Other pollutants (CAM metals):

- 1) Antimony
- 2) Arsenic
- 3) Barium
- 4) Beryllium
- 5) Cadmium

- 6) Chromium
- 7) Cobalt
- 8) Copper
- 9) Lead
- 10)Mercury
- 11)Molybdenum
- 12)Nickel
- 13)Selenium
- 14)Silver
- 15)Thallium
- 16)Vanadium
- 17)Zinc

7. Truck washes shall immediately report to the District any event that causes wastewater discharge to show the following characteristics:
 - a. Foaming;
 - b. Discoloration;
 - c. Noxious fumes;
 - d. Oil sheen;
 - e. Build-up of solids that flocculate or coagulate;
 - f. Build-up of solids that reduce flow;

8. Truck Washes shall provide written monthly reports to the District that contain the following information:
 - a. Date and time tanker trucks and intermodal tank containers were washed;
 - b. Contents of tanker trucks and intermodal tank containers that were washed;
 - c. Analysis of any wastewater discharge samples that were tested, whether required or not;
 - d. Reports of on-line metering equipment;
 - e. All incidences of item 7 above.

9. On-line monitoring equipment shall monitor pH and EC whenever wastewater is being discharged.

Part 7: Best Management Practices

Best management practices shall be adhered to according to the industry standards of the individual permit holder.

Attachment D: Letter of Final Warning to Truck Washes



MALAGA COUNTY WATER DISTRICT

3580 SOUTH FRANK STREET FRESNO, CALIFORNIA 93725
PHONE: 559-485-7353 FAX: 559-485-7319

BOARD OF DIRECTORS

CHARLES E. GARABEDIAN JR. PRESIDENT SALVADOR CERRILLO VICE-PRESIDENT IRMA CASTANEDA DIRECTOR FRANK CERRILLO JR. DIRECTOR CARLOS TOVAR JR. DIRECTOR

James D. Anderson, General Manager

10 October 2014

Final Warning to All Truck Washes

Gentlemen,

Please take a few minutes to read the attached e-mail I received this morning from my Lead Operator at the Wastewater Treatment Facility, and look at the pictures included.

CONSIDER THIS LETTER TO BE YOUR FINAL WARNING that infractions of your industrial user discharge permit will not be tolerated and severe penalties will be imposed. We are seeing repeated cases of heavy discoloration and foaming in the influent to the wastewater treatment facility. Detergents in large quantity severely disrupt the treatment plant process by depleting oxygen in the aeration basins that microbes depend on to survive and breakdown biological nutrients that are the source of pollution. These detergents are passing through the treatment system process and are being discharged into the environment through ground water percolation.

As you know from our recent visits, environmental compliance is a hot topic in Malaga County Water District. The Malaga Code and the Pretreatment Program have been significantly revised and are available for public review on our website www.malagacwd.org. There is a public workshop on October 28 at 7pm that you should attend to become better informed about these revisions.

The foaming issue discovered late yesterday afternoon is being investigated. ALL such issues are investigated to identify guilty parties for enforcement action. We are required by law to self-report WWTF effluent violations to the Central Valley Regional Water Quality Control Board within 24 hours of a known violation. **Industrial dischargers who violate any condition of their permit** can be fined up to \$25,000 per day for each violation and subject to a cease and desist order, injunction, or revocation of their discharge permit. MCWD will enforce these actions.

James D. Anderson
General Manager and Chief Plant Operator of the WWTF

CC: Wholesale Equipment; Fifth Wheel Truck Wash; Penske; Best Tours and Travel; Fresno Equipment; Fresno Truck Center; Coca-Cola; Imperial Truck Wash; Conway Freight; Fresno Truck Wash; Moga Truck Wash; Peterbuilt; Paul Evert's RV

Attachment E: Enforcement Action Against Fifth Wheel Truck Wash



Malaga County Water District

ADMINISTRATIVE CITATION

Citation No. 2014-001

For Violation(s) of The Malaga Ordinance Code (MC)

Name: Last Fifth Wheel Truck Wash	First	Middle
Address: 3767 S. Golden State Blvd		
City: Fresno Ca 93725	State	Zip
Phone:	Driver's License or Other Identification:	

Location of Violation:
Street Address 3767 S Golden State Blvd, Fresno Ca 93725

Date of Violation: 9-24-2014 / / File #

An Enforcement Officer of the Malaga County Water District Observed the following Violation(s):

VIOLATION(S):	DESCRIPTION:
1.MC 3.05.030	Permit Condition Part 2 §2 Exceed EC Limit
2.MC 3.05.030	Permit Condition Part 2 §2 Exceed BOD Limit
3.MC 3.05.030	Permit Condition Part 4 §3(a) Failure to Report Slug Discharge <i>See attached lab test.</i>
(MC Section)	Each of the listed violations has been determined to be an automatic violation (MC 1.09.050 (B)(2) and (4).). \$1,000.00 Per Day administrative Penalty X 3 Violations \$3,000.00 Total Administrative Penalty

I Certify that the foregoing is true and correct and written on the date shown below:

James D. Anderson / [Signature]
Print Name of Issuer Signature

Date Issued 10 / 10 / 2014 Time Issued _____

SIGNATURE OF PARTY TO WHOM CITATION ISSUED, IF AVAILABLE (Without Admitting responsibility, I acknowledge receipt of service of this citation)

X _____
Citation is valid with or without signature

CALL (559) 485-7375 IF YOU HAVE ANY QUESTIONS.

The Total Administrative Penalty of \$3,000.00 is immediately due and payable within 30 calendar days of the "Date Issued" listed above.

WARNING: Enforcement actions in addition to Administrative Penalties may result from your failure to correct this violation are requested. Administrative abatement, civil or criminal penalties, civil injunction, or any other remedy available at law may be utilized to enforce correction of this violation(s).

Make checks payable to Malaga County Water District and mail or deliver payment to:
Malaga County Water District 3580 S. Frank Street, Fresno, CA, 93725

IMPORTANT – PLEASE READ:

Order:

You are ordered to remove and/or correct the Malaga County Water District Code (hereinafter the “MC”) Code violation(s) listed on the front of this Administrative Citation by the date specified. Failure to comply may result in additional fees and/or penalties.

Payment Information:

The amount of each administrative fine being imposed upon you for violation(s) of the MC is listed on the front of this Administrative Citation be paid to the District within thirty (30) days from the date of this Administrative Citation, or the date the fine becomes due as listed on the citation unless you request an appeal hearing. If the due date falls on a Saturday, Sunday or District holiday, then the deadline for paying the fine shall be extended to the next regular business day. You may pay and deliver the administrative fine to the District by mail or in person at the District Office, District. Failure to pay the fine by the due date will result in the imposition of a ten percent (10%) late fee in addition to any other fees and charges established by the District Council.

The payment of a fine or fines shall not excuse the failure to correct the violation(s) nor shall it bar further enforcement action by the District.

Appeal Hearing Process:

You have the right to contest this Administrative Citation at a public hearing before a hearing officer. To request a hearing, you must submit a Notice of Appeal to the District General Manager at 3580 S. Frank Street, Fresno, CA, 93725, in writing or on a form which is available at the District office **on or before the due date of the administrative fine**. The Notice of Appeal must identify the citation being appealed, specify the basis for the appeal, and provide an address where further notices may be delivered to the responsible party by first-class mail. The Notice of Appeal must be accompanied by an advance deposit of the total penalty amount or an advance deposit hardship waiver (explained below) which is also available at the District office. You will be notified of the date and time set for your hearing. Failure to attend the Administrative Hearing shall constitute a waiver of rights to an Administrative Hearing and will constitute a failure to exhaust your administrative remedies.

Advance Deposit Hardship Waiver:

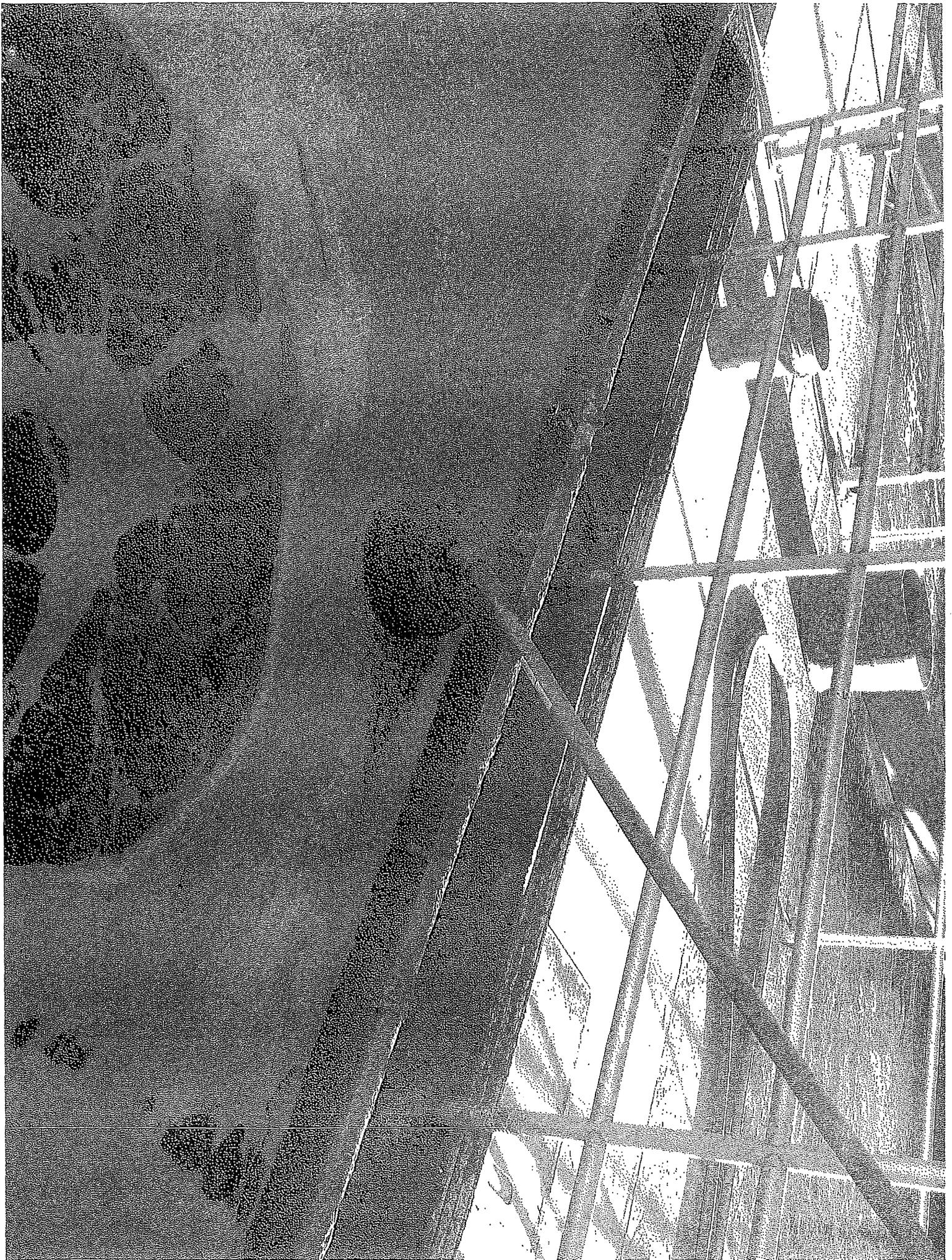
If you intend to request a hearing to contest this violation or that you are the responsible party and you are financially unable to make the advance deposit of the fine as required, you may file a request for an advance deposit hardship waiver. The waiver application form can be obtained from the District office, 3580 S. Frank Street, Fresno, CA, 93725. The decision whether to waive the advance deposit requirement in whole or in part is made by the District General Manager or his/her designee.

Failure to Pay the Administrative Fine:

The failure of any person to pay the fine assessed by the Administrative Citation by the due date will result in additional fees and/or penalties in an amounts to be determined by resolution of the District Board of Directors and may result in a claim to be filed with the small claims or other appropriate court or any other legal remedy to collect such money owed, including but not limited to, contracting for collection, or the imposition of an assessment lien on your property to collect such money owed. The District has the authority to collect all costs, including reasonable attorney’s fees, associated with filing such actions for collection of money owed.

Right to Judicial Review:

Any person aggrieved by an Administrative Decision of a hearing officer on an Administrative Citation may obtain review of the Administrative Decision by filing a petition for review with the Superior Court of California, County of Fresno, in accordance with the time line and provisions set forth in California Government Code section 53069.4.





MALAGA COUNTY WATER DISTRICT

3580 S. Frank Street
Fresno, 93725

Invoice

Date Invoice #
11/13/2014 2

Bill To

SJZ Truck Stop, LLC
Dbas: Fifth Wheel Trk Stop
3767 S. Golden State Blvd.
Fresno, CA 93725
Attn: Steve Zabarsky

P.O. No. Terms Project

Quantity	Description	Rate	Amount
1	61015-Sewer Surcharges	2,241.62	2,241.62
1	79250-Pre-Tmnt Lab Testing	300.00	300.00
1	62100-Pre-Tmt Inspection	144.17	144.17
1	41500-Admin Citation Fee	3,000.00	3,000.00



2527 Fresno Street
 Fresno, CA 93721
 (559) 268-7021 Phone
 (559) 268-0740 Fax

California ELAP Certificate #1371

Malaga County Water District
 3580 S. Frank
 Fresno CA, 93725

Project: Malaga Sewer Plant
 Project Number: Analytical Services
 Project Manager: Burt Siverling

Reported:
 10/14/2014

Analytical Report for Work Order AI24064

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Fifth Wheel		Sampled: 09/24/14 10:53 AI24064-01 (Waste Water)									
Turbidity		220	0.10	0.020	NTU	1	U4I2506	MVY	9/26/14 10:53	9/26/14 10:53	EPA 180.1
Total Suspended Solids		950	100	28	mg/L	25	U4I2602	MVY	9/26/14 7:57	9/26/14 12:35	SM 2540D
Color (Apparent)		6000	200		Color Units	200	U4I2506	MVY	9/26/14 10:53	9/26/14 10:53	SM2120B
Specific Conductance (EC)		4800	1.0	0.26	µS/cm	1	U4I2619	CMG	9/26/14 17:44	9/26/14 20:21	SM2510B
Biochemical Oxygen Demand		9300	3000	3000	mg/L	3000	U4I2521	CMG	9/25/14 12:56	9/30/14 14:03	SM5210B
Fifth Wheel		Sampled: 09/24/14 15:13 AI24064-02 (Waste Water)									
Turbidity		330	0.10	0.020	NTU	1	U4I2506	MVY	9/26/14 10:55	9/26/14 10:55	EPA 180.1
Total Suspended Solids		350	40	11	mg/L	10	U4I2602	MVY	9/26/14 7:57	9/26/14 12:35	SM 2540D
Color (Apparent)		1000	200		Color Units	200	U4I2506	MVY	9/26/14 10:55	9/26/14 10:55	SM2120B
Specific Conductance (EC)		1500	1.0	0.26	µS/cm	1	U4I2619	CMG	9/26/14 17:44	9/26/14 20:23	SM2510B
Biochemical Oxygen Demand		880	300	300	mg/L	300	U4I2521	CMG	9/25/14 12:56	9/30/14 14:03	SM5210B

Notes and Definitions

- J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag). Same as DNQ - Detected, but Not Quantified.
 - ug/L micrograms per liter (parts per billion concentration units)
 - mg/L milligrams per liter (parts per million concentration units)
 - mg/kg milligrams per kilogram (parts per million concentration units)
 - ND Analyte NOT DETECTED at or above the reporting limit
 - RPD Relative Percent Difference
- Analysis of pH, filtration, and residual chlorine is to take place immediately after sampling in the field.
 If the test was performed in the laboratory, the hold time was exceeded. (for aqueous matrices only)

MALAGA COUNTY WATER DISTRICT
 3580 South Frank Street
 Fresno, California 93725

SURCHARGE FOR HIGH-STRENGTH WASTEWATER

Service Location: FIFTH WHEEL Date: 10-16-14

Sample Date: 4-24-14 ECsw = EC Source Water: 310 Meter Size: 2"
 Qm = Flow Gal/Month = 162,814 Qd = Flow Gal/Day = 8140 (20 D/mo)

Wastewater Laboratory Analysis

1. B.O.D. (5 day), mg/L	<u>9300</u>
2. Total Suspended Solids, mg/L	<u>950</u>
3. Electro-Conductivity, μ mhos/cm	<u>4800</u>
4. Oil & Grease, mg/L	<u>—</u>
5. MBAS, mg/L	<u>—</u>

Surcharge Basis:

- \$ 6.56 per 100 pounds of BOD in excess of 300 parts per million (mg/L)
- \$ 7.81 per 100 pounds of TSS in excess of 300 parts per million (mg/L)
- Cost of equivalent amount of water to dilute the EC to 950 μ mhos/cm (Table 1)
- ***** per 100 pounds Oil and Grease in excess ***** parts per million (mg/L)
- ***** per 100 pounds MBAS in excess ***** parts per million (mg/L)

Surcharge Calculations:

- $\$/100 \text{ Lbs} = \$/100 \text{ Lbs} \times 8.345 \times Q_m / 1,000,000 \times (\text{mg/L} - \text{allowable mg/L})$
- Cost of water for EC dilution worksheet Table 1.

$$\text{BOD: } \frac{\$6.56}{100 \text{ Lb}} \times \frac{8.345}{1,000,000} \times \frac{162,814}{1,000,000} \times (9300 - 300) = \underline{\$ 802.16}$$

$$\text{TSS: } \frac{\$7.81}{100 \text{ Lb}} \times \frac{8.345}{1,000,000} \times \frac{162,814}{1,000,000} \times (950 - 300) = \underline{68.97}$$

EC: Worksheet Table 1 1370.49

O&G: —

MBAS: —

Surcharge Fees: \$ 2241.62

Lab Testing Cost: \$ 300.00

Inspection Fee: \$ 144.17

Total: \$ 2685.79

WORKSHEET COST OF EQUIVALENT AMOUNT OF WATER TO DILUTE EC

Table 1

METER SIZE	CUBIC FEET	BASE LINE	\$ 1.13 / 100 CF
3/4"	1,800 CF	19.91	
1"	3,100 CF	33.74	
1-1/4"	4,300 CF	47.82	
1-1/2"	5,900 CF	65.78	
2"	9,500 CF	105.57	
3"	18,000 CF	199.02	
4"	30,100 CF	332.54	

$$Vw = Qd \times (EC - 950) / (1000 - EC_{sw}) = \text{GPD} \frac{8140 \mid (4800 - 950)}{(1000 - 310)} = \frac{8140 \mid 3850}{690} = 45,418 \text{ gal}$$

$$Vw = \text{GPD} / 7.48 \text{ Gal/CF} = \text{CF} = \frac{45,418 \text{ gal}}{7.48 \text{ gal/CF}} = 6072 \text{ CF}$$

$$Vw = \text{CF} \times \# \text{ business operating days/month} = \text{CF/month (CF/m)} = \frac{6072 \mid 20}{1} = 121,440 \text{ CF}$$

$$V \text{ Cost} = (\text{CF/m} - \text{Meter Size CF}) \times \$1.13/100 \text{ CF} = \frac{121,440 - 9500 \mid 1.13}{100 \text{ CF}} = \$1264.92$$

Base Line (meter size CF) = \$ 105.57

V Cost = \$ 1264.92

Total = \$ 1370.49



MALAGA COUNTY WATER DISTRICT

3580 SOUTH FRANK STREET - FRESNO, CALIFORNIA 93725
PHONE: 559-485-7353 - FAX: 559-485-7319

BOARD OF DIRECTORS

CHARLES E. GARABEDIAN JR. SALVADOR CERRILLO IRMA CASTANEDA FRANK CERRILLO JR. CARLOS TOVAR JR.
PRESIDENT VICE-PRESIDENT DIRECTOR DIRECTOR DIRECTOR

JAMES ANDERSON- GENERAL MANAGER

13 November 2014

SJZ Truck Stop, LLC
DbA Fifth Wheel Truck Stop
3767 South Golden State Blvd.
Fresno, California 93725

Steven Zabarsky
2438 Rall Avenue
Clovis, California 93611

Re: September 24, 2014, Discharge Violation

Dear Sirs:

On September 24, 2014, the Malaga County Water District Wastewater Treatment Facility (WWTF) detected a SLUG discharge that caused excessive foaming. Excess foaming caused by heavy concentrations of detergents discharged into the sewer collection system have a serious impact on WWTF processes by causing severe depletion of dissolved oxygen in the aeration basins. In an investigation it was determined that your facility located at 3767 South Golden State Blvd. (the "Facility") was the source. Samples were taken from your facilities' discharge which indicated that your Facility was discharging effluent which contained the following constituents:

Biochemical Oxygen Demand ("BOD") of 9,300mg/L
Total Suspended Solids ("TSS") of 950mg/L
Electro-Conductivity ("EC") of 4,800 μ mhos/cm

Your Industrial User Wastewater Discharge Permit ("Permit") limits for these constituents are as follows:

BOD 1,000mg/L, with surcharge for BOD in excess of 300mg/L
TSS 1,000mg/L, with surcharge above 270mg/L
EC 950 μ mhos/cm, with surcharge for dilution to achieve source water + 500 u-ohm/cm

Based on the independent laboratory analysis of your Facilities discharge, the following surcharges and fees are assessed for exceeding these limits:

BOD Surcharge	\$ 802.16
TSS Surcharge	\$ 68.97
EC Surcharge	\$1,370.49
Lab Testing fees	\$ 300.00
Inspection fee	<u>\$ 144.17</u>
Total	\$2,685.79

Additionally, you have been issued an Administrative Citation for three violations of Malaga County Water District's Ordinance Code Section 3.05.030:

1. Exceeding your Permit EC limit;
2. Exceeding your Permit BOD limit
3. Failing to report the SLUG discharge to the District as required by your permit.

The fine for each of these violations is \$1,000.00 for a total Administrative fine of \$3,000.00.

Furthermore, it has come to the attention of the District that the user who was issued the Permit has changed ownership and that the District was not notified of this change of ownership and/or the Permit is not issued to the current user as required by the Malaga County Ordinance Code and the Permit. Failing to notify the District of a change of ownership is grounds for Permit termination. The District will allow you to continue operating under the terms and conditions of the existing Permit as long as you comply with the Compliance Order which is enclosed along with an application for a Non-Residential Wastewater Discharge Permit. As set forth in the Compliance Order, you will not be permitted to operate with the current Permit after December 31, 2014. Therefore, it is imperative that you return the application for service along with payment of all fees and charges as soon as possible to ensure a new Non-Residential Wastewater Discharge Permit is issued and effective on or before January 1, 2015. If you fail to do so, you will not be permitted to discharge into the District's sewer system. If you believe this to be in error please contact the District. At the time you submit a completed application, you must also pay all fees, charges, and deposits due. The current fee for a new Class 1 Permit is \$1,923.20 and the renewal fee for a Class 1 Permit is \$1,262.78. The amount of deposits, if necessary, will be determined on a case by case basis and may be required at any time, as determined necessary, during the application review process.

As a result of the violations set forth in the Administrative Citation, your facility will be inspected at least once per month to ensure compliance with your Permit. The fee for each inspection is \$144.17 in addition to any actual laboratory or other costs incurred by The District. When the inspector arrives, a person with knowledge of your Facilities operations and

wastewater discharge facilities and procedures should be available during the inspection and must provide, upon request, access by the Environmental Compliance Inspector to all wastewater discharge and pretreatment facilities and all records and documents related thereto including, but limited to, records of trucks washed, monitoring and reporting records, and manifests of hauled wastes removed from the wastewater by your pretreatment facilities.

If you have any comments or questions with regard to the forgoing please do not hesitate to contact me at the District office.

Very truly yours,

James Anderson
General Manager
MALAGA COUNTY WATER DISTRICT

Attachments:

Invoice for \$5,685.79 dated 13 November 2014
Compliance Order dated 13 November 2014
Administrative Citation dated 13 November 2014
Surcharge Calculation Worksheet
MTA Lab Report
Photos of WWTF foaming



COMPLIANCE ORDER

To: SJZ Truck Stop, LLC and/or SJZ Truck Stop, LLC, Dba Fifth Wheel Truck Wash and/or Fifth Wheel Truck Wash and/or Steven Zabarsky 3767 South Golden State Blvd. Fresno, California 93725

Fresno County Assessor Parcel No. 330-110-915

Pursuant to Malaga County Water District Ordinance Code Section 1.07.020(B)(6) and the Malaga County Water District Enforcement Response Plan Section V(B), the Malaga County Water District hereby issues the following Compliance Order:

1. Prepare and submit an application for a permit to discharge non-residential wastewater and pay all necessary and required fees on or before 1 December 2014.
2. Prepare and submit all follow up documents requested by the District necessary for the processing of the application for permit to discharge non-residential wastewater and pay all fees and/or deposits requested by the District.
3. Your current non-residential wastewater discharge permit will expire upon the issuance of a new permit or December 31, 2014, which ever date comes first.

FURTHER ENFORCEMENT ACTIONS

Failure To Comply With This Order.

Failure to comply with this Order may result in further enforcement actions pursuant to the District's Enforcement Response Plan including, but not limited to, revocation of your current discharge permit.

Non-Exclusive.

Nothing contained in this Compliance Order is meant to or shall be construed to limit or prohibit the District from using any other available enforcement procedure, including, but not limited to, the issuance of Administrative Citations with a penalty of up to \$1,000.00 violation, per day, an Administrative Complaint with a penalty of up to \$25,000.00 per violation, per day, issuance of an Order to Show Cause, issuance of further Compliance Orders, Cease and Desist Orders, or water supply severance.

If you have any questions regarding this matter please contact the District General Manager, James D. Anderson, at (559) 485-7353.

SO ORDERED

Date: _____

James D. Anderson, General Manager
Malaga County Water District

1 Malaga County Water District
3580 S. Frank Street
2 Fresno, CA 93725
Telephone: (559) 485-7353
3
4
5

6 **MALAGA COUNTY WATER DISTRICT**

7
8
9 In Re:

OSC NO. 2014-01

10 SJZ TRUCK STOP, LLC, and/or SJZ
11 TRUCK STOP, LLC, dba FIFTH
12 WHEEL TRUCK WASH and/or FIFTH
13 WHEEL TRUCK WASH and/or
14 STEVEN ZABARSKY and/or any other
person(s) operating the truck wash
business located at 3767 S. Golden
State Boulevard, Fresno, California
93725.

ORDER TO SHOW CAUSE HEARING

Date: December 29, 2014

Time: 10:00 a.m.

Location: Malaga County Water District
3580 S. Frank Street
Fresno, CA 93725

15
16
17 NOTICE IS HEREBY GIVEN, that an order to show cause hearing will be conducted
18 on December 29, 2014, at the Malaga County Water District office located at 3580 S.
19 Frank Street, Fresno, California 93725, in the Boardroom, at 10:00 a.m. or as soon
20 thereafter as the matter may be heard.

21 NOTICE IS FURTHER GIVEN, that SJZ TRUCK STOP, LLC, and/or SJZ TRUCK
22 STOP, LLC, dba FIFTH WHEEL TRUCK WASH and/or FIFTH WHEEL TRUCK WASH
23 and/or STEVEN ZABARSKY (hereinafter referred to individually and collectively as
24 "Parties"), are ordered to appear and show cause why the Individual Wastewater
25 Discharge Permit for the business (Truck Wash) located at 3767 S. Golden State
26 Boulevard, Fresno, California 93725, APN No. 330-110-915 ("Facility") should not be
27 revoked, a cease and desist order prohibiting discharge into the District's publicly owned
28 wastewater treatment system be issued, and an order that water service to the property

1 be severed should not be issued.

2 The basis for the proposed revocation of the Individual Wastewater Discharge
3 Permit, issuance of a cease and desist order prohibiting discharge into the District's
4 sewerage system, and severance of water service to the Facility are as follows:

5 1. On September 24, 2014, the Facility discharged a slug load into the District's
6 sewerage system with levels of bio-oxygen demand ("BOD"), total suspended solids
7 ("TSS") and electro-conductivity ("EC") far in excess of the Facility's Individual Wastewater
8 Discharge Permit limits;

9 2. On or about October 31, 2014, the District, through its General Manager, issued
10 a notice of the September 24, 2014, discharge violation to SJZ Truck Stop, LLC, dba Fifth
11 Wheel Truck Stop and Steven Zabarsky, as agent for service of process, notifying the
12 aforementioned that a BOD surcharge, TSS surcharge, EC surcharge, and laboratory and
13 inspection fees were being charged to the Facility for the discharge violation; and

14 3. On or about October 31, 2014, the District issued an administrative citation for
15 violating the permit EC limit, BOD limit, and failing to report the slug discharge as required
16 by the permit in the amount of \$3,000 (\$1,000 for each violation);

17 4. That the ownership of the Facility has changed and the owner of the Facility
18 failed to notify the District of the change of ownership as required by the permit. Change
19 of ownership of an Individual Wastewater Discharge Permit without notifying the District
20 is grounds for revocation under the terms and conditions of said permit;

21 5. On or about October 31, 2014, the District, through its General Manager, issued
22 a compliance order to SJZ Truck Stop, LLC, and/or SJZ Truck Stop, LLC, dba Fifth Wheel
23 Truck Wash and/or Fifth Wheel Truck Wash and/or Steven Zabarsky, ordering the Parties
24 to, among other things, prepare and submit an application for a permit to discharge non-
25 residential wastewater and to pay all necessary and required fees for said application on
26 or before November 15, 2014; prepare and submit all follow-up documents requested by
27 the District necessary for the processing of the application for a permit to discharge non-
28 residential wastewater and pay all fees and/or deposits requested by the District; and gave

1 the Parties notice that the current Non-residential Wastewater Discharge Permit would
2 expire upon the issuance of a new permit or December 31, 2014, whichever date came
3 first;

4 6. The Parties have failed to contact the District regarding the slug discharge,
5 administrative citation, or compliance order;

6 7. The Parties have failed to comply with the compliance order in that they have
7 failed to submit an application for a Non-residential Individual Wastewater Discharge
8 Permit; and

9 8. The Parties failed to pay the administrative citation.

10 This Order is issued pursuant to section 1.07.020 of the District's Ordinance Code
11 and the District's Enforcement Response Plan. The Order to Show Cause hearing will be
12 heard by the District's General Manager, James Anderson. At the time of the hearing, you
13 will be permitted to state orally, or in writing, the reasons why the District should not revoke
14 the Individual Wastewater Discharge Permit, issue a cease and desist order to stop
15 discharging into the District's sewerage system, and/or sever the water service to the
16 Facility and present any relevant evidence you believe supports your position. At the close
17 of the hearing, the General Manager, serving as the hearing officer, shall issue a written
18 Statement of Decision. The Statement of Decision may be issued immediately after the
19 hearing or in writing within thirty (30) days after the hearing. The statement of decision of
20 the hearing office/General Manager shall be final.

21 SO ORDERED.

22
23 MALAGA COUNTY WATER DISTRICT

24
25 Dated: December ____, 2014

26 By: _____
27 James Anderson

Attachment F: Lab Analysis of Green Tec Sample



2527 Fresno Street
 Fresno, CA 93721
 (559) 268-7021 Phone
 (559) 268-0740 Fax

California ELAP Certificate #1371

Green Tec
 3396 East Malaga Avenue
 Fresno CA, 93725

Project: Analytical Services
 Project Number: Malaga County Water District
 Project Manager: Thomas Siphonghsay

Reported:
 11/26/14 15:59

Green Tec

AK10056-01 (Waste Water)

Sampled:11/10/14 13:57

Analyte	Notes	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
---------	-------	--------	-----------------	-------	----------	-------	----------	----------	--------

Inorganics

Specific Conductance (EC)		1500	1.0	µS/cm	1	U4K1020	11/10/14	11/10/14	SM2510B
Methylene Blue Active Substances		ND	0.25	mg/L	1	U4K1114	11/11/14	11/11/14	SM5540C

Notes and Definitions

- ug/L micrograms per liter (parts per billion concentration units)
 - mg/kg milligrams per kilogram (parts per million concentration units)
 - mg/L milligrams per Liter (parts per million concentration units)
 - ND Analyte NOT DETECTED at or above the reporting limit
 - RPD Relative Percent Difference
- Analysis of pH, filtration, and residual chlorine is to take place immediately after sampling in the field.
 If the test was performed in the laboratory, the hold time was exceeded.

Attachment G: Statement Concerning Categorical Dischargers



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MEMORANDUM

To: Michael Taylor, PE
From: Brian Shoener, PE *BGS*
Subject: Malaga CWD – Review of Proposed Air Products Discharge Limits
Date: August 8, 2014

A review was performed of the attached spreadsheet that shows proposed limits on the discharge from Air Products (an industrial user) to the Malaga wastewater treatment plant. An indirect discharger (like Air Products) is an industrial facility that discharges non-sanitary waste to a publicly owned treatment works (POTW). A direct discharger is an industrial facility that discharges directly to a surface water such as a river, stream, or canal. Direct dischargers are regulated by the RWQCB via a WDR or NPDES permit. Indirect dischargers are regulated by a POTW via an industrial user permit. Air Products is subject to regulation by an industrial user permit.

There are several items presented in the attached spreadsheet that are being mistakenly applied to an indirect discharger like Air Products:

1. **Column labeled CMC.** CMC is the Criterion Maximum Concentration. CMC is a numerical criteria set by the USEPA or the State to protect aquatic life. CMC limitations apply only to direct dischargers. This means that CMC limitations would apply to industrial facilities that discharge to a surface water that contains aquatic life. CMC limitations do not apply to indirect dischargers like Air Products since they discharge into a sewer collection system. The water in the sewer collection system is not subject to limitations to protect aquatic life in the sewer. The CMC limitations in the attached spreadsheet do not apply to Air Products.
2. **Column labeled 40 CFR 415.** 40 CFR 415 sets forth discharge regulations for the Inorganic Chemicals Manufacturing Point Source Category. These regulations are developed by the USEPA. The Inorganic Chemicals category contains numerous subcategories. The spreadsheet indicates subcategories A through BO. These subcategories are for many different chemicals that are manufactured – from Aluminum Chloride to Zinc Sulfate.

Subcategory AW covers Oxygen and Nitrogen Production. This subcategory applies to discharges resulting from the production of oxygen and nitrogen by air liquification. This is the process performed at Air Products. Subcategory AW contains no pretreatment standards for indirect dischargers like Air Products.

Therefore, Air Products should not be classified as a categorical industry and not subject to any categorical pretreatment standards.

The attached spreadsheet indicates pollutants such as cobalt, cyanide (total and free), iron, antimony and fluoride may apply to Air Products. These pollutants have pretreatment limitations for some of the Inorganic Chemicals Manufacturing subcategories. Subcategory AW, which would apply to Air Products, does not regulate these pollutants.

- 3. Column labeled Human Health Consumption.** The human health consumption limitations are set up by the USEPA and the State to protect water sources that can be used for a municipal drinking water supply. Air Products discharges to the Malaga sewer collection system. The water in the sewer collection is not a municipal drinking water supply source. The human health consumption limitations are used in determining limitations in WDRs and NPDES permits. The discharge from Air Products is not subject to human health consumption criteria.

In conclusion, Air Products should not be classified as a categorical user and should not be subject to categorical pretreatment standards. Air Products should remain subject to local limits only.

Air Products
 Inorganic Chemicals
 Manufacturing
 (2813)

	CMC [mg/L]	permit limit [mg/L]	40 CFR 415 (A-BO) [mg/L]	Human Health Consumption [mg/L]
flow and NR				
Oil and Grease NR				
COD				
TOD NR				
BOD NR				
TSS NR				
copper	0.013	5		1.3
lead	0.065	5		
pH				
EC				
arsenic	0.34	5		0.000018
cadmium	0.0043	0.1		
chromium, total				
chromium, hexavalent				
mercury	0.0014	0.2		0.00005
nickel	0.47	5		0.61
selenium		1		0.17
silver	0.0034	5		
zinc	0.12	5		9.1
aluminum NR		5		
barium NR		10		
boron NR		8		
cobalt				
cyanide, total	0.022			0.7
cyanide, amenable	0.022			0.7
iron				0.3
antimony				0.014
Fluoride				

CMC: criteria maximum concentration

NR: not required of EPA categorical standards

: in current permit

: needs to be added to permit according to EPA

*EC is not listed under EPA categorical pretreatment standards

§415.490

the best conventional pollutant control technology (BCT): The limitations are the same for TSS and pH as specified in §415.472(b).

Subpart AV—Strong Nitric Acid Production Subcategory [Reserved]

Subpart AW—Oxygen and Nitrogen Production Subcategory

§415.490 Applicability; description of the oxygen and nitrogen production subcategory.

The provisions of this subpart are applicable to discharges resulting from the production of oxygen and nitrogen by air liquification.

§415.491 Specialized definitions. [Reserved]

§415.492 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available (BPT).

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart must achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available (BPT):

SUBPART AW—OXYGEN AND NITROGEN

Pollution or pollutant property	BPT effluent limitations	
	Maximum for any 1 day	Average of daily values for 30 consecutive days
	Kg/kg (or pounds per 1,000 lb) of product	
Oil and grease	0.0020	0.0010
pH	(¹)	(¹)

¹ Within the range 6.0 to 9.0.

Subpart AX—Potassium Chloride Production Subcategory

§415.500 Applicability; description of the potassium chloride production subcategory.

The provisions of this subpart are applicable to discharges resulting from the production of potassium chloride

40 CFR Ch. I (7-1-12 Edition)

by the Trona process and by the mining process.

§415.501 Specialized definitions. [Reserved]

§415.502 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available (BPT).

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart must achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available (BPT): There shall be no discharge of process wastewater pollutants to navigable waters, except that residual brine and depleted liquor may be returned to the body of water from which the process brine solution was originally withdrawn.

§§415.503-415.505 [Reserved]

§415.506 Pretreatment standards for new sources (PSNS).

Except as provided in 40 CFR 403.7, any new source subject to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following pretreatment standards for new sources (PSNS): The limitations are the same as specified in §415.502.

[49 FR 33425, Aug. 22, 1984]

Subpart AY—Potassium Iodide Production Subcategory

§415.510 Applicability; description of the potassium iodide production subcategory.

The provisions of this subpart are applicable to discharges resulting from the production of potassium iodide.

§415.511 Specialized definitions.

For the purpose of this subpart:

- (a) Except as provided below, the general definitions, abbreviations and methods of analysis set forth in part



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MEMORANDUM

To: Michael Taylor, PE
From: Brian Shoener, PE
Subject: Malaga CWD – Review of Proposed PPG Discharge Limits
Date: August 8, 2014

A review was performed of the attached spreadsheet that shows proposed limits on the discharge from PPG (an industrial user) to the Malaga wastewater treatment plant. An indirect discharger (like PPG) is an industrial facility that discharges non-sanitary waste to a publicly owned treatment works (POTW). A direct discharger is an industrial facility that discharges directly to a surface water such as a river, stream, or canal. Direct dischargers are regulated by the RWQCB via a WDR or NPDES permit. Indirect dischargers are regulated by a POTW via an industrial user permit. PPG is subject to regulation by an industrial user permit.

There are several items presented in the attached spreadsheet that are being mistakenly applied to an indirect discharger like PPG:

1. **Column labeled CMC.** CMC is the Criterion Maximum Concentration. CMC is a numerical criteria set by the USEPA or the State to protect aquatic life. CMC limitations apply only to direct dischargers. This means that CMC limitations would apply to industrial facilities that discharge to a surface water that contains aquatic life. CMC limitations do not apply to indirect dischargers like PPG since they discharge into a sewer collection system. The water in the sewer collection system is not subject to limitations to protect aquatic life in the sewer. The CMC limitations in the attached spreadsheet do not apply to PPG.
2. **Column labeled 40 CFR 426.** 40 CFR 426 sets forth discharge regulations for the Glass Manufacturing Point Source Category. These regulations are developed by the USEPA. The Glass Manufacturing category contains thirteen subcategories. The spreadsheet indicates subcategories H and K thru M apply to PPG. These subcategories are:

H – Glass Container Manufacturing
K – Television Picture Tube Envelope Manufacturing
L – Incandescent Lamp Envelope Manufacturing
M – Hand Pressed and Blown Glass Manufacturing

PPG does not meet the applicability criteria set forth in 40 CFR 426 for the above subcategories.

The PPG facility in Malaga manufactures plate glass. Plate glass manufacturing is covered under Subpart D of 40 CFR 426. The regulations in 40 CFR 426 Subpart D were published on February 14, 1974. This is the date used to determine if a facility is a new source or existing source. Since the PPG facility in Malaga was constructed after 1974, it is classified as a new source. The pretreatment standards for new sources in Subpart D are set forth in 40 CFR 426.46. This sections states:

Any new source subject to this subpart that introduces process wastewater pollutants into a publicly owned treatment works must comply with 40 CFR 403.

PPG does not discharge any process wastewater to the POTW. The discharge from PPG is from boiler blowdown. There are no discharge limitations associated with 40 CFR 426 Subpart D new sources. Compliance with 40 CFR 403 is done by meeting the requirements of Malaga's industrial waste permit. PPG is not designated as a categorical user because there are no categorical requirements. PPG is only subject to local limitations as set forth in the industrial waste permit.

- 3. Column labeled Human Health Consumption.** The human health consumption limitations are set up by the USEPA and the State to protect water sources that can be used for a municipal drinking water supply. PPG discharges to the Malaga sewer collection system. The water in the sewer collection is not a municipal drinking water supply source. The human health consumption limitations are used in determining limitations in WDRs and NPDES permits. The discharge from PPG is not subject to human health consumption criteria.

In conclusion, PPG should not be classified as a categorical user and should not be subject to categorical pretreatment standards. PPG should remain subject to local limits only.



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MEMORANDUM

To: Michael Taylor, PE
From: Brian Shoener, PE *BGS*
Subject: Malaga CWD – Review of Proposed RockTenn Discharge Limits
Date: August 12, 2014

A review was performed of the attached spreadsheet that shows proposed limits on the discharge from RockTenn (an industrial user) to the Malaga wastewater treatment plant. An indirect discharger (like RockTenn) is an industrial facility that discharges non-sanitary waste to a publicly owned treatment works (POTW). A direct discharger is an industrial facility that discharges directly to a surface water such as a river, stream, or canal. Direct dischargers are regulated by the RWQCB via a WDR or NPDES permit. Indirect dischargers are regulated by a POTW via an industrial user permit. RockTenn is subject to regulation by an industrial user permit.

There are several items presented in the attached spreadsheet that are being mistakenly applied to an indirect discharger like PPG:

1. **Column labeled CMC.** CMC is the Criterion Maximum Concentration. CMC is a numerical criteria set by the USEPA or the State to protect aquatic life. CMC limitations apply only to direct dischargers. This means that CMC limitations would apply to industrial facilities that discharge to a surface water that contains aquatic life. CMC limitations do not apply to indirect dischargers like RockTenn since they discharge into a sewer collection system. The water in the sewer collection system is not subject to limitations to protect aquatic life in the sewer. The CMC limitations in the attached spreadsheet do not apply to RockTenn.
2. **Column labeled 40 CFR 430.** 40 CFR 430 sets forth discharge regulations for the Pulp, Paper, and Paperboard Point Source Category. These regulations are developed by the USEPA. The Pulp, Paper, and Paperboard category regulates industries that take wood or recycled paper and produce paper. There are two types of paper making facilities – integrated and non-integrated. Integrated facilities are those that take a raw product (wood or recycled paper) and produce a finished paper product. Non-integrated facilities are those that just produce pulp (a thick fibre board product) or those that take the pulp and produce a finished paper product. There are several ways to produce pulp and finished paper products. These various ways are shown in the various subcategories in the 40 CFR 430 regulations.

RockTenn takes kraft paper and makes boxes using corrugators then prints labels on the boxes. Kraft paper is finished paper product. RockTenn does not produce pulp or take pulp to make a finished product. As such, RockTenn does not perform any of the processes regulated by 40 CFR 430. Therefore, RockTenn should not be classified as a categorical industry and not subject to any categorical pretreatment standards.

The attached spreadsheet indicates pollutants such as various chlorinated hydrocarbons and pesticides may apply to RockTenn. These pollutants have pretreatment limitations for some of the Pulp, Paper, and Paperboard subcategories. Since RockTenn is not regulated under any of the subcategories in the Pulp, Paper, and Paperboard category, the chlorinated hydrocarbons and pesticides shown in the spreadsheet do not apply.

- 3. Column labeled Human Health Consumption.** The human health consumption limitations are set up by the USEPA and the State to protect water sources that can be used for a municipal drinking water supply. RockTenn discharges to the Malaga sewer collection system. The water in the sewer collection is not a municipal drinking water supply source. The human health consumption limitations are used in determining limitations in WDRs and NPDES permits. The discharge from RockTenn is not subject to human health consumption criteria.

In conclusion, RockTenn should not be classified as a categorical user and should not be subject to categorical pretreatment standards. RockTenn should remain subject to local limits only.

RockTenn
Pulp, Paper, Paperboard
(2631)

	CMC (mg/L)	permit limit [mg/L]	40 CFR 430 (A-G, I-L) [mg/L]	Human Health Consumption [mg/L]	Organoleptic Effect Criteria [mg/L]
flow and NR					
Oil and Grease NR					
COD NR					
BOD NR					
TSS NR					
aluminum NR	0.75	5			
arsenic NR	0.34	5		0.000018	
barium NR		10		1	
boron NR		8			
cadmium NR	0.0043	0.1			
chromium NR		5			
copper NR	0.013	5		1.3	
lead NR	0.065	5			
mercury NR	0.0014	0.2		0.00005	
nickel NR	0.47	5		0.61	
selenium NR		1		0.17	
silver NR	0.0034	5			
zinc	0.12	5		9.1	
EC					
PCPNB					
2,3,4,6-tetra-chlorophenol					0.001
2,4,5-trichloro-phenol					0.001
2,4,6-trichloro-phenol				0.0021	0.002
3,4,5-trichloro-catechol					
3,4,5-trichloro-guaiacol					
3,4,6-trichloro-catechol					
3,4,6-trichloro-guaiacol					
4,5,6-trichloro-guaiacol					
chloroform				0.0057	
N-nitro-n-propylamine					
TCDF					
tetrachloro-catechol					
tetrachloro-guaiacol					
trichlorosyringol					
2,3,7,8-tetrachloro-dibenzo-p-dioxin				1.30E-11	

CMC: criteria maximum concentration
NR: not required of EPA categorical standards
 :in current permit
 :needs to be added to permit according to EPA
*EC is not listed under EPA categorical pretreatment standards

Attachment H: Local Limits Action Plan

Malaga County Water District
Draft Work Plan
Local Limits Evaluation Action Plan
October 9, 2014

A Pretreatment Program is required by NPDES Permit # CA0084239 for Malaga County Water District. Local Limits are required pretreatment standards specified in 40CFR 403.5 to “develop and enforce specific effluent limits for Industrial Users which.....are necessary to ensure renewed and continued compliance with the POTW’s NPDES permit or sludge use or disposal practices”. Malaga County Water District has prepared the following Local Limits Action Plan to ensure compliance with section 307d of the Clean Water Act as specified in the laws contained in 40CFR403. The purpose of Local Limits is to identify pollutant limits for industrial dischargers that are within the range of the MCWD WWTF to eliminate or reduce as required by the NPDES permit, the Tulare Lake Basin Water Quality Control Plan, US EPA regulations, and the Clean Water Act.

The Local Limits Evaluation is in response to the RWQCB Supplemental NOV dated August 18, 2014, with specific reference to 40 CFR 403.18.

Tasks

Malaga County Water District Board of Directors to Authorize Preparation of the Local Limits Evaluation Report (October, 2014)

Submit Draft Local Limits Evaluation Action Plan to the RWQCB for review and approval. (October, 2014)

Prepare Outline of Local Limits Evaluation Report (October, 2014)

Identify specific Local Limits Evaluation deliverables

Background Information Review (October, 2014)

1. Review Monitoring and Reporting Information for the past 3 years (2012, 2013, 2014)
 - 1.1. WWTP Influent
 - 1.2. WWTP Effluent
 - 1.3. IU discharge data
 - 1.4. WWTP sludge (on site and hauled away)
 - 1.5. Other
2. Review Existing Reports such as the TRE report.

3. Prepare District collection system exhibit identifying Industrial sewer and Domestic sewer. Define sampling locations.
See attached draft Exhibit
4. Prepare WWTP exhibit for definition of sampling locations. Include photographs of sample locations as appropriate.
See attached draft Exhibit

Prepare Sampling Plan (October, 2014)

5. Develop recommended sampling plan. Sampling plan to include sample locations, sample type, schedule of samples, frequency of samples, test method, detection limit. The sampling plan will describe the purpose of each sample. Sampling shall include the receiving stream. Many of the samples must be 24 hour composites.

Draft Example Sampling Plan. Final Sampling Plan to include schedule of samples, location identifier and description of all sample locations.

Pollutant	Residential (__ sampling events)	Commercial (__ sampling event)	Treatment Plant (__ sampling events)	Treatment Plant _____flow streams (__ sampling events)	Test Method	Preferred Detection Limit
BOD						
TSS						
TDS						
Electroconductivity						
Ammonia						
FOG (HEM)						
Aluminum						
Arsenic						
Barium						
Boron						
Cadmium						
Calcium						
Chromium						
Copper						
Fluoride						

Iron						
Lead						
MBAS						
Magnesium						
Mercury						
Molybdenum						
Nickel						
Nitrate						
Nitrite						
Phosphorus						
Selenium						
Silver						
Sodium						
Zinc						
Benzene						
Chloride						
Cyanide						
Bis (2-ethylhexyl) phthalate						
Pentachlorophenol						
Tetrachloroethene						
Endosulfan II						
Endrin						
Heptachlor						
Bromodichloromethane						
Bromoform						
4,4' DDE						
Phenols						

Residential Sampling

Define location(s) and purpose.

Samples must be taken in the collection system to determine the background (residential) loading. The Action Plan should state the locations where these samples are to be taken such as a street intersection. The samples should be taken and analyzed using the methods listed. At least two residential sample locations should be selected.

Commercial/Industrial Sampling

Define locations and purpose.

Samples would also be required at several industrial and commercial discharges. The locations and reasons for the sample sites require justification. Estimates of mass loadings from multiple industrial and commercial sites would be required.

Treatment Plant

Samples and estimates of flow for the following processes will include:

- Plant influent
- Primary effluent
- Secondary effluent
- Feed to aerobic digesters
- Secondary effluent
- Tertiary effluent if available
- RAS
- Sludge wasting
- Receiving stream

In addition to the sampling information, the basis-of-design for the treatment plant will be reviewed regarding design loadings for the non-conservative pollutants (ammonia, BOD, and TSS).

The relationship between location of samples and date or time of collection may be important to note as waste streams or other relationships between the sample locations are identified.

EPA 833-R-04-002A Local Limits Development Guide, section 4.3.1, recommends 7-14 days of influent samples and 2 days of sludge samples be collected. For this Local Limits study, the District will collect influent samples for 10 days and sludge samples on 2 days. The hydraulic detention time of the WWTF is 41 hours. The detention time of the aerobic digesters is 45 days. Therefore, effluent samples for determining the loading and treatment efficiency will be taken at the appropriate time intervals. Effluent samples will be collected 41 hours after influent samples, and the 2 sludge samples will be taken 45 days after influent samples.

Implement Sampling Plan (November and December 2014)

6. Obtain samples as defined in the Sampling Plan. Populate data tables. Prepare the basis for calculations for loadings, removal efficiencies, and definition of POC limits.

No sampling would be performed within 48 hours of a measurable precipitation event. Chain of custody and procedures for recording sampling activities will be included.

7. Summarize the data. Identify data gaps. List all pollutants that were detected. Add any WDR pollutants and existing local limit pollutants. Develop the list of Potential POCs. Address potential foaming agents. See the example table below. A specific table will be prepared for the Malaga County Water District.

Review and utilize Figure 2-1 of the EPA Manual 833-R-04-002A

Draft Potential POCs

Pollutant	Effluent concentration more than half of effluent standard	Sludge concentration more than half of sludge disposal standard	Influent concentration more than 25% of inhibition concentration	Required by EPA	Existing local limit
BOD					
TSS					
TDS					
Electroconductivity					
Aluminum					
Ammonia					
FOG					
Arsenic					
Barium					
Boron					
Cadmium					
Calcium					
Chromium					
Copper					
Fluoride					
Iron					
Lead					
MBAS					
Magnesium					
Mercury					
Molybdenum					
Nitrate					
Nitrite					
Nickel					
Phosphorus					
Selenium					
Silver					
Sodium					

Zinc					
Benzene					
Chloride					
Cyanide					
Bis (2-ethylhexyl) phthalate					
Pentachlorophenol					
Tetrachloroethene					
Edosulfan II					
Endrin					
Heptachlor					
Bromodichloromethane					
Bromoform					
4,4' DDE					
Phenols					

Calculations and Analysis (January through mid February 2015)

8. Calculate constituent loadings to WWTP processes. Calculate removal efficiencies. Define WDR limits and inhibition values. Utilize Chapter 5 of EPA 833-R-04-002A as a guide.
9. Calculate Maximum Allowable Headworks Loading (MAHL) – Based on calculated WWTP removal efficiency for each POC, calculate AHL based on WDR, water quality limits, sludge disposal and inhibition values. The most stringent AHL becomes the MAHL.
10. Determine which POCs need limits – Compare MAHL with average influent loading. If average influent loading is greater 60% of the MAHL, limits need to be developed.
11. Determine Maximum Allowable Influent Loading (MAIL) – Subtract background (residential) loading from the MAHL, accounting for a safety factor.
12. Develop Draft Local limits allocations – Uniform, IU Specific, or Mass Proportion.
13. Calculate fume toxicity for volatile POCs for the purpose of protecting staff, treatment works, and the collection system.
14. Document recommended oil and grease limit.

Summary Report and Recommendations (February 2015)

15. Finalize draft Local Limits Evaluation Report.

16. Summarize procedures followed.
17. Summarize sampling results.
18. Summarize calculations.
19. Summarize recommended Local Limits.
20. Describe the means to enforce local limits. Information used may include concentrations or mass discharge. The application of local limits may not necessarily be the same for all dischargers – due to the type of discharge.
21. Describe recommended on-going sampling, analysis, and evaluation.

Public Participation (March, 2015)

22. Public Participation – Notify existing SIUs, RWQCB, and other interested parties of proposed local limits as per legal requirements. Provide public notification of draft MCWD Ordinance revisions.
23. Receive public comment on proposed local limits.

Submittal of Draft Local Limits Evaluation to the RWQCB (April, 2015)

24. Submit draft report for RWQCB review, comment, and approval.
25. Receive RWQCB comments and approval.

Adopt Updated Local Limits (TBD)

26. Adopt updated Ordinance.

Pollutant	Reason	Test Method	Sample Type (per event)
BOD	EPA	SM5210B	Grab
TSS	EPA	SM2540D	Grab
TDS	Concern	SM2540C	Grab
Electroconductivity	WDR	SM2510B	Grab
Aluminum	LL	200.7	24 hr composite
Ammonia	EPA	350.1	Grab
FOG	LL	1664	Grab
Arsenic	EPA/LL	200.8	24 hr composite
Barium	LL	200.7	24 hr composite
Boron	LL	200.7	24 hr composite
Cadmium	EPA/LL	200.8	24 hr composite
Calcium	Data	200.7	24 hr composite
Chromium	EPA/LL	200.8	24 hr composite
Copper	EPA/LL	200.8	24 hr composite
Iron	LL	200.7	24 hr composite
Lead	EPA/LL	200.8	24 hr composite
MBAS	Concern	SM5540C	Grab
Magnesium	Data	200.7	24 hr composite
Mercury	EPA/LL	1631	24 hr composite
Molybdenum	EPA	200.8	24 hr composite
Nitrate	WDR	300	Grab
Nickel	EPA/LL	200.8	24 hr composite
Phosphorus	Biosolids	365.1	Grab
Selenium	EPA/LL	200.8	24 hr composite
Silver	EPA/LL	200.8	24 hr composite
Sodium	Data	200.7	24 hr composite
Zinc	EPA/LL	200.8	24 hr composite
Benzene	LL	524.2	Grab
Chloride	WDR	300	24 hr composite
Cyanide	EPA	SM4500	Grab
Heptachlor	Data	608	24 hr composite
Bromodichloromethane	Data	624	24 hr composite
Bromoform	Data	624	24 hr composite
Phenols	LL	528	Grab

Preferred Detection Limit
2 mg/L
1 mg/L
5 mg/L
1 umhos/cm
0.05 mg/L
1 mg/L
10 mg/L
1 ug/L
0.05 mg/L
0.05 mg/L
0.05 ug/L
0.1 mg/L
1 ug/L
2 ug/L
0.03 mg/L
0.5 ug/L
0.05 mg/L
0.05 mg/L
0.5 ng/L
1 ug/L
1 mg/L
1 ug/L
0.1 mg/L
1 ug/L
1 ug/L
1 mg/L
5 ug/L
1 ug/L
2 mg/L
5 ug/L
0.05 ug/L
0.5 ug/L
0.5 ug/L
1 ug/L

Attachment I: Activated Sludge Analysis by Dr. Michael Richard

Michael Richard Wastewater Microbiology LLC

Michael Richard, Ph.D
michaelrichard@mrwwwm.com
www.mrwwwm.com

2708 Redwing Road, Fort Collins, CO 80526
Phone/Fax: 970-223-6571

February 2, 2015

MEMO TO: James Anderson
Malaga County Water District
3580 South Frank Street
Fresno, CA 93725

Phone: 559/485-7353
FAX: 559/485-7319
email: ?

FEB 9 2015

FROM: Michael Richard, Ph.D.

RE: Microscopic Examination Results for Sludge Samples Dated 1/27/15.

Enclosed please find microscopic examination results for a MLSS and aerobic digester sample dated 1/27/15. Digital photos on CD that illustrate the findings are enclosed. Following is a summary of findings.

MLSS

Filaments were present in the MLSS at SOME, insignificant. This sludge settled quickly with a SSV30 = 3-4%. The activated sludge flocs were firm and rounded in shape. Floc size ranged from 25 to 600 um in diameter, normal in size. A few higher life forms were present but these were all dead. These were a few stalks, rotifers and testate amoebae. Polysaccharide in the flocs was normal by staining, a sign of good nutrient supply. A very common amount of nitrifying bacteria was present (*Nitrosomonas* and *Nitrobacter*). No phosphorus accumulating organisms (PAO) were observed. Filaments present were:

RANK	FILAMENTOUS ORGANISM	ABUNDANCE
1	<i>Thiothrix</i> I	some
2	<i>Thiothrix</i> II	few
2	<i>Nostocoida limicola</i> III	few

These filaments were mostly dead.

Aerobic Digester MLSS

Filaments were present in the digester MLSS at SOME, insignificant. This sludge settled quickly with a SSV30 = 20%. The activated sludge flocs were firm and rounded in shape. Floc size ranged from 50 to 600 um in diameter, normal in size. A few higher life forms were present which were alive and healthy. These were a few stalks and testate amoebae. Polysaccharide in the flocs was normal by staining, a sign of good nutrient supply. A very common amount of nitrifying bacteria was present (*Nitrosomonas* and *Nitrobacter*). No phosphorus accumulating organisms (PAO) were observed. The filaments present were almost the same as observed in the aeration basin MLSS. These were some *Thiothrix* I and a few *N. limicola* III. These filaments appeared alive but not growing well.

J. Anderson
2/2/15
Page 2

Significance of Findings

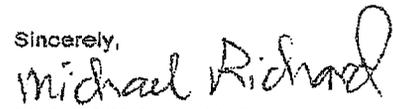
The MLSS and digester MLSS looked almost the same. Both appeared healthy but with mostly dead or damaged filaments. A few higher life forms were present, but these were mostly dead in the aeration MLSS and appeared alive in the digester MLSS. Filaments were low in amount and insignificant in both sludges. Present in the aeration basin MLSS were a low amount of *Thiothrix* I and II and *N. limicola* III. The digester MLSS also had a low amount of filaments which were some *Thiothrix* I and a few *N. limicola* III. Both sludges had a high amount of healthy nitrifying bacteria.

These filaments have the same cause which is septicity. This is not a problem as these filaments were low in amount.

Your note with the sample indicated a high ammonia loading (60 mg/L) and almost complete nitrification which is excellent. A high amount of nitrifying bacteria was present in both sludges and appeared healthy. You also indicated that you thought that the F/M was too low and maybe you should go to one aeration basin operation. The micro results confirm this and indicate an older appearing sludge. It appeared "starving" and not that healthy. I think that a process change to one basin operation is a good idea. You should also check the system for septicity, as this could become an issue at higher organic loading.

I am Faxing this report with the original report and photos following by mail. Please give me a call at 970-223-6571 if you have any questions or wish to discuss these findings.

Sincerely,


Michael Richard, Ph.D.

Sample No. 18093 Sample: Malaga County MLSS
 Sample Date 1/27/15 Observation Date 1/29/15

I. 100X Phase Contrast Observation:

Filament Abundance:
 0 1 2 3 4 5 6
 None Few Some Common Very Abundant Excessive
 Common

Filament Effect on Floc Structure:

Little or None Bridging Open Floc

Morphology of Floc:

PF low Firm; Weak Round, Compact Irregular, Diffuse

Size, um

200-400

India Ink - Normal

% of flocs <150 150-500 >500

nitro sommas
nitro clus ✓

Protozoa or Metazoa:

BDA STAINS - F TA - 1 - 100
Dendrot - F

II. 1000X Phase Contrast Observation:

A B C D high in irregular flocs

Branching Motility	=	=	=		
Filament Shape	straight	straight			
Location	interflocs	at flocs			
Crosswalls	+	+			
Sheath	+	+			
Attached Growth	-	-			
Filament Length (um)	50-150	20-60			
Diameter	2.0	1.4			
Cell Shape	rectangular	rectangular			
Size (um)	2.0 x 2-3	1.4 x 2.0			
Sulfur Deposits	=	=	F		
Other Granules	=	=	F		
Gram Stain	=	=	-		
Neisser Stain	=	=	+		
COMMONNESS	S	F	F		
RANK	1	2	2		

IDENTIFICATION

Thio - F Thio - F dead
NOT head thio / dead N₂
III

COMMENTS:SSV30=

3-4% mod turb

Sample No. 18093 Sample: Malaga County Per Dig.
 Sample Date 1/29/15 Observation Date 1/29/15

I. 100X Phase Contrast Observation:

Filament Abundance:
 0 1 2 3 4 5 6
 None Few Some Common Very Abundant Excessive
 Common

Filament Effect on Floc Structure:

Little or None Bridging Open Floc

Morphology of Floc:

Firm; Weak Round, Compact Irregular, Diffuse

Size, um

50-600

India Ink -

normal
~~in 100X phase contrast~~
microscopic ✓
high mag.

% of flocs <150 150-500 >500

Protozoa or Merazoa:

Stk - f TA - f

II. 1000X Phase Contrast Observation:

A B C D E

Branching	=		=		
Motility	=		=		
Filament Shape	<u>Straight</u>		<u>curved</u>		
Location	<u>in floc</u>		<u>in floc</u>		
Crosswalls	<u>+</u>		<u>+</u>		
Sheath	<u>+</u>		<u>+</u>		
Attached Growth	<u>-</u>		<u>-</u>		
Filament Length (um)	<u>50-150</u>		<u>40-100</u>		
Diameter	<u>2.0</u>		<u>2.0</u>		
Cell Shape	<u>Rectangular</u>		<u>triangular</u>		
Size (um)	<u>2.0 x 2.3</u>		<u>2.0 x 2.0</u>		
Sulfur Deposits	<u>-</u>		<u>-</u>		
Other Granules	<u>-</u>		<u>-</u>		
Gram Stain	<u>-</u>		<u>-</u>		
Neisser Stain	<u>-</u>		<u>-</u>		
COMMONNESS	<u>5</u>		<u>2</u>		
RANK	<u>1</u>		<u>2</u>		

IDENTIFICATION

Thio. I read

Micrograph

COMMENTS:SSV30= 20% clear

Attachment J: Analytical Report of Biosolids



2527 Fresno Street
 Fresno, CA 93721
 (559) 268-7021 Phone
 (559) 268-0740 Fax

California ELAP Certificate #1371

Malaga County Water District
 3580 S. Frank
 Fresno CA, 93725

Project: Malaga Sewer Plant
 Project Number: Analytical Services
 Project Manager: Burt Siverling

Reported:
 02/18/2015

Analytical Report for Work Order BA14017

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Bio-001 (Dry)						Sampled: 01/14/15 00:00 BA14017-01 (Biosolids)					
% Solids		86	1.0	0.10	%	1	USA1518	MVY	1/17/15 12:43	1/19/15 8:05	% Calculation
Copper		2.2	0.10	0.0064	mg/L	1	USB0208	DAR	2/4/15 11:30	2/5/15 18:37	EPA 6010B
Lead		0.64	0.50	0.016	mg/L	1	USB0208	DAR	2/4/15 11:30	2/5/15 18:37	EPA 6010B
Antimony		19	2.0	0.10	mg/kg	1	USA1215	DAR	1/15/15 12:11	1/21/15 2:59	EPA 6010B
Arsenic		15	2.0	0.22	mg/kg	1	USA1215	DAR	1/15/15 12:11	1/21/15 2:59	EPA 6010B
Barium		970	20	1.3	mg/kg	10	USA1215	DAR	1/15/15 12:11	1/25/15 18:09	EPA 6010B
Beryllium	J	0.23	0.40	0.032	mg/kg	1	USA1215	DAR	1/15/15 12:11	1/21/15 2:59	EPA 6010B
Cadmium		8.5	0.40	0.023	mg/kg	1	USA1215	DAR	1/15/15 12:11	1/21/15 2:59	EPA 6010B
Chromium		160	2.0	0.078	mg/kg	1	USA1215	DAR	1/15/15 12:11	1/21/15 2:59	EPA 6010B
Cobalt		3.9	0.80	0.022	mg/kg	1	USA1215	DAR	1/15/15 12:11	1/21/15 2:59	EPA 6010B
Copper		610	2.0	0.069	mg/kg	1	USA1215	DAR	1/15/15 12:11	1/21/15 2:59	EPA 6010B
Lead		57	2.0	0.16	mg/kg	1	USA1215	DAR	1/15/15 12:11	1/21/15 2:59	EPA 6010B
Molybdenum		22	2.0	0.13	mg/kg	1	USA1215	DAR	1/15/15 12:11	1/21/15 2:59	EPA 6010B
Nickel		34	2.0	0.091	mg/kg	1	USA1215	DAR	1/15/15 12:11	1/21/15 2:59	EPA 6010B
Selenium	J	3.8	5.0	0.36	mg/kg	1	USA1215	DAR	1/15/15 12:11	1/21/15 2:59	EPA 6010B
Silver	J	1.4	2.0	0.10	mg/kg	1	USA1215	DAR	1/15/15 12:11	1/21/15 2:59	EPA 6010B
Thallium		ND	5.0	0.46	mg/kg	1	USA1215	DAR	1/15/15 12:11	1/21/15 2:59	EPA 6010B
Vanadium		200	2.5	0.38	mg/kg	1	USA1215	DAR	1/15/15 12:11	1/21/15 2:59	EPA 6010B
Zinc		1700	20	0.60	mg/kg	10	USA1215	DAR	1/15/15 12:11	1/25/15 18:09	EPA 6010B
Mercury	J	0.011	0.040	0.0095	mg/kg	1	USA2823	JTN	1/30/15 7:26	1/30/15 14:19	EPA 7471A
Diesel	AJ	550	100	40	mg/kg	10	USA2611	RND	1/26/15 11:15	1/28/15 10:35	EPA 8015B
Motor Oil		1100	100	50	mg/kg	10	USA2610	RND	1/26/15 11:14	1/28/15 10:35	EPA 8015B
Surrogate: o-Terphenyl		93.6 %	11.8-130				USA2611	RND	1/26/15 11:15	1/28/15 10:35	EPA 8015B
N-Nitrosodimethylamine		ND	0.66	0.10	mg/kg	1	USA1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
N-Nitrosomethylethylamine		ND	0.66	0.16	mg/kg	1	USA1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
Methyl Methanesulfonate		ND	0.66	0.10	mg/kg	1	USA1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
N-Nitrosodiethylamine		ND	0.66	0.10	mg/kg	1	USA1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
Ethyl Methanesulfonate		ND	0.66	0.10	mg/kg	1	USA1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
Phenol		ND	0.66	0.10	mg/kg	1	USA1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
Bis(2-chloroethyl)ether		ND	0.66	0.10	mg/kg	1	USA1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
2-Chlorophenol		ND	0.66	0.10	mg/kg	1	USA1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
1,4-Dichlorobenzene		ND	0.66	0.10	mg/kg	1	USA1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
Benzyl alcohol		ND	0.66	0.14	mg/kg	1	USA1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C



2527 Fresno Street
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California ELAP Certificate #1371

Malaga County Water District
 3580 S. Frank
 Fresno CA, 93725

Project: Malaga Sewer Plant
 Project Number: Analytical Services
 Project Manager: Burt Siverling

Reported:
 02/18/2015

Analytical Report for Work Order BA14017

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Bio-001 (Dry)			Sampled: 01/14/15 00:00 BA14017-01 (Biosolids)								
Bis(2-chloroisopropyl)ether		ND	0.66	0.10	mg/kg	1	U5A1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
2-Methylphenol		ND	0.66	0.10	mg/kg	1	U5A1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
Acetophenone		ND	0.66	0.10	mg/kg	1	U5A1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
N-Nitrosopyrrolidine		ND	0.66	0.17	mg/kg	1	U5A1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
Hexachloroethane		ND	0.66	0.10	mg/kg	1	U5A1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
o-Toluidine		ND	0.66	0.10	mg/kg	1	U5A1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
4-Methylphenol		ND	0.66	0.17	mg/kg	1	U5A1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
N-Nitrosodi-n-propylamine		ND	0.66	0.10	mg/kg	1	U5A1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
Nitrobenzene		ND	0.66	0.10	mg/kg	1	U5A1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
N-Nitrosopiperidine		ND	0.66	0.10	mg/kg	1	U5A1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
Isophorone		ND	0.66	0.10	mg/kg	1	U5A1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
2-Nitrophenol		ND	0.66	0.10	mg/kg	1	U5A1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
2,4-Dimethylphenol		ND	0.66	0.10	mg/kg	1	U5A1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
Bis(2-chloroethoxy)methane		ND	0.66	0.10	mg/kg	1	U5A1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
2,4-Dichlorophenol		ND	0.66	0.10	mg/kg	1	U5A1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
1,2,4-Trichlorobenzene		ND	0.66	0.10	mg/kg	1	U5A1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
Benzoic acid		ND	0.66	0.11	mg/kg	1	U5A1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
Safrole		ND	0.66	0.10	mg/kg	1	U5A1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
2,6-Dichlorophenol		ND	0.66	0.10	mg/kg	1	U5A1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
N-Nitrosodi-n-butylamine		ND	0.66	0.10	mg/kg	1	U5A1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
4-Chloro-3-methylphenol		ND	0.66	0.10	mg/kg	1	U5A1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
2-Methylnaphthalene		ND	0.66	0.10	mg/kg	1	U5A1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
Hexachlorocyclopentadiene		ND	0.66	0.10	mg/kg	1	U5A1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
2,4,5-Trichlorophenol		ND	0.66	0.15	mg/kg	1	U5A1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
2,4,6-Trichlorophenol		ND	0.66	0.23	mg/kg	1	U5A1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
2-Chloronaphthalene		ND	0.66	0.10	mg/kg	1	U5A1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
2-Nitroaniline		ND	0.66	0.10	mg/kg	1	U5A1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
1,4-Naphthoquinone		ND	0.66	0.10	mg/kg	1	U5A1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
Dimethyl phthalate		ND	0.66	0.10	mg/kg	1	U5A1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C



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California ELAP Certificate #1371

Malaga County Water District
 3580 S. Frank
 Fresno CA, 93725

Project: Malaga Sewer Plant
 Project Number: Analytical Services
 Project Manager: Burt Siverling

Reported:
 02/18/2015

Analytical Report for Work Order BA14017

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Bio-001 (Dry)						Sampled: 01/14/15 00:00 BA14017-01 (Biosolids)					
Acenaphthylene		ND	0.66	0.10	mg/kg	1	U5A1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
1,3-Dinitrobenzene		ND	0.66	0.17	mg/kg	1	U5A1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
2,6-Dinitrotoluene		ND	0.66	0.10	mg/kg	1	U5A1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
3-Nitroaniline		ND	0.66	0.10	mg/kg	1	U5A1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
5-Nitro-o-toluidine		ND	0.66	0.10	mg/kg	1	U5A1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
1,2-Diphenylhydrazine		ND	0.66	0.10	mg/kg	1	U5A1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
Acenaphthene		ND	0.66	0.10	mg/kg	1	U5A1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
2,4-Dinitrophenol		ND	0.66	0.19	mg/kg	1	U5A1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
Pentachlorobenzene		ND	0.66	0.10	mg/kg	1	U5A1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
4-Nitrophenol		ND	0.66	0.23	mg/kg	1	U5A1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
1-Naphthylamine		ND	0.66	0.11	mg/kg	1	U5A1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
2,4-Dinitrotoluene		ND	0.66	0.10	mg/kg	1	U5A1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
2-Naphthylamine		ND	0.66	0.10	mg/kg	1	U5A1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
2,3,4,6-Tetrachlorophenol		ND	0.66	0.10	mg/kg	1	U5A1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
Fluorene		ND	0.66	0.10	mg/kg	1	U5A1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
Diethyl phthalate		ND	0.66	0.10	mg/kg	1	U5A1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
4-Chlorophenyl phenyl ether		ND	0.66	0.10	mg/kg	1	U5A1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
Methapyrilene		ND	0.66	0.10	mg/kg	1	U5A1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
4-Nitroaniline		ND	0.66	0.12	mg/kg	1	U5A1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
4-Aminobiphenyl		ND	0.66	0.22	mg/kg	1	U5A1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
Diphenylamine		ND	0.66	0.10	mg/kg	1	U5A1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
Benzidine		ND	0.66	0.10	mg/kg	1	U5A1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
N-Nitrosodiphenylamine		ND	0.66	0.21	mg/kg	1	U5A1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
4,6-Dinitro-2-methylphenol		ND	0.66	0.10	mg/kg	1	U5A1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
Phenacetin		ND	0.66	0.10	mg/kg	1	U5A1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
Pentachloronitrobenzene		ND	0.66	0.10	mg/kg	1	U5A1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
4-Bromophenyl phenyl ether		ND	0.66	0.10	mg/kg	1	U5A1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
Hexachlorobenzene		ND	0.66	0.10	mg/kg	1	U5A1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
Pentachlorophenol		ND	0.66	0.10	mg/kg	1	U5A1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C



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California ELAP Certificate #1371

Malaga County Water District
 3580 S. Frank
 Fresno CA, 93725

Project: Malaga Sewer Plant
 Project Number: Analytical Services
 Project Manager: Burt Siverling

Reported:
 02/18/2015

Analytical Report for Work Order BA14017

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Bio-001 (Dry)										Sampled: 01/14/15 00:00 BA14017-01 (Biosolids)	
Phenanthrene		ND	0.66	0.10	mg/kg	1	USA1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
Anthracene		ND	0.66	0.10	mg/kg	1	USA1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
Di-n-butyl phthalate		ND	0.66	0.10	mg/kg	1	USA1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
Fluoranthene		ND	0.66	0.10	mg/kg	1	USA1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
Pyrene		ND	0.66	0.10	mg/kg	1	USA1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
p-Dimethylaminoazobenzene		ND	0.66	0.10	mg/kg	1	USA1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
3,3'-Dimethylbenzidine		ND	0.66	0.10	mg/kg	1	USA1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
Butyl benzyl phthalate		ND	0.66	0.10	mg/kg	1	USA1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
2-Acetylaminofluorene		ND	0.66	0.10	mg/kg	1	USA1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
Benzo (a) anthracene		ND	0.66	0.10	mg/kg	1	USA1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
Chrysene		ND	0.66	0.10	mg/kg	1	USA1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
Bis(2-ethylhexyl) phthalate		0.97	0.66	0.10	mg/kg	1	USA1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
Di-n-octyl phthalate		ND	0.66	0.10	mg/kg	1	USA1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
7,12-Dimethylbenz(a)anthracene		ND	0.66	0.10	mg/kg	1	USA1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
Benzo (b) fluoranthene		ND	0.66	0.10	mg/kg	1	USA1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
Benzo (k) fluoranthene		ND	0.66	0.10	mg/kg	1	USA1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
Benzo (a) pyrene		ND	0.66	0.10	mg/kg	1	USA1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
3,3'-Dichlorobenzidine		ND	0.66	0.10	mg/kg	1	USA1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
3-Methylcholanthrene		ND	0.66	0.10	mg/kg	1	USA1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
Indeno(1,2,3-cd)pyrene		ND	0.66	0.10	mg/kg	1	USA1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
Dibenzo(a,h)anthracene		ND	0.66	0.10	mg/kg	1	USA1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
Benzo(ghi)perylene		ND	0.66	0.10	mg/kg	1	USA1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
O,O,O-Triethyl phosphorothioate		ND	0.66	0.10	mg/kg	1	USA1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
Pronamide		ND	0.66	0.10	mg/kg	1	USA1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
Surrogate: 2-Fluorophenol		25.4 %	22-92				USA1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
Surrogate: Phenol-d5		27.7 %	10-94				USA1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
Surrogate: Nitrobenzene-d5	S02	28.3 %	41-110				USA1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
Surrogate: 2-Fluorobiphenyl	S02	32.0 %	40-92				USA1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
Surrogate: 2,4,6-Tribromophenol	S02	28.9 %	49-138				USA1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C
Surrogate: dl-1-Terphenyl		54.8 %	44-131				USA1510	FFP	1/15/15 9:12	1/16/15 22:49	EPA 8270C



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California ELAP Certificate #1371

Malaga County Water District
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Project: Malaga Sewer Plant
 Project Number: Analytical Services
 Project Manager: Burt Siverling

Reported:
 02/18/2015

Analytical Report for Work Order BA14017

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Bio-001 (Dry)						Sampled: 01/14/15 00:00 BA14017-01 (Biosolids)					
Gasoline		ND	1.0	0.027	mg/kg	1	USA2110	Dorie	1/21/15 10:15	1/21/15 12:42	EPA 8015B
Surrogate: <i>t</i> -Bromofluorobenzene (FID)		105 %	70-130				USA2110	Dorie	1/21/15 10:15	1/21/15 12:42	EPA 8015B
Dichlorodifluoromethane (CFC-12)		ND	0.0050	0.00047	mg/kg	5	USA1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
Chloromethane		ND	0.0050	0.00066	mg/kg	5	USA1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
Vinyl chloride		ND	0.0050	0.00076	mg/kg	5	USA1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
Bromomethane		ND	0.0050	0.0035	mg/kg	5	USA1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
Chloroethane		ND	0.0050	0.0010	mg/kg	5	USA1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
Trichlorofluoromethane (CFC-11)		ND	0.0050	0.00076	mg/kg	5	USA1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
Ethanol	J	0.18	0.25	0.054	mg/kg	5	USA1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)		ND	0.0050	0.00085	mg/kg	5	USA1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
Trichlorotrifluoroethane (CFC-113)		ND	0.0050	0.00085	mg/kg	5	USA1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
1,1-Dichloroethene		ND	0.0050	0.00092	mg/kg	5	USA1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
Carbon disulfide		ND	0.0050	0.00066	mg/kg	5	USA1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
Iodomethane		ND	0.0050	0.0018	mg/kg	5	USA1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
Acrolein		ND	0.25	0.020	mg/kg	5	USA1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
Methylene chloride		ND	0.010	0.0015	mg/kg	5	USA1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
Acetone		0.10	0.10	0.0034	mg/kg	5	USA1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
trans-1,2-Dichloroethene		ND	0.0050	0.00081	mg/kg	5	USA1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
tert-Butyl alcohol (TBA)		ND	0.10	0.011	mg/kg	5	USA1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
Methyl tert-Butyl Ether (MTBE)		ND	0.0050	0.0018	mg/kg	5	USA1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
Di-isopropyl ether (DIPE)		ND	0.0050	0.00074	mg/kg	5	USA1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
Chloroprene		ND	0.0050	0.00081	mg/kg	5	USA1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
1,1-Dichloroethane		ND	0.0050	0.00040	mg/kg	5	USA1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
Acrylonitrile		ND	0.050	0.014	mg/kg	5	USA1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
Ethyl tert-Butyl Ether (ETBE)		ND	0.0050	0.00058	mg/kg	5	USA1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
Vinyl acetate		ND	0.0050	0.0022	mg/kg	5	USA1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
cis-1,2-Dichloroethene		ND	0.0050	0.00036	mg/kg	5	USA1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
2,2-Dichloropropane		ND	0.0050	0.0010	mg/kg	5	USA1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
Bromochloromethane		ND	0.0050	0.0012	mg/kg	5	USA1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B



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Project: Malaga Sewer Plant
 Project Number: Analytical Services
 Project Manager: Burt Siverling

Reported:
 02/18/2015

Analytical Report for Work Order BA14017

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Bio-001 (Dry)						Sampled: 01/14/15 00:00 BA14017-01 (Biosolids)					
Chloroform		ND	0.0050	0.00056	mg/kg	5	USA1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
Carbon tetrachloride		ND	0.0050	0.00071	mg/kg	5	USA1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
2-Butanone (MEK)		ND	0.0050	0.0015	mg/kg	5	USA1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
1,1,1-Trichloroethane (TCA)		ND	0.0050	0.00060	mg/kg	5	USA1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
1,1-Dichloropropene		ND	0.0050	0.00080	mg/kg	5	USA1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
Tert-Amyl Methyl Ether (TAME)		ND	0.0050	0.00090	mg/kg	5	USA1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
Benzene		ND	0.0050	0.00094	mg/kg	5	USA1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
1,2-Dichloroethane (1,2-DCA)		ND	0.0050	0.00070	mg/kg	5	USA1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
Trichloroethene (TCE)		ND	0.0050	0.00050	mg/kg	5	USA1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
Dibromomethane		ND	0.0050	0.00082	mg/kg	5	USA1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
1,2-Dichloropropane		ND	0.0050	0.00072	mg/kg	5	USA1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
Bromodichloromethane		ND	0.0050	0.00064	mg/kg	5	USA1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
Methyl Methacrylate		ND	0.0050	0.0016	mg/kg	5	USA1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
2-Chloroethylvinyl ether		ND	0.10	0.0020	mg/kg	5	USA1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
cis-1,3-Dichloropropene		ND	0.0050	0.00044	mg/kg	5	USA1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
Toluene		ND	0.0050	0.00078	mg/kg	5	USA1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
4-Methyl-2-pentanone (MIBK)		ND	0.0050	0.0016	mg/kg	5	USA1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
trans-1,3-Dichloropropene		ND	0.0050	0.00056	mg/kg	5	USA1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
Tetrachloroethene (PCE)		ND	0.0050	0.00070	mg/kg	5	USA1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
1,1,2-Trichloroethane		ND	0.0050	0.00083	mg/kg	5	USA1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
Ethyl methacrylate		ND	0.0050	0.0038	mg/kg	5	USA1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
Dibromochloromethane		ND	0.0050	0.00055	mg/kg	5	USA1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
1,3-Dichloropropane		ND	0.0050	0.00060	mg/kg	5	USA1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
1,2-Dibromoethane (EDB)		ND	0.0050	0.00065	mg/kg	5	USA1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
2-Hexanone		ND	0.0050	0.0014	mg/kg	5	USA1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
Ethylbenzene		ND	0.0050	0.00076	mg/kg	5	USA1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
Chlorobenzene		ND	0.0050	0.00082	mg/kg	5	USA1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
1,1,1,2-Tetrachloroethane		ND	0.0050	0.00054	mg/kg	5	USA1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
m,p-Xylene		ND	0.0050	0.0014	mg/kg	5	USA1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B



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California ELAP Certificate #1371

Malaga County Water District
 3580 S. Frank
 Fresno CA, 93725

Project: Malaga Sewer Plant
 Project Number: Analytical Services
 Project Manager: Burt Siverling

Reported:
 02/18/2015

Analytical Report for Work Order BA14017

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Bio-001 (Dry)						Sampled: 01/14/15 00:00 BA14017-01 (Biosolids)					
o-Xylene		ND	0.0050	0.00048	mg/kg	5	U5A1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
Styrene		ND	0.0050	0.00054	mg/kg	5	U5A1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
Bromoform		ND	0.0050	0.00064	mg/kg	5	U5A1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
Isopropylbenzene		ND	0.0050	0.00056	mg/kg	5	U5A1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
trans-1,4-Dichloro-2-butene		ND	0.0050	0.0012	mg/kg	5	U5A1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
Bromobenzene		ND	0.0050	0.00048	mg/kg	5	U5A1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
n-Propylbenzene		ND	0.0050	0.00068	mg/kg	5	U5A1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
1,1,2,2-Tetrachloroethane		ND	0.0050	0.00074	mg/kg	5	U5A1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
1,3,5-Trimethylbenzene		ND	0.0050	0.00075	mg/kg	5	U5A1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
2-Chlorotoluene		ND	0.0050	0.00058	mg/kg	5	U5A1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
1,2,3-Trichloropropane (123TCP)		ND	0.0050	0.0011	mg/kg	5	U5A1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
4-Chlorotoluene		ND	0.0050	0.00061	mg/kg	5	U5A1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
tert-Butylbenzene		ND	0.0050	0.00065	mg/kg	5	U5A1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
1,2,4-Trimethylbenzene		ND	0.0050	0.00066	mg/kg	5	U5A1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
sec-Butylbenzene		ND	0.0050	0.00062	mg/kg	5	U5A1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
p-Isopropyltoluene		ND	0.0050	0.00064	mg/kg	5	U5A1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
1,3-Dichlorobenzene		ND	0.0050	0.00074	mg/kg	5	U5A1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
1,4-Dichlorobenzene		ND	0.0050	0.00094	mg/kg	5	U5A1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
n-Butylbenzene		ND	0.0050	0.00077	mg/kg	5	U5A1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
1,2-Dichlorobenzene		ND	0.0050	0.00046	mg/kg	5	U5A1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)		ND	0.025	0.0019	mg/kg	5	U5A1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
1,2,4-Trichlorobenzene		ND	0.0050	0.00068	mg/kg	5	U5A1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
Hexachlorobutadiene		ND	0.0050	0.00082	mg/kg	5	U5A1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
Naphthalene		ND	0.0050	0.0015	mg/kg	5	U5A1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
1,2,3-Trichlorobenzene		ND	0.0050	0.00088	mg/kg	5	U5A1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
Xylenes		ND	0.0050		mg/kg	5	U5A1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
Surrogate: Dibromofluoromethane		107 %	70-130				U5A1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
Surrogate: Toluene-d8		97.2 %	70-130				U5A1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B
Surrogate: +-Bromofluorobenzene		87.3 %	70-130				U5A1901	GAB	1/19/15 9:00	1/19/15 12:36	EPA 8260B

Attachment K: Analytical Report of Untreated Influent



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California ELAP Certificate #1371

Malaga County Water District
 3580 S. Frank
 Fresno CA, 93725

Project: Malaga Sewer Plant
 Project Number: Yearly Influent Sludge
 Project Manager: Burt Siverling

Reported:
 01/14/2015

Analytical Report for Work Order AL16027

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Influent - Raw						Sampled: 12/16/14 13:00 AL16027-01 (Waste Water)					
Cyanide (total)		7.0	5.0	2.8	µg/L	1	U4L2207	JTN	12/23/14 7:20	12/23/14 13:53	SM4500CN-E
Antimony	J	0.0020	0.0050	0.0014	mg/L	1	U4L1722	DAR	12/18/14 10:50	12/23/14 10:28	EPA 200.7
Beryllium		ND	0.0010	0.00020	mg/L	1	U4L1722	DAR	12/18/14 10:50	12/23/14 10:28	EPA 200.7
Cadmium		0.0017	0.0010	0.00020	mg/L	1	U4L1722	DAR	12/18/14 10:50	12/23/14 10:28	EPA 200.7
Chromium		0.0081	0.0050	0.00091	mg/L	1	U4L1722	DAR	12/18/14 10:50	12/23/14 10:28	EPA 200.7
Copper		0.091	0.0050	0.00095	mg/L	1	U4L1722	DAR	12/18/14 10:50	12/23/14 10:28	EPA 200.7
Nickel		0.0059	0.0050	0.00051	mg/L	1	U4L1722	DAR	12/18/14 10:50	12/23/14 10:28	EPA 200.7
Silver	J	0.0016	0.0050	0.0011	mg/L	1	U4L1722	DAR	12/18/14 10:50	12/23/14 10:28	EPA 200.7
Zinc		0.47	0.0050	0.00080	mg/L	1	U4L1722	DAR	12/18/14 10:50	12/23/14 10:28	EPA 200.7
Arsenic		7.4	2.0	0.30	µg/L	1	U4L1716	JTN	12/18/14 6:54	12/18/14 18:31	EPA 200.8
Lead		6.4	2.0	0.057	µg/L	1	U4L1716	JTN	12/18/14 6:54	12/18/14 18:31	EPA 200.8
Selenium	J	1.3	2.0	0.34	µg/L	1	U4L1716	JTN	12/18/14 6:54	12/18/14 18:31	EPA 200.8
Thallium		ND	2.0	0.13	µg/L	1	U4L1716	JTN	12/18/14 6:54	12/18/14 18:31	EPA 200.8
4,4'-DDD		ND	0.050	0.0020	µg/L	1	U4L1804	DPV	12/18/14 8:57	12/18/14 20:49	EPA 608
4,4'-DDE		ND	0.050	0.0020	µg/L	1	U4L1804	DPV	12/18/14 8:57	12/18/14 20:49	EPA 608
4,4'-DDT		ND	0.050	0.0060	µg/L	1	U4L1804	DPV	12/18/14 8:57	12/18/14 20:49	EPA 608
Aldrin		ND	0.050	0.0020	µg/L	1	U4L1804	DPV	12/18/14 8:57	12/18/14 20:49	EPA 608
alpha-BHC		ND	0.050	0.0070	µg/L	1	U4L1804	DPV	12/18/14 8:57	12/18/14 20:49	EPA 608
alpha-Chlordane		ND	0.050	0.0020	µg/L	1	U4L1804	DPV	12/18/14 8:57	12/18/14 20:49	EPA 608
beta-BHC		ND	0.050	0.0030	µg/L	1	U4L1804	DPV	12/18/14 8:57	12/18/14 20:49	EPA 608
Chlordane (tech)		ND	0.10	0.0070	µg/L	1	U4L1804	DPV	12/18/14 8:57	12/18/14 20:49	EPA 608
delta-BHC		ND	0.050	0.0020	µg/L	1	U4L1804	DPV	12/18/14 8:57	12/18/14 20:49	EPA 608
Dieldrin		ND	0.050	0.0020	µg/L	1	U4L1804	DPV	12/18/14 8:57	12/18/14 20:49	EPA 608
Endosulfan I		ND	0.050	0.0040	µg/L	1	U4L1804	DPV	12/18/14 8:57	12/18/14 20:49	EPA 608
Endosulfan II		ND	0.050	0.0030	µg/L	1	U4L1804	DPV	12/18/14 8:57	12/18/14 20:49	EPA 608
Endosulfan sulfate		ND	0.050	0.0030	µg/L	1	U4L1804	DPV	12/18/14 8:57	12/18/14 20:49	EPA 608
Endrin		0.066	0.050	0.0050	µg/L	1	U4L1804	DPV	12/18/14 8:57	12/19/14 13:12	EPA 608
Endrin aldehyde		ND	0.050	0.0020	µg/L	1	U4L1804	DPV	12/18/14 8:57	12/18/14 20:49	EPA 608
Endrin ketone		ND	0.050	0.036	µg/L	1	U4L1804	DPV	12/18/14 8:57	12/18/14 20:49	EPA 608
gamma-BHC (Lindane)		ND	0.050	0.0020	µg/L	1	U4L1804	DPV	12/18/14 8:57	12/18/14 20:49	EPA 608
gamma-Chlordane		ND	0.050	0.0020	µg/L	1	U4L1804	DPV	12/18/14 8:57	12/18/14 20:49	EPA 608



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California ELAP Certificate #1371

Malaga County Water District
 3580 S. Frank
 Fresno CA, 93725

Project: Malaga Sewer Plant
 Project Number: Yearly Influent Sludge
 Project Manager: Burt Siverling

Reported:
 01/14/2015

Analytical Report for Work Order AL16027

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Influent - Raw											
Sampled: 12/16/14 13:00 AL16027-01 (Waste Water)											
Heptachlor		ND	0.050	0.0030	µg/L	1	U4L1804	DPV	12/18/14 8:57	12/18/14 20:49	EPA 608
Heptachlor epoxide		ND	0.050	0.0030	µg/L	1	U4L1804	DPV	12/18/14 8:57	12/18/14 20:49	EPA 608
Methoxychlor		ND	0.050	0.0070	µg/L	1	U4L1804	DPV	12/18/14 8:57	12/18/14 20:49	EPA 608
PCB-1016		ND	0.50	0.10	µg/L	1	U4L1804	DPV	12/18/14 8:57	12/18/14 20:49	EPA 608
PCB-1221		ND	0.50	0.10	µg/L	1	U4L1804	DPV	12/18/14 8:57	12/18/14 20:49	EPA 608
PCB-1232		ND	0.50	0.10	µg/L	1	U4L1804	DPV	12/18/14 8:57	12/18/14 20:49	EPA 608
PCB-1242		ND	0.50	0.10	µg/L	1	U4L1804	DPV	12/18/14 8:57	12/18/14 20:49	EPA 608
PCB-1248		ND	0.50	0.10	µg/L	1	U4L1804	DPV	12/18/14 8:57	12/18/14 20:49	EPA 608
PCB-1254		ND	0.50	0.10	µg/L	1	U4L1804	DPV	12/18/14 8:57	12/18/14 20:49	EPA 608
PCB-1260		ND	0.50	0.10	µg/L	1	U4L1804	DPV	12/18/14 8:57	12/18/14 20:49	EPA 608
Toxaphene		ND	0.50	0.015	µg/L	1	U4L1804	DPV	12/18/14 8:57	12/18/14 20:49	EPA 608
Surrogate: Decachlorobiphenyl (DCB)		42.0 %	28.2-144				U4L1804	DPV	12/18/14 8:57	12/18/14 20:49	EPA 608
Surrogate: Tetrachloro-meta-xylene (TMX)		58.1 %	34.4-113				U4L1804	DPV	12/18/14 8:57	12/18/14 20:49	EPA 608
N-Nitrosodimethylamine		ND	5.0	1.4	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
N-Nitrosomethylethylamine		ND	5.0	1.1	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
Methyl Methanesulfonate		ND	5.0	0.77	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
N-Nitrosodiethylamine		ND	5.0	0.60	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
Ethyl Methanesulfonate		ND	5.0	0.54	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
Phenol	J	1.4	5.0	0.63	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
Bis(2-chloroethyl)ether		ND	5.0	0.51	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
2-Chlorophenol		ND	5.0	0.69	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
1,3-Dichlorobenzene		ND	5.0	0.29	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
1,4-Dichlorobenzene		ND	5.0	0.59	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
1,2-Dichlorobenzene		ND	5.0	0.32	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
Benzyl alcohol	J	4.5	5.0	0.60	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
Bis(2-chloroisopropyl)ether		ND	5.0	0.46	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
2-Methylphenol		ND	5.0	0.93	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
Acetophenone		ND	5.0	0.46	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
N-Nitrosopyrrolidine		ND	5.0	0.68	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
Hexachloroethane		ND	5.0	0.98	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625



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California ELAP Certificate #1371

Malaga County Water District
 3580 S. Frank
 Fresno CA, 93725

Project: Malaga Sewer Plant
 Project Number: Yearly Influent Sludge
 Project Manager: Burt Siverling

Reported:
 01/14/2015

Analytical Report for Work Order AL16027

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Influent - Raw						Sampled: 12/16/14 13:00 AL16027-01 (Waste Water)					
o-Toluidine		ND	5.0	0.44	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
4-Methylphenol	J	3.3	5.0	1.1	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
N-Nitrosodi-n-propylamine		ND	5.0	0.36	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
Nitrobenzene		ND	5.0	0.66	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
N-Nitrosopiperidine		ND	5.0	0.61	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
Isophorone		ND	5.0	0.42	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
2-Nitrophenol		ND	5.0	1.3	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
2,4-Dimethylphenol		ND	5.0	1.2	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
Bis(2-chloroethoxy)methane		ND	5.0	0.28	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
2,4-Dichlorophenol		ND	5.0	0.79	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
1,2,4-Trichlorobenzene		ND	5.0	0.22	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
Naphthalene		ND	5.0	0.29	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
Saftrole		ND	5.0	0.39	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
2,6-Dichlorophenol		ND	5.0	0.59	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
Hexachlorobutadiene		ND	5.0	0.62	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
N-Nitrosodi-n-butylamine		ND	5.0	0.63	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
4-Chloro-3-methylphenol		ND	5.0	0.57	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
2-Methylnaphthalene		ND	5.0	0.35	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
Hexachlorocyclopentadiene		ND	5.0	0.83	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
2,4,5-Trichlorophenol		ND	5.0	2.3	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
2,4,6-Trichlorophenol		ND	5.0	2.5	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
2-Chloronaphthalene		ND	5.0	0.29	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
2-Nitroaniline		ND	5.0	0.88	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
1,4-Naphthoquinone		ND	5.0	0.094	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
Dimethyl phthalate		ND	5.0	0.27	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
Acenaphthylene		ND	5.0	0.27	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
1,3-Dinitrobenzene		ND	5.0	2.0	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
2,6-Dinitrotoluene		ND	5.0	1.0	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
3-Nitroaniline		ND	5.0	0.98	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625



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California ELAP Certificate #1371

Malaga County Water District
 3580 S. Frank
 Fresno CA, 93725

Project: Malaga Sewer Plant
 Project Number: Yearly Influent Sludge
 Project Manager: Burt Siverling

Reported:
 01/14/2015

Analytical Report for Work Order AL16027

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Influent - Raw						Sampled: 12/16/14 13:00 AL16027-01 (Waste Water)					
5-Nitro-o-toluidine		ND	5.0	0.44	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
Acenaphthene		ND	5.0	0.59	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
2,4-Dinitrophenol		ND	5.0	1.9	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
Pentachlorobenzene		ND	5.0	0.60	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
4-Nitrophenol		ND	5.0	1.6	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
1-Naphthylamine		ND	5.0	0.23	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
2,4-Dinitrotoluene		ND	5.0	0.70	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
2-Naphthylamine		ND	5.0	0.47	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
2,3,4,6-Tetrachlorophenol		ND	5.0	0.59	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
Fluorene		ND	5.0	0.50	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
Diethyl phthalate	J	0.85	5.0	0.32	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
4-Chlorophenyl phenyl ether		ND	5.0	0.45	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
Methapyrilene		ND	5.0	0.96	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
4-Nitroaniline		ND	5.0	1.6	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
4-Aminobiphenyl	J	1.1	5.0	0.62	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
Diphenylamine		ND	5.0	0.48	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
1,2-Diphenylhydrazine		ND	5.0	0.49	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
Benzidine		ND	5.0	1.2	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
N-Nitrosodiphenylamine		ND	5.0	0.58	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
4,6-Dinitro-2-methylphenol		ND	5.0	0.51	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
Phenacetin		ND	5.0	1.2	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
Pentachloronitrobenzene		ND	5.0	0.66	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
4-Bromophenyl phenyl ether		ND	5.0	0.52	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
Hexachlorobenzene		ND	5.0	0.42	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
Pentachlorophenol		ND	5.0	1.3	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
Phenanthrene		ND	5.0	0.26	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
Anthracene		ND	5.0	0.31	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
Di-n-butyl phthalate	J	1.3	5.0	0.65	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
Fluoranthene		ND	5.0	0.34	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625



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California ELAP Certificate #1371

Malaga County Water District
 3580 S. Frank
 Fresno CA, 93725

Project: Malaga Sewer Plant
 Project Number: Yearly Influent Sludge
 Project Manager: Burt Siverling

Reported:
 01/14/2015

Analytical Report for Work Order AL16027

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Influent - Raw						Sampled: 12/16/14 13:00 AL16027-01 (Waste Water)					
Pyrene	J	0.27	5.0	0.26	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
p-Dimethylaminoazobenzene		ND	5.0	1.1	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
3,3'-Dimethylbenzidine		ND	5.0	2.3	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
Butyl benzyl phthalate	J	1.3	5.0	0.76	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
2-Acetylaminofluorene		ND	5.0	1.1	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
Benzo (a) anthracene		ND	5.0	0.56	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
Chrysene		ND	5.0	0.25	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
Bis(2-ethylhexyl) phthalate		24	5.0	0.58	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
Di-n-octyl phthalate	J	2.1	5.0	0.36	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
7,12-Dimethylbenz(a)anthracene	J	1.2	5.0	0.44	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
Benzo (b) fluoranthene		ND	5.0	0.67	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
Benzo (k) fluoranthene		ND	5.0	0.70	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
Benzo (a) pyrene		ND	5.0	0.46	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
3,3'-Dichlorobenzidine		ND	5.0	1.1	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
3-Methylcholanthrene		ND	5.0	0.67	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
Indeno(1,2,3-cd)pyrene		ND	5.0	0.58	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
Dibenzo(a,h)anthracene		ND	5.0	0.39	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
Benzo(ghi)perylene		ND	5.0	0.36	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
O,O,O-Triethyl phosphorothioate		ND	5.0	0.80	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
Pronamide		ND	5.0	0.60	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
Surrogate: 2-Fluorophenol		24.1 %	22-92				U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
Surrogate: Phenol-d5		22.1 %	10-94				U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
Surrogate: Nitrobenzene-d5		41.5 %	41-110				U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
Surrogate: 2-Fluorobiphenyl		41.7 %	40-92				U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
Surrogate: 2,4,6-Tribromophenol		76.0 %	49-138				U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
Surrogate: d14-Terphenyl	S02	149 %	44-131				U4L1709	FFP	12/17/14 9:59	12/19/14 23:21	EPA 625
Chloromethane	J	0.23	0.50	0.16	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 17:22	EPA 624
Vinyl chloride		ND	0.50	0.16	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 17:22	EPA 624
Bromomethane		ND	1.0	0.32	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 17:22	EPA 624
Chloroethane		ND	0.50	0.16	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 17:22	EPA 624
Trichlorofluoromethane (CFC-11)		ND	0.50	0.13	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 17:22	EPA 624



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California ELAP Certificate #1371

Malaga County Water District
 3580 S. Frank
 Fresno CA, 93725

Project: Malaga Sewer Plant
 Project Number: Yearly Influent Sludge
 Project Manager: Burt Siverling

Reported:
 01/14/2015

Analytical Report for Work Order AL16027

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Influent - Raw										Sampled: 12/16/14 13:00 AL16027-01 (Waste Water)	
Trichlorotrifluoroethane (CFC-113)		ND	1.0	0.11	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 17:22	EPA 624
1,1-Dichloroethene		ND	0.50	0.14	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 17:22	EPA 624
Acrolein		ND	10	1.5	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 17:22	EPA 624
Methylene chloride		110	1.0	0.20	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 17:22	EPA 624
trans-1,2-Dichloroethene		ND	0.50	0.11	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 17:22	EPA 624
Methyl tert-Butyl Ether (MTBE)		ND	1.0	0.36	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 17:22	EPA 624
1,1-Dichloroethane		ND	0.50	0.12	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 17:22	EPA 624
Acrylonitrile		ND	5.0	2.9	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 17:22	EPA 624
cis-1,2-Dichloroethene		ND	0.50	0.15	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 17:22	EPA 624
Chloroform		4.4	0.50	0.14	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 17:22	EPA 624
Carbon tetrachloride		ND	0.50	0.16	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 17:22	EPA 624
1,1,1-Trichloroethane (TCA)		ND	0.50	0.16	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 17:22	EPA 624
1,1-Dichloropropene		ND	0.50	0.12	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 17:22	EPA 624
Benzene		ND	0.50	0.10	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 17:22	EPA 624
1,2-Dichloroethane (1,2-DCA)		ND	0.50	0.10	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 17:22	EPA 624
Trichloroethene (TCE)		ND	0.50	0.17	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 17:22	EPA 624
1,2-Dichloropropane		ND	0.50	0.10	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 17:22	EPA 624
Bromodichloromethane		ND	0.50	0.13	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 17:22	EPA 624
2-Chloroethylvinyl ether		ND	1.0	0.33	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 17:22	EPA 624
cis-1,3-Dichloropropene		ND	0.50	0.11	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 17:22	EPA 624
Toluene		1.9	0.50	0.27	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 17:22	EPA 624
trans-1,3-Dichloropropene		ND	0.50	0.14	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 17:22	EPA 624
Tetrachloroethene (PCE)		ND	0.50	0.12	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 17:22	EPA 624
1,1,2-Trichloroethane		ND	0.50	0.12	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 17:22	EPA 624
Dibromochloromethane		ND	0.50	0.11	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 17:22	EPA 624
1,2-Dibromoethane (EDB)		ND	0.50	0.22	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 17:22	EPA 624
Ethylbenzene		ND	0.50	0.10	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 17:22	EPA 624
Chlorobenzene		ND	0.50	0.10	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 17:22	EPA 624
1,1,1,2-Tetrachloroethane		ND	0.50	0.12	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 17:22	EPA 624

Attachment L: Analytical Report of Mixed Liquor (Sludge)



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California ELAP Certificate #1371

Malaga County Water District
 3580 S. Frank
 Fresno CA, 93725

Project: Malaga Sewer Plant
 Project Number: Yearly Influent Sludge
 Project Manager: Burt Siverling

Reported:
 01/14/2015

Analytical Report for Work Order AL16027

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Influent - Raw						Sampled: 12/16/14 13:00 AL16027-01 (Waste Water)					
m,p-Xylene		ND	1.0	0.20	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 17:22	EPA 624
o-Xylene		ND	0.50	0.10	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 17:22	EPA 624
Styrene		ND	0.50	0.10	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 17:22	EPA 624
Bromoform		ND	1.0	0.12	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 17:22	EPA 624
1,1,2,2-Tetrachloroethane		ND	1.0	0.21	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 17:22	EPA 624
1,2,3-Trichloropropane (123TCP)		ND	0.50	0.29	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 17:22	EPA 624
1,3-Dichlorobenzene		ND	0.50	0.040	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 17:22	EPA 624
1,4-Dichlorobenzene		ND	0.50	0.10	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 17:22	EPA 624
1,2-Dichlorobenzene		ND	0.50	0.12	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 17:22	EPA 624
1,2,4-Trichlorobenzene		ND	1.0	0.10	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 17:22	EPA 624
Hexachlorobutadiene		ND	1.0	0.10	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 17:22	EPA 624
Naphthalene		ND	0.50	0.15	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 17:22	EPA 624
Xylenes		ND	2.0		µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 17:22	EPA 624
Surrogate: 4-Bromofluorobenzene		98.7 %	70-130				U4L1609	DTH	12/16/14 13:30	12/17/14 17:22	EPA 624
Surrogate: Dibromofluoromethane		107 %	70-130				U4L1609	DTH	12/16/14 13:30	12/17/14 17:22	EPA 624
Surrogate: Toluene-d8		102 %	70-130				U4L1609	DTH	12/16/14 13:30	12/17/14 17:22	EPA 624
Mixed Liquor - Sludge						Sampled: 12/16/14 13:00 AL16027-02 (Waste Water)					
Cyanide (total)		12	10	5.5	µg/L	1	U4L2207	JTN	12/23/14 7:20	12/23/14 13:53	SM4500CN-E
Antimony		ND	0.010	0.0027	mg/L	1	U4L1722	DAR	12/18/14 10:50	12/23/14 10:37	EPA 200.7
Beryllium	J	0.00046	0.0020	0.00040	mg/L	1	U4L1722	DAR	12/18/14 10:50	12/23/14 10:37	EPA 200.7
Cadmium		0.011	0.0020	0.00041	mg/L	1	U4L1722	DAR	12/18/14 10:50	12/23/14 10:37	EPA 200.7
Chromium		0.078	0.010	0.0018	mg/L	1	U4L1722	DAR	12/18/14 10:50	12/23/14 10:37	EPA 200.7
Copper		0.92	0.010	0.0019	mg/L	1	U4L1722	DAR	12/18/14 10:50	12/23/14 10:37	EPA 200.7
Nickel		0.025	0.010	0.0010	mg/L	1	U4L1722	DAR	12/18/14 10:50	12/23/14 10:37	EPA 200.7
Silver	J	0.0023	0.010	0.0022	mg/L	1	U4L1722	DAR	12/18/14 10:50	12/23/14 10:37	EPA 200.7
Zinc		2.1	0.010	0.0016	mg/L	1	U4L1722	DAR	12/18/14 10:50	12/23/14 10:37	EPA 200.7
Arsenic		42	10	1.5	µg/L	1	U4L1716	JTN	12/18/14 6:54	12/18/14 18:37	EPA 200.8
Lead		80	10	0.29	µg/L	1	U4L1716	JTN	12/18/14 6:54	12/18/14 18:37	EPA 200.8
Selenium	J	5.9	10	1.7	µg/L	1	U4L1716	JTN	12/18/14 6:54	12/18/14 18:37	EPA 200.8
Thallium		ND	10	0.64	µg/L	1	U4L1716	JTN	12/18/14 6:54	12/18/14 18:37	EPA 200.8
4,4'-DDD		ND	0.050	0.0020	µg/L	1	U4L1804	DPV	12/18/14 8:57	12/18/14 21:03	EPA 608

Attachment L: Analytical Report of Mixed Liquor (Sludge)



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California ELAP Certificate #1371

Malaga County Water District
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Project: Malaga Sewer Plant
 Project Number: Yearly Influent Sludge
 Project Manager: Burt Siverling

Reported:
 01/14/2015

Analytical Report for Work Order AL16027

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Mixed Liquor - Sludge						Sampled: 12/16/14 13:00 AL16027-02 (Waste Water)					
4,4'-DDE		ND	0.050	0.0020	µg/L	1	U4L1804	DPV	12/18/14 8:57	12/18/14 21:03	EPA 608
4,4'-DDT		ND	0.050	0.0060	µg/L	1	U4L1804	DPV	12/18/14 8:57	12/18/14 21:03	EPA 608
Aldrin		ND	0.050	0.0020	µg/L	1	U4L1804	DPV	12/18/14 8:57	12/18/14 21:03	EPA 608
alpha-BHC		ND	0.050	0.0070	µg/L	1	U4L1804	DPV	12/18/14 8:57	12/18/14 21:03	EPA 608
alpha-Chlordane		ND	0.050	0.0020	µg/L	1	U4L1804	DPV	12/18/14 8:57	12/18/14 21:03	EPA 608
beta-BHC		ND	0.050	0.0030	µg/L	1	U4L1804	DPV	12/18/14 8:57	12/18/14 21:03	EPA 608
Chlordane (tech)		ND	0.10	0.0070	µg/L	1	U4L1804	DPV	12/18/14 8:57	12/18/14 21:03	EPA 608
delta-BHC		0.70	0.25	0.010	µg/L	5	U4L1804	DPV	12/18/14 8:57	12/19/14 13:26	EPA 608
Dieldrin		ND	0.050	0.0020	µg/L	1	U4L1804	DPV	12/18/14 8:57	12/18/14 21:03	EPA 608
Endosulfan I		ND	0.050	0.0040	µg/L	1	U4L1804	DPV	12/18/14 8:57	12/18/14 21:03	EPA 608
Endosulfan II		ND	0.050	0.0030	µg/L	1	U4L1804	DPV	12/18/14 8:57	12/18/14 21:03	EPA 608
Endosulfan sulfate		ND	0.050	0.0030	µg/L	1	U4L1804	DPV	12/18/14 8:57	12/18/14 21:03	EPA 608
Endrin		2.8	0.25	0.025	µg/L	5	U4L1804	DPV	12/18/14 8:57	12/19/14 13:26	EPA 608
Endrin aldehyde	J	0.047	0.050	0.0020	µg/L	1	U4L1804	DPV	12/18/14 8:57	12/18/14 21:03	EPA 608
Endrin ketone		ND	0.050	0.036	µg/L	1	U4L1804	DPV	12/18/14 8:57	12/18/14 21:03	EPA 608
gamma-BHC (Lindane)		ND	0.050	0.0020	µg/L	1	U4L1804	DPV	12/18/14 8:57	12/18/14 21:03	EPA 608
gamma-Chlordane		ND	0.050	0.0020	µg/L	1	U4L1804	DPV	12/18/14 8:57	12/18/14 21:03	EPA 608
Heptachlor		ND	0.050	0.0030	µg/L	1	U4L1804	DPV	12/18/14 8:57	12/18/14 21:03	EPA 608
Heptachlor epoxide		ND	0.050	0.0030	µg/L	1	U4L1804	DPV	12/18/14 8:57	12/18/14 21:03	EPA 608
Methoxychlor		ND	0.050	0.0070	µg/L	1	U4L1804	DPV	12/18/14 8:57	12/18/14 21:03	EPA 608
PCB-1016		ND	0.50	0.10	µg/L	1	U4L1804	DPV	12/18/14 8:57	12/18/14 21:03	EPA 608
PCB-1221		ND	0.50	0.10	µg/L	1	U4L1804	DPV	12/18/14 8:57	12/18/14 21:03	EPA 608
PCB-1232		ND	0.50	0.10	µg/L	1	U4L1804	DPV	12/18/14 8:57	12/18/14 21:03	EPA 608
PCB-1242		ND	0.50	0.10	µg/L	1	U4L1804	DPV	12/18/14 8:57	12/18/14 21:03	EPA 608
PCB-1248		ND	0.50	0.10	µg/L	1	U4L1804	DPV	12/18/14 8:57	12/18/14 21:03	EPA 608
PCB-1254		ND	0.50	0.10	µg/L	1	U4L1804	DPV	12/18/14 8:57	12/18/14 21:03	EPA 608
PCB-1260		ND	0.50	0.10	µg/L	1	U4L1804	DPV	12/18/14 8:57	12/18/14 21:03	EPA 608
Toxaphene		ND	0.50	0.015	µg/L	1	U4L1804	DPV	12/18/14 8:57	12/18/14 21:03	EPA 608
Surrogate: Decachlorobiphenyl (DCB)	S02	23.5 %	28.2-144				U4L1804	DPV	12/18/14 8:57	12/18/14 21:03	EPA 608
Surrogate: Tetrachloro-meta-xylene (TMX)	S02	15.4 %	34.4-113				U4L1804	DPV	12/18/14 8:57	12/18/14 21:03	EPA 608



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California ELAP Certificate #1371

Malaga County Water District
 3580 S. Frank
 Fresno CA, 93725

Project: Malaga Sewer Plant
 Project Number: Yearly Influent Sludge
 Project Manager: Burt Siverling

Reported:
 01/14/2015

Analytical Report for Work Order AL16027

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Mixed Liquor - Sludge						Sampled: 12/16/14 13:00 AL16027-02 (Waste Water)					
N-Nitrosodimethylamine		ND	5.0	1.4	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
N-Nitrosomethylethylamine		ND	5.0	1.1	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
Methyl Methanesulfonate		ND	5.0	0.77	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
N-Nitrosodiethylamine		ND	5.0	0.60	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
Ethyl Methanesulfonate		ND	5.0	0.54	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
Phenol		ND	5.0	0.63	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
Bis(2-chloroethyl)ether		ND	5.0	0.51	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
2-Chlorophenol		ND	5.0	0.69	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
1,3-Dichlorobenzene		ND	5.0	0.29	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
1,4-Dichlorobenzene		ND	5.0	0.59	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
1,2-Dichlorobenzene		ND	5.0	0.32	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
Benzyl alcohol		ND	5.0	0.60	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
Bis(2-chloroisopropyl)ether		ND	5.0	0.46	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
2-Methylphenol		ND	5.0	0.93	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
Acetophenone		ND	5.0	0.46	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
N-Nitrosopyrrolidine		ND	5.0	0.68	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
Hexachloroethane		ND	5.0	0.98	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
o-Toluidine		ND	5.0	0.44	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
4-Methylphenol		ND	5.0	1.1	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
N-Nitrosodi-n-propylamine		ND	5.0	0.36	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
Nitrobenzene		ND	5.0	0.66	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
N-Nitrosopiperidine		ND	5.0	0.61	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
Isophorone		ND	5.0	0.42	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
2-Nitrophenol		ND	5.0	1.3	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
2,4-Dimethylphenol		ND	5.0	1.2	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
Bis(2-chloroethoxy)methane		ND	5.0	0.28	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
2,4-Dichlorophenol		ND	5.0	0.79	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
1,2,4-Trichlorobenzene		ND	5.0	0.22	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
Naphthalene		ND	5.0	0.29	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625



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 Fresno CA, 93725

Project: Malaga Sewer Plant
 Project Number: Yearly Influent Sludge
 Project Manager: Burt Siverling

Reported:
 01/14/2015

Analytical Report for Work Order AL16027

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Sampled: 12/16/14 13:00 AL16027-02 (Waste Water)											
Mixed Liquor - Sludge											
Safrole		ND	5.0	0.39	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
2,6-Dichlorophenol		ND	5.0	0.59	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
Hexachlorobutadiene		ND	5.0	0.62	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
N-Nitrosodi-n-butylamine		ND	5.0	0.63	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
4-Chloro-3-methylphenol		ND	5.0	0.57	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
2-Methylnaphthalene		ND	5.0	0.35	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
Hexachlorocyclopentadiene		ND	5.0	0.83	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
2,4,5-Trichlorophenol		ND	5.0	2.3	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
2,4,6-Trichlorophenol		ND	5.0	2.5	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
2-Chloronaphthalene		ND	5.0	0.29	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
2-Nitroaniline		ND	5.0	0.88	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
1,4-Naphthoquinone		ND	5.0	0.094	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
Dimethyl phthalate		ND	5.0	0.27	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
Acenaphthylene		ND	5.0	0.27	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
1,3-Dinitrobenzene		ND	5.0	2.0	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
2,6-Dinitrotoluene		ND	5.0	1.0	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
3-Nitroaniline		ND	5.0	0.98	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
5-Nitro-o-toluidine		ND	5.0	0.44	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
Acenaphthene		ND	5.0	0.59	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
2,4-Dinitrophenol		ND	5.0	1.9	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
Pentachlorobenzene		ND	5.0	0.60	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
4-Nitrophenol		ND	5.0	1.6	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
1-Naphthylamine		ND	5.0	0.23	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
2,4-Dinitrotoluene		ND	5.0	0.70	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
2-Naphthylamine		ND	5.0	0.47	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
2,3,4,6-Tetrachlorophenol		ND	5.0	0.59	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
Fluorene		ND	5.0	0.50	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
Diethyl phthalate		ND	5.0	0.32	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
4-Chlorophenyl phenyl ether		ND	5.0	0.45	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625

Moore Twining Associates, Inc.
 Juliane Adams, Director of Analytical Chemistry

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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California ELAP Certificate #1371

Malaga County Water District
 3580 S. Frank
 Fresno CA, 93725

Project: Malaga Sewer Plant
 Project Number: Yearly Influent Sludge
 Project Manager: Burt Siverling

Reported:
 01/14/2015

Analytical Report for Work Order AL16027

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Mixed Liquor - Sludge											
Sampled: 12/16/14 13:00 AL16027-02 (Waste Water)											
Methapyrilene		ND	5.0	0.96	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
4-Nitroaniline		ND	5.0	1.6	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
4-Aminobiphenyl		ND	5.0	0.62	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
Diphenylamine		ND	5.0	0.48	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
1,2-Diphenylhydrazine		ND	5.0	0.49	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
Benzidine		ND	5.0	1.2	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
N-Nitrosodiphenylamine		ND	5.0	0.58	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
4,6-Dinitro-2-methylphenol		ND	5.0	0.51	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
Phenacetin		ND	5.0	1.2	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
Pentachloronitrobenzene		ND	5.0	0.66	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
4-Bromophenyl phenyl ether		ND	5.0	0.52	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
Hexachlorobenzene		ND	5.0	0.42	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
Pentachlorophenol		ND	5.0	1.3	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
Phenanthrene		ND	5.0	0.26	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
Anthracene		ND	5.0	0.31	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
Di-n-butyl phthalate		ND	5.0	0.65	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
Fluoranthene		ND	5.0	0.34	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
Pyrene		ND	5.0	0.26	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
p-Dimethylaminoazobenzene		ND	5.0	1.1	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
3,3'-Dimethylbenzidine		ND	5.0	2.3	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
Butyl benzyl phthalate		ND	5.0	0.76	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
2-Acetylaminofluorene		ND	5.0	1.1	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
Benzo (a) anthracene		ND	5.0	0.56	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
Chrysene		ND	5.0	0.25	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
Bis(2-ethylhexyl) phthalate		19	5.0	0.58	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
Di-n-octyl phthalate	J	2.5	5.0	0.36	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
7,12-Dimethylbenz(a)anthracene		ND	5.0	0.44	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
Benzo (b) fluoranthene		ND	5.0	0.67	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
Benzo (k) fluoranthene		ND	5.0	0.70	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625



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 Project Manager: Burt Siverling

Reported:
 01/14/2015

Analytical Report for Work Order AL16027

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Mixed Liquor - Sludge						Sampled: 12/16/14 13:00 AL16027-02 (Waste Water)					
Benzo (a) pyrene		ND	5.0	0.46	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
3,3'-Dichlorobenzidine		ND	5.0	1.1	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
3-Methylcholanthrene		ND	5.0	0.67	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
Indeno(1,2,3-cd)pyrene		ND	5.0	0.58	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
Dibenzo(a,h)anthracene		ND	5.0	0.39	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
Benzo(ghi)perylene	J	0.80	5.0	0.36	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
O,O,O-Triethyl phosphorothioate		ND	5.0	0.80	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
Pronamide		ND	5.0	0.60	µg/L	1	U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
Surrogate: 2-Fluorophenol		37.0 %	22-92				U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
Surrogate: Phenol-d5		31.2 %	10-94				U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
Surrogate: Nitrobenzene-d5		48.7 %	41-110				U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
Surrogate: 2-Fluorobiphenyl		46.0 %	40-92				U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
Surrogate: 2,4,6-Tribromophenol		61.6 %	49-138				U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
Surrogate: d14-Terphenyl		110 %	44-131				U4L1709	FFP	12/17/14 9:59	12/20/14 0:40	EPA 625
Chloromethane		ND	0.50	0.16	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 16:47	EPA 624
Vinyl chloride		ND	0.50	0.16	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 16:47	EPA 624
Bromomethane		ND	1.0	0.32	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 16:47	EPA 624
Chloroethane		ND	0.50	0.16	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 16:47	EPA 624
Trichlorofluoromethane (CFC-11)		ND	0.50	0.13	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 16:47	EPA 624
Trichlorotrifluoroethane (CFC-113)		ND	1.0	0.11	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 16:47	EPA 624
1,1-Dichloroethene		ND	0.50	0.14	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 16:47	EPA 624
Acrolein		ND	10	1.5	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 16:47	EPA 624
Methylene chloride		ND	1.0	0.20	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 16:47	EPA 624
trans-1,2-Dichloroethene		ND	0.50	0.11	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 16:47	EPA 624
Methyl tert-Butyl Ether (MTBE)		ND	1.0	0.36	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 16:47	EPA 624
1,1-Dichloroethane		ND	0.50	0.12	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 16:47	EPA 624
Acrylonitrile		ND	5.0	2.9	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 16:47	EPA 624
cis-1,2-Dichloroethene		ND	0.50	0.15	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 16:47	EPA 624
Chloroform	J	0.22	0.50	0.14	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 16:47	EPA 624
Carbon tetrachloride		ND	0.50	0.16	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 16:47	EPA 624
1,1,1-Trichloroethane (TCA)		ND	0.50	0.16	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 16:47	EPA 624



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California ELAP Certificate #1371

Malaga County Water District
 3580 S. Frank
 Fresno CA, 93725

Project: Malaga Sewer Plant
 Project Number: Yearly Influent Sludge
 Project Manager: Burt Siverling

Reported:
 01/14/2015

Analytical Report for Work Order AL16027

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Mixed Liquor - Sludge						Sampled: 12/16/14 13:00 AL16027-02 (Waste Water)					
1,1-Dichloropropene		ND	0.50	0.12	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 16:47	EPA 624
Benzene		ND	0.50	0.10	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 16:47	EPA 624
1,2-Dichloroethane (1,2-DCA)		ND	0.50	0.10	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 16:47	EPA 624
Trichloroethene (TCE)		ND	0.50	0.17	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 16:47	EPA 624
1,2-Dichloropropane		ND	0.50	0.10	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 16:47	EPA 624
Bromodichloromethane		ND	0.50	0.13	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 16:47	EPA 624
2-Chloroethylvinyl ether		ND	1.0	0.33	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 16:47	EPA 624
cis-1,3-Dichloropropene		ND	0.50	0.11	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 16:47	EPA 624
Toluene		ND	0.50	0.27	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 16:47	EPA 624
trans-1,3-Dichloropropene		ND	0.50	0.14	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 16:47	EPA 624
Tetrachloroethene (PCE)		ND	0.50	0.12	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 16:47	EPA 624
1,1,2-Trichloroethane		ND	0.50	0.12	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 16:47	EPA 624
Dibromochloromethane		ND	0.50	0.11	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 16:47	EPA 624
1,2-Dibromoethane (EDB)		ND	0.50	0.22	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 16:47	EPA 624
Ethylbenzene		ND	0.50	0.10	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 16:47	EPA 624
Chlorobenzene		ND	0.50	0.10	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 16:47	EPA 624
1,1,1,2-Tetrachloroethane		ND	0.50	0.12	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 16:47	EPA 624
m,p-Xylene		ND	1.0	0.20	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 16:47	EPA 624
o-Xylene		ND	0.50	0.10	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 16:47	EPA 624
Styrene		ND	0.50	0.10	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 16:47	EPA 624
Bromoform		ND	1.0	0.12	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 16:47	EPA 624
1,1,2,2-Tetrachloroethane		ND	1.0	0.21	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 16:47	EPA 624
1,2,3-Trichloropropane (123TCP)		ND	0.50	0.29	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 16:47	EPA 624
1,3-Dichlorobenzene		ND	0.50	0.040	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 16:47	EPA 624
1,4-Dichlorobenzene		ND	0.50	0.10	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 16:47	EPA 624
1,2-Dichlorobenzene		ND	0.50	0.12	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 16:47	EPA 624
1,2,4-Trichlorobenzene		ND	1.0	0.10	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 16:47	EPA 624
Hexachlorobutadiene		ND	1.0	0.10	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 16:47	EPA 624
Naphthalene		ND	0.50	0.15	µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 16:47	EPA 624

Moore Twining Associates, Inc.
 Juliane Adams, Director of Analytical Chemistry

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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California ELAP Certificate #1371

Malaga County Water District
 3580 S. Frank
 Fresno CA, 93725

Project: Malaga Sewer Plant
 Project Number: Yearly Influent Sludge
 Project Manager: Burt Siverling

Reported:
 01/14/2015

Analytical Report for Work Order AL16027

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
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Mixed Liquor - Sludge

Sampled: 12/16/14 13:00 AL16027-02 (Waste Water)

Xylenes		ND	2.0		µg/L	1	U4L1609	DTH	12/16/14 13:30	12/17/14 16:47	EPA 624
Surrogate: 4-Bromofluorobenzene		97.8 %	70-130				U4L1609	DTH	12/16/14 13:30	12/17/14 16:47	EPA 624
Surrogate: Dibromofluoromethane		106 %	70-130				U4L1609	DTH	12/16/14 13:30	12/17/14 16:47	EPA 624
Surrogate: Toluene-d8		103 %	70-130				U4L1609	DTH	12/16/14 13:30	12/17/14 16:47	EPA 624

Notes and Definitions

- S02 Surrogate recovery was affected by the matrix.
 - J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag). Same as DNQ - Detected, but Not Quantified.
 - BS1 Recovery for this analyte was biased high. Results were accepted based on duplicate results.
 - ug/L micrograms per liter (parts per billion concentration units)
 - mg/L milligrams per liter (parts per million concentration units)
 - mg/kg milligrams per kilogram (parts per million concentration units)
 - ND Analyte NOT DETECTED at or above the reporting limit
 - RPD Relative Percent Difference
- Analysis of pH, filtration, and residual chlorine is to take place immediately after sampling in the field.
 If the test was performed in the laboratory, the hold time was exceeded. (for aqueous matrices only)

Attachment M: Analytical Report of Secondary Effluent Minerals



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California ELAP Certificate #1371

Malaga County Water District
 3580 S. Frank
 Fresno CA, 93725

Project: Malaga Sewer Plant
 Project Number: Analytical Services
 Project Manager: Frank Cruz

Reported:
 04/22/2014

Analytical Report for Work Order AD09037

Analyte	Flag	Result	Reporting Limit	MDL	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Method
Final Eff. (Yearly)						Sampled: 04/09/14 09:30 AD09037-01 (Waste Water)					
Cation/Anion Balance (% Difference)		0.11			%	1	U4D2203	JAA	4/22/14 9:12	4/22/14 9:14	CALC
Chloride		37	4.0	0.037	mg/L	2	U4D0911	ETH	4/9/14 12:43	4/9/14 22:25	EPA 300.0
Orthophosphate as P		3.1	0.50	0.0056	mg/L	2	U4D0911	ETH	4/9/14 12:43	4/9/14 22:25	EPA 300.0
Nitrate as NO3		52	4.0	0.035	mg/L	2	U4D0911	ETH	4/9/14 12:43	4/9/14 22:25	EPA 300.0
Sulfate as SO4		130	4.0	0.019	mg/L	2	U4D0911	ETH	4/9/14 12:43	4/9/14 22:25	EPA 300.0
Total Dissolved Solids		510	10	8.1	mg/L	1	U4D1013	MVY	4/10/14 14:36	4/11/14 3:15	SM 2540C
Total Alkalinity as CaCO3		140	1.0	0.23	mg/L	1	U4D0914	CMG	4/9/14 17:42	4/9/14 22:09	SM2320B
Bicarbonate Alkalinity as HCO3		180	1.3	0.23	mg/L	1	U4D0914	CMG	4/9/14 17:42	4/9/14 22:09	SM2320B
Carbonate Alkalinity as CO3		ND	1.0	0.23	mg/L	1	U4D0914	CMG	4/9/14 17:42	4/9/14 22:09	SM2320B
Hydroxide Alkalinity as OH		ND	1.0	0.23	mg/L	1	U4D0914	CMG	4/9/14 17:42	4/9/14 22:09	SM2320B
Hardness (Total)		130	0.66		mg equiv. CaCO3/L	1	[CALC]	DAR	4/15/14 16:00	4/17/14 19:40	SM2340B
Boron		0.15	0.050	0.00083	mg/L	1	U4D1011	DAR	4/15/14 16:00	4/17/14 19:40	EPA 200.7
Calcium		31	0.10	0.0076	mg/L	1	U4D1011	DAR	4/15/14 16:00	4/17/14 19:40	EPA 200.7
Iron		0.10	0.10	0.017	mg/L	1	U4D1011	DAR	4/15/14 16:00	4/17/14 19:40	EPA 200.7
Magnesium		13	0.10	0.0091	mg/L	1	U4D1011	DAR	4/15/14 16:00	4/17/14 19:40	EPA 200.7
Manganese	J	0.0028	0.0050	0.00017	mg/L	1	U4D1011	DAR	4/15/14 16:00	4/17/14 19:40	EPA 200.7
Potassium		9.7	1.0	0.077	mg/L	1	U4D1011	DAR	4/15/14 16:00	4/17/14 19:40	EPA 200.7
Sodium		110	1.0	0.26	mg/L	1	U4D1011	DAR	4/15/14 16:00	4/17/14 19:40	EPA 200.7
Temperature (Client Supplied)		22			°C	1	U4D1118	NRe	4/9/14 9:30	4/14/14 11:43	-
pH (Client Supplied)		6.9			pH Units	1	U4D1118	NRe	4/9/14 9:30	4/14/14 11:43	-

Notes and Definitions

- MS3 Recovery for this analyte was biased low; associated blank spike recoveries are within range.
 - J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag). Same as DNQ - Detected, but Not Quantified.
 - ug/L micrograms per liter (parts per billion concentration units)
 - mg/L milligrams per liter (parts per million concentration units)
 - mg/kg milligrams per kilogram (parts per million concentration units)
 - ND Analyte NOT DETECTED at or above the reporting limit
 - RPD Relative Percent Difference
- Analysis of pH, filtration, and residual chlorine is to take place immediately after sampling in the field.
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