CITY OF SAN JOSE
CAPITAL OF SILICON VALLEY

Environmental Services

2017
ANNUAL
INDUSTRIAL USER
PRETREATMENT
COMPLIANCE REPORT
Including the Second Semi-Annual Industrial User Report

for the
SAN JOSÉ-SANTA CLARA REGIONAL WASTEWATER FACILITY

Tributary Agencies

Cities of:
San Jose, Santa Clara and Milpitas

Cupertino Sanitation District

West Valley Sanitation District
(Campbell, Los Gatos, Monte Sereno and Saratoga)

County Sanitation Districts 2-3

Burbank Sanitary District

Administered by the Environmental Services Department City of San José

2017

Annual Industrial User Pretreatment Compliance Report

including the Second Semi-Annual Industrial User Report

San José-Santa Clara Regional Wastewater Facility

Administered by the Environmental Services Department City of San José

CITY OF SAN JOSE
CAPITAL OF SILICON VALLEY

Environmental Services Department
San José-Santa Clara Regional Wastewater Facility
WATERSHED PROTECTION

CONTRIBUTING AGENCIES
CITY OF SAN JOSÉ
CITY OF SANTA CLARA
COUNTY SANITATION DIST. NO. 2 - 3
BURBANK SANITARY DISTRICT
CUPERTINO SANITARY DISTRICT
CITY OF CUPERTINO
CITY OF MILPITAS
WEST VALLEY SANITATION DISTRICT
CITIES OF CAMPBELL, LOS GATOS
MONTE SERENO AND SARATOGA

February 28, 2018

Mr. Bruce Wolfe
California Regional Water Quality Control Board
San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, CA 94612

SUBJECT: San José-Santa Clara Regional Wastewater Facility
2017 Annual and Second Semi-Annual Industrial User Pretreatment Compliance Report
NPDES Permit No. CA-0037842

Dear Mr. Wolfe:

Enclosed are the following reports: the 2017 Annual and Second Semi-Annual Industrial User Pretreatment Compliance Reports, which include laboratory data on influent, effluent, and sludge monitoring results and compliance tables.

The 2017 Annual and Second Semi-Annual Reports are submitted in accordance with Provision C. 4 of the Regional Board Order R2-2014-0034.

The City of San José (City) faces the challenge of preserving a portion of one of the most important estuaries in the United States, located directly adjacent to a complex urban community. As lead agency of a regional joint powers authority, the City operates the San José-Santa Clara Regional Wastewater Facility (legally and officially named the San Jose/Santa Clara Water Pollution Control Plant) and provides wastewater treatment to more than 1.4 million residents and 17,000 businesses, including many of the leading computer, solar, and electronics manufacturing companies that make up "Silicon Valley."

The San José-Santa Clara Regional Wastewater Facility (Wastewater Facility) has maintained compliance with all its NPDES discharge limits and is actively participating in the various pollutant specific efforts and ongoing TMDL processes. These efforts are highlighted in the 2017 Annual Self Monitoring and Pollution Prevention Reports found on the City's website under "Regulatory Reports."

The 2017 Annual Report contains a summary of facilities in significant noncompliance. Depending on the source of any regulation violated, federal regulations or local sewer use ordinances, these facilities are designated as Significant Non-compliance Federal and Significant Non-compliance Local. The definition used to determine significant noncompliance is listed in the "Definitions" section of this report and is consistent with the definition found in 40 CFR 403.8(f)(2)(viii)(A-H).

The 2017 Second Semi-Annual Report contains a listing of all Significant Industrial Users (SIUs) that had any violation of federal or local standards during the third and fourth quarters of 2017. The parameters violated, comments on corrective measures, and enforcement actions taken on these SIUs are given in this report.

At the end of the fourth quarter of 2017, the Wastewater Facility was monitoring 222 industries, of which 134 were Significant Industrial Users, and 88 were Non-Categorical Industries discharging under 25,000 gallons per day. Of the 134 Significant Industrial Users, 98 were discharging Categorical Industrial Users, 2 were Non-Significant Categorical Industrial Users, 20 were Zero Discharging Categorical Industrial Users, 3 were Zero Discharging Categorical Industrial Users with a non-categorical process discharging under 25,000 gallons per day, 1 was a Zero Discharging Categorical Industrial User with non-categorical process discharging over 25,000 gallons per day, and the remaining 10 were classified by the quantity of their discharge. The total number varies throughout the year as companies close or additional dischargers are identified. Table 1 is a summary of the compliance performance for all Significant Industrial Users.

Table 1: Compliance Performance of Significant Industrial Users in the Wastewater Facility Tributary Area

	3rd Quarter 2017		**4th Quarter 2017**	
Category	**Federal**	**Local**	**Federal**	**Local**
Consistent compliance	94.2%	88.4%	94.9%	90.6%
Inconsistent compliance	5.1%	10.9%	3.6%	8.7%
Significant Non-compliance	0.7%	0.7%	1.4%	0.7%

We continue to monitor all industrial dischargers and permitted commercial sources to ensure that all violations are identified and corrected as soon as possible. Appropriate enforcement actions are taken if violations persist, and additional compliance measures are pursued with all significant violators.

We look forward to working with you on the continuing process of adapting our programs based on new information and new opportunities. If you have any questions about these reports, please contact Casey Fitzgerald, Pretreatment Program Manager, at (408) 793-5378.

Sincerely,

FOR KERRIE ROMANOW
Director

Attachments

cc: Ameila Whitson, USEPA Region 9 (via email)
Russell Norman, SWRCB (via CIWQS)
Michael Chee, RWQCB Region 2 (via CIWQS)

SAN JOSÉ-SANTA CLARA REGIONAL WASTEWATER FACILITY

COVER SHEET

Report Date **February 28, 2018**

2017 ANNUAL PRETREATMENT REPORT

Period Covered by This Report **From 01/01/2017 to 12/31/2017**

Period Covered by Previous Report **From 01/01/2016 to 12/31/2016**

NPDES Permit Holder or
Sewer Authority Name: The Cities of San Jose and Santa Clara

Name of Wastewater Treatment Plant: San Jose/Santa Clara Water Pollution Control Plant

NPDES Permit Number: CA-0037842

Person to contact concerning information contained in this report:

Name: Casey Fitzgerald
Title: Pretreatment Program Manager
Mailing Address: 200 E Santa Clara St., 7th Floor
San Jose, CA 95113-1905
Telephone Number: (408) 793-5378

I have personally examined and am familiar with the information submitted in this document and attachments. Based upon my inquiry of those individuals immediately responsible for obtaining the information reported herein, I believe that the submitted information is true, accurate, and complete.

Napp Fukuda
Deputy Director
Environmental Services Department

2/28/18
Date

Introduction

Background

The San José-Santa Clara Regional Wastewater Facility (legally and officially named the San Jose/Santa Clara Water Pollution Control Plant) is jointly owned by the Cities of the San José and Santa Clara and was first constructed in 1956 with a capacity of 36 million gallons per day (MGD).

The San José-Santa Clara Regional Wastewater Facility (Wastewater Facility) serves a population of approximately 1.4 million residents and has a service area of over 300 square miles, covering most of the metropolitan areas of Santa Clara Valley. Within this service area are the Cities of San José (the City), Santa Clara, Milpitas, Cupertino, Campbell, Los Gatos, Monte Sereno, Saratoga, and adjacent unincorporated areas. The tributary agencies, listed above, discharge to the Wastewater Facility under several interagency agreements, including: Sewage Treatment Plant Agreement of 1959, Master Agreement of 1983, and four amendments to the Master Agreement dated 1985, 1995, 2006, and 2009 respectively.

The Wastewater Facility is the largest advanced wastewater treatment facility in California and provides tertiary treatment, which includes nitrification, filtration, and disinfection. Expansion of the Wastewater Facility capacity from 143 MGD to 167 MGD was completed in August 1986. On December 18, 1986, the San Francisco Regional Water Quality Control Regional Board (Regional Board) certified the Wastewater Facility Average Dry Weather Influent Flow (ADWIF) design capacity at 167 MGD. With a replacement value of approximately $2 billion, this state-of-the-art, computer controlled facility is one of the community's most valuable assets. The City of San Jose's Environmental Services Department is responsible for operating and maintaining the Wastewater Facility and the administration of the Pretreatment Program, as well as many of the pollution prevention programs included in the *2017 Annual Pollution Prevention Report*. The Wastewater Facility has had a pretreatment program since 1964. This program was originally submitted to the Environmental Protection Agency (EPA) on December 2, 1980, and approved on January 21, 1983.

Wastewater Discharge Requirements

The 2017 Average Dry Weather Effluent Flow (ADWEF) was 77.8 million gallons per day (MGD), well below the 120 MGD flow trigger for the nineteenth consecutive year.

The Regional Board adopted the Wastewater Facility's current National Pollutant Discharge Elimination System (NPDES) operating permit on September 10, 2014, and the Wastewater Facility has successfully maintained compliance with this permit's discharge limits.

The last Pretreatment Compliance Inspection (PCI) was conducted on June 27-29, 2016 by a contractor, Tetra Tech, representing the EPA. The 2016 PCI Summary Report is pending as of the date of this report.

Definitions

1 Accidental Discharge: Any discharge at a flow rate or concentration which could cause a violation of the discharge standards or any discharge of a non-routine, episodic nature, including but not limited to, an accidental spill or slug.

2 Administrative Citation: Administrative enforcement actions, which assess monetary penalties for non-compliance. Issued only in the City of San José.

3 Administrative Enforcement Remedies: Enforcement actions, which are taken at an administrative (non-judicial) level. Administrative Enforcement Remedies include: Administrative Citation, Compliance Agreement, Compliance Order, Administrative Hearing Order, and Termination of Service or Permit Revocation.

4 Administrative Hearing Order (Administrative Order): An order issued after an administrative hearing and may impose some or all of the following: an order to correct; administrative penalties; administrative costs.

5 Afterhours Inspection: A compliance inspection performed to assess the pretreatment activities that occur during off shift hours, evenings, and weekends. These inspections may include facilities that are operating multiple shifts, as well as facilities that have indicated that they are closed. These inspections are normally not scheduled.

6 Amalgam Separator: A device that employs filtration, settlement, centrifugation, or ion exchange to remove dental amalgam and its metal constituents from a dental office vacuum system before it discharges to the sanitary sewer; has been certified under the International Organization for Standardization's standard for amalgam separators as capable of removing a minimum of ninety-five percent of dental amalgam at flow rates comparable to the flow rate of the actual vacuum suction system in operation; and does not have any automatic flow bypass.

7 Amalgam Waste: Includes non- contact dental amalgam (dental amalgam scrap that has not been in contact with the patient); contact dental amalgam (including, but not limited to, extracted teeth containing amalgam); dental amalgam sludge captured by chair side traps, vacuum pump filters, screens, and other dental amalgam trapping devices; and used, leaking or unusable capsules containing dental amalgam.

8 Ammonia: A form of nitrogen which is chemically definable as NH_3.

9 Annual Inspection: A compliance inspection performed annually to update and verify the accuracy of information submitted in the permit application to review all onsite records, monitoring points, slug plans checklist and compliance issues. Annual inspections may be scheduled.

10 Audit Protocols: The procedures to be followed in performing flow and pollutant audit studies.

11 Average Concentration: The concentration of a pollutant in an industrial user's discharge that is calculated by adding the concentrations of the particular pollutant in all composite samples taken during a given time period, including but not limited to self monitoring samples, and dividing the total by the number of samples taken.

12 Batch Discharge: The discharge of wastewater resulting from an intermittent treatment process in which an identified amount of process wastewater is collected, treated to meet discharge standards, and released to the sanitary sewer system.

13 Best Management Practices: Schedules of activities, prohibitions of practices, maintenance procedures and other management practices to prevent or reduce the introduction of pollutants to the sanitary sewer system which have been determined by the director to be cost effective for particular industry groups, business types, or specific industrial processes.

14 Biochemical Oxygen Demand: The quantity of oxygen expressed in parts per million (ppm) by weight, utilized in the biochemical oxidation of organic matter under standard laboratory conditions for five (5) days at a temperature of twenty degrees (20) centigrade ($20^{o}C$).

15 Categorical Industrial User or CIU: A source performing any categorical process subject to Federal Pretreatment Standards, as described in 40 CFR 405 - 471 that has any connection to the sanitary sewer system.

16 Categorical Pretreatment Standard or Categorical Standard: Any regulation containing pollutant discharge limits promulgated by EPA that apply to specific categories of users and which appear in 40 CFR 405 - 471.

17 City: The City of San José, operator of the San José-Santa Clara Regional Wastewater Facility (Wastewater Facility) and administrator of the Wastewater Facility's pretreatment program called Source Control.

18 Civil Action: A legal action which may result in the issuance of an injunction, the assessment of monetary penalties by the court, and/or an award of costs and/or attorneys' fees to the agency.

19 Closure Inspection: An inspection conducted to verify that a facility is closed and all process chemistry and equipment have been removed.

20 Code of Federal Regulations or CFR: The Code of Federal Regulations as published by the office of the Federal Register National Archives and Records Administration. Whenever a reference is made to any portion of said code, or to any other federal regulation, such reference shall apply to all amendments and additions to such portion of said Code now or hereafter enacted.

21 Compliance Agreement: An agreement which documents non-compliance and includes actions required to be accomplished by specific dates. Compliance Agreements are developed during Compliance Meetings and both parties agree to terms.

22 Compliance Agreement Record: A documented list of agreed-upon tasks developed with authorized representatives of Source Control and an IU to bring the IU into compliance.

23 Compliance Inspection: An inspection to determine compliance status and to identify practices that may lead to non-compliance. All IUs are required to have compliance inspections each year regardless of compliance status. Source Control Compliance Inspections are the monthly, quarterly, semi-annual, and annual inspections assigned each year to facilities. Compliance inspections are normally not scheduled.

24 Compliance Meeting: A meeting with the IU to discuss the causes of non-compliance, corrective actions to achieve compliance, and timeframes for the implementation of corrective actions.

25 Compliance Order: A written notice served on an industrial user (IU) in San José containing the following information: date and location of violation; Code section violated and description of violation; action required to correct the violation; time period after which administrative penalties will begin to accrue if compliance with order is not achieved; and description of hearing and appeal process.

26 Compliance Schedule: A timetable for the implementation of corrective actions by an IU in order to achieve consistent compliance.

27 Compliance Status: The semi-annual quarterly review of a Significant industrial User's (SIU's) compliance status. Compliance status is either consistent compliance, inconsistent compliance, significant non-compliance, not sampled, or unknown.

28 Composite Sample: A sample that accurately represents the average pollutant concentration during a continuous time period.

A. A flow-proportional or time-proportional sample may be obtained manually or automatically, and discretely or continuously. For manual compositing, at least six (6) individual samples from each sample point shall be combined and mixed to obtain one (1) composite sample; flow-proportion may be obtained either by varying the time interval between each discrete sample or the volume of each discrete sample.

B. If multiple batches are discharged over a twenty-four-hour period, then one sample must be collected from each batch discharged in that twenty-four-hour period and composited into a single sample. A single sample from a batch representing one (1) or more production days will be considered a single composite sample.

29 Consistent Compliance: No more than one parameter in violation and that value was less than twice the most stringent limit. Additionally, within 30 days of the IU being notified of the violation, the IU has identified and corrected the cause of the violation and verified this through testing for that parameter. All pH chart recorder violations must have duration of equal to or less than fifteen minutes in any day, be greater than 2 S.U. or less than 12.5 S.U., and be outside all pH limits less than 66% of the days in operation within the compliance period.

30 Continuous Discharge: A discharge which occurs without interruption throughout the operating hours of the facility, except for infrequent shutdowns for maintenance, process changes, or other similar activities.

31 Criminal Action: An action filed in criminal court to secure some or all of the following: injunctive relief, fines, jail sentence, costs, and attorney's fees.

32 Critical User: A discharger whose wastewater contains priority pollutants, or who discharges any waste other than sanitary sewage which has the potential to cause interference in concentrations above those allowed in the SJMC Chapter 15.14 or who discharges in excess of one hundred thousand (100,000) gallons per day.

33 Dental Amalgam: An alloy of mercury with another metal, used by dentists to fill cavities in teeth.

34 Diluting Waters: Non-contact cooling water, boiler blowdown, domestic sewage, groundwater, storm water, surface drainage, reverse osmosis reject, or potable waters which are not part of an industrial process and which do not contain priority pollutants but are combined with industrial wastewater prior to the monitoring point for industrial wastewater discharge. Diluting waters also includes excess water used in rinse tanks when not in production.

35 Director: The Director of Environmental Services Department in the City of San José.

36 Discharger: Any person discharging wastewater into the sanitary sewer system.

37 Domestic Wastewater: Wastewater from private residences and wastewater from other premises resulting from the use of water for personal washing, sanitary purposes, or the elimination of human wastes and related matter.

38 Enforcement Inspection: An inspection conducted in response to a violation or to follow up an enforcement action.

39 Environmental Enforcement Data Management System (EEDMS): The database software used by Environmental Enforcement to track and document all inspection, enforcement, and sampling activities among other information about the facility and Enforcement Program.

40 Environmental Enforcement Procedures: The procedures contained in the Environmental Enforcement Procedures Manual documenting the specific steps taken by the Wastewater Facility to undertake enforcement actions per the *Source Control Enforcement Response Plan*.

41 Existing Source: Any source of discharge that is not a new source.

42 Fines: Monetary penalties imposed by the court or by the City for violation of discharge regulations.

43 Flow Audit Study: An investigation of water use and source reduction measures performed by or for an Industrial User, pursuant to an audit protocol adopted by the Director. The investigation includes the identification and evaluation of cost effective flow reduction measures applicable to the Industrial User.

44 Food Service Establishment: A user that prepares and/or sells food for consumption either on or off the premises or washes utensils or dishes on premises that may contribute grease to the sewer system, including, but not limited to, restaurants, sandwich shops, delicatessens, bakeries, cafeterias, markets, bed and breakfast inns, motels, hotels, meeting halls, caterers, retirement and nursing homes, or pizzerias. The term, as used in this chapter, does not refer to food stores or establishments that do not prepare food on premises and do not process food in a manner which may contribute grease to the sewer system. A food service establishment shall be deemed to be contributing grease to the sanitary sewer system where a sanitary sewer overflow has occurred due to grease, or there has been a loss of twenty-five percent or more of sewer line capacity due to grease, downstream of the food service establishment.

45 Garbage: Any wastes from the preparation, cooking, and dispensing of foods and from the handling, storage and sale of produce.

46 Grab Sample: A single discrete sample collected at a particular time and place that represents the composition of the wastestream only at that time and place.

47 Grease: Liquid or other waste containing floatable and/or dispersed grease, vegetable oil, petroleum oil, non-biodegradable cutting oil, or fat, oil or grease products of animal, vegetable, or mineral origin which is detectable and measurable using analytical test procedures established in the United States Code of Federal Regulations, 40 CFR 136.

48 Grease Control Device: Grease interceptor, grease trap, mechanical grease removal device or other device approved for use by the Director.

49 Grease Interceptor: A large tank installed underground and designed to collect and control solid-food wastes and floating grease from wastewater prior to discharge into the sanitary sewer collection system. Grease interceptors are normally installed outside the building and use gravity to separate grease from the wastewater as it moves from one compartment of the interceptor to the next.

50 Grease Trap: A device placed under or in close proximity to sinks or other fixtures likely to discharge grease in an attempt to separate, trap and hold oil and grease substances.

51 Inconsistent Compliance: More than one parameter in violation, or any one parameter in violation that exceeded twice the most stringent limit, and within 30 days of the date the IU is notified of the violation, the IU has been re-sampled, found to be in compliance, and does not fall within the significant non-compliance classification. All pH chart recorder violations must have duration greater than fifteen minutes in any day and be outside all pH limits less than 66% of the days in operation within the compliance period.

52 Industrial User: Any nonresidential user that discharges industrial wastes to the sanitary sewer system.

53 Industrial Wastes: The wastes from producing, manufacturing, and processing operations of every kind and nature.

54 Interference: A discharge which, alone or in conjunction with a discharge or discharges from other sources, both:

A. Inhibits or disrupts the processes or operation of the sanitary sewer system, including the Wastewater Facility, or causes or significantly contributes to a violation of any requirement of the National Pollutant Discharge Elimination System (NPDES) permit, which is a permit issued to the City pursuant to Section 402 of the Clean Water Act.

B. Prevents biosolids use or disposal by the Wastewater Facility in accordance with published regulations providing guidelines under Section 405 of the Clean Water Act or in regulations developed pursuant to the Solid Waste Disposal Act (SWDA), the Clean Water Act, the Toxic Substances Control Act, or more stringent state regulations (including those contained in any state biosolids management plan prepared pursuant to Title IV of SWDA) applicable to the method of disposal or use employed by the Wastewater Facility.

55 Low Flow Discharger: An Industrial User whose average process flow, as shown on the Discharger's Application to Discharge and as measured as a rolling six-month average, is less than one thousand (1,000) gallons per day.

56 Mass Audit Study (MAS): An investigation of pollution and source reduction measures performed by or for an Industrial User, pursuant to audit protocols adopted by the Director, to analyze the volume and concentration of nickel, copper, and or any other Priority Pollutant identified in regulations adopted by the Director in an Industrial User's process streams and discharge, and to identify the Maximum Feasible Reduction measures available to the Industrial User.

57 Mass Equivalent Concentration Limit (MECL): A mass-based discharge limit for copper and or nickel that is calculated using the projected annual mass of copper and or nickel and the projected annual process flow from the IU's discharge after the installation of applicable MFRs as indicated in the IU's MAS.

58 Maximum Allowable Concentration: The highest permissible concentration or other measure of pollutant magnitude taken at a specific point in time or period of time.

59 Maximum Feasible Reduction Measures (MFRs): All individual measures, and all functionally interdependent measures, of reducing the mass of specified pollutant(s) in an Industrial User's discharge, which the Director finds would be Cost Effective if installed by the Industrial User.

60 Mechanical Grease Removal Device: A power operated device or combination of devices using electrical equipment to heat, filter, siphon, skim, or otherwise separate and retain floating grease and solid food waste prior to the wastewater exiting the trap and entering the sanitary sewer collection system.

61 New Source:

A. Any building, structure, facility or installation from which there is (or may be) a discharge of pollutants, the construction of which commenced after the publication of proposed pretreatment standards under section 307(c) of the Clean Water Act that will be applicable to such source if such standards are thereafter promulgated in accordance with that section, provided that:

   i. The building, structure, facility, or installation is constructed at a site at which no other source is located; or

   ii. The building, structure, facility or installation totally replaces the process or production equipment that causes the discharge of pollutants at an existing source; or

   iii. The production or wastewater generating processes of the building, structure, facility or installation are substantially independent of an existing source at the same site. In determining whether these are substantially independent, factors such as the extent to which the new facility is integrated with the existing plant, and the extent to which the new facility is engaged in the same general type of activity as the existing source, should be considered.

B. Construction on a site at which an existing source is located results in a modification rather than a new source if the construction does not create a new building, structure, facility, or installation meeting the criteria of Section A.(ii) or (iii) above but otherwise alters, replaces, or adds to existing process or production equipment.

C. Construction of a new source as defined under this paragraph has commenced if the owner or operator has:

i. Begun, or caused to begin, as part of a continuous onsite construction program

- Any placement, assembly or installation of facilities or equipment; or
- Significant site preparation work, including clearing, excavating, or removal of existing buildings, structures, or facilities which is necessary for the placement, assembly, or installation of new source facilities or equipment; or

ii. Entered into a building contractual obligation for the purchase of facilities or equipment which are intended to be used in its operation within a reasonable time. Options to purchase or contracts which can be terminated or modified without substantial loss, and contracts for feasibility, engineering, and design studies do not constitute a contractual obligation under this paragraph.

62 Noncategorical: All major Industrial Users not subject to EPA categorical regulations or standards; subject to wastewater ordinance prohibitions and limitations.

63 Notice of Violation: An official notice that a violation of discharge regulations has occurred. A written response to the Notice of Violation identifying causes of the violation and corrective actions taken to prevent recurring violations is required within two weeks.

64 Not Scheduled (Compliance Status): No SMR or City sample was required to be collected during the particular quarter, or the permit coverage has been terminated, and thus no samples were scheduled.

65 Operator: Any person who owns, leases, operates, controls, or supervises a source as defined in this section.

66 Owner: Any person who owns private premises that contain a source as defined in this section.

67 Pass-Through: A discharge which exits the Wastewater Facility into waters of the United States in quantities or concentrations which alone, or in conjunction with a discharge or discharges from other sources, is a cause of a violation of any requirement of the Wastewater Facility's National Pollutant Discharge Elimination System permit, including an increase in the magnitude or duration of a violation.

68 Permit Inspection: Permit inspections are performed to verify accuracy of information submitted in a permit application and to assess whether there have been any significant changes to warrant a permit amendment or a new permit. Permit inspections are scheduled and include a review of all the information contained in the application.

69 pH: The logarithm of the reciprocal of the concentration of hydrogen ions in moles per liter of solution.

70 Pretreatment Requirements: Any substantive or procedural requirement related to pretreatment imposed on an Industrial User other than a pretreatment standard.

71 Pretreatment Standard: Prohibited discharge standards, categorical pretreatment standards, and local limits.

72 Priority Pollutants: All pollutants as defined by the "General Pretreatment Regulations" of the Environmental Protection Agency, found at 40 CFR 401 and 403.

73 Process Flow: The daily, twenty-four (24) hour, flow of wastewater from any kind or nature of production, manufacturing or processing operation, including industrial and commercial operations where water is used for the removal of any type of waste other than sanitary sewage. Process flow does not include diluting waters.

74 Reasonable Control Measures: Control technologies, best management practices, source control practices, and waste minimization procedures which prevent or reduce the introduction of pollutants to the sanitary sewer system, and are determined by the Director to be cost effective for particular industry groups, business types, or specific industrial processes.

75 Sampling Inspection: An inspection conducted when the primary objective is to sample the facility.

76 Sanitary Sewage: Water-carried wastes from residences, business buildings, institutions, and industrial establishments, excluding ground, surface and storm waters, sub-surface drainage and industrial waste.

77 Sanitary Sewer System: All sewers, treatment plants, and other facilities owned or operated by the city for carrying, collecting, pumping, treating, and disposing of sanitary sewage and industrial wastes.

78 Sewer: A pipe or conduit for carrying sewage.

79 Significant Change: Any change in an Industrial User's operation that results in any of the following:

A. A flow that exceeds the expected peak flow as shown in the sewage treatment plant connection allocation for the property on which the industrial user is located.

B. An increase or decrease in annual average process flow of twenty-five percent over the standard discharger's average process flow for the discharger's most immediate preceding twelve months.

C. An increase or decrease in annual average process flow that results in a change from low flow discharger to standard discharger or from standard discharger to low flow discharger.

D. An increase or decrease in annual average process flow that results in a change from non-significant industrial user to significant industrial user or from significant industrial user to non-significant industrial user.

E. An increase or decrease in annual production rate of twenty-five percent for any industrial user subject to production-based limits over the industrial user's production rate for the most immediate preceding twelve months.

F. Adding or deleting process discharge or sample points.

80 Significant Industrial User: All Industrial Users in one or more of the following categories:

A. An Industrial Users that has processes subject to Categorical Pretreatment Standards except as provided under Subsection C.; or

B. Any Industrial User that:

i. Discharges an average of 25,000 gallons per day or more of process wastewater to the sanitary system (excluding sanitary, noncontact cooling and boiler blowdown wastewater); or

ii. Contributes a process wastestream which makes up five (5) percent or more of the average dry weather hydraulic or organic capacity of the Wastewater Facility; or

iii. Is designated as such by the Director on the basis that the Industrial User has a reasonable potential for adversely affecting the Wastewater Facility's operation by violating any pretreatment standard or requirement.

C. The Director may determine that a Categorical Industrial User is not a Significant Industrial User (i.e. Non-significant Categorical Industrial User) if the Categorical Industrial User meets the following conditions:

i. Does not discharge more than 100 gallons per day of total categorical process wastewater;

ii. Has complied with all applicable Categorical Pretreatment Standards;

iii. Never discharges any untreated concentrated wastewater; and

iv. Submits annually a certification statement pursuant to 40 CFR 403.12(q).

81 Significant Noncompliance: Significant noncompliance (as defined in 40 CFR 403.8(f)(2)(viii), is a compliance status in which one or more of the following is found:

A. Chronic violations of wastewater discharge limits, defined here as those in which sixty-six percent (66%) or more of all the measurements taken during a six (6) month period exceed (by any magnitude) a numeric pretreatment standard or requirement, including instantaneous limits, as defined in 40 CFR 403.3(l).

B. Technical Review Criteria (TRC) violations, defined here as those in which thirty-three percent (33%) or more of all the measurements for each pollutant parameter taken during a six (6) month period equal or exceed the product of the numeric pretreatment standard or requirement including instantaneous limits, as defined by 40 CFR 403.3(l) multiplied by the applicable TRC (TRC = l.4 for BOD; TSS; fats, oil, and grease; and 1.2 for all other pollutants except pH).

C. Any other violation of a pretreatment standard or requirement as defined by 40 CFR 403.3(l) (daily maximum, long-term average, instantaneous limit, or narrative standard) that the Director determines has caused, alone or in combination with other Industrial Users, interference or pass through (including endangering the health of Wastewater Facility or Sewer personnel or the general public.)

D. Any discharge of a pollutant that has caused imminent endangerment to human health, welfare or to the environment or has resulted in the Wastewater Facility's exercise of its emergency authority to halt or prevent such a discharge.

E. Failure to meet, within ninety (90) days after the schedule date, a compliance schedule milestone contained in a discharge permit or enforcement order for starting construction, completing construction, or attaining final compliance.

F. Failure to provide, within forty five (45) days after the due date, required reports such as baseline monitoring reports, ninety (90) day compliance reports, periodic self-monitoring reports, and reports on compliance with compliance schedules.

G. Failure to accurately report noncompliance.

H. Any other violation or group of violations, which the Director determines, will adversely affect the operation or implementation of the local pretreatment program.

I. SNC status is designated as SNL, SNF, or SNF/SNL for compliance periods depending if violations in the compliance period were local, federal, or both. For pH chart recorder violations SNC is designated when violations meet at least one of the following criteria:

i. The IU caused corrosion to the sanitary sewer system,

ii. The violations have a common cause and the IU has failed to respond to the violations, or

iii. The number of days the pH chart recorder indicates the discharge is outside of permit limits 66% or more of the days in operation within the compliance period.

82 Slug Load or Slug Discharge: Any discharge of a non-routine, episodic nature, including but not limited to, an accidental spill or noncustomary batch discharge, which has reasonable potential to cause interference or pass-through or in any other way cause a violation of the provisions of this chapter or applicable permit conditions.

83 Source: Any building, structure, facility or installation from which there is or may be potential as determined by the Director to discharge pollutants above the local limits, state or federal limits or wastewater of such volume or strength that may cause interference, pass through or operational problems in the sanitary sewer system or at the Wastewater Facility.

84 Special Investigation Inspection: An inspection conducted to investigate a special matter, emergency spill, or a complaint.

85 Standard Discharger: Any Industrial Discharger who is not a low flow discharger.

86 Standard Methods: The procedures set forth in the Code of Federal Regulations, unless another method for the analysis of industrial wastewater has been approved, in writing, in advance of use of the procedure by the Director. All analyses shall be performed by a laboratory certified by the state for the specific pollutants and matrix to be analyzed, unless otherwise approved, in writing, by the Director prior to performance of a sample analysis.

87 Stormwater: The flow across any surface or in storm sewers resulting from rainfall.

88 Suspended Solids: Solids that either float on the surface of, or are in suspension in water, sewage, or other liquids and, which are removable by laboratory filtering.

89 Total Toxic Organics: Total Toxic Organics (TTOs) are the sum of the concentration for each of the regulated toxic organic compounds listed at 40 CFR 401.15 and, which are found in the discharge at a concentration greater than ten (10) micrograms per liter. Some categorical standards (40 CFR 405-471) list the specific toxic organic compounds that are to be included in the summation.

90 Tributary Agencies: The municipalities and sewer agencies in the service of area of the Wastewater Facility, including: Cities of San José, Santa Clara, Milpitas, Cupertino, Campbell, Los Gatos, Monte Sereno, and Saratoga; adjacent unincorporated areas; and Sanitary Sewer Districts for Burbank, County 2 and 3, Cupertino, and West Valley.

91 Tributary Agency Sewer Use Ordinances: The sewer use ordinances and municipal codes in the various tributary agencies discharging to the Wastewater Facility.

92 Trucked or Hauled Waste: Any waste discharged into the sanitary sewer system after being placed in a motorized vehicle for removal from the location where the waste was generated or produced.

93 Unknown (Compliance Status): When an Industrial User was scheduled to be sampled, but was not, the designation unknown is used.

94 Upset: An exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limitations because of factors beyond the reasonable control of the Industrial User. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.

95 Verbal Warning: A warning communicated to the Industrial User orally. The violation is usually slight or within the range of analytical testing error.

96 Warning Notice: A written notice that a minor violation has occurred. It directs the Industrial User to take action to correct the violation, and a written response is required within two weeks.

97 Wastewater Facility: The San José-Santa Clara Regional Wastewater Facility (legally and officially named the San Jose/Santa Clara Water Pollution Control Plant).

98 Zero Discharger: An industrial facility that does not discharge any wastewater except domestic wastewater to the sanitary sewer system.

Discussion of Upset, Interference, and Pass-Through Incidents

In 2017, no incidences of upset, interference, or pass through occurred from pollutants entering the San José-Santa Clara Regional Wastewater Facility.

2017 Influent, Effluent, and Biosolids Monitoring Results

Summary of 2017 Monitoring Results

A description of sampling procedures can be found in the Influent, Effluent, and Biosolids Monitoring Results section of the 2017 Second Semi-Annual Report. Appendix I presents the 2017 pretreatment program monitoring results in tabular form for the past five years (2013-2017). Appendix II contains graphical representations of the influent and effluent data.

Discussion of 2017 Influent Monitoring Results

The following analyses for priority pollutants were performed on the Wastewater Facility's influent during 2017:

Base Neutral Acids (BNA)

Bis(2-ethylhexyl)phthalate is a common plasticizer for polymeric materials. Bis(2-ethyl-hexyl)phthalate is used primarily as a plasticizer during polyvinyl chloride and polymer production and is released into wastewater after water contact with plastic materials. **Phenol** is used as a precursor in a number of industrial synthesis applications to produce resins, plastics, surfactants, detergents, emulsifiers, insecticides and medical antiseptics. Other uses of phenol include anesthetic applications in ointments, ear and nose drops and cold sore lotions; and as a slimicide for bacteria and fungi growth. **Diethyl phthalate** is ubiquitous in the environment based on its many applications. It is used as a plasticizer in many products and as a solvent for cosmetics, personal care products and insecticides. **Para Cresol (4-Cresol)** can be found in petroleum products, artificially produced from auto and diesel emissions, coal production wastewater, disinfectants, metal refining, and chemical manufacturing. P-cresol is not a listed CTR compound.

BNA compounds detected in this Wastewater Facility's influent for 2017:

Bis(2-ethylhexyl)phthalate (µg/L)	**Sample Date**
DNQ 3.44	February 27, 2017
DNQ 3.81	August 1, 2017

Phenol (µg/L)	**Sample Date**
6.2	February 27, 2017
12.8	August 1, 2017

Diethyl phthalate (µg/L)	**Sample Date**
ND	February 27, 2017
DNQ2.6	August 1, 2017

Para Cresol (µg/L)	Sample Date
45.5	February 27, 2017
58	August 1, 2017

Volatile Organic Compounds (VOCs)

Chloroform may enter the environment through its use as an industrial solvent, extracting reagent, cleaning agent and as a by-product from the chlorination of water, wastewater, and cooling water. Artificial or indirect sources of chloroform primarily originate as a chlorination by-product in water treatment, paper mills, and combustion of leaded gasoline. **Toluene** is used as a general purpose solvent, fuel additive, and chemical manufacturing constituent. Considerable amounts are discharged during the emissions, volatilization, storage, transport, and disposal of fuels and oils. **Ethylbenzene** is a colorless organic liquid with a sweet, gasoline-like odor. The greatest use of ethylbenzene is to make styrene, another organic liquid used as a building block for many plastics. It is also used as a solvent for coatings, and in making rubber and plastic wrap. Ethylbenzene is released to the air primarily from its use in gasoline.

Volatile organic compounds detected in this Wastewater Facility's influent for 2017:

Chloroform (µg/L)	Sample Date
ND	February 2, 2017
2.5	August 1, 2017

Toluene (µg/L)	Sample Date
ND	February 2, 2017
5.0	August 1, 2017

Ethylbenzene (µg/L)	Sample Date
DNQ1.9	February 2, 2017
DNQ0.81	August 1, 2017

Polychlorinated Biphenyls and Pesticides

All priority pollutant PCB aroclors and organochlorine pesticide organics were reported as non-detect for this Wastewater Facility's influent.

Cyanide

Cyanide monitoring of the Wastewater Facility's influent in 2017 resulted in resulted in a single data point greater than the RL (reporting limit) of 3.0µg/L. Caltest analyzed all Facility cyanide samples collected in August through December of 2017, and a cyanide level of 4.8µg/L was reported for the influent sample collected September 6, 2017. It should be noted that, although the sample tested negative for sulfide, Caltest added bismuth nitrate to the sample to remove sulfide interference, which may have

generated a false positive result. All other cyanide results were reported as DNQ with an RL (reporting limit) of 3.0µg/L, or non-detect at the method detection limit.

Priority Pollutant Metals

As shown in the attached Five Year Metals Report for 2017, priority pollutant metals' concentrations were characteristic of the influent levels typically received by this Wastewater Facility.

Discussion of 2017 Effluent Monitoring Results

The Wastewater Facility's NPDES Permit requirement for effluent monitoring of Priority Pollutant Organics as defined in **Attachment E**, **Section VII** was amended by the approval of **Order No. R2-2016-008: Alternate Monitoring and Reporting Requirements for Municipal Wastewater Dischargers for the Purpose of Adding Support to the San Francisco Bay Regional Monitoring Program.** The table presented below replaces Attachment E Section VII (Table E-5) Pretreatment and Biosolids Monitoring and amends the Wastewater Facility sampling frequency requirements of final effluent to once per Permit cycle.

<table>
<tr><th rowspan="2">Constituents</th><th colspan="3">Sampling Frequency</th><th colspan="2">Sample Type</th></tr>
<tr><th>Influent
INF-001 [1]</th><th>Effluent
EFF-001 [1]</th><th>Biosolids
BIO-001</th><th>Influent and Effluent</th><th>Biosolids[6]</th></tr>
<tr><td>VOC</td><td rowspan="2">Unchanged. Refer to individual permits.</td><td>Once per permit term</td><td rowspan="2">Unchanged. Refer to individual permits.</td><td colspan="2" rowspan="2">Unchanged. Refer to individual permits.</td></tr>
<tr><td>BNA</td><td>Once per permit term</td></tr>
<tr><td>...</td><td></td><td></td><td></td><td></td><td></td></tr>
</table>

The Order, effective April 2016, reduced the frequency of the Wastewater Facility's final effluent monitoring for priority pollutant organics to once per NPDES permit cycle. Therefore, no final effluent samples for priority pollutant organics were collected or analyzed in 2017.

Cyanide

Cyanide monitoring of the Wastewater Facility's effluent in 2017 resulted in all reported data as DNQ with an RL of 3.0µg/L, or non-detect at the method detection limit.

Priority Pollutant Metals

Priority pollutant metals for the current five year period were measured at concentrations characteristic of effluent typically discharged by this Wastewater Facility. All priority pollutant metals detected in the effluent were below NPDES permit limitations and applicable water quality objectives.

Discussion of 2017 Biosolids Monitoring Results

The collection and subsequent analyses of this Wastewater Facility's biosolids sampling was on August 1, 2017 with the detection of the following priority pollutants:

Base Neutral Acids (BNA)

Bis(2-ethylhexyl) phthalate (mg/Kg)	Sample Date
DNQ3.6	August 1, 2017

All other BNA compounds measured during this period for the Wastewater Facility's biosolids sample were reported as **non-detect** at the method detection limit.

Volatile Organic Compounds (VOCs)

All volatile organic compounds measured during this period for the Wastewater Facility's biosolids sampling were reported as **non-detect** at the method detection limit.

Polychlorinated Biphenyls-Aroclors

All PCB Aroclors measured during this period were all reported as **non-detect** at the method detection limit for the Wastewater Facility's biosolids sample.

Organochlorine Pesticides

Organochlorine pesticides analysis for the Wastewater Facility's biosolids sample resulted in two detected compounds. **4,4'-DDT (Dichlorodiphenyltrichloroethane)** was a commonly-used pesticide for insect control in the United States until it was banned by the Environmental Protection Agency (EPA) in 1972. **4,4'-DDE (Dichlorodiphenyldichloroethylene)** is a degradation byproduct of **DDT**, formed by dehydrohalogenation or loss of hydrogen chloride. 4,4'-DDE is highly toxic due to its high fat solubility and bioaccumulative nature.

4,4′-DDT (mg/Kg)	Sample Date
DNQ0.0079	August 1, 2017

4,4′-DDE (mg/Kg)	Sample Date
0.070	August 1, 2017

Priority Pollutant Metals

Priority pollutant metals for this period were measured at concentrations characteristic of typical biosolids production at this Wastewater Facility. No priority pollutant metals were detected in amounts that would adversely affect Class B biosolids disposal options.

Discussion of Five Year Influent and Effluent Trends (2013-2017)

Influent

- Arsenic concentrations remained consistent with a mean of 2.21µg/L, median of 2.16µg/L, and a standard deviation of 0.34µg/L.

- Cadmium concentrations were typically reported as DNQ values with an RL of 0.40µg/L. Cadmium's mean concentration was 0.20µg/L, median of 0.19µg/L, and standard deviation of 0.07µg/L.
- Chromium concentrations remained consistent with a mean of 5.60µg/L, median of 5.48µg/L, and standard deviation of 0.97µg/L.
- Copper concentrations remained relatively consistent with a mean of 150µg/L, median of 127µg/L, and standard deviation of 119µg/L The large relative standard deviation is attributed to one high spike concentration of 1060µg/L reported October 2, 2013. The anomalous result, a level 7-8 times the typical five year average copper concentration, was discussed in the Priority Pollutant Metals section under Influent Monitoring Results in the Wastewater Facility's 2013 annual report.
- Cyanide concentrations were generally reported as DNQ values with an RL of 3.0µg/L and MDL of 0.80µg/L. The mean concentration of influent cyanide was 1.4µg/L, median value of 1.4µg/L, standard deviation of 0.8µg/L. Cyanide concentrations greater than the RL value were reported on June 2, 2015 (4.2µg/L) and September 6, 2017 (4.8µg/L).
- Lead concentrations remained consistent with a mean of 3.74µg/L, an associate median of 2.83µg/L, and standard deviation of 4.2µg/L. The large relative standard deviation is attributed to a spike concentration of 35.2µg/L, reported on October 2, 2013.
- Mercury concentrations remained consistent with a mean of 0.115µg/L, a median of 0.112µg/L, and standard deviation of 0.031µg/L.
- Nickel concentrations remained consistent with a mean of 10.3µg/L, a median of 9.53µg/L and standard deviation of 3.1µg/L.
- Selenium concentrations remained consistent with a mean of 2.01µg/L, a median of 1.93µg/L, and standard deviation of 0.42µg/L.
- Silver concentrations remained consistent with a mean of 0.75µg/L, a median of 0.68µg/L, and standard deviation of 0.30µg/L.
- Zinc concentrations remained consistent with a mean of 186µg/L, a median of 182µg/L, and standard deviation of 21.8µg/L.

Effluent

- Arsenic concentrations remained consistent, with a mean of 1.17µg/L, median of 1.09µg/L and standard deviation of 0.26µg/L. The concentration range for arsenic was a minimum of 0.77µg/L and maximum of 1.88µg/L.
- Cadmium concentrations were reported as non-detect or DNQ values with an RL of 0.10µg/L and an MDL of 0.020µg/L. The mean concentration was 0.023µg/L with a median of 0.020µg/L and standard deviation of 0.010µg/L.
- Chromium concentrations remained consistent with a mean of 0.51µg/L, a median of 0.50µg/L and standard deviation of 0.083µg/L. The chromium concentration range was 0.36µg/L to 0.71µg/L.
- Copper concentrations remained consistent with a mean of 2.91µg/L, a median of 2.77µg/L and standard deviation of 0.82µg/L. The copper concentration range was 1.77µg/L to 5.52µg/L.
- Cyanide concentrations were generally reported as DNQ values or non-detect, with an RL of 3.0µg/L. The calculated mean cyanide concentration was 1.3µg/L with a median of 1.1µg/L and standard deviation of 0.5µg/L.
- Lead concentrations remained consistent with a mean of 0.20µg/L, median of 0.11µg/L, and a standard deviation of 0.33µg/L. The lead concentration range was 0.057µg/L to 2.62µg/L.

- Mercury concentrations remained consistent with a mean of 1.20ng/L, a median of 1.18ng/L, and a standard deviation of 0.26ng/L. The mercury concentration range was 0.73ng/L to 2.14ng/L.
- Nickel concentrations decreased slightly to a mean of 5.07µg/L, a median of 5.00µg/L, and standard deviation of 0.87µg/L. The nickel concentration range was 3.42µg/L to 7.76µg/L.
- Selenium concentrations have remained consistent with a mean of 0.49µg/L, median of 0.49µg/L, and standard deviation of 0.13µg/L. The selenium concentration range was 0.23µg/L to 0.91µg/L.
- Silver concentrations were generally reported as non-detect or DNQ values with an RL 0.10µg/L. The mean concentration was 0.013µg/L, with a median of 0.0092µg/L, and standard deviation of 0.010µg/L.
- Zinc concentrations remained consistent with a mean of 22.0µg/L, a median of 21.0µg/L, and a standard deviation of 4.0µg/L. The zinc concentration range was 16.0µg/L to 35.6µg/L.

Appendix I

5-years Influent and Effluent Data for Metals

San Jose/Santa Clara Water Pollution Control Plant

DATE	As (influent)	As (effluent)	Cd (influent)	Cd(effluent)	Cr (influent)	Cr (effluent)	Cu (influent)	Cu (effluent)	Pb (influent)	Pb (effluent)	Hg (influent)	Hg (effluent)	Ni (influent)	Ni (effluent)	Se (influent)	Se (effluent)	Ag (influent)	Ag (effluent)	Zn (influent)	Zn (effluent)
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
1/3/2013	2.12	1.04	DNQ0.25	ND	3.92	0.45	108	3.15	3.82	0.16	0.135	0.00163	8.57	4.52	1.62	0.55	0.58	DNQ0.016	162	22.2
2/4/2013	1.77	1.11	DNQ0.22	ND	3.78	0.42	117	4.85	2.67	0.17	0.103	0.00214	8.50	4.70	1.60	0.54	0.52	DNQ0.016	158	30.2
3/4/2013	1.64	1.10	DNQ0.18	DNQ0.024	4.05	0.59	104	5.52	7.47	0.28	n.a.	n.a.	20.0	6.15	n.a.	n.a.	0.62	DNQ0.036	153	28.3
3/5/2013	1.84	1.08	DNQ0.28	ND	5.05	0.58	117	5.16	5.33	2.62	0.0916	0.00176	10.1	7.76	1.91	0.50	0.79	DNQ0.009	172	27.9
3/6/2013	2.31	1.32	DNQ0.22	ND	4.95	0.62	114	5.30	4.79	0.78	n.a.	n.a.	10.3	7.19	n.a.	n.a.	0.65	DNQ0.038	174	30.8
4/5/2013	2.00	1.00	DNQ0.21	DNQ0.014	5.50	0.47	133	3.07	3.51	0.15	0.0951	0.00170	12.3	5.36	3.18	0.54	1.11	DNQ0.018	181	20.5
5/8/2013	2.25	0.94	DNQ0.23	ND	5.31	0.38	123	2.61	4.31	0.25	0.113	0.00137	10.4	5.07	1.37	0.41	0.66	DNQ0.007	176	19.0
6/3/2013	2.05	1.06	DNQ0.30	ND	5.17	0.39	153	2.36	3.76	DNQ0.12	0.0906	0.00117	10.8	6.39	1.63	0.52	0.99	DNQ0.021	213	20.0
7/2/2013	2.52	1.01	DNQ0.19	ND	6.63	0.40	121	2.12	3.69	0.35	0.136	0.00140	11.8	5.01	2.37	0.44	0.70	ND	206	20.6
8/8/2013	2.42	0.92	DNQ0.24	ND	6.16	0.60	97.7	2.35	2.91	0.34	0.0900	0.00120	13.0	5.88	1.80	0.39	0.68	DNQ0.069	162	21.0
9/4/2013	1.98	1.03	DNQ0.18	ND	5.26	0.52	116	1.99	3.40	0.62	0.132	0.00122	9.58	6.50	2.13	0.39	0.72	DNQ0.027	168	21.0
10/1/2013	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	144	2.30	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
10/2/2013	1.98	1.24	DNQ0.18	ND	5.08	0.47	1060	2.29	35.2	0.40	0.118	0.00114	9.84	4.00	1.98	0.23	0.61	DNQ0.008	261	20.0
10/3/2013	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	220	2.78	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
11/5/2013	2.09	0.84	DNQ0.26	ND	5.29	0.43	116	2.72	5.58	0.33	0.116	0.00119	8.86	3.70	1.58	0.45	0.95	DNQ0.010	181	20.5
12/5/2013	2.46	1.18	DNQ0.18	ND	5.92	0.48	102	2.28	2.18	0.13	0.0757	0.00110	9.10	4.50	1.66	0.56	1.37	DNQ0.022	144	21.6
1/7/2014	1.98	0.92	DNQ0.19	ND	5.02	0.51	110	3.52	1.95	0.10	0.0610	0.00138	6.84	3.42	2.32	0.61	0.68	DNQ0.017	168	19.6
2/3/2014	n.a.	1.05	n.a.	ND	n.a.	0.53	n.a.	4.08	n.a.	DNQ0.076	n.a.	n.a.	n.a.	5.68	n.a.	n.a.	n.a.	DNQ0.012	n.a.	23.0
2/5/2014	2.10	1.13	DNQ0.056	ND	6.61	0.48	120	2.76	2.29	DNQ0.087	0.104	0.00143	11.0	4.79	1.86	0.53	0.76	DNQ0.012	189	20.6
3/4/2014	2.39	1.20	DNQ0.14	ND	5.98	0.42	104	2.72	2.41	0.10	0.199	0.00123	10.4	5.53	1.83	0.58	1.24	DNQ0.012	173	17.1
4/4/2014	2.99	1.07	DNQ0.25	ND	9.05	0.46	187	2.27	4.95	0.38	0.0783	0.00106	13.3	5.08	1.77	0.50	1.05	ND	239	18.2
5/1/2014	2.39	1.42	DNQ0.26	ND	6.59	0.47	136	2.32	2.61	DNQ0.095	0.159	0.00170	9.53	4.38	2.27	0.64	0.97	ND	196	21.3
6/2/2014	2.09	0.90	DNQ0.22	ND	5.07	0.44	123	1.77	3.62	0.14	0.0927	0.00120	7.89	3.81	2.00	0.69	0.54	DNQ0.030	175	16.9
7/2/2014	2.17	1.26	DNQ0.19	ND	5.79	0.55	119	1.88	2.77	0.20	0.112	0.00090	10.2	5.53	2.38	0.51	0.52	ND	172	20.5
8/5/2014	2.57	1.05	DNQ0.16	ND	5.55	0.52	194	1.77	2.99	0.13	0.0710	0.00073	11.5	6.75	1.88	0.43	0.65	DNQ0.025	180	19.0
9/4/2014	2.31	1.38	DNQ0.16	ND	5.47	0.47	132	2.46	2.23	DNQ0.060	0.0640	0.00074	8.62	5.34	1.36	0.36	0.85	DNQ0.015	180	18.9
10/2/2014	2.04	1.09	DNQ0.17	ND	5.73	0.50	98.8	1.80	2.13	0.11	0.1060	0.00081	10.20	5.52	2.46	0.38	0.64	DNQ0.016	163	17.6
11/4/2014	2.92	1.01	DNQ0.16	ND	5.83	0.61	106	1.87	2.50	0.18	0.0556	0.00088	10.00	4.8	2.15	0.37	0.64	ND	186	17.9
12/3/2014	2.46	1.49	DNQ0.16	ND	7.55	0.68	97.5	2.52	3.47	DNQ0.093	0.1350	0.00101	12.10	5.01	1.90	0.44	1.20	DNQ0.017	186	22.1
1/7/2015	1.82	0.95	DNQ0.12	ND	5.31	0.43	112	2.09	2.75	0.11	0.134	0.00110	8.36	4.82	2.27	0.50	0.76	DNQ0.010	187	27.2
1/14/2015	n.a.	1.23	n.a.	ND	n.a.	0.48	n.a.	3.20	n.a.	0.29	n.a.	n.a.	n.a.	6.36	n.a.	n.a.	n.a.	DNQ0.009	n.a.	18.9
2/2/2015	2.02	1.10	DNQ0.093	ND	5.83	0.70	124	3.48	5.24	0.12	0.125	0.00111	8.59	4.99	2.76	0.65	0.64	DNQ0.023	203	21.4
3/3/2015	1.82	1.08	ND	ND	5.53	0.64	94.0	3.44	4.29	0.29	0.109	0.00131	9.91	6.47	2.36	0.55	0.79	DNQ0.015	165	16.0
4/2/2015	2.02	1.38	DNQ0.32	ND	5.68	0.58	125	3.36	2.79	0.14	0.0978	0.00109	8.56	5.09	2.70	0.70	0.57	DNQ0.011	183	19.3
5/4/2015	2.76	1.54	DNQ0.33	ND	5.48	0.52	136	2.68	3.42	DNQ0.083	0.0847	0.00122	15.2	6.35	2.12	0.58	0.80	DNQ0.015	173	19.6
6/1/2015	2.31	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	0.75	n.a.	n.a.	n.a.
6/2/2015	3.01	1.46	DNQ0.24	ND	5.66	0.50	137	2.94	2.76	0.12	0.106	0.00114	11.2	5.57	1.83	0.43	2.39	DNQ0.014	191	17.5
6/3/2015	2.95	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	0.97	n.a.	n.a.	n.a.
7/7/2015	2.45	1.62	DNQ0.34	DNQ0.038	8.03	0.56	162	2.43	2.64	DNQ0.092	0.120	0.00100	11.2	5.81	1.55	0.35	0.90	DNQ0.007	201	20.1
8/4/2015	2.54	1.79	DNQ0.27	ND	5.68	0.53	136	2.77	2.82	0.12	0.0826	0.00090	9.69	5.14	1.74	0.33	0.86	DNQ0.010	209	22.1
9/2/2015	2.99	1.60	DNQ0.30	ND	6.17	0.6	156	2.28	3.69	DNQ0.086	0.137	0.00080	10.9	6.00	2.12	0.41	0.76	DNQ0.006	215	28.2
10/7/2015	2.51	1.88	DNQ0.20	ND	5.85	0.67	149	2.46	2.64	DNQ0.081	0.0802	0.00086	9.01	5.16	1.68	0.41	0.94	DNQ0.007	175	20.8
11/2/2015	2.38	1.42	DNQ0.36	ND	5.97	0.64	130	2.49	4.21	0.10	0.100	0.00128	24.0	5.28	1.83	0.39	0.58	DNQ0.008	204	18.0

San Jose/Santa Clara Water Pollution Control Plant

DATE	As (influent)	As (effluent)	Cd (influent)	Cd(effluent)	Cr (influent)	Cr (effluent)	Cu (influent)	Cu (effluent)	Pb (influent)	Pb (effluent)	Hg (influent)	Hg (effluent)	Ni (influent)	Ni (effluent)	Se (influent)	Se (effluent)	Ag (influent)	Ag (effluent)	Zn (influent)	Zn (effluent)
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
12/3/2015	2.23	1.35	DNQ0.23	ND	4.24	0.53	166	3.11	2.94	0.27	0.0944	0.00175	16.6	5.40	1.63	0.40	0.57	DNQ0.017	181	20.3
1/6/2016	2.50	1.06	ND	ND	5.90	0.54	110	3.55	3.17	0.26	0.130	0.00124	10.1	4.33	1.96	0.54	1.31	DNQ0.015	177	17.1
2/1/2016	2.18	1.24	ND	ND	4.50	0.46	159	3.69	2.94	0.47	0.103	0.00109	8.92	5.56	1.79	0.56	DNQ0.40	DNQ0.008	173	26.3
3/3/2016	2.30	1.46	ND	ND	5.12	0.53	129	3.01	2.80	0.19	0.117	0.00145	8.78	5.04	1.94	0.57	0.88	DNQ0.006	192	27.0
4/6/2016	2.31	1.39	DNQ0.19	ND	5.14	0.45	127	2.69	3.11	0.26	0.155	0.00110	8.07	4.64	1.82	0.54	0.56	DNQ0.004	172	22.0
5/2/2016	2.41	1.51	DNQ0.22	ND	5.19	0.42	103	4.08	2.70	0.23	0.125	0.00120	8.16	5.02	1.78	0.52	0.66	DNQ0.006	160	18.7
6/1/2016	1.91	1.08	ND	ND	4.82	0.48	116	2.58	2.24	DNQ0.061	0.0912	0.00109	8.87	4.56	1.59	0.51	0.58	DNQ0.005	193	22.7
7/6/2016	2.23	1.13	ND	ND	6.68	0.48	272	2.16	3.68	DNQ0.078	0.167	0.00131	9.23	5.10	3.08	0.39	0.76	ND	230	24.9
8/1/2016	2.24	1.00	DNQ0.16	ND	4.63	0.50	146	2.51	2.42	DNQ0.070	0.109	0.00092	7.39	3.96	1.78	0.31	0.46	ND	205	24.0
9/1/2016	2.65	1.66	ND	ND	4.45	0.53	155	2.59	2.78	DNQ0.091	0.155	0.00133	7.88	3.95	1.43	0.31	0.70	ND	195	30.1
9/12/2016	n.a.	1.31	n.a.	ND	n.a.	0.50	n.a.	2.02	n.a.	DNQ0.067	n.a.	n.a.	n.a.	4.06	n.a.	n.a.	n.a.	ND	n.a.	23.1
9/14/2016	n.a.	1.71	n.a.	ND	n.a.	0.58	n.a.	2.23	n.a.	DNQ0.082	n.a.	n.a.	n.a.	4.51	n.a.	n.a.	n.a.	ND	n.a.	25.7
10/5/2016	1.81	1.39	DNQ0.17	ND	4.42	0.58	149	3.10	2.10	DNQ0.088	0.156	0.00108	8.26	4.83	1.76	0.34	0.77	DNQ0.010	188	35.6
11/1/2016	1.74	0.93	DNQ0.28	ND	4.86	0.44	237	2.97	2.52	DNQ0.070	0.104	0.00109	8.14	4.43	1.31	0.29	1.22	DNQ0.017	205	26.9
12/1/2016	1.72	1.07	DNQ0.26	ND	5.73	0.48	169	3.69	2.21	DNQ0.089	0.144	0.00118	8.38	4.89	1.69	0.35	0.76	DNQ0.007	194	29.0
1/4/2017	1.91	0.98	DNQ0.13	ND	5.84	0.36	165	2.80	2.19	DNQ0.090	0.185	0.00113	8.28	4.75	1.50	0.37	0.59	ND	162	19.8
2/2/2017	1.88	1.14	ND	ND	5.07	0.40	139	2.17	2.24	DNQ0.077	0.112	0.00124	8.54	4.60	2.58	0.78	0.44	ND	163	24.6
3/7/2017	2.14	0.96	DNQ0.14	ND	4.61	0.39	170	3.84	5.40	0.13	0.095	0.00093	8.02	4.64	2.76	0.91	0.44	ND	153	22.9
4/3/2017	2.08	0.78	DNQ0.16	ND	5.22	0.44	124	3.05	2.19	DNQ0.090	0.0537	0.00116	14.1	5.92	2.98	0.66	DNQ0.33	ND	172	22.1
4/30/2017	1.54	n.a.	DNQ0.12	n.a.	5.40	n.a.	104	n.a.	2.75	n.a.	n.a.	n.a.	7.72	n.a.	n.a.	n.a.	0.40	n.a.	189	n.a.
5/1/2017	2.02	0.92	DNQ0.28	ND	6.6	0.41	126	3.85	2.50	0.11	0.130	0.00119	19.4	4.94	2.24	0.62	0.51	ND	220	17.6
5/2/2017	2.28	n.a.	DNQ0.20	n.a.	7.52	n.a.	145	n.a.	3.14	n.a.	n.a.	n.a.	9.49	n.a.	n.a.	n.a.	0.66	n.a.	223	n.a.
6/1/2017	1.61	0.89	DNQ0.15	ND	6.85	0.54	171	3.36	7.51	0.11	0.136	0.00135	9.53	4.72	2.23	0.60	0.55	ND	194	23.4
7/6/2017	2.09	0.83	DNQ0.22	ND	7.07	0.71	155	2.90	2.80	DNQ0.067	0.111	0.00134	9.52	4.65	2.08	0.48	0.55	ND	208	19.1
8/1/2017	2.15	0.88	DNQ0.23	ND	5.38	0.56	127	3.26	3.04	DNQ0.096	0.154	0.00118	10.7	4.44	2.26	0.43	0.67	ND	189	21.0
9/6/2017	1.95	0.92	DNQ0.17	DNQ0.026	4.76	0.58	111	3.45	2.68	DNQ0.077	0.123	0.00134	7.58	4.36	2.16	0.44	0.50	ND	197	21.5
10/3/2017	2.39	0.77	DNQ0.17	ND	4.94	0.44	125	2.94	3.00	DNQ0.057	0.165	0.00116	7.01	3.42	1.95	0.38	0.76	ND	180	22.8
11/1/2017	2.15	0.96	DNQ0.14	ND	6.69	0.46	178	3.05	2.84	DNQ0.065	0.142	0.00119	9.17	4.36	2.31	0.44	0.71	ND	207	22.5
12/4/2017	1.98	1.04	DNQ0.17	ND	5.21	0.39	108	3.20	1.86	DNQ0.065	0.107	0.00113	8.63	4.28	2.17	0.60	0.51	ND	169	18.4

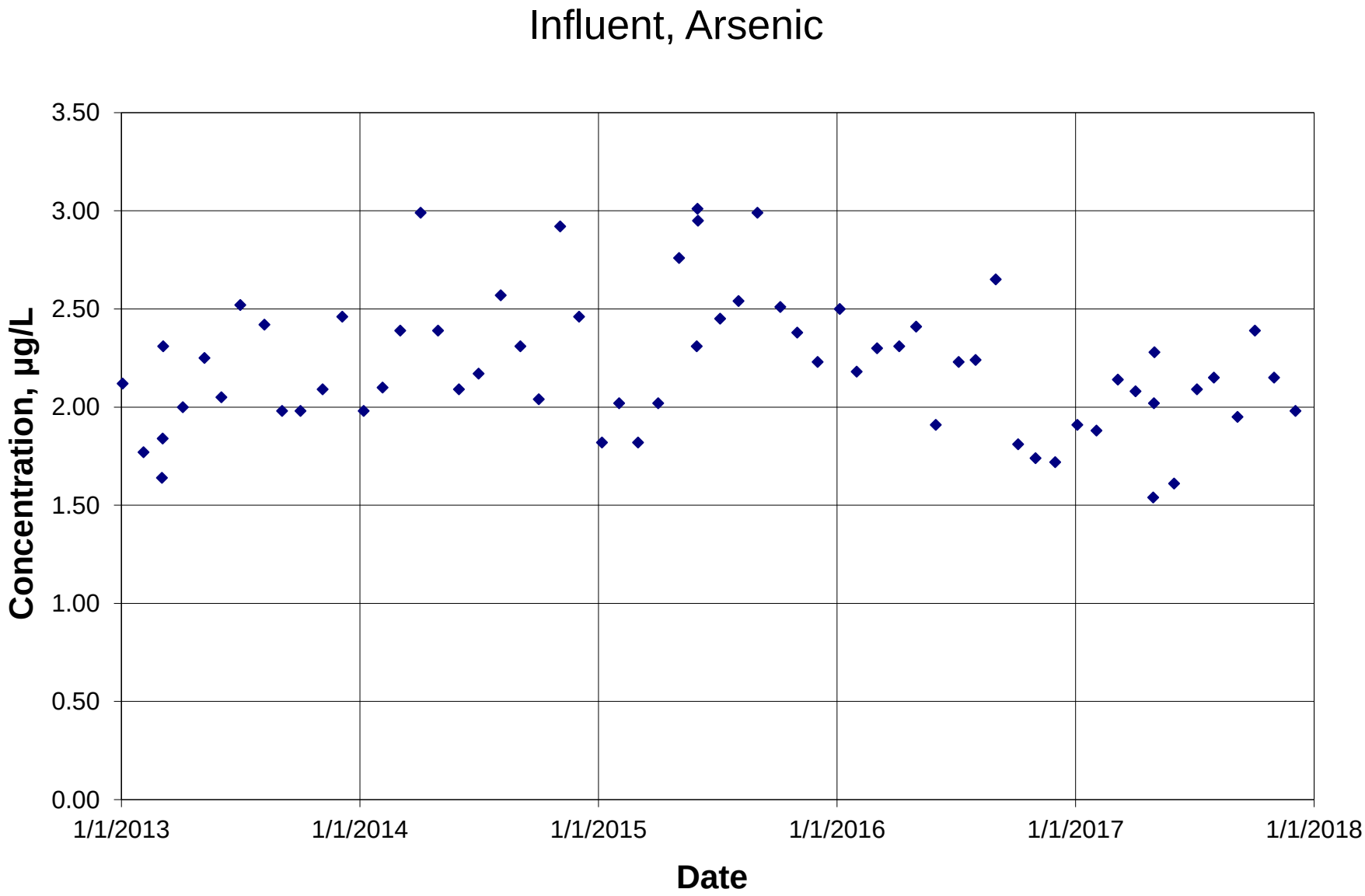
San Jose/Santa Clara Water Pollution Control Plant

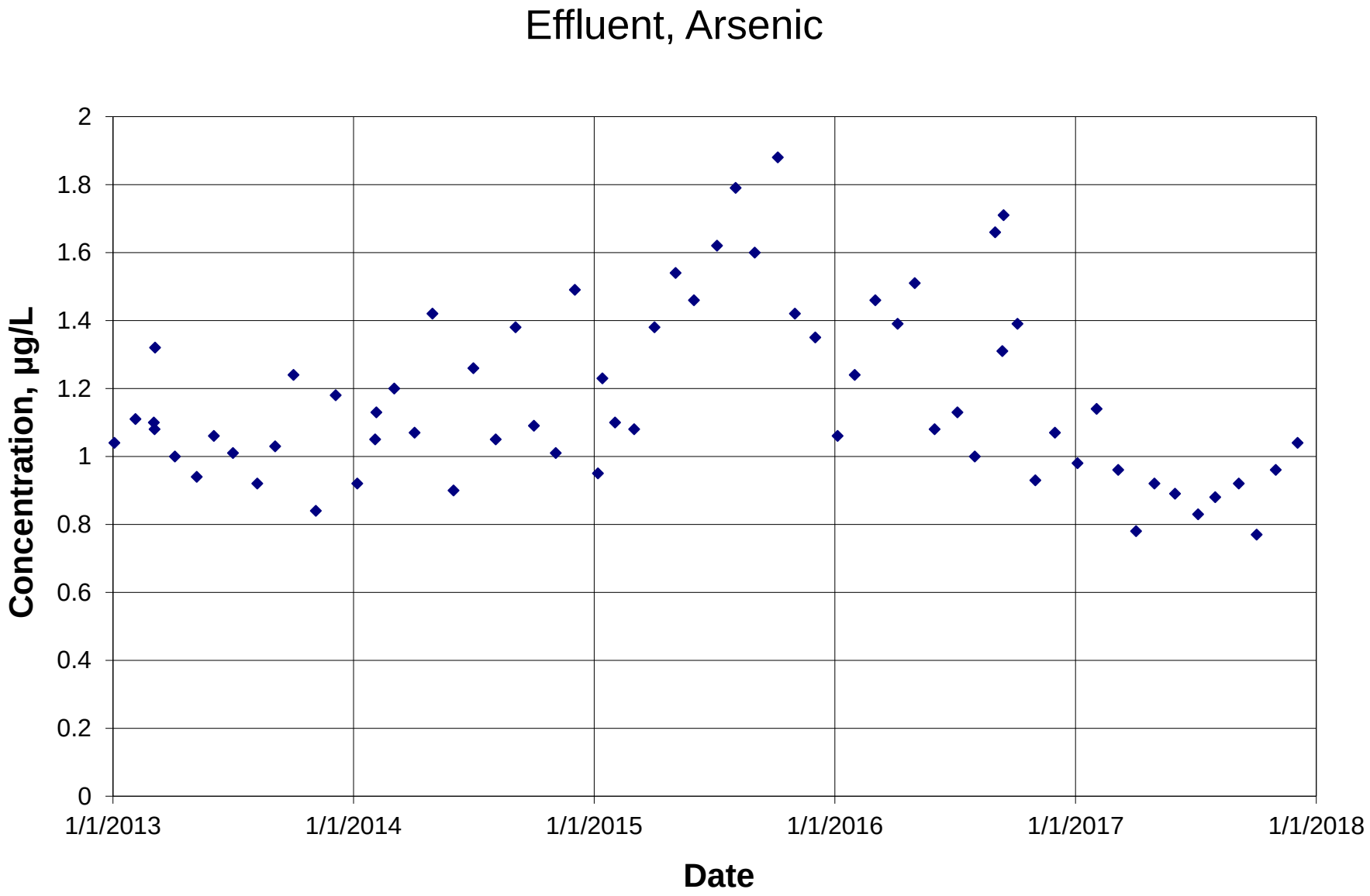
Date	Influent	Effluent
	µg/L	µg/L
1/3/2013	DNQ0.4	DNQ2.1
2/4/2013	DNQ0.4	DNQ1.6
3/5/2013	ND	DNQ0.6
4/5/2013	DNQ0.8	DNQ1.8
5/8/2013	ND	DNQ1.5
6/3/2013	DNQ0.5	DNQ1.8
7/2/2013	ND	DNQ1.7
8/8/2013	DNQ1.2	DNQ2.1
9/4/2013	DNQ0.6	DNQ2.0
10/2/2013	ND	DNQ0.9
11/5/2013	ND	DNQ1.1
12/5/2013	DNQ1.6	DNQ1.8
1/7/2014	ND	DNQ1.9
2/5/2014	DNQ1.2	DNQ2.1
3/4/2014	DNQ1.8	DNQ2.2
4/4/2014	DNQ1.6	DNQ1.4
5/1/2014	DNQ1.5	DNQ1.6
6/2/2014	DNQ1.7	DNQ2.0
7/2/2014	DNQ1.7	DNQ2.1
8/5/2014	DNQ2.2	DNQ2.0
9/4/2014	DNQ1.6	DNQ2.4
10/2/2014	DNQ0.7	DNQ1.9
11/4/2014	DNQ0.9	DNQ1.3
12/3/2014	DNQ2.2	n.a.
12/22/2014	DNQ1.2	DNQ0.8
1/7/2015	DNQ1.5	DNQ0.9
2/2/2015	DNQ1.2	DNQ0.7
3/3/2015	DNQ1.5	DNQ1.2
4/2/2015	DNQ1.8	DNQ0.96
5/4/2015	DNQ2.1	DNQ1.1
6/2/2015	4.20	DNQ1.1
6/11/2015	DNQ1.4	DNQ1.0

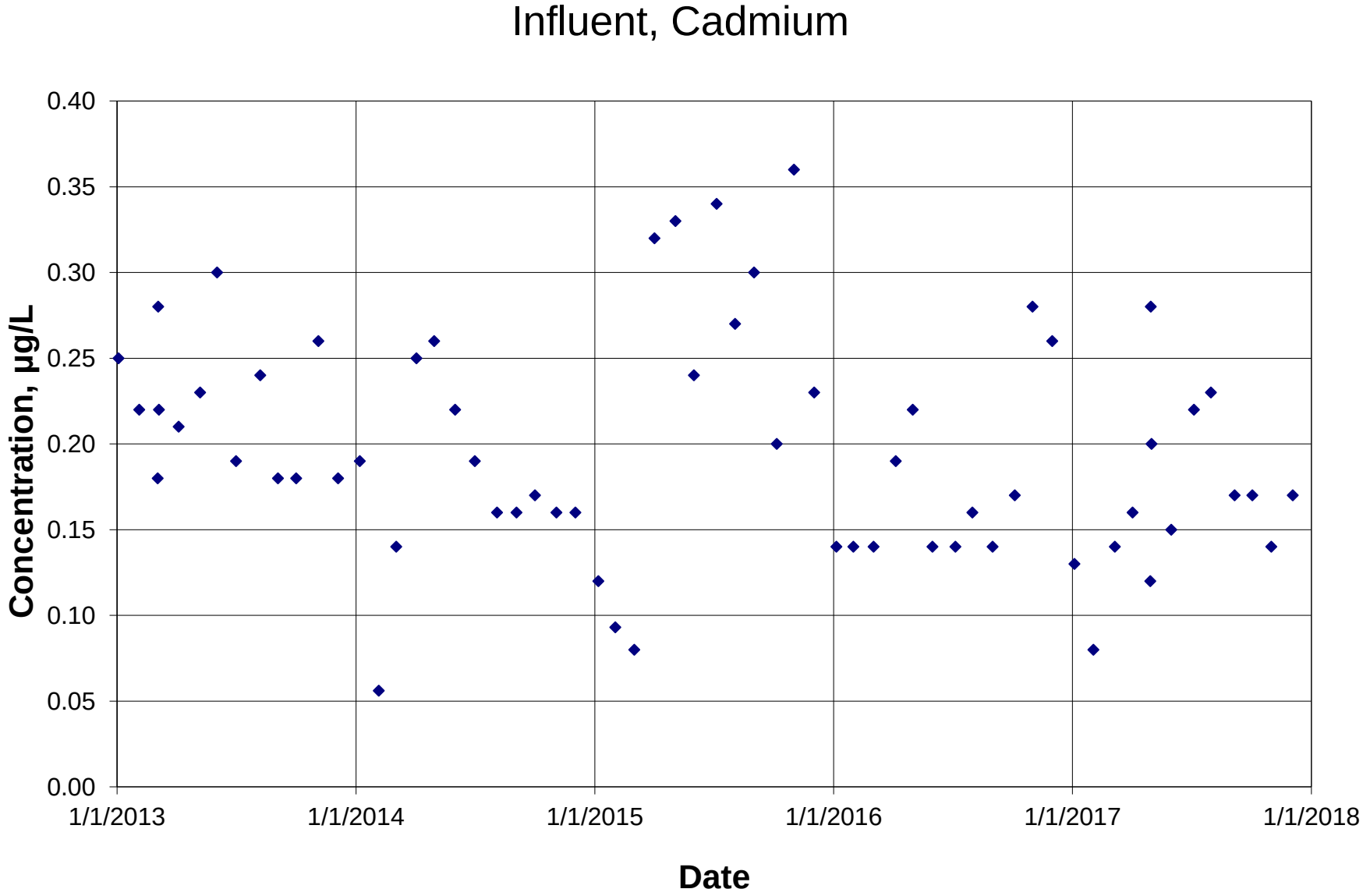
Date	Influent	Effluent
	µg/L	µg/L
7/7/2015	DNQ1.4	DNQ1.2
8/4/2015	DNQ1.7	DNQ0.91
9/2/2015	DNQ1.0	DNQ1.9
10/7/2015	DNQ2.1	DNQ1.0
11/2/2015	DNQ2.3	DNQ1.5
12/3/2015	DNQ1.2	DNQ0.36
1/6/2016	DNQ1.5	DNQ1.0
2/1/2016	DNQ1.3	DNQ0.54
3/3/2016	DNQ1.4	DNQ1.1
4/6/2016	DNQ1.7	DNQ1.1
5/2/2016	DNQ1.8	DNQ1.1
6/1/2016	DNQ1.7	DNQ1.2
7/6/2016	DNQ1.6	DNQ1.1
8/1/2016	DNQ2.0	DNQ0.97
9/1/2016	DNQ1.1	DNQ1.1
10/5/2016	DNQ2.2	DNQ1.1
11/1/2016	DNQ2.0	DNQ1.1
12/1/2016	ND	ND
1/4/2017	ND	ND
2/2/2017	DNQ1.0	ND
3/7/2017	DNQ1.2	DNQ0.86
4/3/2017	DNQ1.3	ND
5/1/2017	DNQ1.4	ND
6/1/2017	DNQ1.7	ND
7/6/2017	DNQ1.8	DNQ1.0
8/29/2017	DNQ0.92	DNQ1.3
9/12/2017	4.80	DNQ1.9
10/10/2017	DNQ1.5	DNQ1.8
11/1/2017	DNQ1.2	ND
12/4/2017	DNQ1.5	ND

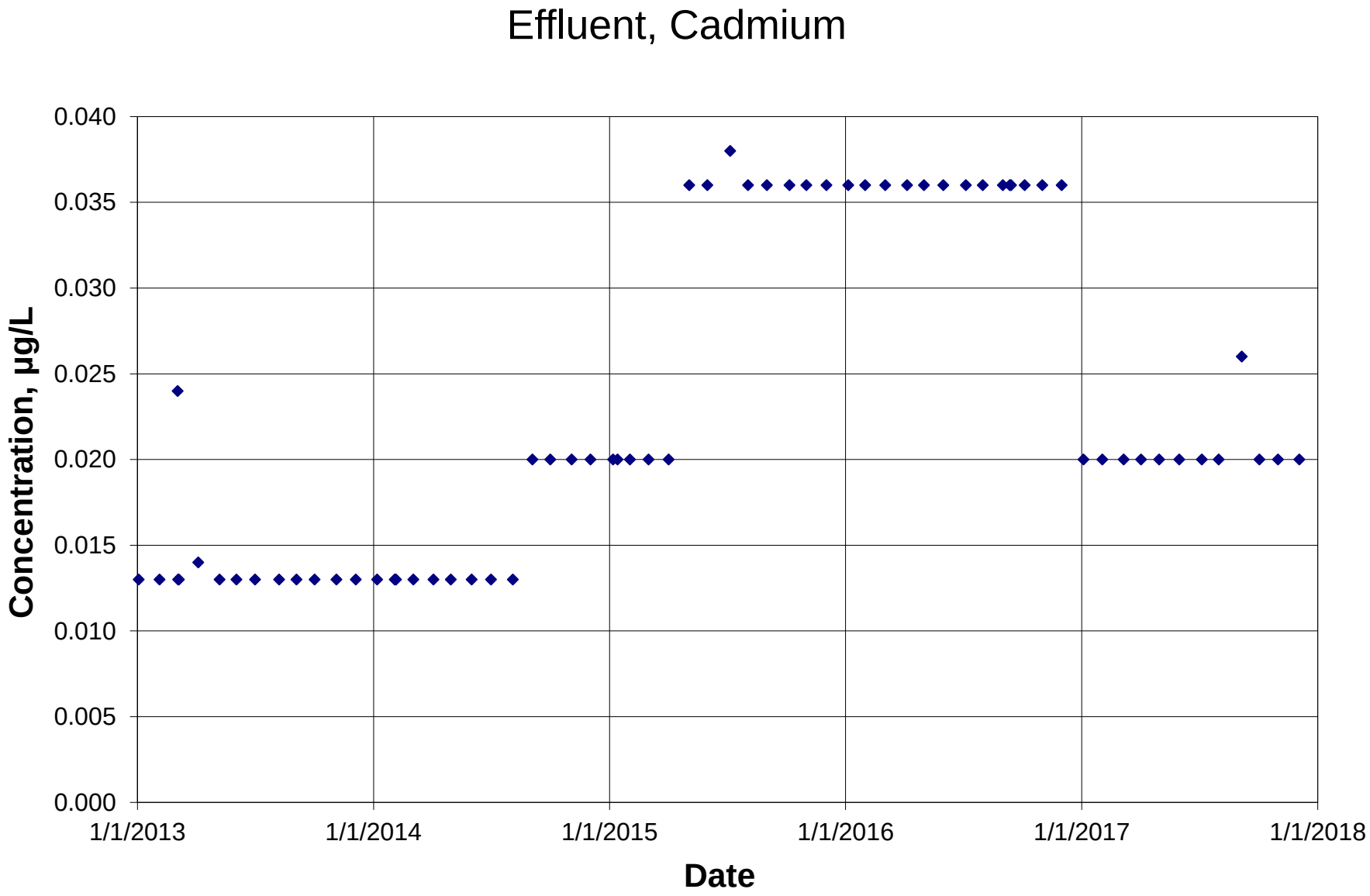
Appendix II

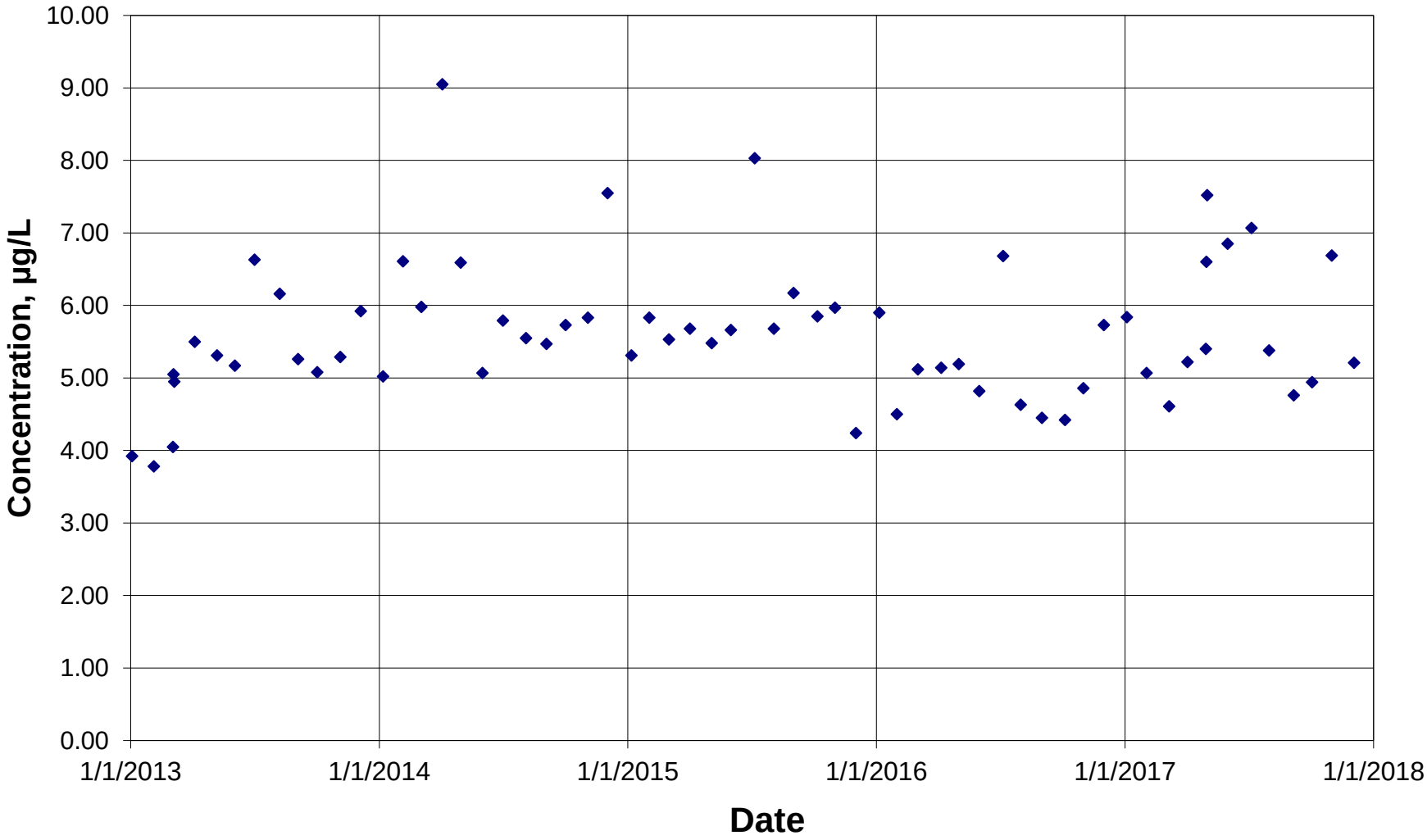
5-years Influent and Effluent Graphs for Metals

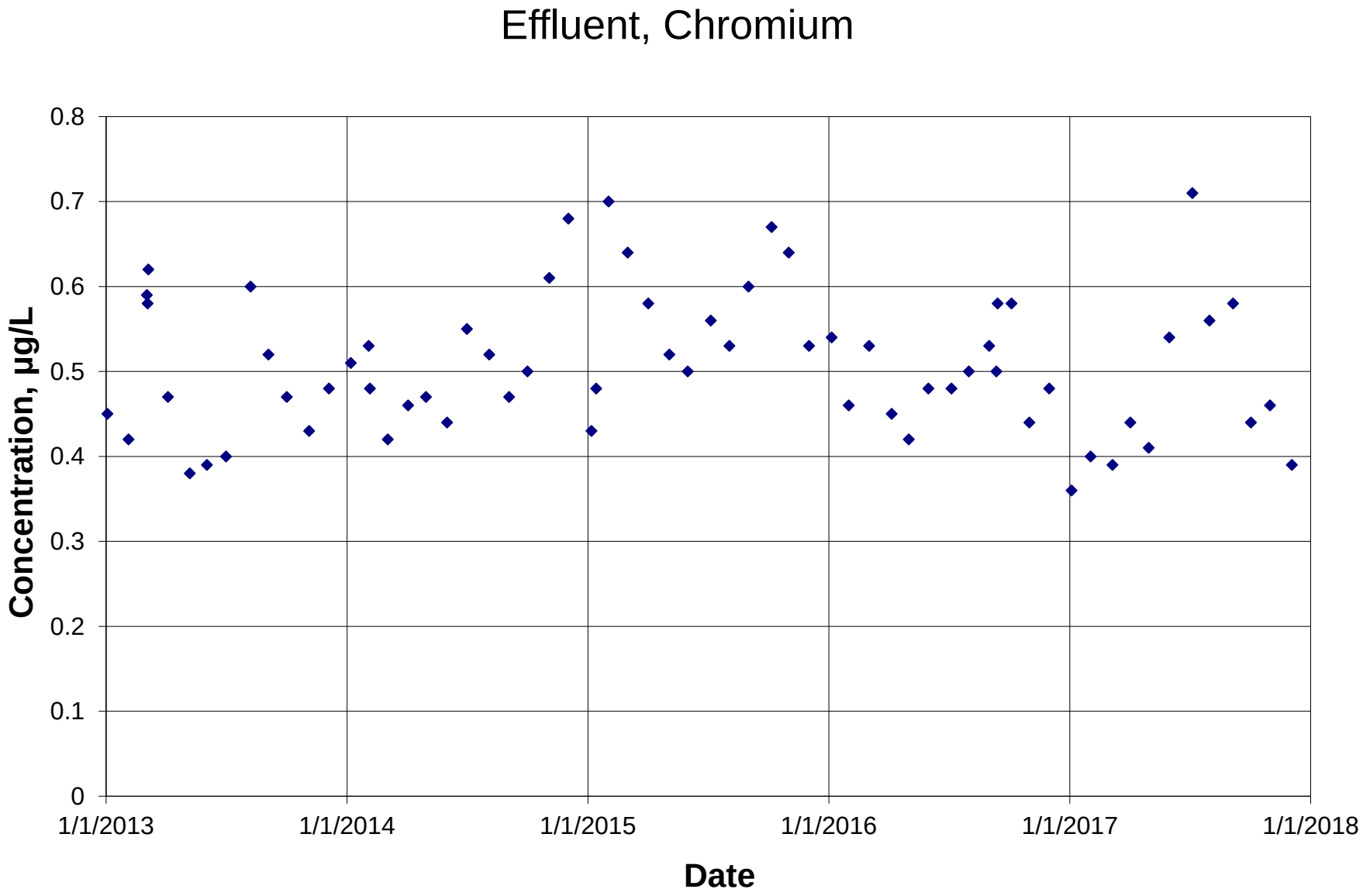

Influent, Arsenic
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
Concentration, µg/L
1/1/2013
1/1/2014
1/1/2015
1/1/2016
1/1/2017
1/1/2018
Date

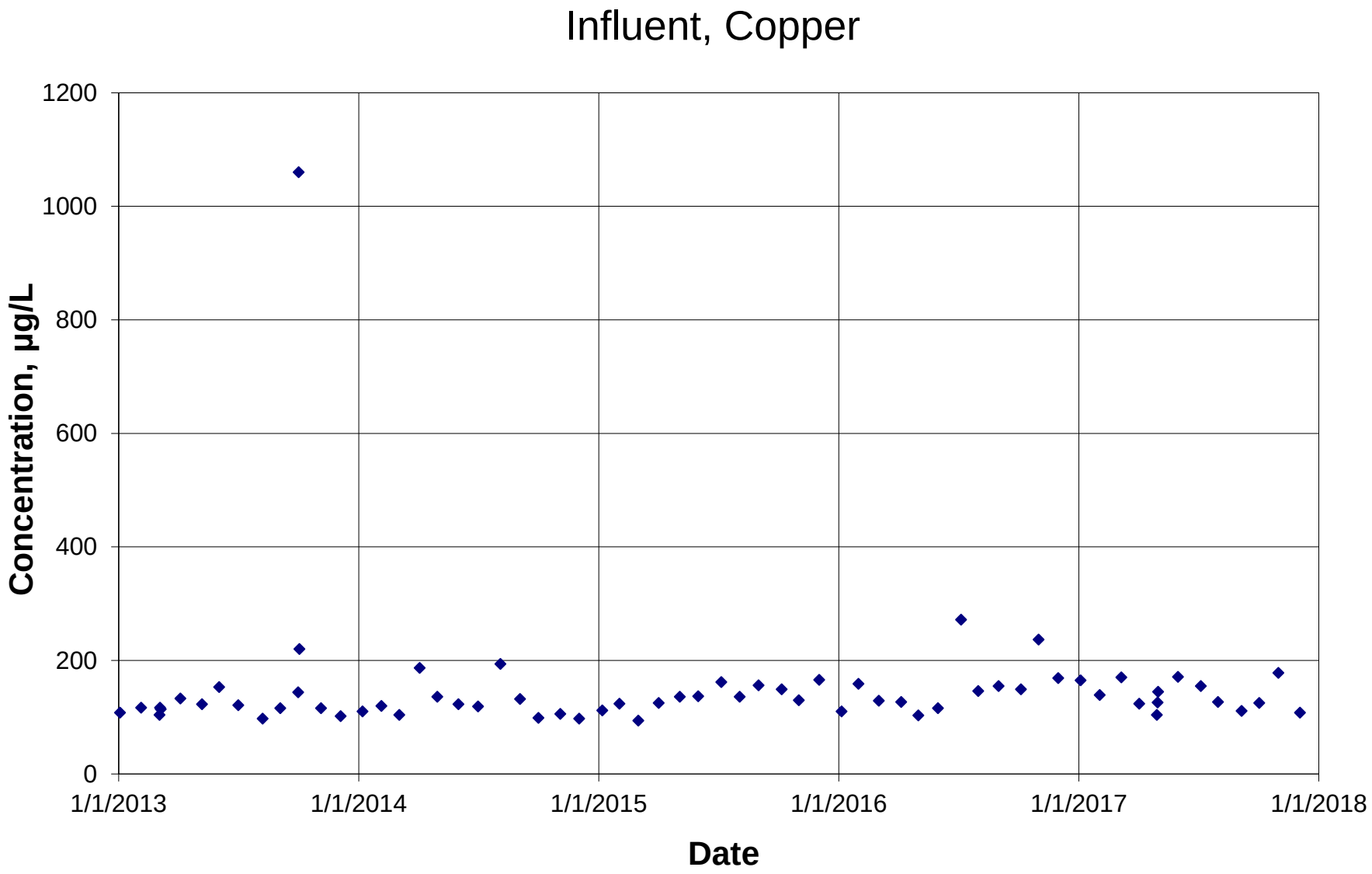

Effluent, Arsenic
Concentration, µg/L
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1/1/2013
1/1/2014
1/1/2015
1/1/2016
1/1/2017
1/1/2018
Date

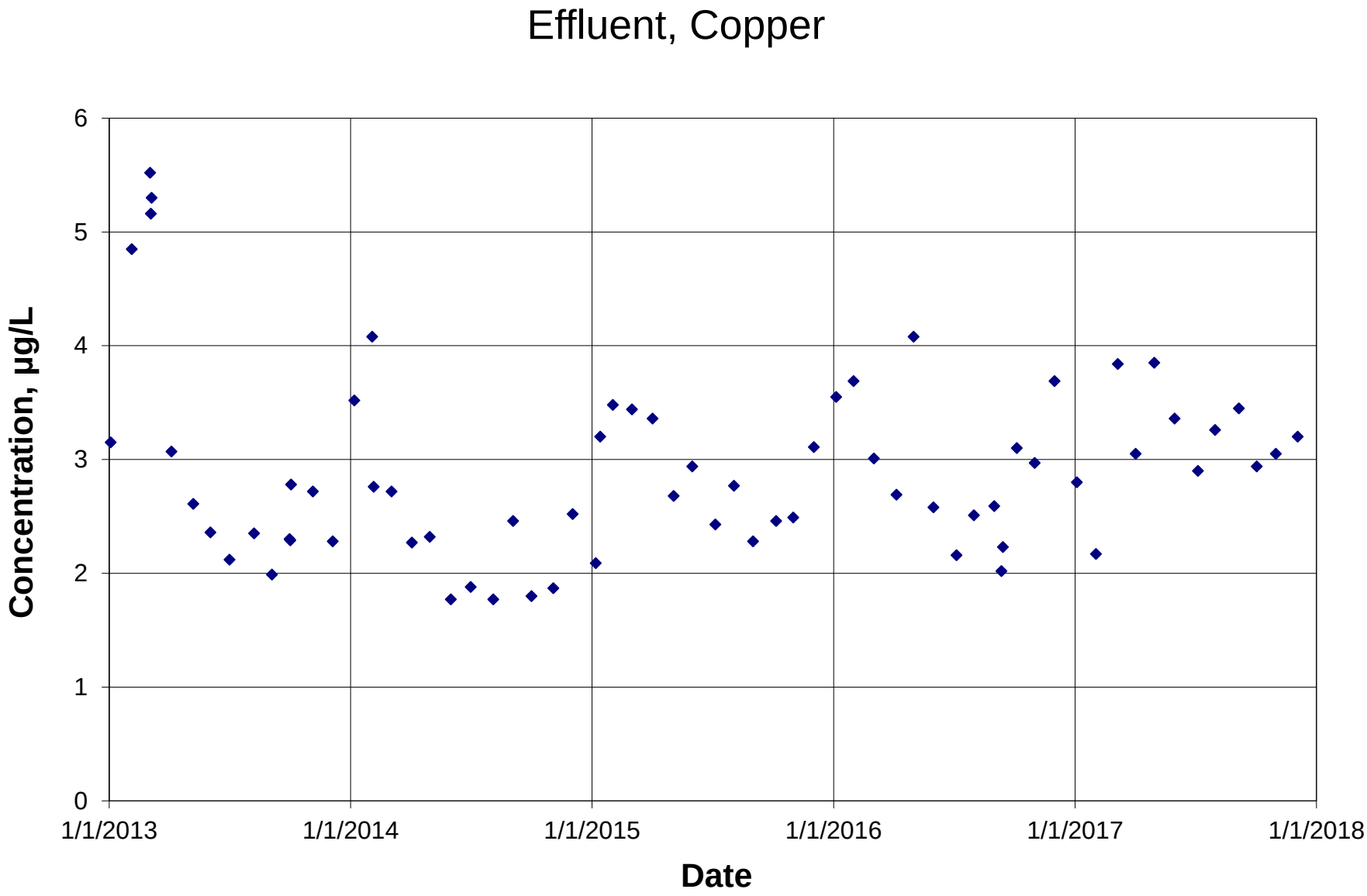

Influent, Cadmium
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
Concentration, µg/L
1/1/2013
1/1/2014
1/1/2015
1/1/2016
1/1/2017
1/1/2018
Date

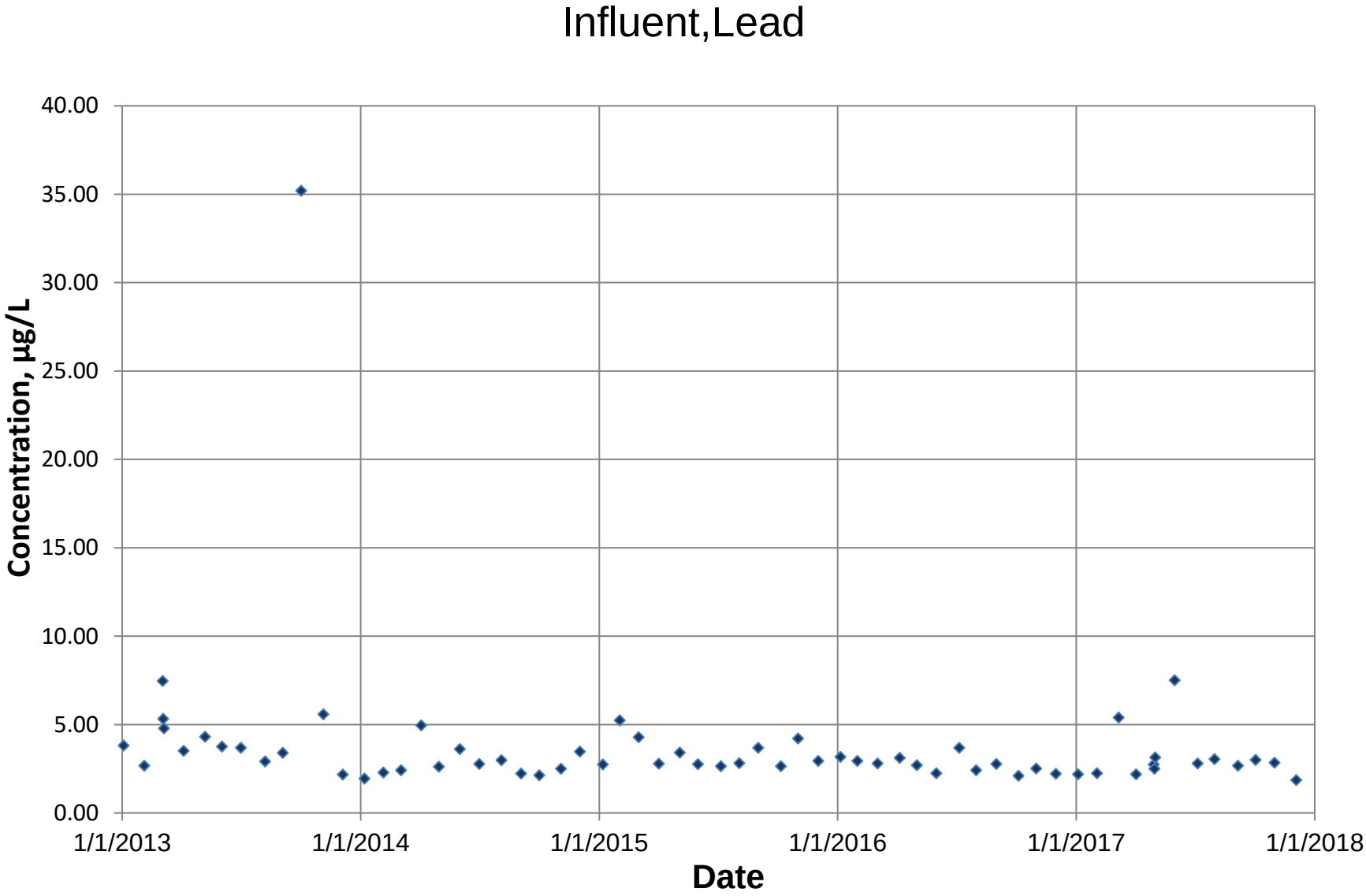

Effluent, Cadmium
0.040
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
Concentration, µg/L
1/1/2013
1/1/2014
1/1/2015
1/1/2016
1/1/2017
1/1/2018
Date

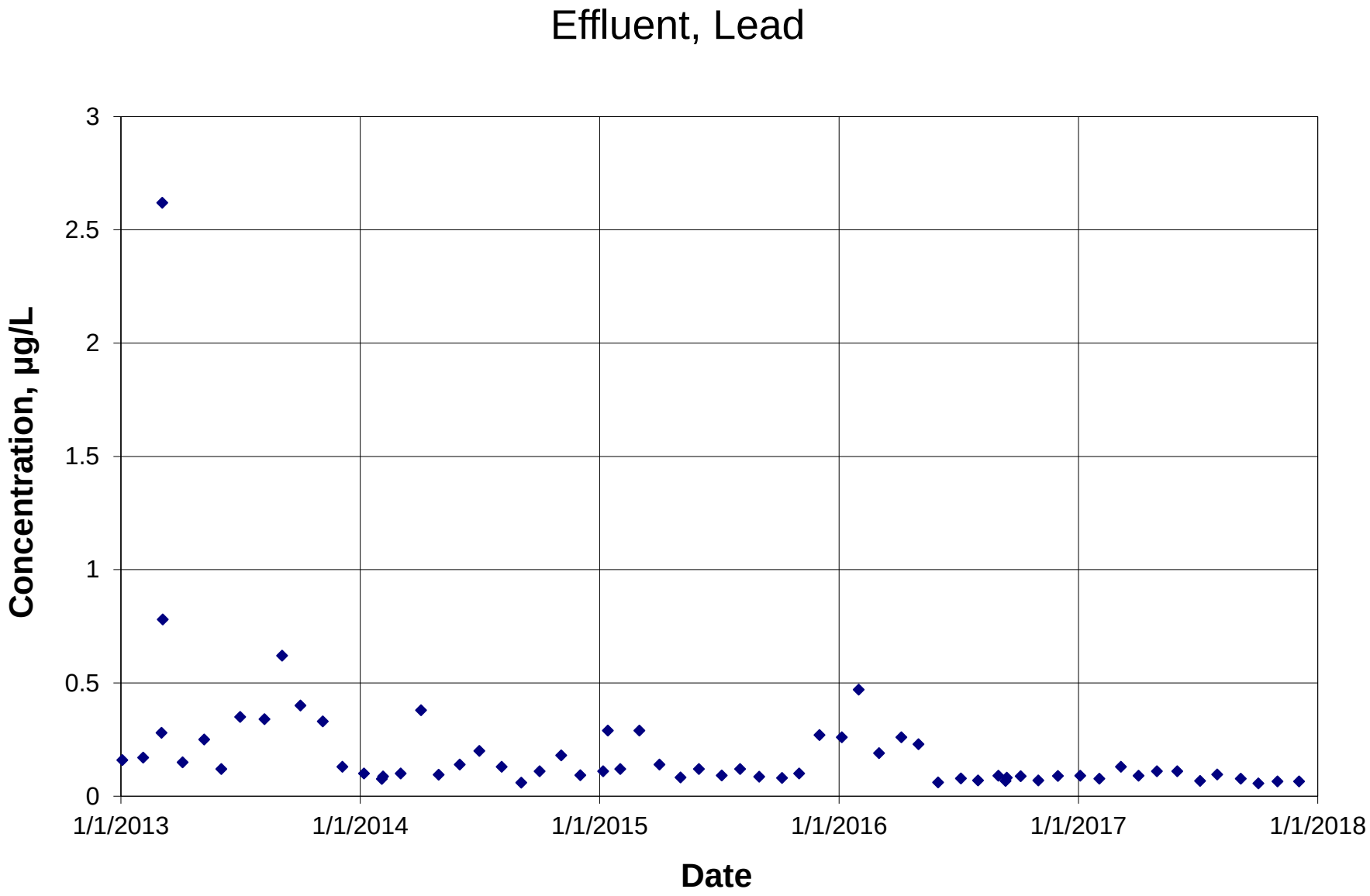

Influent, Chromium
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
Concentration, µg/L
1/1/2013
1/1/2014
1/1/2015
1/1/2016
1/1/2017
1/1/2018
Date

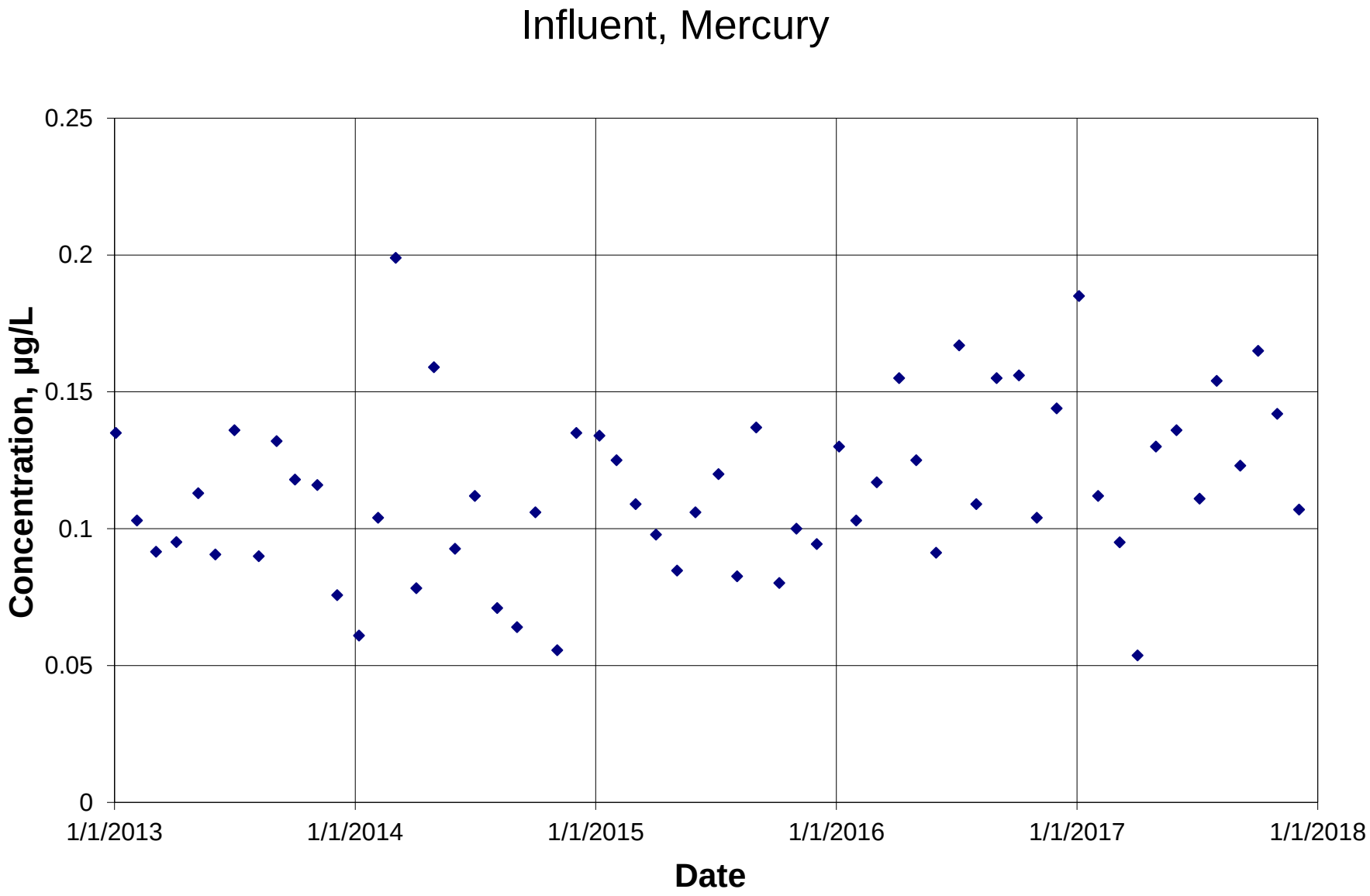

Effluent, Chromium
Concentration, µg/L
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1/1/2013
1/1/2014
1/1/2015
1/1/2016
1/1/2017
1/1/2018
Date

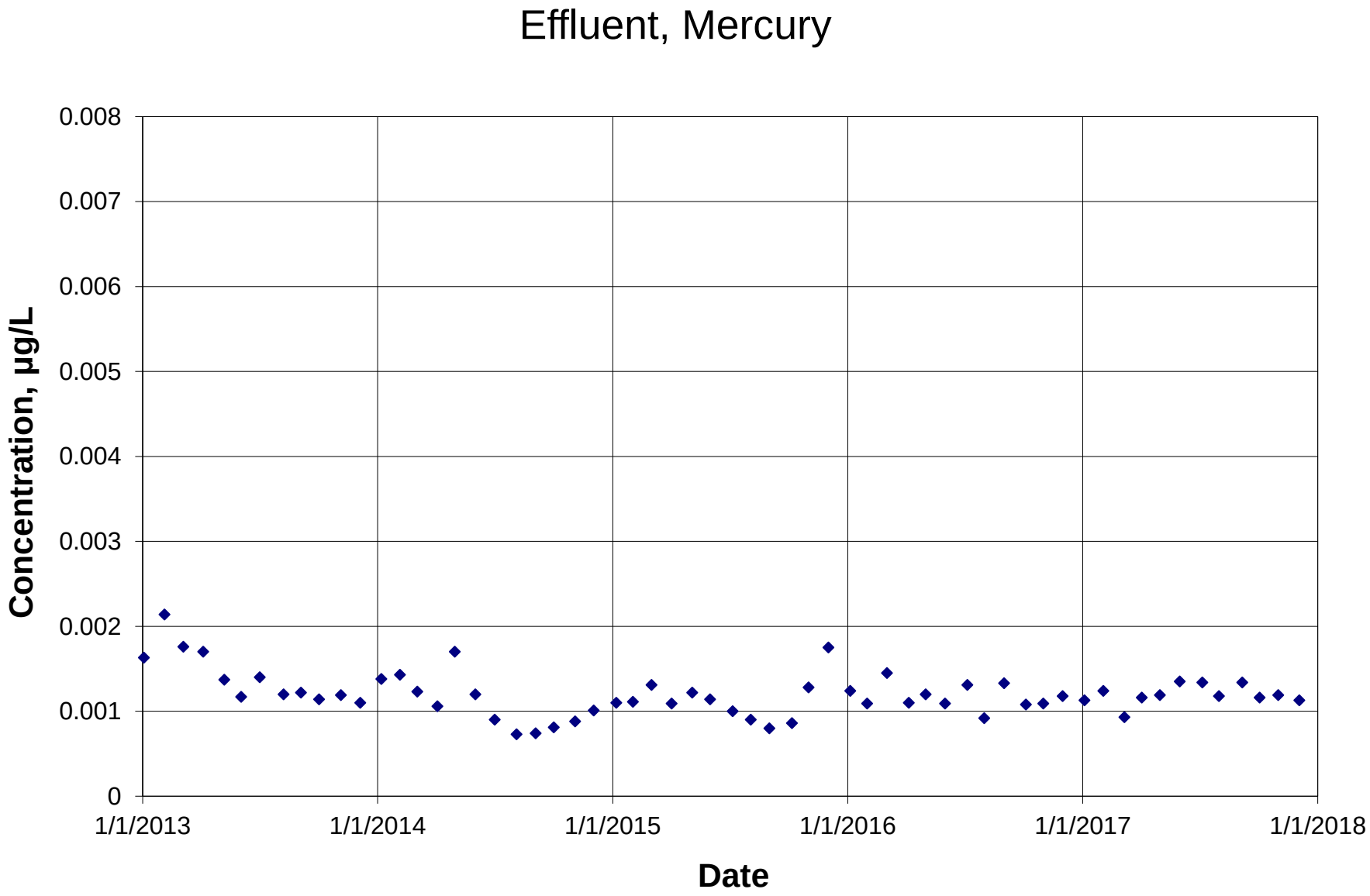

Influent, Copper
1200
1000
800
600
400
200
0
Concentration, µg/L
1/1/2013
1/1/2014
1/1/2015
1/1/2016
1/1/2017
1/1/2018
Date

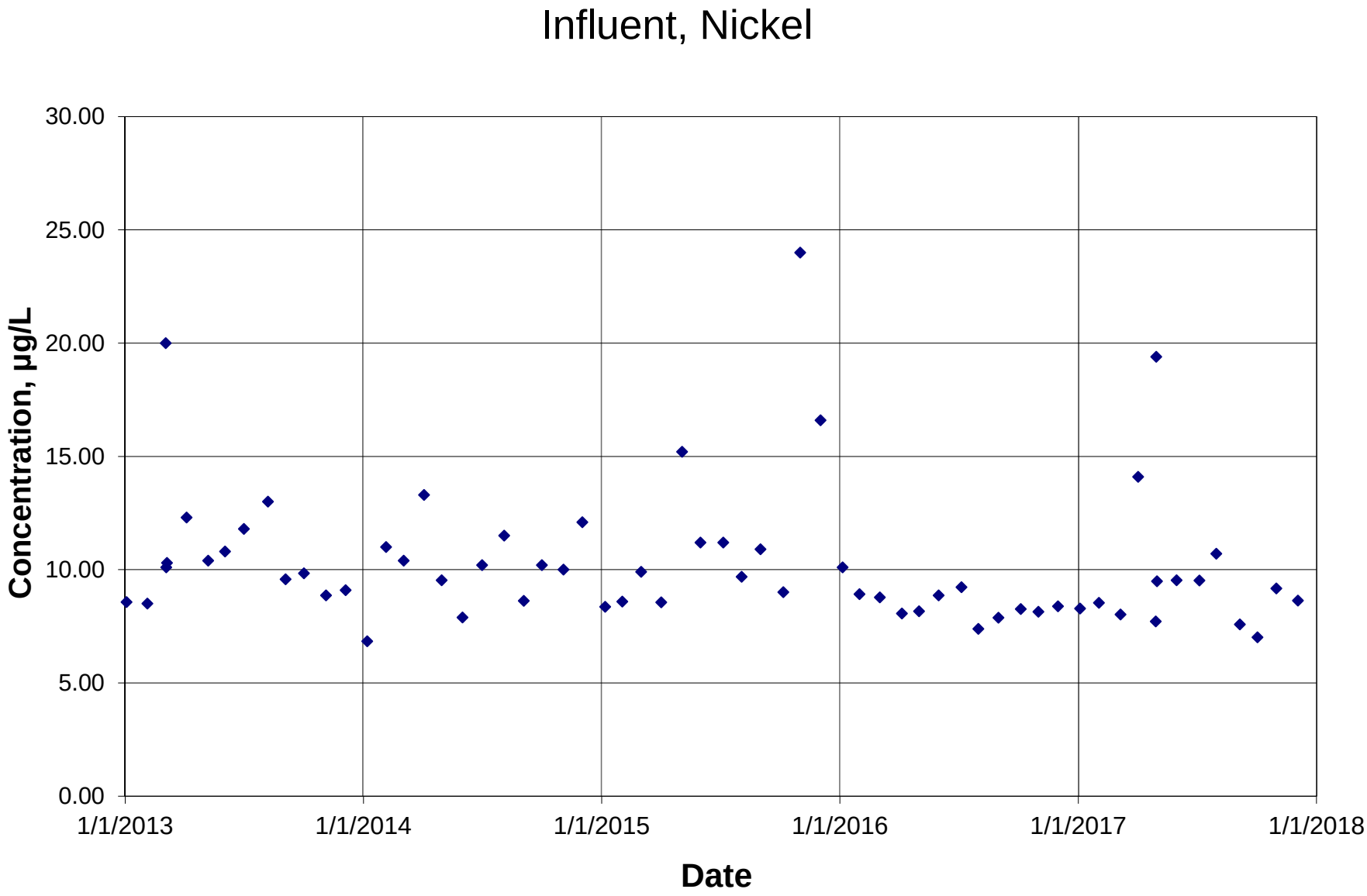

Effluent, Copper
Concentration, µg/L
0
1
2
3
4
5
6
1/1/2013
1/1/2014
1/1/2015
1/1/2016
1/1/2017
1/1/2018
Date

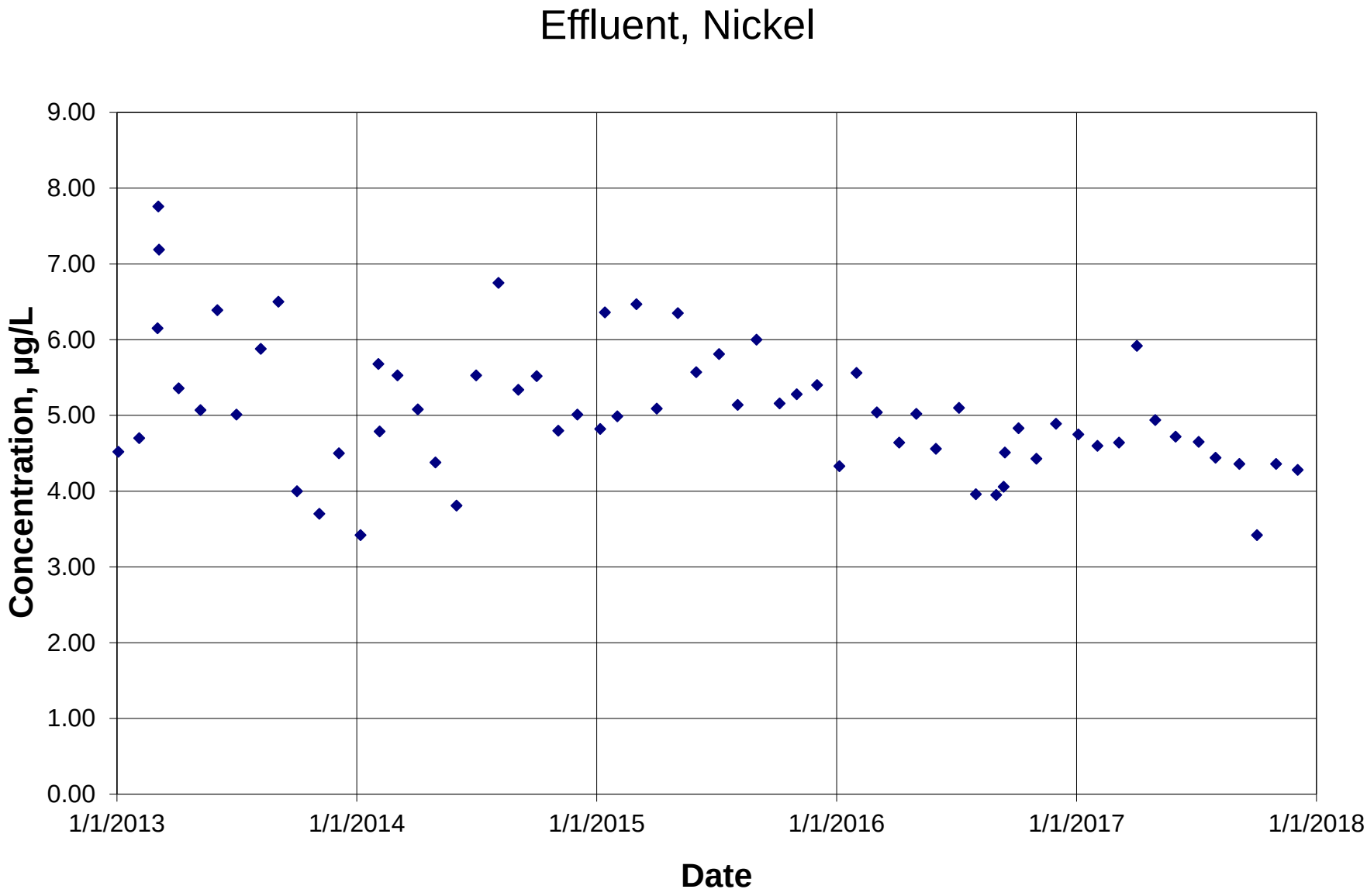

Influent,Lead
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.00
0.00
Concentration, µg/L
1/1/2013
1/1/2014
1/1/2015
1/1/2016
1/1/2017
1/1/2018
Date

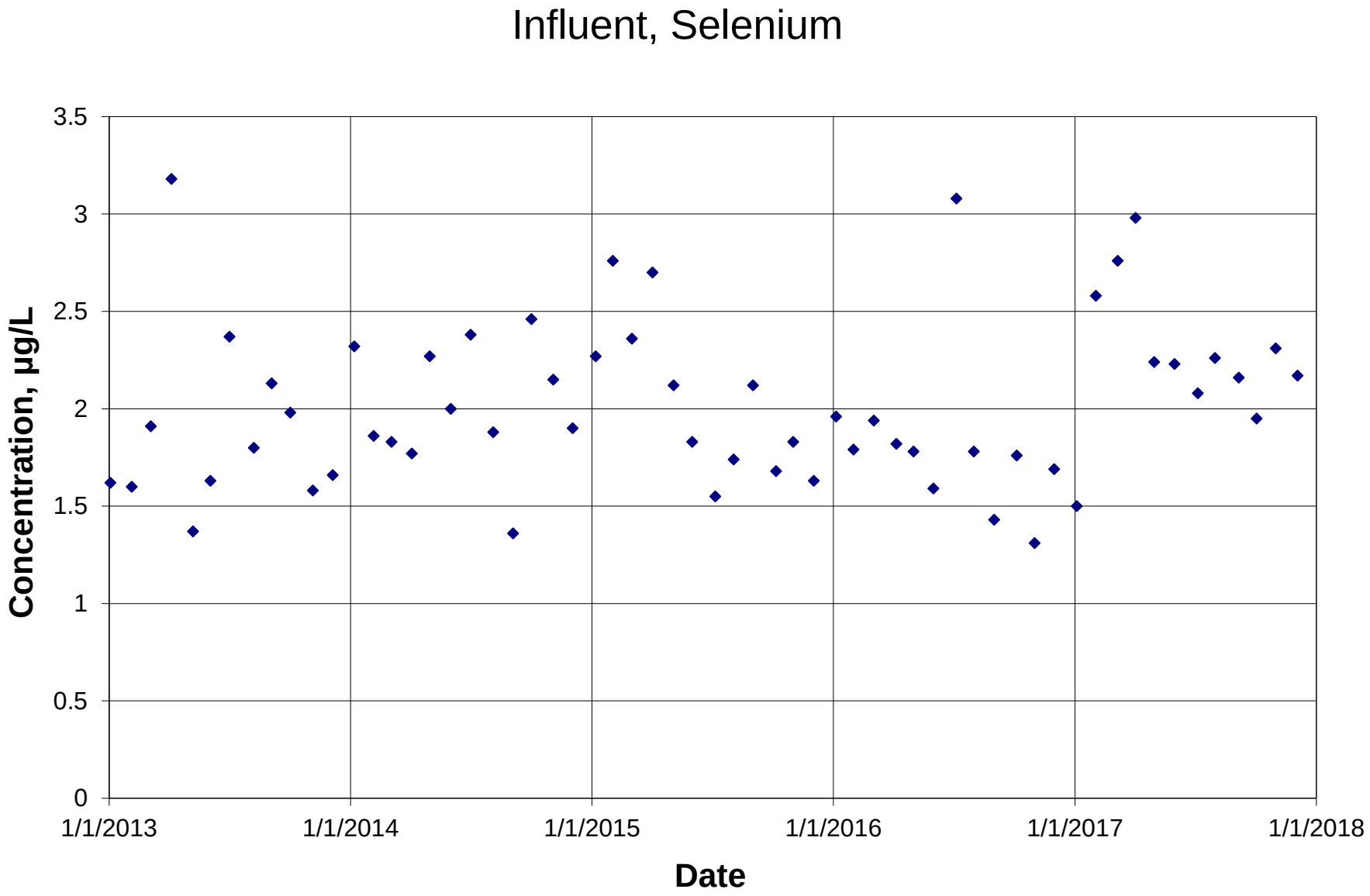

Effluent, Lead
Concentration, µg/L
3
2.5
2
1.5
1
0.5
0
1/1/2013
1/1/2014
1/1/2015
1/1/2016
1/1/2017
1/1/2018
Date

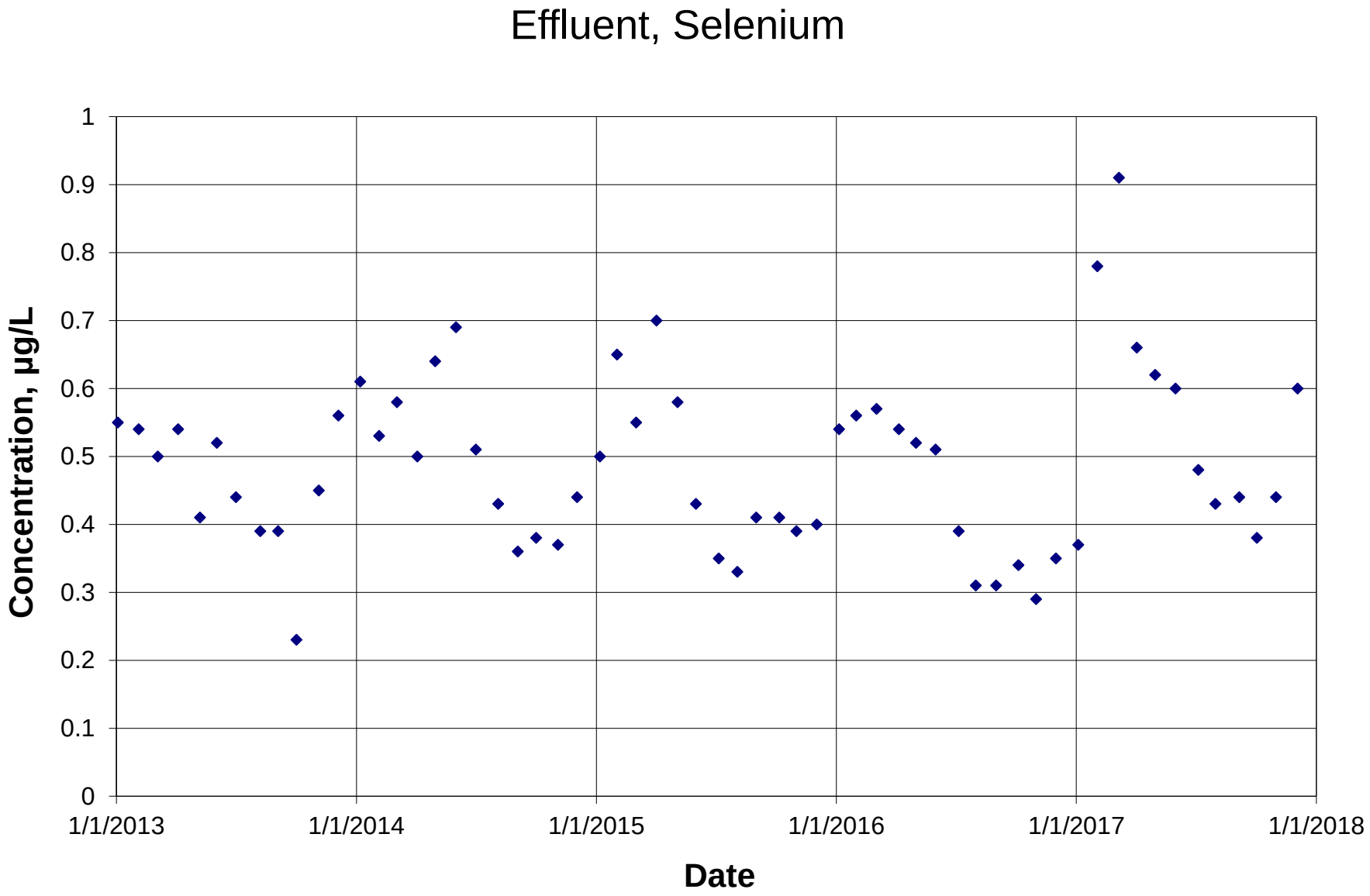

Influent, Mercury
0.25
0.2
0.15
0.1
0.05
0
Concentration, µg/L
1/1/2013
1/1/2014
1/1/2015
1/1/2016
1/1/2017
1/1/2018
Date

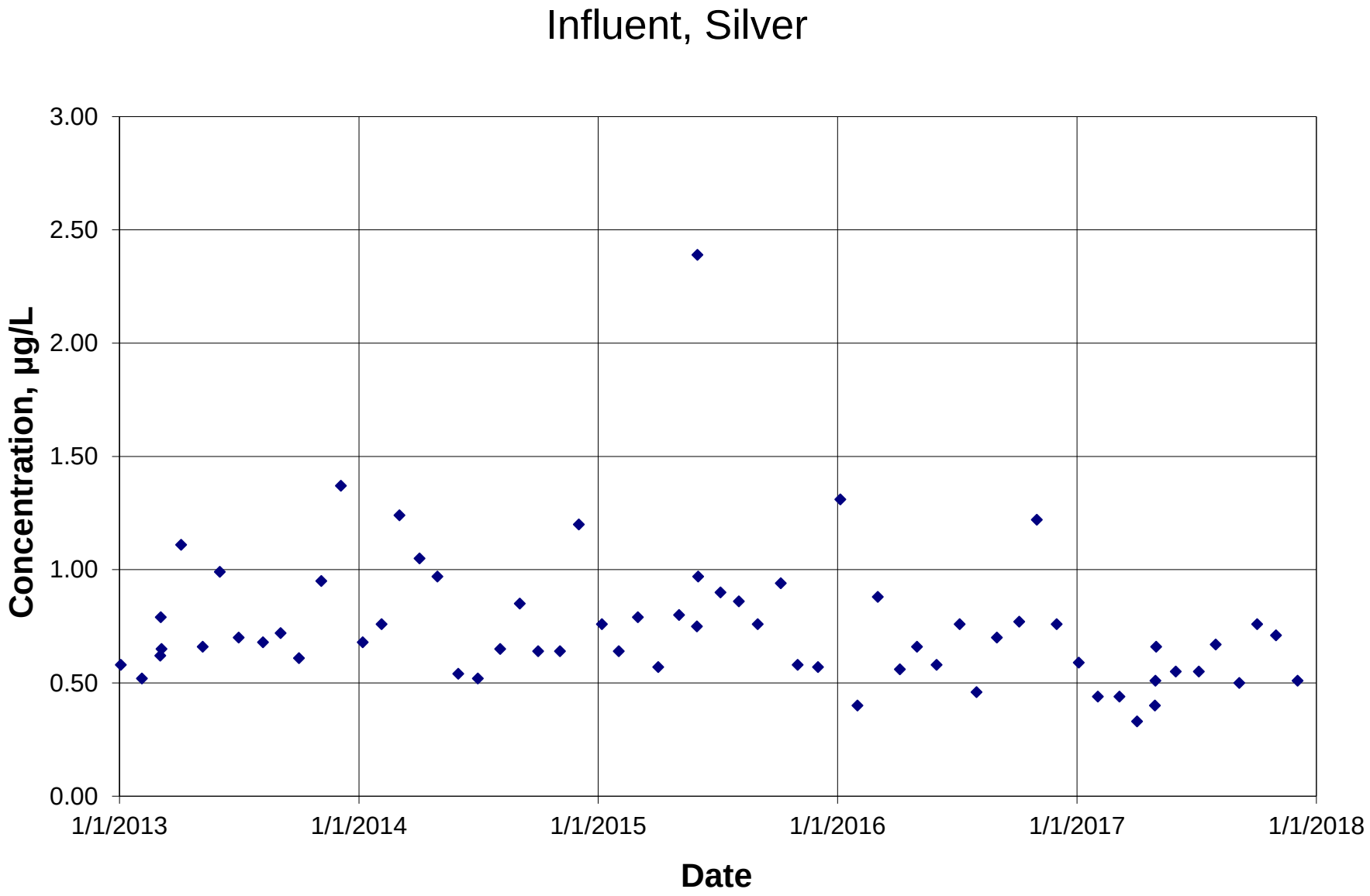

Effluent, Mercury
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0
Concentration, µg/L
1/1/2013
1/1/2014
1/1/2015
1/1/2016
1/1/2017
1/1/2018
Date

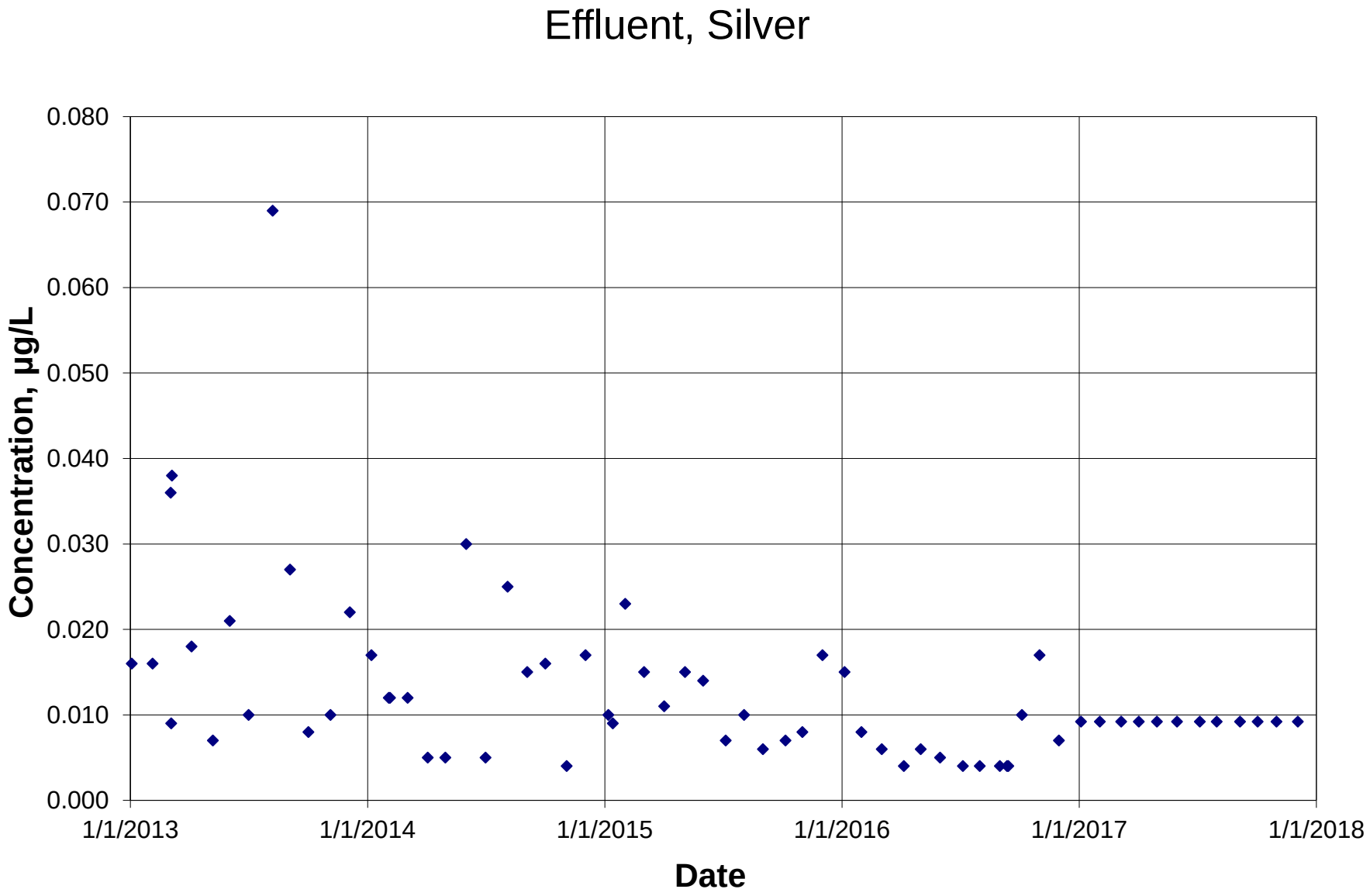

Influent, Nickel
30.00
25.00
20.00
15.00
10.00
5.00
0.00
Concentration, µg/L
1/1/2013
1/1/2014
1/1/2015
1/1/2016
1/1/2017
1/1/2018
Date

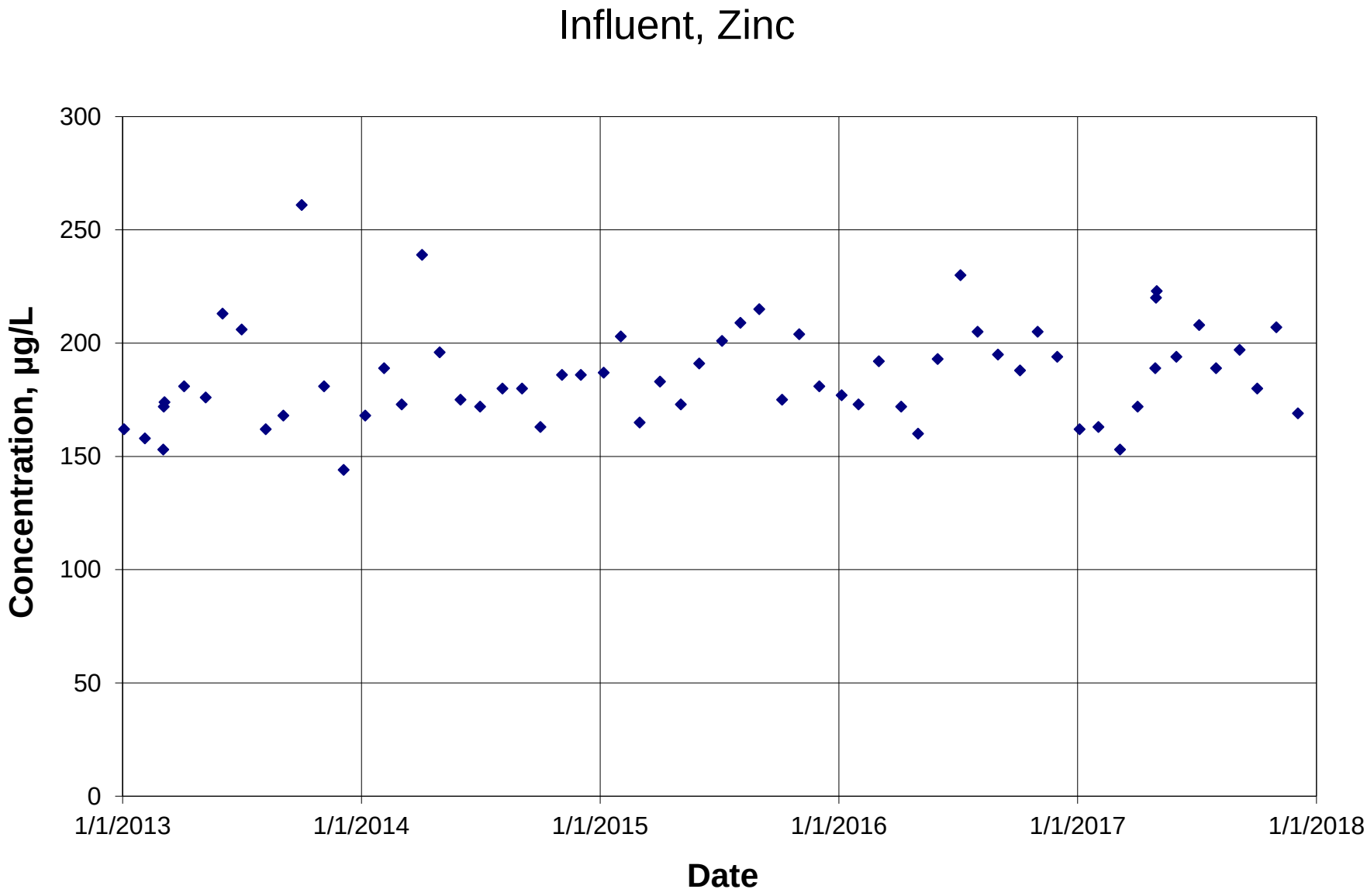

Effluent, Nickel
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
Concentration, µg/L
1/1/2013
1/1/2014
1/1/2015
1/1/2016
1/1/2017
1/1/2018
Date

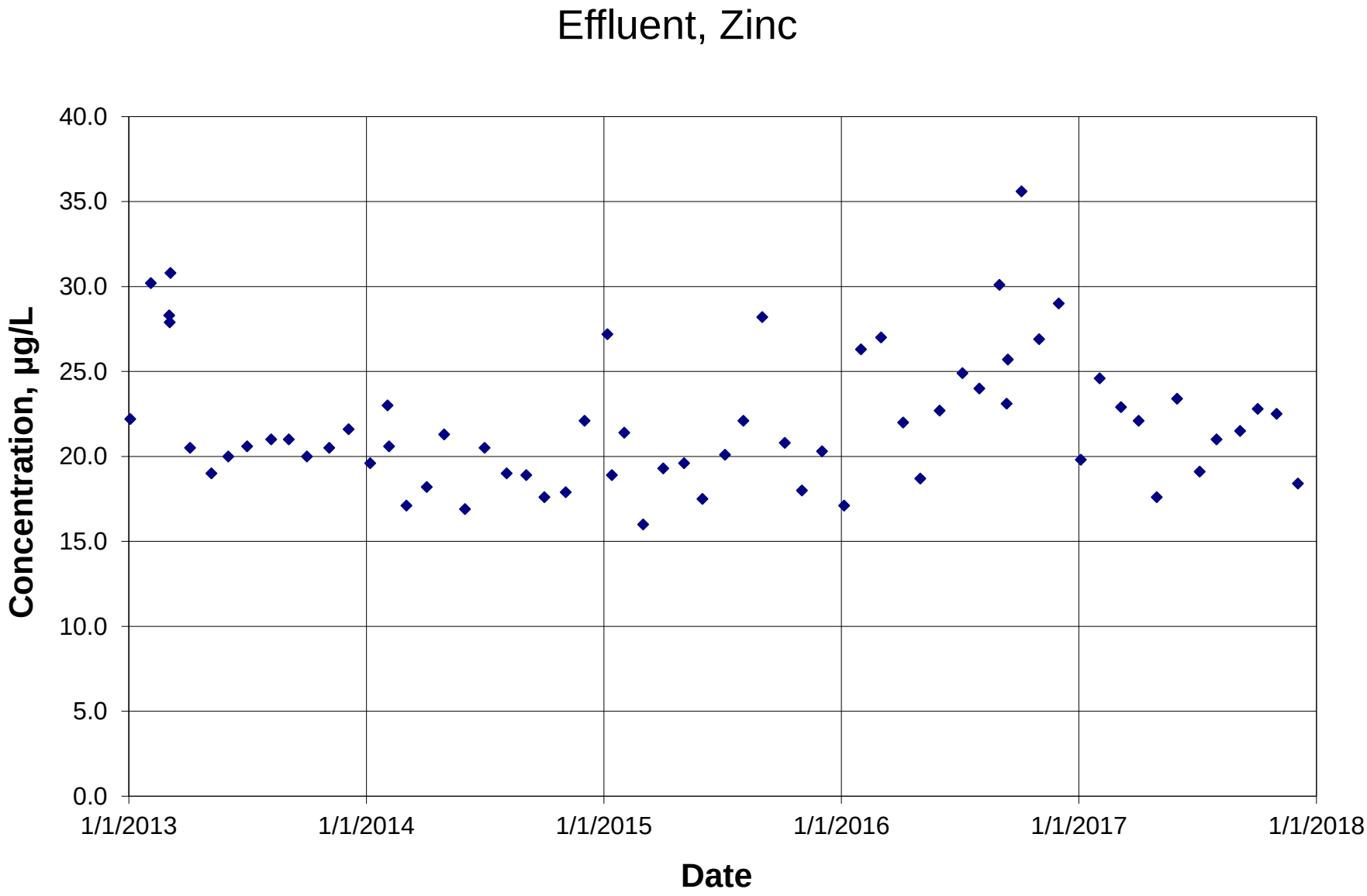

Influent, Selenium
Concentration, µg/L
3.5
3
2.5
2
1.5
1
0.5
0
1/1/2013
1/1/2014
1/1/2015
1/1/2016
1/1/2017
1/1/2018
Date

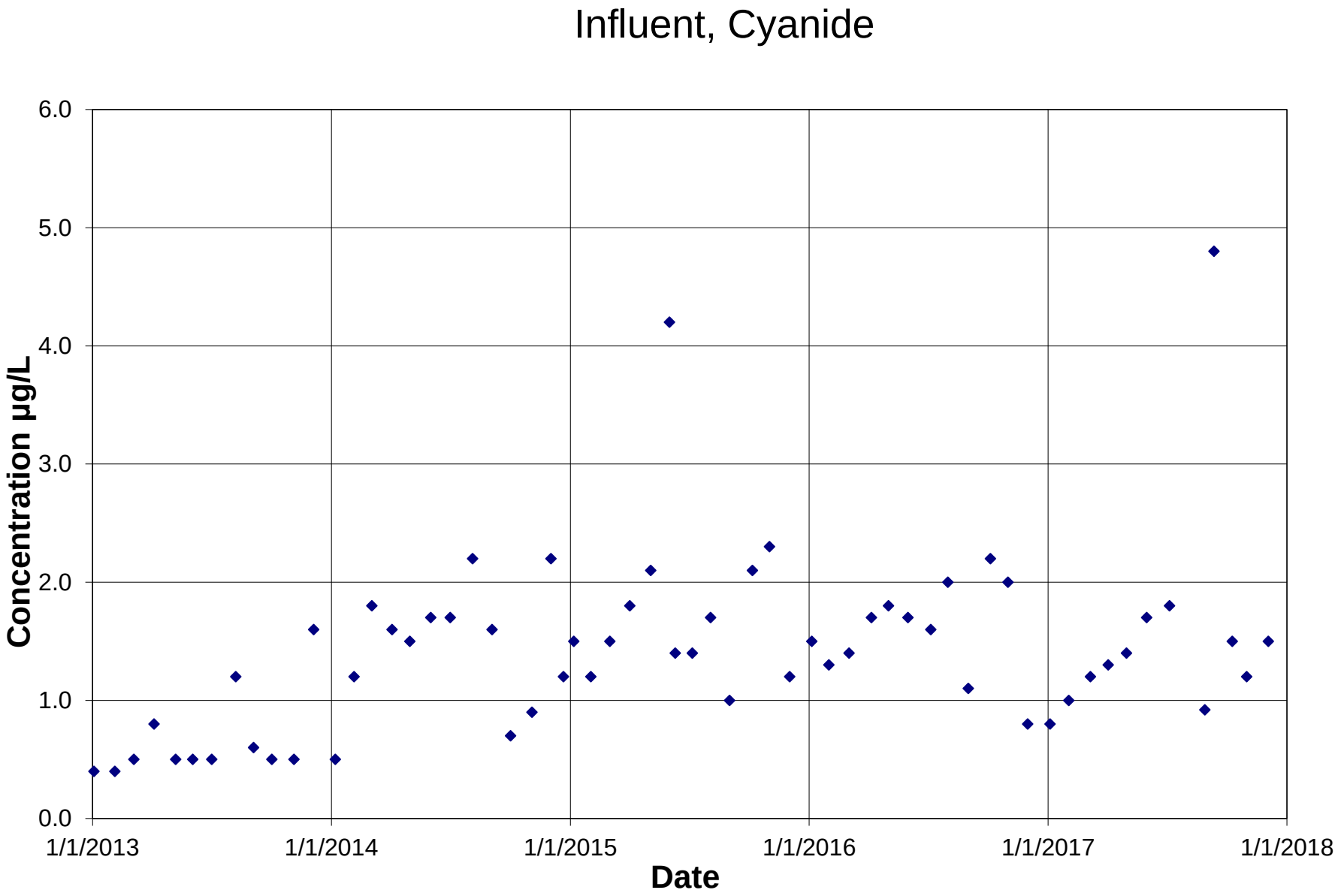

Effluent, Selenium
Concentration, µg/L
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1/1/2013
1/1/2014
1/1/2015
1/1/2016
1/1/2017
1/1/2018
Date

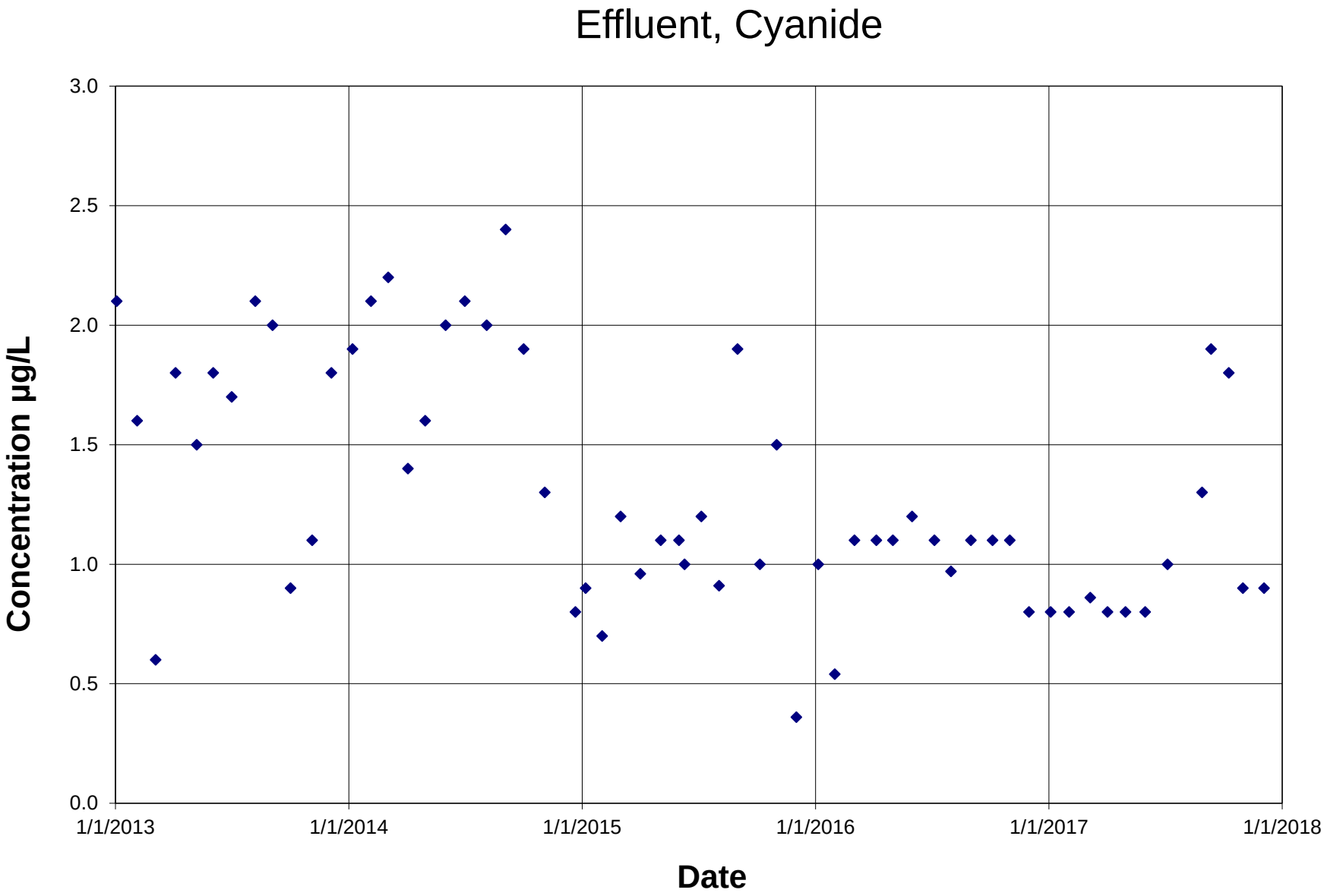

Influent, Silver
3.00
2.50
2.00
1.50
1.00
0.50
0.00
Concentration, µg/L
1/1/2013
1/1/2014
1/1/2015
1/1/2016
1/1/2017
1/1/2018
Date


Effluent, Silver
0.080
0.070
0.060
0.050
0.040
0.030
0.020
0.010
0.000
Concentration, µg/L
1/1/2013
1/1/2014
1/1/2015
1/1/2016
1/1/2017
1/1/2018
Date


Influent, Zinc
300
250
200
150
100
50
0
Concentration, µg/L
1/1/2013
1/1/2014
1/1/2015
1/1/2016
1/1/2017
1/1/2018
Date


Effluent, Zinc
Concentration, µg/L
40.0
35.0
30.0
25.0
20.0
15.0
10.0
5.0
0.0
1/1/2013
1/1/2014
1/1/2015
1/1/2016
1/1/2017
1/1/2018
Date


Influent, Cyanide
6.0
5.0
4.0
3.0
2.0
1.0
0.0
Concentration µg/L
1/1/2013
1/1/2014
1/1/2015
1/1/2016
1/1/2017
1/1/2018
Date


Effluent, Cyanide
Concentration µg/L
3.0
2.5
2.0
1.5
1.0
0.5
0.0
1/1/2013
1/1/2014
1/1/2015
1/1/2016
1/1/2017
1/1/2018
Date

Inspection, Sampling, and Enforcement Programs

This section of the annual report provides summaries of the frequencies and procedures for the City of San Jose's (City's) inspection and sampling program. Included are the following:

- Inspection and Sampling Frequency Criteria,
- Inspection Format Procedures, and
- Chain of Custody Procedures.

Inspection and Sampling Frequency Criteria

This section summarizes the normal condition sampling and frequency criteria for different types of industrial users.

Inspection Format Procedures

This section summarizes key elements required to perform different types of inspections.

Chain of Custody Procedures

This section summarizes the chain of custody procedure to ensure the integrity of samples collected and analyzed by City inspection and laboratory personnel.

Enforcement Procedures

This section details the enforcement procedures used by the City to ensure violations are enforced consistently.

Inspection and Sampling Frequency Criteria

To collect samples that are representative of an SIU's variable discharge practices, the dischargers are designated into three groups which are based on discharge type: Consistent, Variable, and Extremely Variable. A consistent discharger would continue to sample with a frequency of semiannually. An SIU would be considered a Variable discharger if the following are all true.

- Discharge is more than 5000 GPD.
- Processes produce discharge that changes over time or days.
- Treatment of wastewaters does not include ion exchange, membrane or ultra filtration, or batch discharge.
- Discharger may treat concentrated baths.

A discharger that fits these criteria would be considered a Variable discharger, and sampled quarterly. Dischargers that are 40 CFR 437 facilities, which have large variability in their discharge, would be considered "Extremely Variable" and sample monthly.

The annual inspection and sampling frequency established for the three groups is summarized in the following table, entitled "Inspection and Sampling Frequency."

Table 2: Inspection and Sampling Frequency

Discharge Type	Inspection Frequency	City Sampling	SIU Sampling
Consistent	2	2	2
Variable	4	4	4
Extremely Variable	4	12	12

Inspection Format Procedures

Permit Inspection

A permit inspection is conducted as part of the permitting process. There are three parts to a permit inspection.

1. The first part involves reviewing the following:
    a. Permit application,
    b. Previous permit, fact sheets, and permit applications,
    c. Information in the Environmental Enforcement Database Management System (EEDMS),
    d. Industrial User (IU) compliance history with all applicable limits, and
    e. Other file information such as sample results, IU, and City correspondence, etc.
2. The second part involves discussing the permit application and pertinent documents with the IU during a scheduled inspection. IU interviews include the following elements, as applicable:
    a. Reviewing the permit application with the IU and resolving any discrepancies,
    b. Verifying the correct name of the company,
    c. Identifying responsible contacts and their roles, particularly the executive officer, the waste treatment operator, and sampling contacts,
    d. Reviewing hours of operation, shifts, number of employees, and future expansion plans,
    e. Determining time periods used for data submittals,
    f. Reviewing flow data, both influent and effluent,
    g. Verifying flow and disposal data for mass and flow balances,
    h. Determining location and types of water sources,
    i. Determining location of all wastewater discharge points,
    j. Reviewing sanitary sewer connections and storm sewer routing,
    k. Reviewing sewer treatment plant fee status,
    l. Reviewing compliance status,
    m. Reviewing the processes listed for any production or treatment equipment changes since the last permit was issued,
    n. Evaluating the treatment system,
    o. Reviewing the site plan and process equipment layout to identify sample points and documentation of flow meter types and locations,
    p. Reviewing in-house monitoring practices,
    q. Reviewing hazardous materials plan and chemical inventory list,
    r. Reviewing Slug Plan, Spill Prevention Plan, and Containment Plan, where applicable,
    s. Reviewing waste manifests,
    t. Reviewing pollution prevention strategies, and

u. Reviewing water efficiency strategies and applicability of the Water Efficient Technologies Program.

3. The third part involves the physical inspection of the IU facility. Permit inspections include the following elements, as applicable:
   a. Inspecting products and wastewater generating processes and activities,
   b. Verifying compliance with previous permit conditions,
   c. Verifying that the layout of the facility, processes, and treatment equipment correspond to the application,
   d. Reviewing pollution prevention and water efficiency measures,
   e. Verifying plumbing layout corresponds to application,
   f. Verifying that all connections to the sewer and storm drain correspond to application,
   g. Verifying that the sample points are in the correct location and meet the permit requirements,
   h. Reviewing in house self monitoring records,
   i. Reviewing that the location of flow meters corresponds to application,
   j. Identifying flow meter primary and secondary device types,
   k. Reviewing all in house flow meter records,
   l. Inspecting chemical storage areas and waste storage areas for any chemicals not listed on the application,
   m. Inspecting site for general housekeeping, and
   n. Inspecting site for stormwater issues.

Compliance Inspection

A routine inspection to determine compliance status and to identify practices which may lead to noncompliance. Compliance inspections are normally not scheduled and are not as in depth as a permit or an annual inspection. Compliance inspections include the following elements, as applicable:

1. Interviewing the IU's contact,
2. Reviewing the IU facilities for system and process improvements or change,
3. Reviewing with IU the facility's compliance history and self monitoring reports,
4. Discussing programs on scheduled improvements of wastewater treatment systems and improved practices furthering compliance,
5. Reviewing records of wastes not discharged to the sanitary sewer,
6. Inspecting wastewater producing areas, noting and discussing practices that might lead to noncompliance and faulty equipment,
7. Inspecting wastewater monitoring equipment, noting and discussing any faulty equipment,
8. Reviewing all wastewater monitoring logs, noting and discussing any discrepancies,
9. Inspecting chemical and waste storage areas, noting and discussing any careless practices or spills,

10. Reviewing facility's in-house self monitoring records, noting and discussing any discrepancies,
11. Inspecting sampling point and monitoring station and equipment, noting and discussing any bypassing or other compliance issues,
12. Reviewing IU's industrial waste discharge permit and verifying that all permit conditions are being met,
13. Reviewing and signing off pH chart recorder, and
14. Collecting a sample if determined to be needed during the inspection. Ongoing compliance sampling is conducted by Assistant Environmental Inspectors and discussed in the Sampling Inspection Section

Annual Inspection

These inspections are similar to the compliance inspections and include all the items above; however, they are more detailed and require more time to conduct. Often these inspections are scheduled in advance to allow the IU the ability to have all required materials and records prepared in advance to facilitate the inspection. In addition to the elements described for compliance inspections, annual inspections include the following elements, as applicable:

1. Reviewing in depth all of the IU's files and the database prior to the inspection including the layout of the facility, the processes, the permit application, the permit, and fact sheet, the compliance history and the IU's Self Monitoring Reporting schedule,
2. Reviewing and verifying contact information,
3. Reviewing with IU hours of operation and number of shifts,
4. Discussing with IU any future expansion plans,
5. Reviewing all waste and storage records,
6. Reviewing with IU the facility flow diagram and facility layout for new processes or new equipment,
7. Inspecting facility processes for any bypasses, dilution streams, process and equipment changes, and documenting any changes not discussed previously,
8. Inspecting facility processes for dilution streams,
9. Inspecting wastewater treatment system and documenting any changes,
10. Inspecting and reviewing calibration of flow, pH monitoring, and other monitoring equipment,
11. Review pH chart recorder as applicable, noting and discussing any discrepancies and potential violations, and
12. Reviewing requirements for slug discharge plan by completing slug plan evaluation checklist or reviewing updates to existing slug discharge plan.

Enforcement Inspection

An enforcement inspection is the same as a compliance inspection, but is targeted on determining the causes of violations discovered according to the *Source Control Enforcement Response Plan*. The purpose of these types of inspections is also to verify the responses to the violation including how the IU will prevent future violations.

Special Investigation Inspection

A special investigation inspection is an inspection used to verify that adequate measures are being implemented to prevent violations of local, state, or federal regulations governing discharge due in response to a spill to the storm or sanitary sewer, emergency or other special matter, or in response to a complaint. This inspection is performed in response to a notification of a spill to the storm or sanitary sewer.

Sampling Inspection

These inspections are performed by the Assistant Environmental Inspectors during routine sampling events conducted by the City. Sampling inspections include the following elements, as applicable:

1. Collecting compliance and revenue samples as required,
2. Checking samples for pH using pH meter and recording the results,
3. Recording pH from final pH meter and comparing to pH meter readings of sample collected,
4. Recording flow readings from flow meters and verifying last calibration date,
5. Recording results of last in-house testing with time and date,
6. Recording any observations of sample point and sampling equipment,
7. Recording any abnormalities observed in effluent conditions, and
8. Recording any abnormalities observed in treatment system.

Closure Inspection

These inspections are performed when a discharger is in the process of closing. Several inspections may be required to review the company's progress toward closure. These inspections may include the following elements, as applicable:

1. Verifying removal of all process equipment from the facility,
2. Verifying removal of all process chemistries from the facility,
3. Reviewing waste manifests for verifications that all waste has been hauled from the facility,
4. Verifying and recording the date of last discharge to sanitary sewer,
5. Recording any influent water meter readings, and
6. Verifying that IU has filed a closure plan with the fire department.

Chain of Custody Procedures

All sampling performed by City personnel involves the use of a chain of custody record. The chain of custody record is part of the Laboratory Analysis Request form. This form indicates who took the sample, who witnessed the taking of the sample, and to whom the sample was released. It is intended to document every person that has had access to the sample. Samples are always in the secure custody of the sampling person until released to the laboratory. Once in the laboratory, samples are held in a locked area, accessible only to the last person signing for the samples.

Enforcement Procedures

The Pretreatment Program's Enforcement Response Plan (ERP) was prepared in accordance with EPA's Guidance for Developing Control Authority ERPs. The latest revision of the ERP was included with the 2009 Annual Report. The Pretreatment Program continues to follow the guidelines of this ERP.

Updated List of Regulated Significant Industrial Users

This section consists of three tables summarizing the changes made to the list of Significant Industrial User (SIU) facilities that discharge to the Wastewater Facility. As of December 31, 2017 there were 134 SIUs discharging to the Wastewater Facility. These facilities were classified as SIUs because they are either classified as having a categorical industrial user (CIU) process or have a discharge that is over 25,000 gallons per day. The following describes each table:

- **Updated List of Regulated SIUs – 2017** contains a complete listing of all SIUs as of December 31, 2017. Each SIU is listed in alphabetical order by facility name. The table also includes the discharger's permit number, address, and reason why each discharger is classified as an SIU.
- **Deleted SIUs – 2017** lists all SIUs that are no longer permitted, or are no longer an SIU. Each SIU listed shows the permit number, the discharger's address, the federal category under 40 CFR for the discharger where applicable, and a reason that the discharger was deleted or is no longer an SIU.
- **Newly Permitted SIUs – 2017** lists all SIUs that received a new permit in 2017, the new permit number, the discharger's address, and the federal category under 40 CFR for each SIU where applicable.

Updated List of Regulated SIUs - 2017

	Company Name	Permit No.	Address	City	Zip	Reason SIU
1	A & E Anodizing	SJ-314B	652 Charles St, Suite A	San Jose	95112	433A
2	Advanced Component Labs	SC-360B	990 Richard Ave, Unit 118	Santa Clara	95050	433A
3	Advanced Electropolishing Technologies	MI-120B	398 Railroad Ct	Milpitas	95035	433A
4	Advanced Surface Finishing Inc.	SJ-514B	1181 N 4th St, Suite 50	San Jose	95112	433A
5	Agilent Technologies, Inc.	SC-454B	5301 Stevens Creek Blvd	Santa Clara	95051	433A
6	Ahead Magnetics dba AheadTek	SJ-500B	6410 Via del Oro	San Jose	95119	433A
7	Allergan	WV-072B	503 Vandell Way	Campbell	95008	439A
8	Alsco	SJ-546B	2275 Junction Ave	San Jose	95131	>25K GPD
9	Altaflex, Inc.	SC-316B	336 Martin Ave	Santa Clara	95050	433A
10	Amalar, Inc.	SC-134B	2317 Calle de Luna	Santa Clara	95054	433A
11	Amex Plating, Inc.	SC-182B	3333 Woodward Ave	Santa Clara	95054	433A
12	Analog Devices Inc.	MI-146B	1630 McCarthy Blvd	Milpitas	95035	433A
13	Analog Devices, Inc.	MI-147B	275 S Hillview Dr	Milpitas	95035	469A
14	APCT, Inc.	SC-434A	3495 De la Cruz Blvd	Santa Clara	95054	433A
15	Apple, Inc.	SC-461B	3250 Scott Blvd	Santa Clara	95054	469A
16	Applied Anodize, Inc.	SJ-025B	622 Charcot Ave, Suite E	San Jose	95131	433A
17	Applied Materials, Bldgs. 2 & 3	SC-092A	3300 Scott Blvd	Santa Clara	95054	>25K GPD, 433A
18	Arnold's Metal Finishing	SC-369B	805 Aldo Ave, Unit 104	Santa Clara	95054	433A
19	Averatek Corp.	SC-406B	550 Nuttman St	Santa Clara	95054	433A
20	B R & F Spray	SC-449Z	3380 De la Cruz Blvd	Santa Clara	95054	433A
21	Babbitt Bearing Company, Inc.	SJ-555Z	1170 N 5th St	San Jose	95112	433A
22	Beam On Technology	SC-355B	2318 Calle de Luna	Santa Clara	95054	433A
23	Bess Testlab Inc. dba Bess MTI, Inc.	SC-465B	991 George St	Santa Clara	95054	433A
24	Bi-CMOS Foundry	SC-349B	975 Comstock St	Santa Clara	95054	469A
25	California Auto Tinting and Polishing	WV-059Z	130 E Sunnyoaks Ave	Campbell	95008	433A
26	Calpine Corp. dba Los Esteros Critical Energy	SJ-488A	800 Thomas Foon Chew Way	San Jose	95134	423
27	Cirexx International, Inc	SC-428B	3391 Keller St	Santa Clara	95054	433A
28	Clean Harbors San Jose, LLC	SJ-487A	1021 Berryessa Rd	San Jose	95133	437D
29	Coast Engraving, Inc.	SJ-612B	1097 N 5th St	San Jose	95112	433A
30	Cobham Advanced Electronic Solutions	SJ-591B	5350 Hellyer Ave	San Jose	95138	433A, 469A
31	Coherent, Inc.	SC-173B	5100 Patrick Henry Dr	Santa Clara	95054	469A
32	Cordova Printed Circuits	MI-017B	1648 Watson Ct	Milpitas	95035	433A
33	Cortec Precision Sheetmetal	SJ-658Z	2231 Will Wool Dr	San Jose	95112	433A
34	Crain Cutter Co. Inc.	MI-070C	1155 Wrigley Way	Milpitas	95035	433A
35	Crea, LLC	SC-441B	807 Aldo Ave, # 107	Santa Clara	95054	433A

Updated List of Regulated SIUs - 2017

	Company Name	Permit No.	Address	City	Zip	Reason SIU
36	Crystallume Corporation	SC-312B	3397 De la Cruz Blvd	Santa Clara	95054	433A
37	CSL Operating, LLC	SC-427B	529 Aldo Ave	Santa Clara	95054	433A
38	Du All Anodizing Company	SJ-010B	730 Chestnut St	San Jose	95110	433A
39	DVR Power Plant, dba Silicon Valley Power	SC-354B	850 Duane Ave	Santa Clara	95054	423
40	Eagle Tech, Inc.	SJ-520B	2299 Ringwood Ave, Unit C-3	San Jose	95131	433A
41	E-Fab, Inc.	SC-096B	1075 Richard Ave	Santa Clara	95050	433A
42	Elcon Precision, LLC	SJ-640B	1009 Timothy Dr	San Jose	95133	433A
43	Electropolishing Shop	SC-424Z	3475 Victor St, Unit A	Santa Clara	95054	433A
44	ENS Technology LLC	SC-252A	3165 Molinaro St	Santa Clara	95054	433A
45	EPZ, Inc.	SC-458B	2262 Calle Del Mundo	Santa Clara	95054	433A
46	Etched Media Corporation	WV-073Z	101 Gilman Ave	Campbell	95008	433A
47	Evoqua Water Technologies LLC	MI-145B	960 Ames Ave	Milpitas	95035	>25K GPD
48	Flex Interconnect Technologies	MI-116B	1603 Watson Ct	Milpitas	95035	433A
49	Four-D Metal Finishing, Inc.	SC-447B	1065 Memorex Dr	Santa Clara	95050	433A
50	Fujifilm Dimatix, Inc.	SC-422B	2230 Martin Ave	Santa Clara	95050	433A
51	Glencore Recycling, LLC	SJ-556Z	1695 Monterey Rd	San Jose	95112	421X
52	Gold Plating Services, Inc.	SC-432Z	3475 Victor St, Unit C	Santa Clara	95054	433A
53	Gordon Biersch Brewing Company, Inc.	SJ-352C	357 E Taylor St	San Jose	95112	>25K GPD
54	Gorilla Circuits	SJ-449B	1509 Berger Dr	San Jose	95112	433A
55	Graphic Packaging International, Inc.	SC-412A	2600 De La Cruz Blvd	Santa Clara	95050	430J
56	Grinding, Dicing Services, Inc. dba GDSI	SJ-599B	925 Berryessa Rd	San Jose	95133	469A
57	Hane & Hane, Inc. dba University Plating	SJ-687B	650 University Ave	San Jose	95110	433A
58	Harbor Electronics, Inc.	SC-462B	3021 Kenneth St	Santa Clara	95054	433A
59	Haro's Anodizing Specialists	SC-222B	630 Walsh Ave	Santa Clara	95050	433A
60	Headway Technologies, Inc.	MI-057A	497 S Hillview Dr	Milpitas	95035	433A
61	Headway Technologies, Inc. STT Bldg 5	MI-118B	463 S Milpitas Blvd	Milpitas	95035	433A, 469A
62	HGST, Inc.	SJ-495A	5601 Great Oaks Pkwy	San Jose	95119	433A
63	INTA Technologies	SC-307B	2281 Calle de Luna	Santa Clara	95054	433A
64	Intel Corporation, SC1/SC2	SC-440A	3065 Bowers Ave	Santa Clara	95054	433A
65	International Disposal Corporation, Inc	SJ-437A	700 Los Esteros Rd	San Jose	95134	>25K GPD
66	Intevac, Inc.	SC-259B	3580 Bassett St	Santa Clara	95054	469A
67	Italix Company, Inc.	SC-410Z	2232 Calle del Mundo	Santa Clara	95054	433A
68	J & B Enterprises	SC-388Z	1650 Russell Ave	Santa Clara	95054	421X
69	Johnson Matthey, Inc	SJ-574Z	1070 Commercial St, Suite 108	San Jose	95112	471C

Updated List of Regulated SIUs - 2017

	Company Name	Permit No.	Address	City	Zip	Reason SIU
70	Kearney Pattern Works and Foundry	SJ-557Z	40 S Montgomery St	San Jose	95110	464A, 464B
71	Kion Technology, Inc.	SJ-191B	2190 Old Oakland Rd	San Jose	95131	433A
72	KLA-Tencor Corporation	MI-137B	5 Technology Dr	Milpitas	95035	433A
73	KMIC Technology, Inc.	SJ-561B	2095 Ringwood Ave, Suite 10	San Jose	95131	433A
74	Leiter's Enterprises, Inc. dba Leiter's Compounding Pharmacy	SJ-001NSC	17 Great Oaks Blvd	San Jose	95119	439D
75	Leiter's	SJ-002NSC	6541 Via Del Oro, Suite B	San Jose	95119	439D
76	Lenthor Engineering, Inc.	MI-141B	311 Turquoise St	Milpitas	95035	433A
77	List Biological Laboratories, Inc	WV-064B	540 Division St	Campbell	95008	439A
78	Lumentum Operations LLC	SJ-674B	1750 Automation Pkwy	San Jose	95131	433A
79	Lumentum Operations, LLC	SJ-673B	80 Rose Orchard Way	San Jose	95134	469A
80	Lumileds LLC	SJ-528B	370 W Trimble Rd	San Jose	95131	469A
81	Magic Spray	SC-453Z	930 George St	Santa Clara	95054	433A
82	Mannington Mills dba Burke Industries	SJ-594B	2250 S 10th St	San Jose	95112	428G
83	Mantrex, Inc. dba Wit Sales & Refining	SJ-559Z	538 Phelan Ave	San Jose	95112	421X
84	Mass Precision, Inc.	SJ-664B	2110 Oakland Rd	San Jose	95131	433A
85	Metal Finishing Solutions, Inc.	SC-438B	870 Comstock St	Santa Clara	95054	433A
86	Metcalf Energy Center LLC	SJ-515B	1 Blanchard Rd	Coyote	95013	423
87	Microsemi, Inc.	SC-380B	3000 Oakmead Village Dr	Santa Clara	95051	469A
88	Mohawk Packing, Div. of John Morrell	SJ-373C	1660 Old Bayshore Hwy	San Jose	95112	>25K GPD
89	Momentum Technologies Corp. dba Momentum Metal Finishing	SC-381B	1232 Memorex Dr	Santa Clara	95050	433A
90	M-Pulse Microwave, Inc.	SJ-035B	576 Charcot Ave	San Jose	95131	469A
91	Newport Corporation	SC-416B	3635 Peterson Way	Santa Clara	95054	433A
92	Noel Technologies, Inc.	WV-071B	1510 Dell Ave	Campbell	95008	433A, 469A
93	OLS Energy-Agnews, Inc.	SJ-388B	3800 Cisco Way	San Jose	95134	423
94	Pacific Coast Metal, Inc.	SJ-677Z	2109 O'Toole Ave, Suite A	San Jose	95131	433A
95	Pacific Photo Lithography	SC-460Z	1440 Norman Ave	Santa Clara	95054	433A
96	PacTech USA	SC-343B	328 Martin Ave	Santa Clara	95050	433A
97	Process Stainless Lab, Inc.	SC-276B	1280 Memorex Dr	Santa Clara	95050	433A
98	Prodigy Surface Tech, Inc.	SC-344B	807 Aldo Ave, Suite 103	Santa Clara	95054	433A
99	Prudential Overall Supply	MI-040B	1429 N Milpitas Blvd	Milpitas	95035	>25K GPD
100	Quality Plating, Inc.	SJ-079B	1680 Almaden Expy, Suite H & I	San Jose	95125	433A
101	QualTech Circuits, Inc.	SC-345B	1101 Comstock St	Santa Clara	95054	433A
102	QuantumClean	SJ-545B	1710 Ringwood Ave	San Jose	95131	433A
103	R. C. Refinishing	SJ-567Z	1617 Pomona Ave	San Jose	95110	433A
104	Reed & Graham, Inc.	SJ-461B	690 Sunol St	San Jose	95126	443A

Updated List of Regulated SIUs - 2017

	Company Name	Permit No.	Address	City	Zip	Reason SIU
105	S.J. Valley Plating, Inc.	SC-017B	491 Perry Ct	Santa Clara	95054	433A
106	San Jose Die Casting Corp.	SJ-554Z	2475 Autumnvale Dr	San Jose	95131	464A, 464D
107	San Jose State University Cogen Plant	SJ-448B	260 S 9th St	San Jose	95192	>25K GPD
108	Sanmina Corp Plant I	SJ-022A	2101 O'Toole Ave	San Jose	95131	433A
109	Sanmina Corp Plant II	SJ-043A	2068 Bering Dr	San Jose	95131	433A
110	Santa Clara Plating Co.	SC-029B	1769 Grant St	Santa Clara	95050	433A
111	Scientific Metal Finishing, Inc.	SC-450Z	3180 Molinaro St	Santa Clara	95054	433A
112	Semiconductor Tooling Services, Inc.	SJ-657B	6781 Via del Oro	San Jose	95119	433A
113	Silicon Microstructures	MI-108B	1701 McCarthy Blvd	Milpitas	95035	469A
114	Solexel Inc.	MI-143B	1532 McCarthy Blvd	Milpitas	95035	469A
115	Streamline Circuits	SC-350A	1415 Richard Ave	Santa Clara	95050	433A
116	Suez Water Treatment and Technologies, Inc.	SJ-690B	5900 Silver Creek Valley Rd	San Jose	95138	>25K GPD
117	Sun Surface Technology, Inc.	SJ-510B	950 Rincon Cir	San Jose	95131	433A
118	Swift Metal Finishing	SC-035B	1161 Richard Ave	Santa Clara	95050	433A
119	T. Marzetti Co.- West	MI-004C	876 Yosemite Dr	Milpitas	95035	>25K GPD
120	Telewave, Inc	SJ-471B	660 Giguere Ct	San Jose	95133	433A
121	THAT Corporation	MI-078B	505 Fairview Way	Milpitas	95035	469A
122	The Newark Group, Inc. dba California Paperboard Corp.	SC-459B	525 Mathew St	Santa Clara	95050	430J
123	Thin Film Electronics, Inc.	SJ-685B	2581 Junction Ave	San Jose	95134	469A
124	Triad Tool & Engineering, Inc.	SJ-671Z	1750 Rogers Ave	San Jose	95112	464A, 464D
125	TTM Technologies North America, LLC	SC-374A	359 Mathew St	Santa Clara	95050	433A
126	Uni-Flex Circuits, Inc.	SJ-399B	1782 Angela St	San Jose	95125	433A
127	Universal Semiconductor	SJ-150B	1925 Zanker Rd	San Jose	95112	433A, 469A
128	Vacuum Engineering & Materials Co.	SC-443B	390 Reed St	Santa Clara	95050	471D
129	Varex Imaging	SC-468B	2175 Mission College Blvd	Santa Clara	95054	469A
130	Viasystems Technologies Corporation, LLC dba TTM Technologies	SJ-625B	335 Turtle Creek Ct	San Jose	95125	433A
131	Vishay/Siliconix	SC-282A	2201 Laurelwood Rd	Santa Clara	95054	433A, 469A
132	Wafer Reclaim Services, LLC dba Pure Wafer	SJ-552B	2240 Ringwood Ave	San Jose	95131	433A
133	WD Media, LLC	SJ-551A	1710 Automation Pkwy	San Jose	95131	>25K GPD
134	Winslow Automation, Inc., dba SIX SIGMA	MI-106B	905 Montague Expy	Milpitas	95035	433A

Newly Permitted SIUs - 2017

	Company Name	Permit No.	Address	City	Zip	Reason SIU
1	Analog Devices Inc.	MI-146B	1630 McCarthy Blvd	Milpitas	95035	433A
2	Analog Devices, Inc.	MI-147B	275 S Hillview Dr	Milpitas	95035	469A
3	Bess Testlab Inc. dba Bess MTI, Inc.	SC-465B	991 George St	Santa Clara	95054	433A
4	Hammon Plating	SC-466B	415 Mathew St	Santa Clara	95050	433A
5	Leiter's	SJ-002NSC	6541 Via del Oro, Suite B	San Jose	95119	439D
6	Suez Water Treatment and Technologies, Inc.	SJ-690B	5900 Silver Creek Valley Rd	San Jose	95138	>25K GPD
7	Thin Film Electronics, Inc.	SJ-685B	2581 Junction Ave	San Jose	95134	469A
8	Varex Imaging	SC-468B	2175 Mission College Blvd	Santa Clara	95054	469A

Deleted SIUs - 2017

	Company Name	Permit No.	Address	City	Zip	SIU Reason	Reason for Deletion
1	CBR Circuits, Inc.	MI-140B	116 Minnis Cir	Milpitas	95035	433A	Facility Closure
2	GE Mobile Water, Inc.	SJ-393A	5900 Silver Creek Valley Rd	San Jose	95138	>25K GPD	Change of Ownership and Name
3	Jennings Technology Corporation	SJ-216B	970 McLaughlin Ave	San Jose	95122	433A, 468A	Facility Closure
4	Lenthor Engineering, Inc.	MI-132B	1478 Gladding Ct	Milpitas	95035	433A	Facility Closure
5	Linear Technology Corp.	MI-088B	275 S Hillview Dr	Milpitas	95035	469A	Change of Ownership and Name
6	Linear Technology Corp.	MI-006A	1630 McCarthy Blvd	Milpitas	95035	433A	Change of Ownership and Name
7	Micrel, LLC	SJ-679B	1849 Fortune Dr	San Jose	95131	469A	Facility Closure
8	PerkinElmer, Inc.	SC-264A	2175 Mission College Blvd	Santa Clara	95054	469A	Change of Ownership and Name
9	PK Selective Metal Plating, Inc.	SC-013B	415 Mathew St	Santa Clara	95050	433A	Change of Ownership and Name
10	Superior Chrome	SJ-263B	1616 Pomona Ave	San Jose	95110	433A	Facility Closure
11	Thin Film Electronics, Inc.	SJ-665B	2865 Zanker Rd	San Jose	95132	469A	Facility Moved Within Jurisdiction
12	United Supertek, Inc.	SJ-122B	118 Charcot Ave	San Jose	95131	433A	Facility Closure
13	Vector Fabrication	MI-059B	1629 Watson Ct	Milpitas	95035	433A	Ceased Operations

Enforcement Summary 2017

This section contains a summary of compliance and enforcement activities during 2017. Note the following tables list enforcement actions "issued" in 2017. Therefore, some enforcement actions in 2017 were issued for 2016 City of San José (City) sample results or self monitoring report violations that were not available until after January 1, 2017. In addition, some of the later 2017 violations listed in the 2017 Second Semi-Annual Industrial User Violation Report will also not be included until the 2018 Annual Report since some of the enforcement actions were not issued until January 2018. The following summarizes where in the section (or in other report sections) the various enforcement actions are located:

- The tables entitled "Compliance Activities 2017" lists each significant industrial user (SIU) alphabetically with a summary of the number of City inspections, and City and IU sampling events for each quarter in 2017. This table also provides the compliance status for each quarter and a summary of all the enforcement actions that were issued for each site in 2017.
- Administrative Orders – None were issued in 2017.
- Civil Actions – None were issued in 2017.
- Criminal Actions – None were issued in 2017.
- Assessment of monetary penalties – The table entitled "Table of Administrative Citations Issued in 2017" lists all the Administrative Citations issued for violations of the City's Industrial Waste Discharge Regulations in 2017.
- Order to restrict/suspend discharge to the San José-Santa Clara Regional Wastewater Facility (Wastewater Facility) – None were issued in 2017.
- Order to disconnect a discharge from entering the Wastewater Facility – None were issued in 2017.

Compliance Activities 2017

San José-Santa Clara Regional Wastewater Facility

FACILITY NAME AND ADDRESS	PERMIT	QTR	INSPECTIONS	SAMPLES		COMPLIANCE STATUS	NOTES
				POTW	IU		
A & E Anodizing 652 Charles St, Suite A San Jose, CA 95112 40 CFR 433.17 Subpart A	SJ-314B	1	1	2	4	IF/IL	A Notice of Violation, Administrative Citation, and Compliance Schedule (from 3/15/2017 Compliance Meeting) were issued for failing to protect from Accidental Discharge, and federal daily maximum nickel and zinc concentration limit violations, and local maximum allowable chromium, copper, nickel, and zinc concentration limit violations in the first quarter of 2017. A Warning Notice was issued for inappropriate sample frequency, a permit condition violation, in the fourth quarter of 2017.
		2				NS	
		3	1	2		CC	
		4			1	IF/IL	
Advanced Component Labs 990 Richard Ave, Unit 118 Santa Clara, CA 95050 40 CFR 433.17 Subpart A	SC-360B	1	1		1	CC	Consistent Compliance in 2017.
		2		2		CC	
		3			1	CC	
		4	1	1		CC	
Advanced Electropolishing Technologies 398 Railroad Ct Milpitas, CA 95035 40 CFR 433.17 Subpart A	MI-120B	1		1		CC	A Warning Notice was issued for federal and local pH violations in the first quarter of 2017. A Warning Notice was issued for failure to analyze samples using 40 CFR 136 methods, a permit condition violation, in the second quarter of 2017.
		2	2		2	IF/IL	
		3		1		CC	
		4	1		1	CC	
Advanced Surface Finishing Inc.* 1181 N 4th St, Suite 50 San Jose, CA 95112 40 CFR 433.17 Subpart A	SJ-514B	1	1		1	CC	Consistent Compliance in 2017.
		2		1		CC	
		3	2		1	CC	
		4		2		CC	

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Compliance Activities 2017

San José-Santa Clara Regional Wastewater Facility

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				POTW	IU		
Agilent Technologies, Inc. 5301 Stevens Creek Blvd Santa Clara, CA 95051 40 CFR 433.17 Subpart A	SC-454B	1			1	CC	Consistent Compliance in 2017.
		2	1	1		CC	
		3	1		1	CC	
		4		1		CC	
Ahead Magnetics dba AheadTek* 6410 Via del Oro San Jose, CA 95119 40 CFR 433.17 Subpart A	SJ-500B	1	1		1	CC	Consistent Compliance in 2017.
		2	1	1		CC	
		3	1		1	CC	
		4		1		CC	
Allergan 503 Vandell Way Campbell, CA 95008 40 CFR 439 Subpart A	WV-072B	1			1	CC	Consistent Compliance in 2017.
		2	1	1		CC	
		3			1	CC	
		4	1	1		CC	
Alsco 2275 Junction Ave San Jose, CA 95131 SIU based on flow	SJ-546B	1	1	6	1	CC	A Notice of Violation was issued for two IU reported local pH violations that lasted five minutes and two minutes, for two IU reported local and federal pH violations that lasted three minutes and one minute and for failure to maintain continuous pH recorder during the first quarter of 2018.
		2	2	7		IL	
		3	2	6	1	IF/IL	
		4		7		IL	
Altaflex, Inc.* 336 Martin Ave Santa Clara, CA 95050 40 CFR 433.17 Subpart A	SC-316B	1		1		CC	Consistent Compliance in 2017.
		2	1		1	CC	
		3		1		CC	
		4	1		1	CC	

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Compliance Activities 2017

San José-Santa Clara Regional Wastewater Facility

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				POTW	IU		
Amalar, Inc. 2317 Calle de Luna Santa Clara, CA 95054 40 CFR 433.17 Subpart A	SC-134B	1	1	1	1	SNF/SNL	A Notice of Violation and Compliance Schedule (from 1/24/2017 Compliance Meeting) were issued for late submittal of an SMR, 61 to 90 days late, in the first quarter of 2017. The SNF/SNL status in the first quarter was based on late submittal of an SMR, greater than 45 days late. A Notice of Violation and Compliance Schedule (from 11/30/2017 Compliance Meeting) was issued for inappropriate sample frequency, a permit condition violation, in the fourth quarter of 2017.
		2				NS	
		3	1	1		CC	
		4			1	IF/IL	
Amex Plating, Inc.* 3333 Woodward Ave Santa Clara, CA 95054 40 CFR 433.17 Subpart A	SC-182B	1	2		1	IF/IL	A Warning Notice was issued for inappropriate sample frequency, a permit condition violation, in the first quarter of 2017. A Warning Notice was issued for a federal monthly average zinc concentration limit and for federal and local failure to report violations in the third quarter of 2017.
		2		1		CC	
		3	1		1	IF/IL	
		4		2	1	CC	
Analog Devices Inc. 1630 McCarthy Blvd Milpitas, CA 95035 40 CFR 433.17 Subpart A	MI-146B	1				UN	Consistent compliance in 2017. The IU was formerly named Linear Technology Corp. and was permitted under permit number MI-006A.
		2	1			UN	
		3		1	1	CC	
		4	1			NS	
Analog Devices, Inc.* 275 S Hillview Dr Milpitas, CA 95035 40 CFR 469 Subpart A	MI-147B	1				UN	Consistent Compliance in 2017. The IU was formerly named Linear Technology Corp. and was permitted under permit number MI-088B.
		2	1			UN	
		3		6	1	CC	
		4	1	1		NS	

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Compliance Activities 2017

San José-Santa Clara Regional Wastewater Facility

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				POTW	IU		
APCT, Inc. 3495 De la Cruz Blvd Santa Clara, CA 95054 40 CFR 433.17 Subpart A	SC-434A	1	1	1	1	CC	A Notice of Violation was issued for local pH violations that lasted 15 minutes and three hours and for local failure to report violations in the third quarter of 2017. A Notice of Violation was issued for a federal and local pH violation that lasted two minutes and for local failure to report the violation in the fourth quarter of 2017.
		2	1	1	1	IL	
		3	1	1		IL	
		4	1	1	1	CC	
Apple, Inc.* 3250 Scott Blvd Santa Clara, CA 95054 40 CFR 469 Subpart A	SC-461B	1		8	1	CC	Consistent Compliance in 2017.
		2	1	6		NS	
		3	1	10	1	CC	
		4		6		CC	
Applied Anodize, Inc.* 622 Charcot Ave, Suite E San Jose, CA 95131 40 CFR 433.17 Subpart A	SJ-025B	1		1	2	CC	A Warning Notice was issued for a local pH violation that lasted five minutes and for local failure to report violation in the third quarter of 2017.
		2	2	3	2	CC	
		3	2		1	IL	
		4		1		CC	
Applied Materials, Bldgs. 2 & 3 3300 Scott Blvd Santa Clara, CA 95054 SIU based on flow	SC-092A	1			1	IF/IL	Zero Categorical Discharger. The IU has a sample point from a non-categorical process. A Warning Notice was issued for inappropriate sample frequency, a permit condition violation, in the first quarter of 2017. The IU was re-permitted in the second quarter of 2017 due to a significant change.
		2	2	1		CC	
		3			1	CC	
		4	1	1		CC	
Arnold's Metal Finishing* 805 Aldo Ave, Unit 104 Santa Clara, CA 95054 40 CFR 433.17 Subpart A	SC-369B	1	1			NS	A Notice of Violation was issued for federal monthly average, federal daily maximum, and local maximum allowable nickel concentration limit violations in the fourth quarter of 2017. The SNF status in the fourth quarter of 2017 was based on the number of samples exceeding the federal monthly average nickel concentration limit TRC 33%+ criteria.
		2		1	1	CC	
		3	2			NS	
		4	1	3	1	SNF/IL	

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Compliance Activities 2017

San José-Santa Clara Regional Wastewater Facility

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				POTW	IU		
Averatek Corp.* 550 Nuttman St Santa Clara, CA 95054 40 CFR 433.17 Subpart A	SC-406B	1		1	1	CC	Consistent Compliance in 2017.
		2	1			NS	
		3				NS	
		4	1	1	1	CC	
B R & F Spray 3380 De la Cruz Blvd Santa Clara, CA 95054 40 CFR 433.17 Subpart A	SC-449Z	1				NS	Zero Categorical Discharger. Consistent Compliance in 2017.
		2	1			NS	
		3				NS	
		4	1			NS	
Babbitt Bearing Company, Inc. 1170 N 5th St San Jose, CA 95112 40 CFR 433.17 Subpart A	SJ-555Z	1				IL	Zero Categorical Discharger. A Verbal Warning was issued for late submittal of an Zero Discharge Certification (ZDC), five to 15 days late, in the first quarter of 2017.
		2	1			NS	
		3				NS	
		4	2			NS	
Beam On Technology 2318 Calle de Luna Santa Clara, CA 95054 40 CFR 433.17 Subpart A	SC-355B	1		1		CC	Zero Categorical Discharger. The IU has a sample point from a non-categorical process. A Notice of Violation and Compliance Schedule (from 8/3/2017 Compliance Meeting) was issued for inappropriate sample frequency, a permit condition violation, in the second quarter of 2017.
		2	1		1	IF/IL	
		3	1	1	1	CC	
		4				NS	
Bess Testlab Inc. dba Bess MTI, Inc. 991 George St Santa Clara, CA 95054 40 CFR 433.17 Subpart A	SC-465B	1				UN	Consistent Compliance in 2017. The IU was issued permit number SC-465B in the fourth quarter of 2017.
		2				UN	
		3	2			UN	
		4				NS	

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				POTW	IU		
Bi-CMOS Foundry 975 Comstock St Santa Clara, CA 95054 40 CFR 469 Subpart A	SC-349B	1	1	1		CC	Consistent Compliance in 2017.
		2			1	CC	
		3	1	1		CC	
		4			1	CC	
California Auto Tinting and Polishing 130 E Sunnyoaks Ave Campbell, CA 95008 40 CFR 433.17 Subpart A	WV-059Z	1				NS	Zero Categorical Discharger. Consistent Compliance in 2017.
		2	1			NS	
		3	1			NS	
		4				NS	
Calpine Corp. dba Los Esteros Critical Energy 800 Thomas Foon Chew Way San Jose, CA 95134 40 CFR 423	SJ-488A	1	1		1	CC	Consistent Compliance in 2017.
		2		2		CC	
		3	1		1	CC	
		4	2	1		CC	
CBR Circuits, Inc. 116 Minnis Cir Milpitas, CA 95035 40 CFR 433.17 Subpart A	MI-140B	1				NS	Consistent Compliance in 2017. The IU ceased discharge and was de-permitted in the second quarter of 2017.
		2	2			NS	
		3				NS	
		4				NS	
Cirexx International, Inc 3391 Keller St Santa Clara, CA 95054 40 CFR 433.17 Subpart A	SC-428B	1	1	1	1	CC	Consistent Compliance in 2017.
		2	1	1	1	CC	
		3	1	1	1	CC	
		4	1	1	1	CC	

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				POTW	IU		
Clean Harbors San Jose, LLC* 1021 Berryessa Rd San Jose, CA 95133 40 CFR 437.47 Subpart D	SJ-487A	1	1	12	4	CC	A Verbal Warning was issued for federal monthly average and federal daily maximum silver concentration limit violations in the first quarter of 2017. Two Notices of Violation, and two Administrative Citations were issued for local maximum allowable total cyanide concentration limit violations in the fourth quarter of 2017. A Compliance Schedule will be issued in the first quarter of 2018.
		2	1	10	3	CC	
		3	1	10	2	CC	
		4	2	11	5	IL	
Coast Engraving, Inc.* 1097 N 5th St San Jose, CA 95112 40 CFR 433.17 Subpart A	SJ-612B	1	1	1		CC	Consistent Compliance in 2017.
		2			1	CC	
		3	1	1		CC	
		4			1	CC	
Cobham Advanced Electronic Solutions* 5350 Hellyer Ave San Jose, CA 95138-1003 40 CFR 433.17 Subpart A 40 CFR 469 Subpart A	SJ-591B	1		2	1	CC	Consistent Compliance in 2017.
		2	1			NS	
		3	1	1	1	CC	
		4				NS	
Coherent, Inc.* 5100 Patrick Henry Dr Santa Clara, CA 95054 40 CFR 469 Subpart A	SC-173B	1				NS	Consistent Compliance in 2017.
		2	1	1	1	CC	
		3	1			NS	
		4	1	1	1	CC	

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				POTW	IU		
Cordova Printed Circuits 1648 Watson Ct Milpitas, CA 95035 40 CFR 433.17 Subpart A	MI-017B	1	2	1	1	IL	A Warning Notice was issued for failure to maintain pretreatment equipment, a permit condition violation, and for late submittal of a Compliance Agreement action item, 31 to 45 days late, in the second quarter of 2017.
		2	1	4		IL	
		3	1	4	1	CC	
		4		2		CC	
Cortec Precision Sheetmetal 2231 Will Wool Dr San Jose, CA 95112 40 CFR 433.17 Subpart A	SJ-658Z	1				NS	Zero Categorical Discharger. Consistent Compliance in 2017.
		2	1			NS	
		3				NS	
		4	1			NS	
Crain Cutter Co. Inc.* 1155 Wrigley Way Milpitas, CA 95035 40 CFR 433.17 Subpart A	MI-070C	1	1			NS	Consistent Compliance in 2017. No discharge in 2017.
		2				NS	
		3	1			NS	
		4				NS	
Crea, LLC 807 Aldo Ave, # 107 Santa Clara, CA 95054 40 CFR 433.17 Subpart A	SC-441B	1				NS	Consistent Compliance in 2017. No discharge in 2017.
		2	1			NS	
		3				NS	
		4	1			NS	
Crystallume Corporation 3397 De la Cruz Blvd Santa Clara, CA 95054 40 CFR 433.17 Subpart A	SC-312B	1	1			NS	Consistent Compliance in 2017.
		2		1	1	CC	
		3				NS	
		4	1	1	1	CC	

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				POTW	IU		
CSL Operating, LLC 529 Aldo Ave Santa Clara, CA 95054 40 CFR 433.17 Subpart A	SC-427B	1		1		CC	Consistent Compliance in 2017.
		2	1		1	CC	
		3		1		CC	
		4	1		1	CC	
Du All Anodizing Company 730 Chestnut St San Jose, CA 95110 40 CFR 433.17 Subpart A	SJ-010B	1			1	CC	Consistent Compliance in 2017.
		2	1	1		CC	
		3	2	1		CC	
		4			1	CC	
DVR Power Plant, dba Silicon Valley Power 850 Duane Ave Santa Clara, CA 95054 40 CFR 423	SC-354B	1	1	1		CC	A Warning Notice was issued for inappropriate sample frequency, a permit condition violation, in the second quarter of 2017.
		2			1	IF/IL	
		3		1		CC	
		4	1		1	CC	
Eagle Tech, Inc. 2299 Ringwood Ave, Unit C-3 San Jose, CA 95131 40 CFR 433.17 Subpart A	SJ-520B	1	1		1	CC	A Notice of Violation was issued for three federal and local pH violations that lasted two minutes each and for federal and local failure to report violations in the third quarter of 2017.
		2		1		CC	
		3	1		1	IF/IL	
		4		1		CC	
E-Fab, Inc. 1075 Richard Ave Santa Clara, CA 95050 40 CFR 433.17 Subpart A	SC-096B	1			1	CC	Consistent Compliance in 2017.
		2	1	1		CC	
		3	1		1	CC	
		4		1		CC	

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				POTW	IU		
Elcon Precision, LLC* 1009 Timothy Dr San Jose, CA 95133 40 CFR 433.17 Subpart A	SJ-640B	1			1	CC	Consistent Compliance in 2017.
		2	1	2		CC	
		3	1		1	CC	
		4		1		CC	
Electropolishing Shop 3475 Victor St, Unit A Santa Clara, CA 95054 40 CFR 433.17 Subpart A	SC-424Z	1				NS	Zero Categorical Discharger. Consistent Compliance in 2017.
		2	1			NS	
		3				NS	
		4	1			NS	
ENS Technology LLC 3165 Molinaro St Santa Clara, CA 95054 40 CFR 433.17 Subpart A	SC-252A	1	1	2	1	CC	Consistent Compliance in 2017. A Verbal Warning was issued for a federal monthly average total cyanide concentration limit violation in the third quarter of 2017.
		2	1	1	1	CC	
		3	2	2	1	CC	
		4	1	1	2	CC	
EPZ, Inc.* 2262 Calle Del Mundo Santa Clara, CA 95054 40 CFR 433.17 Subpart A	SC-458B	1	1			NS	A Warning Notice was issued for a local maximum allowable nickel concentration limit violation in the second quarter of 2017.
		2	1	2	2	IL	
		3	1		1	CC	
		4		1		CC	

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Compliance Activities 2017

San José-Santa Clara Regional Wastewater Facility

FACILITY NAME AND ADDRESS	PERMIT	QTR	INSPECTIONS	SAMPLES		COMPLIANCE STATUS	NOTES
				POTW	IU		
Etched Media Corporation 101 Gilman Ave Campbell, CA 95008 40 CFR 433.17 Subpart A	WV-068B	1 2 3 4	1 1	1		IF/SNL NS NS NS	A Notice of Violation and Compliance Schedule (from 5/24/2017 Compliance Meeting) were issued for local maximum allowable copper, silver, and zinc concentration limit violations, and failure to notify of significant change, failure to provide pretreatment, and failure to provide monitoring facilities in the first quarter of 2017. The SNL status in the first quarter of 2017 was based on the number of samples exceeding the local maximum allowable copper, silver, and zinc concentration limits chronic 66%+ and TRC 33%+ criteria. Only one sample was collected in the first quarter of 2017. The IU was re-permitted in the second quarter of 2017 due to a significant change. The IU has been re-permitted under permit number WV-068Z.
Etched Media Corporation 101 Gilman Ave Campbell, CA 95008 40 CFR 433.17 Subpart A	WV-073Z	1 2 3 4	 1 1			IF/SNL NS NS NS	A Notice of Violation and Compliance Schedule (from 5/24/2017 Compliance Meeting) were issued for local maximum allowable copper, silver, and zinc concentration limit violations, and failure to notify of significant change, failure to provide pretreatment, and failure to provide monitoring facilities in the first quarter of 2017. The SNL status in the first quarter of 2017 was based on the number of samples exceeding the local maximum allowable copper, silver, and zinc concentration limits chronic 66%+ and TRC 33%+ criteria. Only one sample was collected in the first quarter of 2017. The IU was re-permitted in the second quarter of 2017 due to a significant change. The IU has been re-permitted under permit number WV-068Z.
Evoqua Water Technologies LLC 960 Ames Ave Milpitas, CA 95035 SIU based on flow	MI-145B	1 2 3 4	1 1 	4 1 4 1	 1 1	CC CC CC CC	Consistent Compliance in 2017.

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				POTW	IU		
Flex Interconnect Technologies	MI-116B	1			1	CC	Consistent Compliance in 2017.
		2	1	1		CC	
1603 Watson Ct		3			1	CC	
Milpitas, CA 95035		4	1	1		CC	
40 CFR 433.17 Subpart A							
Four-D Metal Finishing, Inc.*	SC-447B	1	1	1		CC	Consistent Compliance in 2017.
		2			1	CC	
1065 Memorex Dr		3	1	1		CC	
Santa Clara, CA 95050		4			1	CC	
40 CFR 433.17 Subpart A							
Fujifilm Dimatix, Inc.	SC-422B	1		1	1	CC	Consistent Compliance in 2017.
		2	1			NS	
2230 Martin Ave		3		1	1	CC	
Santa Clara, CA 95050-2704		4	1			NS	
40 CFR 433.17 Subpart A							
GE Mobile Water, Inc.	SJ-393A	1		7	1	CC	Consistent Compliance in 2017. The IU changed ownership in the third quarter of 2017. The IU name changed to Suez Water Treatment and Technologies, Inc. and will be re-permitted under permit number SJ-690B.
		2	1	6		NS	
5900 Silver Creek Valley Rd		3				NS	
San Jose, CA 95138		4				NS	
SIU based on flow							
Glencore Recycling, LLC	SJ-556Z	1				NS	Zero Categorical Discharger. Consistent Compliance in 2017.
		2	1			NS	
1695 Monterey Rd		3				NS	
San Jose, CA 95112		4	1			NS	
40 CFR 421 Subpart X							

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				POTW	IU		
Gold Plating Services, Inc. 3475 Victor St, Unit C Santa Clara, CA 95054 40 CFR 433.17 Subpart A	SC-432Z	1				IL	Zero Categorical Discharger. A Warning Notice was issued for late submittal of a Zero Discharge Certificate (ZDC), 16 to 30 days late, in the first quarter of 2017. A Verbal Warning was issued for failure to maintain flow logs, a permit condition violation and a Warning Notice was issued for late submittal of a ZDC, 16 to 30 days late, in the third quarter of 2017. A Warning Notice was issued for failure to maintain flow logs, a permit condition violation, in the fourth quarter of 2017.
		2	1			IL	
		3				IL	
		4	1			IL	
Gordon Biersch Brewing Company, Inc. 357 E Taylor St San Jose, CA 95112-3105 SIU based on flow	SJ-352C	1	1	7		CC	Consistent Compliance in 2017.
		2	1	6	1	CC	
		3	1	7		CC	
		4		6	1	CC	
Gorilla Circuits 1509 Berger Dr San Jose, CA 95112 40 CFR 433.17 Subpart A	SJ-449B	1	1	8	1	CC	Consistent compliance in 2017.
		2		6		NS	
		3	1	7	1	CC	
		4	2	7		CC	
Graphic Packaging International, Inc. 2600 De La Cruz Blvd Santa Clara, CA 95050 40 CFR 430 Subpart J	SC-412A	1		7	1	CC	Consistent Compliance in 2017.
		2	1	6		NS	
		3	1	9	1	CC	
		4		6		NS	

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				POTW	IU		
Grinding, Dicing Services, Inc. dba GDSI 925 Berryessa Rd San Jose, CA 95133 40 CFR 469 Subpart A	SJ-599B	1			1	IF/IL	A Warning Notice was issued for inappropriate sample frequency, a permit condition violation, in the first quarter of 2017.
		2	1	1	1	CC	
		3				NS	
		4	1	1	1	CC	
Hammon Plating 415 Mathew St Santa Clara, CA 95050 40 CFR 433.17 Subpart A	SC-466B	1				UN	Consistent Compliance in 2017. No discharge in 2017. The IU was formerly named PK Selective Metal Plating, Inc., and was permitted under permit number SC-013B.
		2	1			NS	
		3				NS	
		4	1			NS	
Hane & Hane, Inc. dba University Plating 650 University Ave San Jose, CA 95110 40 CFR 433.17 Subpart A	SJ-028B	1	1	1	1	CC	A Warning Notice was issued for inappropriate sample frequency, a permit condition violation, in the second quarter of 2017. The IU changed ownership in the third quarter of 2017. The IU name changed to Hane & Hane Inc. dba: University Plating and was formerly permitted under permit SJ-028B and was re-permitted under permit number SJ-687B.
		2	1	1	1	IF/IL	
		3	1	1	1	CC	
		4				NS	
Hane & Hane, Inc. dba University Plating 650 University Ave San Jose, CA 95110 40 CFR 433.17 Subpart A	SJ-687B	1				CC	A Warning Notice was issued for inappropriate sample frequency, a permit condition violation, in the second quarter of 2017. The IU changed ownership in the third quarter of 2017. The IU name changed to Hane & Hane Inc. dba: University Plating and was formerly permitted under permit SJ-028B and was re-permitted under permit number SJ-687B.
		2				IF/IL	
		3				CC	
		4		1	1	NS	
Harbor Electronics, Inc. 3021 Kenneth St Santa Clara, CA 95054 40 CFR 433.17 Subpart A	SC-462B	1	1	1	2	CC	A Notice of Violation and Compliance Schedule (from 5/31/2017 Compliance Meeting) was issued for a federal monthly average, federal daily maximum, and local maximum allowable copper concentration limit violation in the second quarter of 2017.
		2	1	1	2	CC	
		3	1	6	6	CC	
		4	1	1	2	CC	

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				POTW	IU		
Haro's Anodizing Specialists* 630 Walsh Ave Santa Clara, CA 95050 40 CFR 433.17 Subpart A	SC-222B	1	1		2	CC	Consistent Compliance in 2017.
		2		1		CC	
		3	1		1	CC	
		4		1		CC	
Headway Technologies, Inc. STT Bldg 5 463 S Milpitas Blvd Milpitas, CA 95035 40 CFR 433.17 Subpart A 40 CFR 469 Subpart A	MI-118B	1		4	1	CC	Consistent Compliance in 2017. A Warning Notice was issued for IU reported federal and local pH violations that lasted one and three minutes in the fourth quarter of 2017.
		2	1	2		CC	
		3		5	1	CC	
		4	1	2		CC	
Headway Technologies, Inc. 497 S Hillview Dr Milpitas, CA 95035 40 CFR 433.17 Subpart A	MI-057A	1		3		CC	Consistent Compliance in 2017.
		2	1	2	1	CC	
		3		4	1	CC	
		4	1	1		CC	
HGST, Inc. 5601 Great Oaks Pkwy San Jose, CA 95119 40 CFR 433.17 Subpart A	SJ-495A	1	1	7	1	CC	Consistent Compliance in 2017.
		2	1	7	1	CC	
		3	1	7	1	CC	
		4	1	7		CC	

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				POTW	IU		
INTA Technologies 2281 Calle de Luna Santa Clara, CA 95054 40 CFR 433.17 Subpart A	SC-307B	1	1	1	1	CC	Consistent Compliance in 2017.
		2				NS	
		3	1	1	1	CC	
		4				NS	
Intel Corporation, SC1/SC2* 3065 Bowers Ave Santa Clara, CA 95054 40 CFR 433.17 Subpart A	SC-440A	1			1	CC	Consistent Compliance in 2017.
		2	1	4		CC	
		3	1			NS	
		4	1	1		CC	
International Disposal Corporation, Inc 700 Los Esteros Rd San Jose, CA 95134 SIU based on flow	SJ-437A	1		1		CC	A Verbal Warning was issued for a local maximum allowable copper concentration limit violation in the fourth quarter of 2017. Consistent compliance in 2017.
		2	1		1	CC	
		3	1	1		CC	
		4	1	1	2	CC	
Intevac, Inc. 3580 Bassett St Santa Clara, CA 95054-2704 40 CFR 469 Subpart A	SC-259B	1		1	1	CC	A Notice of Violation was issued for IU reported federal and local pH violations that lasted four minutes, and for failure to protect against accidental discharge, in the third quarter of 2017.
		2	2			NS	
		3	1	1	1	IL	
		4	1			NS	
Italix Company, Inc. 2232 Calle del Mundo Santa Clara, CA 95054 40 CFR 433.17 Subpart A	SC-410Z	1				NS	Zero Categorical Discharger. Consistent Compliance in 2017.
		2	1			NS	
		3				NS	
		4	1			NS	

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				POTW	IU		
J & B Enterprises 1650 Russell Ave Santa Clara, CA 95054 40 CFR 421 Subpart X	SC-388Z	1				NS	Zero Categorical Discharger. Consistent Compliance in 2017.
		2	1			NS	
		3				NS	
		4	1			NS	
Jennings Technology Corporation* 970 McLaughlin Ave San Jose, CA 95122 40 CFR 468 Subpart A 40 CFR 433.17 Subpart A	SJ-216B	1	1	1	2	IF/IL	A Notice of Violation was issued for a federal monthly average total toxic organic concentration limit violation, federal and local failure to report violations, inappropriate sample frequency, and failure to notify of significant change, both permit violations, in the first quarter of 2017. The IU ceased operation and was de-permitted in the third quarter of 2017.
		2	1	1	1	CC	
		3	2			NS	
		4				NS	
Johnson Matthey, Inc 1070 Commercial St, Suite 108 San Jose, CA 95112-1420 40 CFR 471 Subpart C	SJ-574Z	1	1			NS	Zero Categorical Discharger. Consistent Compliance in 2017.
		2				NS	
		3	1			NS	
		4				NS	
Kearney Pattern Works and Foundry 40 S Montgomery St San Jose, CA 95110 40 CFR 464 Subpart A 40 CFR 464 Subpart B	SJ-557Z	1				NS	Zero Categorical Discharger. Consistent Compliance in 2017.
		2	1			NS	
		3				NS	
		4	1			NS	

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				POTW	IU		
Kion Technology, Inc.* 2190 Old Oakland Rd San Jose, CA 95131 40 CFR 433.17 Subpart A	SJ-191B	1	1		1	CC	Consistent Compliance in 2017.
		2		1		CC	
		3	1		1	CC	
		4		1		CC	
KLA-Tencor Corporation 5 Technology Dr Milpitas, CA 95035 40 CFR 433.17 Subpart A	MI-137B	1		1		CC	Zero Categorical Discharger. The IU has a sample point from a non-categorical process. Consistent Compliance in 2017.
		2	2		1	CC	
		3	1	1		CC	
		4			1	CC	
KMIC Technology, Inc.* 2095 Ringwood Ave, Suite 10 San Jose, CA 95131 40 CFR 433.17 Subpart A	SJ-561B	1				NS	Consistent Compliance in 2017.
		2	1	1	1	CC	
		3				NS	
		4	1	1	1	CC	
Leiter's Enterprises, Inc. dba Leiter's Compounding Pharmacy 17 Great Oaks Blvd San Jose, CA 95119 40 CFR 439 Subpart D	SJ-001NSC	1			1	CC	A Verbal Warning was issued for late submittal of an SMR, 16 to 30 days late, in the second quarter of 2017. A Warning Notice was issued for federal monthly average and federal daily maximum acetone concentration limit violations in the first quarter of 2018.
		2				IL	
		3	1			NS	
		4	1	2		IF	
Leiter's 6541 Via del Oro, Suite B San Jose, CA 95119 40 CFR 439 Subpart D	SJ-002NSC	1	1			UN	Consistent Compliance in 2017. The IU was issued permit number SJ-002NSC in the third quarter of 2017.
		2				UN	
		3				NS	
		4	1	1		CC	

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				POTW	IU		
Lenthor Engineering, Inc. 311 Turquoise St Milpitas, CA 95035 40 CFR 433.17 Subpart A	MI-141B	1	1	3	1	IL	A Warning Notice was issued for late submittal of an SMR, five to 15 days late, and a Notice of Violation was issued for local pH violations that lasted 35 minutes and for federal and local failure to report violations in the first quarter of 2017. A Notice of Violation was issued for failure to report a significant change, a permit condition violation, in the third quarter of 2017.
		2	1	4	1	IF/IL	
		3	2	3	1	CC	
		4	2	3	1	CC	
Lenthor Engineering, Inc. 1478 Gladding Ct Milpitas, CA 95035 40 CFR 433.17 Subpart A	MI-132B	1				NS	No discharge in 2017. The IU was de-permitted in the fourth quarter of 2017.
		2	1			NS	
		3				NS	
		4	1			NS	
Linear Technology Corp.* 275 S Hillview Dr Milpitas, CA 95035 40 CFR 469 Subpart A	MI-088B	1		4	1	CC	Consistent Compliance in 2017. The IU changed ownership in the second quarter of 2017. The IU name changed to Analog Devices, Inc., and was re-permitted under permit number MI-147B.
		2	1			NS	
		3				NS	
		4				NS	
Linear Technology Corp. 1630 McCarthy Blvd Milpitas, CA 95035 40 CFR 433.17 Subpart A	MI-006A	1		3	1	CC	Consistent Compliance in 2017. The IU changed ownership in the second quarter of 2017. The IU name changed to Analog Devices, Inc., and was re-permitted under permit number MI-146B.
		2	1	2		NS	
		3		2		NS	
		4				NS	
List Biological Laboratories, Inc 540 Division St Campbell, CA 95008 40 CFR 439 Subpart A	WV-064B	1	1			NS	A Warning Notice was issued in the third quarter for failure to provide adequate pretreatment in the second quarter of 2017.
		2		1	1	IF/IL	
		3	1			NS	
		4		1		CC	

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				POTW	IU		
Lumentum Operations LLC*	SJ-674B	1	1		1	CC	Consistent Compliance in 2017.
		2		1		CC	
1750 Automation Pkwy		3			1	CC	
San Jose, CA 95131		4	1	1		CC	
40 CFR 433.17 Subpart A							
Lumentum Operations, LLC*	SJ-673B	1	1	2	2	IL	Two Notices of Violation, two Administrative Citations, and Compliance Schedule (from 4/19/2017 Compliance Meeting) were issued for local maximum allowable arsenic concentration limit violations in the second quarter of 2017.
		2	2	2	3	CC	
80 Rose Orchard Way		3	1	1	2	CC	
San Jose, CA 95134		4	1	1	1	CC	
40 CFR 469 Subpart A							
Lumileds LLC*	SJ-528B	1	2	7	1	CC	A Warning Notice was issued for IU reported local and federal pH violation that lasted five minutes in the first quarter of 2017. A Verbal Warning was issued for IU reported local pH violation that lasted 20 minutes in the third quarter of 2017.
		2	1	7	1	CC	
370 W Trimble Rd		3	1	8	1	IL	
San Jose, CA 95131		4		7		NS	
40 CFR 469 Subpart A							
Magic Spray	SC-453Z	1				NS	Zero Categorical Discharger. Consistent Compliance in 2017.
		2	1			NS	
930 George St		3				NS	
Santa Clara, CA 95054		4	1			NS	
40 CFR 433.17 Subpart A							
Mannington Mills dba Burke Industries	SJ-594B	1			1	CC	A Warning Notice was issued for a local maximum allowable oil and grease concentration limit violation in the fourth quarter of 2017.
		2	1	1		CC	
2250 S 10th St		3			1	CC	
San Jose, CA 95112		4	1	2	1	IL	
40 CFR 428 Subpart G							

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				POTW	IU		
Mantrex, Inc. dba Wit Sales & Refining 538 Phelan Ave San Jose, CA 95112 40 CFR 421 Subpart X	SJ-559Z	1				NS	Zero Categorical Discharger. Consistent Compliance in 2017.
		2	1			NS	
		3				NS	
		4	1			NS	
Mass Precision, Inc.* 2110 Oakland Rd San Jose, CA 95131 40 CFR 433.17 Subpart A	SJ-664B	1		1		CC	A Verbal Warning was issued for inadequate monitoring equipment, a permit condition violation, in the second quarter of 2017.
		2	1	1	1	IL	
		3		1		CC	
		4	1		1	CC	
Metal Finishing Solutions, Inc. 870 Comstock St Santa Clara, CA 95054 40 CFR 433.17 Subpart A	SC-438B	1	2		1	CC	Two Warning Notices and a Notice of Violation were issued for inappropriate sample frequency and late reporting, failure to protect from accidental discharge, and for a local pH violation that lasted eight minutes and local failure to report, all permit condition violations, in the third quarter of 2017. Two Notices of Violation and Compliance Schedule (from 11/30/2017 Compliance Meeting) were issued for late submittal of an enforcement action response and for late submittal of a Slug Discharge Prevention Plan, both, 91 + days late, in the fourth quarter of 2017. The SNF/SNL status in the fourth quarter was based on late submittal of an enforcement action response and Slug Discharge Prevention Plan, greater than 45 days late.
		2		1		CC	
		3	3		1	IF/IL	
		4	1	1	1	SNF/SNL	
Metcalf Energy Center LLC 1 Blanchard Rd Coyote, CA 95013 40 CFR 423	SJ-515B	1			1	CC	Consistent Compliance in 2017.
		2	1	2		CC	
		3			1	CC	
		4	1	1		CC	

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				POTW	IU		
Micrel, LLC 1849 Fortune Dr San Jose, CA 95131 40 CFR 469 Subpart A	SJ-679B	1		8	1	CC	Consistent Compliance in 2017. The IU ceased operation and was de-permitted in the second quarter of 2017.
		2	1	2		CC	
		3				NS	
		4				NS	
Microsemi, Inc.* 3000 Oakmead Village Dr Santa Clara, CA 95051 40 CFR 469 Subpart A	SC-380B	1	1	1		CC	Consistent Compliance in 2017.
		2			1	CC	
		3	1	1		CC	
		4			1	CC	
Mohawk Packing, Div. of John Morrell 1660 Old Bayshore Hwy San Jose, CA 95112 SIU based on flow	SJ-373C	1	1	7	1	IL	A Warning Notice was issued for an IU reported local pH violation that lasted five minutes in the second quarter of 2017.
		2		7		CC	
		3	2	6	1	CC	
		4		7		CC	
Momentum Technologies Corp. dba Momentum Metal Finishing* 1232 Memorex Dr Santa Clara, CA 95050 40 CFR 433.17 Subpart A	SC-381B	1	1		1	IF/IL	A Notice of Violation was issued for local and federal pH violations that lasted four hours, and for federal and local failure to report violations in the first quarter of 2017. A Warning Notice was issued for inappropriate sample frequency, a permit condition violation, in the third quarter of 2017.
		2	1	1		CC	
		3	1	1	1	IF/IL	
		4	1			NS	
M-Pulse Microwave, Inc.* 576 Charcot Ave San Jose, CA 95131 40 CFR 469 Subpart A	SJ-035B	1		1		CC	Consistent Compliance in 2017.
		2	1		1	CC	
		3		1		CC	
		4	1		1	CC	

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San José-Santa Clara Regional Wastewater Facility

FACILITY NAME AND ADDRESS	PERMIT	QTR	INSPECTIONS	SAMPLES		COMPLIANCE STATUS	NOTES
				POTW	IU		
Newport Corporation* 3635 Peterson Way Santa Clara, CA 95054 40 CFR 433.17 Subpart A	SC-416B	1		1	1	CC	A Verbal Warning was issued for failure to maintain a continuous pH recorder, a permit condition violatio, in the second quarter of 2017.
		2	1			IL	
		3		1	1	CC	
		4	1			NS	
Noel Technologies, Inc.* 1510 Dell Ave Campbell, CA 95008 40 CFR 469 Subpart A 40 CFR 433.17 Subpart A	WV-071B	1	1		1	CC	Consistent Compliance in 2017.
		2		1		CC	
		3	1	1	1	CC	
		4		1		CC	
OLS Energy-Agnews, Inc. 3800 Cisco Way San Jose, CA 95134 40 CFR 423	SJ-388B	1			1	CC	A Verbal Warning was issued for failure to maintain an effluent flow meter, a permit condition violation, in the fourth quarter of 2017.
		2	1	1		CC	
		3			1	CC	
		4	1	1		IL	
Pacific Coast Metal, Inc. 2109 O'Toole Ave, Suite A San Jose, CA 95131 40 CFR 433.17 Subpart A	SJ-677Z	1				NS	Zero Categorical Discharger. Consistent Compliance in 2017.
		2	1			NS	
		3				NS	
		4	2			NS	

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				POTW	IU		
Pacific Photo Lithography 1440 Norman Ave Santa Clara, CA 95054 40 CFR 433.17 Subpart A	SC-460Z	1				NS	Zero Categorical Discharger. Consistent Compliance in 2017.
		2	1			NS	
		3	1			NS	
		4				NS	
PacTech USA 328 Martin Ave Santa Clara, CA 95050 40 CFR 433.17 Subpart A	SC-343B	1		1	1	CC	A Verbal Warning was issued for late submittal of an SMR, five to 30 days late, in the first quarter of 2018.
		2	1			NS	
		3		1	1	CC	
		4	1			IL	
PerkinElmer, Inc. 2175 Mission College Blvd Santa Clara, CA 95054 40 CFR 469 Subpart A	SC-264A	1		1		CC	Consistent Compliance in 2017. The IU changed ownership in the second quarter of 2017. The IU name changed to Varex Imaging and was re-permitted under permit number SC-468B.
		2	1		1	CC	
		3				NS	
		4				NS	
PK Selective Metal Plating, Inc.* 415 Mathew St Santa Clara, CA 95050 40 CFR 433.17 Subpart A	SC-013B	1		1		CC	Consistent Compliance in 2017. The IU changed ownership in the second quarter of 2017. The IU name changed to Hammon Plating and was re-permitted under permit number SC-466B.
		2	1			NS	
		3				NS	
		4				NS	
Process Stainless Lab, Inc. 1280 Memorex Dr Santa Clara, CA 95050 40 CFR 433.17 Subpart A	SC-276B	1			1	CC	Consistent Compliance in 2017.
		2	2	1	1	CC	
		3		1		CC	
		4	1		1	CC	

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				POTW	IU		
Prodigy Surface Tech, Inc. 807 Aldo Ave, Suite 103 Santa Clara, CA 95054 40 CFR 433.17 Subpart A	SC-344B	1	1		1	IL	A Notice of Violation was issued for local pH violations that lasted six minutes and local failure to report violations in the first quarter of 2017.
		2		1		CC	
		3	1		1	CC	
		4		1		CC	
Prudential Overall Supply 1429 N Milpitas Blvd Milpitas, CA 95035 SIU based on flow	MI-040B	1	1	3	3	IL	A Verbal Warning and two Warning Notices were issued for late submittal of an SMR, five to 15 days late, and for local maximum allowable oil and grease concentration limit violations, permit condition violations in first quarter of 2017. A Verbal Warning and Notice of Violation were issued for failure to maintain pH monitoring equipment, and for local maximum allowable oil and grease concentration limit violation, permit condition violations, in the second quarter of 2017. A Notice of Violation and Compliance Schedule (from 9/7/2017 Compliance Meeting) were issued for local maximum allowable oil and grease concentration limit violations in the third quarter of 2017.
		2	2	5	3	IL	
		3	3	4	2	CC	
		4		2	3	CC	
Quality Plating, Inc. 1680 Almaden Expy, Suite H & I San Jose, CA 95125-1324 40 CFR 433.17 Subpart A	SJ-079B	1	1	1	1	CC	Consistent Compliance in 2017.
		2				NS	
		3	1	1	1	CC	
		4				NS	
QualTech Circuits, Inc. 1101 Comstock St Santa Clara, CA 95054 40 CFR 433.17 Subpart A	SC-345B	1		1		CC	A Warning Notice was issued for inappropriate sample frequency, a permit condition violation, in the second quarter of 2017.
		2	1		1	IF/IL	
		3		2	1	CC	
		4	1			NS	

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				POTW	IU		
QuantumClean 1710 Ringwood Ave San Jose, CA 95131-1711 40 CFR 433.17 Subpart A	SJ-545B	1				NS	Consistent Compliance in 2017.
		2	2	1	1	CC	
		3	1			NS	
		4		1	1	CC	
R.C. Refinishing 1617 Pomona Ave San Jose, CA 95110 40 CFR 433.17 Subpart A	SJ-567Z	1				NS	Zero Categorical Discharger. Consistent Compliance in 2017.
		2	1			NS	
		3				NS	
		4	1			NS	
Reed & Graham, Inc. 690 Sunol St San Jose, CA 95126 40 CFR 443 Subpart A	SJ-461B	1				NS	Zero Categorical Discharger. The IU has a sample point from a non-categorical process. A Verbal Warning was issued for late submittal of a ZDC, five to 15 days late, in the third quarter of 2017.
		2	1		1	CC	
		3		1		IL	
		4	1			NS	
S.J. Valley Plating, Inc.* 491 Perry Ct Santa Clara, CA 95054 40 CFR 433.17 Subpart A	SC-017B	1	1	2		CC	Consistent Compliance in 2017.
		2			1	CC	
		3		2		CC	
		4	1		1	NS	

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				POTW	IU		
San Jose Die Casting Corp. 2475 Autumnvale Dr San Jose, CA 95131 40 CFR 464 Subpart A 40 CFR 464 Subpart D	SJ-554Z	1	1			NS	Zero Categorical Discharger. Consistent Compliance in 2017.
		2				NS	
		3	1			NS	
		4	1			NS	
San Jose State University Cogen Plant 260 S 9th St San Jose, CA 95192 SIU based on flow	SJ-448B	1		1	1	CC	Consistent Compliance in 2017.
		2	1			NS	
		3			1	CC	
		4	1	1		CC	
Sanmina Corp Plant I 2101 O'Toole Ave San Jose, CA 95131 40 CFR 433.17 Subpart A	SJ-022A	1	3	7	1	IL	A Warning Notice was issued for a local pH violation that lasted two minutes, and for federal and local failure to report violations in the first quarter of 2017.
		2	1	7	1	CC	
		3	1	7	1	CC	
		4	1	7	1	CC	
Sanmina Corp Plant II* 2068 Bering Dr San Jose, CA 95131-2009 40 CFR 433.17 Subpart A	SJ-043A	1	3	9	3	SNF/IL	A Notice of Violation, Administrative Citation, and Compliance Schedule (from 3/22/2017 Compliance Meeting) were issued for federal monthly average, federal daily maximum, and local maximum allowable copper concentration limit violations, and a local maximum allowable nickel concentration limit violation. And a Notice of Violation, and an Administrative Citation, were issued for local maximum allowable copper concentration limit violations resulting from surveillance sampling in a manhole outside of the IU in the first quarter of 2017. The SNF status in the first quarter of 2017 was based on the number of samples exceeding the federal monthly average copper concentration limit TRC 33%+ criteria.
		2	1	8	3	CC	
		3	2	7	1	CC	
		4	1	6		NS	

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				POTW	IU		
Santa Clara Plating Co.* 1769 Grant St Santa Clara, CA 95050 40 CFR 433.17 Subpart A	SC-029B	1				NS	Consistent Compliance in 2017.
		2	2	1	1	CC	
		3				NS	
		4	1	1	1	CC	
Scientific Metal Finishing, Inc. 3180 Molinaro St Santa Clara, CA 95054 40 CFR 433.17 Subpart A	SC-450Z	1				NS	Zero Categorical Discharger. Consistent Compliance in 2017.
		2	1			NS	
		3				NS	
		4	1			NS	
Semiconductor Tooling Services, Inc.* 6781 Via del Oro San Jose, CA 95119 40 CFR 433.17 Subpart A	SJ-657B	1		2	1	CC	Consistent Compliance in 2017.
		2	1			NS	
		3		1	1	CC	
		4	1			NS	
Silicon Microstructures 1701 McCarthy Blvd Milpitas, CA 95035 40 CFR 469 Subpart A	MI-108B	1				NS	A Notice of Violation and Compliance Schedule (from 10/25/2017 Compliance Meeting) were issued for a local pH limit violation that lasted 107 minutes, a local and federal pH limit violation that lasted 3.38 hours, and local failure to report violation in the third quarter of 2017.
		2	1	1	1	CC	
		3	1			IF/IL	
		4		1		CC	

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				POTW	IU		
Solexel Inc.* 1532 McCarthy Blvd Milpitas, CA 95035 40 CFR 469 Subpart A	MI-143B	1 2 3 4	1 2 2	2 2		IF/IL IL SNF/SNL NS	A Notice of Violation was issued for late submittal of an SMR, 91 + days late, for failure to notify of significant change and failure to transfer permit, both permit condition violations, in the second quarter of 2017. The SNF/SNL status in the third quarter was based on late submittal of an SMR, greater than 45 days late. The IU changed ownership in the third quarter of 2017. The IU name changed to Oak Creep Properties, LLC and a transfer of permit MI-143B was approved. The IU ceased operation and was de-permitted in the first quarter of 2018.
Streamline Circuits 1415 Richard Ave Santa Clara, CA 95050 40 CFR 433.17 Subpart A	SC-350A	1 2 3 4	1 1 1 2	2 2 1 1	2 2 1 1	CC CC CC CC	Consistent Compliance in 2017.
Suez Water Treatment and Technologies, Inc. 5900 Silver Creek Valley Rd San Jose, CA 95138 SIU based on flow	SJ-690B	1 2 3 4	 1	 7 7		UN UN CC NS	Consistent Compliance in 2017. The IU was formerly named GE Mobile Water, Inc. and was permitted under permit number SJ-393A.
Sun Surface Technology, Inc. 950 Rincon Cir San Jose, CA 95131 40 CFR 433.17 Subpart A	SJ-510B	1 2 3 4	1 1 	 1 1 	1 1 	CC CC CC NS	Consistent Compliance in 2017.

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				POTW	IU		
Superior Chrome* 1616 Pomona Ave San Jose, CA 95110-3510 40 CFR 433.17 Subpart A	SJ-263B	1		1	1	CC	Consistent Compliance in 2017. The IU ceased operation and was de-permitted in the fourth quarter of 2017.
		2	1			NS	
		3	1	1		CC	
		4	1			NS	
Swift Metal Finishing* 1161 Richard Ave Santa Clara, CA 95050 40 CFR 433.17 Subpart A	SC-035B	1			1	CC	A Verbal Warning was issued for a local maximum allowable nickel concentration limit violation in the fourth quarter of 2017. A Warning Notice was issued for local allowable nickel concentration limit violation in the first quarter of 2018.
		2	1	1		CC	
		3	1		1	CC	
		4		2	1	IL	
T. Marzetti Co.- West 876 Yosemite Dr Milpitas, CA 95035 SIU based on flow	MI-004C	1	1	3	3	CC	A Notice of Violation was issued for a local maximum allowable oil and grease concentration limit violation in the second quarter of 2017. Two Notices of Violation and Compliance Schedule (from 12/13/2017 Compliance Meeting) were issued for local maximum allowable oil and grease concentration limit in the fourth quarter of 2017.
		2	1	4	2	IL	
		3	2	4	2	IL	
		4	6	4	5	IL	
Telewave, Inc 660 Giguere Ct San Jose, CA 95133 40 CFR 433.17 Subpart A	SJ-471B	1	1		1	CC	Consistent Compliance in 2017.
		2	1	1		CC	
		3	1		1	CC	
		4		1		CC	
THAT Corporation* 505 Fairview Way Milpitas, CA 95035 40 CFR 469 Subpart A	MI-078B	1	2		1	CC	Consistent Compliance in 2017. A Warning Notice was issued for IU reported local pH violation that lasted for 10 minutes, in the second quarter of 2017. A Verbal Warning was issued for IU reported local pH violation that lasted for two minutes, in the fourth quarter of 2017.
		2		1		CC	
		3	1		1	CC	
		4		1		CC	

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				POTW	IU		
The Newark Group, Inc. dba California Paperboard Corp. 525 Mathew St Santa Clara, CA 95050 40 CFR 430 Subpart J	SC-459B	1		7	1	CC	Consistent Compliance in 2017.
		2	1	6		NS	
		3	1	7	1	CC	
		4		6		NS	
Thin Film Electronics, Inc.* 2865 Zanker Rd San Jose, CA 95132 40 CFR 469 Subpart A	SJ-665B	1	1		1	CC	Consistent Compliance in 2017. The IU moved in the second quarter of 2017 and was issued permit number SJ-685B.
		2	1			NS	
		3				NS	
		4				NS	
Thin Film Electronics, Inc.* 2581 Junction Ave San Jose, CA 95134 40 CFR 469 Subpart A	SJ-685B	1				UN	Consistent Compliance in 2017. The IU was formerly permitted under permit number SJ-665B.
		2	1	1		CC	
		3			2	CC	
		4	1	1		CC	
Triad Tool & Engineering, Inc. 1750 Rogers Ave San Jose, CA 95112 40 CFR 464 Subpart D 40 CFR 464 Subpart A	SJ-671Z	1				NS	Zero Categorical Discharger. Consistent Compliance in 2017.
		2	1			NS	
		3				NS	
		4	1			NS	

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				POTW	IU		
TTM Technologies North America, LLC* 359 Mathew St Santa Clara, CA 95050 40 CFR 433.17 Subpart A	SC-374A	1	1	1	1	CC	Consistent Compliance in 2017. A Warning Notice was issued for an IU reported federal and local pH violation that lasted five minutes, in the third quarter of 2017.
		2	1	2	1	CC	
		3	1	1	1	CC	
		4	1	1	1	CC	
Uni-Flex Circuits, Inc. 1782 Angela St San Jose, CA 95125-1253 40 CFR 433.17 Subpart A	SJ-399B	1	1	1	1	CC	A Warning Notice was issued for inappropriate sample frequency, a permit condition violation, in the first quarter of 2018.
		2		1		CC	
		3	1	1		CC	
		4			1	IF/IL	
United Supertek, Inc. 118 Charcot Ave San Jose, CA 95131 40 CFR 433.17 Subpart A	SJ-122B	1	1			NS	Consistent Compliance in 2017. The IU ceased operation and was de-permitted in the second quarter of 2017.
		2				NS	
		3				NS	
		4				NS	
Universal Semiconductor* 1925 Zanker Rd San Jose, CA 95112 40 CFR 469 Subpart A 40 CFR 433.17 Subpart A	SJ-150B	1		1		CC	Consistent Compliance in 2017.
		2	1		1	CC	
		3	2	1		CC	
		4			1	CC	

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				POTW	IU		
Vacuum Engineering & Materials Co. 390 Reed St Santa Clara, CA 95050 40 CFR 471 Subpart D	SC-443B	1		1	1	CC	Consistent Compliance in 2017.
		2	1			NS	
		3	1	1	1	CC	
		4				NS	
Varex Imaging* 2175 Mission College Blvd Santa Clara, CA 95054 40 CFR 469 Subpart A	SC-468B	1				UN	Consistent Compliance in 2017. The IU was formerly named PerkinElmer, Inc. and was permitted under permit number SC-264A.
		2				NS	
		3		1		CC	
		4	2		1	CC	
Vector Fabrication 1629 Watson Ct Milpitas, CA 95035 40 CFR 433.17 Subpart A	MI-059B	1	1			NS	No discharge in 2017. The IU was de-permitted in the fourth quarter of 2017.
		2				NS	
		3				NS	
		4	1			NS	
Viasystems Technologies Corporation, LLC dba TTM Technologies 335 Turtle Creek Ct San Jose, CA 95125 40 CFR 433.17 Subpart A	SJ-625B	1	1	8	1	CC	Consistent Compliance in 2017.
		2	1	7	1	CC	
		3	1	8	1	CC	
		4	1	7	1	CC	

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				POTW	IU		
Vishay/Siliconix*	SC-282A	1	1		1	CC	A Warning Notice was issued for IU reported federal and local pH violations that lasted 24 and 32 minutes in the third quarter of 2017.
		2		2	1	CC	
2201 Laurelwood Rd		3	2	1		IF/IL	
Santa Clara, CA 95054		4		1		CC	
40 CFR 433.17 Subpart A							
40 CFR 469 Subpart A							
Wafer Reclaim Services, LLC dba Pure Wafer*	SJ-552B	1	1	7		IF/IL	One Warning Notice, two Notice of Violations, and three Administrative Citations were issued for late submittal of an enforcement response and for federal and local pH violations in the first quarter of 2017. A Notice of Violation, Administrative Citation, and Compliance Schedule (from 5/9/2017 Compliance Meeting) were issued for local pH violations and failure to report violations in the second quarter of 2017.
		2		6	2	IL	
2240 Ringwood Ave		3	2	8	1	CC	
San Jose, CA 95131		4		8	1	CC	
40 CFR 433.17 Subpart A							
WD Media, LLC	SJ-551A	1	1	1		CC	Consistent Compliance in 2017.
		2			1	CC	
1710 Automation Pkwy		3	2	1		CC	
San Jose, CA 95131		4			1	CC	
SIU based on flow							
Winslow Automation, Inc., dba SIX SIGMA	MI-106B	1	1			NS	Consistent Compliance in 2017.
		2	1	1	1	CC	
905 Montague Expy		3				NS	
Milpitas, CA 95035		4	1	1	1	CC	
40 CFR 433.17 Subpart A							

All significant industrial users are regulated by local limits. In addition, categorical industrial users are regulated by the applicable federal categorical limits as described in the Federal Standards section of this Annual Industrial User Pretreatment Compliance Report.

Compliance Status Key

SNF - Significant Noncompliance, Federal Limits
SNL - Significant Noncompliance, Local Limits
UN - Unknown
IL - Inconsistent Compliance, Local Limits
IF - Inconsistent Compliance, Federal Limits
NS - Not scheduled to be Sampled for Compliance
* - Under an Approved Solvent Management Plan
CC - Consistent Compliance

Table of Administrative Citations Issued in 2017

Company Name	Permit #	Date Issued	DOV	Amount	Violation Type	Parameter
Wafer Reclaim Services, LLC dba Pure Wafer	SJ-552B	2/10/2017	1/19/2017	$ 250	Late Reports Other	
Wafer Reclaim Services, LLC dba Pure Wafer	SJ-552B	2/10/2017	1/24/2017	$ 500	Corrosive Matter pH less than 6.0	pH
Wafer Reclaim Services, LLC dba Pure Wafer	SJ-552B	2/17/2017	1/31/2017	$ 313	Late Reports Other	
Sanmina Corp Plant II	SJ-043A	2/24/2017	1/31/2017	$ 1,500	Exceeding Monthly Concentration Average Limit	Copper
A & E Anodizing	SJ-314B	3/3/2017	1/18/2017	$ 500	Exceeding Daily Concentration Average Limit	Zinc
United Site Services	SP-012A	3/3/2017	1/9/2017	$ 1,125	Discharge of Non-Septic Waste	
United Site Services	SP-012A	3/3/2017	1/9/2017	$ 1,000	Falsification of Information	
United Site Services	SP-012A	3/3/2017	1/9/2017	$ 250	Prohibited Discharge	
United Site Services	SP-012A	3/3/2017	1/6/2017	$ 600	Source Certification	
United Site Services	SP-012A	3/3/2017	1/9/2017	$ 1,313	Waste Originating Outside Certain Area Prohibited	
Lumentum Operations LLC	SJ-673B	3/10/2017	2/17/2017	$ 1,000	Exceeding Concentration Maximum Limit	Arsenic
Lumentum Operations LLC	SJ-673B	4/7/2017	3/23/2017	$ 1,250	Exceeding Concentration Maximum Limit	Arsenic
Ocular Labs	SJ-600B	4/10/2017	6/20/2016	$ 500	Corrosive Matter pH less than 5.0	pH
Wafer Reclaim Services, LLC dba Pure Wafer	SJ-552B	4/13/2017	3/31/2017	$ 1,000	Corrosive Matter pH greater than or equal to 12.5	pH
Sanmina Corp Plant II	SJ-043A	5/10/2017	2/15/2017	$ 1,000	Exceeding Concentration Maximum Limit	Copper
Waste Connections of California, Inc. dba Green Team of San Jose	SJ-682B	11/2/2017	9/29/2017	$ 500	Corrosive Matter pH less than 6.0	pH
Clean Harbors San Jose, LLC	SJ-487A	11/21/2017	10/12/2017	$ 1,000	Exceeding Concentration Maximum Limit	Cyanide Total
Able Septic Tank Service	SP-003A	12/1/2017	11/1/2017	$ 250	Waste Originating Outside Certain Area Prohibited	
Clean Harbors San Jose, LLC	SJ-487A	12/8/2017	11/17/2017	$ 1,250	Exceeding Concentration Maximum Limit	Cyanide Total
United Site Services	SP-012A	12/22/2017	9/5/2017	$ 6,000	Waste Originating Outside Certain Area Prohibited	
			Total	$ 21,100		

Federal Categorical Standards

This section includes a list of all EPA categories and standards that are regulated by the Wastewater Facility. The following tables are included in this section:

- List of EPA federal categories that are regulated by the Wastewater Facility with their descriptions.
- List of the Wastewater Facility's other regulated categories.
- Table summarizing the number of Categorical Industrial Users (CIUs) and the federal standard limits for each category. Some of these categories do not include limits, since the limits are production based and all of these regulated facilities are zero discharge.
- List of industrial users subject to limits based on combined waste formulas and the calculations for the combined waste stream generated limits for each applicable CIU.

The Compliance Activities tables includes a list of applicable federal categories for each site.

List of EPA Categories and Their Descriptions

40 CFR 421 Subpart X	**Nonferrous Metals Manufacturing - Secondary Precious Metals - New Source**
40 CFR 423	**Steam Electric Power Generating - New Source**
40 CFR 428 Subpart G	**Rubber Manufacturing - New Source**
40 CFR 430 Subpart J	**Pulp, Paper and Paperboard - New Source**
40 CFR 433.17 Subpart A	**Metal Finishing - New Source**
40 CFR 437.47 Subpart D	**Multiple Wastestreams, (PSNS), (d) Combined Waste Receipts from Subpart A and C**
40 CFR 439 Subpart A	**Pharmaceutical Manufacturing - New Source**
40 CFR 439 Subpart D	**Pharmaceutical Manufacturing - New Source**
40 CFR 443 Subpart A	**Asphalt Emulsion Subcategory - New Source**
40 CFR 464	**Metal Molding and Casting - New Source**
40 CFR 464 Subpart A	**Metal Molding and Casting - Aluminum - New Source**
40 CFR 464 Subpart D	**Metal Molding and Casting - Zinc - New Source**
40 CFR 468 Subpart A	**Copper Forming**
40 CFR 469 Subpart A	**Electrical and Electronic Components - Semiconductor - New Source**
40 CFR 471 Subpart C	**Nonferrous Metals Forming and Metal Powders - New Source**
40 CFR 471 Subpart D	**Nonferrous Metals Forming and Metal Powders - New Source**

Other Regulated Categories

MISC	**All Other IUs Non-Categorical**
AUTO	**Automotive Repair Facilities**
CBMF	**Corrugated Box Manufacturing**
EPMN	**Electronics Parts Manufacturing - Non-Categorical**
FPNS	**Food Processing - Non-Seasonal**
INLA	**Industrial Laundries**
PHPR	**Photographic Processing - Non-Categorical**

Categorical Standards

FEDERAL INDUSTRIAL CATEGORY	STANDARDS		
	Parameter	Maximum Limit	Monthly Average Limit
Asphalt Emulsion Subcategory - New Source 40 CFR 443 Subpart A No. of CIUs: 1	Oil and Grease	100 mg/L	
Copper Forming	Cadmium	0.34 mg/L	0.13 mg/L
	Chromium Total	1.37 mg/L	0.85 mg/L
	Copper	1.71 mg/L	1.04 mg/L
	Lead	0.34 mg/L	0.21 mg/L
	Nickel	2.00 mg/L	1.20 mg/L
	Oil and Grease	0.40 mg/L	0.24 mg/L
	pH	>5.0 S.U.	
	Silver	0.21 mg/L	0.12 mg/L
	Total Toxic Organics	1.06 mg/L	0.01 mg/L
	Zinc	1.31 mg/L	0.74 mg/L
40 CFR 468 Subpart A No. of CIUs: 1			
Electrical and Electronic Components - Semiconductor - New Source 40 CFR 469 Subpart A No. of CIUs: 25	Total Toxic Organics	1.37 mg/L	
Metal Finishing - New Source	Cadmium	0.11 mg/L	0.07 mg/L
	Chromium Total	2.77 mg/L	1.71 mg/L
	Copper	3.38 mg/L	2.07 mg/L
	Cyanide Total	1.20 mg/L	0.65 mg/L
	Lead	0.69 mg/L	0.43 mg/L
	Nickel	3.98 mg/L	2.38 mg/L
	Silver	0.43 mg/L	0.24 mg/L
	Total Toxic Organics	2.13 mg/L	
	Zinc	2.61 mg/L	1.48 mg/L
40 CFR 433.17 Subpart A No. of CIUs: 98			
Metal Molding and Casting - Aluminum - New Source 40 CFR 464 Subpart A No. of CIUs: 3			
Metal Molding and Casting - Copper - New Source 40 CFR 464 Subpart B No. of CIUs: 1			

The count of Industrial Users and Categorical Industrial Users for each secton in this table entitled, "Categorical Standards," includes all companies including those that have gone out of business in the reporting year and those who are listed under multiple categories. The actual number of active permit as per the date of publishing may be less than those shown.

Categorical Standards

FEDERAL INDUSTRIAL CATEGORY	STANDARDS		
	Parameter	Maximum Limit	Monthly Average Limit
Metal Molding and Casting - Zinc - New Source 40 CFR 464 Subpart D No. of CIUs: 3			
Multiple Wastestreams, (PSNS), (d) Combined Waste Receipts from Subpart A and C	2,4,6-Trichlorophenol	0.155 mg/L	0.106 mg/L
	Antimony	0.249 mg/L	0.206 mg/L
	Arsenic	0.162 mg/L	0.104 mg/L
	Cadmium	0.474 mg/L	0.0962 mg/L
	Chromium Total	15.5 mg/L	3.07 mg/L
	Cobalt	0.192 mg/L	0.124 mg/L
	Copper	4.14 mg/L	1.06 mg/L
	Lead	1.32 mg/L	0.283 mg/L
	Mercury	0.00234 mg/L	0.000739 mg/L
	Nickel	3.95 mg/L	1.45 mg/L
	o-Cresol	1.92 mg/L	0.561 mg/L
	p-Cresol	0.698 mg/L	0.205 mg/L
	Silver	0.120 mg/L	0.0351 mg/L
	Tin	0.409 mg/L	0.120 mg/L
	Titanium	0.0947 mg/L	0.0618 mg/L
	Vanadium	0.218 mg/L	0.0662 mg/L
	Zinc	2.87 mg/L	0.641 mg/L
40 CFR 437.47 Subpart D No. of CIUs: 1			
Nonferrous Metals Forming and Metal Powders - New Source 40 CFR 471 Subpart C No. of CIUs: 1			
Nonferrous Metals Forming and Metal Powders - New Source	Cadmium	0.02 mg/L	0.01 mg/L
	Copper	0.12 mg/L	0.07 mg/L
	Cyanide Total	0.02 mg/L	0.01 mg/L
	pH	>5.0 SU	
	Silver	0.03 mg/L	0.01 mg/L
40 CFR 471 Subpart D No. of CIUs: 1			
Nonferrous Metals Manufacturing - Secondary Precious Metals - New Source 40 CFR 421 Subpart X No. of CIUs: 3			

The count of Industrial Users and Categorical Industrial Users for each secton in this table entitled, "Categorical Standards," includes all companies including those that have gone out of business in the reporting year and those who are listed under multiple categories. The actual number of active permit as per the date of publishing may be less than those shown.

Categorical Standards

FEDERAL INDUSTRIAL CATEGORY	STANDARDS		
	Parameter	Maximum Limit	Monthly Average Limit
Pharmaceutical Manufacturing - New Source	1,2-Dichlorobenzene	20.7 mg/L	8.2 mg/L
	1,2-Dichloroethane	20.7 mg/L	8.2 mg/L
	Acetone	20.7 mg/L	8.2 mg/L
	Benzene	3.0 mg/L	0.7 mg/L
	Chlorobenzene	3.0 mg/L	0.7 mg/L
	Chloroform	0.1 mg/L	0.03 mg/L
	Cyanide Total	33.5 mg/L	9.4 mg/L
	Diethylamine	255.0 mg/L	100 mg/L
	Diisopropyl ether	20.7 mg/L	8.2 mg/L
	Ethylacetate	20.7 mg/L	8.2 mg/L
	Hexane	3.0 mg/L	0.7 mg/L
	Isobutyraldehyde	20.7 mg/L	8.2 mg/L
	Isopropylacetate	20.7 mg/L	8.2 mg/L
	Methyl formate	20.7 mg/L	8.2 mg/L
	Methyl isobutyl ketone	20.7 mg/L	8.2 mg/L
	Methylene Chloride	3.0 mg/L	0.7 mg/L
	n-Amyl Acetate	20.7 mg/L	8.2 mg/L
	n-Butyl acetate	20.7 mg/L	8.2 mg/L
	n-Heptane	3.0 mg/L	0.7 mg/L
	Tetrahydrofuran	9.2 mg/L	3.4 mg/L
	Toluene	0.3 mg/L	0.2 mg/L
	Triethylamine	255.0 mg/L	100 mg/L
	Xylene	3.0 mg/L	0.7 mg/L
40 CFR 439 Subpart A No. of CIUs: 2			
Pharmaceutical Manufacturing - New Source	Acetone	20.7 mg/L	8.2 mg/L
	Ethylacetate	20.7 mg/L	8.2 mg/L
	Isopropylacetate	20.7 mg/L	8.2 mg/L
	Methylene Chloride 6	20.7 mg/L	8.2 mg/L
	n-Amyl Acetate	20.7 mg/L	8.2 mg/L
40 CFR 439 Subpart D No. of CIUs: 2			
Pulp, Paper and Paperboard - New Source	Pentachlorophenol	0.00096 mg/L	
	Trichlorophenol	0.00030 mg/L	
40 CFR 430 Subpart J No. of CIUs: 2			
Rubber Manufacturing - New Source	Oil and Grease	100.00 mg/L	
40 CFR 428 Subpart G No. of CIUs: 1			

The count of Industrial Users and Categorical Industrial Users for each secton in this table entitled, "Categorical Standards," includes all companies including those that have gone out of business in the reporting year and those who are listed under multiple categories. The actual number of active permit as per the date of publishing may be less than those shown.

Categorical Standards

FEDERAL INDUSTRIAL CATEGORY	STANDARDS		
	Parameter	Maximum Limit	Monthly Average Limit
Steam Electric Power Generating - New Source 40 CFR 423 No. of CIUs: 4	Chromium Total	0.2 mg/L	0.2 mg/L
	Copper	1.0 mg/L	1.0 mg/L
	Priority Pollutants	0.01 mg/L	
	Zinc	1.0 mg/L	1.0 mg/L

The count of Industrial Users and Categorical Industrial Users for each secton in this table entitled, "Categorical Standards," includes all companies including those that have gone out of business in the reporting year and those who are listed under multiple categories. The actual number of active permit as per the date of publishing may be less than those shown.

List of Industrial Users Subject to Limits Based on Combined Waste Formulas 2017

Permit #	Company Name
MI-147B	Analog Devices, Inc.
SJ-591B	Cobham Advanced Electronic Solutions
SC-173B	Coherent, Inc.
MI-118B	Headway Technologies, Inc. STT Bldg 5
SJ-495A	HGST, Inc.
SC-307B	INTA Technologies
SJ-216B	Jennings Technology Corporation (inactive)
MI-088B	Linear Technology Corp. (inactive)
WV-064B	List Biological Laboratories, Inc
SJ-673B	Lumentum Operations LLC
SJ-528B	Lumileds LLC
WV-071B	Noel Technologies, Inc.
SJ-388B	OLS Energy-Agnews, Inc.
SC-343B	PacTech USA
SC-264A	PerkinElmer, Inc. (inactive)
MI-143B	Solexel Inc.
SC-350A	Streamline Circuits
MI-078B	THAT Corporation
SJ-150B	Universal Semiconductor
SC-468B	Varex Imaging
SC-282A	Vishay/Siliconix

Combined Wastestream Formula Calculations

For Sample Point 01

Analog Devices, Inc.

Permit # MI-147B

The Combined Wastestream Formula (CWF): $Ct = \frac{(\Sigma CiFi)}{(\Sigma Fi)} \times \frac{(Ft-Fd)}{(Ft)}$

Where,
Ct = Alternative concentration limit for the combined wastestream for TTOs
Ci = Categorical pretreatment standard concentration limit under 40 CFR 469: 1.37 mg/l for TTOs
Fi = Regulated Semiconductor flowstream, average daily flow: 124,000 – 7,500 = 116500 gpd
Fd = Dilution stream: 7,500 gpd
Ft = Average total flow through sample point: 124,000gpd

$$Ct = \frac{(1.37 \text{ mg/l})\ (116{,}500)}{(116{,}500 \text{ gpd})} \times \frac{(124{,}000 \text{ gpd} - 7{,}500 \text{ gpd})}{124{,}000 \text{ gpd}}$$

$Ct = 1.37 \times 0.9395$

$Ct = 1.287 \text{ mg/l} \sim 1.29 \text{ mg/l}$

Therefore, new modified TTO limit at sample point 01 = 1.29 mg/l

Combined Wastestream Formula Calculations

For Sample Point 01

COBHAM DEFENSE ELECTRONICS
Permit No. SJ-591B

The Combined Wastestream Formula (CWF): $Ct = \frac{(\Sigma CiFi)}{(\Sigma Fi)} \times \frac{(Ft-Fd)}{(Ft)}$

Where,
Ct = Alternative concentration limit for the combined wastestream for TTOs
Ci1 = Categorical pretreatment standard concentration limit under 40 CFR 469: 1.37 mg/l for TTOs
Ci2 = Categorical pretreatment standard concentration limit under 40 CFR 433: 2.13 mg/l for TTOs
Fi1 = Regulated Semiconductor flowstream, average daily flow: 2126 gpd
Fi2 = Regulated Metal Finishing flowstream, average daily flow: 264 gpd
Fd = Dilution stream: 0 gpd
Ft = Average total flow through sample point: 2390 gpd

$$Ct = \frac{(1.37 \text{ mg/l})(2126 \text{ gpd}) + (2.13 \text{ mg/l})(264 \text{ gpd})}{(2126 + 264 \text{ gpd})} \times \frac{(2390 \text{ gpd} - 0 \text{ gpd})}{2390 \text{ gpd}}$$

$$Ct = \frac{2912.62 + 562.32}{2390}$$

Ct = 1.453 mg/l ~ 1.45 mg/l

Therefore, new modified TTO limit at sample point 01 = 1.45 mg/l

Combined Wastestream Formula Calculations for Coherent Federal TTO Limit

Federal TTO Limit for Semiconductor Manufacturing (40 CFR 469.12(a) = 1.37 mg/l

Semiconductor Manufacturing Flow Rate = 2,769 gallons per day

Laser Manufacturing Dilution Flow Rate = 7,555 gallons per day

Total Flow = 7,555 + 2,769 = 10,324 gallons per day

Coherent Federal TTO Limit =
(Federal TTO Limit for Semiconductor Manufacturing * Semiconductor Manufacturing Flow) / Total Flow

Coherent Federal TTO Limit =
(1.37 mg/l x 2,769 gal per day) / 10,324 gal = **0.36 mg/l**

Combined Wastestream Formula Calculations

For sample Point 01

Headway Technologies, Inc.
Permit No. MI-118B

The Combined Wastestream Formula (CWF): $Ct = \frac{(\Sigma CiFi)}{(\Sigma Fi)} \times \frac{(Ft-Fd)}{(Ft)}$

Where,
Ct = Alternative concentration limit for the combined wastestream for TTOs
Ci1 = Categorical pretreatment standard concentration limit under 40 CFR 433.17 (a): 2.13 mg/l for TTOs
Ci2 = Categorical pretreatment standard concentration limit under 40 CFR 469.18 (a): 1.37 mg/l for TTOs

Fi1 = Regulated stream, average daily flow: 2080 gpd
Fi2 = Regulated stream, average daily flow: 16159 gpd
Fd = Dilution stream = 0 gpd
Ft = Average total flow through sample point: 18239 gpd

$$Ct = \frac{(1.37\ mg/l)(16159\ gpd) + (2.13\ mg/l)(2080\ gpd)}{(16159\ gpd) + (2080\ gpd)} \times \frac{(18239\ gpd - 0\ gpd)}{18239\ gpd}$$

Ct = 1.457mg/l

Therefore**, new TTO limit** at sample point #01 = 1.46 mg/l

COMBINED WASTESTREAM FORMULA CALCULATIONS
HGST, INC.
SJ-495A
FEDERAL CATEGORICAL LIMITS

Outfall 050

Total Flow = 397,400 gpd

Dilution Flow = 187,900 gpd

Process Flow = 209,500 gpd

Example Calculation: Cadmium Daily Maximum Limit = 0.11 mg/l * 209,500 / 397,400 = 0.06 mg/l

Parameter	Metal Finishing Daily Maximum Limit from 40CFR433.17 (mg/l)	Metal Finishing Monthly Average Limit from 40CFR433.17 (mg/l)	HGST Daily Maximum Limit Adjusted by the Combined Wastestream Formula (mg/l)	HGST Monthly Average Limit Adjusted by the Combined Wastestream Formula (mg/l)
Cadmium	0.11	0.07	0.06	0.04
Chromium	2.77	1.71	1.46	0.90
Copper	3.38	2.07	1.78	1.09
Cyanide	1.20	0.65	0.64	0.34
Lead	0.69	0.43	0.36	0.23
Nickel	3.98	2.38	2.10	1.25
Silver	0.43	0.24	0.23	0.13
TTOs	2.13		1.12	
Zinc	2.61	1.48	1.38	0.78

Process flow includes manufacturing and scrubber discharges.
Dilution flow includes R.O. reject, boiler blowdown, D.I. regeneration, and domestic discharges.

Combined Wastestream Formula Calculations

For sample Point 1 & 2

INTA Technologies, LLC
Permit No. SC-307B

- Combined Wastestream Formula (CWF) -

The Combined Wastestream Formula (CWF): $Ct = \frac{(\Sigma CiFi)}{(\Sigma Fi)} \times \frac{(Ft-Fd)}{(Ft)}$

Where,
Ct = Modified concentration limit for the combined wastestream for **CN**
Ci = Categorical pretreatment standard concentration limit for parameter (i)
Fi= (i) wastewater flow Ft=Total wastewater flow Fd=Dilution wastewater flow

Applying the CWF to one regulated parameter with the same limit in two waste streams:

$Ct1 = [(\Sigma C1F1)/(\Sigma F1)] \times [(Ft-Fd)/(Ft)] = [(C1\Sigma F1)/(\Sigma F1)] \times [(Ft-Fd)/(Ft)]$
$= C1 \times [(Ft-Fd)/(Ft)]$

- CWF Limit Calculation for D_{max} -

Under 40 CFR 433.17(a): the daily concentration limit is Ci = 1.2 mg/l for **CN**
Fd = Dilution = noncyanide average daily flow regulated 40 CFR 433.17(a) = 95 gpd
Ft = Average total process flow through both the sample points: 123.5 gpd

Ct = (1.2 mg/l) x [(123.5 gpd – 95 gpd) / (123.5 gpd)]
Ct = 1. 2 x 0.23 mg/l
Ct = 0.276 ~ 0.28 mg/l
D_{max} = Ct = 0.28 mg/l

New D_{max} limit for CN at sample point 1 & 2 is 0.28 mg/l.

- CWF Limit Calculations for M_{avg} -

Under 40 CFR 433.17(a), the average monthly limit is Ci = 0.65 mg/l for **CN**
Fd = Dilution = noncyanide average daily flow regulated 40 CFR 433.17(a) = 95 gpd
Ft = Average total process flow through both the sample points: 123.5 gpd

As before: (CWF): Ct = Ci1 x [(Ft-Fd)/(Ft)]

Ct = (0.65mg/l) x [(123.5 gpd – 95 gpd) / (123.5 gpd)]
Ct = 0.65 x 0.23 mg/l
Ct = 0.150 ~ 0.15 mg/l
M_{max} = Ct = 0.15 mg/l

New M_{avg} limit for CN at sample point 1 & 2 is 0.15 mg/l.

Jennings Technology Corporation
SJ-216B

Jennings Technology Corporation (Jennings) manufactures products using processes regulated under both the Copper Forming and Metal Finishing federal categories. They have a single area for wet chemistry that processes work pieces from both categories. There is one pretreatment system for the combined wastewater. The copper forming production based limits must be converted from mg/off-kg units as given in 40 CFR 468 to equivalent concentration limits in mg/liter. The copper forming limits are then combined with the 40 CFR 433 metal finishing limits using the combined wastestream formula to calculate the federal limits for Jennings.

The production process for copper formed parts includes pickling baths, pickling rinses, and surface coating. In addition, there is a pickling fume scrubber discharge, tumbling, and miscellaneous waste streams. The number of times the average copper formed part undergoes a given process is shown as the multiplier. Each of these process steps has an associated allowance of pollutants in the generated wastewater that are summed together into a total allowance for each pollutant for both daily maximum and monthly average (See Table 1).

Jennings forms copper parts using dies and presses. They assemble the copper parts with other work pieces and perform plating on the pieces and assemblies. The plating and other aqueous processes associated with the copper parts are regulated under the Copper Forming category. The plating of the other parts is regulated under the Metal Finishing category. Jennings has operated at this location since the 1940s, performing the same type of work. However, they have changed their wet processes over time and added additional pretreatment processes (ion exchange) in the mid 1990s. They are considered a new source. Jennings will be regulated under the New Source Metal Finishing and New Source Copper Forming categories under 40 CFR 433.17 and 40 CFR 468.15. Jennings performs operations defined as Pickling, Pickling Rinse, Pickling Fume Scrubbing, Tumbling, and Miscellaneous under the Copper Forming category, 40 CFR 468.15(k),(m),(n),(o),(q).

Jennings has completed the process for approval of a sampling waiver for four organic solvents (bromodichloromethane, bromoform, chloroform, and dibromochloromethane) as neither present nor expected to be present. Jennings submitted a technical evaluation of their facility demonstrating that these compounds are not present. In addition, Jennings sampled their incoming water and the wastewater from a number of locations to demonstrate the four organic pollutants are not added to the water during processing. Jennings will certify with each Self-Monitoring Report that the four specific organic solvents are not present or expected to be present in their wastewater, and also that they are following a Solvent Management Plan for all TTOs.

Table 1 - Jennings Technology Corporation Production Based Limits information

Copper Forming Production Based Daily Maximum Limits (mg/off-kg)	**Multiplier**	**Cr**	**Cu**	**Pb**	**Ni**	**Zn**	**TTO**	**O&G**
468.15(k) Pickling Rinse	7.95	0.216	0.748	0.058	0.321	0.596	0.198	5.85
468.15(m) Pickling Bath	8.45	0.042	0.148	0.011	0.063	0.118	0.039	1.16
468.15(n) Pickling Fume Scrubber	8.45	0.231	0.801	0.062	0.344	0.638	0.212	6.26
468.15(o) Tumbling or Burnishing	1	0.215	0.746	0.058	0.32	0.594	0.198	5.83
468.15(q) Miscellaneous Waste Streams	3	0.008	0.027	0.0021	0.011	0.022	0.007	0.218
$468D_{max}$		4.263	14.793	1.142	6.344	11.786	3.914	115.69
Copper Forming Production Based Monthly Average Limits (mg/off-kg)								
468.15(k) Pickling Rinse	7.95	0.087	0.356	0.052	0.216	0.245	0.198	5.85
468.15(m) Pickling Bath	8.45	0.017	0.07	0.01	0.042	0.048	0.039	1.16
468.15(n) Pickling Fume Scrubber	8.45	0.093	0.381	0.056	0.231	0.262	0.212	6.26
468.15(o) Tumbling or Burnishing	1	0.087	0.355	0.052	0.215	0.244	0.198	5.83
468.15(q) Miscellaneous Waste Streams	3	0.003	0.013	0.0019	0.008	0.009	0.007	0.218
$468M_{avg}$		1.717	7.035	1.029	4.263	4.838	3.914	115.69

Table 2 – Jennings Technology Corporation Production Data

Production Variable	Annual Quantity
Copper Forming product (lbs/yr)	**6353**
Metal Finishing product (lbs/yr)	**6487**
Number of Working Days (avg/yr)	**235**
468 Average Daily Flow(gpd)	**3393**
433 Average Daily Flow (gpd)	**3464**
Total Average Discharge (gpd)	**6857**

The values in Table 2 are based on the three year period from July 2010 to June 2013

Copper Forming Production Based standards to Concentration Based

40 CFR 468, Subpart A-Copper Forming Point Source Category

Max Daily Calculations:-

Chromium [Cr]-

Subpart A, 468.15 (k) - Pickling Rinse PSNS

0.216 mg/off-kg x 7.95 = 1.717 mg/off-kg

Subpart A, 468.15 (m) - Pickling Bath PSNS

0.042 mg/off-kg x 8.45 = 0.355 mg/off-kg

Subpart A, 468.15 (n) - Pickling Fume Scrubber PSNS

0.231 mg/off-kg x 8.45 = 1.952 mg/off-kg

Subpart A, 468.15 (o) - Tumbling or Burnishing PSNS

0.215 mg/off-kg x 1 = 0.215 mg/off-kg

Subpart A, 468.15 (q) - Miscellaneous Waste Stream PSNS

0.008 mg/off-kg x 3 = 0.024 mg/off-kg

Cr 468D$_{max}$ = 1.717 + 0.355 + 1.952 + 0.215 + 0.024 = 4.263 mg/off-kg

Similarly, 468 D_{max} for the other pollutants and 468M_{avg} for all the pollutants were calculated.

Production Based Limit Calculations for Daily Maximum ($D_{max)}$:

The Production Based Limit is calculated from:

$$D_{max} = 468\ D_{max} \text{ x Copper Formed / (468 Flow Rate x 3.785 liters/gallon)}$$

Where,

D_{max} = Production based daily concentration limit for the 40 CFR 468 wastestream in milligrams per liter.

$468D_{max}$ = Production based Categorical pretreatment standard daily limit for the 40 CFR 468 wastestream in milligrams per off kilogram.

468 Flow Rate = Average daily flow of the wastestream regulated under 40 CFR 468 in gallons per day

Copper Formed = mass of copper or copper alloy formed in off-kilograms per day

As a sample calculation, for chromium,

D_{max} = 4.263 mg/off-kg x 6353 off-lbs/yr / (235 days/yr x 2.2 off-lbs/off-kg x 3393 gpd x 3.785 l/gal) = 0.004 mg/l

Similar calculations were performed for each pollutant for both Daily Maximum and Monthly Average Limits

Table 3

Jennings Technology Corporation
SJ-216B

Copper Forming Equivalent Concentration Pretreatment Standards (mg/l)

Pollutants	Cr	Cu	Pb	Ni	Zn	TTO	O&G
Maximum Daily Discharge Limit – $\mathbf{D_{max}}$	**0.004**	**0.014**	**0.001**	**0.006**	**0.011**	**0.004**	**0.11**
Maximum Average Monthly Discharge Limit - $\mathbf{M_{avg}}$	**0.002**	**0.007**	**0.001**	**0.004**	**0.005**	**0.004**	**0.11**

$\mathbf{D_{max}}$ is the maximum daily discharge limit in mg/l, calculated specifically for Jennings Technology Corporation, based upon their production data.

$\mathbf{M_{avg}}$ is the average monthly discharge limit in mg/l, calculated specifically for Jennings Technology Corporation, based upon their production data.

Table 4

Jennings Technology Corporation
SJ-216B

Metal Finishing Pretreatment standards for new sources (PSNS) (mg/l)

Pollutants	Cd	Cr	Cu	CN(T)	Pb	Ni	Ag	TTO	Zn
Maximum Daily Discharge Limit	**0.11**	**2.77**	**3.38**	**1.2**	**0.69**	**3.98**	**0.43**	**2.13**	**2.61**
Maximum Average Monthly Discharge Limit	**0.07**	**1.71**	**2.07**	**0.65**	**0.43**	**2.38**	**0.24**		**1.48**

Jennings Technology Corporation
SJ-216B

Table 5 Daily Maximum Limits

Pollutants	433 D_{max}	433 Flow	468 D_{max}	468 Flow	Total Flow	CWF Limit
	mg/l	gpd	mg/l	gpd	gpd	mg/l
Cd	0.11	3464	0.11*	3393	6857	0.11
Cr	2.77	3464	0.004	3393	6857	1.40
Cu	3.38	3464	0.014	3393	6857	1.71
Pb	0.69	3464	0.001	3393	6857	0.35
Ni	3.98	3464	0.006	3393	6857	2.01
Ag	0.43	3464	0.43*	3393	6857	0.43
Zn	2.61	3464	0.011	3393	6857	1.32
CN [T]	1.2	3464	1.2*	3393	6857	1.20
TTO	2.13	3464	0.004	3393	6857	1.08
O&G	0.11*	3464	0.11	3393	6857	0.11

There are no 468.15 limits for Cd, Ag, or CN.
There is no 433 limit for O&G.
*These unregulated wastestreams are allocated the same limits as the regulated wastestreams they are combined with. There are no dilution wastestreams.

Table 6 Monthly Average Limits

Pollutants	433 M_{Avg}	433 Flow	468 M_{Avg}	468 Flow	Total Flow	CWF Limit
	mg/l	g/d	mg/d	g/d	g/d	mg/l
Cd	0.07	3464	0.07*	3393	6905	0.07
Cr	1.71	3464	0.002	3393	6905	0.86
Cu	2.07	3464	0.007	3393	6905	1.05
Pb	0.43	3464	0.001	3393	6905	0.22
Ni	2.38	3464	0.004	3393	6905	1.20
Ag	0.24	3464	0.24*	3393	6905	0.24
Zn	1.48	3464	0.005	3393	6905	0.75
CN [T]	0.65	3464	0.65*	3393	6905	0.65
TTO	0.004*	3464	0.004	3393	6905	0.004
O&G	0.11*	3464	0.11	3393	6905	0.11

There are no 468.15 limits for Cd, Ag, or CN.
There is no 433 limit for O&G.
There is no 433 monthly average limit for TTOs.
*These unregulated wastestreams are allocated the same limits as the regulated wastestreams they are combined with. There are no dilution wastestreams

The Combined Wastestream Formula (CWF): $Ct = \frac{(\Sigma CiFi)}{(\Sigma Fi)} \times \frac{(Ft-Fd)}{(Ft)}$

An example calculation for chromium is shown:

Combined Wastestream Formula Calculations for D_{max} :
Ct = Modified concentration limit for the combined wastestream for **Cr**
Ci1 = Categorical pretreatment standard concentration limit under 40 CFR 433.17(a): 2.77 mg/l for **Cr**
Ci2 = Categorical pretreatment standard concentration limit under 40 CFR 468.15(a): 0.004 mg/l for **Cr**
Fi1 = Regulated stream, average daily flow 40 CFR 433: 3464 gpd
Fi2 = Regulated stream, average daily flow 40 CFR 468: 3393 gpd
Fd = Dilution stream: 0 gpd
Ft = Average total flow through sample point: 6857 gpd

$$Ct = \frac{[(2.77 \text{ mg/l})(3464 \text{ gpd})] + (0.004 \text{ mg/l})(3393 \text{ gpd})}{[(3464 \text{ gpd}) + (3393 \text{ gpd})]} \times \frac{(6857 \text{ gpd} - 0 \text{ gpd})}{(6857 \text{ gpd})}$$

Ct = 1.40 mg/l

Combined Wastestream Formula Calculations for M_{avg} :-
Ct = Modified concentration limit for the combined wastestream for **Cr**
Ci1 = Categorical pretreatment standard concentration limit under 40 CFR 433.17(a): 1.71 mg/l for **Cr**
Ci2 = Categorical pretreatment standard concentration limit under 40 CFR 468.15(a): 0.002 mg/l for **Cr**
Fi1 = Regulated stream, average daily flow 40 CFR 433: 3464 gpd
Fi2 = Regulated stream, average daily flow 40 CFR 468: 3393 gpd
Fd = Dilution stream: 0 gpd
Ft = Average total flow through sample point: 6857 gpd

$$Ct = \frac{(1.71 \text{ mg/l})(3464 \text{ gpd}) + (0.002 \text{ mg/l})(3393 \text{ gpd})}{(3464 \text{ gpd}) + (3393 \text{ gpd})} \times \frac{(6857 \text{ gpd} - 0 \text{ gpd})}{(6857 \text{ gpd})}$$

Ct = 0.86 mg/l

Similarly, limits for other pollutants are calculated and shown in Table 7.

Table 7

Final Pollutant Limits Calculated Using CWF		
Parameter	**Daily Avg**	**Monthly Avg**
Cadmium	0.11	0.07
Chromium	1.40	0.86
Copper	1.71	1.05
Cyanide*	1.2	0.65
Lead	0.35	0.22
Nickel	2.01	1.20
Silver	0.43	0.24
Zinc	1.32	0.75
TTO	1.08	0.004
Oil & Grease**	0.11	0.11

*Cyanide limits are monitored at Sample Point 2, after treatment of all cyanide-bearing wastewater.

**Jennings Technology Corporation will not be allowed to monitor for Oil & Grease as an alternative to monitoring for TTOs because the alternate Oil & Grease limits are below detection using standard analytical methods.

Jennings Technology Corporation submitted a request for a sampling waiver for bromodichloromethane, bromoform, chloroform, and dibromochloromethane generated from Copper Forming and Metal Finishing. This request included a technical evaluation of their facility to demonstrate that these compounds are not present in their discharge above background levels. Sample results show that the four substances are not present in the discharge above background levels. Jennings Technology Corporation submitted the certification statement as described in 40 CFR 403.6(a)(2)(ii). The request for a sampling waiver is granted with this Permit.

Lenthor Engineering, Inc. Combined Wastestream Formula Calculations

Lenthor Engineering has an outdoor pretreatment system open to the atmosphere that will collect rainwater during storms. The entire pad is secondarily contained, and the accumulated rain will be pumped through the treatment system due to the possibility of contamination. This rainwater is considered a dilution stream. A sample calculation is given. The adjustment to the limits is very small, and in many cases does not change the limit after rounding to two decimal places.

Process Flow: 15,000 gallons per day (gpd)

Area exposed to rain: 20 x 80 feet = 1600 square feet

Average rainfall in Milpitas: 14.9 inches per year = 1.242 feet/year

Average volume of rain: 1600 x 1.242 = 1986.7 cubic feet per year

Conversion to gallons: 7.48 gallons = 1 cubic foot

Average volume of rain: 1986.7 cubic feet per year x 7.48 gallons per cubic foot = 14,860.27 gallons per year

Lenthor Engineering discharges 365 days per year due to their fume scrubber operation

Daily volume of dilution due to rain: 14,860.27 gallons per year / 365 days per year = 41 gpd

Dilution factor: 15,000 / 15,041 = 0.997

Sample calculation: Chromium Daily Maximum: 2.77 mg/L x 0.997 = 2.76 mg/L

Lenthor Engineer Federal Limits at Sample Point 01 adjusted for Rainwater Dilution

Pollutant	Daily Maximum (mg/L)	Monthly Average (mg/L
Cadmium	0.11	0.07
Chromium	2.76	1.71
Copper	3.38	2.06
Cyanide, Total	1.2	0.65
Lead	0.69	0.43
Nickel	3.97	2.37
Silver	0.43	0.24
TTOs	2.12	
Zinc	2.60	1.48

Combined Wastestream Formula Calculations

For Sample Point 01

Linear Technology Corporation

Permit # MI-088B

The Combined Wastestream Formula (CWF): $Ct = \frac{(\Sigma CiFi)}{(\Sigma Fi)} \times \frac{(Ft-Fd)}{(Ft)}$

Where,
Ct = Alternative concentration limit for the combined wastestream for TTOs
Ci = Categorical pretreatment standard concentration limit under 40 CFR 469: 1.37 mg/l for TTOs
Fi = Regulated Semiconductor flowstream, average daily flow: 114,639.5 – 7,500 = 107,139.5 gpd
Fd = Dilution stream: 7,500 gpd
Ft = Average total flow through sample point: 114,639.5 gpd

$$Ct = \frac{(1.37 \text{ mg/l})\ (107{,}139.5)}{(107{,}139.5 \text{ gpd})} \times \frac{(114{,}639.5 \text{ gpd} - 7500 \text{ gpd})}{114{,}639.5 \text{ gpd}}$$

$Ct = 0.9346 \times 1.37$

$Ct = 1.280 \text{ mg/l} \sim 1.28 \text{ mg/l}$

Therefore, new modified TTO limit at sample point 01 = 1.28 mg/l

Combined Wastestream Formula Calculations
For Sample Point 01

List Biological Laboratories, Inc.
Permit No. WV-064B

The Combined Wastestream Formula (CWF): $Ct = \frac{(\Sigma CiFi)}{(\Sigma Fi)} \times \frac{(Ft-Fd)}{(Ft)}$

Where,

Ct = Alternative concentration limit for the combined wastestream for **Acetone** in mg/l
Ci = Categorical pretreatment standard concentration limit under 40 CFR 439.17 for **Acetone** in mg/l
Fi = Regulated stream, average daily flow: 786 gpd
Fd = Dilution stream: 160 + 105+ 28 = 293 gpd
RO Reject – 160 gpd
Boiler Blowdown – 105 gpd
Chiller Blowdown – 28 gpd
Ft = Average total flow through sample point: 1079 gpd

Combined Wastestream Formula Calculations for D_{max} :

$$Ct = \frac{(20.7 \text{ mg/l})(786 \text{ gpd})}{(786 \text{ gpd})} \times \frac{(1079 \text{ gpd} - 293 \text{ gpd})}{1079 \text{ gpd}}$$

Ct = 20.7 * 0.7285

Ct = 15.0799 mg/l ~ 15.08 mg/l

Combined Wastestream Formula Calculations for M_{avg} :

$$Ct = \frac{(8.2 \text{ mg/l})(786 \text{ gpd})}{(786 \text{ gpd})} \times \frac{(1079 \text{ gpd} - 293 \text{ gpd})}{1079 \text{ gpd}}$$

Ct = 8.2 * 0.7285

Ct = 5.9737 mg/l ~ 5.97 mg/l

Similarly, limits for other parameters are calculated and shown in the table below:

Pollutant	Federal Daily Max mg/l	Modified Daily Max mg/l	Federal Monthly Average mg/l	Modified Monthly Average mg/l	Total Average Flow gpd	Dilution Flow gpd
Acetone	20.7	15.080	8.2	5.974	1079	293
Benzene	3.0	2.186	0.7	0.510	1079	293
Chlorobenzene	3.0	2.186	0.7	0.510	1079	293
Chloroform	0.1	0.073	0.03	0.022	1079	293
Cyanide Total	33.5	24.405	9.4	6.848	1079	293
1,2-Dichloroethane	20.7	15.080	8.2	5.974	1079	293
Diethyl amine	255.0	185.768	100	72.850	1079	293
Isopropyl ether	20.7	15.080	8.2	5.974	1079	293
Ethyl acetate	20.7	15.080	8.2	5.974	1079	293
n-Hexane	3.0	2.186	0.7	0.510	1079	293
Isobutyraldehyde	20.7	15.080	8.2	5.974	1079	293
Isopropyl acetate	20.7	15.080	8.2	5.974	1079	293
Methyl formate	20.7	15.080	8.2	5.974	1079	293
4-Methyl-2-pentanone (MIBK)	20.7	15.080	8.2	5.974	1079	293
Methylene Chloride	3.0	2.186	0.7	0.510	1079	293
n-Amyl acetate	20.7	15.080	8.2	5.974	1079	293
n-Butyl acetate	20.7	15.080	8.2	5.974	1079	293
n-Heptane	3.0	2.186	0.7	0.510	1079	293
o-Dichlorobenzene	20.7	15.080	8.2	5.974	1079	293
Tetrahydrofuran	9.2	6.702	3.4	2.477	1079	293
Toluene	0.3	0.219	0.2	0.146	1079	293
Triethyl amine	255.0	185.768	100	72.850	1079	293
Xylene	3.0	2.186	0.7	0.510	1079	293

Lumentum Operations LLC
Combined Wastestream Formula Calculations
Sample Point 02
WTS2 Elementary Neutralization
Federal TTO Limit

Federal TTO Limit for Semiconductor Manufacturing (40 CFR 469.12(a)) = 1.37 mg/l

Semiconductor Manufacturing Flow = 11,912 gallons per day

RO DI Reject Dilution Flow = 4,376 gallons per day

Total Flow = 11,912 + 4,376 = 16,288 gallons per day

Lumentum Operations Federal TTO Limit =
(Federal TTO Limit for Semiconductor Manufacturing * Semiconductor Manufacturing Flow) / Total Flow

Lumentum Operations Federal TTO Limit =
(1.37 mg/l x 11,912 gal per day) / 16,288 gal = **1.00 mg/l**

Combined Wastestream Formula Calculations

Lumileds LLC
Permit No. SJ-528B

The Combined Wastestream Formula (CWF): $Ct = \frac{(\Sigma CiFi)}{(\Sigma Fi)} \times \frac{(Ft-Fd)}{(Ft)}$

Where,
Ct = Alternative concentration limit for the combined wastestream for TTO's
Ci1 = Categorical pretreatment standard concentration limit under 40 CFR 469.18 (a): 1.37 mg/l for TTO's

Fi1 = Regulated stream, average daily flow: 221,500 gpd
Fd = Dilution stream: Cooling Tower Blowdown = 3,400 gpd
Ft = Average total flow through sample point: 224,900 gpd

$$Ct = \frac{(1.37 \text{ mg/l})\ (221{,}500)}{(221{,}500)\text{ gpd}} \times \frac{(224{,}900 \text{ gpd} - 3{,}400 \text{ gpd})}{(224{,}900)\text{ gpd}}$$

$Ct = 1.37 \times 0.985$
$Ct = 1.35$ mg/l

Therefore**, new TTO limit** at final sample point = 1.35 mg/l

Noel Technologies Combined Wastestream Formula Calculations

Pollutant	Metal Finishing Daily Max Limits (mg/L)	Metal Finishing Monthly Average Limits (mg/L)	Semiconductor Manufacturing Daily Max Limit (mg/L)
Cadmium	0.11	0.07	
Chromium	2.77	1.71	
Copper	3.38	2.07	
Cyanide Total	1.20	0.65	
Lead	0.69	0.43	
Nickel	3.98	2.38	
Silver	0.43	0.24	
TTO-F	2.13		1.37
Zinc	2.61	1.48	

Daily average discharge flow from metal finishing processes – 550 gallons

Daily average discharge flow from semiconductor manufacturing processes – 1550 gallons

For the metal finishing metal and cyanide limits the semiconductor manufacturing wastewater is considered an unregulated stream since those pollutants are not regulated by a categorical standard from that category. The unregulated semiconductor manufacturing discharge is assigned the same limits as metal finishing discharges for use in the combined wastestream formula for metals and cyanide. For the TTO limit, the limits from each category are combined into the final limit based on the standard categorical limits and the discharge flows.

TTO Daily Maximum Calculation

(2.13 mg/L*550 gpd) + 1.37 mg/L*1550 gpd) / (550 gpd + 1550 gpd) = 1.57 mg/L

Final Limits for Noel Technologies from the use of the Combined Wastestream Formula

Pollutant	Daily Maximum Limits (mg/L)	Monthly Average Limits (mg/L)
Cadmium	0.11	0.07
Chromium	2.77	1.71
Copper	3.38	2.07
Cyanide Total	1.20	0.65
Lead	0.69	0.43
Nickel	3.98	2.38
Silver	0.43	0.24
TTO-F	1.57	
Zinc	2.61	1.48

OLS ENERGY – AGNEWS
Combined Wastestream Formula Calculations

Permitted Concentration Limit = Categorical Concentration Limit from 40CFR423 * (Total Flow – Dilution Flow) / Total Flow

Categorical Concentration Limits from 40CFR423 – Daily maximum (mg/L)

Chromium – 0.2 Cooling Tower Blowdown
Copper – 1.0 Chemical Metal Cleaning Wastes
Zinc – 1.0 Cooling Tower Blowdown

Process Flow = 33,100 gpd, Cooling Tower Blowdown (Total Flow – Dilution Flow)
Dilution Flow = 25,735 gpd, RO Reject, Boiler Blowdown, Sanitary
Total Flow = 58,835 gpd

There is no chemical cleaning performed at this facility. The only categorical wastestream is the cooling tower blowdown. The federal categorical limits of 0.2 mg/l of chromium and 1.0 mg/l of zinc are applicable to this discharger, but not the federal categorical limit for copper.

None of the 126 priority pollutants from Appendix A of 40CFR423 are included on the hazardous materials chemical inventory for this facility. Testing for these compounds will not be required.

OLS Energy-Agnews Daily Maximum Limits from Combined Wastestream Formula

Chromium = 0.2 * 33,100 / 58,835 = 0.11 mg/L

Zinc = 1.0 * 33,100 / 58,835 = 0.56 mg/L

Combined Wastestream Formula (CWF) Calculation for Cyanide (CN)

Pac Tech USA Packing Technologies

Calculation:

Note: For calculation of a combined wastestream formula limit for Cyanide any non-cyanide process flows are considered dilution.

CWF Limit = Federal Categorical CN Limit *CN Process Flow / Total Process Flow

Federal Categorical Cyanide Limit for Metal Finishing:

Daily Maximum Limit = 1.20 mg/l

Monthly Average Limit = 0.65 mg/l

Total Process Flow = Non-CN Process Flow & CN Process Flows
Total Process Flow = 9,980 gallons per day (gpd)

CN Process Flow = 890 gpd

Daily Maximum Limit = (1.20 mg/l*890 gpd) / 9,980 gpd = 0.11 mg/l

Monthly Average Limit = (0.65 mg/l*890 gpd) / 9,980 gpd = 0.060 mg/l

New CWF Cyanide limits:

Cyanide Daily Maximum Limit = 0.11 mg/l

Cyanide Monthly Average Limit = 0.060 mg/l

PERKINELMER, INC.
COMBINED WASTESTREAM FORMULA CALCULATIONS
TOTAL TOXIC ORGANICS

PROCESS NAME	DILUTION FLOW (GPD)	CATEGORICL PROCESS FLOW (GPD)
Process Waters		36295
Scrubber Waters		3404
Cooling Tower Makeup	720	
Boiler Blowdown	720	
RO Reject Water	19674	
Filter Backwash	300	
Vacuum Pumps	5760	
Air Handler/Humidifier	3604	
Totals	30778	39699

Standard Categorical TTO limit for 40CFR469 = 1.37 mg/l

Adjustment due to dilution= 39699/ (39699 + 30778) = 0.56

PerkinElmer , Inc. TTO limit = 1.37 mg/l x 0.56 **= 0.77 mg/l**

Combined Wastestream Formula Calculations

For Sample Point 01

Solexel, Inc.

Permit # MI-143B

The Combined Wastestream Formula (CWF): $Ct = \frac{(\Sigma CiFi)}{(\Sigma Fi)} \times \frac{(Ft-Fd)}{(Ft)}$

Where,
Ct = Alternative concentration limit for the combined wastestream for TTOs
Ci = Categorical pretreatment standard concentration limit under 40 CFR 469: 1.37 mg/l for TTOs
Fi = Regulated Semiconductor flowstream, average daily flow: 137,080 – 2,880 = 134,200 gpd
Fd = Dilution stream: 2,800 gpd
Ft = Average total flow through sample point: 137,080 gpd

$$Ct = \frac{(1.37 \text{ mg/l})\,(134{,}200 \text{ gpd})}{(134{,}200 \text{ gpd})} \times \frac{(137{,}080 \text{ gpd} - 2{,}880 \text{ gpd})}{(137{,}080 \text{ gpd})}$$

$Ct = 0.9790 \times 1.37$

$Ct = 1.3412 \text{ mg/l} \sim 1.34 \text{ mg/l}$

Therefore, new modified TTO limit at sample point 01 = 1.34 mg/l

Combined Wastestream Calculations for Sample Point 1

STREAMLINE CIRCUITS
Permit SC-350A

Alternate Concentration Limit Formula
When total number of regulated wastestreams = 1, the following formula will apply;

$$Ct = \frac{Ci\ Fi}{Fi} \times \frac{(Ft - Fd)}{Ft}$$

Where,

Ct = Alternate concentration limit for combined wastestream for Cd in mg/l
Ci = Categorical pretreatment standard concentration limit under 40 CFR 433.17a for Cd in regulated stream i
Fi = Average daily flow (at least 30 day average) of regulated stream (78,356.6) gpd)
Fd = Average daily flow (at least 30 day average) of dilute wastestream (80.4 gpd)
Ft = Average daily flow (at least 30 day average) through the combined treatment facility (including regulated, unregulated, and dilute wastestreams) (78,437 gpd)

Number of regulated streams =1
Therefore
Ct for Daily Maximum Limit for Cd

$$\text{Ct for Cd} = \frac{0.11\ \text{mg/l} \times 78{,}356.6\ \text{gpd}}{78{,}356.6\ \text{gpd}} \times \frac{(78{,}437\ \text{gpd} - 80.4\ \text{gpd})}{78{,}437\ \text{gpd}}$$

Ct for Cd= 0.11 mg/l

Ct for Monthly Average for Cd

$$\text{Ct for Cd} = \frac{0.07\ \text{mg/l} \times 78{,}356.6\ \text{gpd}}{78{,}356.6\ \text{gpd}} \times \frac{(78{,}437\ \text{gpd} - 80.4\ \text{gpd})}{78{,}437\ \text{gpd}}$$

Ct for Cd= 0.07 mg/l

Similarly, limits for other parameters were calculated.

THAT Corporation Combined Waste Stream Formula Calculations

The Combined Wastestream Formual (CWF):

$$C_t = \left[\frac{\left(\sum C_i F_i\right)}{\left(\sum F_i\right)}\right] \times \left[\frac{(F_t - F_d)}{(F_t)}\right]$$

C_t = Modified concentration limit for the combined wastestream

C_i = Concentration limit of regulated wastewater discharges = 40 CFR 469 Subpart A TTO concentraction

Fi = Individual regulated wastewater flowrates = 40 CFR 469 Subpart A Categorical Process Water = Semiconductor Sink and Rinse Process Water Flow Rate and City Water entering Aspirators and Scrubbers Processes Flow Rate

F_t = Total Industrial Process Water

F_d = Dilution wastewater flow = Reverse osmosis reject = 633.71 gpd

Assuming dilution wastewater concentration for TTO is zero

C_i = 1.37 mg/l

F_i = 2900.22 mg/l

F_t = 3533.39 gpd

F_d = 633.71 gpd

$$C_t = \left[\frac{\left(\sum 1.37\,\text{mg/l} \times 2900\,\text{gpd}\right)}{\left(\sum 2900\,\text{gpd}\right)}\right] \times \left[\frac{(3533\,\text{gpd} - 633\,\text{gpd})}{(3533\,\text{gpd})}\right]$$

C_t = 1.12 mg/l

A. 2 LOCAL DISCHARGE CONDITIONS-INTERFERING SUBSTANCES AND AVERAGE LIMITS

UNIVERSAL SEMICONDUCTOR

Combined Wastestream Formula Calculations for Federal TTO Limit

Universal Semiconductor is a New Source Semiconductor Manufacturer

40 CFR 469 Federal TTO Limit (C469) = 1.37 mg/L

Semiconductor Manufacturing Categorical Discharge volume = 432 gpd

RO Reject water dilution flow volume (Fd) = 180 gpd

Total wastewater through federal sample point (Ft): 432 + 180 = 612 gpd

Combined Wastestream Formula TTO Limit calculation: Ccwf = C469 (Ft – Fd)/Ft

Ccwf = 1.37 mg/L * (612 gpd – 180 gpd) / 612 gpd = 1.37 * 432 / 612 = 0.97

Adjusted Federal 40 CFR 469 TTO Limit = 0.97 mg/L

VAREX IMAGING
COMBINED WASTESTREAM FORMULA CALCULATIONS
TOTAL TOXIC ORGANICS

PROCESS NAME	DILUTION FLOW (GPD)	CATEGORICAL PROCESS FLOW (GPD)
Process Waters		39699
Cooling Tower Blowdown	720	
Boiler Blowdown	720	
RO Reject Water	19674	
Filter Backwash	300	
Vacuum Pumps	5760	
Air Handler/Humidifier	3604	
Totals	30778	39699

Standard Categorical TTO limit for 40CFR469 = 1.37 mg/l

Adjustment due to dilution= 39699/ (39699 + 30778) = 0.56

Varex Imaging TTO limit = 1.37 mg/l x 0.56 **= 0.77 mg/l**

Combined Wastestream Formula Calculation for alternate Cyanide limit

For sample Point #1

Vishay/Siliconix
Permit No. SC-282A

The Combined Wastestream Formula (CWF): $Ct = \frac{(\Sigma CiFi)}{(\Sigma Fi)} \times \frac{(Ft-Fd)}{(Ft)}$

Where,

Ct = Alternative/Adjusted concentration limit for the combined wastestream for CN
Ci = Categorical pretreatment standard concentrations limit under 40 CFR 433.17 (a)
Daily Maximum Limit= 1.2 mg/L for CN
Monthly Average Limit= 0.65 mg/L for CN
Fi = Average Daily Flow, regulated CN process stream [40 CFR 433]: 1,875 gpd
Fd= Dilution stream, regulated non-CN process stream: 8,125 gpd
Ft = Average total flow through sample point: 10,000 gpd

Therefore,

Daily Maximum Limit,

$$Ct = \frac{(1.20 \text{ mg/l})\ (1{,}875 \text{ gpd})}{(1{,}875 \text{ gpd})} \times \frac{(10{,}000 \text{ gpd} - 8{,}125 \text{ gpd})}{(10{,}000 \text{ gpd})}$$

Ct = (1.20) (0.1875)
Ct = 0.225 ~ 0.23 mg/L

New Daily Maximum CN limit at sample point #1 = 0.23 mg/l

Monthly Average Limit,

$$Ct = \frac{(0.65 \text{ mg/l})\ (1{,}875 \text{ gpd})}{(1{,}875 \text{ gpd})} \times \frac{(10{,}000 \text{gpd} - 8{,}125 \text{ gpd})}{(10{,}000 \text{ gpd})}$$

Ct = (0.65) (0.1875)
Ct = 0.122 ~ 0.12 mg/L

New Monthly Average CN limit at sample point #1 = 0.12 mg/l

1. The permittee uses a Cyanide process for Gold and Zinc plating. Due to space and plumbing constraints the permittee is unable to install a Federal Cyanide sample point after the Cyanide process.

2. Cyanide will be monitored at Sample Point 01, the effluent from plating line [Cyanide + Non-Cyanide process]. Cyanide limits at this sample point have been modified using the combined wastestream formula [above].

3. The permittee reclaims 100% of their treated heavy metal wastewater as scrubber makeup water.

2017 Local Standards

This section includes a list of the local standards that are regulated by the Wastewater Facility. This table lists local limits for parameters applicable to standard and low flow industrial dischargers.

2017 Local Standards

Toxic Substance	Standard Discharger Maximum Allowable Concentration*	Low Flow Discharger Maximum Allowable Concentration**
Antimony	5.0 mg/l	5.0 mg/l
Arsenic	1.0 mg/l	1.0 mg/l
Beryllium	0.75 mg/l	0.75 mg/l
Cadmium	0.7 mg/l	0.7 mg/l
Chromium, Total	1.0 mg/l	1.0 mg/l
Copper	2.3 mg/l	2.7 mg/l
Cyanide	0.5 mg/l	0.5 mg/l
Lead	0.4 mg/l	0.4 mg/l
Mercury	0.010 mg/l	0.010 mg/l
Nickel	0.5mg/l	2.6 mg/l
Oil and Grease (O&G)	150 mg/l	150 mg/l
pH	6 – <12.5	6 – <12.5
Phenol & derivatives	30.0 mg/l	30.0 mg/l
Selenium	1.0 mg/l	1.0 mg/l
Silver	0.7 mg/l	0.7 mg/l
Zinc	2.6 mg/l	2.6 mg/l

* Standard Discharger – Any Industrial Discharger who is not a low flow discharger.

** Low Flow Discharger – An Industrial User whose average process flow, as shown on the Discharger's Application to Discharge and as measured as a rolling six month average, is less than one thousand (1,000) gallons per day.

Baseline Monitoring Report for 2017

Company	Permit No.	BMR Due	IU Notified	Submitted	BMR Comments
Apple, Inc.	SC-461B	01/28/2017	11/28/2016	01/20/2017	Due to potentially proprietary chemicals being used in process, the BMR will not allow certification of TTOs, to confirm TTOs expected to be present are accurate. SMRs will allow certification of a SMP.
Thin Film Electronics, Inc.	SJ-685B	08/24/2017	05/23/2017	08/24/2017	The BMR was received within 90 days of initial permit issuance.

The permit number is retrieved from the permit active on the last day of the year.

2017 Pretreatment Program Changes

Organizational Changes

In 2017, the Source Control section was split into two groups: the IU Inspection group and the Monitoring, Dental, and Investigation group. One Environmental Inspector was promoted to a Senior Inspector, which was a newly created position in Source Control's Monitoring, Dental, and Investigation group. One Environmental Inspector transferred from Source Control due to a departure in Environmental Engineering. Additionally, three Assistant Environmental Inspectors were promoted to fill two vacancies in the Monitoring, Dental and Investigation group and one vacancy in the IU Inspection group. Two Assistant Environmental Inspectors were hired to fill vacancies due to promotions in Source Control. One Environmental Inspector was hired to fill a vacancy in the IU Inspection. One Senior Office Specialist was hired to fill a vacancy in the Clerical group.

The Lab hired six Laboratory Technicians, one Chemist, and one QA Chemist during 2017 to fill vacancies from promotions and departures. Two Laboratory Technicians were promoted to Chemist to fill vacancies, and one Chemist was promoted to Environmental Lab Supervisor, which was a newly created position. One QA Chemist position left vacant due to a departure. An updated organization chart is included in the section entitled "Pretreatment Program Expenses."

2016 Pretreatment Compliance Inspection

A Pretreatment Compliance Inspection (PCI) was conducted on June 27-29, 2016, by a contractor, Tetra Tech, representing the San Francisco Bay Regional Water Quality Control Board and the EPA. The 2016 PCI Summary Report is pending as of the date of this report.

Enforcement Response Plan

The City is in the process of revising its Enforcement Response Plan (ERP). The ERP revisions are expected to be submitted for approval by the RWQCB in 2018 for approval before implementation.

Restaurant Inspections and Plan Check Program Changes

In late 2016, the City hired a consulting firm to assess the impact of FOG on the RWF. The study found that the greater impact of FOG-laden wastewater discharges is likely in the collection system in terms of sewer line maintenance burden and the frequency of FOG related blockages and SSOs, and less so on the RWF itself. Minimal RWF resources are needed for capturing, collecting, transporting and disposing of the FOG that does make it to the RWF. The primary impact of FOG at the RWF appears to be the cost associated with transport and landfill disposal of the collected FOG waste.

Additionally, the study found that if the amount of FOG discharged to the RWF were to significantly increase, it would not stress the RWF's ability to treat FOG, nor impact RWF processes, nor would it cause the RWF to be in danger of being out of compliance with its NPDES-mandated discharge limits. FOG does not appear to be an issue of concern at the RWF at this time, and likely would not be in the future even if FOG volumes at the RWF were to significantly increase.

Based on this information, the City proposed that the tributary wide commercial FOG control inspections and grease control device sizing plan check review no longer be funded by treatment plant operating funds. The Treatment Plant Advisory Committee (TPAC) approved the proposal in May 2017, and transitioned FOG Control efforts to the individual cities and agencies as of July 1, 2017. San José continued FOG Control inspections under a different funding source starting in the new fiscal year within the City of San José jurisdiction and worked with the tributary agencies to transition FOG inspections to those jurisdictions. As part of these changes, San José staff also ceased performing GCD sizing plan check reviews for FSEs in the tributary agencies' jurisdiction as of June 30, 2017. The transition was finalized in December 2017 and all contributing tributary jurisdictions have established commercial FOG Control programs.

The consulting firm also developed guidance documentation for sizing grease control devices based on the latest version of the Uniform Plumbing Code and modernized criteria used for sizing GCDs while complying with County Health requirements and providing adequate protection for the collection system. Pretreatment staff began using this new guidance documents for GCD sizing in June 2017, and provided it to the RWF tributary agencies as part of the FOG Control Program transition. San José also transitioned plan check review responsibility to San José's Building Division in July 2017. The Building Division already performed all plumbing and other plan review and permitting duties, so this move streamlined the entire plan review process for FSEs. The Building Division staff fully took over Plan Check duties as of August 31, 2017.

Pretreatment Program Expenses For Fiscal Year 2016-2017

The total number of staff devoted to the pretreatment program including staff in Source Control, the Laboratory, Fats, Oil, and Grease (FOG), and Engineering is 49.99 full-time employees. Personal service expenses, including fringe benefits, and non-personal expenses were $6.5 million. The table entitled, "Pretreatment Program Expenses for Fiscal Year 2016/2017," is a breakdown of these expenses.

Non-personnel expenses include supplies, training, printing reports, dues, and subscriptions. The table includes line items for outreach materials and contract work.

The Laboratory personnel distribution was based on sample work load, type of analysis (wet chemistry or using advanced instruments), level of training or experience of the staff, and requested turn-around times.

The source of the funding is the Treatment Plant Operating Fund (Fund 513), comprised of funding from the tributary agencies. Revenue for this fund is generated through the collection of sewer use fees on the customer's property tax bill in San José and payments from the other tributary agencies.

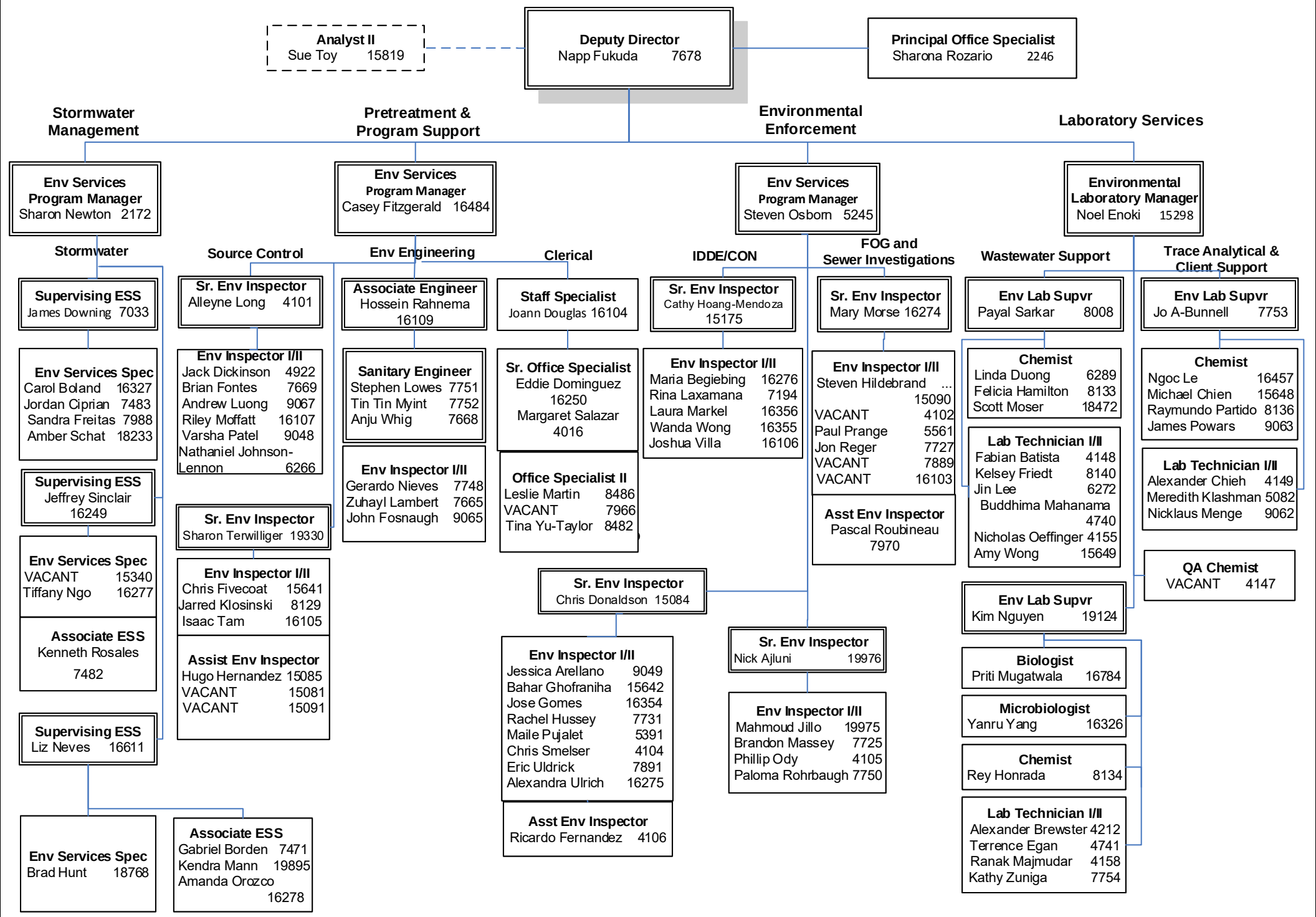
Pretreatment Program Expenses for Fiscal Year 2016-2017

Position Title	FTEs for 2016-2017		Salary & Fringe
Deputy Director	0.60	$	193,425
Laboratory Supervisor (LAB)	1.30	$	236,071
Lab Manager (LAB)	0.25	$	59,247
Environmental Program Manager (PT)	1.00	$	160,485
Environmental Program Manager (FOG)	0.50	$	113,776
Senior Environmental Inspector (PT)	2.00	$	181,398
Senior Environmental Inspector (FOG)	1.00	$	212,584
Associate Engineer (ENG)	1.00	$	209,128
Sanitary Engineer (ENG)	3.00	$	468,776
Environmental Inspector (PT)	9.00	$	1,058,664
Environmental Inspector (FOG)	7.00	$	812,374
Environmental Inspector (ENG)	3.00	$	401,358
Assistant Environmental Inspector (PT)	3.00	$	191,242
Assistant Environmental Inspector (FOG)	2.00	$	153,156
Laboratory Technician (LAB)	5.00	$	436,613
Chemist (LAB)	5.00	$	786,931
Office Specialist (SUP)	2.07	$	210,467
Senior Office Specialist (SUP)	1.38	$	123,534
Principal Office Specialist (SUP)	0.60	$	71,696
Staff Specialist (SUP)	0.69	$	89,617
Analyst II (SUP)	0.60	$	95,320
Personnel Total	**49.99**	**$**	**6,265,862**

SUP = Support
ENG = Engineering
FOG = Fats Oil and Grease
LAB = Laboratory
PT = Pretreatment

Non-Personal Expenses			
Source Control Supplies		$	16,484
Engineering Supplies		$	572
Fats, Oil, and Grease Supplies		$	5,301
Computers/Software		$	51,510
Laboratory Supplies		$	157,150
Printing and Duplicating		$	2,197
Training (all travel expenses)		$	6,834
Dues & Subscriptions		$	4,071
Non-Personal Total		**$**	**244,119**
Contractual Services			
Source Control Training		$	-
Temporary Contract Staff		$	39,547
Lab Services (outside testing)		$	6,653
Professional & Contractual Services		$	15,725
Contractual Services Total		**$**	**61,925**
Outreach Expenses			
Outreach Support		$	2,340
Outreach Expenses Total		**$**	**2,340**
Total Pretreatment Program Expenses FY 2016-2017		**$**	**6,574,245**

Watershed Protection Division



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2018 FEB 21 PM 4:34

CITY OF SAN JOSE
CAPITAL OF SILICON VALLEY

Memorandum

TO: Toni Taber
City Clerk

FROM: Kerrie Romanow

SUBJECT: **SEE BELOW**

DATE: February 21, 2018

Approved

Date

SUBJECT: PUBLICATION OF LEGAL NOTICE FOR INDUSTRIAL WASTE DISCHARGERS IN SIGNIFICANT NON-COMPLIANCE WITH EPA AND LOCAL PRETREATMENT STANDARDS IN 2017

BACKGROUND

The Environmental Services Department of the City of San José, as control authority for the San José-Santa Clara Regional Wastewater Facility, is required by Federal Pretreatment Regulations to publish annually a list of industrial wastewater dischargers who, during the previous twelve months were in Significant Non-Compliance of applicable EPA and Local Pretreatment Standards. The San José-Santa Clara Regional Wastewater Facility's definition of Significant Non-Compliance is consistent with the EPA General Pretreatment Regulations. The definition is as follows:

- Chronic violations of wastewater Discharge limits, defined here as those in which 66 percent or more of all of the measurements taken for the same pollutant parameter during a 6-month period exceed (by any magnitude) a numeric Pretreatment Standard or Requirement, including instantaneous limits, as defined by 40 CFR 403.3(l).
- Technical Review Criteria (TRC) violations, defined here as those in which 33 percent or more of all of the measurements taken for the same pollutant parameter during a 6-month period equal or exceed the product of the numeric Pretreatment Standard or Requirement including instantaneous limits, as defined by 40 CFR 403.3(l) multiplied by the applicable TRC (TRC=1.4 for BOD, TSS, fats, oil, and grease, and 1.2 for all other pollutants except pH).
- Any other violation of a Pretreatment Standard or Requirement as defined by 40 CFR 403.3(l) (daily maximum, long-term average, instantaneous limit, or narrative Standard) that the POTW determines has caused, alone or in combination with other Discharges, Interference or Pass Through (including endangering the health of POTW personnel or the general public).
- Any discharge of a pollutant that has caused imminent endangerment to human health, welfare, or to the environment or has resulted in the POTW's exercise of its emergency authority under 40 CFR 403.8(f)(1)(vi)(B) to halt or prevent such a discharge.

- Failure to meet, within 90 days after the schedule date, a compliance schedule milestone contained in a local control mechanism or enforcement order for starting construction, completing construction, or attaining final compliance.
- Failure to provide, within 45 days after the due date, required reports such as baseline monitoring reports, 90-day compliance reports, periodic self-monitoring reports, and reports on compliance with compliance schedules.
- Failure to accurately report non-compliance.
- Any other violation or group of violations, which may include a violation of Best Management Practices, which the POTW determines will adversely affect the operation or implementation of the local Pretreatment program.
- For pH chart recorder violations SNC is evaluated when:

  - The industrial discharger caused corrosion to the sanitary sewer system,
  - The violations have a common cause and the industrial discharger has failed to respond to the violations, and/or
  - The number of days the pH chart recorder indicates the discharge is outside of permit limits 66 percent or more of the days in operation within the compliance period.

There were six industrial wastewater dischargers found to be in Significant Non-Compliance in 2017. Of these dischargers, one is located in the City of San José, three are located in the City of Santa Clara, one is located in the City of Milpitas, and one is located in the West Valley Sanitation District. Of these dischargers, four have now achieved compliance and two were still in Significant Non-Compliance at the end of the fourth quarter. These include: Arnold's Metal Finishing and Metal Finishing Solutions. The City is working with these facilities to achieve consistent compliance.

ACTION REQUIRED

Please process the attached Notice of Non-Compliance for a one day publication in the San Jose Mercury News.

FOR Kerrie Romanow
Director, Environmental Services

Attachment: Notice of Non-Compliance

cc: Dave Sykes, City Manager
Jennie Loft, ESD

ATTACHMENT
CITY OF SAN JOSÉ - NOTICE OF NON-COMPLIANCE
WITH PRETREATMENT STANDARDS FOR DISCHARGE OF INDUSTRIAL
WASTEWATER TO THE SEWERAGE SYSTEM

Under Environmental Protection Agency (EPA) General Pretreatment Regulations (40 CFR 403.8 (f)(2)(viii)), the Environmental Services Department of the City of San José is required to publish annually a list of industrial wastewater dischargers located within the tributary area who, during the previous calendar year, were in Significant Non-Compliance with applicable federal and local Pretreatment Standards for their industry consistent with the definition contained in 40 CFR 403.8 (f)(2)(viii)(A-H). The dischargers are listed below for the calendar year 2017.

Amalar, Inc.
2317 Calle De Luna, Santa Clara, CA 95054
APPLICABLE PRETREATMENT STANDARD: 40 CFR 403.8 (f)(2)(viii)(F), 40 CFR 403.12(h), and Santa Clara City Code 13.10.580
VIOLATION: Failed to submit Self-Monitoring Report within 45 days
CURRENT STATUS: Inconsistent Compliance Federal, Inconsistent Compliance Local
QUARTERS IN SIGNIFICANT NON-COMPLIANCE: 1st

Arnold's Metal Finishing
805 Aldo Ave. Unit 104, Santa Clara, CA 95054
APPLICABLE PRETREATMENT STANDARD: 40 CFR 403.8 (f)(2)(viii)(B) and 40 CFR 433.17(a)
VIOLATION: Exceeded the federal monthly average nickel concentration limit TRC for 33%+ of the measurements taken during a six month period
CURRENT STATUS: Significant Non-Compliance Federal
QUARTERS IN SIGNIFICANT NON-COMPLIANCE: 4th

Etched Media Corporation
101 Gilman Ave., Campbell, CA 95008
APPLICABLE PRETREATMENT STANDARD: 40 CFR 403.8 (f)(2)(viii)(A and B), 40 CFR 433.17(a), and West Valley Sanitation District Ordinance Code 7.180
VIOLATION: Exceeded the local maximum allowable copper, silver, and zinc concentration limits for 66%+ of the measurements taken and TRC for 33%+ of the measurements taken during a six month period
CURRENT STATUS: Not Scheduled to Be Sampled
QUARTERS IN SIGNIFICANT NON-COMPLIANCE: 1st

Metal Finishing Solutions, Inc.
870 Comstock St., Santa Clara, CA 95054
APPLICABLE PRETREATMENT STANDARD: 40 CFR 403.8 (f)(2)(viii)(F), 40 CFR 403.12(h), and Santa Clara City Code 13.10.580
VIOLATION: Failed to submit enforcement action response and Slug Discharge Prevention Plan within 45 days
CURRENT STATUS: Significant Non-Compliance Federal, Significant Non-Compliance Local
QUARTERS IN SIGNIFICANT NON-COMPLIANCE: 4th

Sanmina Corp Plant II
2068 Bering Dr., San Jose, CA 95131
APPLICABLE PRETREATMENT STANDARD: 40 CFR 403.8 (f)(2)(viii)(B) and 40 CFR 433.17(a)
VIOLATION: Exceeded the federal monthly average copper concentration limit TRC for 33%+ of the measurements taken during a six month period
CURRENT STATUS: Consistent Compliance
QUARTERS IN SIGNIFICANT NON-COMPLIANCE: 1st

Solexel, Inc.
1532 McCarthy Blvd., Milpitas, CA 95035
APPLICABLE PRETREATMENT STANDARD: 40 CFR 403.8 (f)(2)(viii)(F), 40 CFR 403.12(h), and City of Milpitas Municipal Code 5.46
VIOLATION: Failed to submit Self-Monitoring Report within 45 days
CURRENT STATUS: Not Scheduled to Be Sampled
QUARTERS IN SIGNIFICANT NON-COMPLIANCE: 3rd

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CITY OF SAN JOSE
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SAN JOSE, CA 95113

PROOF OF PUBLICATION
IN THE CITY OF SAN JOSE
IN THE STATE OF CALIFORNIA
COUNTY OF SANTA CLARA

FILE NO. Melrose: Non-Compliance/Industrial Waste

In the matter of
San Jose Mercury News

The undersigned, being first duly sworn, deposes and says: That at all times hereinafter mentioned affiant was and still is a citizen of the United States, over the age of eighteen years, and not a party to or interested in the above entitled proceedings; and was at and during all said times and still is the principal clerk of the printer and publisher of the San Jose Mercury News, a newspaper of general circulation printed and published daily in the City of San Jose, County of Santa Clara, State of California as determined by the court's decree dated June 27, 1952, Case Numbers 84096 and 84097, and that said San Jose Mercury News is and was at all times herein mentioned a newspaper of general circulation as that term is defined by Sections 6000; that at all times said newspaper has been established, printed and published in the said County and State at regular intervals for more than one year preceding the first publication of the notice herein mentioned. Said decree has not been revoked, vacated or set aside.

I declare that the notice, of which the annexed is a true printed copy, has been published in each regular or entire issue of said newspaper and not in any supplement thereof on the following dates, to wit:

02/27/2018

Dated at San Jose, California
February 27, 2018

I declare under penalty of perjury that the foregoing is true and correct.

Principal clerk of the printer and publisher of the San Jose Mercury News

Legal No. **0006112555**

CITY OF SAN JOSÉ - NOTICE OF NON-COMPLIANCE WITH PRETREATMENT STANDARDS FOR DISCHARGE OF INDUSTRIAL WASTEWATER TO THE SEWERAGE SYSTEM

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QUARTERS IN SIGNIFICANT NON-COMPLIANCE: 3rd

SJMN#6112555; February 27, 2018

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CURRENT STATUS: Not Scheduled to Be Sampled
QUARTERS IN SIGNIFICANT NON-COMPLIANCE: 3rd

SJMN#6112555; February 27, 2018

Sewage Sludge (Biosolids) Annual Report

EPA Regulations – 503.18, 503.28, 503.48

INSTRUCTIONS

EPA's sewage sludge regulations (40 CFR part 503) require certain POTWs and Class I sewage sludge management facilities to submit to an annual biosolids report. POTWs that must submit an annual report include POTWs with a design flow rate equal to or greater than one million gallons per day, and POTWs that serve 10,000 people or more. This is the biosolids annual report form for POTWs and Class I sewage sludge management facilities in the 42 states and all tribes and territories where EPA administers the Federal biosolids program.

For the purposes of this form, the term 'sewage sludge' also refers to the material that is commonly referred to as 'biosolids.' EPA does not have a regulatory definition for biosolids but this material is commonly referred to as sewage sludge that is placed on, or applied to the land to use the beneficial properties of the material as a soil amendment, conditioner, or fertilizer. EPA's use of the term 'biosolids' in this form is to confirm that information about beneficially used sewage sludge (a.k.a. biosolids) should be reported on this form.

Please note that questions with a (*) are required. Please also note that EPA may contact you after you submit this report for more information regarding your sewage sludge program.

Questions regarding this form should be directed to the NPDES Electronic Reporting Helpdesk at:

- NPDESeReporting@epa.gov OR
- 1-877-227-8965

What action would you like to take? *

New Biosolids Program Report

1. Program Information

Please select the NPDES ID number below for this Sewage Sludge (Biosolids) Annual Report. *

CAL037842: SAN JOSE/SANTA CLARA RWF

IMPORTANT - If you do not see the NPDES ID associated with your facility (i.e., you only see a blue bar in the above drop down list), you MUST follow the instructions in the "Biosolids User's Guide." A shorter set of instructions to fix this issue are in the "Important Instructions on Accessing Your NPDES ID" document. Both documents are located at: https://epanet.zendesk.com/hc/en-us/sections/207108787-General-Biosolids.

Facility Name: SAN JOSE/SANTA CLARA RWF

Street: 700 Los Esteros Rd.

City: SAN JOSE

State: CA

Zip Code: 95134-1001

1.1 Please select at least one of the following options pertaining to your obligation to submit a Sewage Sludge (Biosolids) Annual Report in compliance with 40 CFR 503. The facility is: *

- ☒ a POTW with a design flow rate equal to or greater than one million gallons per day
- ☒ a POTW that serves 10,000 people or more
- ☒ a Class I Sludge Management Facility as defined in 40 CFR 503.9
- ☐ otherwise required to report (e.g., permit condition, enforcement action)
- ☐ none of the above

1.2 Reporting Period Start and End Dates

Start Date of Reporting Period *	End Date of Reporting Period *
01-01-2017	12-31-2017

2. Facility Information

2.1 Biosolids or Sewage Sludge Treatment Processes

Please check the box next to the following biosolids or sewage sludge treatment processes that you used on the sewage sludge or biosolids generated or produced at your facility during the reporting period (check one or more that apply). *

Pathogen Reduction Operations (see Appendix B to Part 503)

Processes to Significantly Reduce Pathogens (PSRP)

- ☐ Aerobic Digestion
- ☒ Air Drying (or "sludge drying beds")
- ☒ Anaerobic Digestion
- ☐ Lower Temperature Composting
- ☐ Lime Stabilization

Processes to Further Reduce Pathogens (PFRP)

- ☐ Higher Temperature Composting
- ☐ Heat Drying (e.g., flash dryer, spray dryer, rotary dryer)
- ☐ Heat Treatment (Liquid sewage sludge is heated to temp. of 356°F (or 180°C) or higher for 30 min.)
- ☐ Thermophilic Aerobic Digestion
- ☐ Beta Ray Irradiation
- ☐ Gamma Ray Irradiation
- ☐ Pasteurization

Physical Treatment Operations

- ☐ Preliminary Operations (e.g., sludge grinding, degritting, blending)
- ☒ Thickening (e.g., gravity and/or flotation thickening, centrifugation, belt filter press, vacuum filter)
- ☒ Sludge Lagoon

Other Processes to Manage Sewage Sludge

- ☐ Temporary Sludge Storage (sewage sludge stored on land 2 years or less, not in sewage sludge unit)
- ☐ Long-term Sludge Storage (sewage sludge stored on land 2 years or more, not in sewage sludge unit)
- ☒ Methane or Biogas Capture and Recovery
- ☐ Other Treatment Process:

2.2 Biosolids or Sewage Sludge Analytical Methods

EPA regulations specify that representative samples of sewage sludge that is applied to the land, placed on a surface disposal site, or fired in a sewage sludge incinerator must be collected and analyzed. These regulations also specify the analytical methods that must be used to analyze samples of sewage sludge. For example, EPA requires facilities to monitor for the certain parameters, which are listed in Tables 1, 2, 3, and 4 at 40 CFR 503.13 and Tables 1 and 2 40 CFR 503.23. See also 40 CFR 503.8.

Please check the box next to the following analytic methods used on the sewage sludge or biosolids generated or produced by you or your facility during the reporting period (check one or more that apply). *

Parameter	Method Number or Author	Description Text for Certification Section
Pathogens		
Ascaris ova.	☐ Sludge Monitoring - Ascaris ova. ☐ Other Ascaris ova. Analytical Method:	Sludge Monitoring - Ascaris ova., "Method for the Recovery and Assay of Total Culturable Viruses from Sludge (Appendix I)," Control of Pathogens and Vector Attraction in Sewage Sludge", EPA-625-R-92-013, July 2003

Parameter	Method Number or Author	Description Text for Certification Section
Enteric viruses	☐ ASTM Method D4994 - Enteric Viruses	ASTM Method D4994 - Enteric Viruses, "Standard Practice for Recovery of Viruses From Wastewater Sludges," ASTM International
	☐ Other Enteric Viruses Analytical Method:	
Fecal coliform	☐ Standard Method 9222 - Fecal Coliform	Standard Method 9222 - Fecal Coliform, "Standard Methods for the Examination of Water and Wastewater," American Public Health Association [Note: This method is only allowable for Class B sewage sludge]
	☐ Standard Method 9221 - Fecal Coliform	Standard Method 9221 - Fecal Coliform, "Standard Methods for the Examination of Water and Wastewater," American Public Health Association
	☐ EPA Method 1680 - Fecal Coliform	EPA Method 1680 - Fecal Coliform, "Fecal Coliforms in Sewage Sludge by Multiple-Tube Fermentation using Lauryl Tryptose Broth and EC Medium," EPA-821-R-10-003, April 2010
	☐ EPA Method 1681 - Fecal Coliform	EPA Method 1681 - Fecal Coliform, Fecal Coliforms in Sewage Sludge (Biosolids) by MultipleTube Fermentation using A-1 medium, EPA-821-R-04-027, June 2005
	☐ Other Fecal Coliform Analytical Method:	
Helminth ova.	☐ W.A. Yanko Method - Helminth ova.	W.A. Yanko Method - Helminth Ova., "Occurrence of Pathogens in Distribution and Marketing Municipal Sludges," EPA-600-1-87-014, 1987
	☐ Other Helminth ova. Analytical Method:	
Salmonella sp. Bacteria	☐ Standard Method 9260 - Salmonella	Standard Method 9260 - Salmonella, "Standard Methods for the Examination of Water and Wastewater," American Public Health Association
	☐ EPA Method 1682 - Salmonella	EPA Method 1682, "Salmonella in Sewage Sludge (Biosolids) by Modified Semisolid Rappaport-Vassiliadis (MSRV) Medium," EPA-821-R-06-014, July 2006
	☐ Kenner and Clark Method - Salmonella	Kenner and Clark Method - Salmonella, “Detection and Enumeration of Salmonella and Pseudomonas aeruginosa,” J. Water Pollution Control Federation, 46(9):2163-2171, 1974
	☐ Other Salmonella sp. Bacteria Analytical Method:	
Total Culturable Viruses	☐ Class A Sludge Monitoring - Total Culturable Viruses	EPA Class A Sludge Monitoring - Total Culturable Viruses, "Method for the Recovery and Assay of Total Culturable Viruses from Sludge (Appendix H)," Control of Pathogens and Vector Attraction in Sewage Sludge, EPA-625-R-92-013, July 2003
	☐ Other Total Culturable Viruses Analytical Method:	
Metals		
Arsenic	☒ EPA Method 6010 - Arsenic (ICP-OES)	EPA Method 6010 - Arsenic (Inductively Coupled Plasma - Optical Emission Spectrometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	☐ EPA Method 6020 - Arsenic (ICP-MS)	EPA Method 6020 - Arsenic (Inductively Coupled Plasma - Mass Spectrometry), "Test Methods for Evaluating Solid Waste, Physical/ Chemical Methods," EPA Pub. SW-846
	☐ EPA Method 7010 - Arsenic (GF-AAS)	EPA Method 7010 - Arsenic (Graphite Furnace Atomic Absorption Spectrophotometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	☐ EPA Method 7061 - Arsenic (AA-GH)	EPA Method 7061 - Arsenic (Atomic Absorption - Gaseous Hydride), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	☐ Other Arsenic Analytical Method:	
Beryllium	☒ EPA Method 6010 - Beryllium (ICP-OES)	EPA Method 6010 - Beryllium (Inductively Coupled Plasma - Optical Emission Spectrometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	☐ EPA Method 6020 - Beryllium (ICP-MS)	EPA Method 6020 - Beryllium (Inductively Coupled Plasma - Mass Spectrometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	☐ EPA Method 7000 - Beryllium (FAAS)	EPA Method 7000 - Beryllium (Flame Atomic Absorption Spectrophotometry), "Test Methods for Evaluating Solid Waste, Physical/ Chemical Methods," EPA Pub. SW-846
	☐ EPA Method 7010 - Beryllium (GF-AAS)	EPA Method 7010 - Beryllium (Graphite Furnace Atomic Absorption Spectrophotometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	☐ Other Beryllium Analytical Method	

Parameter	Method Number or Author	Description Text for Certification Section
Cadmium	☒ EPA Method 6010 - Cadmium (ICP-OES)	EPA Method 6010 - Cadmium (Inductively Coupled Plasma - Optical Emission Spectrometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	☐ EPA Method 6020 - Cadmium (ICP-MS)	EPA Method 6020 - Cadmium (Inductively Coupled Plasma - Mass Spectrometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	☐ EPA Method 7000 - Cadmium (FAAS)	EPA Method 7000 - Cadmium (Flame Atomic Absorption Spectrophotometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	☐ EPA Method 7010 - Cadmium (GF-AAS)	EPA Method 7010 - Cadmium (Graphite Furnace Atomic Absorption Spectrophotometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	☐ EPA Method 7131 - Cadmium (GF-AAS)	EPA Method 7131 - Cadmium (Graphite Furnace Atomic Absorption Spectrophotometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	☐ Other Cadmium Analytical Method:	
Chromium	☒ EPA Method 6010 - Chromium (ICP-OES)	EPA Method 6010 - Chromium (Inductively Coupled Plasma - Optical Emission Spectrometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	☐ EPA Method 6020 - Chromium (ICP-MS)	EPA Method 6020 - Chromium (Inductively Coupled Plasma - Mass Spectrometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	☐ EPA Method 7000 - Chromium (FAAS)	EPA Method 7000 - Chromium (Flame Atomic Absorption Spectrophotometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	☐ EPA Method 7010 - Chromium (GF-AAS)	EPA Method 7010 - Chromium (Graphite Furnace Atomic Absorption Spectrophotometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	☐ EPA Method 7191 - Chromium (AA-FT)	EPA Method 7191 - Chromium (Atomic Absorption - Furnace Technique), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	☐ Other Chromium Analytical Method:	
Copper	☒ EPA Method 6010 - Copper (ICP-OES)	EPA Method 6010 - Copper (Inductively Coupled Plasma - Optical Emission Spectrometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	☐ EPA Method 6020 - Copper (ICP-MS)	EPA Method 6020 - Copper (Inductively Coupled Plasma - Mass Spectrometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	☐ EPA Method 7000 - Copper (FAAS)	EPA Method 7000 - Copper (Flame Atomic Absorption Spectrophotometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	☐ EPA Method 7010 - Copper (GF-AAS)	EPA Method 7010 - Copper (Graphite Furnace Atomic Absorption Spectrophotometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	☐ Other Copper Analytical Method:	
Lead	☒ EPA Method 6010 - Lead (ICP-OES)	EPA Method 6010 - Lead (Inductively Coupled Plasma - Optical Emission Spectrometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	☐ EPA Method 6020 - Lead (ICP-MS)	EPA Method 6020 - Lead (Inductively Coupled Plasma - Mass Spectrometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	☐ EPA Method 7000 - Lead (FAAS)	EPA Method 7000 - Lead (Flame Atomic Absorption Spectrophotometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	☐ EPA Method 7010 - Lead (GF-AAS)	EPA Method 7010 - Lead (Graphite Furnace Atomic Absorption Spectrophotometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	☐ EPA Method 7421 - Lead (AA-FT)	EPA Method 7421 - Lead (Atomic Absorption - Furnace Technique), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	☐ Other Lead Analytical Method:	
Mercury	☒ EPA Method 7471 - Mercury (CVAA)	EPA Method 7471 - Mercury in Solid or Semi-Solid Waste (Cold Vapor Atomic Absoprtion), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	☐ Other Mercury Analytical Method:	

Parameter	Method Number or Author	Description Text for Certification Section
Molybdenum	☒ EPA Method 6010 - Molybdenum (ICP-OES)	EPA Method 6010 - Molybdenum (Inductively Coupled Plasma - Optical Emission Spectrometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	☐ EPA Method 6020 - Molybdenum (ICP-MS)	EPA Method 6020 - Molybdenum (Inductively Coupled Plasma - Mass Spectrometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	☐ EPA Method 7000 - Molybdenum (FAAS)	EPA Method 7000 - Molybdenum (Flame Atomic Absorption Spectrophotometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	☐ EPA Method 7010 - Molybdenum (GF-AAS)	EPA Method 7010 - Molybdenum (Graphite Furnace Atomic Absorption Spectrophotometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	☐ EPA Method 7481 - Molybdenum (AA-FT)	EPA Method 7481 - Molybdenum (Atomic Absorption - Furnace Technique), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	☐ Other Molybdenum Analytical Method:	
Nickel	☒ EPA Method 6010 - Nickel (ICP-OES)	EPA Method 6010 - Nickel (Inductively Coupled Plasma - Optical Emission Spectrometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	☐ EPA Method 6020 - Nickel (ICP-MS)	EPA Method 6020 - Nickel (Inductively Coupled Plasma - Mass Spectrometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	☐ EPA Method 7000 - Nickel (FAAS)	EPA Method 7000 - Nickel (Flame Atomic Absorption Spectrophotometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	☐ EPA Method 7010 - Nickel (GF-AAS)	EPA Method 7010 - Nickel (Graphite Furnace Atomic Absorption Spectrophotometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	☐ Other Nickel Analytical Method:	
Selenium	☒ EPA Method 6010 - Selenium (ICP-OES)	EPA Method 6010 - Selenium (Inductively Coupled Plasma - Optical Emission Spectrometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	☐ EPA Method 6020 - Selenium (ICP-MS)	EPA Method 6020 - Selenium (Inductively Coupled Plasma - Mass Spectrometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	☐ EPA Method 7010 - Selenium (GF-AAS)	EPA Method 7010 - Selenium (Graphite Furnace Atomic Absorption Spectrophotometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	☐ EPA Method 7740 - Selenium (AA-FT)	EPA Method 7741A - Selenium (Atomic Absorption - Furnace Technique), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	☐ EPA Method 7741 - Selenium (AA-GH)	EPA Method 7741 - Selenium (Atomic Absorption - Gaseous Hydride), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	☐ Other Selenium Analytical Method:	
Zinc	☒ EPA Method 6010 - Zinc (ICP-OES)	EPA Method 6010 - Zinc (Inductively Coupled Plasma - Optical Emission Spectrometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	☐ EPA Method 6020 - Zinc (ICP-MS)	EPA Method 6020 - Zinc (Inductively Coupled Plasma - Mass Spectrometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	☐ EPA Method 7000 - Zinc (FAAS)	EPA Method 7000 - Zinc (Flame Atomic Absorption Spectrophotometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	☐ EPA Method 7010 - Zinc (GF-AAS)	EPA Method 7010 - Zinc (Graphite Furnace Atomic Absorption Spectrophotometry), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	☐ Other Zinc Analytical Method:	

Nitrogen Compounds

Ammonia Nitrogen	☐ EPA Method 350.1 - Ammonia Nitrogen	EPA Method 350.1 - Ammonia Nitrogen, "Determination of Ammonia Nitrogen by Semi-Automated Colorimetry," August 1993
	☐ Standard Method 4500-NH3 - Ammonia Nitrogen	Standard Method 4500-NH3 - Ammonia Nitrogen, "Standard Methods for the Examination of Water and Wastewater," American Public Health Association
	☐ Other Ammonia Nitrogen Analytical Method	
Nitrate Nitrogen	☐ EPA Method 9056 - Nitrate Nitrogen (IC)	EPA Method 9056 - Nitrate Nitrogen (Ion Chromatography), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	☐ EPA Method 9210 - Nitrate Nitrogen (ISE)	EPA Method 9210 - Nitrate Nitrogen (Ion-Selective Electrode), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	☐ Other Nitrate Nitrogen Analytical Method:	

Parameter	Method Number or Author	Description Text for Certification Section
Nitrogen	☐ Standard Method 4500-N - Nitrogen	Standard Method 4500-N - Nitrogen, "Standard Methods for the Examination of Water and Wastewater," American Public Health Association
	☐ Other Nitrogen Analytical Method:	
Organic Nitrogen	☐ Standard Method 4500-Norg - Organic Nitrogen	Standard Method 4500-Norg - Organic Nitrogen, "Standard Methods for the Examination of Water and Wastewater," American Public Health Association
	☐ Other Organic Nitrogen Analytical Method:	
Total Kjeldahl Nitrogen	☐ EPA Method 351.2 - Total Kjeldahl Nitrogen	EPA Method 351.2 - Total Kjeldahl Nitrogen, "Determination of Total Kjeldahl Nitrogen by Semi-Automated Colorimetry," August 1993
	☐ Other Total Kjeldahl Nitrogen Analytical Method:	

Other Analytes

Fixed Solids	☐ Standard Method 2540 - Fixed Solids	Standard Method 2540 - Total, fixed, and volatile solids, "Standard Methods for the Examination of Water and Wastewater," American Public Health Association
	☐ Other Fixed Solids Analytical Method:	
Paint Filter Test	☐ EPA Method 9095 - Paint Filter Liquids Test	EPA Method 9095 - Paint Filter Liquids Test, "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	☐ Other Paint Filter Test Analytical Method:	
pH	☐ EPA Method 9040 - pH (≤ 7% solids)	EPA Method 9040 - pH (≤ 7% solids), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	☐ EPA Method 9045 - pH (> 7% solids)	EPA Method 9045 - pH (> 7% solids), "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	☐ Other pH Analytical Method:	
Specific Oxygen Uptake Rate	☐ Standard Method 2710 - SOUR	Standard Method 2710 - Specific Oxygen Uptake Rate, "Standard Methods for the Examination of Water and Wastewater," American Public Health Association
	☐ Other Specific Oxygen Uptake Rate Analytical Method:	
TCLP	☐ EPA Method 1311 - Toxicity Characteristic Leaching Procedure	EPA Method 1311 - Toxicity Characteristic Leaching Procedure, "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Pub. SW-846
	☐ Other TCLP Analytical Method:	
Temperature	☐ Standard Method 2550 - Temperature	Standard Method 2550 - Temperature, "Standard Methods for the Examination of Water and Wastewater," American Public Health Association
	☐ Other Temperature Analytical Method:	
Total Solids	☒ Standard Method 2540 - Total Solids	Standard Method 2540 - Total, fixed, and volatile solids, "Standard Methods for the Examination of Water and Wastewater," American Public Health Association
	☐ Other Total Solids Analytical Method:	
Volatile Solids	☒ Standard Method 2540 - Volatile Solids	Standard Method 2540 - Total, fixed, and volatile solids, "Standard Methods for the Examination of Water and Wastewater," American Public Health Association
	☐ Other Volatile Solids Analytical Method:	
No Analytical Methods	☐ No Analytical Methods Used	

2.3 What is the estimated total volume of biosolids or sewage sludge produced at your facility for the reporting period (in dry metric tons)? *

43534

3. Biosolids or Sewage Sludge Management

EPA NPDES regulations at 40 CFR 503 only require reporting for land application, surface disposal, or incineration. You have the option to select "Other Management Practice" if you wish to provide more information on how you manage your sewage sludge or biosolids.

Please use the selections below to identify how sewage sludge or biosolids generated or produced at your facility was managed, used, or disposed by you or your facility for the reporting period. You can use the button below to add as many Sewage Sludge Unique Identifier (SSUID) sections as needed to describe how you manage your sewage sludge.

SSUID Section

Sewage Sludge Unique Identifier (SSUID): 001

Management Practice Type *	Handler or Preparer Type *	Management Practice Detail *
Other Management Practice	Owner or Operator	Use as Daily Cover for Municipal Landfill (under 40 CFR 258)

Please Note: Land Application includes the distribution and marketing (sale or give away) of Class A EQ.

Bulk or Bag/Container *	Pathogen Class *	Volume Amount (dry metric tons) *
Bulk	Class B	43534

Do you have any deficiencies to report for this SSUID? *

◯ Yes ◉ No

☒ Check when done with SSUID section. *

Additional Information

Please enter any additional information in the comment box below (limit to 3,900 characters) that you would like to provide.

Additional Attachments

File: Test America Final Report QA-QC'd.pdf

Certification Information

Certifier E-Mail *

amit.mutsuddy@sanjoseca.gov

☒ Confirm Certifier: amit.mutsuddy@sanjoseca.gov *

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-189530-1
Client Project/Site: Plant Operations

For:
City of San Jose Water Pollution Control
700 Los Esteros Road
San Jose, California 95134

Attn: Rey Honrada

Authorized for release by:
8/28/2017 5:07:31 PM

Janice Hsu, Project Manager I
(949)261-1022
janice.hsu@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Sample Summary

Client: City of San Jose Water Pollution Control
Project/Site: Plant Operations

TestAmerica Job ID: 440-189530-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-189530-21	LD97435	Solid	08/01/17 11:04	08/03/17 18:30
440-189530-22	LD97436	Solid	08/01/17 11:04	08/03/17 18:30
440-189530-23	LD97437	Solid	08/01/17 11:04	08/03/17 18:30
440-189530-24	LD97438	Solid	08/01/17 11:04	08/03/17 18:30
440-189530-25	LD97439	Solid	08/01/17 11:04	08/03/17 18:30
440-189530-26	LD97440	Solid	08/01/17 11:04	08/03/17 18:30
440-189530-27	LD97441	Solid	08/01/17 11:04	08/03/17 18:30
440-189530-28	LD97442	Solid	08/01/17 11:04	08/03/17 18:30
440-189530-29	LD97443	Solid	08/01/17 11:04	08/03/17 18:30

Job ID: 440-189530-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-189530-1

Comments
No additional comments.

Receipt
The samples were received on 8/3/2017 6:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.4° C.

GC/MS VOA
Method(s) 8260B: The following sample was diluted due to the nature of the sample matrix: LD97435 (440-189530-21). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 440-421499 and analytical batch 440-421583 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 8270C: The following sample was diluted due to the nature of the sample matrix: LD97436 (440-189530-22). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method(s) 8015B: The method blank for preparation batch 440-421930 and analytical batch 440-422061 contained C18-C40 above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction or re-analysis of samples was not performed.

Method(s) 8081A: Surrogate recovery for the following samples was outside control limits: LD97438 (440-189530-24) and (440-189530-A-24-A MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8081A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 440-421742 and analytical batch 440-422186 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 8081A: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 440-421742 and analytical batch 440-422186 was outside control limits. Sample matrix interference is suspected.

Method(s) 8081A: The following samples required a copper clean-up to reduce matrix interferences caused by sulfur: LD97438 (440-189530-24), (LCS 440-421742/2-A), (MB 440-421742/1-A), (440-189530-A-24-A MS) and (440-189530-A-24-B MS).

Method(s) 8082: Elevated reporting limits are provided for the following samples due to insufficient sample provided for preparation: LD97437 (440-189530-23).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method(s) 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 440-421627 and analytical batch 440-421990 were outside control limits for Antimony. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Job ID: 440-189530-1 (Continued)

Laboratory: TestAmerica Irvine (Continued)

General Chemistry
Method(s) 9095B: The following sample does not have enough to filter 100g, instead 50g was used.
LD97443 (440-189530-29) and (440-189530-A-29 DU)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
Method(s) 3546: The following sample was diluted due to the nature of the sample matrix: clay like dark moist rocky LD97436 (440-189530-22). Elevated reporting limits (RLs) are provided. 8270 Regulars

Method(s) 3546: Due to the matrix, the following sample could not be concentrated to the final method required volume: LD97436 (440-189530-22). The reporting limits (RLs) are elevated proportionately.

Method(s) 3546: The following samples was diluted due to the nature of the sample matrix:dark soil LD97437 (440-189530-23), (440-189530-A-23 MS) and (440-189530-A-23 MSD). Elevated reporting limits (RLs) are provided.8082

Method(s) 3546: Due to the matrix, the following sample could not be concentrated to the final method required volume: 0.5 (440-189530-A-23 MS). The reporting limits (RLs) are elevated proportionately.

Method(s) 3546: The following samples was diluted due to the nature of the sample matrix: black soft clay LD97438 (440-189530-24), (440-189530-A-24 MS) and (440-189530-A-24 MSD). Elevated reporting limits (RLs) are provided.8081

Method(s) 3546: The following samples was diluted due to the nature of the sample matrix: dark oily moist, dust/hair LD97437 (440-189530-23), (440-189530-A-23 MS) and (440-189530-A-23 MSD). Elevated reporting limits (RLs) are provided.8082

Method(s) 3546: The following samples was diluted due to the nature of the sample matrix: dark moist wet sand LD97442 (440-189530-28), (440-189530-A-28 MS) and (440-189530-A-28 MSD). Elevated reporting limits (RLs) are provided. DRO SGC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client: City of San Jose Water Pollution Control
Project/Site: Plant Operations

TestAmerica Job ID: 440-189530-1

Client Sample ID: LD97435
Date Collected: 08/01/17 11:04
Date Received: 08/03/17 18:30

Lab Sample ID: 440-189530-21
Matrix: Solid
Percent Solids: 65.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		35	7.1	ug/Kg	☼		08/08/17 16:15	1
1,1,1-Trichloroethane	ND		14	7.1	ug/Kg	☼		08/08/17 16:15	1
1,1,2,2-Tetrachloroethane	ND		14	7.1	ug/Kg	☼		08/08/17 16:15	1
1,1,2-Trichloroethane	ND		14	7.1	ug/Kg	☼		08/08/17 16:15	1
1,1-Dichloroethane	ND		14	7.1	ug/Kg	☼		08/08/17 16:15	1
1,1-Dichloroethene	ND		35	7.1	ug/Kg	☼		08/08/17 16:15	1
1,1-Dichloropropene	ND		14	7.1	ug/Kg	☼		08/08/17 16:15	1
1,2,3-Trichlorobenzene	ND		35	7.1	ug/Kg	☼		08/08/17 16:15	1
1,2,3-Trichloropropane	ND		71	7.1	ug/Kg	☼		08/08/17 16:15	1
1,2,4-Trichlorobenzene	ND		35	7.1	ug/Kg	☼		08/08/17 16:15	1
1,2,4-Trimethylbenzene	ND		14	7.1	ug/Kg	☼		08/08/17 16:15	1
1,2-Dibromo-3-Chloropropane	ND		35	14	ug/Kg	☼		08/08/17 16:15	1
1,2-Dibromoethane (EDB)	ND		14	7.1	ug/Kg	☼		08/08/17 16:15	1
1,2-Dichlorobenzene	ND		14	7.1	ug/Kg	☼		08/08/17 16:15	1
1,2-Dichloroethane	ND		14	7.1	ug/Kg	☼		08/08/17 16:15	1
1,2-Dichloropropane	ND		14	7.1	ug/Kg	☼		08/08/17 16:15	1
1,3,5-Trimethylbenzene	ND		14	7.1	ug/Kg	☼		08/08/17 16:15	1
1,3-Dichlorobenzene	ND		14	7.1	ug/Kg	☼		08/08/17 16:15	1
1,3-Dichloropropane	ND		14	7.1	ug/Kg	☼		08/08/17 16:15	1
1,4-Dichlorobenzene	ND		14	7.1	ug/Kg	☼		08/08/17 16:15	1
2,2-Dichloropropane	ND		14	7.1	ug/Kg	☼		08/08/17 16:15	1
2-Chloroethyl vinyl ether	ND		35	18	ug/Kg	☼		08/08/17 16:15	1
2-Chlorotoluene	ND		35	7.1	ug/Kg	☼		08/08/17 16:15	1
4-Chlorotoluene	ND		35	7.1	ug/Kg	☼		08/08/17 16:15	1
Acrolein	ND		710	71	ug/Kg	☼		08/08/17 16:15	1
Acrylonitrile	ND		710	140	ug/Kg	☼		08/08/17 16:15	1
Benzene	ND		14	7.1	ug/Kg	☼		08/08/17 16:15	1
Bromobenzene	ND		35	7.1	ug/Kg	☼		08/08/17 16:15	1
Bromochloromethane	ND		35	7.1	ug/Kg	☼		08/08/17 16:15	1
Bromodichloromethane	ND		14	7.1	ug/Kg	☼		08/08/17 16:15	1
Bromoform	ND		35	14	ug/Kg	☼		08/08/17 16:15	1
Bromomethane	ND		35	7.1	ug/Kg	☼		08/08/17 16:15	1
Carbon tetrachloride	ND		35	7.1	ug/Kg	☼		08/08/17 16:15	1
Chlorobenzene	ND		14	7.1	ug/Kg	☼		08/08/17 16:15	1
Chloroethane	ND		35	14	ug/Kg	☼		08/08/17 16:15	1
Chloroform	ND		14	7.1	ug/Kg	☼		08/08/17 16:15	1
Chloromethane	ND		35	7.1	ug/Kg	☼		08/08/17 16:15	1
cis-1,2-Dichloroethene	ND		14	7.1	ug/Kg	☼		08/08/17 16:15	1
cis-1,3-Dichloropropene	ND		14	7.1	ug/Kg	☼		08/08/17 16:15	1
Dibromochloromethane	ND		14	7.1	ug/Kg	☼		08/08/17 16:15	1
Dibromomethane	ND		14	7.1	ug/Kg	☼		08/08/17 16:15	1
Dichlorodifluoromethane	ND		35	14	ug/Kg	☼		08/08/17 16:15	1
Ethanol	ND		2100	710	ug/Kg	☼		08/08/17 16:15	1
Ethylbenzene	ND		14	7.1	ug/Kg	☼		08/08/17 16:15	1
Ethyl-t-butyl ether (ETBE)	ND		35	7.1	ug/Kg	☼		08/08/17 16:15	1
Hexachlorobutadiene	ND		35	7.1	ug/Kg	☼		08/08/17 16:15	1
Isopropyl Ether (DIPE)	ND		35	7.1	ug/Kg	☼		08/08/17 16:15	1
Isopropylbenzene	ND		14	7.1	ug/Kg	☼		08/08/17 16:15	1
m,p-Xylene	ND		28	14	ug/Kg	☼		08/08/17 16:15	1

Note: ¤ is listed under the "D" column to designate that the result is reported on a dry weight basis

Client Sample ID: LD97435

Date Collected: 08/01/17 11:04
Date Received: 08/03/17 18:30

Lab Sample ID: 440-189530-21

Matrix: Solid
Percent Solids: 65.5

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		140	35	ug/Kg	☼		08/08/17 16:15	1
Methyl-t-Butyl Ether (MTBE)	ND		35	7.1	ug/Kg	☼		08/08/17 16:15	1
Naphthalene	ND		35	14	ug/Kg	☼		08/08/17 16:15	1
n-Butylbenzene	ND		35	7.1	ug/Kg	☼		08/08/17 16:15	1
N-Propylbenzene	ND		14	7.1	ug/Kg	☼		08/08/17 16:15	1
o-Xylene	ND		14	7.1	ug/Kg	☼		08/08/17 16:15	1
p-Isopropyltoluene	ND		14	7.1	ug/Kg	☼		08/08/17 16:15	1
sec-Butylbenzene	ND		35	7.1	ug/Kg	☼		08/08/17 16:15	1
Styrene	ND		14	7.1	ug/Kg	☼		08/08/17 16:15	1
Tert-amyl-methyl ether (TAME)	ND		35	7.1	ug/Kg	☼		08/08/17 16:15	1
tert-Butyl alcohol (TBA)	ND		710	71	ug/Kg	☼		08/08/17 16:15	1
tert-Butylbenzene	ND		35	7.1	ug/Kg	☼		08/08/17 16:15	1
Tetrachloroethene	ND		14	7.1	ug/Kg	☼		08/08/17 16:15	1
Toluene	ND		14	7.1	ug/Kg	☼		08/08/17 16:15	1
trans-1,2-Dichloroethene	ND		14	7.1	ug/Kg	☼		08/08/17 16:15	1
trans-1,3-Dichloropropene	ND		14	7.1	ug/Kg	☼		08/08/17 16:15	1
Trichloroethene	ND		14	7.1	ug/Kg	☼		08/08/17 16:15	1
Trichlorofluoromethane	ND		35	7.1	ug/Kg	☼		08/08/17 16:15	1
Vinyl chloride	ND		35	7.1	ug/Kg	☼		08/08/17 16:15	1
Xylenes, Total	ND		28	14	ug/Kg	☼		08/08/17 16:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*79 - 120*		*08/08/17 16:15*	*1*
Dibromofluoromethane (Surr)	*107*		*60 - 120*		*08/08/17 16:15*	*1*
Toluene-d8 (Surr)	*104*		*79 - 123*		*08/08/17 16:15*	*1*

Client Sample ID: LD97436

Date Collected: 08/01/17 11:04
Date Received: 08/03/17 18:30

Lab Sample ID: 440-189530-22

Matrix: Solid
Percent Solids: 65.5

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10000	4100	ug/Kg	☼	08/05/17 07:31	08/10/17 05:33	5
1,2-Dichlorobenzene	ND		10000	2100	ug/Kg	☼	08/05/17 07:31	08/10/17 05:33	5
1,2-Diphenylhydrazine(as Azobenzene)	ND		10000	2100	ug/Kg	☼	08/05/17 07:31	08/10/17 05:33	5
1,3-Dichlorobenzene	ND		10000	4100	ug/Kg	☼	08/05/17 07:31	08/10/17 05:33	5
1,4-Dichlorobenzene	ND		10000	4100	ug/Kg	☼	08/05/17 07:31	08/10/17 05:33	5
2,4,5-Trichlorophenol	ND		10000	4000	ug/Kg	☼	08/05/17 07:31	08/10/17 05:33	5
2,4,6-Trichlorophenol	ND		10000	2300	ug/Kg	☼	08/05/17 07:31	08/10/17 05:33	5
2,4-Dichlorophenol	ND		10000	2100	ug/Kg	☼	08/05/17 07:31	08/10/17 05:33	5
2,4-Dimethylphenol	ND		10000	4000	ug/Kg	☼	08/05/17 07:31	08/10/17 05:33	5
2,4-Dinitrophenol	ND		20000	10000	ug/Kg	☼	08/05/17 07:31	08/10/17 05:33	5
2,4-Dinitrotoluene	ND		10000	2500	ug/Kg	☼	08/05/17 07:31	08/10/17 05:33	5
2,6-Dinitrotoluene	ND		10000	2900	ug/Kg	☼	08/05/17 07:31	08/10/17 05:33	5
2-Chloronaphthalene	ND		10000	2100	ug/Kg	☼	08/05/17 07:31	08/10/17 05:33	5
2-Chlorophenol	ND		10000	2100	ug/Kg	☼	08/05/17 07:31	08/10/17 05:33	5
2-Methylnaphthalene	ND		10000	2100	ug/Kg	☼	08/05/17 07:31	08/10/17 05:33	5
2-Methylphenol	ND		10000	2500	ug/Kg	☼	08/05/17 07:31	08/10/17 05:33	5
2-Nitroaniline	ND		10000	2100	ug/Kg	☼	08/05/17 07:31	08/10/17 05:33	5

Client Sample ID: LD97436
Date Collected: 08/01/17 11:04
Date Received: 08/03/17 18:30

Lab Sample ID: 440-189530-22
Matrix: Solid
Percent Solids: 65.5

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitrophenol	ND		10000	4100	ug/Kg	☼	08/05/17 07:31	08/10/17 05:33	5
3,3'-Dichlorobenzidine	ND		25000	4600	ug/Kg	☼	08/05/17 07:31	08/10/17 05:33	5
3-Methylphenol + 4-Methylphenol	ND		10000	4100	ug/Kg	☼	08/05/17 07:31	08/10/17 05:33	5
3-Nitroaniline	ND		10000	4100	ug/Kg	☼	08/05/17 07:31	08/10/17 05:33	5
4,6-Dinitro-2-methylphenol	ND		13000	4100	ug/Kg	☼	08/05/17 07:31	08/10/17 05:33	5
4-Bromophenyl phenyl ether	ND		10000	2300	ug/Kg	☼	08/05/17 07:31	08/10/17 05:33	5
4-Chloro-3-methylphenol	ND		10000	2100	ug/Kg	☼	08/05/17 07:31	08/10/17 05:33	5
4-Chloroaniline	ND		10000	4100	ug/Kg	☼	08/05/17 07:31	08/10/17 05:33	5
4-Chlorophenyl phenyl ether	ND		10000	2600	ug/Kg	☼	08/05/17 07:31	08/10/17 05:33	5
4-Nitroaniline	ND		25000	4100	ug/Kg	☼	08/05/17 07:31	08/10/17 05:33	5
4-Nitrophenol	ND		25000	4300	ug/Kg	☼	08/05/17 07:31	08/10/17 05:33	5
Acenaphthene	ND		10000	2100	ug/Kg	☼	08/05/17 07:31	08/10/17 05:33	5
Acenaphthylene	ND		10000	2100	ug/Kg	☼	08/05/17 07:31	08/10/17 05:33	5
Aniline	ND		13000	2600	ug/Kg	☼	08/05/17 07:31	08/10/17 05:33	5
Anthracene	ND		10000	2500	ug/Kg	☼	08/05/17 07:31	08/10/17 05:33	5
Benzidine	ND		41000	20000	ug/Kg	☼	08/05/17 07:31	08/10/17 05:33	5
Benzo[a]anthracene	ND		10000	2100	ug/Kg	☼	08/05/17 07:31	08/10/17 05:33	5
Benzo[a]pyrene	ND		10000	2100	ug/Kg	☼	08/05/17 07:31	08/10/17 05:33	5
Benzo[b]fluoranthene	ND		10000	2100	ug/Kg	☼	08/05/17 07:31	08/10/17 05:33	5
Benzo[g,h,i]perylene	ND		10000	3400	ug/Kg	☼	08/05/17 07:31	08/10/17 05:33	5
Benzo[k]fluoranthene	ND		10000	2100	ug/Kg	☼	08/05/17 07:31	08/10/17 05:33	5
Benzoic acid	ND		25000	10000	ug/Kg	☼	08/05/17 07:31	08/10/17 05:33	5
Benzyl alcohol	ND		10000	4600	ug/Kg	☼	08/05/17 07:31	08/10/17 05:33	5
bis (2-chloroisopropyl) ether	ND		10000	4100	ug/Kg	☼	08/05/17 07:31	08/10/17 05:33	5
Bis(2-chloroethoxy)methane	ND		10000	4100	ug/Kg	☼	08/05/17 07:31	08/10/17 05:33	5
Bis(2-chloroethyl)ether	ND		10000	2100	ug/Kg	☼	08/05/17 07:31	08/10/17 05:33	5
Bis(2-ethylhexyl) phthalate	**3600**	**J**	10000	2800	ug/Kg	☼	08/05/17 07:31	08/10/17 05:33	5
Butyl benzyl phthalate	ND		10000	2500	ug/Kg	☼	08/05/17 07:31	08/10/17 05:33	5
Chrysene	ND		10000	2300	ug/Kg	☼	08/05/17 07:31	08/10/17 05:33	5
Dibenz(a,h)anthracene	ND		13000	3100	ug/Kg	☼	08/05/17 07:31	08/10/17 05:33	5
Dibenzofuran	ND		10000	2100	ug/Kg	☼	08/05/17 07:31	08/10/17 05:33	5
Diethyl phthalate	ND		10000	2900	ug/Kg	☼	08/05/17 07:31	08/10/17 05:33	5
Dimethyl phthalate	ND		10000	2100	ug/Kg	☼	08/05/17 07:31	08/10/17 05:33	5
Di-n-butyl phthalate	ND		10000	2800	ug/Kg	☼	08/05/17 07:31	08/10/17 05:33	5
Di-n-octyl phthalate	ND		10000	2800	ug/Kg	☼	08/05/17 07:31	08/10/17 05:33	5
Fluoranthene	ND		10000	2100	ug/Kg	☼	08/05/17 07:31	08/10/17 05:33	5
Fluorene	ND		10000	2100	ug/Kg	☼	08/05/17 07:31	08/10/17 05:33	5
Hexachlorobenzene	ND		10000	2100	ug/Kg	☼	08/05/17 07:31	08/10/17 05:33	5
Hexachlorobutadiene	ND		10000	4100	ug/Kg	☼	08/05/17 07:31	08/10/17 05:33	5
Hexachlorocyclopentadiene	ND		25000	4100	ug/Kg	☼	08/05/17 07:31	08/10/17 05:33	5
Hexachloroethane	ND		10000	4100	ug/Kg	☼	08/05/17 07:31	08/10/17 05:33	5
Indeno[1,2,3-cd]pyrene	ND		10000	4000	ug/Kg	☼	08/05/17 07:31	08/10/17 05:33	5
Isophorone	ND		10000	2100	ug/Kg	☼	08/05/17 07:31	08/10/17 05:33	5
Naphthalene	ND		10000	2100	ug/Kg	☼	08/05/17 07:31	08/10/17 05:33	5
Nitrobenzene	ND		10000	2100	ug/Kg	☼	08/05/17 07:31	08/10/17 05:33	5
N-Nitrosodimethylamine	ND		10000	2100	ug/Kg	☼	08/05/17 07:31	08/10/17 05:33	5
N-Nitrosodi-n-propylamine	ND		7700	2100	ug/Kg	☼	08/05/17 07:31	08/10/17 05:33	5
N-Nitrosodiphenylamine	ND		10000	2500	ug/Kg	☼	08/05/17 07:31	08/10/17 05:33	5
Pentachlorophenol	ND		25000	10000	ug/Kg	☼	08/05/17 07:31	08/10/17 05:33	5

Client Sample ID: LD97436

Date Collected: 08/01/17 11:04
Date Received: 08/03/17 18:30

Lab Sample ID: 440-189530-22

Matrix: Solid
Percent Solids: 65.5

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	ND		10000	2100	ug/Kg	☼	08/05/17 07:31	08/10/17 05:33	5
Phenol	ND		10000	2800	ug/Kg	☼	08/05/17 07:31	08/10/17 05:33	5
Pyrene	ND		10000	4100	ug/Kg	☼	08/05/17 07:31	08/10/17 05:33	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*67*		*10 - 147*	*08/05/17 07:31*	*08/10/17 05:33*	*5*
2-Fluorobiphenyl	*66*		*42 - 113*	*08/05/17 07:31*	*08/10/17 05:33*	*5*
2-Fluorophenol (Surr)	*76*		*18 - 138*	*08/05/17 07:31*	*08/10/17 05:33*	*5*
Nitrobenzene-d5 (Surr)	*70*		*39 - 104*	*08/05/17 07:31*	*08/10/17 05:33*	*5*
Phenol-d6 (Surr)	*74*		*37 - 125*	*08/05/17 07:31*	*08/10/17 05:33*	*5*
Terphenyl-d14 (Surr)	*90*		*43 - 125*	*08/05/17 07:31*	*08/10/17 05:33*	*5*

Client Sample ID: LD97437

Date Collected: 08/01/17 11:04
Date Received: 08/03/17 18:30

Lab Sample ID: 440-189530-23

Matrix: Solid
Percent Solids: 65.5

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		160	56	ug/Kg	☼	08/10/17 08:11	08/11/17 12:45	1
Aroclor 1221	ND		160	56	ug/Kg	☼	08/10/17 08:11	08/11/17 12:45	1
Aroclor 1232	ND		160	56	ug/Kg	☼	08/10/17 08:11	08/11/17 12:45	1
Aroclor 1242	ND		160	56	ug/Kg	☼	08/10/17 08:11	08/11/17 12:45	1
Aroclor 1248	ND		160	56	ug/Kg	☼	08/10/17 08:11	08/11/17 12:45	1
Aroclor 1254	ND		160	56	ug/Kg	☼	08/10/17 08:11	08/11/17 12:45	1
Aroclor 1260	ND		160	56	ug/Kg	☼	08/10/17 08:11	08/11/17 12:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*96*		*45 - 120*	*08/10/17 08:11*	*08/11/17 12:45*	*1*

Client Sample ID: LD97438

Date Collected: 08/01/17 11:04
Date Received: 08/03/17 18:30

Lab Sample ID: 440-189530-24

Matrix: Solid
Percent Solids: 65.5

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		15	4.6	ug/Kg	☼	08/07/17 13:41	08/09/17 23:39	1
4,4'-DDE	**70**	**F1 F2**	15	4.6	ug/Kg	☼	08/07/17 13:41	08/09/17 23:39	1
4,4'-DDT	**7.9**	**J p F1 F2**	15	4.6	ug/Kg	☼	08/07/17 13:41	08/09/17 23:39	1
Aldrin	ND	F1 F2	15	4.6	ug/Kg	☼	08/07/17 13:41	08/09/17 23:39	1
alpha-BHC	ND	F1 F2	15	4.6	ug/Kg	☼	08/07/17 13:41	08/09/17 23:39	1
beta-BHC	ND	F2	15	4.6	ug/Kg	☼	08/07/17 13:41	08/09/17 23:39	1
Chlordane (technical)	ND		150	31	ug/Kg	☼	08/07/17 13:41	08/09/17 23:39	1
delta-BHC	ND		31	4.6	ug/Kg	☼	08/07/17 13:41	08/09/17 23:39	1
Dieldrin	ND	F2	15	4.6	ug/Kg	☼	08/07/17 13:41	08/09/17 23:39	1
Endosulfan I	ND		15	4.6	ug/Kg	☼	08/07/17 13:41	08/09/17 23:39	1
Endosulfan II	ND		15	4.6	ug/Kg	☼	08/07/17 13:41	08/09/17 23:39	1
Endosulfan sulfate	ND	F1 F2	31	6.1	ug/Kg	☼	08/07/17 13:41	08/09/17 23:39	1
Endrin	ND		15	4.6	ug/Kg	☼	08/07/17 13:41	08/09/17 23:39	1
Endrin aldehyde	ND		15	4.6	ug/Kg	☼	08/07/17 13:41	08/09/17 23:39	1
Endrin ketone	ND	F1 F2	15	6.1	ug/Kg	☼	08/07/17 13:41	08/09/17 23:39	1

Client Sample ID: LD97438

Date Collected: 08/01/17 11:04
Date Received: 08/03/17 18:30

Lab Sample ID: 440-189530-24

Matrix: Solid
Percent Solids: 65.5

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
gamma-BHC (Lindane)	ND	F2	15	4.6	ug/Kg	☼	08/07/17 13:41	08/09/17 23:39	1
Heptachlor	ND	F2	15	6.1	ug/Kg	☼	08/07/17 13:41	08/09/17 23:39	1
Heptachlor epoxide	ND	F2	15	6.1	ug/Kg	☼	08/07/17 13:41	08/09/17 23:39	1
Methoxychlor	ND	F1 F2	15	4.6	ug/Kg	☼	08/07/17 13:41	08/09/17 23:39	1
Toxaphene	ND		610	150	ug/Kg	☼	08/07/17 13:41	08/09/17 23:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*61*		*35 - 115*	*08/07/17 13:41*	*08/09/17 23:39*	*1*
DCB Decachlorobiphenyl (Surr)	*43*	*X*	*45 - 120*	*08/07/17 13:41*	*08/09/17 23:39*	*1*

Client Sample ID: LD97439

Date Collected: 08/01/17 11:04
Date Received: 08/03/17 18:30

Lab Sample ID: 440-189530-25

Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Solids	**65**		0.050	0.050	%			08/07/17 18:17	1
Total Volatile Solids	**39**		0.050	0.050	%			08/07/17 18:17	1

Client Sample ID: LD97440

Date Collected: 08/01/17 11:04
Date Received: 08/03/17 18:30

Lab Sample ID: 440-189530-26

Matrix: Solid
Percent Solids: 65.5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		15	7.6	mg/Kg	☼	08/07/17 08:52	08/08/17 13:42	5
Arsenic	**7.0**		4.5	2.3	mg/Kg	☼	08/07/17 08:52	08/08/17 13:42	5
Barium	**450**		2.3	1.1	mg/Kg	☼	08/07/17 08:52	08/08/17 13:42	5
Beryllium	**0.91**		0.76	0.38	mg/Kg	☼	08/07/17 08:52	08/08/17 13:42	5
Cadmium	**1.0**		0.76	0.38	mg/Kg	☼	08/07/17 08:52	08/08/17 13:42	5
Chromium	**81**		1.5	0.76	mg/Kg	☼	08/07/17 08:52	08/08/17 13:42	5
Cobalt	**14**		1.5	0.76	mg/Kg	☼	08/07/17 08:52	08/08/17 13:42	5
Copper	**360**		3.0	1.7	mg/Kg	☼	08/07/17 08:52	08/08/17 13:42	5
Lead	**20**		3.0	1.5	mg/Kg	☼	08/07/17 08:52	08/08/17 13:42	5
Molybdenum	**8.2**		3.0	1.5	mg/Kg	☼	08/07/17 08:52	08/08/17 13:42	5
Nickel	**82**		3.0	1.5	mg/Kg	☼	08/07/17 08:52	08/08/17 13:42	5
Selenium	**3.4**	**J**	4.5	2.6	mg/Kg	☼	08/07/17 08:52	08/08/17 13:42	5
Silver	**4.4**		2.3	1.1	mg/Kg	☼	08/07/17 08:52	08/08/17 13:42	5
Thallium	ND		15	7.6	mg/Kg	☼	08/07/17 08:52	08/08/17 13:42	5
Vanadium	**61**		1.5	0.76	mg/Kg	☼	08/07/17 08:52	08/08/17 13:42	5
Zinc	**520**		7.6	3.8	mg/Kg	☼	08/07/17 08:52	08/08/17 13:42	5

Method: 6010B - Metals (ICP) - STLC Citrate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	**1.3**		0.10	0.040	mg/L			08/21/17 14:39	20
Copper	**0.083**	**J**	0.20	0.060	mg/L			08/21/17 14:39	20

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.38**		0.031	0.018	mg/Kg	☼	08/09/17 22:26	08/10/17 18:56	1

Client Sample ID: LD97441

Lab Sample ID: 440-189530-27
Date Collected: 08/01/17 11:04
Matrix: Solid
Date Received: 08/03/17 18:30
Percent Solids: 65.5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.79		0.76	0.65	mg/Kg	☼	08/07/17 16:53	08/08/17 12:25	1

Client Sample ID: LD97442

Lab Sample ID: 440-189530-28
Date Collected: 08/01/17 11:04
Matrix: Solid
Date Received: 08/03/17 18:30
Percent Solids: 65.5

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C22	840		75	38	mg/Kg	☼	08/08/17 11:21	08/09/17 05:34	5
C18-C40	2600	B	75	38	mg/Kg	☼	08/08/17 11:21	08/09/17 05:34	5
C10-C28	1900		75	38	mg/Kg	☼	08/08/17 11:21	08/09/17 05:34	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*88*		*20 - 120*	*08/08/17 11:21*	*08/09/17 05:34*	*5*

Client Sample ID: LD97443

Lab Sample ID: 440-189530-29
Date Collected: 08/01/17 11:04
Matrix: Solid
Date Received: 08/03/17 18:30

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Free Liquid	ND		0.10	0.10	mL/100g			08/11/17 09:02	1

Note: ¤ is listed under the "D" column to designate that the result is reported on a dry weight basis

Method Summary

Client: City of San Jose Water Pollution Control
Project/Site: Plant Operations

TestAmerica Job ID: 440-189530-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL IRV
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL IRV
8081A	Organochlorine Pesticides (GC)	SW846	TAL IRV
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL IRV
6010B	Metals (ICP)	SW846	TAL IRV
7471A	Mercury (CVAA)	SW846	TAL IRV
9014	Cyanide	SW846	TAL IRV
9095B	Paint Filter	SW846	TAL IRV
Moisture	Percent Moisture	EPA	TAL IRV
SM 2540G	Total, Fixed, and Volatile Solids	SM	TAL IRV

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Lab Chronicle

Client: City of San Jose Water Pollution Control
Project/Site: Plant Operations

TestAmerica Job ID: 440-189530-1

Client Sample ID: LD97435
Date Collected: 08/01/17 11:04
Date Received: 08/03/17 18:30

Lab Sample ID: 440-189530-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			421815	08/07/17 18:10	EC1	TAL IRV

Client Sample ID: LD97435
Date Collected: 08/01/17 11:04
Date Received: 08/03/17 18:30

Lab Sample ID: 440-189530-21
Matrix: Solid
Percent Solids: 65.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	1.08 g	10 mL	421853	08/08/17 16:15	AYL	TAL IRV

Client Sample ID: LD97436
Date Collected: 08/01/17 11:04
Date Received: 08/03/17 18:30

Lab Sample ID: 440-189530-22
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			421815	08/07/17 18:10	EC1	TAL IRV

Client Sample ID: LD97436
Date Collected: 08/01/17 11:04
Date Received: 08/03/17 18:30

Lab Sample ID: 440-189530-22
Matrix: Solid
Percent Solids: 65.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			7.46 g	2 mL	421499	08/05/17 07:31	VA	TAL IRV
Total/NA	Analysis	8270C		5	1 mL	1.0 mL	422335	08/10/17 05:33	DF	TAL IRV

Client Sample ID: LD97437
Date Collected: 08/01/17 11:04
Date Received: 08/03/17 18:30

Lab Sample ID: 440-189530-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			421815	08/07/17 18:10	EC1	TAL IRV

Client Sample ID: LD97437
Date Collected: 08/01/17 11:04
Date Received: 08/03/17 18:30

Lab Sample ID: 440-189530-23
Matrix: Solid
Percent Solids: 65.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			7.00 g	2 mL	422402	08/10/17 08:11	VA	TAL IRV
Total/NA	Analysis	8082		1			422684	08/11/17 12:45	JM	TAL IRV

Lab Chronicle

Client: City of San Jose Water Pollution Control
Project/Site: Plant Operations

TestAmerica Job ID: 440-189530-1

Client Sample ID: LD97438
Date Collected: 08/01/17 11:04
Date Received: 08/03/17 18:30

Lab Sample ID: 440-189530-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			421815	08/07/17 18:10	EC1	TAL IRV

Client Sample ID: LD97438
Date Collected: 08/01/17 11:04
Date Received: 08/03/17 18:30

Lab Sample ID: 440-189530-24
Matrix: Solid
Percent Solids: 65.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			7.51 g	2 mL	421742	08/07/17 13:41	SMF	TAL IRV
Total/NA	Analysis	8081A		1			422186	08/09/17 23:39	KS	TAL IRV

Client Sample ID: LD97439
Date Collected: 08/01/17 11:04
Date Received: 08/03/17 18:30

Lab Sample ID: 440-189530-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			421815	08/07/17 18:10	EC1	TAL IRV
Total/NA	Analysis	SM 2540G		1			421817	08/07/17 18:17	EC1	TAL IRV

Client Sample ID: LD97440
Date Collected: 08/01/17 11:04
Date Received: 08/03/17 18:30

Lab Sample ID: 440-189530-26
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			50.05 g	500 mL	424322	08/19/17 00:17	CDH	TAL IRV
STLC Citrate	Analysis	6010B		20			424541	08/21/17 14:39	B1H	TAL IRV
Total/NA	Analysis	Moisture		1			421815	08/07/17 18:10	EC1	TAL IRV

Client Sample ID: LD97440
Date Collected: 08/01/17 11:04
Date Received: 08/03/17 18:30

Lab Sample ID: 440-189530-26
Matrix: Solid
Percent Solids: 65.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.022 g	50 mL	421627	08/07/17 08:52	DT	TAL IRV
Total/NA	Analysis	6010B		5			421990	08/08/17 13:42	B1H	TAL IRV
Total/NA	Prep	7471A			0.50 g	50 mL	422340	08/09/17 22:26	DB	TAL IRV
Total/NA	Analysis	7471A		1			422610	08/10/17 18:56	DB	TAL IRV

Lab Chronicle

Client: City of San Jose Water Pollution Control
Project/Site: Plant Operations

TestAmerica Job ID: 440-189530-1

Client Sample ID: LD97441
Date Collected: 08/01/17 11:04
Date Received: 08/03/17 18:30

Lab Sample ID: 440-189530-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			421815	08/07/17 18:10	EC1	TAL IRV

Client Sample ID: LD97441
Date Collected: 08/01/17 11:04
Date Received: 08/03/17 18:30

Lab Sample ID: 440-189530-27
Matrix: Solid
Percent Solids: 65.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	9010B			2.0143 g	50 mL	421803	08/07/17 16:53	EC1	TAL IRV
Total/NA	Analysis	9014		1			421954	08/08/17 12:25	EC1	TAL IRV

Client Sample ID: LD97442
Date Collected: 08/01/17 11:04
Date Received: 08/03/17 18:30

Lab Sample ID: 440-189530-28
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			421815	08/07/17 18:11	EC1	TAL IRV

Client Sample ID: LD97442
Date Collected: 08/01/17 11:04
Date Received: 08/03/17 18:30

Lab Sample ID: 440-189530-28
Matrix: Solid
Percent Solids: 65.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3546			7.60 g	1 mL	421930	08/08/17 11:21	SMF	TAL IRV
Silica Gel Cleanup	Analysis	8015B		5			422061	08/09/17 05:34	LMB	TAL IRV

Client Sample ID: LD97443
Date Collected: 08/01/17 11:04
Date Received: 08/03/17 18:30

Lab Sample ID: 440-189530-29
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9095B		1			422691	08/11/17 09:02	CTH	TAL IRV
Total/NA	Analysis	Moisture		1			421815	08/07/17 18:11	EC1	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-421853/4
Matrix: Solid
Analysis Batch: 421853

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	1.0	ug/Kg			08/08/17 08:05	1
1,1,1-Trichloroethane	ND		2.0	1.0	ug/Kg			08/08/17 08:05	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			08/08/17 08:05	1
1,1,2-Trichloroethane	ND		2.0	1.0	ug/Kg			08/08/17 08:05	1
1,1-Dichloroethane	ND		2.0	1.0	ug/Kg			08/08/17 08:05	1
1,1-Dichloroethene	ND		5.0	1.0	ug/Kg			08/08/17 08:05	1
1,1-Dichloropropene	ND		2.0	1.0	ug/Kg			08/08/17 08:05	1
1,2,3-Trichlorobenzene	ND		5.0	1.0	ug/Kg			08/08/17 08:05	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			08/08/17 08:05	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			08/08/17 08:05	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			08/08/17 08:05	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			08/08/17 08:05	1
1,2-Dibromoethane (EDB)	ND		2.0	1.0	ug/Kg			08/08/17 08:05	1
1,2-Dichlorobenzene	ND		2.0	1.0	ug/Kg			08/08/17 08:05	1
1,2-Dichloroethane	ND		2.0	1.0	ug/Kg			08/08/17 08:05	1
1,2-Dichloropropane	ND		2.0	1.0	ug/Kg			08/08/17 08:05	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			08/08/17 08:05	1
1,3-Dichlorobenzene	ND		2.0	1.0	ug/Kg			08/08/17 08:05	1
1,3-Dichloropropane	ND		2.0	1.0	ug/Kg			08/08/17 08:05	1
1,4-Dichlorobenzene	ND		2.0	1.0	ug/Kg			08/08/17 08:05	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			08/08/17 08:05	1
2-Chloroethyl vinyl ether	ND		5.0	2.5	ug/Kg			08/08/17 08:05	1
2-Chlorotoluene	ND		5.0	1.0	ug/Kg			08/08/17 08:05	1
4-Chlorotoluene	ND		5.0	1.0	ug/Kg			08/08/17 08:05	1
Acrolein	ND		100	10	ug/Kg			08/08/17 08:05	1
Acrylonitrile	ND		100	20	ug/Kg			08/08/17 08:05	1
Benzene	ND		2.0	1.0	ug/Kg			08/08/17 08:05	1
Bromobenzene	ND		5.0	1.0	ug/Kg			08/08/17 08:05	1
Bromochloromethane	ND		5.0	1.0	ug/Kg			08/08/17 08:05	1
Bromodichloromethane	ND		2.0	1.0	ug/Kg			08/08/17 08:05	1
Bromoform	ND		5.0	2.0	ug/Kg			08/08/17 08:05	1
Bromomethane	ND		5.0	1.0	ug/Kg			08/08/17 08:05	1
Carbon tetrachloride	ND		5.0	1.0	ug/Kg			08/08/17 08:05	1
Chlorobenzene	ND		2.0	1.0	ug/Kg			08/08/17 08:05	1
Chloroethane	ND		5.0	2.0	ug/Kg			08/08/17 08:05	1
Chloroform	ND		2.0	1.0	ug/Kg			08/08/17 08:05	1
Chloromethane	ND		5.0	1.0	ug/Kg			08/08/17 08:05	1
cis-1,2-Dichloroethene	ND		2.0	1.0	ug/Kg			08/08/17 08:05	1
cis-1,3-Dichloropropene	ND		2.0	1.0	ug/Kg			08/08/17 08:05	1
Dibromochloromethane	ND		2.0	1.0	ug/Kg			08/08/17 08:05	1
Dibromomethane	ND		2.0	1.0	ug/Kg			08/08/17 08:05	1
Dichlorodifluoromethane	ND		5.0	2.0	ug/Kg			08/08/17 08:05	1
Ethanol	ND		300	100	ug/Kg			08/08/17 08:05	1
Ethylbenzene	ND		2.0	1.0	ug/Kg			08/08/17 08:05	1
Ethyl-t-butyl ether (ETBE)	ND		5.0	1.0	ug/Kg			08/08/17 08:05	1
Hexachlorobutadiene	ND		5.0	1.0	ug/Kg			08/08/17 08:05	1
Isopropyl Ether (DIPE)	ND		5.0	1.0	ug/Kg			08/08/17 08:05	1
Isopropylbenzene	ND		2.0	1.0	ug/Kg			08/08/17 08:05	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-421853/4
Matrix: Solid
Analysis Batch: 421853

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylene	ND		4.0	2.0	ug/Kg			08/08/17 08:05	1
Methylene Chloride	ND		20	5.0	ug/Kg			08/08/17 08:05	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0	1.0	ug/Kg			08/08/17 08:05	1
Naphthalene	ND		5.0	2.0	ug/Kg			08/08/17 08:05	1
n-Butylbenzene	ND		5.0	1.0	ug/Kg			08/08/17 08:05	1
N-Propylbenzene	ND		2.0	1.0	ug/Kg			08/08/17 08:05	1
o-Xylene	ND		2.0	1.0	ug/Kg			08/08/17 08:05	1
p-Isopropyltoluene	ND		2.0	1.0	ug/Kg			08/08/17 08:05	1
sec-Butylbenzene	ND		5.0	1.0	ug/Kg			08/08/17 08:05	1
Styrene	ND		2.0	1.0	ug/Kg			08/08/17 08:05	1
Tert-amyl-methyl ether (TAME)	ND		5.0	1.0	ug/Kg			08/08/17 08:05	1
tert-Butyl alcohol (TBA)	ND		100	10	ug/Kg			08/08/17 08:05	1
tert-Butylbenzene	ND		5.0	1.0	ug/Kg			08/08/17 08:05	1
Tetrachloroethene	ND		2.0	1.0	ug/Kg			08/08/17 08:05	1
Toluene	ND		2.0	1.0	ug/Kg			08/08/17 08:05	1
trans-1,2-Dichloroethene	ND		2.0	1.0	ug/Kg			08/08/17 08:05	1
trans-1,3-Dichloropropene	ND		2.0	1.0	ug/Kg			08/08/17 08:05	1
Trichloroethene	ND		2.0	1.0	ug/Kg			08/08/17 08:05	1
Trichlorofluoromethane	ND		5.0	1.0	ug/Kg			08/08/17 08:05	1
Vinyl chloride	ND		5.0	1.0	ug/Kg			08/08/17 08:05	1
Xylenes, Total	ND		4.0	2.0	ug/Kg			08/08/17 08:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*79 - 120*		*08/08/17 08:05*	*1*
Dibromofluoromethane (Surr)	*94*		*60 - 120*		*08/08/17 08:05*	*1*
Toluene-d8 (Surr)	*90*		*79 - 123*		*08/08/17 08:05*	*1*

Lab Sample ID: LCS 440-421853/5
Matrix: Solid
Analysis Batch: 421853

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	56.0		ug/Kg		112	70 - 130
1,1,1-Trichloroethane	50.0	47.7		ug/Kg		95	65 - 135
1,1,2,2-Tetrachloroethane	50.0	53.0		ug/Kg		106	55 - 140
1,1,2-Trichloroethane	50.0	52.3		ug/Kg		105	65 - 135
1,1-Dichloroethane	50.0	52.4		ug/Kg		105	70 - 130
1,1-Dichloroethene	50.0	48.4		ug/Kg		97	70 - 125
1,1-Dichloropropene	50.0	50.9		ug/Kg		102	70 - 130
1,2,3-Trichlorobenzene	50.0	59.4		ug/Kg		119	60 - 130
1,2,3-Trichloropropane	50.0	50.3		ug/Kg		101	60 - 135
1,2,4-Trichlorobenzene	50.0	56.7		ug/Kg		113	70 - 135
1,2,4-Trimethylbenzene	50.0	52.6		ug/Kg		105	70 - 125
1,2-Dibromo-3-Chloropropane	50.0	44.8		ug/Kg		90	50 - 135
1,2-Dibromoethane (EDB)	50.0	51.6		ug/Kg		103	70 - 130
1,2-Dichlorobenzene	50.0	55.2		ug/Kg		110	75 - 120
1,2-Dichloroethane	50.0	46.6		ug/Kg		93	60 - 140
1,2-Dichloropropane	50.0	57.2		ug/Kg		114	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-421853/5
Matrix: Solid
Analysis Batch: 421853

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3,5-Trimethylbenzene	50.0	54.1		ug/Kg		108	70 - 125
1,3-Dichlorobenzene	50.0	49.3		ug/Kg		99	75 - 125
1,3-Dichloropropane	50.0	48.3		ug/Kg		97	70 - 125
1,4-Dichlorobenzene	50.0	54.1		ug/Kg		108	75 - 120
2,2-Dichloropropane	50.0	48.7		ug/Kg		97	60 - 145
2-Chloroethyl vinyl ether	50.0	43.2		ug/Kg		86	25 - 170
2-Chlorotoluene	50.0	52.9		ug/Kg		106	70 - 125
4-Chlorotoluene	50.0	51.8		ug/Kg		104	75 - 125
Benzene	50.0	53.2		ug/Kg		106	65 - 120
Bromobenzene	50.0	56.6		ug/Kg		113	75 - 120
Bromochloromethane	50.0	53.9		ug/Kg		108	70 - 135
Bromodichloromethane	50.0	52.5		ug/Kg		105	70 - 135
Bromoform	50.0	49.6		ug/Kg		99	55 - 135
Bromomethane	50.0	41.7		ug/Kg		83	60 - 145
Carbon tetrachloride	50.0	49.7		ug/Kg		99	65 - 140
Chlorobenzene	50.0	50.1		ug/Kg		100	75 - 120
Chloroethane	50.0	45.0		ug/Kg		90	60 - 140
Chloroform	50.0	49.9		ug/Kg		100	70 - 130
Chloromethane	50.0	44.3		ug/Kg		89	45 - 145
cis-1,2-Dichloroethene	50.0	54.2		ug/Kg		108	70 - 125
cis-1,3-Dichloropropene	50.0	51.6		ug/Kg		103	75 - 125
Dibromochloromethane	50.0	54.2		ug/Kg		108	65 - 140
Dibromomethane	50.0	49.4		ug/Kg		99	70 - 130
Dichlorodifluoromethane	50.0	40.4		ug/Kg		81	35 - 160
Ethanol	2000	2300		ug/Kg		115	35 - 160
Ethylbenzene	50.0	48.1		ug/Kg		96	70 - 125
Ethyl-t-butyl ether (ETBE)	50.0	56.9		ug/Kg		114	60 - 140
Hexachlorobutadiene	50.0	51.9		ug/Kg		104	60 - 135
Isopropyl Ether (DIPE)	50.0	58.0		ug/Kg		116	60 - 140
Isopropylbenzene	50.0	49.6		ug/Kg		99	75 - 130
m,p-Xylene	50.0	50.1		ug/Kg		100	70 - 125
Methylene Chloride	50.0	46.3		ug/Kg		93	55 - 135
Methyl-t-Butyl Ether (MTBE)	50.0	51.4		ug/Kg		103	60 - 140
Naphthalene	50.0	53.5		ug/Kg		107	55 - 135
n-Butylbenzene	50.0	51.2		ug/Kg		102	70 - 130
N-Propylbenzene	50.0	51.2		ug/Kg		102	70 - 130
o-Xylene	50.0	50.8		ug/Kg		102	70 - 125
p-Isopropyltoluene	50.0	53.5		ug/Kg		107	75 - 125
sec-Butylbenzene	50.0	52.2		ug/Kg		104	70 - 125
Styrene	50.0	51.9		ug/Kg		104	75 - 130
Tert-amyl-methyl ether (TAME)	50.0	52.6		ug/Kg		105	60 - 145
tert-Butyl alcohol (TBA)	500	589		ug/Kg		118	70 - 135
tert-Butylbenzene	50.0	53.8		ug/Kg		108	70 - 125
Tetrachloroethene	50.0	48.7		ug/Kg		97	70 - 125
Toluene	50.0	49.8		ug/Kg		100	70 - 125
trans-1,2-Dichloroethene	50.0	53.6		ug/Kg		107	70 - 125
trans-1,3-Dichloropropene	50.0	50.1		ug/Kg		100	70 - 135
Trichloroethene	50.0	51.4		ug/Kg		103	70 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-421853/5
Matrix: Solid
Analysis Batch: 421853

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	50.0	44.9		ug/Kg		90	60 - 145
Vinyl chloride	50.0	42.5		ug/Kg		85	55 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*79 - 120*
Dibromofluoromethane (Surr)	*91*		*60 - 120*
Toluene-d8 (Surr)	*86*		*79 - 123*

Lab Sample ID: 440-189622-A-1 MS
Matrix: Solid
Analysis Batch: 421853

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		49.9	57.4		ug/Kg		115	65 - 145
1,1,1-Trichloroethane	ND		49.9	51.4		ug/Kg		103	65 - 145
1,1,2,2-Tetrachloroethane	ND		49.9	51.3		ug/Kg		103	40 - 160
1,1,2-Trichloroethane	ND		49.9	54.6		ug/Kg		109	65 - 140
1,1-Dichloroethane	ND		49.9	55.1		ug/Kg		110	65 - 135
1,1-Dichloroethene	ND		49.9	52.8		ug/Kg		106	65 - 135
1,1-Dichloropropene	ND		49.9	54.5		ug/Kg		109	65 - 135
1,2,3-Trichlorobenzene	ND		49.9	55.9		ug/Kg		112	45 - 145
1,2,3-Trichloropropane	ND		49.9	53.9		ug/Kg		108	50 - 150
1,2,4-Trichlorobenzene	ND		49.9	52.7		ug/Kg		106	50 - 140
1,2,4-Trimethylbenzene	ND		49.9	51.8		ug/Kg		104	65 - 140
1,2-Dibromo-3-Chloropropane	ND		49.9	45.3		ug/Kg		91	40 - 150
1,2-Dibromoethane (EDB)	ND		49.9	53.9		ug/Kg		108	65 - 140
1,2-Dichlorobenzene	ND		49.9	53.7		ug/Kg		108	70 - 130
1,2-Dichloroethane	ND		49.9	50.4		ug/Kg		101	60 - 150
1,2-Dichloropropane	ND		49.9	58.5		ug/Kg		117	65 - 130
1,3,5-Trimethylbenzene	ND		49.9	51.7		ug/Kg		104	65 - 135
1,3-Dichlorobenzene	ND		49.9	52.3		ug/Kg		105	70 - 130
1,3-Dichloropropane	ND		49.9	50.3		ug/Kg		101	65 - 140
1,4-Dichlorobenzene	ND		49.9	52.6		ug/Kg		105	70 - 130
2,2-Dichloropropane	ND		49.9	51.8		ug/Kg		104	65 - 150
2-Chloroethyl vinyl ether	ND		49.9	45.3		ug/Kg		91	25 - 170
2-Chlorotoluene	ND		49.9	50.9		ug/Kg		102	60 - 135
4-Chlorotoluene	ND		49.9	51.0		ug/Kg		102	65 - 135
Benzene	ND		49.9	56.5		ug/Kg		113	65 - 130
Bromobenzene	ND		49.9	54.6		ug/Kg		109	65 - 140
Bromochloromethane	ND		49.9	57.9		ug/Kg		116	65 - 145
Bromodichloromethane	ND		49.9	56.8		ug/Kg		114	65 - 145
Bromoform	ND		49.9	52.2		ug/Kg		105	50 - 145
Bromomethane	ND		49.9	44.3		ug/Kg		89	60 - 155
Carbon tetrachloride	ND		49.9	51.6		ug/Kg		103	60 - 145
Chlorobenzene	ND		49.9	51.1		ug/Kg		102	70 - 130
Chloroethane	ND		49.9	47.3		ug/Kg		95	60 - 150
Chloroform	ND		49.9	51.8		ug/Kg		104	65 - 135
Chloromethane	ND		49.9	48.2		ug/Kg		97	40 - 145

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-189622-A-1 MS
Matrix: Solid
Analysis Batch: 421853

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,2-Dichloroethene	ND		49.9	58.5		ug/Kg		117	65 - 135
cis-1,3-Dichloropropene	ND		49.9	53.7		ug/Kg		108	70 - 135
Dibromochloromethane	ND		49.9	56.6		ug/Kg		113	60 - 145
Dibromomethane	ND		49.9	53.0		ug/Kg		106	65 - 140
Dichlorodifluoromethane	ND		49.9	43.4		ug/Kg		87	30 - 160
Ethanol	ND		2000	2290		ug/Kg		115	30 - 165
Ethylbenzene	ND		49.9	49.5		ug/Kg		99	70 - 135
Ethyl-t-butyl ether (ETBE)	ND		49.9	60.0		ug/Kg		120	60 - 145
Hexachlorobutadiene	ND		49.9	47.7		ug/Kg		96	50 - 145
Isopropyl Ether (DIPE)	ND		49.9	62.5		ug/Kg		125	60 - 150
Isopropylbenzene	ND		49.9	50.7		ug/Kg		102	70 - 145
m,p-Xylene	ND		49.9	51.3		ug/Kg		103	70 - 130
Methylene Chloride	ND		49.9	48.6		ug/Kg		97	55 - 145
Methyl-t-Butyl Ether (MTBE)	ND		49.9	54.8		ug/Kg		110	55 - 155
Naphthalene	ND		49.9	51.9		ug/Kg		104	40 - 150
n-Butylbenzene	ND		49.9	48.4		ug/Kg		97	55 - 145
N-Propylbenzene	ND		49.9	49.3		ug/Kg		99	65 - 140
o-Xylene	ND		49.9	53.2		ug/Kg		107	65 - 130
p-Isopropyltoluene	ND		49.9	53.0		ug/Kg		106	60 - 140
sec-Butylbenzene	ND		49.9	49.7		ug/Kg		100	60 - 135
Styrene	ND		49.9	52.8		ug/Kg		106	70 - 140
Tert-amyl-methyl ether (TAME)	ND		49.9	55.1		ug/Kg		110	60 - 150
tert-Butyl alcohol (TBA)	ND		499	575		ug/Kg		115	65 - 145
tert-Butylbenzene	ND		49.9	50.6		ug/Kg		101	60 - 140
Tetrachloroethene	ND		49.9	49.4		ug/Kg		99	65 - 135
Toluene	ND		49.9	50.8		ug/Kg		102	70 - 130
trans-1,2-Dichloroethene	ND		49.9	57.2		ug/Kg		115	70 - 135
trans-1,3-Dichloropropene	ND		49.9	52.4		ug/Kg		105	60 - 145
Trichloroethene	ND		49.9	55.6		ug/Kg		111	65 - 140
Trichlorofluoromethane	ND		49.9	48.5		ug/Kg		97	55 - 155
Vinyl chloride	ND		49.9	45.7		ug/Kg		92	55 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*79 - 120*
Dibromofluoromethane (Surr)	*103*		*60 - 120*
Toluene-d8 (Surr)	*96*		*79 - 123*

Lab Sample ID: 440-189622-A-1 MSD
Matrix: Solid
Analysis Batch: 421853

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		49.9	57.5		ug/Kg		115	65 - 145	0	20
1,1,1-Trichloroethane	ND		49.9	54.2		ug/Kg		109	65 - 145	5	20
1,1,2,2-Tetrachloroethane	ND		49.9	52.3		ug/Kg		105	40 - 160	2	30
1,1,2-Trichloroethane	ND		49.9	51.0		ug/Kg		102	65 - 140	7	30
1,1-Dichloroethane	ND		49.9	56.2		ug/Kg		113	65 - 135	2	25
1,1-Dichloroethene	ND		49.9	49.6		ug/Kg		99	65 - 135	6	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-189622-A-1 MSD
Matrix: Solid
Analysis Batch: 421853

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloropropene	ND		49.9	54.9		ug/Kg		110	65 - 135	1	20
1,2,3-Trichlorobenzene	ND		49.9	56.9		ug/Kg		114	45 - 145	2	30
1,2,3-Trichloropropane	ND		49.9	52.7		ug/Kg		106	50 - 150	2	30
1,2,4-Trichlorobenzene	ND		49.9	53.2		ug/Kg		107	50 - 140	1	30
1,2,4-Trimethylbenzene	ND		49.9	50.8		ug/Kg		102	65 - 140	2	25
1,2-Dibromo-3-Chloropropane	ND		49.9	47.4		ug/Kg		95	40 - 150	4	30
1,2-Dibromoethane (EDB)	ND		49.9	54.5		ug/Kg		109	65 - 140	1	25
1,2-Dichlorobenzene	ND		49.9	52.8		ug/Kg		106	70 - 130	2	25
1,2-Dichloroethane	ND		49.9	55.7		ug/Kg		112	60 - 150	10	25
1,2-Dichloropropane	ND		49.9	60.4		ug/Kg		121	65 - 130	3	20
1,3,5-Trimethylbenzene	ND		49.9	51.1		ug/Kg		102	65 - 135	1	25
1,3-Dichlorobenzene	ND		49.9	50.7		ug/Kg		102	70 - 130	3	25
1,3-Dichloropropane	ND		49.9	48.7		ug/Kg		98	65 - 140	3	25
1,4-Dichlorobenzene	ND		49.9	52.2		ug/Kg		105	70 - 130	1	25
2,2-Dichloropropane	ND		49.9	53.7		ug/Kg		108	65 - 150	4	25
2-Chloroethyl vinyl ether	ND		49.9	42.3		ug/Kg		85	25 - 170	7	30
2-Chlorotoluene	ND		49.9	51.3		ug/Kg		103	60 - 135	1	25
4-Chlorotoluene	ND		49.9	49.8		ug/Kg		100	65 - 135	2	25
Benzene	ND		49.9	55.7		ug/Kg		112	65 - 130	1	20
Bromobenzene	ND		49.9	53.5		ug/Kg		107	65 - 140	2	25
Bromochloromethane	ND		49.9	54.4		ug/Kg		109	65 - 145	6	25
Bromodichloromethane	ND		49.9	58.5		ug/Kg		117	65 - 145	3	20
Bromoform	ND		49.9	52.8		ug/Kg		106	50 - 145	1	30
Bromomethane	ND		49.9	47.5		ug/Kg		95	60 - 155	7	25
Carbon tetrachloride	ND		49.9	55.4		ug/Kg		111	60 - 145	7	25
Chlorobenzene	ND		49.9	51.5		ug/Kg		103	70 - 130	1	25
Chloroethane	ND		49.9	49.7		ug/Kg		100	60 - 150	5	25
Chloroform	ND		49.9	53.5		ug/Kg		107	65 - 135	3	20
Chloromethane	ND		49.9	52.4		ug/Kg		105	40 - 145	8	25
cis-1,2-Dichloroethene	ND		49.9	54.6		ug/Kg		109	65 - 135	7	25
cis-1,3-Dichloropropene	ND		49.9	49.2		ug/Kg		99	70 - 135	9	25
Dibromochloromethane	ND		49.9	56.4		ug/Kg		113	60 - 145	0	25
Dibromomethane	ND		49.9	55.8		ug/Kg		112	65 - 140	5	25
Dichlorodifluoromethane	ND		49.9	45.2		ug/Kg		91	30 - 160	4	35
Ethanol	ND		2000	2080		ug/Kg		104	30 - 165	10	40
Ethylbenzene	ND		49.9	49.1		ug/Kg		98	70 - 135	1	25
Ethyl-t-butyl ether (ETBE)	ND		49.9	63.1		ug/Kg		126	60 - 145	5	30
Hexachlorobutadiene	ND		49.9	47.3		ug/Kg		95	50 - 145	1	35
Isopropyl Ether (DIPE)	ND		49.9	66.5		ug/Kg		133	60 - 150	6	25
Isopropylbenzene	ND		49.9	49.6		ug/Kg		99	70 - 145	2	25
m,p-Xylene	ND		49.9	51.0		ug/Kg		102	70 - 130	1	25
Methylene Chloride	ND		49.9	48.0		ug/Kg		96	55 - 145	1	25
Methyl-t-Butyl Ether (MTBE)	ND		49.9	57.1		ug/Kg		114	55 - 155	4	35
Naphthalene	ND		49.9	54.4		ug/Kg		109	40 - 150	5	40
n-Butylbenzene	ND		49.9	47.7		ug/Kg		96	55 - 145	2	30
N-Propylbenzene	ND		49.9	48.9		ug/Kg		98	65 - 140	1	25
o-Xylene	ND		49.9	52.4		ug/Kg		105	65 - 130	1	25
p-Isopropyltoluene	ND		49.9	52.0		ug/Kg		104	60 - 140	2	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-189622-A-1 MSD
Matrix: Solid
Analysis Batch: 421853

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
sec-Butylbenzene	ND		49.9	49.4		ug/Kg		99	60 - 135	1	25
Styrene	ND		49.9	52.8		ug/Kg		106	70 - 140	0	25
Tert-amyl-methyl ether (TAME)	ND		49.9	57.3		ug/Kg		115	60 - 150	4	25
tert-Butyl alcohol (TBA)	ND		499	577		ug/Kg		116	65 - 145	0	30
tert-Butylbenzene	ND		49.9	51.2		ug/Kg		103	60 - 140	1	25
Tetrachloroethene	ND		49.9	50.5		ug/Kg		101	65 - 135	2	25
Toluene	ND		49.9	47.0		ug/Kg		94	70 - 130	8	20
trans-1,2-Dichloroethene	ND		49.9	54.3		ug/Kg		109	70 - 135	5	25
trans-1,3-Dichloropropene	ND		49.9	49.5		ug/Kg		99	60 - 145	6	25
Trichloroethene	ND		49.9	53.7		ug/Kg		108	65 - 140	4	25
Trichlorofluoromethane	ND		49.9	49.4		ug/Kg		99	55 - 155	2	25
Vinyl chloride	ND		49.9	50.1		ug/Kg		100	55 - 140	9	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*79 - 120*
Dibromofluoromethane (Surr)	*105*		*60 - 120*
Toluene-d8 (Surr)	*90*		*79 - 123*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 440-421930/1-A
Matrix: Solid
Analysis Batch: 422061

Client Sample ID: Method Blank
Prep Type: Silica Gel Cleanup
Prep Batch: 421930

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C22	ND		5.0	2.5	mg/Kg		08/08/17 11:21	08/09/17 04:30	1
C18-C40	4.20	J	5.0	2.5	mg/Kg		08/08/17 11:21	08/09/17 04:30	1
C10-C28	ND		5.0	2.5	mg/Kg		08/08/17 11:21	08/09/17 04:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*68*		*20 - 120*	*08/08/17 11:21*	*08/09/17 04:30*	*1*

Lab Sample ID: LCS 440-421930/2-A
Matrix: Solid
Analysis Batch: 422061

Client Sample ID: Lab Control Sample
Prep Type: Silica Gel Cleanup
Prep Batch: 421930

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
C10-C28			66.4	37.3		mg/Kg		56	20 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane	*62*		*20 - 120*

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 440-189530-28 MS
Matrix: Solid
Analysis Batch: 422061

Client Sample ID: LD97442
Prep Type: Silica Gel Cleanup
Prep Batch: 421930

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
C10-C28	1900		201	1800	4	mg/Kg	☼	-31	20 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
n-Octacosane	*80*		*20 - 120*

Lab Sample ID: 440-189530-28 MSD
Matrix: Solid
Analysis Batch: 422061

Client Sample ID: LD97442
Prep Type: Silica Gel Cleanup
Prep Batch: 421930

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C10-C28	1900		201	1850	4	mg/Kg	☼	-6	20 - 120	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
n-Octacosane	*108*		*20 - 120*

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 440-421742/1-A
Matrix: Solid
Analysis Batch: 422186

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 421742

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	1.5	ug/Kg		08/07/17 13:41	08/09/17 20:11	1
4,4'-DDE	ND		5.0	1.5	ug/Kg		08/07/17 13:41	08/09/17 20:11	1
4,4'-DDT	ND		5.0	1.5	ug/Kg		08/07/17 13:41	08/09/17 20:11	1
Aldrin	ND		5.0	1.5	ug/Kg		08/07/17 13:41	08/09/17 20:11	1
alpha-BHC	ND		5.0	1.5	ug/Kg		08/07/17 13:41	08/09/17 20:11	1
beta-BHC	ND		5.0	1.5	ug/Kg		08/07/17 13:41	08/09/17 20:11	1
Chlordane (technical)	ND		50	9.9	ug/Kg		08/07/17 13:41	08/09/17 20:11	1
delta-BHC	ND		9.9	1.5	ug/Kg		08/07/17 13:41	08/09/17 20:11	1
Dieldrin	ND		5.0	1.5	ug/Kg		08/07/17 13:41	08/09/17 20:11	1
Endosulfan I	ND		5.0	1.5	ug/Kg		08/07/17 13:41	08/09/17 20:11	1
Endosulfan II	ND		5.0	1.5	ug/Kg		08/07/17 13:41	08/09/17 20:11	1
Endosulfan sulfate	ND		9.9	2.0	ug/Kg		08/07/17 13:41	08/09/17 20:11	1
Endrin	ND		5.0	1.5	ug/Kg		08/07/17 13:41	08/09/17 20:11	1
Endrin aldehyde	ND		5.0	1.5	ug/Kg		08/07/17 13:41	08/09/17 20:11	1
Endrin ketone	ND		5.0	2.0	ug/Kg		08/07/17 13:41	08/09/17 20:11	1
gamma-BHC (Lindane)	ND		5.0	1.5	ug/Kg		08/07/17 13:41	08/09/17 20:11	1
Heptachlor	ND		5.0	2.0	ug/Kg		08/07/17 13:41	08/09/17 20:11	1
Heptachlor epoxide	ND		5.0	2.0	ug/Kg		08/07/17 13:41	08/09/17 20:11	1
Methoxychlor	ND		5.0	1.5	ug/Kg		08/07/17 13:41	08/09/17 20:11	1
Toxaphene	ND		200	50	ug/Kg		08/07/17 13:41	08/09/17 20:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*79*		*35 - 115*	*08/07/17 13:41*	*08/09/17 20:11*	*1*
DCB Decachlorobiphenyl (Surr)	*80*		*45 - 120*	*08/07/17 13:41*	*08/09/17 20:11*	*1*

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 440-421742/2-A
Matrix: Solid
Analysis Batch: 422186

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 421742

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	13.3	13.9		ug/Kg		105	59 - 118
4,4'-DDE	13.3	11.7		ug/Kg		88	55 - 115
4,4'-DDT	13.3	9.99		ug/Kg		75	51 - 131
Aldrin	13.3	11.0		ug/Kg		82	46 - 115
alpha-BHC	13.3	10.2		ug/Kg		77	38 - 115
beta-BHC	13.3	10.3		ug/Kg		77	46 - 115
delta-BHC	13.3	10.8		ug/Kg		82	52 - 115
Dieldrin	13.3	12.8		ug/Kg		97	57 - 115
Endosulfan I	13.3	12.4		ug/Kg		93	56 - 115
Endosulfan II	13.3	12.5		ug/Kg		94	49 - 117
Endosulfan sulfate	13.3	11.3		ug/Kg		85	54 - 115
Endrin	13.3	11.5		ug/Kg		87	56 - 120
Endrin aldehyde	13.3	11.3		ug/Kg		85	41 - 115
Endrin ketone	13.3	12.1		ug/Kg		91	54 - 119
gamma-BHC (Lindane)	13.3	10.4		ug/Kg		78	49 - 115
Heptachlor	13.3	10.1		ug/Kg		76	52 - 115
Heptachlor epoxide	13.3	12.2		ug/Kg		92	38 - 128
Methoxychlor	13.3	11.4		ug/Kg		86	46 - 146

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*73*		*35 - 115*
DCB Decachlorobiphenyl (Surr)	*77*		*45 - 120*

Lab Sample ID: 440-189530-24 MS
Matrix: Solid
Analysis Batch: 422186

Client Sample ID: LD97438
Prep Type: Total/NA
Prep Batch: 421742

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	ND		40.0	29.0		ug/Kg	☼	72	40 - 130
4,4'-DDE	70	F1 F2	40.0	47.9	p F1	ug/Kg	☼	-55	35 - 130
4,4'-DDT	7.9	J p F1 F2	40.0	11.8	J p F1	ug/Kg	☼	10	35 - 130
Aldrin	ND	F1 F2	40.0	5.90	J p F1	ug/Kg	☼	15	40 - 115
alpha-BHC	ND	F1 F2	40.0	91.2	F1	ug/Kg	☼	228	40 - 115
beta-BHC	ND	F2	40.0	18.9		ug/Kg	☼	47	40 - 120
delta-BHC	ND		40.0	21.5	J	ug/Kg	☼	54	45 - 120
Dieldrin	ND	F2	40.0	31.2		ug/Kg	☼	78	40 - 125
Endosulfan I	ND		40.0	27.5		ug/Kg	☼	69	40 - 120
Endosulfan II	ND		40.0	17.6		ug/Kg	☼	44	40 - 125
Endosulfan sulfate	ND	F1 F2	40.0	78.6	F1	ug/Kg	☼	197	45 - 120
Endrin	ND		40.0	21.8		ug/Kg	☼	55	45 - 125
Endrin aldehyde	ND		40.0	24.6		ug/Kg	☼	62	30 - 120
Endrin ketone	ND	F1 F2	40.0	6.76	J p F1	ug/Kg	☼	17	40 - 120
gamma-BHC (Lindane)	ND	F2	40.0	21.9		ug/Kg	☼	55	40 - 120
Heptachlor	ND	F2	40.0	18.4		ug/Kg	☼	46	40 - 115
Heptachlor epoxide	ND	F2	40.0	19.2		ug/Kg	☼	48	45 - 115
Methoxychlor	ND	F1 F2	40.0	7.72	J F1	ug/Kg	☼	19	40 - 135

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 440-189530-24 MS
Matrix: Solid
Analysis Batch: 422186

Client Sample ID: LD97438
Prep Type: Total/NA
Prep Batch: 421742

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	*59*		*35 - 115*
DCB Decachlorobiphenyl (Surr)	*39*	*X*	*45 - 120*

Lab Sample ID: 440-189530-24 MSD
Matrix: Solid
Analysis Batch: 422186

Client Sample ID: LD97438
Prep Type: Total/NA
Prep Batch: 421742

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	ND		40.7	35.2		ug/Kg	☼	87	40 - 130	19	30
4,4'-DDE	70	F1 F2	40.7	98.6	F2	ug/Kg	☼	71	35 - 130	69	30
4,4'-DDT	7.9	J p F1 F2	40.7	22.7	p F2	ug/Kg	☼	36	35 - 130	63	30
Aldrin	ND	F1 F2	40.7	15.8	p F1 F2	ug/Kg	☼	39	40 - 115	91	30
alpha-BHC	ND	F1 F2	40.7	139	F1 F2	ug/Kg	☼	343	40 - 115	42	30
beta-BHC	ND	F2	40.7	35.0	F2	ug/Kg	☼	86	40 - 120	60	30
delta-BHC	ND		40.7	26.2	J	ug/Kg	☼	64	45 - 120	20	30
Dieldrin	ND	F2	40.7	47.8	F2	ug/Kg	☼	118	40 - 125	42	30
Endosulfan I	ND		40.7	23.6	p	ug/Kg	☼	58	40 - 120	15	30
Endosulfan II	ND		40.7	22.4		ug/Kg	☼	55	40 - 125	24	30
Endosulfan sulfate	ND	F1 F2	40.7	107	F1 F2	ug/Kg	☼	264	45 - 120	31	30
Endrin	ND		40.7	27.6		ug/Kg	☼	68	45 - 125	23	30
Endrin aldehyde	ND		40.7	19.7		ug/Kg	☼	48	30 - 120	22	30
Endrin ketone	ND	F1 F2	40.7	9.59	J p F1 F2	ug/Kg	☼	24	40 - 120	35	30
gamma-BHC (Lindane)	ND	F2	40.7	30.3	F2	ug/Kg	☼	75	40 - 120	32	30
Heptachlor	ND	F2	40.7	27.9	p F2	ug/Kg	☼	69	40 - 115	41	30
Heptachlor epoxide	ND	F2	40.7	28.8	p F2	ug/Kg	☼	71	45 - 115	40	30
Methoxychlor	ND	F1 F2	40.7	15.7	p F1 F2	ug/Kg	☼	38	40 - 135	68	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Tetrachloro-m-xylene	*99*		*35 - 115*
DCB Decachlorobiphenyl (Surr)	*52*		*45 - 120*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 440-422402/1-A
Matrix: Solid
Analysis Batch: 422684

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 422402

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		08/10/17 08:11	08/11/17 11:52	1
Aroclor 1221	ND		50	17	ug/Kg		08/10/17 08:11	08/11/17 11:52	1
Aroclor 1232	ND		50	17	ug/Kg		08/10/17 08:11	08/11/17 11:52	1
Aroclor 1242	ND		50	17	ug/Kg		08/10/17 08:11	08/11/17 11:52	1
Aroclor 1248	ND		50	17	ug/Kg		08/10/17 08:11	08/11/17 11:52	1
Aroclor 1254	ND		50	17	ug/Kg		08/10/17 08:11	08/11/17 11:52	1
Aroclor 1260	ND		50	17	ug/Kg		08/10/17 08:11	08/11/17 11:52	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 440-422402/1-A
Matrix: Solid
Analysis Batch: 422684

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 422402

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	95		45 - 120	08/10/17 08:11	08/11/17 11:52	1

Lab Sample ID: LCS 440-422402/2-A
Matrix: Solid
Analysis Batch: 422684

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 422402

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	267	211		ug/Kg		79	65 - 115
Aroclor 1260	267	217		ug/Kg		81	65 - 115

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	81		45 - 120

Lab Sample ID: 440-189530-23 MS
Matrix: Solid
Analysis Batch: 422684

Client Sample ID: LD97437
Prep Type: Total/NA
Prep Batch: 422402

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	ND		831	752		ug/Kg	☼	90	50 - 120
Aroclor 1260	ND		831	653		ug/Kg	☼	79	50 - 125

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	69		45 - 120

Lab Sample ID: 440-189530-23 MSD
Matrix: Solid
Analysis Batch: 422684

Client Sample ID: LD97437
Prep Type: Total/NA
Prep Batch: 422402

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	ND		818	759		ug/Kg	☼	93	50 - 120	1	30
Aroclor 1260	ND		818	632		ug/Kg	☼	77	50 - 125	3	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	79		45 - 120

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-421627/1-A ^5
Matrix: Solid
Analysis Batch: 421990

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 421627

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		9.9	5.0	mg/Kg		08/07/17 08:52	08/08/17 13:10	5
Arsenic	ND		3.0	1.5	mg/Kg		08/07/17 08:52	08/08/17 13:10	5
Barium	ND		1.5	0.74	mg/Kg		08/07/17 08:52	08/08/17 13:10	5
Beryllium	ND		0.50	0.25	mg/Kg		08/07/17 08:52	08/08/17 13:10	5
Cadmium	ND		0.50	0.25	mg/Kg		08/07/17 08:52	08/08/17 13:10	5

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 440-421627/1-A ^5
Matrix: Solid
Analysis Batch: 421990

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 421627

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.99	0.50	mg/Kg		08/07/17 08:52	08/08/17 13:10	5
Cobalt	ND		0.99	0.50	mg/Kg		08/07/17 08:52	08/08/17 13:10	5
Copper	ND		2.0	1.1	mg/Kg		08/07/17 08:52	08/08/17 13:10	5
Lead	ND		2.0	0.99	mg/Kg		08/07/17 08:52	08/08/17 13:10	5
Molybdenum	ND		2.0	0.99	mg/Kg		08/07/17 08:52	08/08/17 13:10	5
Nickel	ND		2.0	0.99	mg/Kg		08/07/17 08:52	08/08/17 13:10	5
Selenium	ND		3.0	1.7	mg/Kg		08/07/17 08:52	08/08/17 13:10	5
Silver	ND		1.5	0.74	mg/Kg		08/07/17 08:52	08/08/17 13:10	5
Thallium	ND		9.9	5.0	mg/Kg		08/07/17 08:52	08/08/17 13:10	5
Vanadium	ND		0.99	0.50	mg/Kg		08/07/17 08:52	08/08/17 13:10	5
Zinc	ND		5.0	2.5	mg/Kg		08/07/17 08:52	08/08/17 13:10	5

Lab Sample ID: LCS 440-421627/2-A ^5
Matrix: Solid
Analysis Batch: 421990

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 421627

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	49.8	49.6		mg/Kg		100	80 - 120
Arsenic	49.8	50.8		mg/Kg		102	80 - 120
Barium	49.8	50.9		mg/Kg		102	80 - 120
Beryllium	49.8	49.6		mg/Kg		100	80 - 120
Cadmium	49.8	50.0		mg/Kg		100	80 - 120
Chromium	49.8	50.7		mg/Kg		102	80 - 120
Cobalt	49.8	51.0		mg/Kg		102	80 - 120
Copper	49.8	51.2		mg/Kg		103	80 - 120
Lead	49.8	50.7		mg/Kg		102	80 - 120
Molybdenum	49.8	50.1		mg/Kg		101	80 - 120
Nickel	49.8	50.9		mg/Kg		102	80 - 120
Selenium	49.8	46.5		mg/Kg		93	80 - 120
Silver	24.9	25.3		mg/Kg		102	80 - 120
Thallium	49.8	50.1		mg/Kg		101	80 - 120
Zinc	49.8	49.7		mg/Kg		100	80 - 120

Lab Sample ID: 440-189679-A-1-B MS ^5
Matrix: Solid
Analysis Batch: 421990

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 421627

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND	F1	50.0	36.0	F1	mg/Kg		72	75 - 125
Arsenic	1.8	J	50.0	53.4		mg/Kg		103	75 - 125
Barium	69		50.0	131		mg/Kg		124	75 - 125
Beryllium	0.34	J	50.0	51.3		mg/Kg		102	75 - 125
Cadmium	ND		50.0	50.1		mg/Kg		100	75 - 125
Chromium	11		50.0	65.5		mg/Kg		108	75 - 125
Cobalt	4.3		50.0	54.8		mg/Kg		101	75 - 125
Copper	6.2		50.0	60.2		mg/Kg		108	75 - 125
Lead	2.8		50.0	53.7		mg/Kg		102	75 - 125
Molybdenum	ND		50.0	50.3		mg/Kg		101	75 - 125
Nickel	7.2		50.0	59.6		mg/Kg		105	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 440-189679-A-1-B MS ^5
Matrix: Solid
Analysis Batch: 421990

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 421627

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Selenium	ND		50.0	47.9		mg/Kg		96	75 - 125
Silver	ND		25.0	25.6		mg/Kg		102	75 - 125
Thallium	ND		50.0	48.6		mg/Kg		97	75 - 125
Zinc	19		50.0	72.3		mg/Kg		107	75 - 125

Lab Sample ID: 440-189679-A-1-C MSD ^5
Matrix: Solid
Analysis Batch: 421990

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 421627

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND	F1	49.5	34.7	F1	mg/Kg		70	75 - 125	4	20
Arsenic	1.8	J	49.5	53.3		mg/Kg		104	75 - 125	0	20
Barium	69		49.5	124		mg/Kg		113	75 - 125	5	20
Beryllium	0.34	J	49.5	51.7		mg/Kg		104	75 - 125	1	20
Cadmium	ND		49.5	50.2		mg/Kg		102	75 - 125	0	20
Chromium	11		49.5	65.5		mg/Kg		109	75 - 125	0	20
Cobalt	4.3		49.5	54.7		mg/Kg		102	75 - 125	0	20
Copper	6.2		49.5	60.5		mg/Kg		110	75 - 125	1	20
Lead	2.8		49.5	54.0		mg/Kg		104	75 - 125	1	20
Molybdenum	ND		49.5	50.7		mg/Kg		102	75 - 125	1	20
Nickel	7.2		49.5	60.1		mg/Kg		107	75 - 125	1	20
Selenium	ND		49.5	48.5		mg/Kg		98	75 - 125	1	20
Silver	ND		24.8	25.8		mg/Kg		104	75 - 125	1	20
Thallium	ND		49.5	48.9		mg/Kg		99	75 - 125	1	20
Zinc	19		49.5	72.9		mg/Kg		109	75 - 125	1	20

Lab Sample ID: MB 440-424322/1-A ^20
Matrix: Solid
Analysis Batch: 424541

Client Sample ID: Method Blank
Prep Type: STLC Citrate

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.10	0.040	mg/L			08/21/17 14:35	20
Copper	ND		0.20	0.060	mg/L			08/21/17 14:35	20

Lab Sample ID: LCS 440-424322/2-A ^20
Matrix: Solid
Analysis Batch: 424541

Client Sample ID: Lab Control Sample
Prep Type: STLC Citrate

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	20.0	20.2		mg/L		101	80 - 120
Copper	20.0	20.8		mg/L		104	80 - 120

Lab Sample ID: 440-189530-26 MS
Matrix: Solid
Analysis Batch: 424541

Client Sample ID: LD97440
Prep Type: STLC Citrate

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	1.3		20.0	21.8		mg/L		102	75 - 125
Copper	0.083	J	20.0	21.3		mg/L		106	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 440-189530-26 MSD
Matrix: Solid
Analysis Batch: 424541

Client Sample ID: LD97440
Prep Type: STLC Citrate

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium	1.3		20.0	21.2		mg/L		99	75 - 125	3	20
Copper	0.083	J	20.0	20.9		mg/L		104	75 - 125	2	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 440-422340/1-A
Matrix: Solid
Analysis Batch: 422610

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 422340

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020	0.012	mg/Kg		08/09/17 22:26	08/10/17 17:51	1

Lab Sample ID: LCS 440-422340/2-A
Matrix: Solid
Analysis Batch: 422610

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 422340

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.800	0.804		mg/Kg		101	80 - 120

Lab Sample ID: 440-189680-A-50-B MS
Matrix: Solid
Analysis Batch: 422610

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 422340

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.051		0.809	0.758		mg/Kg	☼	87	70 - 130

Lab Sample ID: 440-189680-A-50-C MSD
Matrix: Solid
Analysis Batch: 422610

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 422340

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.051		0.809	0.822		mg/Kg	☼	95	70 - 130	8	20

Method: 9014 - Cyanide

Lab Sample ID: MB 440-421803/1-A
Matrix: Solid
Analysis Batch: 421954

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 421803

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.50	0.43	mg/Kg		08/07/17 16:53	08/08/17 12:24	1

Lab Sample ID: LCS 440-421803/2-A
Matrix: Solid
Analysis Batch: 421954

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 421803

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	5.00	4.60		mg/Kg		92	90 - 110

Method: 9014 - Cyanide (Continued)

Lab Sample ID: 440-189530-27 MS
Matrix: Solid
Analysis Batch: 421954

Client Sample ID: LD97441
Prep Type: Total/NA
Prep Batch: 421803

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.79		7.52	6.90		mg/Kg	☼	81	70 - 115

Lab Sample ID: 440-189530-27 MSD
Matrix: Solid
Analysis Batch: 421954

Client Sample ID: LD97441
Prep Type: Total/NA
Prep Batch: 421803

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	0.79		7.63	6.93		mg/Kg	☼	80	70 - 115	0	15

Method: 9095B - Paint Filter

Lab Sample ID: 440-189530-29 DU
Matrix: Solid
Analysis Batch: 422691

Client Sample ID: LD97443
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Free Liquid	ND		ND		mL/100g		NC	20

Method: SM 2540G - Total, Fixed, and Volatile Solids

Lab Sample ID: MB 440-421817/1
Matrix: Solid
Analysis Batch: 421817

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Volatile Solids	ND		0.050	0.050	%			08/07/17 18:17	1

Lab Sample ID: 440-189530-25 DU
Matrix: Solid
Analysis Batch: 421817

Client Sample ID: LD97439
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Solids	65		65.9		%		0.6	10
Total Solids	65		65.9		%		0.6	10
Total Volatile Solids	39		39.5		%		1	10
Total Volatile Solids	39		39.5		%		1	10

GC/MS VOA

Analysis Batch: 421853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-189530-21	LD97435	Total/NA	Solid	8260B	
MB 440-421853/4	Method Blank	Total/NA	Solid	8260B	
LCS 440-421853/5	Lab Control Sample	Total/NA	Solid	8260B	
440-189622-A-1 MS	Matrix Spike	Total/NA	Solid	8260B	
440-189622-A-1 MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 421499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-189530-22	LD97436	Total/NA	Solid	3546	

Analysis Batch: 422335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-189530-22	LD97436	Total/NA	Solid	8270C	421499

GC Semi VOA

Prep Batch: 421742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-189530-24	LD97438	Total/NA	Solid	3546	
MB 440-421742/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-421742/2-A	Lab Control Sample	Total/NA	Solid	3546	
440-189530-24 MS	LD97438	Total/NA	Solid	3546	
440-189530-24 MSD	LD97438	Total/NA	Solid	3546	

Prep Batch: 421930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-189530-28	LD97442	Silica Gel Cleanup	Solid	3546	
MB 440-421930/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	
LCS 440-421930/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
440-189530-28 MS	LD97442	Silica Gel Cleanup	Solid	3546	
440-189530-28 MSD	LD97442	Silica Gel Cleanup	Solid	3546	

Analysis Batch: 422061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-189530-28	LD97442	Silica Gel Cleanup	Solid	8015B	421930
MB 440-421930/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	421930
LCS 440-421930/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	421930
440-189530-28 MS	LD97442	Silica Gel Cleanup	Solid	8015B	421930
440-189530-28 MSD	LD97442	Silica Gel Cleanup	Solid	8015B	421930

Analysis Batch: 422186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-189530-24	LD97438	Total/NA	Solid	8081A	421742
MB 440-421742/1-A	Method Blank	Total/NA	Solid	8081A	421742
LCS 440-421742/2-A	Lab Control Sample	Total/NA	Solid	8081A	421742
440-189530-24 MS	LD97438	Total/NA	Solid	8081A	421742
440-189530-24 MSD	LD97438	Total/NA	Solid	8081A	421742

GC Semi VOA (Continued)

Prep Batch: 422402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-189530-23	LD97437	Total/NA	Solid	3546	
MB 440-422402/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-422402/2-A	Lab Control Sample	Total/NA	Solid	3546	
440-189530-23 MS	LD97437	Total/NA	Solid	3546	
440-189530-23 MSD	LD97437	Total/NA	Solid	3546	

Analysis Batch: 422684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-189530-23	LD97437	Total/NA	Solid	8082	422402
MB 440-422402/1-A	Method Blank	Total/NA	Solid	8082	422402
LCS 440-422402/2-A	Lab Control Sample	Total/NA	Solid	8082	422402
440-189530-23 MS	LD97437	Total/NA	Solid	8082	422402
440-189530-23 MSD	LD97437	Total/NA	Solid	8082	422402

Metals

Prep Batch: 421627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-189530-26	LD97440	Total/NA	Solid	3050B	
MB 440-421627/1-A ^5	Method Blank	Total/NA	Solid	3050B	
LCS 440-421627/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
440-189679-A-1-B MS ^5	Matrix Spike	Total/NA	Solid	3050B	
440-189679-A-1-C MSD ^5	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Analysis Batch: 421990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-189530-26	LD97440	Total/NA	Solid	6010B	421627
MB 440-421627/1-A ^5	Method Blank	Total/NA	Solid	6010B	421627
LCS 440-421627/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	421627
440-189679-A-1-B MS ^5	Matrix Spike	Total/NA	Solid	6010B	421627
440-189679-A-1-C MSD ^5	Matrix Spike Duplicate	Total/NA	Solid	6010B	421627

Prep Batch: 422340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-189530-26	LD97440	Total/NA	Solid	7471A	
MB 440-422340/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 440-422340/2-A	Lab Control Sample	Total/NA	Solid	7471A	
440-189680-A-50-B MS	Matrix Spike	Total/NA	Solid	7471A	
440-189680-A-50-C MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	

Analysis Batch: 422610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-189530-26	LD97440	Total/NA	Solid	7471A	422340
MB 440-422340/1-A	Method Blank	Total/NA	Solid	7471A	422340
LCS 440-422340/2-A	Lab Control Sample	Total/NA	Solid	7471A	422340
440-189680-A-50-B MS	Matrix Spike	Total/NA	Solid	7471A	422340
440-189680-A-50-C MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	422340

Metals (Continued)

Leach Batch: 424322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-189530-26	LD97440	STLC Citrate	Solid	CA WET Citrate	
MB 440-424322/1-A ^20	Method Blank	STLC Citrate	Solid	CA WET Citrate	
LCS 440-424322/2-A ^20	Lab Control Sample	STLC Citrate	Solid	CA WET Citrate	
440-189530-26 MS	LD97440	STLC Citrate	Solid	CA WET Citrate	
440-189530-26 MSD	LD97440	STLC Citrate	Solid	CA WET Citrate	

Analysis Batch: 424541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-189530-26	LD97440	STLC Citrate	Solid	6010B	424322
MB 440-424322/1-A ^20	Method Blank	STLC Citrate	Solid	6010B	424322
LCS 440-424322/2-A ^20	Lab Control Sample	STLC Citrate	Solid	6010B	424322
440-189530-26 MS	LD97440	STLC Citrate	Solid	6010B	424322
440-189530-26 MSD	LD97440	STLC Citrate	Solid	6010B	424322

General Chemistry

Prep Batch: 421803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-189530-27	LD97441	Total/NA	Solid	9010B	
MB 440-421803/1-A	Method Blank	Total/NA	Solid	9010B	
LCS 440-421803/2-A	Lab Control Sample	Total/NA	Solid	9010B	
440-189530-27 MS	LD97441	Total/NA	Solid	9010B	
440-189530-27 MSD	LD97441	Total/NA	Solid	9010B	

Analysis Batch: 421815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-189530-21	LD97435	Total/NA	Solid	Moisture	
440-189530-22	LD97436	Total/NA	Solid	Moisture	
440-189530-23	LD97437	Total/NA	Solid	Moisture	
440-189530-24	LD97438	Total/NA	Solid	Moisture	
440-189530-25	LD97439	Total/NA	Solid	Moisture	
440-189530-26	LD97440	Total/NA	Solid	Moisture	
440-189530-27	LD97441	Total/NA	Solid	Moisture	
440-189530-28	LD97442	Total/NA	Solid	Moisture	
440-189530-29	LD97443	Total/NA	Solid	Moisture	
440-189530-25 DU	LD97439	Total/NA	Solid	Moisture	

Analysis Batch: 421817

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-189530-25	LD97439	Total/NA	Solid	SM 2540G	
MB 440-421817/1	Method Blank	Total/NA	Solid	SM 2540G	
440-189530-25 DU	LD97439	Total/NA	Solid	SM 2540G	

Analysis Batch: 421954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-189530-27	LD97441	Total/NA	Solid	9014	421803
MB 440-421803/1-A	Method Blank	Total/NA	Solid	9014	421803
LCS 440-421803/2-A	Lab Control Sample	Total/NA	Solid	9014	421803
440-189530-27 MS	LD97441	Total/NA	Solid	9014	421803
440-189530-27 MSD	LD97441	Total/NA	Solid	9014	421803

General Chemistry (Continued)

Analysis Batch: 422691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-189530-29	LD97443	Total/NA	Solid	9095B	
440-189530-29 DU	LD97443	Total/NA	Solid	9095B	

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
X	Surrogate is outside control limits
B	Compound was found in the blank and sample.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: City of San Jose Water Pollution Control
Project/Site: Plant Operations

TestAmerica Job ID: 440-189530-1

Laboratory: TestAmerica Irvine

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska	State Program	10	CA01531	06-30-18 *
Arizona	State Program	9	AZ0671	10-14-17
California	LA Cty Sanitation Districts	9	10256	06-30-18
California	State Program	9	CA ELAP 2706	06-30-18
Guam	State Program	9	Cert. No. 17-003R	01-23-18
Hawaii	State Program	9	N/A	01-29-18
Kansas	NELAP Secondary AB	7	E-10420	07-31-17 *
Nevada	State Program	9	CA015312018-1	07-31-18 *
New Mexico	State Program	6	N/A	01-29-18 *
Northern Mariana Islands	State Program	9	MP0002	01-29-17 *
Oregon	NELAP	10	4028	01-29-18
USDA	Federal		P330-15-00184	07-08-18
Washington	State Program	10	C900	09-03-17 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

440-189530 Chain of Custody

CITY OF SAN JOSE
CAPITAL OF SILICON VALLEY

Watershed Protection Division
Environmental Services Department

Login Batch: 2017-08-01-022

CHAIN OF CUSTODY

Lab Supervisor / Designee

Date Request Printed: **8/1/2017 3:16:15PM**	Send Report To: **Rey Honrada**
Project ID / Sample Source: **PLANT OPERATIONS**	
Sample Collector: **JDONALD/TEGAN**	Turn-around-Time: **15 calendar days**

Date & Time Collected	Sample ID	Client Sample ID	Containers	Analysis		Matrix	Preservation
8/1/2017 11:04:00AM	LD97435	Biosolids Comp-Volatiles	1 8oz Glass	Volatile Organics	EPA 8260B	Sludge	6 C
8/1/2017 11:04:00AM	LD97436	olids Comp-Semi-vol. incl.	1 8oz Glass	Semivolatile Organics	EPA 8270C	Sludge	6 C
8/1/2017 11:04:00AM	LD97437	Biosolids Comp-PCBs	1 8oz Glass	PCBs	EPA 8082	Sludge	6 C
8/1/2017 11:04:00AM	LD97438	Biosolids Comp-Pesticides	1 8oz Glass	Pesticides	EPA 8081	Sludge	6 C
8/1/2017 11:04:00AM	LD97439	Biosolids Comp-TS & VS	1 8oz Glass	Solids, Total Drying Dishes	SM2540G	Sludge	6 C
				Solids, Volatile	SM2540G		
8/1/2017 11:04:00AM	LD97440	osolids Comp-CAM 17 meta	1 8oz Glass	17 Metals TTLC	EPA 6010B	Sludge	6 C
8/1/2017 11:04:00AM	LD97441	Biosolids Comp-Cyanide	1 8oz Glass	Cyanide, Total in Solids	9012A	Sludge	6 C
① 8/1/2017 11:04:00AM	LD97442	-TPH Diesel&MotorOil w/sil	1 8oz Glass	Diesel Range Organics /Motor Oil -RCH 8/1/17	EPA 8015B	Sludge	6 C
8/1/2017 11:04:00AM	LD97443	Comp-Paint Filter Test (fre	1 8oz Glass	Free Liquid by Paint Filter	EPA 9095B	Sludge	6 C

Comments: ① PERFORM SILICA GEL CLEANUP FOR LD97442 ANALYSIS -RCH 8/1/17 # 7410-7932-9770

Relinquished by: same as collector		Received by: Rey Honrada 8/1/17	Surrendered to Lab: 8/1/2017 12:30:00PM
Signature/Date:		Signature/Date: @ 12:30	
Released by: Rey Honrada	8/1/17 @ 15:40	Received by: Eamon 8/1/17	Expenditure Identifier: 513-WPCP
Signature/Date:		Signature/Date: 1540	LB 8/3/17
Released by:		Received By:	Contract Lab: **TestAmerica**
Signature/Date: 8/1/17 1830		Signature/Date: 8-1-17 1830	2.6/2.4°C

8-2-17-1600 8/3/17 4.2oz 925 SC

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8/28/2017

Login Sample Receipt Checklist

Client: City of San Jose Water Pollution Control

Job Number: 440-189530-1

Login Number: 189530
List Number: 1
Creator: Escalante, Maria I

List Source: TestAmerica Irvine

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Other Subjects in 2017

Surveillance Activities

In 2017, the City performed surveillance monitoring at six permitted Industrial Users (IUs): Sanmina Corporation, Cordova Printed Circuits, Du All Anodizing Corporation, EPZ Incorporated, University Plating Company, and Viasystems Corporation dba TTM Technologies. This monitoring was conducted in accordance with the City's 2017 Surveillance Monitoring Annual Work Plan. A total of 60 composite samples were collected. Anomalies in excess of local discharge limits were identified at the Du All Anodizing Corporation and Sanmina Corporation surveillance monitoring locations. Surveillance monitoring of additional IUs will continue in 2018.

Discharger Identification Program

The Industrial User Identification and Inventory Program, also known as Industrial Surveys, includes several methods for identifying potential IUs. Methods include reviewing new business licenses, conducting internet searches, following-up on information collected during routine inspections and plan checks for new industries, and investigating referrals from other agencies. The program also includes more frequent inspections of de-permitted or closed IUs, improved documentation of IU assessment and inspection activities, additional identification and characterization training for inspection staff, and improved interaction with member agencies and other regulatory agencies. Additionally, the City has continued to update guidance documents and SOPs for the Industrial User Identification and Inventory Program.

In 2017, 46 potential IUs were identified and investigated. Of the 46 IUs investigated, one is still pending final evaluation, eight were permitted, and 37 did not require a permit. Of the 37 that did not require a permit, 35 were notified in person and two were issued "No Permit Required" letters. None were placed on a re-inspection schedule.

Table 1: Total IUs Investigated and Current Status.

Category	1st Quarter 2017	2nd Quarter 2017	3rd Quarter 2017	4th Quarter 2017	Annual Total
No Permit Required	13	7	10	7	37
Permitted	5	1	1	1	8
Under Investigation	0	0	1	0	1
Total Investigated	18	8	12	8	46

Also, during 2017, 70 new dental facility permit applications were mailed out. Of those 70 permit applications mailed out, a total of 66 were completed and returned. Follow up actions will be performed for the remaining dental facility permit applications in 2018.

Partnerships

Pretreatment staff continue to participate in regional collaborative efforts with other public agencies in 2017. These collaborative efforts ultimately resulted in improved protection for the environment. Brief descriptions are provided below:

- Source Control staff continued to facilitate meetings between the SunPower Corporation and J. Lohr Winery. SunPower replaced and upgraded their Acid Waste Neutralization (AWN) system, and J. Lohr Winery purchased SunPower's original AWN system. This partnership resulted in better pretreatment for both Industrial Users and kept waste from the landfill.

- The City's Pretreatment Program management staff attend and actively participate in quarterly Bay Area Clean Water Agencies (BACWA) Pretreatment regional agency meetings. Agency members participate in development of regional Best Management Practices (BMPs), discussions on various pretreatment program compliance topics, and adoption of updated EPA rules and regulations.

- Pretreatment staff regularly attend and participate in bi-monthly Santa Clara County District Attorney's Office Environmental Crimes Unit Task Force meetings.

Inspector Training

In 2017, Pretreatment staff attended the following training programs and or conferences:

- City of San Jose Environmental Services Department (ESD) Monthly Safety Tailgate – Universal Waste, January
- Department of Toxic Substances Control (DTSC) "Hazardous Waste Tracking System" Training, January 3
- DTSC in partnership with City of Santa Clara Fire Department "Environmental Enforcement Sampling" Training, January 18-19
- California Water Environment Association (CWEA) in association with Pretreatment, Pollution Prevention and Stormwater Professionals (P3S) "Federal Regulatory Updates" Webinar, February 2
- City of San Jose ESD Monthly Safety Tailgate – Compressed Gasses and Compressed Air, February
- CWEA P3S Conference, February 27-March 1
- City of San Jose ESD Monthly Safety Tailgate – Hazardous Waste, March
- Cardiopulmonary Resuscitation/ Automated External Defibrillator (CPR/AED) Training, March 8, October 3

- City of San Jose ESD Monthly Safety Tailgate – Ergonomics, April
- City of San Jose ESD Monthly Safety Tailgate – Hazardous Materials Storage and Globally Harmonized System (GHS) Labeling, May
- City of San Jose ESD Monthly Safety Tailgate – Heat Illness Prevention, June
- Defensive Driving, June 28
- Federal Emergency Management Agency (FEMA) IS-100.PWB: Introduction to the Incident Command System (ICS 100) for Public Works, June 30
- City of San Jose ESD Monthly Safety Tailgate – Insect and Pest Safety, July
- City of San Jose ESD Monthly Safety Tailgate – Personal Protective Equipment, August
- Hazardous Waste Operations & Emergency Response (HAZWOPER) 8-Hour Refresher Training, August 1
- FEMA IS-700.A: National Incident Management System (NIMS), August 7
- City of San Jose ESD Monthly Safety Tailgate – Lockout-Tagout (LOTO), September
- pH Verification Log Training for Environmental Inspectors, September 8
- Quality Assurance for Wastewater Sampling, September 20
- Confined Space Operations Training, September 20
- City of San Jose ESD Monthly Safety Tailgate – Near Miss and Incident Reporting, October
- Standardized Emergency Management Systems (SEMS) Training, October 3
- Non-Discrimination and Anti-Harassment Supervisor, October 4, 19
- First Aid Training, October 17, December 7
- City of San Jose ESD Monthly Safety Tailgate – Seasonal Flu, November
- City of San Jose ESD University, November 1
- City of San Jose ESD Monthly Safety Tailgate – Electrical Safety, December
- Bay Area Clean Water Agencies (BACWA) Dental Amalgam Training, December 4
- California EPA Basic Inspector Academy, December 5-8
- Fall Protection Training, December 7

Industrial User Academy

Industrial Users sent participants to the City's annual Industrial User Academy on April 20, 2017. The Industrial User Academy is an interactive workshop that assists participants in understanding their Discharge Permit requirements and methods for maintaining compliance. Often, IUs send new employees or those responsible for the IU's Environmental Health and Safety issues to the training. At the Academy, City inspectors presented hands-on modules that included review of user's current permit in small groups. Inspectors reviewed Self-Monitoring Reports (SMRs) and ways to avoid common errors. Inspectors described their field methodology for sampling, Chain of Custody and testing IU samples at the City's lab. In 2017, a total of 26 participants attended from different permitted facilities. At the conclusion of the Academy, the exit survey indicated that attendees rated their knowledge of the program and permit requirements as average or better from the beginning of the day.

Other Presentations

On March 1, 2017, Casey Fitzgerald, Pretreatment Program Manager, presented on Large Program Pretreatment Audits at the 2017 CWEA P3S Conference held in Santa Rosa, California.

On June 22, 2017, Jack Dickinson, Source Control Inspector, presented on Pretreatment Program Inspections at the City of San Jose Attorney's Office.

Septic Hauler Monitoring Program

The City's Septic Hauler Program accepts only domestic wastes originating from sanitary uses, specifically septic tanks and portable toilets from homes and businesses. The Pretreatment Program continues to issue three-year term permits to septic haulers. In 2017, the program depermitted one septic hauler, issued two new permits, and a total of 14 haulers were permitted within the City's jurisdiction for discharge at the Wastewater Facility. To protect the Wastewater Facility, septic samples are collected from every load of septage delivered to the Wastewater Facility. In 2017, the City collected 4,562 samples from Septic Haulers of which 1,299 or 28% percent were randomly selected, analyzed, and screened for abnormal results. Abnormalities included samples with unusually high metal concentrations and samples collected outside the tributary area. The City issued four Notices of Violation, seven Administrative Citations, four Warning Notices, one Verbal Warning, and one Compliance Meeting to Septic Haulers for violations of the City of San José Municipal Code.

Temporary Discharge Permit Program

Temporary Discharge Permits are issued primarily for the discharge of contaminated groundwater or construction water associated with environmental remediation or dewatering of construction projects. Applicants must submit flow documentation, along with an analysis of water to be discharged. A total of 31 Temporary Discharge Permits were issued in 2017.

Plan Check Program

Under the City's Plan Check Program, new businesses, primarily food related businesses (restaurants, fast food establishments, grocery stores, etc.), are required have plans reviewed and stamped by the City's Environmental Services Department. This program has been implemented to protect the collection system, and ultimately the Wastewater Facility, from oil and grease and other pollutants. Typically, a Plan Check includes the sizing of grease removal devices and additional pretreatment equipment and the implementation of best management practices. In 2017, 217 plan checks were performed. Of these plan checks, 75 were food services facilities, 85 were restaurants, 4 were dental facilities, 12 were industrial dischargers including potential permitted facilities, 6 were automotive, 3 were cultivation/dispensaries, and 32 were other types of facilities.

Restaurant Inspections

Food Service Establishments (FSEs) in San José are inspected for compliance with Best Management Practices (BMPs) related to grease management and grease removal device maintenance. For Fiscal Year 16-17, 556 FSEs were inspected in San José and 870 FSEs were inspected in the Tributary jurisdictions of the Cities of Cupertino, Milpitas, Santa Clara, Saratoga, Monte Sereno, Campbell, the Town of Los Gatos, and in the unincorporated portions of Santa Clara County served by the Burbank Sanitary District and County Sanitation Districts 2 & 3. FSEs in San José with grease control devices (GCD) installed onsite also receive separate GCD inspections. GCD inspections differ from FSE inspections in that they are wholly focused on the condition and functionality of the GCD. The inspector checks the structural integrity of the GCD, and takes a core

sample to assess the FOG and solids loading in the device. In FY 16-17, 2,261 GCDs were inspected.

Santa Clara contracted with San José to continue performing FOG Inspections as they transitioned the program out of San José. In the latter half of 2017 San Jose staff inspected 157 Santa Clara FSEs.

A major component of the FSE Inspection Program is educating FSE owners, managers, and workers on ordinance requirements and grease controlling BMPs. Fats, Oils, and Grease (FOG)-related educational materials have been developed to assist with education efforts. During FY 16-17, more than 2,114 educational pieces were distributed during FSE inspections to help FSE operators achieve and maintain compliance.

Enforcement actions are taken against any FSE that does not clean their grease control device at the minimum frequency and/or fails to keep records documenting the cleaning. Facilities found to have violations are re-inspected and enforcements are escalated until all violations are corrected. In FY 16-17, 743 of the 1426 FSEs inspected had one or more violation (52%, the same as FY 15-16 and up from 47% in FY 14-15), with 62% of inspected San José facilities in violation and 45% of Tributary Agency facilities in violation. A total of 973 discrete violations were documented (down from 1,088 in FY 15-16 but up from 893 in FY 14-15), 481 at San Jose facilities and 492 at Tributary area facilities. A total of 355 Official Warning Notices (up from 278 in FY 15-16), 16 Compliance Meetings (down from 25 in FY 15-16 and 19 in FY 14-15), 23 Administrative Citations (up from 20 in FY 15-16 but down from 24 in FY 14-15), and 18 Agency Referrals were issued. Agency Referrals are for FSEs in the Tributary that have a violation history that exceeds the limits of San Jose's enforcement authority in the jurisdiction, so the case is referred to the Agency for enforcement.

Additionally, staff from the FSE Inspection Program respond to reports of grease blockages in the sanitary sewer in San José and from collection system agencies throughout the Tributary area. These grease investigations involve inspecting FSEs near affected sewer lines for compliance with code requirements for grease control device installation and maintenance. Corrective actions are taken as needed to bring facilities into compliance and to minimize grease discharges to the collection system. In FY 16-17, the City performed 14 grease investigations (eight in San Jose, six in the Tributary area) involving 37 facilities, with 117 inspections conducted as part of these grease investigations. 44 violations were documented, and seven Official Warning Notices were issued were issued. Education is also an important component of grease investigations, with 124 FOG-related educational materials distributed as part of the grease investigations.

Tributary Tribune

The *Tributary Tribune* is a newsletter publication targeted specifically to the San Jose-Santa Clara Regional Wastewater Facility's approximately 223 IUs. The publication has continued in an electronic version in 2017. One issue was released in March 2017. The following articles were included:

- pH Chart Recorders – How to Stay in Compliance
- Understanding Significant Changes – When to Notify your Inspector
- Industrial User Academy Announcement

Each newsletter also includes a "Watershed Workforce" section that profiles a different staff member in each issue. All issues are posted on the City's website at: http://www.sanjoseca.gov/index.aspx?NID=4594

Dental Amalgam Program

Identified as a controllable source of mercury entering the collection system, wastewater from dental practices continues to be monitored through the City's Dental Amalgam permitting and inspection program. Implementation of a dental program to issue Dental Wastewater Discharge Permits began in 2009 and continued during 2017. Dental permits are issued on a five-year cycle and the program continues to reissue permits to dental practices in compliance with program requirements whose five-year permits were to expire. The Dental Amalgam Program issued 48 new permits and 23 renewals in 2017 to dentists in the Tributary area, bringing the total number of permitted dental practices in the program to 844. This represents a 99% percent participation rate of all identified dentists.

Requirements of the program include certification of implementation of dental amalgam best management practices and installation of an amalgam separator. Amalgam Separator Installation and BMP Certifications have been received from 95% of dental practices. In 2017, compliance with annual report submissions were 100% successful, due in part to continued enforcement measures for late reports. Dental Amalgam Program BMP and amalgam separator certifications are available for download on the City's website at: http://www.sanjoseca.gov/dental

Permit holders are inspected for compliance a minimum of once during the five-year permit cycle. Inspections in 2017 confirmed that amalgam separators were installed at over 99% of these practices, verifying the accuracy of their previously submitted self-certification statements. The remaining 1% represents newly identified dental facilities. Inspections of dental practices will continue in 2018. The Dental Amalgam Program identified 253 violations from dental practices in 2017. The majority of these were late reports or amalgam separator maintenance related. All violations were enforced and resolved.

Other Pollutant Reduction Activities

The San José-Santa Clara Regional Wastewater Facility implements programs to reduce pollutants from nondomestic users that are not classified as SIUs. Information for this section can be found in the 2017 Annual Pollution Prevention Report on the City's website: http://www.sanjoseca.gov/regulatoryreports

2017 PCS Data Entry Form

POTW Name: **San Jose/Santa Clara Water Pollution Control Plant** **NPDES Permit Number:** **CA0037842**

Period Covered By this Report: **01/01/17 (PSSD)** **Start Date** **12/31/17 (PSED)** **End Date**

Number of SIUs in Significant Non-Compliance (SNC) that are on a Pretreatment Compliance Schedule:	1	(SSNC)
Number of Notices of Violation and Administrative Orders Issued Against Significant Industrial Users:	35	(FENF)
Number of Civil & Criminal Judicial Actions Against Significant Industrial Users:	0	(JUDI)
Number of Significant Industrial Users with Significant Violations Published:	6	(SVPU)
Number of Significant Industrial Users from Which Penalties Have Been Collected	5	(IUPN)

PCS DATA ENTRY FORM

Documentation of Figures

- As of the December 31, 2017, one SIU in SNC was on a Pretreatment Compliance Schedule.
- The Number of NOVs and Administrative Orders includes, as listed in the Compliance Activities 2017 Table, in the Enforcement Summary section, 35 NOVs issued. There were no Administrative Orders issued in 2017.
- The Public Participation Summary section lists companies that were published, which had significant violations.
- The number of IUs from which penalties were collected was calculated as follows: five SIUs and four Non Significant Industrial Users received Administrative Citations.

SAN JOSÉ-SANTA CLARA REGIONAL WASTEWATER FACILITY
2017 SECOND SEMIANNUAL INDUSTRIAL USER VIOLATION REPORT

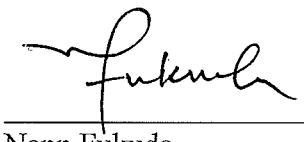
COVER SHEET

NPDES Permit Holder or Sewer Authority Name	The Cities of San José and Santa Clara
Report Date	February 28, 2018
Period Covered by This Report	From 07/01/2017 to 12/31/2017
Period Covered by Previous Report	From 01/01/2017 to 06/30/2017
Name of Wastewater Treatment Plant	San Jose/Santa Clara Water Pollution Control Plant
NPDES Permit Number	CA-0037842

Person to contact concerning information contained in this report:

Name	Casey Fitzgerald
Title	Pretreatment Program Manager
Mailing Address	200 East Santa Clara St., 7th Floor, San Jose, CA 95113
Telephone Number	(408) 793-5378

I have personally examined and am familiar with the information submitted in this document and attachments. Based upon my inquiry of those individuals immediately responsible for obtaining the information reported herein, I believe that the submitted information is true, accurate, and complete.



Napp Fukuda
Deputy Director
Environmental Services Department
Watershed Protection

2/28/18
Date

SAN JOSE-SANTA CLARA REGINONAL WASTWATER FACILITY
2017 SECOND SEMIANNUAL INDUSTRIAL USER VIOLATION REPORT

I. SAMPLING PROCEDURES

A. SAMPLE LOCATIONS

1. **Influent -** Influent samples are collected from the raw sewage wet well by automatic sampler and grab sampling. This location corresponds to Station INF-001 as set forth in the Wastewater Facility's NPDES Permit, CA-0037842.
2. **Effluent -** Effluent samples are collected from the effluent wet well by automatic sampler and grab sampling. This location corresponds to Station EFF-001 as set forth in the Wastewater Facility's NPDES Permit, CA-0037842.
3. **Biosolids –** Biosolids samples are collected from the Sludge Management Wastewater Facility drying beds for this monitoring period.

B. COLLECTION TIMES

1. **Automatic Sampling -** Automated sampling is performed using flow-proportioned, composite samplers that operate from midnight to midnight on consecutive days. Influent and effluent samples are taken during the same 24-hour period.
2. **Grab Sampling -** Grab samples are collected at a time corresponding to the Wastewater Facility's maximum peak flow at 12:30 hours.
3. **Grab Composite Sampling** – Grab samples are collected in six-hour intervals at 00:30, 06:30, 12:30, and 18:30 hours. The samples are combined in the Laboratory using flow-weighing parameters.
4. **Biosolids Sampling -** Biosolids samples are collected if available, in February and August and within the same twenty-four hour period as when influent and effluent samples are collected.

C. COLLECTION METHOD

1. **Direct Collection -** Wastewater samples for volatile organic compounds, semi-volatile organics, mercury and cyanide analyses are collected during the Wastewater Facility's peak flow period at 12:30 hours. Samples for the analysis of volatile organic compounds (VOCs) are collected directly into 40-mL glass vials with Teflon septum screw caps. The vials are filled to overflowing before being capped to eliminate any headspace.
   Semi-volatile organic compounds (BNA-base, neutral, acids) are collected directly into 1-liter amber glass bottles. Samples are refrigerated and stored in the dark after collection.
   Mercury samples are collected directly into 1-liter acid rinsed amber glass bottles utilizing clean hands techniques.
   Cyanide samples are collected in 2-liter amber plastic containers.
2. **Automatic Collection -** Wastewater samples for influent and effluent metal analyses, except for mercury analysis, are collected using automated composite samplers. Samples are collected based on flow into plastic carboys within refrigerated samplers. Samples are then refrigerated and stored in the dark after collection.
3. **Biosolids Collection –** Dry and wet weather biosolids samples are collected from the Wastewater Facility drying beds if available. Twenty grab samples are collected and then composited, using equal parts by weight, into a single sample for subsequent analyses. Samples are collected by employing a grid pattern map for sample locations. Biosolids grab samples are collected directly into 125-ml borosilicate glass.

D. STORAGE, PRESERVATION, AND HOLDING TIMES

1. **EPA Method 624 -** Samples for volatile organic compound analysis are collected in 40-ml glass vials with no air bubbles using septum, Teflon-lined caps and stored at four to six degrees centigrade. Sodium thiosulfate is used to remove residual chlorine when necessary. Samples are analyzed within three days.
2. **EPA Method 625 -** Samples for semi-volatile organic compound analysis are collected in one-liter amber glass containers, with Teflon-lined caps and stored at four to six degrees centigrade. Sodium thiosulfate is used to remove residual chlorine when necessary. Samples are extracted within seven days and the extracts analyzed within thirty days.
3. **Influent and Effluent Metals -** Samples for metals analysis, except for mercury, are collected in plastic or glass containers and stored at four to six degrees centigrade. Samples are preserved with Optima grade nitric acid to a pH < 2 and analyzed within six months. Samples for total mercury analysis are collected in one-liter amber glass bottles, preserved with 5ml/L of BrCl solution, and analyzed within ninety days.
4. **Influent and Effluent Cyanide** – Samples for cyanide analysis are collected in 2-liter amber plastic bottles and stored at four to six degrees centigrade. Prior to preservation with sodium hydroxide to pH$\geq$10, samples are checked and treated for oxidizers and sulfides. Preserved samples are analyzed within fourteen days.
5. **Biosolids** - Collected samples are stored and preserved at four to six degrees centigrade. Hold times vary with the analytical method application. Metals' hold time is six months except for mercury with a hold time of twenty-eight days. All organic analyses including organochlorine pesticides, PCB aroclors, semi-volatile organics, and volatile organics have a hold time of fourteen days.

II. METHOD OF SAMPLE DECHLORINATION

A. EFFLUENT SAMPLES

Dechlorination of effluent samples is not required since the samples are collected downstream of the Wastewater Facility's dechlorination process. The treatment plant uses sodium bisulfite injection for dechlorination.

B. INFLUENT SAMPLES

Influent may be pre-chlorinated at various times as an odor control measure. Sodium thiosulfate is used as a dechlorinating agent when necessary.

III. SAMPLE COLLECTION

A. INFLUENT AND EFFLUENT SAMPLES

Priority Pollutant Metals - Samples for priority pollutant metals analysis, except for mercury, are composited by automatic samplers based on the Wastewater Facility's flow rates.

Volatile organics, semi-volatile organics, mercury, and cyanide samples are collected by grab sampling during the Wastewater Facility's peak flow period.

B. BIOSOLIDS

Twenty individual grab samples are composited and split into appropriate fractions for each individual analyses required.

IV. DATA VALIDATION

A. METHOD BLANKS

Method blanks are routinely analyzed to demonstrate that the entire laboratory analytical process and system does not introduce significant contaminant levels. A method blank is included in each sample preparation batch as required by the referenced analytical method.

B. TRAVEL BLANKS

Travel blanks are routinely submitted with collected wastewater samples and analyzed to assess any significant contaminant levels that maybe introduced from the field or associated handling procedures during sample collection or transportation.

C. REPLICATES

Field replicates are routinely collected and analyzed to determine the precision of the sampling process.

Laboratory replicates are routinely analyzed to determine the precision of the analytical process.

D. SPIKED SAMPLES

Laboratory samples are routinely spiked with a known amount of the analyte(s) of interest to assess any sample matrix interferences or effects and determine the accuracy of the analytical process or system. The addition of a matrix spike duplicate will assess the precision of analytical process.

E. QA/QC CRITERIA

Acceptance criteria for the above listed chemical parameters follow protocol and/or guidelines of the EPA (40 CFR 136, EPA SW-846, EPA 600/4-79/020), Standard Methods for the Examination of Water and Wastewater and the California Environmental Laboratory Accreditation Program of the State Water Resources Board.

F. ANALYTICAL METHODOLOGY

Methods and techniques used for all chemical determinations strictly adhere to procedures published by the EPA (40 CFR 136, EPA SW-846, and EPA 600/4-79/020) or as published in the approved edition of Standard Methods for the Examination of Water and Wastewater.

G. CERTIFICATION STATEMENT [ATTACHED]

V. SAMPLE RESULTS

A. DRY-WEATHER SEASON SAMPLING – AUGUST, 2017

See Appendix I - Data Tables.

VI. DISCUSSION OF RESULTS

A. INFLUENT DISCUSSION

Base Neutral Acids (BNA) EPA625

Bis(2-ethylhexyl)phthalate is a common plasticizer for polymeric materials. Bis(2-ethylhexyl)phthalate is used primarily as a plasticizer during polyvinyl chloride and polymer production and is likely released into wastewater after water contact with plastic materials. **Bis(2-ethylhexyl)phthalate was reported as a DNQ value at 3.81µg/L**.

Phenol is used as a precursor in a number of industrial synthesis applications to produce resins, plastics, surfactants, detergents, emulsifiers, insecticides, and medical antiseptics. Other uses of phenol include anesthetic applications in ointments, ear and nose drops and cold sore lotions; and as a slimicide for bacteria and fungi growth. **Phenol was detected and reported at 12.8µg/L.**

Para Cresol (P-Cresol) can be found in petroleum products, artificially produced from auto and diesel emissions, coal production wastewater, disinfectants, metal refining, and chemical manufacturing. **P-cresol was detected at 58µg/L.** P-cresol is not a listed CTR compound.
Diethylphthalate is ubiquitous in the environment based on its many applications. It is used as a plasticizer in many products and as a solvent for cosmetics, personal care products, and insecticides. The degradation of this compound in an aqueous matrix is dependent on aerobic or anaerobic conditions for its breakdown in water. **Diethylphthalate was detected and reported as a DNQ value at 2.6µg/L**.

Volatile Organic Compounds (VOCs) EPA624

Chloroform may enter the environment through its use as an industrial solvent, extracting reagent, cleaning agent and as a by-product from the chlorination of water, wastewater, and cooling water. Chloroform is typically detected in this Wastewater Facility's influent. Artificial or indirect sources of chloroform are primarily as a chlorinated by-product in water treatments, paper mills, and combustion of leaded gasoline. **Chloroform was detected and reported at 2.5µg/L.**
Toluene is used as a general-purpose solvent, fuel additive, and chemical manufacturing constituent. Considerable amounts are discharged during the emissions, volatilization, storage, transport, and disposal of fuels and oils. **Toluene was detected and reported at 5.0µg/L**.
Ethylbenzene is a colorless organic liquid with a sweet, gasoline-like odor. The greatest use of ethylbenzene is to make styrene, another organic liquid used as a building block for many plastics. It is also used as a solvent for coatings, and in making rubber and plastic wrap. Ethylbenzene is released to the air primarily from its use in gasoline. **Ethylbenzene was reported as a DNQ value at 0.81µg/L**

Polychlorinated Biphenyls and Pesticides EPA608

There were **no detectable amounts** of Aroclors (PCBs) or organochlorine pesticides for this monitoring period in the Wastewater Facility's influent.

Cyanide

Cyanide monitoring during this period resulted in a single data point greater than the RL (reporting limit) of 3.0µg/L. On September 6, 2017, the Wastewater Facility's maximum influent cyanide level was reported at 4.8µg/L. All other influent cyanide results were reported as DNQ values with a reporting limit of 3.0µg/L.

Priority Pollutant Metals

All priority pollutant metals measured during this period were at concentrations characteristic of influent typically received by this Facility.

B. EFFLUENT DISCUSSION

Priority Pollutants for Base Neutral Acids (BNA) EPA625; Volatile Organic Compounds (VOCs) EPA624; Polychlorinated Biphenyls and Pesticides EPA608:

The Priority Pollutant Organics monitoring requirement defined in Attachment E, Section VII of the Wastewater Facility's NPDES Permit for Pretreatment and Biosolids Monitoring (Table E-5) was replaced by:

Constituents	Sampling Frequency			Sample Type	
	Influent INF-001 [1]	Effluent EFF-001 [1]	Biosolids BIO-001	Influent and Effluent	Biosolids[6]
VOC	*Unchanged. Refer to individual permits.*	Once per permit term	*Unchanged. Refer to individual permits.*	*Unchanged. Refer to individual permits.*	
BNA		Once per permit term			

As defined by **Order No. R2-2016-008: Alternate Monitoring and Reporting Requirements for Municipal Wastewater Dischargers for the Purpose of Adding Support to the San Francisco Bay Regional Monitoring Program.**
The Order, effective April 2016, reduced the frequency of the Wastewater Facility's final effluent monitoring for priority pollutant organics to once per NPDES permit cycle. Therefore no final effluent samples for priority pollutant organics were collected or analyzed for this period.

Cyanide
All effluent cyanide results were reported as DNQ values with a reporting limit of 3.0µg/L or non-detect at the method detection limit.

Priority Pollutant Metals
All priority pollutant metals were measured at concentrations characteristic of the effluent discharged by this Facility for this monitoring period. Priority pollutant metals detected and reported in the effluent were below NPDES permit limitations.

All detectable concentrations are below applicable Water Quality Criteria or Objectives.

C. BIOSOLIDS DISCUSSION

The concurrent collection of the Wastewater Facility's Biosolids with influent and effluent sampling occurred on August 1, 2017. Twenty sample aliquots were collected, composited and subsequently analyzed for priority pollutant contaminants by contract laboratory services.

Semi-volatile Organic Compounds (EPA8270)
Bis(2-ethylhexyl) phthalate was detected and reported as a DNQ value at 3.6mg/Kg. All other analytical results for semi-volatile organics were reported as **non-detect** at the method detection limit.

Volatile Organic Compounds (EPA8260)
All analytical results for volatile organics were reported as **non-detect** at the method detection limit.

Polychlorinated Biphenyls-Aroclors (EPA8082)
Analytical results of PCB Aroclors (EPA Method 8082) were all reported as **non-detect** at the method detection limit.

Organochlorine Pesticides (EPA8081)
Organochlorine pesticides (EPA Method 8081) analysis resulted in detected and reported results for **4,4'-DDE at 0.070mg/Kg** and **4,4'-DDT as a DNQ value at 0.0079mg/Kg**. Both results are well below TTLC levels. All other components were reported as **non-detect** at the method detection limit.

Priority Pollutant Metals
Metals analysis of the biosolids resulted in additional Soluble Threshold Limit Concentration (STLC) testing for **chromium** and **copper**. The subsequent STLC values were determined to be below any actionable levels. No priority pollutant metals were detected in concentrations that would adversely affect Class B biosolids disposal options.

QA/QC CERTIFICATION STATEMENT

Quality Assurance/Quality Control validation data was reviewed for each of the analytical measurements performed and deemed acceptable. Acceptance criteria were established using methodologies from Standard Methods for the Examination of Water and Wastewater, EPA references (40 CFR 136, EPA SW-846, EPA 600/4-79/020), or as specified by the California Environmental Laboratory Accreditation Program of the State Water Resources Board.

Noel Enoki
Environmental Laboratory Manager

Appendix I

Appendix I - San Jose / Santa Clara Water Pollution Control Plant

Priority Pollutant Metals

DATE	As (influent)	As (effluent)	Cd (influent)	Cd(effluent)	Cr (influent)	Cr (effluent)	Cu (influent)	Cu (effluent)	Pb (influent)	Pb (effluent)	Hg (influent)	Hg (effluent)	Ni (influent)	Ni (effluent)	Se (influent)	Se (effluent)	Ag (influent)	Ag (effluent)	Zn (influent)	Zn (effluent)	Cyanide (influent)	Cyanide (effluent)
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
1/4/2017	1.91	0.98	DNQ0.13	ND	5.84	0.36	165	2.80	2.19	DNQ0.090	0.185	0.00113	8.28	4.75	1.5	0.37	0.59	ND	162	19.8	ND	ND
2/2/2017	1.88	1.14	ND	ND	5.07	0.4	139	2.17	2.24	DNQ0.077	0.112	0.00124	8.54	4.60	2.58	0.78	0.44	ND	163	24.6	DNQ1.0	ND
3/7/2017	2.14	0.96	DNQ0.14	ND	4.61	0.39	170	3.84	5.40	0.13	0.095	0.00093	8.02	4.64	2.76	0.91	0.44	ND	153	22.9	DNQ1.2	DNQ0.86
4/3/2017	2.08	0.78	DNQ0.16	ND	5.22	0.44	124	3.05	2.19	DNQ0.090	0.0537	0.00116	14.1	5.92	2.98	0.66	DNQ0.33	ND	172	22.1	DNQ1.3	ND
4/30/2017	1.54	n.a.	DNQ0.12	n.a.	5.40	n.a.	104	n.a.	2.75	n.a.	n.a.	n.a.	7.72	n.a.	n.a.	n.a.	0.40	n.a.	189	n.a.	n.a.	n.a.
5/1/2017	2.02	0.92	DNQ0.28	ND	6.60	0.41	126	3.85	2.50	0.11	0.130	0.00119	19.4	4.94	2.24	0.62	0.51	ND	220	17.6	DNQ1.4	ND
5/2/2017	2.28	n.a.	DNQ0.20	n.a.	7.52	n.a.	145	n.a.	3.14	n.a.	n.a.	n.a.	9.49	n.a.	n.a.	n.a.	0.66	n.a.	223	n.a.	n.a.	n.a.
6/1/2017	1.61	0.89	DNQ0.15	ND	6.85	0.54	171	3.36	7.51	0.11	0.136	0.00135	9.53	4.72	2.23	0.60	0.55	ND	194	23.4	DNQ1.7	ND
7/6/2017	2.09	0.83	DNQ0.22	ND	7.07	0.71	155	2.90	2.80	DNQ0.067	0.111	0.00134	9.52	4.65	2.08	0.48	0.55	ND	208	19.1	DNQ1.8	DNQ1.0
8/1/2017	2.15	0.88	DNQ0.23	ND	5.38	0.56	127	3.26	3.04	DNQ0.096	0.154	0.00118	10.7	4.44	2.26	0.43	0.67	ND	189	21.0	DNQ0.92	DNQ1.3
9/6/2017	1.95	0.92	DNQ0.17	DNQ0.026	4.76	0.58	111	3.45	2.68	DNQ0.077	0.123	0.00134	7.58	4.36	2.16	0.44	0.50	ND	197	21.5	4.8	DNQ1.9
10/3/2017	2.39	0.77	DNQ0.17	ND	4.94	0.44	125	2.94	3.00	DNQ0.057	0.165	0.00116	7.01	3.42	1.95	0.38	0.76	ND	180	22.8	DNQ1.5	DNQ1.8
11/1/2017	2.15	0.96	DNQ0.14	ND	6.69	0.46	178	3.05	2.84	DNQ0.065	0.142	0.00119	9.17	4.36	2.31	0.44	0.71	ND	207	22.5		ND
12/4/2017	1.98	1.04	DNQ0.17	ND	5.21	0.39	108	3.20	1.86	DNQ0.065	0.107	0.00113	8.63	4.28	2.17	0.60	0.51	ND	169	18.4	DNQ1.5	ND

n.a. = not available

RAW DATA

[available upon request]

Semi-Annual Industrial User Violation Report

San José-Santa Clara Regional Wastewater Facility

Reporting Period 7/1/2017 to 12/31/2017

Facility Name and Address	Semi-Annual Compliance Status				Date Violation occurred	Taken By POTW/ IU/ OTHER	Para-meter	Samples in Violation				Enf. Act.	Comments on Follow up, Corrective, or Enforcement Action Taken
	Current		Previous					Reported Level (mg/L)		Discharge Limit (mg/L)			
	Q4 2017	Q3 2017	Q2 2017	Q1 2017				Max	Avg	Federal Max Avg	Local Max Avg		
A & E Anodizing 652 Charles St, Suite A San Jose, CA 95112 SJ-314B **Flow =** 1,154 40 CFR 433.17 Subpart A	IF/ IL	CC	NS	IF/ IL	10/12/2017	OTHER						WN	The violation was for failing to comply with a permit condition – collecting samples at the appropriate sample frequency. The cause of the violation was negligence by the Industrial User (IU). The IU responded to the violation by implementing calendar reminders to collect samples at the appropriate times.
Amalar, Inc. 2317 Calle de Luna Santa Clara, CA 95054 SC-134B **Flow =** 124 40 CFR 433.17 Subpart A	IF/ IL	CC	NS	SNF/ SNL	10/13/2017	OTHER						NV	The violation was for failing to comply with a permit condition – collecting samples at appropriate sample frequency. The cause of the violation was due to employee error. The IU responded to the violation by developing and updating Standard Operating Procedures (SOPs) for timely submittal of Self-Monitoring Reports (SMR). See 11/30/2017 Compliance Meeting for additional details.
												CM	At a Compliance Meeting on 11/30/2017, the violations and Compliance Agreement were discussed. The IU responded to the violations by developing and updating SOPs and submitting training logs.

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	Current		Previous					Reported Level (mg/L)		Discharge Limit (mg/L)			
	Q4 2017	Q3 2017	Q2 2017	Q1 2017				Max	Avg	Federal Max Avg	Local Max Avg		
Amex Plating, Inc. 3333 Woodward Ave Santa Clara, CA 95054 SC-182B **Flow =** 526 40 CFR 433.17 Subpart A	CC	IF/ IL	CC	IF/ IL	7/31/2017	IU	Zn	1.69		1.48		WN	The violations were for exceeding the federal monthly average zinc concentration limit and failure to report the violation. The IU failed to report the zinc violation within 24 hours. The federal monthly average concentration limit violation was an average of one sample. The cause of the violation was determined to be a faulty pH probe. The IU responded to the violation by replacing the pH meter and a metals colorimetric analyzer. The results of subsequent samples collected by the City on 10/13/2017 and collected by the IU on 10/20/2017 were in compliance.

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	Current		Previous					Reported Level (mg/L)		Discharge Limit (mg/L)			
	Q4 2017	Q3 2017	Q2 2017	Q1 2017				Max	Avg	Federal Max Avg	Local Max Avg		
Amex Plating, Inc. 3333 Woodward Ave Santa Clara, CA 95054 SC-182B **Flow =** 526 40 CFR 433.17 Subpart A	CC	IF/ IL	CC	IF/ IL	10/3/2017	OTHER						WN	The violations were for exceeding the federal monthly average zinc concentration limit and failure to report the violation. The IU failed to report the zinc violation within 24 hours. The federal monthly average concentration limit violation was an average of one sample. The cause of the violation was determined to be a faulty pH probe. The IU responded to the violation by replacing the pH meter and a metals colorimetric analyzer. The results of subsequent samples collected by the City on 10/13/2017 and collected by the IU on 10/20/2017 were in compliance.

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	Current		Previous					Reported Level (mg/L)		Discharge Limit (mg/L)			
	Q4 2017	Q3 2017	Q2 2017	Q1 2017				Max	Avg	Federal Max Avg	Local Max Avg		
APCT, Inc. 3495 De la Cruz Blvd Santa Clara, CA 95054 SC-434A **Flow =** 64,960 40 CFR 433.17 Subpart A	CC	IL	IL	CC	12/23/2016	OTHER	pH	5.2 (min)			6.0 (min)	NV	The violations were for failing to meet the local pH limit, as noted on the IU's pH chart recorder, and failure to report the violations. The 15 minute and three hour pH violations were identified during an inspection on 6/28/2017. The IU failed to report the pH violations within 24 hours. The cause of the violations was determined to be the failure of a recently installed caustic injection system. The IU responded to the violations by fixing the treatment system malfunctions and adjusting the mixing mechanism in the final neutralization tank. Successive copies of the pH monitoring records submitted by the IU on 7/21/2017 were in compliance.

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	Current		Previous					Reported Level (mg/L)		Discharge Limit (mg/L)			
	Q4 2017	Q3 2017	Q2 2017	Q1 2017				Max	Avg	Federal Max Avg	Local Max Avg		
APCT, Inc. 3495 De la Cruz Blvd Santa Clara, CA 95054 SC-434A **Flow =** 64,960 40 CFR 433.17 Subpart A	CC	IL	IL	CC	6/3/2017	OTHER	pH	12.8			<12.5	NV	The violations were for failing to meet the local pH limit, as noted on the IU's pH chart recorder, and failure to report the violations. The 15 minute and three hour pH violations were identified during an inspection on 6/28/2017. The IU failed to report the pH violations within 24 hours. The cause of the violations was determined to be the failure of a recently installed caustic injection system. The IU responded to the violations by fixing the treatment system malfunctions and adjusting the mixing mechanism in the final neutralization tank. Successive copies of the pH monitoring records submitted by the IU on 7/21/2017 were in compliance.

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	Current		Previous					Reported Level (mg/L)		Discharge Limit (mg/L)			
	Q4 2017	Q3 2017	Q2 2017	Q1 2017				Max	Avg	Federal Max / Avg	Local Max / Avg		
APCT, Inc. 3495 De la Cruz Blvd Santa Clara, CA 95054 SC-434A **Flow =** 64,960 40 CFR 433.17 Subpart A	CC	IL	IL	CC	6/28/2017	OTHER						NV	The violations were for failing to meet the local pH limit, as noted on the IU's pH chart recorder, and failure to report the violations. The 15 minute and three hour pH violations were identified during an inspection on 6/28/2017. The IU failed to report the pH violations within 24 hours. The cause of the violations was determined to be the failure of a recently installed caustic injection system. The IU responded to the violations by fixing the treatment system malfunctions and adjusting the mixing mechanism in the final neutralization tank. Successive copies of the pH monitoring records submitted by the IU on 7/21/2017 were in compliance.

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	Current		Previous					Reported Level (mg/L)		Discharge Limit (mg/L)			
	Q4 2017	Q3 2017	Q2 2017	Q1 2017				Max	Avg	Federal Max Avg	Local Max Avg		
APCT, Inc. 3495 De la Cruz Blvd Santa Clara, CA 95054 SC-434A **Flow =** 64,960 40 CFR 433.17 Subpart A	CC	IL	IL	CC	9/10/2017	OTHER	pH	4.8 (min)		5.0 (min)	6.0 (min)	NV	The violations were for failing to meet the federal and local pH limits, as noted on the IU's pH chart recorder, and failure to report the violation. The two minute pH violation was reported by the IU on 9/21/2017. The IU failed to report the pH violations within 24 hours. The cause of the violation was determined to be an overheated fuse which controls the mixers. The IU responded to the violation by adding a heat dissipation device to the fuse box to preventing overheating. Successive copies of the pH monitoring records submitted by the IU on 10/19/2017 were in compliance.

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	Current		Previous					Reported Level (mg/L)		Discharge Limit (mg/L)			
	Q4 2017	Q3 2017	Q2 2017	Q1 2017				Max	Avg	Federal Max Avg	Local Max Avg		
APCT, Inc. 3495 De la Cruz Blvd Santa Clara, CA 95054 SC-434A **Flow =** 64,960 40 CFR 433.17 Subpart A	CC	IL	IL	CC	9/21/2017	OTHER						NV	The violations were for failing to meet the federal and local pH limits, as noted on the IU's pH chart recorder, and failure to report the violation. The two minute pH violation was reported by the IU on 9/21/2017. The IU failed to report the pH violations within 24 hours. The cause of the violation was determined to be an overheated fuse which controls the mixers. The IU responded to the violation by adding a heat dissipation device to the fuse box to preventing overheating. Successive copies of the pH monitoring records submitted by the IU on 10/19/2017 were in compliance.
Applied Anodize, Inc. 622 Charcot Ave, Suite E San Jose, CA 95131 SJ-025B **Flow =** 596 (on 08/09/16) 40 CFR 433.17 Subpart A	CC	IL	CC	CC	1/25/2017	OTHER	pH	5.6 (min)			6.0 (min)	WN	The violations were for failing to meet the local pH limit, as noted on the IU's pH chart recorder, and failure to report violations. The five minute pH violation was identified during an inspection on 8/16/2017. The IU failed to report the pH violation within 24 hours. The cause of the violation could not be determined. The IU responded to the violation by conducting an investigation. The IU has committed to timely notification of future violations. The pH monitoring record was also reviewed and no further violations were noted.

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	Current		Previous					Reported Level (mg/L)		Discharge Limit (mg/L)			
	Q4 2017	Q3 2017	Q2 2017	Q1 2017				Max	Avg	Federal Max Avg	Local Max Avg		
Applied Anodize, Inc. 622 Charcot Ave, Suite E San Jose, CA 95131 SJ-025B **Flow =** 596 (on 08/09/16) 40 CFR 433.17 Subpart A	CC	IL	CC	CC	8/16/2017	OTHER						WN	The violations were for failing to meet the local pH limit, as noted on the IU's pH chart recorder, and failure to report violations. The five minute pH violation was identified during an inspection on 8/16/2017. The IU failed to report the pH violation within 24 hours. The cause of the violation could not be determined. The IU responded to the violation by conducting an investigation. The IU has committed to timely notification of future violations. The pH monitoring record was also reviewed and no further violations were noted.

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	Current		Previous					Reported Level (mg/L)		Discharge Limit (mg/L)			
	Q4 2017	Q3 2017	Q2 2017	Q1 2017				Max	Avg	Federal Max / Avg	Local Max / Avg		
Arnold's Metal Finishing 805 Aldo Ave, Unit 104 Santa Clara, CA 95054 SC-369B **Flow =** 9,918 (on 06/21/17) 40 CFR 433.17 Subpart A	SNF/ IL	NS	CC	NS	11/28/2017	POTW	Ni	4.35		3.98	0.5	NV	The violations were for exceeding the federal monthly average, the federal daily maximum, and the local maximum allowable nickel concentration limits. The federal monthly average concentration limit violation was an average of one sample. The cause of the violations was determined to be inadequate wastewater treatment. The IU responded to the violations by updating wastewater SOPs. An inspection on 12/13/2017 verified the updated SOPs were being implemented. The results of subsequent samples collected by the IU on 12/15/2017 and collected by the City on 12/21/2017 were in compliance.

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	Current		Previous					Reported Level (mg/L)		Discharge Limit (mg/L)			
	Q4 2017	Q3 2017	Q2 2017	Q1 2017				Max	Avg	Federal Max Avg	Local Max Avg		
Arnold's Metal Finishing 805 Aldo Ave, Unit 104 Santa Clara, CA 95054 SC-369B **Flow =** 9,918 (on 06/21/17) 40 CFR 433.17 Subpart A	SNF/ IL	NS	CC	NS	11/30/2017	POTW	Ni	4.35		2.38		NV	The violations were for exceeding the federal monthly average, the federal daily maximum, and the local maximum allowable nickel concentration limits. The federal monthly average concentration limit violation was an average of one sample. The cause of the violations was determined to be inadequate wastewater treatment. The IU responded to the violations by updating wastewater SOPs. An inspection on 12/13/2017 verified the updated SOPs were being implemented. The results of subsequent samples collected by the IU on 12/15/2017 and collected by the City on 12/21/2017 were in compliance.

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	Current		Previous					Reported Level (mg/L)		Discharge Limit (mg/L)			
	Q4 2017	Q3 2017	Q2 2017	Q1 2017				Max	Avg	Federal Max Avg	Local Max Avg		
Beam On Technology 2318 Calle de Luna Santa Clara, CA 95054 SC-355B **Flow =** 74 40 CFR 433.17 Subpart A	NS	CC	IF/ IL	CC	6/19/2017	OTHER						NV CM	The violation was for failing to comply with permit conditions – collecting samples at appropriate sample frequency. The cause of the violation was determined to be negligence on the part of the IU. The IU responded to the violations by scheduling sample collection earlier in the monitoring period as verified during an inspection on 8/24/2017. See 8/3/2017 Compliance Meeting for additional details. At a Compliance Meeting on 8/3/2017, the violation and Compliance Agreement were discussed. The IU responded to the violation by retraining employees and developing SOPs for SMR completion and submittal.

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	Current		Previous					Reported Level (mg/L)	Discharge Limit (mg/L)		
	Q4 2017	Q3 2017	Q2 2017	Q1 2017				Max Avg	Federal Max Avg / Local Max Avg		
Clean Harbors San Jose, LLC 1021 Berryessa Rd San Jose, CA 95133 SJ-487A **Flow =** 11,097 40 CFR 437.47 Subpart D	IL	CC	CC	CC	10/12/2017	POTW	CN-T	2.78	0.5	NV	The violation was for exceeding the local maximum allowable total cyanide concentration limit. The cause of the violation is under investigation. The IU responded to the violation by investigating the source of the cyanide. The IU has added total cyanide pre-testing to each incoming load, has tested the treatment system's chemical reagents for cyanide, and is testing the treatment process for cyanide generation. An inspection on 12/13/2017 verified an investigation was underway. The results of a subsequent sample collected by the City on 11/17/2017 violated the local allowable total cyanide concentration limit. Samples collected by the IU on 12/6/2017 and 12/30/2017, and collected by the City on 12/19/2017 and 1/8/2018 were in compliance. A Compliance Meeting will be scheduled in the first quarter 2018.
										AC	$1000 fine issued for Exceeding Concentration Maximum per San Jose Municipal Code 15.14.585

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Semi-Annual Industrial User Violation Report

San José-Santa Clara Regional Wastewater Facility

Reporting Period 7/1/2017 to 12/31/2017

Facility Name and Address	Semi-Annual Compliance Status				Date Violation occurred	Taken By POTW/ IU/ OTHER	Para-meter	Samples in Violation				Enf. Act.	Comments on Follow up, Corrective, or Enforcement Action Taken
	Current		Previous					Reported Level (mg/L)		Discharge Limit (mg/L)			
	Q4 2017	Q3 2017	Q2 2017	Q1 2017				Max	Avg	Federal Max Avg	Local Max Avg		
Clean Harbors San Jose, LLC 1021 Berryessa Rd San Jose, CA 95133 SJ-487A **Flow =** 11,097 40 CFR 437.47 Subpart D	IL	CC	CC	CC	11/17/2017	POTW	CN-T	2.85		0.5		NV	The violation was for exceeding the local maximum allowable total cyanide concentration limit. The cause of the violation is under investigation. The IU responded to the violation by investigating the source of the cyanide. The IU has added total cyanide pre-testing to each incoming load, has tested the treatment system's chemical reagents for cyanide, and is testing the treatment process for cyanide generation. An inspection on 12/13/2017 verified an investigation was underway. The results of subsequent samples collected by the IU on 12/6/2017 and 12/30/2017, and collected by the City on 12/19/2017 and 1/8/2018 were in compliance. A Compliance Meeting will be scheduled in the first quarter 2018.
												AC	$1250 fine issued for Exceeding Concentration Maximum per San Jose Municipal Code 15.14.585
												CM	A Compliance Meeting will be scheduled in the first quarter of 2018. The IU will be required to respond to the violations and collect samples for three months. An inspection will be scheduled in the first quarter of 2018 to verify corrective actions.

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	Current		Previous					Reported Level (mg/L)	Discharge Limit (mg/L)			
	Q4 2017	Q3 2017	Q2 2017	Q1 2017				Max Avg	Federal Max Avg	Local Max Avg		
Eagle Tech, Inc. 2299 Ringwood Ave, Unit C-3 San Jose, CA 95131 SJ-520B **Flow =** 394 40 CFR 433.17 Subpart A	CC	IF/ IL	CC	CC	5/23/2017	OTHER	pH	4.0 (min)	5.0 (min)	6.0 (min)	NV	The violations were for failing to meet the federal and local pH limits, as noted on the IU's pH chart recorder, and failure to report violations. The three two minute pH violations were identified during an inspection on 8/18/2017. The IU failed to report the pH violations within 24 hours. The cause of the violations could not be determined. The IU responded to the violations by creating a log to document all anomalies. The pH chart recorder was also reviewed and no further violations were noted.
					7/14/2017	OTHER	pH	3.2 (min)	5.0 (min)	6.0 (min)	NV	The violations were for failing to meet the federal and local pH limits, as noted on the IU's pH chart recorder, and failure to report violations. The three two minute pH violations were identified during an inspection on 8/18/2017. The IU failed to report the pH violations within 24 hours. The cause of the violations could not be determined. The IU responded to the violations by creating a log to document all anomalies. The pH chart recorder was also reviewed and no further violations were noted.

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	Current		Previous					Reported Level (mg/L)		Discharge Limit (mg/L)			
	Q4 2017	Q3 2017	Q2 2017	Q1 2017				Max	Avg	Federal Max Avg	Local Max Avg		
Eagle Tech, Inc. 2299 Ringwood Ave, Unit C-3 San Jose, CA 95131 SJ-520B **Flow =** 394 40 CFR 433.17 Subpart A	CC	IF/ IL	CC	CC	7/17/2017	OTHER	pH	4.0 (min)		5.0 (min)	6.0 (min)	NV	The violations were for failing to meet the federal and local pH limits, as noted on the IU's pH chart recorder, and failure to report violations. The three two minute pH violations were identified during an inspection on 8/18/2017. The IU failed to report the pH violations within 24 hours. The cause of the violations could not be determined. The IU responded to the violations by creating a log to document all anomalies. The pH chart recorder was also reviewed and no further violations were noted.
					8/18/2017	OTHER						NV	The violations were for failing to meet the federal and local pH limits, as noted on the IU's pH chart recorder, and failure to report violations. The three two minute pH violations were identified during an inspection on 8/18/2017. The IU failed to report the pH violations within 24 hours. The cause of the violations could not be determined. The IU responded to the violations by creating a log to document all anomalies. The pH chart recorder was also reviewed and no further violations were noted.

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Reporting Period 7/1/2017 to 12/31/2017

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	Current		Previous					Reported Level (mg/L)		Discharge Limit (mg/L)			
	Q4 2017	Q3 2017	Q2 2017	Q1 2017				Max	Avg	Federal Max Avg	Local Max Avg		
ENS Technology LLC 3165 Molinaro St Santa Clara, CA 95054 SC-252A **Flow =** 1,301 40 CFR 433.17 Subpart A	CC	CC	CC	CC	8/31/2017	POTW	CN-T	0.70		0.65		VW	The violation was for exceeding the federal monthly average total cyanide concentration limit. The federal monthly average concentration limit violation was an average of one sample. The cause of the violation could not be determined. The IU responded to the violation by collecting additional in-house total cyanide samples. An inspection on 9/26/2017 verified the operators are properly trained and the treatment system is operating correctly. The results of subsequent samples collected by the City on 9/29/2017 and 11/30/2017, and collected by the IU on 10/6/2017 and 11/9/2017 were in compliance.
Gold Plating Services, Inc. 3475 Victor St, Unit C Santa Clara, CA 95054 SC-432Z **Flow** = 0 40 CFR 433.17 Subpart A	IL	IL	IL	IL	4/26/2017	OTHER						VW	The violation was for failing to comply with a permit condition – failure to establish and maintain water use logs. The cause of the violation was determined to be negligence on the part of the IU. During a follow-up inspection on 11/20/2017, it was noted that the logs had not been established, resulting in additional enforcement actions.

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Reporting Period 7/1/2017 to 12/31/2017

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	Current		Previous					Reported Level (mg/L)		Discharge Limit (mg/L)			
	Q4 2017	Q3 2017	Q2 2017	Q1 2017				Max	Avg	Federal Max Avg	Local Max Avg		
Gold Plating Services, Inc. 3475 Victor St, Unit C Santa Clara, CA 95054 SC-432Z **Flow** = 0 40 CFR 433.17 Subpart A	IL	IL	IL	IL	7/11/2017	OTHER						WN	The violation was for late submittal of a Zero Discharge Certification (ZDC) that was due on 6/30/2017, but was not received until 7/11/2017. The IU has committed to timely submittal of reports in the future.
					11/20/2017	OTHER						WN	The violation was for failing to comply with a permit condition – failure to establish and maintain water use logs. The cause of the violation was determined to be negligence on the part of the IU. The IU responded to the violation by establishing logs, as verified by the 12/15/2017 response letter.

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Reporting Period 7/1/2017 to 12/31/2017

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	Current		Previous					Reported Level (mg/L)		Discharge Limit (mg/L)			
	Q4 2017	Q3 2017	Q2 2017	Q1 2017				Max	Avg	Federal Max Avg	Local Max Avg		
Hane & Hane, Inc. dba University Plating 650 University Ave San Jose, CA 95110 SJ-028B **Flow =** 4,930 40 CFR 433.17 Subpart A	NS	CC	IF/ IL	CC	6/2/2017	OTHER						WN	The violation was for failing to comply with a permit condition – collecting samples at the appropriate sample frequency. The cause of the violation was determined to be negligence on the part of the IU. The IU responded to the violation by establishing an electronic SMR reminder.
Headway Technologies, Inc. STT Bldg 5 463 S Milpitas Blvd Milpitas, CA 95035 MI-118B **Flow =** 1,414 40 CFR 469 Subpart A 40 CFR 433.17 Subpart A	CC	CC	CC	CC	12/4/2017	OTHER	pH	3.3 (min)		5.0 (min)	6.0 (min)	WN	The violations were for failing to meet the federal and local pH limits, as noted on the IU's pH monitoring record. The three and one minute pH violations were reported by the IU on 12/4/2017 and 12/10/2017, respectively. The cause of the violations was determined to be a faulty pump in the acid waste neutralization system. The IU responded to the violations by replacing the faulty parts on 12/10/2017. Successive copies of the pH monitoring records submitted by the IU on 12/14/2017 were in compliance.

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	Current		Previous					Reported Level (mg/L)		Discharge Limit (mg/L)			
	Q4 2017	Q3 2017	Q2 2017	Q1 2017				Max	Avg	Federal Max Avg	Local Max Avg		
Headway Technologies, Inc. STT Bldg 5 463 S Milpitas Blvd Milpitas, CA 95035 MI-118B **Flow =** 1,414 40 CFR 469 Subpart A 40 CFR 433.17 Subpart A	CC	CC	CC	CC	12/10/2017	OTHER	pH	4.7 (min)		5.0 (min)	6.0 (min)	WN	The violations were for failing to meet the federal and local pH limits, as noted on the IU's pH monitoring record. The three and one minute pH violations were reported by the IU on 12/4/2017 and 12/10/2017, respectively. The cause of the violations was determined to be a faulty pump in the acid waste neutralization system. The IU responded to the violations by replacing the faulty parts on 12/10/2017. Successive copies of the pH monitoring records submitted by the IU on 12/14/2017 were in compliance.
International Disposal Corporation, Inc 700 Los Esteros Rd San Jose, CA 95134 SJ-437A **Flow =** 33,484 SIU based on flow	CC	CC	CC	CC	10/24/2017	IU	Cu	4.5			2.3	VW	The violation was for exceeding local maximum allowable copper concentration limit. The cause of the violation was not determined. The IU responded to the violation by reviewing the incoming wastes for changes, and checking the receiving, inspection, and manipulation practices. An inspection on 12/21/2017 verified the site's investigation. The results of subsequent samples collected by the IU on 11/30/2017 and 12/26/2017, and collected by the City on 12/19/2017 were in compliance.

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	Current		Previous					Reported Level (mg/L)		Discharge Limit (mg/L)			
	Q4 2017	Q3 2017	Q2 2017	Q1 2017				Max	Avg	Federal Max Avg	Local Max Avg		
Intevac, Inc. 3580 Bassett St Santa Clara, CA 95054-2704 SC-259B **Flow =** 222 (on 09/22/16) 40 CFR 469 Subpart A	NS	IL	NS	CC	9/12/2017	OTHER						NV	The violations were for failing to meet the federal and local pH limits, as noted on the IU's pH monitoring record and protection from accidental discharge. The four minute pH violation was reported by the IU on 9/12/2017. The cause of the violations was determined to be negligence on the part of the IU. The IU responded to the violations by adjusting internal procedures so only properly trained technicians operate the treatment system as verified during an inspection on 9/18/2017. Successive copies of the pH monitoring records submitted by the IU on 10/10/2017 were in compliance.

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	Current		Previous					Reported Level (mg/L)		Discharge Limit (mg/L)			
	Q4 2017	Q3 2017	Q2 2017	Q1 2017				Max	Avg	Federal Max Avg	Local Max Avg		
Intevac, Inc. 3580 Bassett St Santa Clara, CA 95054-2704 SC-259B **Flow =** 222 (on 09/22/16) 40 CFR 469 Subpart A	NS	IL	NS	CC	9/12/2017	OTHER	pH	4.75 (min)		5.0 (min)	6.0 (min)	NV	The violations were for failing to meet the federal and local pH limits, as noted on the IU's pH monitoring record and protection from accidental discharge. The four minute pH violation was reported by the IU on 9/12/2017. The cause of the violations was determined to be negligence on the part of the IU. The IU responded to the violations by adjusting internal procedures so only properly trained technicians operate the treatment system as verified during an inspection on 9/18/2017. Successive copies of the pH monitoring records submitted by the IU on 10/10/2017 were in compliance.
Lenthor Engineering, Inc. 311 Turquoise St Milpitas, CA 95035 MI-141B **Flow =** 25,374 40 CFR 433.17 Subpart A	CC	CC	IF/ IL	IL	5/16/2017	OTHER						NV	The violation was for failing to comply with a permit condition – failure to notify of a significant change. During an inspection on 5/16/2017, the IU was observed performing a gold cyanide plating process. The IU responded to the violation by submitting a Wastewater Discharge Permit Application on 10/4/2017. The IU was issued a revised Wastewater Discharge Permit MI-141B on 12/11/2017.

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	Current		Previous					Reported Level (mg/L)		Discharge Limit (mg/L)			
	Q4 2017	Q3 2017	Q2 2017	Q1 2017				Max	Avg	Federal Max Avg	Local Max Avg		
List Biological Laboratories, Inc 540 Division St Campbell, CA 95008 WV-064B **Flow =** 565 (on 05/10/17) 40 CFR 439 Subpart A	CC	NS	IF/ IL	NS	5/23/2017	OTHER						WN	The violation was for failure to provide pretreatment as reported by the IU on 7/20/2017. The cause of the violation was determined to be improper training of personnel. The IU responded to the violation by retraining the laboratory personnel, updating the SOP and discharge log to include the allowable pH range, and posting the allowable pH range next to each neutralization sink, as verified during an inspection on 8/31/2017.
Lumileds LLC 370 W Trimble Rd San Jose, CA 95131 SJ-528B **Flow =** 168,976 (on 06/02/17) 40 CFR 469 Subpart A	NS	IL	CC	CC	7/1/2017	OTHER	pH	5.6 (min)			6.0 (min)	VW	The violation was for failing to meet the local pH limit, as noted on the IU's pH chart recorder. The 20 minute pH violation was reported by the IU on 7/2/2017. The cause of the violation was determined to be a faulty pump in the wastewater treatment system. The IU responded to the violation by repairing the pump. The pH monitoring record was reviewed and no further violations were noted.

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	Current		Previous					Reported Level (mg/L)		Discharge Limit (mg/L)			
	Q4 2017	Q3 2017	Q2 2017	Q1 2017				Max	Avg	Federal Max Avg	Local Max Avg		
Mannington Mills dba Burke Industries 2250 S 10th St San Jose, CA 95112 SJ-594B **Flow =** 3 40 CFR 428 Subpart G	IL	CC	CC	CC	10/26/2017	POTW	O&G	409			150	WN	The violation was for exceeding the local maximum allowable oil and grease concentration limit. The cause of the violation was determined to be a change in plumbing associated with the treatment system. The IU responded to the violation by cleaning and inspecting the oil-water separator and installing a flow-control valve. An inspection on 1/17/2018 verified the installation of the flow-control valve. The results of subsequent samples collected by the IU on 12/6/2017 and collected by the City on 12/13/2017 were in compliance.
Metal Finishing Solutions, Inc. 870 Comstock St Santa Clara, CA 95054 SC-438B **Flow =** 425 40 CFR 433.17 Subpart A	SNF/ SNL	IF/ IL	CC	CC	6/28/2017	OTHER	pH	5.6 (min)			6.0 (min)	NV	The violations were for failing to meet the local pH limit, as noted on the IU's pH chart recorder, and failure to report violations. The eight minute pH violation was identified during an inspection on 8/3/2017. The IU failed to report the pH violations within 24 hours. The IU failed to respond to enforcement, resulting in additional enforcement actions.

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	Current		Previous					Reported Level (mg/L)		Discharge Limit (mg/L)			
	Q4 2017	Q3 2017	Q2 2017	Q1 2017				Max	Avg	Federal Max Avg	Local Max Avg		
Metal Finishing Solutions, Inc. 870 Comstock St Santa Clara, CA 95054 SC-438B **Flow =** 425 40 CFR 433.17 Subpart A	SNF/ SNL	IF/ IL	CC	CC	7/7/2017	OTHER						WN	The violations were for failing to comply with a permit condition – collecting samples at appropriate sample frequency and submitting an incomplete SMR. The cause of the violations was determined to be negligence on the part of the IU. The IU responded to the violations by scheduling sample collection earlier in the monitoring period.
					8/3/2017	OTHER						NV	The violations were for failing to meet the local pH limit, as noted on the IU's pH chart recorder, and failure to report violations. The eight minute pH violation was identified during an inspection on 8/3/2017. The IU failed to report the pH violations within 24 hours. The IU failed to respond to enforcement, resulting in additional enforcement actions.

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	Current		Previous					Reported Level (mg/L)		Discharge Limit (mg/L)			
	Q4 2017	Q3 2017	Q2 2017	Q1 2017				Max	Avg	Federal Max Avg	Local Max Avg		
Metal Finishing Solutions, Inc. 870 Comstock St Santa Clara, CA 95054 SC-438B **Flow =** 425 40 CFR 433.17 Subpart A	SNF/ SNL	IF/ IL	CC	CC	8/4/2017	OTHER						WN	The violation was for failure to submit a Slug Discharge Prevention Plan that was due on 7/12/2017, but was not yet received. The cause of the violation was negligence on the part of the IU. The IU failed to respond to the enforcement, resulting in additional enforcement actions.
					8/31/2017	OTHER						WN	The violations were for failing to comply with a permit condition – collecting samples at appropriate sample frequency and submitting an incomplete SMR. The cause of the violations was determined to be negligence on the part of the IU. The IU responded to the violations by scheduling sample collection earlier in the monitoring period.

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Semi-Annual Industrial User Violation Report

San José-Santa Clara Regional Wastewater Facility

Reporting Period 7/1/2017 to 12/31/2017

Facility Name and Address	Semi-Annual Compliance Status				Date Violation occurred	Taken By POTW/ IU/ OTHER	Para-meter	Samples in Violation				Enf. Act.	Comments on Follow up, Corrective, or Enforcement Action Taken
	Current		Previous					Reported Level (mg/L)		Discharge Limit (mg/L)			
	Q4 2017	Q3 2017	Q2 2017	Q1 2017				Max	Avg	Federal Max Avg	Local Max Avg		
Metal Finishing Solutions, Inc. 870 Comstock St Santa Clara, CA 95054 SC-438B **Flow =** 425 40 CFR 433.17 Subpart A	SNF/ SNL	IF/ IL	CC	CC	10/24/2017	OTHER						NV	The violation was for late submittal of an enforcement action response that was due on 8/22/17, but was not yet received, resulting in a Compliance Meeting. See 11/30/2017 Compliance Meeting for additional details.

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	Current		Previous					Reported Level (mg/L)		Discharge Limit (mg/L)			
	Q4 2017	Q3 2017	Q2 2017	Q1 2017				Max	Avg	Federal Max Avg	Local Max Avg		
Metal Finishing Solutions, Inc. 870 Comstock St Santa Clara, CA 95054 SC-438B **Flow =** 425 40 CFR 433.17 Subpart A	SNF/ SNL	IF/ IL	CC	CC	11/2/2017	OTHER						NV CM	The violation was for late submittal of a Slug Discharge Prevention Plan that was due on 7/12/2017, but was not yet received, resulting in a Compliance Meeting. See 11/30/2017 Compliance Meeting for additional details. At a Compliance Meeting on 11/30/2017, the violations and Compliance Agreement were discussed. The IU responded to the violations by committing to submitting responses to all enforcement actions, developing a Slug Discharge Prevention Plan, and developing SOPs to address all permit requirements. In addition to these requirements, the IU was required to submit a letter identifying parties within the organization responsible for addressing all permit requirements.

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	Current		Previous					Reported Level (mg/L)		Discharge Limit (mg/L)			
	Q4 2017	Q3 2017	Q2 2017	Q1 2017				Max	Avg	Federal Max Avg	Local Max Avg		
Momentum Technologies Corp. dba Momentum Metal Finishing 1232 Memorex Dr Santa Clara, CA 95050 SC-381B **Flow =** 706 40 CFR 433.17 Subpart A	NS	IF/ IL	CC	IF/ IL	9/14/2017	OTHER						WN	The violation was for failing to comply with a permit condition – collecting samples at appropriate sample frequency. The cause of the violation was determined to be negligence on the part of the IU. The IU responded to the violation by reviewing permit monitoring periods and due dates and adjusting contract lab sampling frequencies. The IU has committed to timely submittal of reports in the future.
OLS Energy-Agnews, Inc. 3800 Cisco Way San Jose, CA 95134 SJ-388B **Flow =** 6,141 40 CFR 423	IL	CC	CC	CC	10/24/2017	OTHER						VW	The violation was for failing to comply with a permit condition – failure to maintain effluent flow meter. The cause of the violation was determined to be negligence on the part of the IU. The IU responded to the violation by replacing the flow meter and scheduling annual maintenance by an outside contractor, as verified during an inspection on 10/24/2017.

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	Current		Previous					Reported Level (mg/L)		Discharge Limit (mg/L)			
	Q4 2017	Q3 2017	Q2 2017	Q1 2017				Max	Avg	Federal Max Avg	Local Max Avg		
Prudential Overall Supply 1429 N Milpitas Blvd Milpitas, CA 95035 MI-040B **Flow =** 49,909 SIU based on flow	CC	CC	IL	IL	6/22/2017	POTW	O&G	235			150	NV	The violation was for exceeding the local maximum allowable oil and grease concentration limit. The cause of the violation could not be determined. The IU responded to the violation by sorting workloads to even out pollutant loading to the treatment system. An inspection on 8/14/2017 verified the new protocol for sorting incoming laundry was implemented. The results of subsequent samples collected by the IU on 7/27/2017 and collected by the City on 9/14/2017 were in compliance. See 9/7/2017 Compliance Meeting for additional details.

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	Current		Previous					Reported Level (mg/L)		Discharge Limit (mg/L)			
	Q4 2017	Q3 2017	Q2 2017	Q1 2017				Max	Avg	Federal Max	Federal Avg	Local Max	Local Avg		
												CM	At a Compliance Meeting on 9/7/2017, the violations and Compliance Agreement were discussed. The IU responded to the violations by making process changes such as equalizing the wastestreams being introduced to the treatment plant, conducting a treatability study and adjusting the treatment process to allow for enhanced treatment and collecting samples for three months – October 2017, November 2017, and December 2017. In addition to these requirements, the IU was required to submit a SOP detailing specific changes to screening of new customer waste streams and the impacts of additional loading to the treatment system, submit SOPs for enhancing the operation and maintenance of the system and training logs for all operators. The results of subsequent samples collected by the City on 9/14/2017 and collected by the IU on 10/20/2017, 11/7/2017, and 12/14/2017 were in compliance.

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	Current		Previous					Reported Level (mg/L)		Discharge Limit (mg/L)			
	Q4 2017	Q3 2017	Q2 2017	Q1 2017				Max	Avg	Federal Max Avg	Local Max Avg		
Reed & Graham, Inc. 690 Sunol St San Jose, CA 95126 SJ-461B **Flow =** 30 (estimated) 40 CFR 443 Subpart A	NS	IL	CC	NS	7/6/2017	OTHER						VW	The violation was for late submittal of a ZDC that was due on 6/30/2017, but was not received until 7/6/2017. The IU has committed to timely submittal of reports in the future.
Silicon Microstructures 1701 McCarthy Blvd Milpitas, CA 95035 MI-108B **Flow =** 12,653 (on 06/07/17) 40 CFR 469 Subpart A	CC	IF/ IL	CC	NS	8/3/2017	OTHER	pH	5.0 (min)			6.0 (min)	NV	The violations were for failing to meet the federal and local pH limits, as noted on the IU's pH chart recorder, and failure to report violations. The 107 minute and 3.38 hour pH violations were identified during an inspection on 9/13/2017. The IU failed to report the pH violations within 24 hours. The cause of the violations was determined to be an equipment malfunction. The pH monitoring record was also reviewed and no further violations were noted. The IU has scheduled to replace the faulty equipment in the first quarter of 2018 and has committed to timely notifications of future violations. See 10/25/2017 Compliance Meeting for additional details.

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	Current		Previous					Reported Level (mg/L)		Discharge Limit (mg/L)			
	Q4 2017	Q3 2017	Q2 2017	Q1 2017				Max	Avg	Federal Max Avg	Local Max Avg		
Silicon Microstructures 1701 McCarthy Blvd Milpitas, CA 95035 MI-108B **Flow =** 12,653 (on 06/07/17) 40 CFR 469 Subpart A	CC	IF/ IL	CC	NS	8/31/2017	OTHER	pH	4.5 (min)		5.0 (min)	6.0 (min)	NV	The violations were for failing to meet the federal and local pH limits, as noted on the IU's pH chart recorder, and failure to report violations. The 107 minute and 3.38 hour pH violations were identified during an inspection on 9/13/2017. The IU failed to report the pH violations within 24 hours. The cause of the violations was determined to be an equipment malfunction. The pH monitoring record was also reviewed and no further violations were noted. The IU has scheduled to replace the faulty equipment in the first quarter of 2018 and has committed to timely notifications of future violations. See 10/25/2017 Compliance Meeting for additional details.

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	Current		Previous					Reported Level (mg/L)		Discharge Limit (mg/L)			
	Q4 2017	Q3 2017	Q2 2017	Q1 2017				Max	Avg	Federal Max Avg	Local Max Avg		
Silicon Microstructures 1701 McCarthy Blvd Milpitas, CA 95035 MI-108B **Flow =** 12,653 (on 06/07/17) 40 CFR 469 Subpart A	CC	IF/ IL	CC	NS	9/13/2017	OTHER						NV CM	The violations were for failing to meet the federal and local pH limits, as noted on the IU's pH chart recorder, and failure to report violations. The 107 minute and 3.38 hour pH violations were identified during an inspection on 9/13/2017. The IU failed to report the pH violations within 24 hours. The cause of the violations was determined to be an equipment malfunction. The pH monitoring record was also reviewed and no further violations were noted. The IU has scheduled to replace the faulty equipment in the first quarter of 2018 and has committed to timely notifications of future violations. See 10/25/2017 Compliance Meeting for additional details. At a Compliance Meeting on 10/25/2017, the violations and Compliance Agreement were discussed. The IU responded to the violations by submitting a timeline for proposed installation of a sample point, replacement of faulty equipment, and adding power protection measures for the pH alarm system; submitting SOPs for operation and review of pH records and alarms; and training logs of the aforementioned SOPs.

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	Current		Previous					Reported Level (mg/L)		Discharge Limit (mg/L)			
	Q4 2017	Q3 2017	Q2 2017	Q1 2017				Max	Avg	Federal Max Avg	Local Max Avg		
Swift Metal Finishing 1161 Richard Ave Santa Clara, CA 95050 SC-035B **Flow =** 1,664 40 CFR 433.17 Subpart A	IL	CC	CC	CC	11/9/2017	POTW	Ni	0.67		0.5		VW	The violation was for exceeding the local maximum allowable nickel concentration limit. The cause of the violation was determined to be the result of excess nickel drag-out entering the treatment system from the nickel acetate seal process. The IU responded to the violation by servicing the treatment system on 12/1/2017. An inspection on 1/18/2018 verified the service performed on the treatment system. The results of the subsequent sample collected by the City on 12/7/2017 was not in compliance, resulting in additional enforcement actions. The results of subsequent samples collected by the IU on 12/11/2017, 12/13/2017, and 12/14/2017 were in compliance.

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	Current		Previous					Reported Level (mg/L)	Discharge Limit (mg/L)		
	Q4 2017	Q3 2017	Q2 2017	Q1 2017				Max Avg	Federal Max Avg / Local Max Avg		
Swift Metal Finishing 1161 Richard Ave Santa Clara, CA 95050 SC-035B **Flow =** 1,664 40 CFR 433.17 Subpart A	IL	CC	CC	CC	12/7/2017	POTW	Ni	0.52	0.5	WN	The violation was for exceeding the local maximum allowable nickel concentration limit. The cause of the violation was determined to be the result of excess nickel drag-out entering the treatment system from the nickel acetate seal process. The IU responded to the violation by verbally reminding operators of proper SOPs for the nickel acetate seal line. An inspection on 1/18/2018 verified the new procedures for rinse tank operation. The result of a subsequent sample collected by the IU on 1/31/2018 was in compliance. The result of a subsequent sample collected by the City on 2/7/2017 was not in compliance, resulting in additional enforcement actions.

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	Current		Previous					Reported Level (mg/L)		Discharge Limit (mg/L)			
	Q4 2017	Q3 2017	Q2 2017	Q1 2017				Max	Avg	Federal Max Avg	Local Max Avg		
T. Marzetti Co.- West 876 Yosemite Dr Milpitas, CA 95035 MI-004C **Flow =** 34,579 SIU based on flow	IL	IL	IL	CC	8/16/2017	POTW	O&G	240		150		NV	The violation was for exceeding the local maximum allowable oil and grease concentration limit. The cause of the violation was determined to be a leaky pump valve. The IU responded to the violation by replacing the pump valve. An inspection on 10/10/2017 verified the pump valve had been replaced and calibrated. The results of a subsequent sample collected by the IU on 10/6/2017 was in compliance. The result of subsequent sample collected by the City on 10/13/2017 was not in compliance, resulting in additional enforcement actions.

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	Current		Previous					Reported Level (mg/L)	Discharge Limit (mg/L)		
	Q4 2017	Q3 2017	Q2 2017	Q1 2017				Max Avg	Federal Max Avg / Local Max Avg		
T. Marzetti Co.- West 876 Yosemite Dr Milpitas, CA 95035 MI-004C **Flow =** 34,579 SIU based on flow	IL	IL	IL	CC	10/13/2017	POTW	O&G	1,340	150	NV CM	The violation was for exceeding the local maximum allowable oil and grease concentration limit. The cause of the violation was determined to be treatment system failures. The IU responded to the violation by implementing capital improvements to the treatment system. The results of subsequent samples collected by the IU on 10/6/2017, 10/12/2017, 10/16/2017, 10/19/2017, 10/23/2017, 10/30/2017, and 11/8/2017 were in compliance. See 12/13/2017 Compliance Meeting for additional details. At a Compliance Meeting on 12/13/2017, the violations and Compliance Agreement were discussed. The IU was required to submit timelines for the following: completion of all upgrades to the treatment system components and moving the sample point after all treatment; retraining pretreatment system operators by 2/28/2018; submitting training logs by 2/28/2018; developing SOPs for existing and upgraded treatment systems by 2/28/2018; and collecting samples for three months – January 2018, February 2018, and March 2018.

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	Current		Previous					Reported Level (mg/L)		Discharge Limit (mg/L)			
	Q4 2017	Q3 2017	Q2 2017	Q1 2017				Max	Avg	Federal Max Avg	Local Max Avg		
THAT Corporation 505 Fairview Way Milpitas, CA 95035 MI-078B **Flow =** 3,205 (on 02/08/17) 40 CFR 469 Subpart A	CC	CC	CC	CC	10/13/2017	OTHER	pH	5.5 (min)			6.0 (min)	VW	The violation was for failing to meet the local pH limit, as noted on the IU's pH chart recorder. The two minute pH violation was reported by the IU on 10/13/2017. The cause of the violation was determined to be an improperly primed caustic injection pump. The IU responded to the violation by reconfiguring the caustic injection pump to proper operation. Successive copies of the pH monitoring record submitted by the IU on 12/21/2017 were in compliance.
TTM Technologies North America, LLC 359 Mathew St Santa Clara, CA 95050 SC-374A **Flow =** 35,922 40 CFR 433.17 Subpart A	CC	CC	CC	CC	9/21/2017	OTHER	pH	4.8 (min)		5.0 (min)	6.0 (min)	WN	The violations were for failing to meet the federal and local pH limits, as noted on the IU's pH chart recorder. The five minute pH violations were reported by the IU on 9/21/2017. The cause of the violations was determined to be mineral buildup in the closed loop system valves. The IU responded to the violations by removing mineral buildup and implementing quarterly cleaning of the system. Successive copies of the pH monitoring record submitted by the IU on 10/12/2017 were in compliance.

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	Current		Previous					Reported Level (mg/L)		Discharge Limit (mg/L)			
	Q4 2017	Q3 2017	Q2 2017	Q1 2017				Max	Avg	Federal Max Avg	Local Max Avg		
Vishay/Siliconix 2201 Laurelwood Rd Santa Clara, CA 95054 SC-282A **Flow =** 47,083 (on 06/07/17) 40 CFR 469 Subpart A 40 CFR 433.17 Subpart A	CC	IF/ IL	CC	CC	7/31/2017	OTHER	pH	12.6 0.0(min)		5.0 (min)	6.0-<12.5	WN	The violations were for failing to meet the federal and local pH limits, as noted on the IU's pH monitoring record. The eight and 24 minute pH violations were reported by the IU on 7/31/2017. The cause of the violations was determined to be a damaged pH probe, which resulted in inadequate pH neutralization. The IU responded to the violations by replacing and installing backup pH probes, as verified during an inspection on 7/31/2017. Successive copies of the pH monitoring record submitted by the IU on 8/1/2017 were in compliance.

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POTW's Compliance with Pretreatment Program Requirements

Information for this section can be found in the Pretreatment Program Changes section of the Annual Report.