ENCINA WASTEWATER AUTHORITY

A Public Agency

6200 Avenida Encinas
Carlsbad, CA 92011-1095
Telephone (760) 438-3941
FAX (760) 438-3861
(Plant)

ENCINA WASTEWATER AUTHORITY

2023 ANNUAL PRETREATMENT PROGRAM REPORT

NPDES PERMIT HOLDER AND SEWER AUTHORITY NAME:	Encina Wastewater Authority
REPORT DATE:	February 28, 2024
PERIOD COVERED BY THIS REPORT:	January 1 – December 31, 2023
NAME OF POTW:	Encina Water Pollution Control Facility
NPDES PERMIT NUMBER:	CA0107395

PERSON TO CONTACT CONCERNING INFORMATION CONTAINED IN THIS REPORT:

Alicia Appel
Director of Environmental Compliance
Encina Wastewater Authority
6200 Avenida Encinas
Carlsbad, CA 92011-1095
Telephone: (760) 268-8861

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

Scott McClelland
General Manager

Dated: 2/26/2024

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February 28, 2024

Via CIWQS

Ref: EC 24-0045

California Regional Water Quality Control Board
San Diego Region
2375 Northside Drive, Suite 100
San Diego, CA 92108

Attention: Fisayo Osibodu

SUBJECT: Submittal of 2022 Annual Pretreatment Program Report Period January 1, 2023 through December 31, 2023

Dear Fisayo,

Enclosed please find a copy of the Encina Wastewater Authority Annual Pretreatment Program Report for 2023. This report is submitted as required by NPDES Permit Number CA0107395.

Please contact Alicia Appel, Director of Environmental Compliance, at 760-268-8861 if you have any questions.

Sincerely,

Scott McClelland
General Manager

Attachment

cc: Amelia Whitson, EPA Region IX
Gurgangn/"Gur" Chand, State Water Resources Control Board
Gary Erbeck, San Diego County Department of Environmental Health

Encina Wastewater Authority
Annual Pretreatment Program Report

Table of Contents

Program Summary

The Encina Wastewater Authority (Encina) operates an approved pretreatment program in North San Diego County. Encina is a joint powers authority consisting of six member agencies: the Cities of Vista, Carlsbad, and Encinitas, as well as the Vallecitos Water District, the Buena Sanitation District, and the Leucadia Wastewater District. The Encina System is comprised of the collection, treatment and disposal facilities of its member agencies including: the Encina Water Pollution Control Facility (EWPCF), the Gafner Water Reclamation Facility (GWRF), the Meadowlark Water Reclamation Facility (MWRF), the Carlsbad Water Recycling Facility (CWRF), and the Encina Ocean Outfall.

The Encina service area encompasses a population of approximately 378,976 and covers a 125 square mile area. This area is predominantly characterized by residential development. At the end of 2023, the combined flow to the EWPCF and MWRF was approximately (26.97 MGD) and the total combined industrial flow to both plants was approximately (0.39 MGD) and represented only 1.45% of the total average daily influent to both treatment plants. The manufacturing sector and residential population growth in the service area remained fairly steady.

During 2023, there were no incidents of upset, interference, or pass-through at Encina attributed to industrial users. All monitoring of the Encina Ocean Outfall and receiving water in 2023 demonstrated compliance with regulatory standards.

During 2023, Encina had 55 permitted Industrial Users (IUs): 16 Categorical Industrial Users (CIUs), four Non-Categorical Significant Industrial Users (SIUs) and 35 Class III Industrial Users (Non-Significant CIUs, R/D, zero-discharge CIUs, and other businesses with the potential to impact the Encina System). Encina staff conducted a total of 118 Facility Inspections including 55 Annual Inspections.

Encina and the industrial users perform regular monitoring during the calendar year and met federal requirements. Representative grab and composite samples are used to determine compliance. A total of 277 monitoring events were performed during the calendar year. Encina staff conducted 127 monitoring events, including 96 from CIU/SIU industries. Industrial Users performed 150 monitoring events including 116 from CIU/SIU industries.

Encina maintains a proactive enforcement stance. During 2023, 58 Notices of Violation (NOVs) were issued and $52,700 in fines and enforcement costs were assessed. Four of the 20 CIU/SIUs active in the service area during the year were found to be in Significant Non-Compliance (SNC). Three of the four industries in SNC during the year are implementing corrective actions and working to demonstrate compliance. One of the CIUs (Captek) attained final compliance as per EC 24-0024.

Local Limit Studies for the Encina Water Pollution Control Facility (EWPCF) and Meadowlark Water Reclamation Facility (MWRF) were completed in December 2009; final approval was received from the San Diego Regional Water Quality Control Board

(RWQCB) on March 14, 2012. Encina's Pretreatment Ordinance was amended to reflect the new technically-based local limits, including other recommended changes. Encina's renewed NPDES permit became effective on November 1, 2018. With the issuance of the permit, Encina retained the services of Larry Walker Associates to perform a local limits evaluation for both the EWPCF and MWRF. Larry Walker Associates submitted final local limit evaluations for the two plants. The evaluation determined that, overall, the existing local limits are adequate and protective of the Encina Wastewater Authority's facilities. The evaluations findings were submitted to the board on August 19, 2020.

Summary of Analytical Results

Data required in this section has been reported electronically to the California RWQCB through the California Integrated Water Quality System (CIWQS). Please refer to the Encina Water Pollution Control Facility and Ocean Outfall 2023 monthly, quarterly, and semiannual self-monitoring reports for Order No. R9-2018-0059, NPDES Permit No. CA0107395. Full priority pollutant scans of the influent and effluent for the EWPCF and MWRF are attached in Appendix A.

Upset, Interference or Pass-through Incidents

During 2023, there were no incidents of upset, interference, or pass-through at Encina attributed to industrial users. All monitoring of the Encina Ocean Outfall and receiving water in 2023 demonstrated compliance with regulatory standards.

Industrial Users

The Encina service area encompasses a population of approximately 378,976 and covers a 125 square mile area. This area is predominantly characterized by residential development. At the end of 2023, the combined flow to the EWPCF and MWRF was approximately (26.97 MGD) and the total combined industrial flow to both plants was approximately (0.39 MGD) and represented only 1.45% of the total average daily influent to both treatment plants. The manufacturing sector and residential population growth in the service area remained fairly steady.

Appendix B contains a list of all SIUs along with: federal category, if applicable; type of pretreatment in place (if any); the number of inspections conducted; the number of samples collected by Encina; the number of samples collected by the IU; the number of limit violations; the IU's compliance status by quarter; whether all Total Toxic Organics (TTO) certifications or monitoring data were submitted; and a summary of any enforcement actions taken. Below is a list of additions, changes of status, and deletions that occurred during the year.

Additions

None.

Changes of Status

None.

Deletions

Hocking International Laboratories.

- On March 29, 2023, a closure inspection was performed at the Hocking International Laboratories (HIL), a Zero Discharge Class III facility located at 980 Rancheros Drive in San Marcos with Lorena Gonzalez, Production Supervisor. HIL had manufactured janitorial supplies and fertilizers.

Lancer Orthodontics, Inc.

- On 10/31/2023 a closure inspection was performed at the Lancer Orthodontics, Inc. (LOI) a Zero Discharge Class III facility located at 2726 Loker Avenue West in Carlsbad with Regulatory Affairs Consultant, Rich Merrell. LOI manufactured molds for orthodontic brackets and buccal tubes via metal injection molding (MIM) and plastic injection molding (PIM). LOI was a zero-discharge facility that did not discharge any process wastewater.

Appendix C contains a list of industries that Encina has designated as Non-Significant Categorical Industrial Users (NSCIUs) based on their limited ability to impact the Encina System (discharge less than 100 gallons per day, never discharge concentrated wastestreams, and have demonstrated compliance with applicable discharge limits.) Encina continues to perform annual inspections of these businesses and each industry must submit semiannual certification statements that they continue to meet the NSCIU criteria.

Baseline Monitoring Report Requirements

On 7/12/2023 SAFC (Whiptail) submitted a Baseline Monitoring Report (BMR) in efforts to approve a federally regulated discharge from their QA/QC labs and change their permit status from a Class III (zero discharge) permit to a Class I federally regulated CIU regulated under 40 CRF 439.27. The BMR showed compliance with all applicable limits. The permit will be amended when additional required follow-up items are completed.

On 9/20/2023 SAFC (Whiptail) submitted a second Baseline Monitoring Report in efforts to approve a federally regulated discharge from their production suites and analytical development laboratory and change their permit status from a Class III (zero discharge) permit to a Class I federally regulated CIU regulated under 40 CRF 439.27. The BMR did not conclusively demonstrate compliance with the standards, additional measures and testing are required to show full compliance. The permit will be amended when appropriate.

On 11/3/2023, Neotech (Name Change from Natel Engineering Company) added a regulated waste stream to their existing permit and submitted a Baseline Monitoring Report for the additional waste stream.

Enforcement Activities
Encina maintains a proactive enforcement stance in accordance with the Enforcement Response Plan and Guide. Administrative Orders are not an approved element of Encina's Enforcement Response Plan. During 2023, 58 Notices of Violation (NOVs) were issued and $52,700 in fines and enforcement costs were assessed.

SIUs in Significant Non Compliance (SNC). In Calendar year 2023, four of the 20 CIU/SIUs active in the service area during the year were found to be in SNC, including two industries that each had a single violating monitoring event.

Bachem Americas: located in Vista was in Chronic and Technical Review Criteria (TRC) SNC for the second evaluation period due to a single monthly average violation for Chloroform in April of 2023. The IU was issued one NOV and $100 in fines and fees. Bachem has proposed upgrading its pretreatment system and in the interim has implemented revisions to their solvent management practices.

HRE Performance Wheels:
HRE Performance wheels located in Vista was in TRC SNC for the fourth evaluation period due to a single monitoring event that violated the copper daily max and monthly average limits. The IU was issued one NOV and $100 in fines and fees. The violations were attributed to a failure in preventative maintenance, plus an unauthorized movement of a recirculation pump. Corrective actions involved hiring dedicated staff responsible for compliance with environmental permits and waste disposal. HRE has enhanced their pretreatment with an upgraded pumping system, settling tank and particulate filtration.

Captek Softgel International, Inc.:
Captek was in chronic SNC for each of the four evaluation periods due to exceeding the limit for Biochemical Oxygen Demand (BOD). Captek was also in SNC for failure to meet an interim compliance date in the fourth quarter 2023. In calendar year 2023, the IU was issued 8 NOVs and $14,900 in fines and fees. In the calendar year, the following violations were identified: 15 BOD exceedances, failure to meet an Interim Compliance Date, six failures to notify, two >30-day late reports. Captek attributes the limit violations to a rapid increase in business over the past 1.5 years. Captek implemented a strategic sampling program to investigate and evaluate potential sources of the BOD loading in industrial wastewater discharges and unsuccessfully attempted numerous interim measures to reduce the BOD. Due to the pattern of noncompliance and inability of Captek to maintain consistent permit compliance, they were put on a compliance schedule on April 15, 2023. The first pretreatment system (ozone with carbon filtration) failed to reduce the BOD to acceptable levels. Since Captek acted quickly to purchase and implement an alternative Dissolved Air Flotation (DAF) pretreatment system, Encina's management decided to

extend the final compliance date to December 31, 2023. On December 29, 2023, Encina confirmed that Captek attained final compliance as per EC 23-0048.

Primarch Manufacturing:
Primarch Manufacturing in Vista was in SNC for all four evaluation periods. In the first evaluation period they were in Chronic and TRC SNC from two acetone monthly average violations. In the second evaluation period they were in Chronic and TRC SNC for a single oil and grease violation. In the third evaluation period they were in TRC SNC from an acetone monthly average violation and Chronic and TRC SNC for oil and grease violations. In the fourth evaluation period, they were in TRC SNC for an acetone monthly average violation. In 2023, Primarch was issued 8 NOVs for $7,400 in fines and fees. Primarch determined that infrequent clarifier service and excessive use of Isopropyl Alcohol were the root causes of the acetone and oil and grease violations. Corrective action retraining their employees on the cleaning and SOPs, as well as increased frequency of clarifier service.

Pollution Prevention Plans

No industries have submitted or been required to submit a pollution prevention plan.

Best Management Practices (BMP) Program

In addition to the regulation of SIUs, Encina implements a BMP Program to reduce the level of pollutants entering the system and reaching the EWPCF. Encina currently has 446 businesses in the BMP program. Users agree to implement a variety of actions directed at reducing the level of pollutants in their discharge. Inspections by Encina staff, along with periodic inventory efforts with Member Agencies and regulatory databases, are used to verify program effectiveness and industry coverage.

Significant Changes in Pretreatment Program Operation

In 2023 no significant changes occurred in the pretreatment program operations. However, Encina worked with an information technology contractor to build an upgraded database solution for storing pretreatment information. The solution is referred to as Pretreatment Information Management System (PIMS), and functions similarly to the previous electronic system but with increased functionality. The primary areas of increased functionality include direct import of data from Encina's lab, improved industry monthly average limit evaluations, SNC calculations, and report/notice generation. PIMS integrates with other key Encina software such as Microsoft programs, Wastewater Information Management System (WIMS), Laboratory Information Management System (LIMS) and finance software Munis.

In 2023, Encina added an Inspector III classification. This is the most senior level classification in the Source Control Inspector classification series. This position is responsible for performing the full range of professional inspection duties including, but not limited to the most complex facilities and diverse assignments. Incumbents are expected to work independently and exercise judgment and initiative. Positions at this level receive only minimal instruction or assistance as new or unusual situations arise and are fully able to perform and oversee development of the operating procedures and policies of the work unit. One staff member was promoted to E.C. Inspector III.

Sewage Transfer Agreement Between the City of Oceanside and City of Vista

The City of Vista maintains an agreement with the City Oceanside to provide a connection to the City of Vista collection system for wastewater disposal. During calendar year 2023, the City of Oceanside discharged an average of 1.4 MGD to the City of Vista collection system. The wastewater is then conveyed to the Encina Water Pollution Control Facility for treatment and discharge to the Pacific Ocean. The agreement requires the City of Oceanside to administer Encina's local limits and pretreatment ordinance and allows for a maximum average daily flow of 2.15 MGD.

The area contributing wastewater to the City of Vista is characterized as mainly residential with light commercial. The City of Oceanside reported via email that there were no Significant Industrial Users active in the service area contributing to the City of Vista in 2023.

Summary of Annual Pretreatment Budget

FY 2023 budget for Encina's Pretreatment Program was $904,348. The FY 2024 budget for the Pretreatment Program is $1,019,627. A line-item detail of the budget is attached for reference in Appendix D.

Public Education

The EWPCF has been designed to maximize the use of alternative and renewable resources, including methane gas and biosolids, plus generate effluent for recycled wastewater operations. In 2023, Encina continued multiple plant enhancement and rehabilitation projects, which includes Digester Improvements and Rehabilitation, Primary Area Improvements and Rehabilitation, Cogeneration Building Structural Repair, and Network Improvements. Due to the significant ongoing construction projects, Encina has temporarily halted public tours. Tours may reinitiate once it is deemed appropriate.

Encina also generally participates in other community outreach activities. In 2023, Encina purchased new public outreach gifts to promote sustainability and environmental awareness while representing Encina at participating member agency events. Encina

Source Control staff utilizes a wastewater treatment plant demonstration model at community events. During 2023, Encina participated in the following events: Earth Day at Alta Vista gardens on April 4, 2023, the Carlsbad Citizens Academy on October 6, 2023, Agua Hedionda Lagoon World Water Day on March 23, 2023, and Carlsbad Green Business Program on May 10, 2023.

Encina staff provide information via phone and e-mails to private citizens and inquiring parties. In addition, copies of the brochure entitled "10 Simple Things You Can Do to Protect the Ocean" were provided to various organizations and private citizens as requested, and information was improved on the Encina website, www.encinajpa.com.

40 CFR Part 403.8(f)(2)(viii) requires at least annual public notification, in the largest daily newspaper in the POTW's service area, of industrial users, which at any time during the previous twelve months, were found in significant non-compliance. Attached in Appendix E is a copy of the SNC publication for the period of January 1 to December 31, 2023.

Biosolids Disposal Methods

In 2023, Encina produced approximately 6320 Dry Metric Tons (DMT) of Class A and Class B biosolids. See the table below for the breakdown. Denali Water Solutions ("Denali") was the primary hauler used by Encina for biosolids management. Denali transports biosolids to Yuma, Arizona for land application. Digester cleaning biosolids were hauled to Copper Mountain Landfill. The remaining biosolids are sold and/or given away for use in golf courses, nurseries, soil blenders, and/or fertilizer products.

Class A	4796.75	DMT
Class B	675.13	DMT
Landfill	130.10	DMT
Fertilizer	717.60	DMT

Laboratory data demonstrates that metal levels in the biosolids are well below the allowable pollutant concentrations for land application as found in Table 3 of 40 CFR Part 503.13. The ability to consistently meet these standards is largely due to Encina's small industrial base and effective Pretreatment Program.

WECK LABORATORIES, INC.

Certificate of Analysis

FINAL REPORT

Work Orders: 3A31022

Project: 2023 Annual Encina Influent Influent Priority Pollutant Scan

Attn: Rachael Morgan

Client: Encina Wastewater Authority
6200 Avenida Encinas
Carlsbad, CA 92011

Report Date: 3/06/2023

Received Date: 01/31/2023

Turnaround Time: Normal

Phones: (760) 438-3941

Fax:

P.O. #:

Billing Code:

DoD-ELAP ANAB #ADE-2882 • DoD-ISO ANAB # • ELAP-CA #1132 • EPA-UCMR #CA00211 • ISO17025 ANAB #L2457.01 • LACSD #10143

This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.

Dear Rachael Morgan,

Enclosed are the results of analyses for samples received 1/31/23 with the Chain-of-Custody document. The samples were received in good condition, at 1.1 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

Reviewed by:

Kim G. Tu
Project Manager

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634

www.wecklabs.com

Encina Wastewater Authority
6200 Avenida Encinas
Carlsbad, CA 92011

Project Number: 2023 Annual Encina Influent Influent Priority Pollutant Scan

Project Manager: Rachael Morgan

Reported: 03/06/2023 16:16

Sample Summary

Sample Name	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
Encina Influent	JC	3A31022-01	Water	01/30/23 10:30	

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Project Number: 2023 Annual Encina Influent Influent Priority Pollutant Scan

Project Manager: Rachael Morgan

Reported: 03/06/2023 16:16

Sample Results

Sample: Encina Influent
3A31022-01 (Water)

Sampled: 01/30/23 10:30 by JC

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Acid and Base/Neutral Extractables by GC/MS						
Method: EPA 625.1		**Instr:** GCMS06				
Batch ID: W3B0259 **Preparation:** EPA 625/L-L SF		**Prepared:** 02/03/23 07:43				**Analyst:** rmr
1,2,4-Trichlorobenzene	ND	20	ug/l	20	03/03/23	M-04
1,2-Dichlorobenzene	ND	20	ug/l	20	03/03/23	M-04
1,2-Diphenylhydrazine/Azobenzene	ND	20	ug/l	20	03/03/23	M-04
1,3-Dichlorobenzene	ND	20	ug/l	20	03/03/23	M-04
1,4-Dichlorobenzene	ND	20	ug/l	20	03/03/23	M-04
2,4,6-Trichlorophenol	ND	20	ug/l	20	03/03/23	M-04
2,4-Dichlorophenol	ND	20	ug/l	20	03/03/23	M-04
2,4-Dimethylphenol	ND	20	ug/l	20	03/03/23	M-04
2,4-Dinitrophenol	ND	200	ug/l	20	03/03/23	M-04
2,4-Dinitrotoluene	ND	20	ug/l	20	03/03/23	M-04
2,6-Dinitrotoluene	ND	20	ug/l	20	03/03/23	M-04
2-Chloronaphthalene	ND	20	ug/l	20	03/03/23	M-04
2-Chlorophenol	ND	20	ug/l	20	03/03/23	M-04
2-Methyl-4,6-dinitrophenol	ND	100	ug/l	20	03/03/23	M-04
2-Nitrophenol	ND	20	ug/l	20	03/03/23	M-04
3,3'-Dichlorobenzidine	ND	100	ug/l	20	03/03/23	M-04
4-Bromophenyl phenyl ether	ND	20	ug/l	20	03/03/23	M-04
4-Chloro-3-methylphenol	ND	20	ug/l	20	03/03/23	M-04
4-Chlorophenyl phenyl ether	ND	20	ug/l	20	03/03/23	M-04
4-Nitrophenol	ND	100	ug/l	20	03/03/23	M-04
Acenaphthene	ND	20	ug/l	20	03/03/23	M-04
Acenaphthylene	ND	20	ug/l	20	03/03/23	M-04
Anthracene	ND	20	ug/l	20	03/03/23	M-04
Benzidine	ND	200	ug/l	20	03/03/23	M-04
Benzo (a) anthracene	ND	20	ug/l	20	03/03/23	M-04
Benzo (a) pyrene	ND	20	ug/l	20	03/03/23	M-04
Benzo (b) fluoranthene	ND	20	ug/l	20	03/03/23	M-04
Benzo (g,h,i) perylene	ND	40	ug/l	20	03/03/23	M-04
Benzo (k) fluoranthene	ND	20	ug/l	20	03/03/23	M-04
Bis(2-chloroethoxy)methane	ND	20	ug/l	20	03/03/23	M-04
Bis(2-chloroethyl)ether	ND	20	ug/l	20	03/03/23	M-04
Bis(2-chloroisopropyl)ether	ND	20	ug/l	20	03/03/23	M-04
Bis(2-ethylhexyl)phthalate	ND	100	ug/l	20	03/03/23	M-04
Butyl benzyl phthalate	ND	20	ug/l	20	03/03/23	M-04
Chrysene	ND	20	ug/l	20	03/03/23	M-04

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Project Number: 2023 Annual Encina Influent Influent Priority Pollutant Scan

Project Manager: Rachael Morgan

Reported: 03/06/2023 16:16

Sample Results

(Continued)

Sample: Encina Influent
3A31022-01 (Water)

Sampled: 01/30/23 10:30 by JC

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Acid and Base/Neutral Extractables by GC/MS (Continued)						
Method: EPA 625.1		**Instr:** GCMS06				
Batch ID: W3B0259 **Preparation:** EPA 625/L-L SF		**Prepared:** 02/03/23 07:43				**Analyst:** rmr
Dibenzo (a,h) anthracene	ND	40	ug/l	20	03/03/23	M-04
Diethyl phthalate	ND	20	ug/l	20	03/03/23	M-04
Dimethyl phthalate	ND	20	ug/l	20	03/03/23	M-04
Di-n-butyl phthalate	ND	20	ug/l	20	03/03/23	M-04
Di-n-octyl phthalate	ND	20	ug/l	20	03/03/23	M-04
Fluoranthene	ND	20	ug/l	20	03/03/23	M-04
Fluorene	ND	20	ug/l	20	03/03/23	M-04
Hexachlorobenzene	ND	20	ug/l	20	03/03/23	M-04
Hexachlorobutadiene	ND	20	ug/l	20	03/03/23	M-04
Hexachlorocyclopentadiene	ND	100	ug/l	20	03/03/23	M-04
Hexachloroethane	ND	20	ug/l	20	03/03/23	M-04
Indeno (1,2,3-cd) pyrene	ND	40	ug/l	20	03/03/23	M-04
Isophorone	ND	20	ug/l	20	03/03/23	M-04
Naphthalene	ND	20	ug/l	20	03/03/23	M-04
Nitrobenzene	ND	20	ug/l	20	03/03/23	M-04
N-Nitrosodimethylamine	ND	20	ug/l	20	03/03/23	M-04
N-Nitrosodi-n-propylamine	ND	20	ug/l	20	03/03/23	M-04
N-Nitrosodiphenylamine	ND	20	ug/l	20	03/03/23	M-04
Pentachlorophenol	ND	20	ug/l	20	03/03/23	M-04
Phenanthrene	ND	20	ug/l	20	03/03/23	M-04
Phenol	ND	20	ug/l	20	03/03/23	M-04
Pyrene	ND	20	ug/l	20	03/03/23	M-04
Surrogate(s)						
2,4,6-Tribromophenol	*5%*	*Conc: 2.07*	*25-120*		*03/03/23*	*S-04*
2-Fluorobiphenyl	*6%*	*Conc: 1.27*	*22-120*		*03/03/23*	*S-04*
2-Fluorophenol	*3%*	*Conc: 1.18*	*17-120*		*03/03/23*	*S-04*
Nitrobenzene-d5	*6%*	*Conc: 1.16*	*47-120*		*03/03/23*	*S-04*
Phenol-d5	*2%*	*Conc: 0.920*	*12-120*		*03/03/23*	*S-04*
Terphenyl-d14	*3%*	*Conc: 0.539*	*44-129*		*03/03/23*	*S-04*
Chlorinated Pesticides and/or PCBs by GC/ECD						
Method: EPA 608.3		**Instr:** GC07				
Batch ID: W3B0399 **Preparation:** EPA 608/L-L SF		**Prepared:** 02/06/23 08:21				**Analyst:** RJG
4,4´-DDD	ND	1.0	ug/l	20	02/15/23	M-04
4,4´-DDE	ND	1.0	ug/l	20	02/15/23	M-04
4,4´-DDT	ND	0.20	ug/l	20	02/15/23	M-04
Aldrin	ND	0.10	ug/l	20	02/15/23	M-04

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Project Manager: Rachael Morgan

Reported: 03/06/2023 16:16

Sample Results

(Continued)

Sample: Encina Influent
3A31022-01 (Water)

Sampled: 01/30/23 10:30 by JC

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Chlorinated Pesticides and/or PCBs by GC/ECD (Continued)						
Method: EPA 608.3		**Instr:** GC07				
Batch ID: W3B0399 **Preparation:** EPA 608/L-L SF		**Prepared:** 02/06/23 08:21				**Analyst:** RJG
alpha-BHC	ND	0.20	ug/l	20	02/15/23	M-04
Aroclor 1016	ND	10	ug/l	20	02/15/23	M-04
Aroclor 1221	ND	10	ug/l	20	02/15/23	M-04
Aroclor 1232	ND	10	ug/l	20	02/15/23	M-04
Aroclor 1242	ND	10	ug/l	20	02/15/23	M-04
Aroclor 1248	ND	10	ug/l	20	02/15/23	M-04
Aroclor 1254	ND	10	ug/l	20	02/15/23	M-04
Aroclor 1260	ND	10	ug/l	20	02/15/23	M-04
beta-BHC	ND	0.10	ug/l	20	02/15/23	M-04
Chlordane (tech)	ND	2.0	ug/l	20	02/15/23	M-04
delta-BHC	ND	0.10	ug/l	20	02/15/23	M-04
Dieldrin	ND	0.20	ug/l	20	02/15/23	M-04
Endosulfan I	ND	0.40	ug/l	20	02/15/23	M-04
Endosulfan II	ND	0.20	ug/l	20	02/15/23	M-04
Endosulfan sulfate	ND	1.0	ug/l	20	02/15/23	M-04
Endrin	ND	0.20	ug/l	20	02/15/23	M-04
Endrin aldehyde	ND	0.20	ug/l	20	02/15/23	M-04
gamma-BHC (Lindane)	ND	0.40	ug/l	20	02/15/23	M-04
Heptachlor	ND	0.20	ug/l	20	02/15/23	M-04
Heptachlor epoxide	ND	0.20	ug/l	20	02/15/23	M-04
Toxaphene	ND	10	ug/l	20	02/15/23	M-04
Surrogate(s)						
Decachlorobiphenyl	*44%*	*Conc: 0.0443*	*33-133*		*02/15/23*	
Tetrachloro-meta-xylene	*55%*	*Conc: 0.0560*	*32-130*		*02/15/23*	

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6200 Avenida Encinas
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Project Number: 2023 Annual Encina Influent Influent Priority Pollutant Scan

Project Manager: Rachael Morgan

Reported: 03/06/2023 16:16

Sample Results

(Continued)

Sample: Encina Influent
3A31022-01RE1 (Water)

Sampled: 01/30/23 10:30 by JC

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS						
Method: EPA 624.1		**Instr:** GCMS21				
Batch ID: W3B0155 **Preparation:** EPA 5030B		**Prepared:** 02/02/23 08:24			**Analyst:** ADM	
1,1,1-Trichloroethane	ND	20	ug/l	20	02/02/23	M-05
1,1,2,2-Tetrachloroethane	ND	20	ug/l	20	02/02/23	M-05
1,1,2-Trichloroethane	ND	20	ug/l	20	02/02/23	M-05
1,1-Dichloroethane	ND	20	ug/l	20	02/02/23	M-05
1,1-Dichloroethene	ND	20	ug/l	20	02/02/23	M-05
1,2-Dichloroethane	ND	20	ug/l	20	02/02/23	M-05
1,2-Dichloropropane	ND	20	ug/l	20	02/02/23	M-05
2-Butanone	ND	100	ug/l	20	02/02/23	M-05
2-Chloroethyl vinyl ether	ND	20	ug/l	20	02/02/23	M-05
2-Hexanone	ND	100	ug/l	20	02/02/23	M-05
4-Methyl-2-pentanone	ND	100	ug/l	20	02/02/23	M-05
Acetone	**220**	100	ug/l	20	02/02/23	M-05
Acrolein	ND	100	ug/l	20	02/02/23	M-05
Acrylonitrile	ND	40	ug/l	20	02/02/23	M-05
Benzene	ND	20	ug/l	20	02/02/23	M-05
Bromodichloromethane	ND	20	ug/l	20	02/02/23	M-05
Bromoform	ND	20	ug/l	20	02/02/23	M-05
Bromomethane	ND	20	ug/l	20	02/02/23	M-05
Carbon Disulfide	ND	20	ug/l	20	02/02/23	M-05
Carbon tetrachloride	ND	20	ug/l	20	02/02/23	M-05
Chlorobenzene	ND	20	ug/l	20	02/02/23	M-05
Chloroethane	ND	20	ug/l	20	02/02/23	M-05
Chloroform	ND	20	ug/l	20	02/02/23	M-05
Chloromethane	ND	20	ug/l	20	02/02/23	M-05
cis-1,3-Dichloropropene	ND	20	ug/l	20	02/02/23	M-05
Dibromochloromethane	ND	20	ug/l	20	02/02/23	M-05
Dichlorodifluoromethane (Freon 12)	ND	20	ug/l	20	02/02/23	M-05
Ethylbenzene	ND	20	ug/l	20	02/02/23	M-05
m-Dichlorobenzene	ND	20	ug/l	20	02/02/23	M-05
Methyl tert-butyl ether (MTBE)	ND	20	ug/l	20	02/02/23	M-05
Methylene chloride	ND	20	ug/l	20	02/02/23	M-05
o-Dichlorobenzene	ND	20	ug/l	20	02/02/23	M-05
p-Dichlorobenzene	ND	20	ug/l	20	02/02/23	M-05
Tetrachloroethene	ND	20	ug/l	20	02/02/23	M-05
Toluene	ND	20	ug/l	20	02/02/23	M-05

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Sample Results

(Continued)

Sample: Encina Influent

3A31022-01RE1 (Water)

Sampled: 01/30/23 10:30 by JC

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)						
Method: EPA 624.1		**Instr:** GCMS21				
Batch ID: W3B0155 **Preparation:** EPA 5030B		**Prepared:** 02/02/23 08:24				**Analyst:** ADM
trans-1,2-Dichloroethene	ND	20	ug/l	20	02/02/23	M-05
trans-1,3-Dichloropropene	ND	20	ug/l	20	02/02/23	M-05
Trichloroethene	ND	20	ug/l	20	02/02/23	M-05
Trichlorofluoromethane	ND	20	ug/l	20	02/02/23	M-05
Vinyl chloride	ND	20	ug/l	20	02/02/23	M-05
Surrogate(s)						
1,2-Dichloroethane-d4	*112%*	*Conc: 56.1*	*82-125*		*02/02/23*	
4-Bromofluorobenzene	*93%*	*Conc: 46.7*	*88-108*		*02/02/23*	
Toluene-d8	*97%*	*Conc: 48.6*	*92-112*		*02/02/23*	

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Project Manager: Rachael Morgan

Reported: 03/06/2023 16:16

Quality Control Results

Acid and Base/Neutral Extractables by GC/MS

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W3B0259 - EPA 625.1										
Blank (W3B0259-BLK1)				**Prepared: 02/03/23 Analyzed: 03/02/23**						
1,2,4-Trichlorobenzene	ND	1.0	ug/l							
1,2-Dichlorobenzene	ND	1.0	ug/l							
1,2-Diphenylhydrazine/Azobenzene	ND	1.0	ug/l							
1,3-Dichlorobenzene	ND	1.0	ug/l							
1,4-Dichlorobenzene	ND	1.0	ug/l							
2,4,6-Trichlorophenol	ND	1.0	ug/l							
2,4-Dichlorophenol	ND	1.0	ug/l							
2,4-Dimethylphenol	ND	1.0	ug/l							
2,4-Dinitrophenol	ND	10	ug/l							
2,4-Dinitrotoluene	ND	1.0	ug/l							
2,6-Dinitrotoluene	ND	1.0	ug/l							
2-Chloronaphthalene	ND	1.0	ug/l							
2-Chlorophenol	ND	1.0	ug/l							
2-Methyl-4,6-dinitrophenol	ND	5.0	ug/l							
2-Nitrophenol	ND	1.0	ug/l							
3,3'-Dichlorobenzidine	ND	5.0	ug/l							
4-Bromophenyl phenyl ether	ND	1.0	ug/l							
4-Chloro-3-methylphenol	ND	1.0	ug/l							
4-Chlorophenyl phenyl ether	ND	1.0	ug/l							
4-Nitrophenol	ND	5.0	ug/l							
Acenaphthene	ND	1.0	ug/l							
Acenaphthylene	ND	1.0	ug/l							
Anthracene	ND	1.0	ug/l							
Benzidine	ND	10	ug/l							
Benzo (a) anthracene	ND	1.0	ug/l							
Benzo (a) pyrene	ND	1.0	ug/l							
Benzo (b) fluoranthene	ND	1.0	ug/l							
Benzo (g,h,i) perylene	ND	2.0	ug/l							
Benzo (k) fluoranthene	ND	1.0	ug/l							
Bis(2-chloroethoxy)methane	ND	1.0	ug/l							
Bis(2-chloroethyl)ether	ND	1.0	ug/l							
Bis(2-chloroisopropyl)ether	ND	1.0	ug/l							
Bis(2-ethylhexyl)phthalate	ND	5.0	ug/l							
Butyl benzyl phthalate	ND	1.0	ug/l							
Chrysene	ND	1.0	ug/l							
Dibenzo (a,h) anthracene	ND	2.0	ug/l							
Diethyl phthalate	ND	1.0	ug/l							
Dimethyl phthalate	ND	1.0	ug/l							
Di-n-butyl phthalate	ND	1.0	ug/l							

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Project Manager: Rachael Morgan

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Quality Control Results

(Continued)

Acid and Base/Neutral Extractables by GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W3B0259 - EPA 625.1 (Continued)										
Blank (W3B0259-BLK1)				**Prepared: 02/03/23 Analyzed: 03/02/23**						
Di-n-octyl phthalate	ND	1.0	ug/l							
Fluoranthene	ND	1.0	ug/l							
Fluorene	ND	1.0	ug/l							
Hexachlorobenzene	ND	1.0	ug/l							
Hexachlorobutadiene	ND	1.0	ug/l							
Hexachlorocyclopentadiene	ND	5.0	ug/l							
Hexachloroethane	ND	1.0	ug/l							
Indeno (1,2,3-cd) pyrene	ND	2.0	ug/l							
Isophorone	ND	1.0	ug/l							
Naphthalene	ND	1.0	ug/l							
Nitrobenzene	ND	1.0	ug/l							
N-Nitrosodimethylamine	ND	1.0	ug/l							
N-Nitrosodi-n-propylamine	ND	1.0	ug/l							
N-Nitrosodiphenylamine	ND	1.0	ug/l							
Pentachlorophenol	ND	1.0	ug/l							
Phenanthrene	ND	1.0	ug/l							
Phenol	ND	1.0	ug/l							
Pyrene	ND	1.0	ug/l							
Surrogate(s)										
2,4,6-Tribromophenol	*30.6*		*ug/l*	*40.0*		*76*	*25-120*			
2-Fluorobiphenyl	*14.2*		*ug/l*	*20.0*		*71*	*22-120*			
2-Fluorophenol	*21.2*		*ug/l*	*40.0*		*53*	*17-120*			
Nitrobenzene-d5	*17.9*		*ug/l*	*20.0*		*89*	*47-120*			
Phenol-d5	*13.2*		*ug/l*	*40.0*		*33*	*12-120*			
Terphenyl-d14	*18.1*		*ug/l*	*20.0*		*91*	*44-129*			
LCS (W3B0259-BS1)				**Prepared: 02/03/23 Analyzed: 03/02/23**						
1,2,4-Trichlorobenzene	16.8	1.0	ug/l	20.0		84	57-130			
1,2-Dichlorobenzene	17.3	1.0	ug/l	20.0		86	57-120			
1,3-Dichlorobenzene	15.4	1.0	ug/l	20.0		77	55-120			
1,4-Dichlorobenzene	17.4	1.0	ug/l	20.0		87	55-120			
2,4,6-Trichlorophenol	18.1	1.0	ug/l	20.0		91	52-129			
2,4-Dichlorophenol	18.3	1.0	ug/l	20.0		91	53-122			
2,4-Dimethylphenol	14.4	1.0	ug/l	20.0		72	42-120			
2,4-Dinitrophenol	19.4	10	ug/l	20.0		97	0.1-173			
2,4-Dinitrotoluene	20.5	1.0	ug/l	20.0		103	48-127			
2,6-Dinitrotoluene	17.1	1.0	ug/l	20.0		86	68-137			
2-Chloronaphthalene	17.5	1.0	ug/l	20.0		88	65-120			
2-Chlorophenol	16.4	1.0	ug/l	20.0		82	36-120			
2-Methyl-4,6-dinitrophenol	20.0	5.0	ug/l	20.0		100	53-130			

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Project Manager: Rachael Morgan

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Quality Control Results

(Continued)

Acid and Base/Neutral Extractables by GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W3B0259 - EPA 625.1 (Continued)										
LCS (W3B0259-BS1)				**Prepared: 02/03/23**	**Analyzed: 03/02/23**					
2-Nitrophenol	19.1	1.0	ug/l	20.0		96	45-167			
3,3'-Dichlorobenzidine	11.8	5.0	ug/l	20.0		59	8-213			
4-Bromophenyl phenyl ether	17.2	1.0	ug/l	20.0		86	65-120			
4-Chloro-3-methylphenol	18.1	1.0	ug/l	20.0		91	41-128			
4-Chlorophenyl phenyl ether	16.3	1.0	ug/l	20.0		81	38-145			
4-Nitrophenol	6.99	5.0	ug/l	20.0		35	13-129			
Acenaphthene	19.1	1.0	ug/l	20.0		96	60-132			
Acenaphthylene	18.8	1.0	ug/l	20.0		94	54-126			
Anthracene	18.9	1.0	ug/l	20.0		94	43-120			
Benzo (a) anthracene	19.4	1.0	ug/l	20.0		97	42-133			
Benzo (a) pyrene	22.0	1.0	ug/l	20.0		110	32-148			
Benzo (b) fluoranthene	20.9	1.0	ug/l	20.0		104	42-140			AN-IP
Benzo (g,h,i) perylene	24.0	2.0	ug/l	20.0		120	0.1-195			
Benzo (k) fluoranthene	19.6	1.0	ug/l	20.0		98	25-146			AN-IP
Bis(2-chloroethoxy)methane	20.2	1.0	ug/l	20.0		101	49-165			
Bis(2-chloroethyl)ether	16.5	1.0	ug/l	20.0		83	43-126			
Bis(2-chloroisopropyl)ether	19.9	1.0	ug/l	20.0		100	63-139			
Bis(2-ethylhexyl)phthalate	20.7	5.0	ug/l	20.0		104	29-137			
Butyl benzyl phthalate	20.2	1.0	ug/l	20.0		101	0.1-140			
Chrysene	18.5	1.0	ug/l	20.0		93	44-140			
Dibenzo (a,h) anthracene	17.4	2.0	ug/l	20.0		87	0.1-200			
Diethyl phthalate	17.2	1.0	ug/l	20.0		86	0.1-120			
Dimethyl phthalate	17.3	1.0	ug/l	20.0		86	0.1-120			
Di-n-butyl phthalate	18.4	1.0	ug/l	20.0		92	8-120			
Di-n-octyl phthalate	20.4	1.0	ug/l	20.0		102	19-132			
Fluoranthene	19.3	1.0	ug/l	20.0		96	43-121			
Fluorene	17.6	1.0	ug/l	20.0		88	70-120			
Hexachlorobenzene	16.9	1.0	ug/l	20.0		85	8-142			
Hexachlorobutadiene	17.2	1.0	ug/l	20.0		86	38-120			
Hexachlorocyclopentadiene	12.6	5.0	ug/l	20.0		63	10-120			
Hexachloroethane	15.9	1.0	ug/l	20.0		79	55-120			
Indeno (1,2,3-cd) pyrene	19.8	2.0	ug/l	20.0		99	0.1-151			
Isophorone	17.7	1.0	ug/l	20.0		88	47-180			
Naphthalene	17.3	1.0	ug/l	20.0		86	36-120			
Nitrobenzene	18.8	1.0	ug/l	20.0		94	54-158			
N-Nitrosodimethylamine	10.9	1.0	ug/l	20.0		55	22-120			
N-Nitrosodi-n-propylamine	18.7	1.0	ug/l	20.0		94	14-198			
N-Nitrosodiphenylamine	14.1	1.0	ug/l	20.0		70	47-120			
Pentachlorophenol	19.0	1.0	ug/l	20.0		95	41-120			

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Quality Control Results

(Continued)

Acid and Base/Neutral Extractables by GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W3B0259 - EPA 625.1 (Continued)										
LCS (W3B0259-BS1)				**Prepared: 02/03/23**	**Analyzed: 03/02/23**					
Phenanthrene	19.4	1.0	ug/l	20.0		97	65-120			
Phenol	6.79	1.0	ug/l	20.0		34	17-120			
Pyrene	17.9	1.0	ug/l	20.0		89	70-120			
Surrogate(s)										
2,4,6-Tribromophenol	*33.6*		*ug/l*	*40.0*		*84*	*25-120*			
2-Fluorobiphenyl	*15.9*		*ug/l*	*20.0*		*80*	*22-120*			
2-Fluorophenol	*19.7*		*ug/l*	*40.0*		*49*	*17-120*			
Nitrobenzene-d5	*18.2*		*ug/l*	*20.0*		*91*	*47-120*			
Phenol-d5	*13.2*		*ug/l*	*40.0*		*33*	*12-120*			
Terphenyl-d14	*19.2*		*ug/l*	*20.0*		*96*	*44-129*			
Matrix Spike (W3B0259-MS1)	**Source: 3B01010-01**			**Prepared: 02/03/23**	**Analyzed: 03/02/23**					
1,2,4-Trichlorobenzene	16.7	1.0	ug/l	20.0	ND	83	44-142			
1,2-Dichlorobenzene	17.8	1.0	ug/l	20.0	ND	89	51-120			
1,3-Dichlorobenzene	15.2	1.0	ug/l	20.0	ND	76	37-120			
1,4-Dichlorobenzene	17.2	1.0	ug/l	20.0	ND	86	39-120			
2,4,6-Trichlorophenol	17.8	1.0	ug/l	20.0	ND	89	37-144			
2,4-Dichlorophenol	17.8	1.0	ug/l	20.0	ND	89	39-135			
2,4-Dimethylphenol	15.3	1.0	ug/l	20.0	ND	77	32-120			
2,4-Dinitrophenol	20.3	10	ug/l	20.0	ND	101	0.1-191			
2,4-Dinitrotoluene	20.3	1.0	ug/l	20.0	ND	102	39-139			
2,6-Dinitrotoluene	17.4	1.0	ug/l	20.0	ND	87	50-158			
2-Chloronaphthalene	17.1	1.0	ug/l	20.0	ND	85	60-120			
2-Chlorophenol	16.1	1.0	ug/l	20.0	ND	80	23-134			
2-Methyl-4,6-dinitrophenol	20.3	5.0	ug/l	20.0	ND	102	0.1-181			
2-Nitrophenol	18.6	1.0	ug/l	20.0	ND	93	29-182			
3,3'-Dichlorobenzidine	3.55	5.0	ug/l	20.0	ND	18	0.1-262			
4-Bromophenyl phenyl ether	17.5	1.0	ug/l	20.0	ND	87	53-127			
4-Chloro-3-methylphenol	18.2	1.0	ug/l	20.0	ND	91	22-147			
4-Chlorophenyl phenyl ether	15.7	1.0	ug/l	20.0	ND	78	25-158			
4-Nitrophenol	8.17	5.0	ug/l	20.0	ND	41	0.1-132			
Acenaphthene	18.6	1.0	ug/l	20.0	ND	93	47-145			
Acenaphthylene	18.2	1.0	ug/l	20.0	ND	91	33-145			
Anthracene	19.0	1.0	ug/l	20.0	ND	95	27-133			
Benzo (a) anthracene	19.9	1.0	ug/l	20.0	ND	100	33-143			
Benzo (a) pyrene	22.1	1.0	ug/l	20.0	ND	111	17-163			
Benzo (b) fluoranthene	21.1	1.0	ug/l	20.0	ND	105	24-159			AN-IP
Benzo (g,h,i) perylene	24.4	2.0	ug/l	20.0	ND	122	0.1-219			
Benzo (k) fluoranthene	19.6	1.0	ug/l	20.0	ND	98	11-162			AN-IP
Bis(2-chloroethoxy)methane	19.6	1.0	ug/l	20.0	ND	98	33-184			

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Quality Control Results

(Continued)

Acid and Base/Neutral Extractables by GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W3B0259 - EPA 625.1 (Continued)										
Matrix Spike (W3B0259-MS1)	**Source: 3B01010-01**			**Prepared: 02/03/23**	**Analyzed: 03/02/23**					
Bis(2-chloroethyl)ether	15.8	1.0	ug/l	20.0	ND	79	12-158			
Bis(2-chloroisopropyl)ether	19.3	1.0	ug/l	20.0	ND	97	36-166			
Bis(2-ethylhexyl)phthalate	21.1	5.0	ug/l	20.0	ND	105	8-158			
Butyl benzyl phthalate	20.7	1.0	ug/l	20.0	ND	103	0.1-152			
Chrysene	18.6	1.0	ug/l	20.0	ND	93	17-168			
Dibenzo (a,h) anthracene	17.8	2.0	ug/l	20.0	0.328	88	0.1-227			
Diethyl phthalate	17.0	1.0	ug/l	20.0	ND	85	0.1-120			
Dimethyl phthalate	17.2	1.0	ug/l	20.0	ND	86	0.1-120			
Di-n-butyl phthalate	18.6	1.0	ug/l	20.0	ND	93	1-120			
Di-n-octyl phthalate	20.5	1.0	ug/l	20.0	ND	103	4-146			
Fluoranthene	19.2	1.0	ug/l	20.0	ND	96	26-137			
Fluorene	17.6	1.0	ug/l	20.0	ND	88	59-121			
Hexachlorobenzene	17.4	1.0	ug/l	20.0	ND	87	0.1-152			
Hexachlorobutadiene	17.0	1.0	ug/l	20.0	ND	85	24-120			
Hexachlorocyclopentadiene	12.7	5.0	ug/l	20.0	ND	64	10-120			
Hexachloroethane	15.5	1.0	ug/l	20.0	ND	78	40-120			
Indeno (1,2,3-cd) pyrene	20.2	2.0	ug/l	20.0	0.421	99	0.1-171			
Isophorone	17.1	1.0	ug/l	20.0	ND	85	21-196			
Naphthalene	16.6	1.0	ug/l	20.0	ND	83	21-133			
Nitrobenzene	18.2	1.0	ug/l	20.0	ND	91	35-180			
N-Nitrosodimethylamine	10.7	1.0	ug/l	20.0	ND	53	18-120			
N-Nitrosodi-n-propylamine	18.1	1.0	ug/l	20.0	ND	91	0.1-230			
N-Nitrosodiphenylamine	13.8	1.0	ug/l	20.0	ND	69	49-120			
Pentachlorophenol	19.3	1.0	ug/l	20.0	ND	96	0.1-133			
Phenanthrene	19.4	1.0	ug/l	20.0	ND	97	54-120			
Phenol	9.15	1.0	ug/l	20.0	ND	46	5-120			
Pyrene	18.6	1.0	ug/l	20.0	ND	93	52-120			
Surrogate(s)										
2,4,6-Tribromophenol	*33.1*		*ug/l*	*40.0*		*83*	*25-120*			
2-Fluorobiphenyl	*15.4*		*ug/l*	*20.0*		*77*	*22-120*			
2-Fluorophenol	*23.0*		*ug/l*	*40.0*		*58*	*17-120*			
Nitrobenzene-d5	*18.0*		*ug/l*	*20.0*		*90*	*47-120*			
Phenol-d5	*18.2*		*ug/l*	*40.0*		*45*	*12-120*			
Terphenyl-d14	*19.6*		*ug/l*	*20.0*		*98*	*44-129*			
Matrix Spike Dup (W3B0259-MSD1)	**Source: 3B01010-01**			**Prepared: 02/03/23**	**Analyzed: 03/02/23**					
1,2,4-Trichlorobenzene	17.8	1.0	ug/l	20.0	ND	89	44-142	6	30	
1,2-Dichlorobenzene	19.2	1.0	ug/l	20.0	ND	96	51-120	8	30	
1,3-Dichlorobenzene	16.6	1.0	ug/l	20.0	ND	83	37-120	9	30	
1,4-Dichlorobenzene	18.6	1.0	ug/l	20.0	ND	93	39-120	8	30	

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Project Manager: Rachael Morgan

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Quality Control Results

(Continued)

Acid and Base/Neutral Extractables by GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W3B0259 - EPA 625.1 (Continued)										
Matrix Spike Dup (W3B0259-MSD1)	**Source: 3B01010-01**			**Prepared: 02/03/23**	**Analyzed: 03/02/23**					
2,4,6-Trichlorophenol	18.1	1.0	ug/l	20.0	ND	91	37-144	2	30	
2,4-Dichlorophenol	18.7	1.0	ug/l	20.0	ND	94	39-135	5	30	
2,4-Dimethylphenol	15.4	1.0	ug/l	20.0	ND	77	32-120	0.6	30	
2,4-Dinitrophenol	21.6	10	ug/l	20.0	ND	108	0.1-191	6	30	
2,4-Dinitrotoluene	21.0	1.0	ug/l	20.0	ND	105	39-139	3	30	
2,6-Dinitrotoluene	17.5	1.0	ug/l	20.0	ND	87	50-158	0.6	30	
2-Chloronaphthalene	18.1	1.0	ug/l	20.0	ND	91	60-120	6	30	
2-Chlorophenol	17.3	1.0	ug/l	20.0	ND	87	23-134	8	30	
2-Methyl-4,6-dinitrophenol	20.9	5.0	ug/l	20.0	ND	104	0.1-181	3	30	
2-Nitrophenol	20.1	1.0	ug/l	20.0	ND	101	29-182	8	30	
3,3'-Dichlorobenzidine	4.43	5.0	ug/l	20.0	ND	22	0.1-262	22	30	
4-Bromophenyl phenyl ether	17.9	1.0	ug/l	20.0	ND	89	53-127	2	30	
4-Chloro-3-methylphenol	19.0	1.0	ug/l	20.0	ND	95	22-147	4	30	
4-Chlorophenyl phenyl ether	16.7	1.0	ug/l	20.0	ND	83	25-158	6	30	
4-Nitrophenol	8.72	5.0	ug/l	20.0	ND	44	0.1-132	6	30	
Acenaphthene	19.7	1.0	ug/l	20.0	ND	98	47-145	6	30	
Acenaphthylene	18.5	1.0	ug/l	20.0	ND	93	33-145	2	30	
Anthracene	19.2	1.0	ug/l	20.0	ND	96	27-133	1	30	
Benzo (a) anthracene	19.8	1.0	ug/l	20.0	ND	99	33-143	0.7	30	
Benzo (a) pyrene	21.7	1.0	ug/l	20.0	ND	109	17-163	2	30	
Benzo (b) fluoranthene	21.0	1.0	ug/l	20.0	ND	105	24-159	0.3	30	AN-IP
Benzo (g,h,i) perylene	24.3	2.0	ug/l	20.0	ND	122	0.1-219	0.4	30	
Benzo (k) fluoranthene	20.5	1.0	ug/l	20.0	ND	102	11-162	4	30	AN-IP
Bis(2-chloroethoxy)methane	20.8	1.0	ug/l	20.0	ND	104	33-184	6	30	
Bis(2-chloroethyl)ether	17.2	1.0	ug/l	20.0	ND	86	12-158	8	30	
Bis(2-chloroisopropyl)ether	21.4	1.0	ug/l	20.0	ND	107	36-166	10	30	
Bis(2-ethylhexyl)phthalate	26.0	5.0	ug/l	20.0	ND	130	8-158	21	30	
Butyl benzyl phthalate	20.8	1.0	ug/l	20.0	ND	104	0.1-152	0.5	30	
Chrysene	19.5	1.0	ug/l	20.0	ND	98	17-168	5	30	
Dibenzo (a,h) anthracene	17.4	2.0	ug/l	20.0	0.328	85	0.1-227	3	30	
Diethyl phthalate	17.4	1.0	ug/l	20.0	ND	87	0.1-120	2	30	
Dimethyl phthalate	17.5	1.0	ug/l	20.0	ND	88	0.1-120	2	30	
Di-n-butyl phthalate	19.1	1.0	ug/l	20.0	ND	95	1-120	3	30	
Di-n-octyl phthalate	21.2	1.0	ug/l	20.0	ND	106	4-146	3	30	
Fluoranthene	19.7	1.0	ug/l	20.0	ND	98	26-137	3	30	
Fluorene	18.1	1.0	ug/l	20.0	ND	91	59-121	3	30	
Hexachlorobenzene	18.1	1.0	ug/l	20.0	ND	90	0.1-152	4	30	
Hexachlorobutadiene	18.3	1.0	ug/l	20.0	ND	91	24-120	7	30	
Hexachlorocyclopentadiene	12.1	5.0	ug/l	20.0	ND	60	10-120	5	30	

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Project Manager: Rachael Morgan

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Quality Control Results

(Continued)

Acid and Base/Neutral Extractables by GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W3B0259 - EPA 625.1 (Continued)										
Matrix Spike Dup (W3B0259-MSD1)	**Source: 3B01010-01**			**Prepared: 02/03/23**	**Analyzed: 03/02/23**					
Hexachloroethane	16.9	1.0	ug/l	20.0	ND	84	40-120	8	30	
Indeno (1,2,3-cd) pyrene	20.8	2.0	ug/l	20.0	0.421	102	0.1-171	3	30	
Isophorone	18.1	1.0	ug/l	20.0	ND	91	21-196	6	30	
Naphthalene	17.8	1.0	ug/l	20.0	ND	89	21-133	7	30	
Nitrobenzene	19.2	1.0	ug/l	20.0	ND	96	35-180	6	30	
N-Nitrosodimethylamine	11.6	1.0	ug/l	20.0	ND	58	18-120	8	30	
N-Nitrosodi-n-propylamine	19.6	1.0	ug/l	20.0	ND	98	0.1-230	8	30	
N-Nitrosodiphenylamine	14.1	1.0	ug/l	20.0	ND	71	49-120	2	30	
Pentachlorophenol	19.4	1.0	ug/l	20.0	ND	97	0.1-133	0.3	30	
Phenanthrene	19.7	1.0	ug/l	20.0	ND	99	54-120	2	30	
Phenol	9.60	1.0	ug/l	20.0	ND	48	5-120	5	30	
Pyrene	18.6	1.0	ug/l	20.0	ND	93	52-120	0.04	30	
Surrogate(s)										
2,4,6-Tribromophenol	*33.6*		*ug/l*	*40.0*		*84*	*25-120*			
2-Fluorobiphenyl	*16.0*		*ug/l*	*20.0*		*80*	*22-120*			
2-Fluorophenol	*23.4*		*ug/l*	*40.0*		*58*	*17-120*			
Nitrobenzene-d5	*19.2*		*ug/l*	*20.0*		*96*	*47-120*			
Phenol-d5	*19.1*		*ug/l*	*40.0*		*48*	*12-120*			
Terphenyl-d14	*19.7*		*ug/l*	*20.0*		*99*	*44-129*			

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Project Manager: Rachael Morgan

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Quality Control Results

(Continued)

Chlorinated Pesticides and/or PCBs by GC/ECD

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W3B0399 - EPA 608.3										
Blank (W3B0399-BLK1)				**Prepared: 02/06/23 Analyzed: 02/15/23**						
4,4´-DDD	ND	0.050	ug/l							
4,4´-DDE	ND	0.050	ug/l							
4,4´-DDT	ND	0.010	ug/l							
Aldrin	ND	0.0050	ug/l							
alpha-BHC	ND	0.010	ug/l							
Aroclor 1016	ND	0.50	ug/l							
Aroclor 1221	ND	0.50	ug/l							
Aroclor 1232	ND	0.50	ug/l							
Aroclor 1242	ND	0.50	ug/l							
Aroclor 1248	ND	0.50	ug/l							
Aroclor 1254	ND	0.50	ug/l							
Aroclor 1260	ND	0.50	ug/l							
beta-BHC	ND	0.0050	ug/l							
Chlordane (tech)	ND	0.10	ug/l							
delta-BHC	ND	0.0050	ug/l							
Dieldrin	ND	0.010	ug/l							
Endosulfan I	ND	0.020	ug/l							
Endosulfan II	ND	0.010	ug/l							
Endosulfan sulfate	ND	0.050	ug/l							
Endrin	ND	0.010	ug/l							
Endrin aldehyde	ND	0.010	ug/l							
gamma-BHC (Lindane)	ND	0.020	ug/l							
Heptachlor	ND	0.010	ug/l							
Heptachlor epoxide	ND	0.010	ug/l							
Mirex	ND	0.010	ug/l							
Toxaphene	ND	0.50	ug/l							
Surrogate(s)										
Decachlorobiphenyl	*0.0675*		*ug/l*	*0.100*		*67*	*33-133*			
Tetrachloro-meta-xylene	*0.0595*		*ug/l*	*0.100*		*59*	*32-130*			
LCS (W3B0399-BS1)				**Prepared: 02/06/23 Analyzed: 02/15/23**						
4,4´-DDD	0.0760	0.050	ug/l	0.100		76	48-130			
4,4´-DDE	0.0678	0.050	ug/l	0.100		68	54-130			
4,4´-DDT	0.0736	0.010	ug/l	0.100		74	46-137			
Aldrin	0.0613	0.0050	ug/l	0.100		61	54-130			
alpha-BHC	0.0692	0.010	ug/l	0.100		69	49-130			
beta-BHC	0.0747	0.0050	ug/l	0.100		75	39-130			
delta-BHC	0.0763	0.0050	ug/l	0.100		76	51-130			
Dieldrin	0.0642	0.010	ug/l	0.100		64	58-130			
Endosulfan I	0.0663	0.020	ug/l	0.100		66	57-141			

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Quality Control Results

(Continued)

Chlorinated Pesticides and/or PCBs by GC/ECD (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W3B0399 - EPA 608.3 (Continued)										
LCS (W3B0399-BS1)				**Prepared: 02/06/23 Analyzed: 02/15/23**						
Endosulfan II	0.0708	0.010	ug/l	0.100		71	22-171			
Endosulfan sulfate	0.0705	0.050	ug/l	0.100		70	38-132			
Endrin	0.0776	0.010	ug/l	0.100		78	51-130			
Endrin aldehyde	0.0684	0.010	ug/l	0.100		68	18-130			
gamma-BHC (Lindane)	0.0720	0.020	ug/l	0.100		72	43-130			
Heptachlor	0.0688	0.010	ug/l	0.100		69	43-130			
Heptachlor epoxide	0.0744	0.010	ug/l	0.100		74	57-132			
Surrogate(s)										
Decachlorobiphenyl	*0.0735*		*ug/l*	*0.100*		*74*	*33-133*			
Tetrachloro-meta-xylene	*0.0583*		*ug/l*	*0.100*		*58*	*32-130*			
LCS Dup (W3B0399-BSD1)				**Prepared: 02/06/23 Analyzed: 02/15/23**						
4,4´-DDD	0.0924	0.050	ug/l	0.100		92	48-130	20	30	
4,4´-DDE	0.0815	0.050	ug/l	0.100		82	54-130	18	30	
4,4´-DDT	0.0917	0.010	ug/l	0.100		92	46-137	22	30	
Aldrin	0.0707	0.0050	ug/l	0.100		71	54-130	14	30	
alpha-BHC	0.0848	0.010	ug/l	0.100		85	49-130	20	30	
beta-BHC	0.0888	0.0050	ug/l	0.100		89	39-130	17	30	
delta-BHC	0.0924	0.0050	ug/l	0.100		92	51-130	19	30	
Dieldrin	0.0770	0.010	ug/l	0.100		77	58-130	18	30	
Endosulfan I	0.0793	0.020	ug/l	0.100		79	57-141	18	30	
Endosulfan II	0.0856	0.010	ug/l	0.100		86	22-171	19	30	
Endosulfan sulfate	0.0863	0.050	ug/l	0.100		86	38-132	20	30	
Endrin	0.0938	0.010	ug/l	0.100		94	51-130	19	30	
Endrin aldehyde	0.0791	0.010	ug/l	0.100		79	18-130	15	30	
gamma-BHC (Lindane)	0.0868	0.020	ug/l	0.100		87	43-130	19	30	
Heptachlor	0.0796	0.010	ug/l	0.100		80	43-130	15	30	
Heptachlor epoxide	0.0902	0.010	ug/l	0.100		90	57-132	19	30	
Surrogate(s)										
Decachlorobiphenyl	*0.0808*		*ug/l*	*0.100*		*81*	*33-133*			
Tetrachloro-meta-xylene	*0.0731*		*ug/l*	*0.100*		*73*	*32-130*			

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Project Manager: Rachael Morgan

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Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W3B0155 - EPA 624.1										
Blank (W3B0155-BLK1)				**Prepared & Analyzed: 02/02/23**						
1,1,1-Trichloroethane	ND	1.0	ug/l							
1,1,2,2-Tetrachloroethane	ND	1.0	ug/l							
1,1,2-Trichloroethane	ND	1.0	ug/l							
1,1-Dichloroethane	ND	1.0	ug/l							
1,1-Dichloroethene	ND	1.0	ug/l							
1,2-Dichloroethane	ND	1.0	ug/l							
1,2-Dichloropropane	ND	1.0	ug/l							
2-Butanone	ND	5.0	ug/l							
2-Chloroethyl vinyl ether	ND	1.0	ug/l							
2-Hexanone	ND	5.0	ug/l							
4-Methyl-2-pentanone	ND	5.0	ug/l							
Acetone	ND	5.0	ug/l							
Acrolein	ND	5.0	ug/l							
Acrylonitrile	ND	2.0	ug/l							
Benzene	ND	1.0	ug/l							
Bromodichloromethane	ND	1.0	ug/l							
Bromoform	ND	1.0	ug/l							
Bromomethane	ND	1.0	ug/l							
Carbon Disulfide	ND	1.0	ug/l							
Carbon tetrachloride	ND	1.0	ug/l							
Chlorobenzene	ND	1.0	ug/l							
Chloroethane	ND	1.0	ug/l							
Chloroform	ND	1.0	ug/l							
Chloromethane	ND	1.0	ug/l							
cis-1,3-Dichloropropene	ND	1.0	ug/l							
Dibromochloromethane	ND	1.0	ug/l							
Dichlorodifluoromethane (Freon 12)	ND	1.0	ug/l							
Ethylbenzene	ND	1.0	ug/l							
m-Dichlorobenzene	ND	1.0	ug/l							
Methyl tert-butyl ether (MTBE)	ND	1.0	ug/l							
Methylene chloride	ND	1.0	ug/l							
o-Dichlorobenzene	ND	1.0	ug/l							
p-Dichlorobenzene	ND	1.0	ug/l							
Tetrachloroethene	ND	1.0	ug/l							
Toluene	ND	1.0	ug/l							
trans-1,2-Dichloroethene	ND	1.0	ug/l							
trans-1,3-Dichloropropene	ND	1.0	ug/l							
Trichloroethene	ND	1.0	ug/l							
Trichlorofluoromethane	ND	1.0	ug/l							

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Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W3B0155 - EPA 624.1 (Continued)										
Blank (W3B0155-BLK1)				**Prepared & Analyzed: 02/02/23**						
Vinyl chloride	ND	1.0	ug/l							
Surrogate(s)										
1,2-Dichloroethane-d4	*54.8*		*ug/l*	*50.0*		*110*	*82-125*			
4-Bromofluorobenzene	*47.5*		*ug/l*	*50.0*		*95*	*88-108*			
Toluene-d8	*48.3*		*ug/l*	*50.0*		*97*	*92-112*			
LCS (W3B0155-BS1)				**Prepared & Analyzed: 02/02/23**						
1,1,1-Trichloroethane	52.7	1.0	ug/l	50.0		105	52-162			
1,1,2,2-Tetrachloroethane	52.0	1.0	ug/l	50.0		104	46-157			
1,1,2-Trichloroethane	53.3	1.0	ug/l	50.0		107	52-150			
1,1-Dichloroethane	45.8	1.0	ug/l	50.0		92	59-155			
1,1-Dichloroethene	49.6	1.0	ug/l	50.0		99	0.1-234			
1,2-Dichloroethane	52.3	1.0	ug/l	50.0		105	49-155			
1,2-Dichloropropane	53.7	1.0	ug/l	50.0		107	0.1-210			
2-Butanone	54.9	5.0	ug/l	50.0		110	67-136			
2-Chloroethyl vinyl ether	52.9	1.0	ug/l	50.0		106	0.1-305			
2-Hexanone	57.7	5.0	ug/l	50.0		115	76-133			
4-Methyl-2-pentanone	51.7	5.0	ug/l	50.0		103	74-132			
Acetone	517	5.0	ug/l	500		103	60-147			
Acrolein	48.3	5.0	ug/l	50.0		97	49-152			
Acrylonitrile	45.5	2.0	ug/l	50.0		91	74-127			
Benzene	52.4	1.0	ug/l	50.0		105	37-151			
Bromodichloromethane	57.6	1.0	ug/l	50.0		115	35-155			
Bromoform	60.1	1.0	ug/l	50.0		120	45-169			
Bromomethane	53.4	1.0	ug/l	50.0		107	0.1-242			
Carbon Disulfide	47.8	1.0	ug/l	50.0		96	79-118			
Carbon tetrachloride	57.3	1.0	ug/l	50.0		115	70-140			
Chlorobenzene	51.7	1.0	ug/l	50.0		103	37-160			
Chloroethane	47.2	1.0	ug/l	50.0		94	14-230			
Chloroform	52.0	1.0	ug/l	50.0		104	51-138			
Chloromethane	44.7	1.0	ug/l	50.0		89	0.1-273			
cis-1,2-Dichloroethene	53.4	1.0	ug/l	50.0		107	85-121			
cis-1,3-Dichloropropene	54.4	1.0	ug/l	50.0		109	0.1-227			
Dibromochloromethane	56.1	1.0	ug/l	50.0		112	53-149			
Dichlorodifluoromethane (Freon 12)	44.1	1.0	ug/l	50.0		88	67-126			
Ethylbenzene	55.2	1.0	ug/l	50.0		110	37-162			
m,p-Xylene	53.2	1.0	ug/l	50.0		106	81-121			
m-Dichlorobenzene	51.9	1.0	ug/l	50.0		104	59-156			
Methyl tert-butyl ether (MTBE)	188	1.0	ug/l	200		94	80-128			
Methylene chloride	44.0	1.0	ug/l	50.0		88	0.1-221			

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Encina Wastewater Authority
6200 Avenida Encinas
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Project Number: 2023 Annual Encina Influent Influent Priority Pollutant Scan

Project Manager: Rachael Morgan

Reported: 03/06/2023 16:16

Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W3B0155 - EPA 624.1 (Continued)										
LCS (W3B0155-BS1)				**Prepared & Analyzed: 02/02/23**						
o-Dichlorobenzene	50.7	1.0	ug/l	50.0		101	18-190			
o-Xylene	53.3	1.0	ug/l	50.0		107	84-121			
p-Dichlorobenzene	50.1	1.0	ug/l	50.0		100	18-190			
Tert-butyl alcohol	181	5.0	ug/l	200		91	53-144			
Tetrachloroethene	59.6	1.0	ug/l	50.0		119	64-148			
Toluene	52.8	1.0	ug/l	50.0		106	47-150			
trans-1,2-Dichloroethene	47.2	1.0	ug/l	50.0		94	54-156			
trans-1,3-Dichloropropene	55.0	1.0	ug/l	50.0		110	17-183			
Trichloroethene	54.2	1.0	ug/l	50.0		108	71-157			
Trichlorofluoromethane	49.8	1.0	ug/l	50.0		100	17-181			
Vinyl chloride	42.5	1.0	ug/l	50.0		85	0.1-251			
Surrogate(s)										
1,2-Dichloroethane-d4	*49.4*		*ug/l*	*50.0*		*99*	*82-125*			
4-Bromofluorobenzene	*49.1*		*ug/l*	*50.0*		*98*	*88-108*			
Toluene-d8	*48.8*		*ug/l*	*50.0*		*98*	*92-112*			
LCS Dup (W3B0155-BSD1)				**Prepared & Analyzed: 02/02/23**						
1,1,1-Trichloroethane	56.7	1.0	ug/l	50.0		113	52-162	7	25	
1,1,2,2-Tetrachloroethane	53.2	1.0	ug/l	50.0		106	46-157	2	25	
1,1,2-Trichloroethane	54.1	1.0	ug/l	50.0		108	52-150	1	25	
1,1-Dichloroethane	48.3	1.0	ug/l	50.0		97	59-155	5	25	
1,1-Dichloroethene	51.2	1.0	ug/l	50.0		102	0.1-234	3	25	
1,2-Dichloroethane	53.5	1.0	ug/l	50.0		107	49-155	2	25	
1,2-Dichloropropane	54.9	1.0	ug/l	50.0		110	0.1-210	2	25	
2-Butanone	57.1	5.0	ug/l	50.0		114	67-136	4	25	
2-Chloroethyl vinyl ether	56.3	1.0	ug/l	50.0		113	0.1-305	6	25	
2-Hexanone	56.1	5.0	ug/l	50.0		112	76-133	3	25	
4-Methyl-2-pentanone	51.7	5.0	ug/l	50.0		103	74-132	0.04	25	
Acetone	553	5.0	ug/l	500		111	60-147	7	25	
Acrolein	53.7	5.0	ug/l	50.0		107	49-152	11	25	
Acrylonitrile	49.5	2.0	ug/l	50.0		99	74-127	8	25	
Benzene	52.4	1.0	ug/l	50.0		105	37-151	0.07	25	
Bromodichloromethane	57.0	1.0	ug/l	50.0		114	35-155	1	25	
Bromoform	59.8	1.0	ug/l	50.0		120	45-169	0.4	25	
Bromomethane	49.3	1.0	ug/l	50.0		99	0.1-242	8	25	
Carbon Disulfide	49.8	1.0	ug/l	50.0		100	79-118	4	25	
Carbon tetrachloride	55.7	1.0	ug/l	50.0		111	70-140	3	25	
Chlorobenzene	50.1	1.0	ug/l	50.0		100	37-160	3	25	
Chloroethane	46.0	1.0	ug/l	50.0		92	14-230	3	25	
Chloroform	53.6	1.0	ug/l	50.0		107	51-138	3	25	

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Project Number: 2023 Annual Encina Influent Influent Priority Pollutant Scan

Project Manager: Rachael Morgan

Reported: 03/06/2023 16:16

Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W3B0155 - EPA 624.1 (Continued)										
LCS Dup (W3B0155-BSD1)				**Prepared & Analyzed: 02/02/23**						
Chloromethane	41.2	1.0	ug/l	50.0		82	0.1-273	8	25	
cis-1,2-Dichloroethene	54.8	1.0	ug/l	50.0		110	85-121	3	25	
cis-1,3-Dichloropropene	55.1	1.0	ug/l	50.0		110	0.1-227	1	25	
Dibromochloromethane	58.7	1.0	ug/l	50.0		117	53-149	4	25	
Dichlorodifluoromethane (Freon 12)	42.3	1.0	ug/l	50.0		85	67-126	4	25	
Ethylbenzene	52.2	1.0	ug/l	50.0		104	37-162	6	25	
m,p-Xylene	52.6	1.0	ug/l	50.0		105	81-121	1	25	
m-Dichlorobenzene	50.8	1.0	ug/l	50.0		102	59-156	2	25	
Methyl tert-butyl ether (MTBE)	215	1.0	ug/l	200		107	80-128	13	25	
Methylene chloride	44.7	1.0	ug/l	50.0		89	0.1-221	2	25	
o-Dichlorobenzene	50.9	1.0	ug/l	50.0		102	18-190	0.4	25	
o-Xylene	51.8	1.0	ug/l	50.0		104	84-121	3	25	
p-Dichlorobenzene	50.0	1.0	ug/l	50.0		100	18-190	0.1	25	
Tert-butyl alcohol	232	5.0	ug/l	200		116	53-144	25	25	
Tetrachloroethene	58.1	1.0	ug/l	50.0		116	64-148	3	25	
Toluene	51.6	1.0	ug/l	50.0		103	47-150	2	25	
trans-1,2-Dichloroethene	49.8	1.0	ug/l	50.0		100	54-156	5	25	
trans-1,3-Dichloropropene	56.5	1.0	ug/l	50.0		113	17-183	3	25	
Trichloroethene	56.1	1.0	ug/l	50.0		112	71-157	3	25	
Trichlorofluoromethane	52.0	1.0	ug/l	50.0		104	17-181	4	25	
Vinyl chloride	42.0	1.0	ug/l	50.0		84	0.1-251	1	25	
Surrogate(s)										
1,2-Dichloroethane-d4	*50.3*		*ug/l*	*50.0*		*101*	*82-125*			
4-Bromofluorobenzene	*47.6*		*ug/l*	*50.0*		*95*	*88-108*			
Toluene-d8	*51.1*		*ug/l*	*50.0*		*102*	*92-112*			
Matrix Spike (W3B0155-MS1)	**Source: 3B01011-01RE1**			**Prepared & Analyzed: 02/02/23**						
1,1,1-Trichloroethane	57.7	1.0	ug/l	50.0	ND	115	52-162			
1,1,2,2-Tetrachloroethane	51.1	1.0	ug/l	50.0	ND	102	46-157			
1,1,2-Trichloroethane	58.1	1.0	ug/l	50.0	ND	116	52-150			
1,1-Dichloroethane	54.9	1.0	ug/l	50.0	ND	110	59-155			
1,1-Dichloroethene	58.1	1.0	ug/l	50.0	ND	116	0.1-234			
1,2-Dichloroethane	55.7	1.0	ug/l	50.0	ND	111	49-155			
1,2-Dichloropropane	56.9	1.0	ug/l	50.0	ND	114	0.1-210			
2-Butanone	70.6	5.0	ug/l	50.0	ND	141	36-145			
2-Chloroethyl vinyl ether	54.7	1.0	ug/l	50.0	ND	109	0.1-305			
2-Hexanone	69.0	5.0	ug/l	50.0	ND	138	46-152			
4-Methyl-2-pentanone	58.2	5.0	ug/l	50.0	ND	116	54-146			
Acetone	873	5.0	ug/l	500	ND	175	11-169			MS-05
Acrolein	48.3	5.0	ug/l	50.0	ND	97	5-170			

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Project Number: 2023 Annual Encina Influent Influent Priority Pollutant Scan

Project Manager: Rachael Morgan

Reported: 03/06/2023 16:16

Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W3B0155 - EPA 624.1 (Continued)										
Matrix Spike (W3B0155-MS1)	**Source: 3B01011-01RE1**			**Prepared & Analyzed: 02/02/23**						
Acrylonitrile	56.2	2.0	ug/l	50.0	ND	112	59-133			
Benzene	56.6	1.0	ug/l	50.0	ND	113	37-151			
Bromodichloromethane	59.3	1.0	ug/l	50.0	ND	119	35-155			
Bromoform	64.3	1.0	ug/l	50.0	1.48	126	45-169			
Bromomethane	49.5	1.0	ug/l	50.0	ND	99	0.1-242			
Carbon tetrachloride	60.9	1.0	ug/l	50.0	ND	122	70-140			
Chlorobenzene	54.4	1.0	ug/l	50.0	ND	109	37-160			
Chloroethane	50.1	1.0	ug/l	50.0	ND	100	14-230			
Chloroform	57.2	1.0	ug/l	50.0	ND	114	51-138			
Chloromethane	45.2	1.0	ug/l	50.0	ND	90	0.1-273			
cis-1,3-Dichloropropene	56.2	1.0	ug/l	50.0	ND	112	0.1-227			
Dibromochloromethane	60.4	1.0	ug/l	50.0	ND	121	53-149			
Dichlorodifluoromethane (Freon 12)	42.6	1.0	ug/l	50.0	ND	85	32-141			
Ethylbenzene	58.0	1.0	ug/l	50.0	ND	116	37-162			
m-Dichlorobenzene	47.8	1.0	ug/l	50.0	ND	96	59-156			
Methylene chloride	44.8	1.0	ug/l	50.0	ND	90	0.1-221			
o-Dichlorobenzene	54.3	1.0	ug/l	50.0	ND	109	18-190			
p-Dichlorobenzene	53.1	1.0	ug/l	50.0	ND	106	18-190			
Tetrachloroethene	70.1	1.0	ug/l	50.0	ND	140	64-148			
Toluene	55.7	1.0	ug/l	50.0	ND	111	47-150			
trans-1,2-Dichloroethene	53.5	1.0	ug/l	50.0	ND	107	54-156			
trans-1,3-Dichloropropene	56.4	1.0	ug/l	50.0	ND	113	17-183			
Trichloroethene	57.6	1.0	ug/l	50.0	ND	115	71-157			
Trichlorofluoromethane	53.5	1.0	ug/l	50.0	ND	107	17-181			
Vinyl chloride	45.5	1.0	ug/l	50.0	ND	91	0.1-251			
Surrogate(s)										
1,2-Dichloroethane-d4	*50.7*		*ug/l*	*50.0*		*101*	*82-125*			
4-Bromofluorobenzene	*46.9*		*ug/l*	*50.0*		*94*	*88-108*			
Toluene-d8	*48.7*		*ug/l*	*50.0*		*97*	*92-112*			
Matrix Spike Dup (W3B0155-MSD1)	**Source: 3B01011-01RE1**			**Prepared & Analyzed: 02/02/23**						
1,1,1-Trichloroethane	56.0	1.0	ug/l	50.0	ND	112	52-162	3	25	
1,1,2,2-Tetrachloroethane	51.6	1.0	ug/l	50.0	ND	103	46-157	1	25	
1,1,2-Trichloroethane	55.8	1.0	ug/l	50.0	ND	112	52-150	4	25	
1,1-Dichloroethane	53.6	1.0	ug/l	50.0	ND	107	59-155	3	25	
1,1-Dichloroethene	55.0	1.0	ug/l	50.0	ND	110	0.1-234	5	25	
1,2-Dichloroethane	53.9	1.0	ug/l	50.0	ND	108	49-155	3	25	
1,2-Dichloropropane	56.7	1.0	ug/l	50.0	ND	113	0.1-210	0.3	25	
2-Butanone	74.1	5.0	ug/l	50.0	ND	148	36-145	5	25	MS-05
2-Chloroethyl vinyl ether	55.9	1.0	ug/l	50.0	ND	112	0.1-305	2	25	

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Project Number: 2023 Annual Encina Influent Influent Priority Pollutant Scan

Project Manager: Rachael Morgan

Reported: 03/06/2023 16:16

Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W3B0155 - EPA 624.1 (Continued)										
Matrix Spike Dup (W3B0155-MSD1)	**Source: 3B01011-01RE1**			**Prepared & Analyzed: 02/02/23**						
2-Hexanone	69.0	5.0	ug/l	50.0	ND	138	46-152	0.05	25	
4-Methyl-2-pentanone	56.8	5.0	ug/l	50.0	ND	114	54-146	2	25	
Acetone	915	5.0	ug/l	500	ND	183	11-169	5	25	MS-05
Acrolein	54.5	5.0	ug/l	50.0	ND	109	5-170	12	25	
Acrylonitrile	60.6	2.0	ug/l	50.0	ND	121	59-133	8	25	
Benzene	53.4	1.0	ug/l	50.0	ND	107	37-151	6	25	
Bromodichloromethane	57.3	1.0	ug/l	50.0	ND	115	35-155	4	25	
Bromoform	62.5	1.0	ug/l	50.0	1.48	122	45-169	3	25	
Bromomethane	50.2	1.0	ug/l	50.0	ND	100	0.1-242	1	25	
Carbon tetrachloride	58.6	1.0	ug/l	50.0	ND	117	70-140	4	25	
Chlorobenzene	52.8	1.0	ug/l	50.0	ND	106	37-160	3	25	
Chloroethane	51.4	1.0	ug/l	50.0	ND	103	14-230	3	25	
Chloroform	55.6	1.0	ug/l	50.0	ND	111	51-138	3	25	
Chloromethane	47.0	1.0	ug/l	50.0	ND	94	0.1-273	4	25	
cis-1,3-Dichloropropene	53.7	1.0	ug/l	50.0	ND	107	0.1-227	5	25	
Dibromochloromethane	57.7	1.0	ug/l	50.0	ND	115	53-149	5	25	
Dichlorodifluoromethane (Freon 12)	44.2	1.0	ug/l	50.0	ND	88	32-141	3	25	
Ethylbenzene	57.7	1.0	ug/l	50.0	ND	115	37-162	0.4	25	
m-Dichlorobenzene	51.1	1.0	ug/l	50.0	ND	102	59-156	7	25	
Methylene chloride	47.7	1.0	ug/l	50.0	ND	95	0.1-221	6	25	
o-Dichlorobenzene	52.7	1.0	ug/l	50.0	ND	105	18-190	3	25	
p-Dichlorobenzene	52.3	1.0	ug/l	50.0	ND	105	18-190	1	25	
Tetrachloroethene	67.0	1.0	ug/l	50.0	ND	134	64-148	4	25	
Toluene	52.4	1.0	ug/l	50.0	ND	105	47-150	6	25	
trans-1,2-Dichloroethene	52.0	1.0	ug/l	50.0	ND	104	54-156	3	25	
trans-1,3-Dichloropropene	54.5	1.0	ug/l	50.0	ND	109	17-183	3	25	
Trichloroethene	56.6	1.0	ug/l	50.0	ND	113	71-157	2	25	
Trichlorofluoromethane	52.3	1.0	ug/l	50.0	ND	105	17-181	2	25	
Vinyl chloride	48.1	1.0	ug/l	50.0	ND	96	0.1-251	5	25	
Surrogate(s)										
1,2-Dichloroethane-d4	*49.7*		*ug/l*	*50.0*		*99*	*82-125*			
4-Bromofluorobenzene	*49.9*		*ug/l*	*50.0*		*100*	*88-108*			
Toluene-d8	*49.0*		*ug/l*	*50.0*		*98*	*92-112*			

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Project Number: 2023 Annual Encina Influent Influent Priority Pollutant Scan

Project Manager: Rachael Morgan

Reported: 03/06/2023 16:16

Notes and Definitions

Item	Definition
AN-IP	Sample results for structural isomers may have contribution from their isomeric pair.
M-04	Due to the nature of matrix interferences, sample extract was diluted prior to analysis. The MDL and MRL were raised due to the dilution.
M-05	Due to the nature of matrix interferences, sample was diluted prior to analysis. The MDL and MRL were raised due to the dilution.
MS-05	The spike recovery and/or RPD were outside acceptance limits for the MS and/or MSD due to possible matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
S-04	The surrogate recovery for this sample is outside of established control limits due to possible sample matrix effect.
%REC	Percent Recovery
Dil	Dilution
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ)
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

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Pace Analytical Services, LLC.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

Report Prepared for:

Kim Tu
Weck Laboratories Inc
14859 Clark Avenue
Industry CA 91745

REPORT OF LABORATORY ANALYSIS FOR PCDD/PCDF

Report Information:

Pace Project #: 10644341
Sample Receipt Date: 03/01/2023
Client Project #: 3B09042
Client Sub PO #: N/A
State Cert #: 2929

Invoicing & Reporting Options:

The report provided has been invoiced as a Level 2 PCDD/PCDF Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Joanne Richardson, your Pace Project Manager.

This report has been reviewed by:

Joanne Richardson

March 09, 2023

Joanne Richardson,
(612) 607-6453
(612) 607-6444 (fax)

Report Prepared Date:
March 9, 2023

Report of Laboratory Analysis

Pace Analytical Services, LLC.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

DISCUSSION

This report presents the results from the analysis performed on one sample submitted by a representative of Weck Laboratories, Inc. The sample was analyzed for the presence or absence of polychlorodibenzo-p-dioxins (PCDDs) and polychlorodibenzofurans (PCDFs) using a modified version of USEPA Method 8290. The reporting limits were set to correspond to the lowest calibration points and a nominal 1-liter sample amount, and the sensitivity was verified by signal-to-noise measurements. The quantitation limits, adjusted for sample extraction amount, may be somewhat higher or lower than the reporting limits provided in this report.

The recoveries of the isotopically-labeled PCDD/PCDF internal standards in the sample extract ranged from 73-104%. All of the labeled internal standard recoveries obtained for this project were within the 40-135% target range specified in Method 8290. Since the quantification of the native 2,3,7,8-substituted congeners was based on isotope dilution, the data were automatically corrected for variation in recovery and accurate values were obtained.

A laboratory method blank was prepared and analyzed with the sample batch as part of our routine quality control procedures. The results show the blank to be free of PCDDs and PCDFs at the reporting limits.

A laboratory spike sample was also prepared with the sample batch using clean reference matrix that had been fortified with native standard materials. The results show that the spiked native compounds were recovered at 88-114%. These results were within the target range for the method. Matrix spikes were prepared with the sample batch using sample material from a separate project; results from these analyses will be provided upon request.

The responses obtained for selected labeled congeners in calibration standard analysis L230307A_19 were outside the target range. As specified in our procedures for this method, the averages of the daily response factors for these compounds were used in the calculations for the samples from this runshift. The affected values were flagged "Y" on the results tables.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
		Missouri	10100
A2LA	2926.01	Montana	CERT0092
Alabama	40770	Nebraska	NE-OS-18-06
Alaska-DW	MN00064	Nevada	MN00064
Alaska-UST	17-009	New Hampshire	2081
Arizona	AZ0014	New Jersey	MN002
Arkansas - WW	88-0680	New York	11647
Arkansas-DW	MN00064	North Carolina-	27700
California	2929	North Carolina-	530
Colorado	MN00064	North Dakota	R-036
Connecticut	PH-0256	Ohio-DW	41244
Florida	E87605	Ohio-VAP (170	CL101
Georgia	959	Ohio-VAP (180	CL110
Hawaii	MN00064	Oklahoma	9507
Idaho	MN00064	Oregon-Primary	MN300001
Illinois	200011	Oregon-Second	MN200001
Indiana	C-MN-01	Pennsylvania	68-00563
Iowa	368	Puerto Rico	MN00064
Kansas	E-10167	South Carolina	74003
Kentucky-DW	90062	Tennessee	TN02818
Kentucky-WW	90062	Texas	T104704192
Louisiana-DEQ	AI-84596	Utah	MN00064
Louisiana-DW	MN00064	Vermont	VT-027053137
Maine	MN00064	Virginia	460163
Maryland	322	Washington	C486
Michigan	9909	West Virginia-D	382
Minnesota	027-053-137	West Virginia-D	9952C
Minnesota-Ag	via MN 027-053	Wisconsin	999407970
Minnesota-Petr	1240	Wyoming-UST	via A2LA 2926.
Mississippi	MN00064		

REPORT OF LABORATORY ANALYSIS

Report No.....10644059

Pace Analytical Services, LLC
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444
www.pacelabs.com

Appendix A

Sample Management

REPORT OF LABORATORY ANALYSIS

WECK LABORATORIES, INC.

WO# : 10644341

10644341

:t Order

Subcontracted Laboratory:

Pace Analytical Services - Minneapolis MN
1700 Elm St. SE, Suite 200
Minneapolis, MN 55414
Phone: (612) 607-1700
Fax:

] in comments

Client Manager: Kim G. Tu (P)
Project Name: Encina WW Authority
Sampler Employed by: _____
Drinking Water: Yes / (No)
Need Transfer File (xls): (Yes) / No
Tracking Number: _____

Project Number: 3B09042

Analysis	Expires	Comments
Sample Name: 3B09042-01/Meadowlark Failsafe		
Sampled: 02/08/2023 07:00	Matrix: Water	Sampled By: JC
Dioxins/Furans - EPA 8290	03/10/2023 07:00	

001

Remarks / Special Comments:

Sample Condition
Temperature: 10, 1.8
Preserved: Yes / No
Evidence Seal Intact: Yes / No
Container Attacked: Yes / No
Preserved at Lab: Yes / No

Relinqished By	Date / Time	Received By	Date / Time
Mideri Paniagua	02/28	Fed Ex	
		M Pena	3/1/23 10:38

Page 1 of 1

Sample Condition Upon Receipt

Client Name: Week labs

Project #: WO#: 10644341

PM: JMR Due Date: 03/15/23

CLIENT: Week Laborat

Courier: ☑ FedEx ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ SpeeDee ☐ Commercial

Tracking Number: 7214 3440 4648 4637 ☐ See Exceptions ENV-FRM-MIN4-0142

Custody Seal on Cooler/Box Present? ☐ Yes ☒ No **Seals Intact?** ☐ Yes ☑ No **Biological Tissue Frozen?** ☐ Yes ☐ No ☒ N/A

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other **Temp Blank?** ☐ Yes ☒ No

Thermometer: ☐ T1 (0461) ☐ T2 (1336) ☐ T3 (0459) ☐ T4 (0254) ☐ T5 (0178) ☐ T6 (0235) ☐ T7 (0042) ☐ T8 (0775) ☐ T9(0727) ☐ 01339252/1710 **Type of Ice:** ☑ Wet ☐ Blue ☐ Dry ☐ None ☐ Melted

Did Samples Originate in West Virginia? ☐ Yes ☒ No **Were All Container Temps Taken?** ☐ Yes ☐ No ☒ N/A

Temp should be above freezing to 6 °C **Cooler temp Read w/Temp Blank:** _____ °C

Correction Factor: -.1 **Cooler Temp Corrected w/temp blank:** _____ °C

Average Corrected Temp (no temp blank only): 0.1.8 °C ☐ See Exceptions ENV-FRM-MIN4-0142 ☐ 1 Container

USDA Regulated Soil: (☒ N/A, water sample/other: _____)

Date/Initials of Person Examining Contents: 3/1/23 NF

Did samples originate in a quarantine zone within the United States: AL, AR, AZ CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MIN4-0154) and include with SCUR/COC paperwork.

Location (Check one): ☐ Duluth ☒ Minneapolis ☐ Virginia

				COMMENTS
Chain of Custody Present and Filled Out?	☑ Yes	☐ No		1.
Chain of Custody Relinquished?	☑ Yes	☐ No		2.
Sampler Name and/or Signature on COC?	☐ Yes	☐ No	☑ N/A	3.
Samples Arrived within Hold Time?	☑ Yes	☐ No		4. If fecal: ☐ <8 hrs ☐ >8 hr, <24 ☐ No
Short Hold Time Analysis (<72 hr)?	☐ Yes	☑ No		5. ☐ Fecal Coliform ☐ HPC ☐ Total Coliform/E.coli ☐ BOD/cBOD ☐ Hex Chrom ☐ Turbidity ☐ Nitrate ☐ Nitrite ☐ Orthophos ☐ Other
Rush Turn Around Time Requested?	☐ Yes	☑ No		6.
Sufficient Sample Volume?	☑ Yes	☐ No		7.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	8.
-Pace Containers Used?	☐ Yes	☑ No		
Containers Intact?	☑ Yes	☐ No		9.
Field Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☑ N/A	10. Is sediment visible in the dissolved container? ☐ Yes ☐ No
Is sufficient information available to reconcile the samples to the COC?	☑ Yes	☐ No		11. **If no, write ID/Date/Time of container below:** ☐ See Exceptions ENV-FRM-MIN4-0142
Matrix: ☑ Water ☐ Soil ☐ Oil ☐ Other				
All containers needing acid/base preservation have been checked?	☐ Yes	☐ No	☑ N/A	12. Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO3, H2SO4, <2pH, NaOH >9 Sulfide, NaOH>10 Cyanide)	☐ Yes	☐ No	☑ N/A	☐ NaOH ☐ HNO3 ☐ H2SO4 ☐ Zinc Acetate
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxins/PFAS (*If adding preservative to a container, it must be added to associated field and equipment blanks--verify with PM first.)	☑ Yes	☐ No	☐ N/A	Positive for Residual Chlorine? ☐ Yes ☐ No ☐ See Exceptions ENV-FRM-MIN4-0142
				pH Paper Lot #
				Residual Chlorine | 0-6 Roll | 0-6 Strip | 0-14 Strip
Headspace in Methyl Mercury Container?	☐ Yes	☐ No	☑ N/A	13.
Extra labels present on soil VOA or WIDRO containers?	☐ Yes	☐ No	☑ N/A	14. ☐ See Exceptions ENV-FRM-MIN4-0142
Headspace in VOA Vials (greater than 6mm)?	☐ Yes	☐ No	☑ N/A	
3 Trip Blanks Present?	☐ Yes	☐ No	☑ N/A	15.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	Pace Trip Blank Lot # (if purchased): _____

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: Joanne Richardson **Date:** 3-1-23

NOTE: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled By: NF **Line:** (3)

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-MIN4-0142 v02_Sample Condition Upon Receipt (SCUR) Exception Form
	Effective Date: 09/22/2022

Workorder #: 10644341

No Temp Blank		
Read Temp	**Corrected Temp**	**Average temp**
0.3	0.7	1.0
1.2	1.1	
2.1	2.0	
0.8	0.7	

PM Notified of Out of Temp Cooler? ☐ Yes ☐ No

If yes, indicate who was contacted, date and time.
If no, indicate reason why.

Multiple Cooler Project? ☐ Yes ☐ No

If anything is OVER 6.0° C, you MUST document containers in this section HERE

Tracking Number	Temperature

Out of Temp Sample ID	Container Type	# of Containers

pH Adjustment Log for Preserved Samples

Sample ID	Type Of Preserve	pH Upon Receipt	Date Adjusted	Time Adjusted	Amount Added (mL)	Lot # Added	pH After	In Compliance After Addition?		Initials
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	

Comments:

Qualtrax ID: 52763

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-MIN4-0142 v02_Sample Condition Upon Receipt (SCUR) Exception Form
	Effective Date: 09/22/2022

Workorder #: 10644341

No Temp Blank		
Read Temp	Corrected Temp	Average temp
2.0	1.9	1.8
2.0	1.9	
1.5	1.4	
2.2	2.1	

PM Notified of Out of Temp Cooler? ☐ Yes ☐ No

If yes, indicate who was contacted, date and time.
If no, indicate reason why.

Multiple Cooler Project? ☐ Yes ☐ No

If anything is OVER 6.0° C, you MUST document containers in this section HERE

Tracking Number	Temperature

Out of Temp Sample ID	Container Type	# of Containers

pH Adjustment Log for Preserved Samples										
Sample ID	Type Of Preserve	pH Upon Receipt	Date Adjusted	Time Adjusted	Amount Added (mL)	Lot # Added	pH After	In Compliance After Addition?		Initials
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	

Comments:

Qualtrax ID: 52763

Pace Analytical Services, LLC
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444
www.pacelabs.com

Reporting Flags

A = Reporting Limit based on signal to noise (EDL)

B = Less than 10x higher than method blank level

C = Result obtained from confirmation analysis

D = Result obtained from analysis of diluted sample

E = Exceeds calibration range

H2 = Extracted outside of holding time

I = Isotope ratio out of specification

J = Estimated value

L = Suppressive interference, analyte may be biased low

Nn = Value obtained from additional analysis

P = PCDE Interference

R = Recovery outside target range

S = Peak saturated

U = Analyte not detected

V = Result verified by confirmation analysis

X = %D Exceeds limits

Y = Calculated using average of daily RFs

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444
www.pacelabs.com

Appendix B

Sample Analysis Summary

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Sample Analysis Results

Client - Weck Laboratories Inc

Client's Sample ID	3B09042-01/Meadowlark Failsafe		
Lab Sample ID	10644341001		
Filename	L230305A_14		
Injected By	JRH		
Total Amount Extracted	952 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	02/08/2023 07:00
ICAL ID	L230302	Received	03/01/2023 10:30
CCal Filename(s)	L230305A_01 & L230305A_18	Extracted	03/02/2023 11:02
Method Blank ID	BLANK-104384	Analyzed	03/05/2023 18:44

Native Isomers	Conc pg/L	EMPC pg/L	RL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	10	2,3,7,8-TCDF-13C	2.00	89
Total TCDF	ND	-----	10	2,3,7,8-TCDD-13C	2.00	83
				1,2,3,7,8-PeCDF-13C	2.00	97
2,3,7,8-TCDD	ND	-----	10	2,3,4,7,8-PeCDF-13C	2.00	99
Total TCDD	ND	-----	10	1,2,3,7,8-PeCDD-13C	2.00	104
				1,2,3,4,7,8-HxCDF-13C	2.00	81
1,2,3,7,8-PeCDF	ND	-----	50	1,2,3,6,7,8-HxCDF-13C	2.00	83
2,3,4,7,8-PeCDF	ND	-----	50	2,3,4,6,7,8-HxCDF-13C	2.00	84
Total PeCDF	ND	-----	50	1,2,3,7,8,9-HxCDF-13C	2.00	77
				1,2,3,4,7,8-HxCDD-13C	2.00	79
1,2,3,7,8-PeCDD	ND	-----	50	1,2,3,6,7,8-HxCDD-13C	2.00	81
Total PeCDD	ND	-----	50	1,2,3,4,6,7,8-HpCDF-13C	2.00	78
				1,2,3,4,7,8,9-HpCDF-13C	2.00	75
1,2,3,4,7,8-HxCDF	ND	-----	50	1,2,3,4,6,7,8-HpCDD-13C	2.00	84
1,2,3,6,7,8-HxCDF	ND	-----	50	OCDD-13C	4.00	73
2,3,4,6,7,8-HxCDF	ND	-----	50			
1,2,3,7,8,9-HxCDF	ND	-----	50	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	50	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	50	2,3,7,8-TCDD-37Cl4	0.20	87
1,2,3,6,7,8-HxCDD	ND	-----	50			
1,2,3,7,8,9-HxCDD	ND	-----	50			
Total HxCDD	ND	-----	50			
1,2,3,4,6,7,8-HpCDF	ND	-----	50	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	50	Equivalence: 0.00 pg/L		
Total HpCDF	ND	-----	50	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	50			
Total HpCDD	ND	-----	50			
OCDF	ND	-----	100			
OCDD	ND	-----	100			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Blank Analysis Results

Lab Sample Name	DFBLKXR		
Lab Sample ID	BLANK-104384	Matrix	Water
Filename	L230307A_02	Dilution	NA
Total Amount Extracted	989 mL	Extracted	03/02/2023 11:02
ICAL ID	L230302	Analyzed	03/07/2023 10:15
CCal Filename(s)	L230306B_17 & L230307A_19	Injected By	SMT

Native Isomers	Conc pg/L	EMPC pg/L	RL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	10	2,3,7,8-TCDF-13C	2.00	75
Total TCDF	ND	-----	10	2,3,7,8-TCDD-13C	2.00	67
				1,2,3,7,8-PeCDF-13C	2.00	83
2,3,7,8-TCDD	ND	-----	10	2,3,4,7,8-PeCDF-13C	2.00	83
Total TCDD	ND	-----	10	1,2,3,7,8-PeCDD-13C	2.00	83
				1,2,3,4,7,8-HxCDF-13C	2.00	78
1,2,3,7,8-PeCDF	ND	-----	50	1,2,3,6,7,8-HxCDF-13C	2.00	78
2,3,4,7,8-PeCDF	ND	-----	50	2,3,4,6,7,8-HxCDF-13C	2.00	76
Total PeCDF	ND	-----	50	1,2,3,7,8,9-HxCDF-13C	2.00	68
				1,2,3,4,7,8-HxCDD-13C	2.00	68
1,2,3,7,8-PeCDD	ND	-----	50	1,2,3,6,7,8-HxCDD-13C	2.00	68
Total PeCDD	ND	-----	50	1,2,3,4,6,7,8-HpCDF-13C	2.00	57
				1,2,3,4,7,8,9-HpCDF-13C	2.00	72 Y
1,2,3,4,7,8-HxCDF	ND	-----	50	1,2,3,4,6,7,8-HpCDD-13C	2.00	74 Y
1,2,3,6,7,8-HxCDF	ND	-----	50	OCDD-13C	4.00	69 Y
2,3,4,6,7,8-HxCDF	ND	-----	50			
1,2,3,7,8,9-HxCDF	ND	-----	50	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	50	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	50	2,3,7,8-TCDD-37Cl4	0.20	84
1,2,3,6,7,8-HxCDD	ND	-----	50			
1,2,3,7,8,9-HxCDD	ND	-----	50			
Total HxCDD	ND	-----	50			
1,2,3,4,6,7,8-HpCDF	ND	-----	50	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	50	Equivalence: 0.00 pg/L		
Total HpCDF	ND	-----	50	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	50			
Total HpCDD	ND	-----	50			
OCDF	ND	-----	100			
OCDD	ND	-----	100			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

Y = Calculated using average of daily RFs

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Laboratory Control Spike Results

Lab Sample ID	LCS-104385		
Filename	U230305A_08	Matrix	Water
Total Amount Extracted	999 mL	Dilution	NA
ICAL ID	U221005	Extracted	03/02/2023 11:02
CCal Filename(s)	U230305A_01 & U230305A_16	Analyzed	03/05/2023 15:43
Method Blank ID	BLANK-104384	Injected By	JRH

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.21	104	2,3,7,8-TCDF-13C	2.0	83
Total TCDF				2,3,7,8-TCDD-13C	2.0	70
				1,2,3,7,8-PeCDF-13C	2.0	86
2,3,7,8-TCDD	0.20	0.22	112	2,3,4,7,8-PeCDF-13C	2.0	84
Total TCDD				1,2,3,7,8-PeCDD-13C	2.0	85
				1,2,3,4,7,8-HxCDF-13C	2.0	86
1,2,3,7,8-PeCDF	1.0	1.0	100	1,2,3,6,7,8-HxCDF-13C	2.0	88
2,3,4,7,8-PeCDF	1.0	1.1	107	2,3,4,6,7,8-HxCDF-13C	2.0	85
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.0	81
				1,2,3,4,7,8-HxCDD-13C	2.0	72
1,2,3,7,8-PeCDD	1.0	0.97	97	1,2,3,6,7,8-HxCDD-13C	2.0	83
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.0	66
				1,2,3,4,7,8,9-HpCDF-13C	2.0	67
1,2,3,4,7,8-HxCDF	1.0	1.0	101	1,2,3,4,6,7,8-HpCDD-13C	2.0	73
1,2,3,6,7,8-HxCDF	1.0	1.1	108	OCDD-13C	4.0	61
2,3,4,6,7,8-HxCDF	1.0	1.1	110			
1,2,3,7,8,9-HxCDF	1.0	1.0	104	1,2,3,4-TCDD-13C	2.0	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.0	NA
1,2,3,4,7,8-HxCDD	1.0	1.1	113	2,3,7,8-TCDD-37Cl4	0.20	85
1,2,3,6,7,8-HxCDD	1.0	0.99	99			
1,2,3,7,8,9-HxCDD	1.0	1.0	104			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	1.0	1.0	105			
1,2,3,4,7,8,9-HpCDF	1.0	1.0	100			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	1.0	0.88	88			
Total HpCDD						
OCDF	2.0	2.3	114			
OCDD	2.0	1.9	97			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
R = Recovery outside of target range

Y = RF averaging used in calculations
Nn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

REPORT OF LABORATORY ANALYSIS

WECK LABORATORIES, INC.

Certificate of Analysis

FINAL REPORT

Work Orders:	3F09046	**Report Date:**	7/07/2023
		Received Date:	06/09/2023
Project:	2023 Annual Meadowlark Effluent Priority Pollutant Scan	**Turnaround Time:**	Normal
		Phones:	(760) 438-3941
		Fax:	
Attn:	Rachael Morgan	**P.O. #:**	
Client:	Encina Wastewater Authority 6200 Avenida Encinas Carlsbad, CA 92011	**Billing Code:**	

DoD-ELAP ANAB #ADE-2882 • DoD-ISO ANAB # • ELAP-CA #1132 • EPA-UCMR #CA00211 • ISO17025 ANAB #L2457.01 • LACSD #10143

This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.

Dear Rachael Morgan,

Enclosed are the results of analyses for samples received 6/09/23 with the Chain-of-Custody document. The samples were received in good condition, at 1.6 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

Reviewed by:

Kim G. Tu
Project Manager

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634

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Encina Wastewater Authority
6200 Avenida Encinas
Carlsbad, CA 92011

Project Number: 2023 Annual Meadowlark Effluent Priority Pollutant Scan

Project Manager: Rachael Morgan

Reported:
07/07/2023 16:58

Sample Summary

Sample Name	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
Meadowlark Effluent	IM	3F09046-01	Water	06/07/23 07:00	

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Project Number: 2023 Annual Meadowlark Effluent Priority Pollutant Scan

Project Manager: Rachael Morgan

Reported: 07/07/2023 16:58

Sample Results

Sample: Meadowlark Effluent
3F09046-01 (Water)

Sampled: 06/07/23 7:00 by IM

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Metals by EPA 200 Series Methods						
Method: EPA 200.8		**Instr:** ICPMS06				
Batch ID: W3F2333 **Preparation:** EPA 200.2		**Prepared:** 06/28/23 11:35				**Analyst:** tyc
Copper, Total	**5.5**	0.50	ug/l	1	06/30/23	
Lead, Total	ND	0.20	ug/l	1	06/30/23	

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Project Number: 2023 Annual Meadowlark Effluent Priority Pollutant Scan

Project Manager: Rachael Morgan

Reported: 07/07/2023 16:58

Quality Control Results

Metals by EPA 200 Series Methods

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W3F2333 - EPA 200.8										
Blank (W3F2333-BLK1)				**Prepared: 06/28/23**	**Analyzed: 06/30/23**					
Copper, Total	ND	0.50	ug/l							
Lead, Total	ND	0.20	ug/l							
LCS (W3F2333-BS1)				**Prepared: 06/28/23**	**Analyzed: 06/30/23**					
Copper, Total	53.4	0.50	ug/l	50.0		107	85-115			
Lead, Total	50.0	0.20	ug/l	50.0		100	85-115			
Matrix Spike (W3F2333-MS1)	**Source: 3F14122-01**			**Prepared: 06/28/23**	**Analyzed: 06/30/23**					
Copper, Total	411	0.50	ug/l	50.0	356	110	70-130			
Lead, Total	51.5	0.20	ug/l	50.0	0.876	101	70-130			
Matrix Spike (W3F2333-MS2)	**Source: 3F16081-02**			**Prepared: 06/28/23**	**Analyzed: 06/30/23**					
Copper, Total	52.7	0.50	ug/l	50.0	0.918	104	70-130			
Lead, Total	49.9	0.20	ug/l	50.0	0.173	99	70-130			
Matrix Spike Dup (W3F2333-MSD1)	**Source: 3F14122-01**			**Prepared: 06/28/23**	**Analyzed: 06/30/23**					
Copper, Total	401	0.50	ug/l	50.0	356	90	70-130	2	30	
Lead, Total	51.3	0.20	ug/l	50.0	0.876	101	70-130	0.4	30	
Matrix Spike Dup (W3F2333-MSD2)	**Source: 3F16081-02**			**Prepared: 06/28/23**	**Analyzed: 06/30/23**					
Copper, Total	53.0	0.50	ug/l	50.0	0.918	104	70-130	0.5	30	
Lead, Total	50.5	0.20	ug/l	50.0	0.173	100	70-130	1	30	

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Project Number: 2023 Annual Meadowlark Effluent Priority Pollutant Scan

Project Manager: Rachael Morgan

Reported:
07/07/2023 16:58

Notes and Definitions

Item	Definition
%REC	Percent Recovery
Dil	Dilution
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ)
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

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WECK LABORATORIES, INC.

Certificate of Analysis

FINAL REPORT

Work Orders: 3E19030

Project: 2023 Annual CWRF Effluent priority Pollutant Scan

Attn: Rachael Morgan

Client: Encina Wastewater Authority
6200 Avenida Encinas
Carlsbad, CA 92011

Report Date: 6/30/2023

Received Date: 05/19/2023

Turnaround Time: Normal

Phones: (760) 438-3941

Fax:

P.O. #:

Billing Code:

DoD-ELAP ANAB #ADE-2882 • DoD-ISO ANAB # • ELAP-CA #1132 • EPA-UCMR #CA00211 • ISO17025 ANAB #L2457.01 • LACSD #10143

This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.

Dear Rachael Morgan,

Enclosed are the results of analyses for samples received 5/19/23 with the Chain-of-Custody document. The samples were received in good condition, at 1.0 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

Reviewed by:

Kim G. Tu
Project Manager

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Certificate of Analysis

FINAL REPORT

Encina Wastewater Authority
6200 Avenida Encinas
Carlsbad, CA 92011

Project Number: 2023 Annual CWRF Effluent priority Pollutant Scan

Project Manager: Rachael Morgan

Reported:
06/30/2023 09:43

Sample Summary

Sample Name	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
CWRF Effluent	S.Nguyen	3E19030-01	Water	05/18/23 07:00	

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Project Number: 2023 Annual CWRF Effluent priority Pollutant Scan

Project Manager: Rachael Morgan

Reported: 06/30/2023 09:43

Sample Results

Sample: CWRF Effluent
3E19030-01 (Water)

Sampled: 05/18/23 7:00 by S.Nguyen

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Acid and Base/Neutral Extractables by GC/MS						
Method: EPA 625.1		**Instr:** GCMS06				
Batch ID: W3E2119 **Preparation:** EPA 625/L-L SF		**Prepared:** 05/24/23 09:08				**Analyst:** rmr
1,2,4-Trichlorobenzene	ND	1.0	ug/l	1	06/17/23	BS-04
1,2-Dichlorobenzene	ND	1.0	ug/l	1	06/17/23	BS-04
1,2-Diphenylhydrazine/Azobenzene	ND	1.0	ug/l	1	06/17/23	
1,3-Dichlorobenzene	ND	1.0	ug/l	1	06/17/23	Q-02
1,4-Dichlorobenzene	ND	1.0	ug/l	1	06/17/23	Q-02
2,4,6-Trichlorophenol	ND	1.0	ug/l	1	06/17/23	
2,4-Dichlorophenol	ND	1.0	ug/l	1	06/17/23	
2,4-Dimethylphenol	ND	1.0	ug/l	1	06/17/23	
2,4-Dinitrophenol	ND	10	ug/l	1	06/17/23	
2,4-Dinitrotoluene	ND	1.0	ug/l	1	06/17/23	
2,6-Dinitrotoluene	ND	1.0	ug/l	1	06/17/23	BS-04
2-Chloronaphthalene	ND	1.0	ug/l	1	06/17/23	BS-04
2-Chlorophenol	ND	1.0	ug/l	1	06/17/23	
2-Methyl-4,6-dinitrophenol	ND	5.0	ug/l	1	06/17/23	
2-Nitrophenol	ND	1.0	ug/l	1	06/17/23	
3,3'-Dichlorobenzidine	ND	5.0	ug/l	1	06/17/23	
4-Bromophenyl phenyl ether	ND	1.0	ug/l	1	06/17/23	
4-Chloro-3-methylphenol	ND	1.0	ug/l	1	06/17/23	
4-Chlorophenyl phenyl ether	ND	1.0	ug/l	1	06/17/23	
4-Nitrophenol	ND	5.0	ug/l	1	06/17/23	
Acenaphthene	ND	1.0	ug/l	1	06/17/23	
Acenaphthylene	ND	1.0	ug/l	1	06/17/23	
Anthracene	ND	1.0	ug/l	1	06/17/23	
Benzidine	ND	10	ug/l	1	06/17/23	
Benzo (a) anthracene	ND	1.0	ug/l	1	06/17/23	
Benzo (a) pyrene	ND	1.0	ug/l	1	06/17/23	
Benzo (b) fluoranthene	ND	1.0	ug/l	1	06/17/23	
Benzo (g,h,i) perylene	ND	2.0	ug/l	1	06/17/23	
Benzo (k) fluoranthene	ND	1.0	ug/l	1	06/17/23	
Bis(2-chloroethoxy)methane	ND	1.0	ug/l	1	06/17/23	
Bis(2-chloroethyl)ether	ND	1.0	ug/l	1	06/17/23	
Bis(2-chloroisopropyl)ether	ND	1.0	ug/l	1	06/17/23	Q-02
Bis(2-ethylhexyl)phthalate	**10**	5.0	ug/l	1	06/17/23	B-02
Butyl benzyl phthalate	ND	1.0	ug/l	1	06/17/23	
Chrysene	ND	1.0	ug/l	1	06/17/23	

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Project Number: 2023 Annual CWRF Effluent priority Pollutant Scan

Project Manager: Rachael Morgan

Reported: 06/30/2023 09:43

Sample Results

(Continued)

Sample: CWRF Effluent
3E19030-01 (Water)

Sampled: 05/18/23 7:00 by S.Nguyen

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Acid and Base/Neutral Extractables by GC/MS (Continued)						
Method: EPA 625.1		**Instr:** GCMS06				
Batch ID: W3E2119 **Preparation:** EPA 625/L-L SF		**Prepared:** 05/24/23 09:08				**Analyst:** rmr
Dibenzo (a,h) anthracene	ND	2.0	ug/l	1	06/17/23	
Diethyl phthalate	ND	1.0	ug/l	1	06/17/23	
Dimethyl phthalate	ND	1.0	ug/l	1	06/17/23	
Di-n-butyl phthalate	ND	1.0	ug/l	1	06/17/23	
Di-n-octyl phthalate	ND	1.0	ug/l	1	06/17/23	
Fluoranthene	ND	1.0	ug/l	1	06/17/23	
Fluorene	ND	1.0	ug/l	1	06/17/23	BS-04
Hexachlorobenzene	ND	1.0	ug/l	1	06/17/23	
Hexachlorobutadiene	ND	1.0	ug/l	1	06/17/23	
Hexachlorocyclopentadiene	ND	5.0	ug/l	1	06/17/23	
Hexachloroethane	ND	1.0	ug/l	1	06/17/23	BS-04
Indeno (1,2,3-cd) pyrene	ND	2.0	ug/l	1	06/17/23	
Isophorone	ND	1.0	ug/l	1	06/17/23	
Naphthalene	ND	1.0	ug/l	1	06/17/23	
Nitrobenzene	ND	1.0	ug/l	1	06/17/23	BS-04
N-Nitrosodimethylamine	ND	1.0	ug/l	1	06/17/23	
N-Nitrosodi-n-propylamine	ND	1.0	ug/l	1	06/17/23	
N-Nitrosodiphenylamine	ND	1.0	ug/l	1	06/17/23	
Pentachlorophenol	ND	1.0	ug/l	1	06/17/23	
Phenanthrene	ND	1.0	ug/l	1	06/17/23	
Phenol	ND	1.0	ug/l	1	06/17/23	
Pyrene	ND	1.0	ug/l	1	06/17/23	Q-02
Surrogate(s)						
2,4,6-Tribromophenol	*58%*	*Conc: 22.1*	*25-120*		*06/17/23*	
2-Fluorobiphenyl	*61%*	*Conc: 11.5*	*22-120*		*06/17/23*	
2-Fluorophenol	*26%*	*Conc: 9.98*	*17-120*		*06/17/23*	
Nitrobenzene-d5	*62%*	*Conc: 11.9*	*47-120*		*06/17/23*	
Phenol-d5	*19%*	*Conc: 7.36*	*12-120*		*06/17/23*	
Terphenyl-d14	*11%*	*Conc: 2.05*	*44-129*		*06/17/23*	*S-GC*
Chlorinated Pesticides and/or PCBs by GC/ECD						
Method: EPA 608.3		**Instr:** GC07				
Batch ID: W3E2230 **Preparation:** EPA 608/L-L SF		**Prepared:** 05/25/23 08:58				**Analyst:** RJG
4,4´-DDD	ND	0.50	ug/l	10	06/01/23	M-04
4,4´-DDE	ND	0.50	ug/l	10	06/01/23	M-04
4,4´-DDT	ND	0.10	ug/l	10	06/01/23	M-04
Aldrin	ND	0.050	ug/l	10	06/01/23	M-04

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Project Number: 2023 Annual CWRF Effluent priority Pollutant Scan

Project Manager: Rachael Morgan

Reported: 06/30/2023 09:43

Sample Results

(Continued)

Sample: CWRF Effluent
3E19030-01 (Water)

Sampled: 05/18/23 7:00 by S.Nguyen

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Chlorinated Pesticides and/or PCBs by GC/ECD (Continued)						
Method: EPA 608.3		**Instr:** GC07				
Batch ID: W3E2230 **Preparation:** EPA 608/L-L SF		**Prepared:** 05/25/23 08:58				**Analyst:** RJG
alpha-BHC	ND	0.10	ug/l	10	06/01/23	M-04
Aroclor 1016	ND	5.0	ug/l	10	06/01/23	M-04
Aroclor 1221	ND	5.0	ug/l	10	06/01/23	M-04
Aroclor 1232	ND	5.0	ug/l	10	06/01/23	M-04
Aroclor 1242	ND	5.0	ug/l	10	06/01/23	M-04
Aroclor 1248	ND	5.0	ug/l	10	06/01/23	M-04
Aroclor 1254	ND	5.0	ug/l	10	06/01/23	M-04
Aroclor 1260	ND	5.0	ug/l	10	06/01/23	M-04
beta-BHC	ND	0.050	ug/l	10	06/01/23	M-04
Chlordane (tech)	ND	1.0	ug/l	10	06/01/23	M-04
delta-BHC	ND	0.050	ug/l	10	06/01/23	M-04
Dieldrin	ND	0.10	ug/l	10	06/01/23	M-04
Endosulfan I	ND	0.20	ug/l	10	06/01/23	M-04
Endosulfan II	ND	0.10	ug/l	10	06/01/23	M-04
Endosulfan sulfate	ND	0.50	ug/l	10	06/01/23	M-04
Endrin	ND	0.10	ug/l	10	06/01/23	M-04
Endrin aldehyde	ND	0.10	ug/l	10	06/01/23	M-04
gamma-BHC (Lindane)	ND	0.20	ug/l	10	06/01/23	M-04
Heptachlor	ND	0.10	ug/l	10	06/01/23	M-04
Heptachlor epoxide	ND	0.10	ug/l	10	06/01/23	M-04
Toxaphene	ND	5.0	ug/l	10	06/01/23	M-04
Surrogate(s)						
Decachlorobiphenyl	*50% Conc: 0.0479*	*33-133*			*06/01/23*	
Tetrachloro-meta-xylene	*56% Conc: 0.0534*	*32-130*			*06/01/23*	
Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods						
Method: EPA 335.4		**Instr:** AA01				
Batch ID: W3E1945 **Preparation:** _NONE (WETCHEM)		**Prepared:** 05/22/23 16:44				**Analyst:** ism
Cyanide, Total	**170**	5.0	ug/l	1	05/24/23	
Metals by EPA 200 Series Methods						
Method: EPA 200.7		**Instr:** ICP03				
Batch ID: W3E2124 **Preparation:** EPA 200.2		**Prepared:** 05/24/23 09:39				**Analyst:** kvm
Aluminum, Total	ND	0.050	mg/l	1	05/25/23	
Barium, Total	**0.030**	0.0020	mg/l	1	05/25/23	
Method: EPA 245.1		**Instr:** HG03				
Batch ID: W3E2344 **Preparation:** EPA 245.1		**Prepared:** 05/25/23 17:47				**Analyst:** KVM
Mercury, Total	ND	0.050	ug/l	1	05/30/23	

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Project Number: 2023 Annual CWRF Effluent priority Pollutant Scan

Project Manager: Rachael Morgan

Reported: 06/30/2023 09:43

Sample Results

(Continued)

Sample: CWRF Effluent
3E19030-01 (Water)

Sampled: 05/18/23 7:00 by S.Nguyen

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Metals by EPA 200 Series Methods (Continued)						
Method: EPA 245.1		**Instr:** HG03				
Batch ID: W3E2344 **Preparation:** EPA 245.1		**Prepared:** 05/25/23 17:47				**Analyst:** KVM
Perchlorate by EPA 314.0						
Method: EPA 314.0		**Instr:** LC08_Channel1				
Batch ID: W3E1819 **Preparation:** _NONE (LC)		**Prepared:** 05/19/23 12:00				**Analyst:** JAN
Perchlorate	**2.0**	2.0	ug/l	1	05/24/23	
Volatile Organic Compounds by P&T and GC/MS						
Method: EPA 624.1		**Instr:** GCMS21				
Batch ID: W3E1870 **Preparation:** EPA 5030B		**Prepared:** 05/22/23 07:28				**Analyst:** RDT
1,1,1-Trichloroethane	ND	1.0	ug/l	1	05/22/23	
1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	1	05/22/23	
1,1,2-Trichloroethane	ND	1.0	ug/l	1	05/22/23	
1,1-Dichloroethane	ND	1.0	ug/l	1	05/22/23	
1,1-Dichloroethene	ND	1.0	ug/l	1	05/22/23	
1,2-Dichloroethane	ND	1.0	ug/l	1	05/22/23	
1,2-Dichloropropane	ND	1.0	ug/l	1	05/22/23	
2-Butanone	ND	5.0	ug/l	1	05/22/23	
2-Chloroethyl vinyl ether	ND	1.0	ug/l	1	05/22/23	
2-Hexanone	ND	5.0	ug/l	1	05/22/23	
4-Methyl-2-pentanone	ND	5.0	ug/l	1	05/22/23	
Acetone	ND	5.0	ug/l	1	05/22/23	
Acrolein	ND	5.0	ug/l	1	05/22/23	O-04
Acrylonitrile	ND	2.0	ug/l	1	05/22/23	
Benzene	ND	1.0	ug/l	1	05/22/23	
Bromodichloromethane	**3.1**	1.0	ug/l	1	05/22/23	
Bromoform	ND	1.0	ug/l	1	05/22/23	
Bromomethane	ND	1.0	ug/l	1	05/22/23	
Carbon Disulfide	ND	1.0	ug/l	1	05/22/23	
Carbon tetrachloride	ND	1.0	ug/l	1	05/22/23	
Chlorobenzene	ND	1.0	ug/l	1	05/22/23	
Chloroethane	ND	1.0	ug/l	1	05/22/23	
Chloroform	**8.2**	1.0	ug/l	1	05/22/23	
Chloromethane	ND	1.0	ug/l	1	05/22/23	
cis-1,3-Dichloropropene	ND	1.0	ug/l	1	05/22/23	
Dibromochloromethane	**1.1**	1.0	ug/l	1	05/22/23	
Dichlorodifluoromethane (Freon 12)	ND	1.0	ug/l	1	05/22/23	
Ethylbenzene	ND	1.0	ug/l	1	05/22/23	
m-Dichlorobenzene	ND	1.0	ug/l	1	05/22/23	

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Project Number: 2023 Annual CWRF Effluent priority Pollutant Scan

Project Manager: Rachael Morgan

Reported: 06/30/2023 09:43

Sample Results

(Continued)

Sample: CWRF Effluent
3E19030-01 (Water)

Sampled: 05/18/23 7:00 by S.Nguyen

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)						
Method: EPA 624.1		**Instr:** GCMS21				
Batch ID: W3E1870 **Preparation:** EPA 5030B		**Prepared:** 05/22/23 07:28				**Analyst:** RDT
Methyl tert-butyl ether (MTBE)	ND	1.0	ug/l	1	05/22/23	
Methylene chloride	ND	1.0	ug/l	1	05/22/23	
o-Dichlorobenzene	ND	1.0	ug/l	1	05/22/23	
p-Dichlorobenzene	ND	1.0	ug/l	1	05/22/23	
Tetrachloroethene	ND	1.0	ug/l	1	05/22/23	
Toluene	ND	1.0	ug/l	1	05/22/23	
trans-1,2-Dichloroethene	ND	1.0	ug/l	1	05/22/23	
trans-1,3-Dichloropropene	ND	1.0	ug/l	1	05/22/23	
Trichloroethene	ND	1.0	ug/l	1	05/22/23	
Trichlorofluoromethane	ND	1.0	ug/l	1	05/22/23	
Vinyl chloride	ND	1.0	ug/l	1	05/22/23	
Surrogate(s)						
1,2-Dichloroethane-d4	*102%*	*Conc: 51.2*	*82-125*		*05/22/23*	
4-Bromofluorobenzene	*93%*	*Conc: 46.4*	*88-108*		*05/22/23*	
Toluene-d8	*103%*	*Conc: 51.5*	*92-112*		*05/22/23*	

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Encina Wastewater Authority
6200 Avenida Encinas
Carlsbad, CA 92011

Project Number: 2023 Annual CWRF Effluent priority Pollutant Scan

Project Manager: Rachael Morgan

Reported: 06/30/2023 09:43

Sample Results LA Testing - EMSL Analytical, Inc. CA-ELAP #2283, Non-NELAP

Sample: CWRF Effluent
3E19030-01 (Water)

Sampled: 05/18/23 7:00 by S.Nguyen

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
EPA 100.2							
Method: EPA 100.2	**Batch ID:** 322313110		**Prepared:** 05/19/23 14:20				**Analyst:** _SUB
Asbestos	ND		1.00	MFL	1	06/02/23	
Fibers:	**Area:** 0.254	**Confidence:** 0.00-3.70					

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Project Manager: Rachael Morgan

Reported: 06/30/2023 09:43

Sample Results PACE-MN

(Continued)

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Project Manager: Rachael Morgan

Reported: 06/30/2023 09:43

Sample Results PACE-MN (Continued)

Sample: CWRF Effluent
3E19030-01 (Water)

Sampled: 05/18/23 7:00 by S.Nguyen

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Dioxins and Furans by Isotope Dilution HRGC/HRMS							
Method: SW8290	**Batch ID:** 35526		**Prepared:** 06/01/23 10:00			**Analyst:** SMT	
1,2,3,4,6,7,8-HpCDD	ND		47	pg/L	1	06/09/23	
1,2,3,4,6,7,8-HpCDF	ND		47	pg/L	1	06/09/23	
1,2,3,4,7,8,9-HpCDF	ND		47	pg/L	1	06/09/23	
1,2,3,4,7,8-HxCDD	ND		47	pg/L	1	06/09/23	
1,2,3,4,7,8-HxCDF	ND		47	pg/L	1	06/09/23	
1,2,3,6,7,8-HxCDD	ND		47	pg/L	1	06/09/23	
1,2,3,6,7,8-HxCDF	ND		47	pg/L	1	06/09/23	
1,2,3,7,8,9-HxCDD	ND		47	pg/L	1	06/09/23	
1,2,3,7,8,9-HxCDF	ND		47	pg/L	1	06/09/23	
1,2,3,7,8-PeCDD	ND		47	pg/L	1	06/09/23	
1,2,3,7,8-PeCDF	ND		47	pg/L	1	06/09/23	
2,3,4,6,7,8-HxCDF	ND		47	pg/L	1	06/09/23	
2,3,4,7,8-PeCDF	ND		47	pg/L	1	06/09/23	
2,3,7,8-TCDD	ND		9.5	pg/L	1	06/09/23	
2,3,7,8-TCDF	ND		9.5	pg/L	1	06/09/23	
OCDD	ND		95	pg/L	1	06/09/23	
OCDF	ND		95	pg/L	1	06/09/23	
Total HpCDD	ND		47	pg/L	1	06/09/23	
Total HpCDF	ND		47	pg/L	1	06/09/23	
Total HxCDD	ND		47	pg/L	1	06/09/23	
Total HxCDF	ND		47	pg/L	1	06/09/23	
Total PeCDD	ND		47	pg/L	1	06/09/23	
Total PeCDF	ND		47	pg/L	1	06/09/23	
Total TCDD	ND		9.5	pg/L	1	06/09/23	
Total TCDF	ND		9.5	pg/L	1	06/09/23	
Surrogate(s)							
1,2,3,4,6,7,8-HpCDD-13C	*57%*		*40.0-135.0*			*06/09/23*	
1,2,3,4,6,7,8-HpCDF-13C	*55%*		*40.0-135.0*			*06/09/23*	
1,2,3,4,7,8,9-HpCDF-13C	*50%*		*40.0-135.0*			*06/09/23*	
1,2,3,4,7,8-HxCDD-13C	*68%*		*40.0-135.0*			*06/09/23*	
1,2,3,4,7,8-HxCDF-13C	*81%*		*40.0-135.0*			*06/09/23*	
1,2,3,4-TCDD-13C	*152%*		*40.0-135.0*			*06/09/23*	*P*
1,2,3,6,7,8-HxCDD-13C	*79%*		*40.0-135.0*			*06/09/23*	
1,2,3,6,7,8-HxCDF-13C	*81%*		*40.0-135.0*			*06/09/23*	
1,2,3,7,8,9-HxCDD-13C	*124%*		*40.0-135.0*			*06/09/23*	
1,2,3,7,8,9-HxCDF-13C	*72%*		*40.0-135.0*			*06/09/23*	
1,2,3,7,8-PeCDD-13C	*80%*		*40.0-135.0*			*06/09/23*	
1,2,3,7,8-PeCDF-13C	*79%*		*40.0-135.0*			*06/09/23*	

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Project Number: 2023 Annual CWRF Effluent priority Pollutant Scan

Project Manager: Rachael Morgan

Reported: 06/30/2023 09:43

Sample Results PACE-MN (Continued)

Sample: CWRF Effluent
3E19030-01 (Water)

Sampled: 05/18/23 7:00 by S.Nguyen
(Continued)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Dioxins and Furans by Isotope Dilution HRGC/HRMS (Continued)							
2,3,4,6,7,8-HxCDF-13C	*77%*		*40.0-135.0*			*06/09/23*	
2,3,4,7,8-PeCDF-13C	*77%*		*40.0-135.0*			*06/09/23*	
2,3,7,8-TCDD-13C	*64%*		*40.0-135.0*			*06/09/23*	
2,3,7,8-TCDD-37Cl4	*78%*		*40.0-135.0*			*06/09/23*	
2,3,7,8-TCDF-13C	*69%*		*40.0-135.0*			*06/09/23*	
OCDD-13C	*42%*		*40.0-135.0*			*06/09/23*	

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Project Manager: Rachael Morgan

Reported: 06/30/2023 09:43

Quality Control Results

Dioxins and Furans by Isotope Dilution HRGC/HRMS

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: 35526 - SW8290										
BLK (BLANK-106588)				**Prepared: 06/01/23 Analyzed: 06/09/23**						
1,2,3,4,6,7,8-HpCDD	ND	51	pg/L							
1,2,3,4,6,7,8-HpCDF	ND	51	pg/L							
1,2,3,4,7,8,9-HpCDF	ND	51	pg/L							
1,2,3,4,7,8-HxCDD	ND	51	pg/L							
1,2,3,4,7,8-HxCDF	ND	51	pg/L							
1,2,3,6,7,8-HxCDD	ND	51	pg/L							
1,2,3,6,7,8-HxCDF	ND	51	pg/L							
1,2,3,7,8,9-HxCDD	ND	51	pg/L							
1,2,3,7,8,9-HxCDF	ND	51	pg/L							
1,2,3,7,8-PeCDD	ND	51	pg/L							
1,2,3,7,8-PeCDF	ND	51	pg/L							
2,3,4,6,7,8-HxCDF	ND	51	pg/L							
2,3,4,7,8-PeCDF	ND	51	pg/L							
2,3,7,8-TCDD	ND	10	pg/L							
2,3,7,8-TCDF	ND	10	pg/L							
OCDD	ND	100	pg/L							
OCDF	ND	100	pg/L							
Total HpCDD	ND	51	pg/L							
Total HpCDF	ND	51	pg/L							
Total HxCDD	ND	51	pg/L							
Total HxCDF	ND	51	pg/L							
Total PeCDD	ND	51	pg/L							
Total PeCDF	ND	51	pg/L							
Total TCDD	ND	10	pg/L							
Total TCDF	ND	10	pg/L							
Surrogate(s)										
1,2,3,4,6,7,8-HpCDD-13C	*1200*		*pg/L*	*2000*		*57*	*40.0-135.0*			
1,2,3,4,6,7,8-HpCDF-13C	*1100*		*pg/L*	*2000*		*56*	*40.0-135.0*			
1,2,3,4,7,8,9-HpCDF-13C	*1100*		*pg/L*	*2000*		*53*	*40.0-135.0*			
1,2,3,4,7,8-HxCDD-13C	*1400*		*pg/L*	*2000*		*71*	*40.0-135.0*			
1,2,3,4,7,8-HxCDF-13C	*1600*		*pg/L*	*2000*		*80*	*40.0-135.0*			
1,2,3,6,7,8-HxCDD-13C	*1600*		*pg/L*	*2000*		*78*	*40.0-135.0*			
1,2,3,6,7,8-HxCDF-13C	*1700*		*pg/L*	*2000*		*84*	*40.0-135.0*			
1,2,3,7,8,9-HxCDF-13C	*1500*		*pg/L*	*2000*		*75*	*40.0-135.0*			
1,2,3,7,8-PeCDD-13C	*1700*		*pg/L*	*2000*		*83*	*40.0-135.0*			
1,2,3,7,8-PeCDF-13C	*1600*		*pg/L*	*2000*		*80*	*40.0-135.0*			
2,3,4,6,7,8-HxCDF-13C	*1600*		*pg/L*	*2000*		*78*	*40.0-135.0*			
2,3,4,7,8-PeCDF-13C	*1700*		*pg/L*	*2000*		*82*	*40.0-135.0*			
2,3,7,8-TCDD-13C	*1300*		*pg/L*	*2000*		*67*	*40.0-135.0*			

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Project Number: 2023 Annual CWRF Effluent priority Pollutant Scan

Project Manager: Rachael Morgan

Reported: 06/30/2023 09:43

Quality Control Results

(Continued)

Dioxins and Furans by Isotope Dilution HRGC/HRMS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: 35526 - SW8290 (Continued)										
BLK (BLANK-106588)				**Prepared: 06/01/23 Analyzed: 06/09/23**						
Surrogate(s)										
2,3,7,8-TCDF-13C	*1600*		*pg/L*	*2000*		*77*	*40.0-135.0*			
OCDD-13C	*1700*		*pg/L*	*4000*		*42*	*40.0-135.0*			
BS (LCS-106589)				**Prepared: 06/01/23 Analyzed: 06/08/23**						
1,2,3,4,6,7,8-HpCDD	840	48	pg/L	970		87	70.0-130.0			
1,2,3,4,6,7,8-HpCDF	920	48	pg/L	970		95	70.0-130.0			
1,2,3,4,7,8,9-HpCDF	930	48	pg/L	970		96	70.0-130.0			
1,2,3,4,7,8-HxCDD	980	48	pg/L	970		102	70.0-130.0			
1,2,3,4,7,8-HxCDF	900	48	pg/L	970		93	70.0-130.0			
1,2,3,6,7,8-HxCDD	970	48	pg/L	970		100	70.0-130.0			
1,2,3,6,7,8-HxCDF	940	48	pg/L	970		98	70.0-130.0			
1,2,3,7,8,9-HxCDD	1100	48	pg/L	970		110	70.0-130.0			
1,2,3,7,8,9-HxCDF	970	48	pg/L	970		101	70.0-130.0			
1,2,3,7,8-PeCDD	840	48	pg/L	970		87	70.0-130.0			
1,2,3,7,8-PeCDF	950	48	pg/L	970		98	70.0-130.0			
2,3,4,6,7,8-HxCDF	990	48	pg/L	970		103	70.0-130.0			
2,3,4,7,8-PeCDF	930	48	pg/L	970		97	70.0-130.0			
2,3,7,8-TCDD	190	9.7	pg/L	190		100	70.0-130.0			
2,3,7,8-TCDF	190	9.7	pg/L	190		99	70.0-130.0			
OCDD	2000	97	pg/L	1900		105	70.0-130.0			
OCDF	2000	97	pg/L	1900		103	70.0-130.0			
Surrogate(s)										
1,2,3,4,6,7,8-HpCDD-13C	*1200*		*pg/L*	*1900*		*60*	*40.0-135.0*			
1,2,3,4,6,7,8-HpCDF-13C	*1100*		*pg/L*	*1900*		*57*	*40.0-135.0*			
1,2,3,4,7,8,9-HpCDF-13C	*1100*		*pg/L*	*1900*		*56*	*40.0-135.0*			
1,2,3,4,7,8-HxCDD-13C	*1400*		*pg/L*	*1900*		*70*	*40.0-135.0*			
1,2,3,4,7,8-HxCDF-13C	*1500*		*pg/L*	*1900*		*80*	*40.0-135.0*			
1,2,3,6,7,8-HxCDD-13C	*1500*		*pg/L*	*1900*		*76*	*40.0-135.0*			
1,2,3,6,7,8-HxCDF-13C	*1600*		*pg/L*	*1900*		*84*	*40.0-135.0*			
1,2,3,7,8,9-HxCDF-13C	*1500*		*pg/L*	*1900*		*77*	*40.0-135.0*			
1,2,3,7,8-PeCDD-13C	*1600*		*pg/L*	*1900*		*83*	*40.0-135.0*			
1,2,3,7,8-PeCDF-13C	*1500*		*pg/L*	*1900*		*80*	*40.0-135.0*			
2,3,4,6,7,8-HxCDF-13C	*1500*		*pg/L*	*1900*		*78*	*40.0-135.0*			
2,3,4,7,8-PeCDF-13C	*1600*		*pg/L*	*1900*		*81*	*40.0-135.0*			
2,3,7,8-TCDD-13C	*1300*		*pg/L*	*1900*		*68*	*40.0-135.0*			
2,3,7,8-TCDF-13C	*1500*		*pg/L*	*1900*		*76*	*40.0-135.0*			
OCDD-13C	*1800*		*pg/L*	*3900*		*46*	*40.0-135.0*			
LCSD (LCSD-106590)	**Source: LCS-106589**			**Prepared: 06/01/23 Analyzed: 06/08/23**						
1,2,3,4,6,7,8-HpCDD	770	48	pg/L	970	840	80	70.0-130.0	8.8	20.0	

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Project Number: 2023 Annual CWRF Effluent priority Pollutant Scan

Project Manager: Rachael Morgan

Reported: 06/30/2023 09:43

Quality Control Results

(Continued)

Dioxins and Furans by Isotope Dilution HRGC/HRMS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: 35526 - SW8290 (Continued)										
LCSD (LCSD-106590)	**Source: LCS-106589**			**Prepared: 06/01/23**	**Analyzed: 06/08/23**					
1,2,3,4,6,7,8-HpCDF	910	48	pg/L	970	920	94	70.0-130.0	1.1	20.0	
1,2,3,4,7,8,9-HpCDF	890	48	pg/L	970	930	92	70.0-130.0	3.8	20.0	
1,2,3,4,7,8-HxCDD	950	48	pg/L	970	980	98	70.0-130.0	3.2	20.0	
1,2,3,4,7,8-HxCDF	950	48	pg/L	970	900	98	70.0-130.0	4.7	20.0	
1,2,3,6,7,8-HxCDD	880	48	pg/L	970	970	91	70.0-130.0	9.1	20.0	
1,2,3,6,7,8-HxCDF	980	48	pg/L	970	940	101	70.0-130.0	3.6	20.0	
1,2,3,7,8,9-HxCDD	970	48	pg/L	970	1100	100	70.0-130.0	10.2	20.0	
1,2,3,7,8,9-HxCDF	990	48	pg/L	970	970	102	70.0-130.0	1.2	20.0	
1,2,3,7,8-PeCDD	860	48	pg/L	970	840	89	70.0-130.0	2.3	20.0	
1,2,3,7,8-PeCDF	970	48	pg/L	970	950	100	70.0-130.0	1.5	20.0	
2,3,4,6,7,8-HxCDF	960	48	pg/L	970	990	99	70.0-130.0	3.5	20.0	
2,3,4,7,8-PeCDF	970	48	pg/L	970	930	100	70.0-130.0	3.3	20.0	
2,3,7,8-TCDD	210	9.7	pg/L	190	190	107	70.0-130.0	6.5	20.0	
2,3,7,8-TCDF	190	9.7	pg/L	190	190	97	70.0-130.0	1.7	20.0	
OCDD	2000	97	pg/L	1900	2000	105	70.0-130.0	0.7	20.0	
OCDF	1900	97	pg/L	1900	2000	99	70.0-130.0	3.1	20.0	
Surrogate(s)										
1,2,3,4,6,7,8-HpCDD-13C	*970*		*pg/L*	*1900*		*50*	*40.0-135.0*			
1,2,3,4,6,7,8-HpCDF-13C	*900*		*pg/L*	*1900*		*46*	*40.0-135.0*			
1,2,3,4,7,8,9-HpCDF-13C	*870*		*pg/L*	*1900*		*45*	*40.0-135.0*			
1,2,3,4,7,8-HxCDD-13C	*1100*		*pg/L*	*1900*		*59*	*40.0-135.0*			
1,2,3,4,7,8-HxCDF-13C	*1300*		*pg/L*	*1900*		*66*	*40.0-135.0*			
1,2,3,6,7,8-HxCDD-13C	*1300*		*pg/L*	*1900*		*65*	*40.0-135.0*			
1,2,3,6,7,8-HxCDF-13C	*1300*		*pg/L*	*1900*		*68*	*40.0-135.0*			
1,2,3,7,8,9-HxCDF-13C	*1200*		*pg/L*	*1900*		*61*	*40.0-135.0*			
1,2,3,7,8-PeCDD-13C	*1400*		*pg/L*	*1900*		*70*	*40.0-135.0*			
1,2,3,7,8-PeCDF-13C	*1200*		*pg/L*	*1900*		*64*	*40.0-135.0*			
2,3,4,6,7,8-HxCDF-13C	*1300*		*pg/L*	*1900*		*65*	*40.0-135.0*			
2,3,4,7,8-PeCDF-13C	*1300*		*pg/L*	*1900*		*67*	*40.0-135.0*			
2,3,7,8-TCDD-13C	*1000*		*pg/L*	*1900*		*53*	*40.0-135.0*			
2,3,7,8-TCDF-13C	*1200*		*pg/L*	*1900*		*60*	*40.0-135.0*			
OCDD-13C	*1400*		*pg/L*	*3900*		*37*	*40.0-135.0*			*P*

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Project Number: 2023 Annual CWRF Effluent priority Pollutant Scan

Project Manager: Rachael Morgan

Reported: 06/30/2023 09:43

Quality Control Results

(Continued)

Acid and Base/Neutral Extractables by GC/MS

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W3E2119 - EPA 625.1										
Blank (W3E2119-BLK1)				**Prepared: 05/24/23 Analyzed: 06/16/23**						
1,2,4-Trichlorobenzene	ND	1.0	ug/l							
1,2-Dichlorobenzene	ND	1.0	ug/l							
1,2-Diphenylhydrazine/Azobenzene	ND	1.0	ug/l							
1,3-Dichlorobenzene	ND	1.0	ug/l							
1,4-Dichlorobenzene	ND	1.0	ug/l							
2,4,6-Trichlorophenol	ND	1.0	ug/l							
2,4-Dichlorophenol	ND	1.0	ug/l							
2,4-Dimethylphenol	ND	1.0	ug/l							
2,4-Dinitrophenol	ND	10	ug/l							
2,4-Dinitrotoluene	ND	1.0	ug/l							
2,6-Dinitrotoluene	ND	1.0	ug/l							
2-Chloronaphthalene	ND	1.0	ug/l							
2-Chlorophenol	ND	1.0	ug/l							
2-Methyl-4,6-dinitrophenol	ND	5.0	ug/l							
2-Nitrophenol	ND	1.0	ug/l							
3,3'-Dichlorobenzidine	ND	5.0	ug/l							
4-Bromophenyl phenyl ether	ND	1.0	ug/l							
4-Chloro-3-methylphenol	ND	1.0	ug/l							
4-Chlorophenyl phenyl ether	ND	1.0	ug/l							
4-Nitrophenol	ND	5.0	ug/l							
Acenaphthene	ND	1.0	ug/l							
Acenaphthylene	ND	1.0	ug/l							
Anthracene	ND	1.0	ug/l							
Benzidine	ND	10	ug/l							
Benzo (a) anthracene	ND	1.0	ug/l							
Benzo (a) pyrene	ND	1.0	ug/l							
Benzo (b) fluoranthene	ND	1.0	ug/l							
Benzo (g,h,i) perylene	ND	2.0	ug/l							
Benzo (k) fluoranthene	ND	1.0	ug/l							
Bis(2-chloroethoxy)methane	ND	1.0	ug/l							
Bis(2-chloroethyl)ether	ND	1.0	ug/l							
Bis(2-chloroisopropyl)ether	ND	1.0	ug/l							
Bis(2-ethylhexyl)phthalate	ND	5.0	ug/l							B-02
Butyl benzyl phthalate	ND	1.0	ug/l							
Chrysene	ND	1.0	ug/l							
Dibenzo (a,h) anthracene	ND	2.0	ug/l							
Diethyl phthalate	ND	1.0	ug/l							
Dimethyl phthalate	ND	1.0	ug/l							
Di-n-butyl phthalate	ND	1.0	ug/l							

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Project Number: 2023 Annual CWRF Effluent priority Pollutant Scan

Project Manager: Rachael Morgan

Reported: 06/30/2023 09:43

Quality Control Results

(Continued)

Acid and Base/Neutral Extractables by GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W3E2119 - EPA 625.1 (Continued)										
Blank (W3E2119-BLK1)				**Prepared: 05/24/23 Analyzed: 06/16/23**						
Di-n-octyl phthalate	ND	1.0	ug/l							
Fluoranthene	ND	1.0	ug/l							
Fluorene	ND	1.0	ug/l							
Hexachlorobenzene	ND	1.0	ug/l							
Hexachlorobutadiene	ND	1.0	ug/l							
Hexachlorocyclopentadiene	ND	5.0	ug/l							
Hexachloroethane	ND	1.0	ug/l							
Indeno (1,2,3-cd) pyrene	ND	2.0	ug/l							
Isophorone	ND	1.0	ug/l							
Naphthalene	ND	1.0	ug/l							
Nitrobenzene	ND	1.0	ug/l							
N-Nitrosodimethylamine	ND	1.0	ug/l							
N-Nitrosodi-n-propylamine	ND	1.0	ug/l							
N-Nitrosodiphenylamine	ND	1.0	ug/l							
Pentachlorophenol	ND	1.0	ug/l							
Phenanthrene	ND	1.0	ug/l							
Phenol	ND	1.0	ug/l							
Pyrene	ND	1.0	ug/l							
Surrogate(s)										
2,4,6-Tribromophenol	*33.5*		*ug/l*	*40.0*		*84*	*25-120*			
2-Fluorobiphenyl	*15.5*		*ug/l*	*20.0*		*78*	*22-120*			
2-Fluorophenol	*18.2*		*ug/l*	*40.0*		*46*	*17-120*			
Nitrobenzene-d5	*15.2*		*ug/l*	*20.0*		*76*	*47-120*			
Phenol-d5	*11.9*		*ug/l*	*40.0*		*30*	*12-120*			
Terphenyl-d14	*20.9*		*ug/l*	*20.0*		*104*	*44-129*			
LCS (W3E2119-BS1)				**Prepared: 05/24/23 Analyzed: 06/16/23**						
1,2,4-Trichlorobenzene	10.1	1.0	ug/l	20.0		50	57-130			BS-04
1,2-Dichlorobenzene	8.97	1.0	ug/l	20.0		45	57-120			BS-04
1,3-Dichlorobenzene	8.41	1.0	ug/l	20.0		42	55-120			Q-02
1,4-Dichlorobenzene	8.16	1.0	ug/l	20.0		41	55-120			Q-02
2,4,6-Trichlorophenol	12.7	1.0	ug/l	20.0		64	52-129			
2,4-Dichlorophenol	12.3	1.0	ug/l	20.0		62	53-122			
2,4-Dimethylphenol	10.4	1.0	ug/l	20.0		52	42-120			
2,4-Dinitrophenol	16.1	10	ug/l	20.0		81	0.1-173			
2,4-Dinitrotoluene	15.5	1.0	ug/l	20.0		77	48-127			
2,6-Dinitrotoluene	12.8	1.0	ug/l	20.0		64	68-137			BS-04
2-Chloronaphthalene	12.1	1.0	ug/l	20.0		60	65-120			BS-04
2-Chlorophenol	9.51	1.0	ug/l	20.0		48	36-120			
2-Methyl-4,6-dinitrophenol	17.3	5.0	ug/l	20.0		86	53-130			

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Project Number: 2023 Annual CWRF Effluent priority Pollutant Scan

Project Manager: Rachael Morgan

Reported: 06/30/2023 09:43

Quality Control Results

(Continued)

Acid and Base/Neutral Extractables by GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W3E2119 - EPA 625.1 (Continued)										
LCS (W3E2119-BS1)				**Prepared: 05/24/23 Analyzed: 06/16/23**						
2-Nitrophenol	11.4	1.0	ug/l	20.0		57	45-167			
3,3'-Dichlorobenzidine	9.06	5.0	ug/l	20.0		45	8-213			
4-Bromophenyl phenyl ether	13.5	1.0	ug/l	20.0		68	65-120			
4-Chloro-3-methylphenol	12.7	1.0	ug/l	20.0		63	41-128			
4-Chlorophenyl phenyl ether	11.9	1.0	ug/l	20.0		59	38-145			
4-Nitrophenol	6.06	5.0	ug/l	20.0		30	13-129			
Acenaphthene	12.6	1.0	ug/l	20.0		63	60-132			
Acenaphthylene	14.0	1.0	ug/l	20.0		70	54-126			
Anthracene	13.0	1.0	ug/l	20.0		65	43-120			
Benzo (a) anthracene	12.7	1.0	ug/l	20.0		64	42-133			
Benzo (a) pyrene	15.4	1.0	ug/l	20.0		77	32-148			
Benzo (b) fluoranthene	14.6	1.0	ug/l	20.0		73	42-140			AN-IP
Benzo (g,h,i) perylene	13.9	2.0	ug/l	20.0		70	0.1-195			
Benzo (k) fluoranthene	14.2	1.0	ug/l	20.0		71	25-146			AN-IP
Bis(2-chloroethoxy)methane	10.7	1.0	ug/l	20.0		54	49-165			
Bis(2-chloroethyl)ether	8.59	1.0	ug/l	20.0		43	43-126			
Bis(2-chloroisopropyl)ether	8.55	1.0	ug/l	20.0		43	63-139			Q-02
Bis(2-ethylhexyl)phthalate	15.2	5.0	ug/l	20.0		76	29-137			
Butyl benzyl phthalate	14.3	1.0	ug/l	20.0		71	0.1-140			
Chrysene	13.6	1.0	ug/l	20.0		68	44-140			
Dibenzo (a,h) anthracene	14.6	2.0	ug/l	20.0		73	0.1-200			
Diethyl phthalate	12.6	1.0	ug/l	20.0		63	0.1-120			
Dimethyl phthalate	13.5	1.0	ug/l	20.0		67	0.1-120			
Di-n-butyl phthalate	14.8	1.0	ug/l	20.0		74	8-120			
Di-n-octyl phthalate	15.8	1.0	ug/l	20.0		79	19-132			
Fluoranthene	13.1	1.0	ug/l	20.0		65	43-121			
Fluorene	13.1	1.0	ug/l	20.0		66	70-120			BS-04
Hexachlorobenzene	14.0	1.0	ug/l	20.0		70	8-142			
Hexachlorobutadiene	11.2	1.0	ug/l	20.0		56	38-120			
Hexachlorocyclopentadiene	5.23	5.0	ug/l	20.0		26	10-120			
Hexachloroethane	9.57	1.0	ug/l	20.0		48	55-120			BS-04
Indeno (1,2,3-cd) pyrene	11.6	2.0	ug/l	20.0		58	0.1-151			
Isophorone	11.7	1.0	ug/l	20.0		58	47-180			
Naphthalene	10.2	1.0	ug/l	20.0		51	36-120			
Nitrobenzene	9.92	1.0	ug/l	20.0		50	54-158			BS-04
N-Nitrosodimethylamine	6.22	1.0	ug/l	20.0		31	22-120			
N-Nitrosodi-n-propylamine	11.2	1.0	ug/l	20.0		56	14-198			
N-Nitrosodiphenylamine	10.6	1.0	ug/l	20.0		53	47-120			
Pentachlorophenol	13.6	1.0	ug/l	20.0		68	41-120			

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Project Number: 2023 Annual CWRF Effluent priority Pollutant Scan

Project Manager: Rachael Morgan

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Quality Control Results

(Continued)

Acid and Base/Neutral Extractables by GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W3E2119 - EPA 625.1 (Continued)										
LCS (W3E2119-BS1)				**Prepared: 05/24/23 Analyzed: 06/16/23**						
Phenanthrene	13.0	1.0	ug/l	20.0		65	65-120			
Phenol	3.43	1.0	ug/l	20.0		17	17-120			
Pyrene	13.0	1.0	ug/l	20.0		65	70-120			Q-02
Surrogate(s)										
2,4,6-Tribromophenol	*27.0*		*ug/l*	*40.0*		*67*	*25-120*			
2-Fluorobiphenyl	*12.5*		*ug/l*	*20.0*		*62*	*22-120*			
2-Fluorophenol	*11.6*		*ug/l*	*40.0*		*29*	*17-120*			
Nitrobenzene-d5	*11.2*		*ug/l*	*20.0*		*56*	*47-120*			
Phenol-d5	*7.65*		*ug/l*	*40.0*		*19*	*12-120*			
Terphenyl-d14	*15.0*		*ug/l*	*20.0*		*75*	*44-129*			
LCS Dup (W3E2119-BSD1)				**Prepared: 05/24/23 Analyzed: 06/16/23**						
1,2,4-Trichlorobenzene	13.0	1.0	ug/l	20.0		65	57-130	26	30	
1,2-Dichlorobenzene	11.7	1.0	ug/l	20.0		59	57-120	27	30	
1,3-Dichlorobenzene	10.6	1.0	ug/l	20.0		53	55-120	23	30	Q-02
1,4-Dichlorobenzene	10.4	1.0	ug/l	20.0		52	55-120	24	30	Q-02
2,4,6-Trichlorophenol	14.5	1.0	ug/l	20.0		72	52-129	13	30	
2,4-Dichlorophenol	15.3	1.0	ug/l	20.0		77	53-122	21	30	
2,4-Dimethylphenol	13.4	1.0	ug/l	20.0		67	42-120	25	30	
2,4-Dinitrophenol	15.8	10	ug/l	20.0		79	0.1-173	2	30	
2,4-Dinitrotoluene	17.5	1.0	ug/l	20.0		87	48-127	12	30	
2,6-Dinitrotoluene	14.3	1.0	ug/l	20.0		71	68-137	11	30	
2-Chloronaphthalene	14.0	1.0	ug/l	20.0		70	65-120	15	30	
2-Chlorophenol	12.2	1.0	ug/l	20.0		61	36-120	24	30	
2-Methyl-4,6-dinitrophenol	18.6	5.0	ug/l	20.0		93	53-130	7	30	
2-Nitrophenol	14.6	1.0	ug/l	20.0		73	45-167	24	30	
3,3'-Dichlorobenzidine	8.37	5.0	ug/l	20.0		42	8-213	8	30	
4-Bromophenyl phenyl ether	15.3	1.0	ug/l	20.0		77	65-120	12	30	
4-Chloro-3-methylphenol	14.4	1.0	ug/l	20.0		72	41-128	13	30	
4-Chlorophenyl phenyl ether	13.6	1.0	ug/l	20.0		68	38-145	13	30	
4-Nitrophenol	5.96	5.0	ug/l	20.0		30	13-129	2	30	
Acenaphthene	14.3	1.0	ug/l	20.0		71	60-132	13	30	
Acenaphthylene	15.9	1.0	ug/l	20.0		79	54-126	12	30	
Anthracene	14.1	1.0	ug/l	20.0		70	43-120	8	30	
Benzo (a) anthracene	13.5	1.0	ug/l	20.0		67	42-133	6	30	
Benzo (a) pyrene	16.7	1.0	ug/l	20.0		83	32-148	8	30	
Benzo (b) fluoranthene	15.9	1.0	ug/l	20.0		80	42-140	8	30	AN-IP
Benzo (g,h,i) perylene	15.6	2.0	ug/l	20.0		78	0.1-195	11	30	
Benzo (k) fluoranthene	15.8	1.0	ug/l	20.0		79	25-146	11	30	AN-IP
Bis(2-chloroethoxy)methane	13.4	1.0	ug/l	20.0		67	49-165	22	30	

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Quality Control Results

(Continued)

Acid and Base/Neutral Extractables by GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W3E2119 - EPA 625.1 (Continued)										
LCS Dup (W3E2119-BSD1)				**Prepared: 05/24/23 Analyzed: 06/16/23**						
Bis(2-chloroethyl)ether	11.3	1.0	ug/l	20.0		56	43-126	27	30	
Bis(2-chloroisopropyl)ether	11.4	1.0	ug/l	20.0		57	63-139	28	30	Q-02
Bis(2-ethylhexyl)phthalate	16.1	5.0	ug/l	20.0		80	29-137	6	30	
Butyl benzyl phthalate	15.2	1.0	ug/l	20.0		76	0.1-140	6	30	
Chrysene	15.3	1.0	ug/l	20.0		76	44-140	12	30	
Dibenzo (a,h) anthracene	16.1	2.0	ug/l	20.0		81	0.1-200	10	30	
Diethyl phthalate	13.6	1.0	ug/l	20.0		68	0.1-120	8	30	
Dimethyl phthalate	14.6	1.0	ug/l	20.0		73	0.1-120	8	30	
Di-n-butyl phthalate	15.9	1.0	ug/l	20.0		79	8-120	7	30	
Di-n-octyl phthalate	17.3	1.0	ug/l	20.0		86	19-132	9	30	
Fluoranthene	13.6	1.0	ug/l	20.0		68	43-121	4	30	
Fluorene	14.7	1.0	ug/l	20.0		73	70-120	11	30	
Hexachlorobenzene	15.2	1.0	ug/l	20.0		76	8-142	9	30	
Hexachlorobutadiene	14.8	1.0	ug/l	20.0		74	38-120	27	30	
Hexachlorocyclopentadiene	7.32	5.0	ug/l	20.0		37	10-120	33	30	Q-12
Hexachloroethane	12.2	1.0	ug/l	20.0		61	55-120	24	30	
Indeno (1,2,3-cd) pyrene	13.6	2.0	ug/l	20.0		68	0.1-151	16	30	
Isophorone	13.5	1.0	ug/l	20.0		67	47-180	14	30	
Naphthalene	12.7	1.0	ug/l	20.0		64	36-120	22	30	
Nitrobenzene	13.0	1.0	ug/l	20.0		65	54-158	26	30	
N-Nitrosodimethylamine	6.95	1.0	ug/l	20.0		35	22-120	11	30	
N-Nitrosodi-n-propylamine	14.4	1.0	ug/l	20.0		72	14-198	25	30	
N-Nitrosodiphenylamine	11.7	1.0	ug/l	20.0		59	47-120	10	30	
Pentachlorophenol	15.0	1.0	ug/l	20.0		75	41-120	10	30	
Phenanthrene	13.5	1.0	ug/l	20.0		68	65-120	4	30	
Phenol	4.45	1.0	ug/l	20.0		22	17-120	26	30	
Pyrene	13.9	1.0	ug/l	20.0		69	70-120	7	30	Q-02
Surrogate(s)										
2,4,6-Tribromophenol	*29.1*		*ug/l*	*40.0*		*73*	*25-120*			
2-Fluorobiphenyl	*14.6*		*ug/l*	*20.0*		*73*	*22-120*			
2-Fluorophenol	*14.0*		*ug/l*	*40.0*		*35*	*17-120*			
Nitrobenzene-d5	*14.3*		*ug/l*	*20.0*		*72*	*47-120*			
Phenol-d5	*9.84*		*ug/l*	*40.0*		*25*	*12-120*			
Terphenyl-d14	*15.9*		*ug/l*	*20.0*		*80*	*44-129*			

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Quality Control Results

(Continued)

Chlorinated Pesticides and/or PCBs by GC/ECD

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W3E2230 - EPA 608.3										
Blank (W3E2230-BLK1)				**Prepared: 05/25/23 Analyzed: 05/31/23**						
4,4´-DDD	ND	0.050	ug/l							
4,4´-DDE	ND	0.050	ug/l							
4,4´-DDT	ND	0.010	ug/l							
Aldrin	ND	0.0050	ug/l							
alpha-BHC	ND	0.010	ug/l							
Aroclor 1016	ND	0.50	ug/l							
Aroclor 1221	ND	0.50	ug/l							
Aroclor 1232	ND	0.50	ug/l							
Aroclor 1242	ND	0.50	ug/l							
Aroclor 1248	ND	0.50	ug/l							
Aroclor 1254	ND	0.50	ug/l							
Aroclor 1260	ND	0.50	ug/l							
beta-BHC	ND	0.0050	ug/l							
Chlordane (tech)	ND	0.10	ug/l							
delta-BHC	ND	0.0050	ug/l							
Dieldrin	ND	0.010	ug/l							
Endosulfan I	ND	0.020	ug/l							
Endosulfan II	ND	0.010	ug/l							
Endosulfan sulfate	ND	0.050	ug/l							
Endrin	ND	0.010	ug/l							
Endrin aldehyde	ND	0.010	ug/l							
gamma-BHC (Lindane)	ND	0.020	ug/l							
Heptachlor	ND	0.010	ug/l							
Heptachlor epoxide	ND	0.010	ug/l							
Toxaphene	ND	0.50	ug/l							
Surrogate(s)										
Decachlorobiphenyl	*0.0784*		*ug/l*	*0.100*		*78*	*33-133*			
Tetrachloro-meta-xylene	*0.0621*		*ug/l*	*0.100*		*62*	*32-130*			
Blank (W3E2230-BLK2)				**Prepared: 05/25/23 Analyzed: 06/16/23**						
4,4´-DDD	ND	0.050	ug/l							QC-2
4,4´-DDE	ND	0.050	ug/l							QC-2
4,4´-DDT	ND	0.010	ug/l							QC-2
Aldrin	ND	0.0050	ug/l							QC-2
alpha-BHC	ND	0.010	ug/l							QC-2
Aroclor 1016	ND	0.50	ug/l							QC-2
Aroclor 1221	ND	0.50	ug/l							QC-2
Aroclor 1232	ND	0.50	ug/l							QC-2
Aroclor 1242	ND	0.50	ug/l							QC-2
Aroclor 1248	ND	0.50	ug/l							QC-2

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Quality Control Results

(Continued)

Chlorinated Pesticides and/or PCBs by GC/ECD (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W3E2230 - EPA 608.3 (Continued)										
Blank (W3E2230-BLK2)				**Prepared: 05/25/23 Analyzed: 06/16/23**						
Aroclor 1254	ND	0.50	ug/l							QC-2
Aroclor 1260	ND	0.50	ug/l							QC-2
beta-BHC	ND	0.0050	ug/l							QC-2
Chlordane (tech)	ND	0.10	ug/l							QC-2
delta-BHC	ND	0.0050	ug/l							QC-2
Dieldrin	ND	0.010	ug/l							QC-2
Endosulfan I	ND	0.020	ug/l							QC-2
Endosulfan II	ND	0.010	ug/l							QC-2
Endosulfan sulfate	ND	0.050	ug/l							QC-2
Endrin	ND	0.010	ug/l							QC-2
Endrin aldehyde	ND	0.010	ug/l							QC-2
gamma-BHC (Lindane)	ND	0.020	ug/l							QC-2
Heptachlor	ND	0.010	ug/l							QC-2
Heptachlor epoxide	ND	0.010	ug/l							QC-2
Toxaphene	ND	0.50	ug/l							QC-2
Surrogate(s)										
Decachlorobiphenyl	*0.0828*		*ug/l*	*0.100*		*83*	*33-133*			QC-2
Tetrachloro-meta-xylene	*0.0697*		*ug/l*	*0.100*		*70*	*32-130*			QC-2
LCS (W3E2230-BS1)				**Prepared: 05/25/23 Analyzed: 05/31/23**						
4,4´-DDD	0.0890	0.050	ug/l	0.100		89	48-130			
4,4´-DDE	0.0736	0.050	ug/l	0.100		74	54-130			
4,4´-DDT	0.109	0.010	ug/l	0.100		109	46-137			
Aldrin	0.0670	0.0050	ug/l	0.100		67	54-130			
alpha-BHC	0.0723	0.010	ug/l	0.100		72	49-130			
beta-BHC	0.0753	0.0050	ug/l	0.100		75	39-130			
delta-BHC	0.0732	0.0050	ug/l	0.100		73	51-130			
Dieldrin	0.0738	0.010	ug/l	0.100		74	58-130			
Endosulfan I	0.0687	0.020	ug/l	0.100		69	57-141			
Endosulfan II	0.0814	0.010	ug/l	0.100		81	22-171			
Endosulfan sulfate	0.0889	0.050	ug/l	0.100		89	38-132			
Endrin	0.0893	0.010	ug/l	0.100		89	51-130			
Endrin aldehyde	0.0734	0.010	ug/l	0.100		73	18-130			
gamma-BHC (Lindane)	0.0740	0.020	ug/l	0.100		74	43-130			
Heptachlor	0.0788	0.010	ug/l	0.100		79	43-130			
Heptachlor epoxide	0.0810	0.010	ug/l	0.100		81	57-132			
Surrogate(s)										
Decachlorobiphenyl	*0.0832*		*ug/l*	*0.100*		*83*	*33-133*			
Tetrachloro-meta-xylene	*0.0581*		*ug/l*	*0.100*		*58*	*32-130*			
LCS (W3E2230-BS2)				**Prepared: 05/25/23 Analyzed: 06/16/23**						

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Project Manager: Rachael Morgan

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Quality Control Results

(Continued)

Chlorinated Pesticides and/or PCBs by GC/ECD (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W3E2230 - EPA 608.3 (Continued)										
LCS (W3E2230-BS2)				**Prepared: 05/25/23 Analyzed: 06/16/23**						
4,4´-DDD	0.0946	0.050	ug/l	0.100		95	48-130			QC-2
4,4´-DDE	0.0817	0.050	ug/l	0.100		82	54-130			QC-2
4,4´-DDT	0.113	0.010	ug/l	0.100		113	46-137			QC-2
Aldrin	0.0731	0.0050	ug/l	0.100		73	54-130			QC-2
alpha-BHC	0.0817	0.010	ug/l	0.100		82	49-130			QC-2
beta-BHC	0.0794	0.0050	ug/l	0.100		79	39-130			QC-2
delta-BHC	0.0770	0.0050	ug/l	0.100		77	51-130			QC-2
Dieldrin	0.0797	0.010	ug/l	0.100		80	58-130			QC-2
Endosulfan I	0.0761	0.020	ug/l	0.100		76	57-141			QC-2
Endosulfan II	0.0874	0.010	ug/l	0.100		87	22-171			QC-2
Endosulfan sulfate	0.0956	0.050	ug/l	0.100		96	38-132			QC-2
Endrin	0.100	0.010	ug/l	0.100		100	51-130			QC-2
Endrin aldehyde	0.0815	0.010	ug/l	0.100		82	18-130			QC-2
gamma-BHC (Lindane)	0.0852	0.020	ug/l	0.100		85	43-130			QC-2
Heptachlor	0.0887	0.010	ug/l	0.100		89	43-130			QC-2
Heptachlor epoxide	0.0905	0.010	ug/l	0.100		91	57-132			QC-2
Surrogate(s)										
Decachlorobiphenyl	*0.0844*		*ug/l*	*0.100*		*84*	*33-133*			QC-2
Tetrachloro-meta-xylene	*0.0625*		*ug/l*	*0.100*		*63*	*32-130*			QC-2
LCS Dup (W3E2230-BSD1)				**Prepared: 05/25/23 Analyzed: 05/31/23**						
4,4´-DDD	0.0850	0.050	ug/l	0.100		85	48-130	5	30	
4,4´-DDE	0.0647	0.050	ug/l	0.100		65	54-130	13	30	
4,4´-DDT	0.104	0.010	ug/l	0.100		104	46-137	4	30	
Aldrin	0.0667	0.0050	ug/l	0.100		67	54-130	0.4	30	
alpha-BHC	0.0721	0.010	ug/l	0.100		72	49-130	0.3	30	
beta-BHC	0.0744	0.0050	ug/l	0.100		74	39-130	1	30	
delta-BHC	0.0704	0.0050	ug/l	0.100		70	51-130	4	30	
Dieldrin	0.0724	0.010	ug/l	0.100		72	58-130	2	30	
Endosulfan I	0.0673	0.020	ug/l	0.100		67	57-141	2	30	
Endosulfan II	0.0791	0.010	ug/l	0.100		79	22-171	3	30	
Endosulfan sulfate	0.0810	0.050	ug/l	0.100		81	38-132	9	30	
Endrin	0.0885	0.010	ug/l	0.100		89	51-130	0.8	30	
Endrin aldehyde	0.0737	0.010	ug/l	0.100		74	18-130	0.4	30	
gamma-BHC (Lindane)	0.0715	0.020	ug/l	0.100		71	43-130	4	30	
Heptachlor	0.0779	0.010	ug/l	0.100		78	43-130	1	30	
Heptachlor epoxide	0.0809	0.010	ug/l	0.100		81	57-132	0.2	30	
Surrogate(s)										
Decachlorobiphenyl	*0.0669*		*ug/l*	*0.100*		*67*	*33-133*			
Tetrachloro-meta-xylene	*0.0568*		*ug/l*	*0.100*		*57*	*32-130*			

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Quality Control Results (Continued)

Chlorinated Pesticides and/or PCBs by GC/ECD (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W3E2230 - EPA 608.3 (Continued)										
LCS Dup (W3E2230-BSD2)				**Prepared: 05/25/23**	**Analyzed: 06/16/23**					
4,4´-DDD	0.0922	0.050	ug/l	0.100		92	48-130	3	30	QC-2
4,4´-DDE	0.0714	0.050	ug/l	0.100		71	54-130	13	30	QC-2
4,4´-DDT	0.112	0.010	ug/l	0.100		112	46-137	1	30	QC-2
Aldrin	0.0718	0.0050	ug/l	0.100		72	54-130	2	30	QC-2
alpha-BHC	0.0798	0.010	ug/l	0.100		80	49-130	2	30	QC-2
beta-BHC	0.0755	0.0050	ug/l	0.100		76	39-130	5	30	QC-2
delta-BHC	0.0700	0.0050	ug/l	0.100		70	51-130	10	30	QC-2
Dieldrin	0.0776	0.010	ug/l	0.100		78	58-130	3	30	QC-2
Endosulfan I	0.0735	0.020	ug/l	0.100		73	57-141	4	30	QC-2
Endosulfan II	0.0853	0.010	ug/l	0.100		85	22-171	2	30	QC-2
Endosulfan sulfate	0.0954	0.050	ug/l	0.100		95	38-132	0.2	30	QC-2
Endrin	0.0964	0.010	ug/l	0.100		96	51-130	4	30	QC-2
Endrin aldehyde	0.0807	0.010	ug/l	0.100		81	18-130	1	30	QC-2
gamma-BHC (Lindane)	0.0813	0.020	ug/l	0.100		81	43-130	5	30	QC-2
Heptachlor	0.0873	0.010	ug/l	0.100		87	43-130	2	30	QC-2
Heptachlor epoxide	0.0851	0.010	ug/l	0.100		85	57-132	6	30	QC-2
Surrogate(s)										
Decachlorobiphenyl	*0.0705*		*ug/l*	*0.100*		*71*	*33-133*			*QC-2*
Tetrachloro-meta-xylene	*0.0628*		*ug/l*	*0.100*		*63*	*32-130*			*QC-2*

Quality Control Results (Continued)

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W3E1945 - EPA 335.4										
Blank (W3E1945-BLK1)				**Prepared: 05/22/23**	**Analyzed: 05/24/23**					
Cyanide, Total	ND	5.0	ug/l							
LCS (W3E1945-BS1)				**Prepared: 05/22/23**	**Analyzed: 05/24/23**					
Cyanide, Total	97.5	5.0	ug/l	100		98	90-110			
Matrix Spike (W3E1945-MS1)	**Source: 3E19040-01**			**Prepared: 05/22/23**	**Analyzed: 05/24/23**					
Cyanide, Total	97.2	5.0	ug/l	200	ND	49	90-110			MS-01
Matrix Spike (W3E1945-MS2)	**Source: 3E19040-01**			**Prepared: 05/22/23**	**Analyzed: 05/24/23**					
Cyanide, Total	200	5.0	ug/l	200	ND	100	90-110			
Matrix Spike Dup (W3E1945-MSD1)	**Source: 3E19040-01**			**Prepared: 05/22/23**	**Analyzed: 05/24/23**					
Cyanide, Total	136	5.0	ug/l	200	ND	68	90-110	33	20	MS-01
Matrix Spike Dup (W3E1945-MSD2)	**Source: 3E19040-01**			**Prepared: 05/22/23**	**Analyzed: 05/24/23**					
Cyanide, Total	202	5.0	ug/l	200	ND	101	90-110	1	20	

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Quality Control Results (Continued)

Metals by EPA 200 Series Methods

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W3E2124 - EPA 200.7										
Blank (W3E2124-BLK1)				**Prepared: 05/24/23**	**Analyzed: 05/25/23**					
Aluminum, Total	ND	0.050	mg/l							
Barium, Total	ND	0.0020	mg/l							
LCS (W3E2124-BS1)				**Prepared: 05/24/23**	**Analyzed: 05/25/23**					
Aluminum, Total	0.229	0.050	mg/l	0.200		114	85-115			
Barium, Total	0.203	0.0020	mg/l	0.200		102	85-115			
Matrix Spike (W3E2124-MS1)	**Source: 3E18071-01**			**Prepared: 05/24/23**	**Analyzed: 05/25/23**					
Aluminum, Total	0.426	0.050	mg/l	0.200	0.191	117	70-130			
Barium, Total	0.235	0.0020	mg/l	0.200	0.0293	103	70-130			
Matrix Spike Dup (W3E2124-MSD1)	**Source: 3E18071-01**			**Prepared: 05/24/23**	**Analyzed: 05/25/23**					
Aluminum, Total	0.422	0.050	mg/l	0.200	0.191	115	70-130	0.9	30	
Barium, Total	0.234	0.0020	mg/l	0.200	0.0293	102	70-130	0.6	30	
Batch: W3E2344 - EPA 245.1										
Blank (W3E2344-BLK1)				**Prepared: 05/25/23**	**Analyzed: 05/30/23**					
Mercury, Total	ND	0.050	ug/l							
LCS (W3E2344-BS1)				**Prepared: 05/25/23**	**Analyzed: 05/30/23**					
Mercury, Total	1.07	0.050	ug/l	1.00		107	85-115			
Matrix Spike (W3E2344-MS1)	**Source: 3C28041-01**			**Prepared: 05/25/23**	**Analyzed: 05/30/23**					
Mercury, Total	1.36	0.050	ug/l	1.00	ND	136	70-130			MS-01
Matrix Spike (W3E2344-MS2)	**Source: 3E19084-04**			**Prepared: 05/25/23**	**Analyzed: 05/30/23**					
Mercury, Total	1.08	0.050	ug/l	1.00	ND	108	70-130			
Matrix Spike Dup (W3E2344-MSD1)	**Source: 3C28041-01**			**Prepared: 05/25/23**	**Analyzed: 05/30/23**					
Mercury, Total	0.895	0.050	ug/l	1.00	ND	89	70-130	41	20	R-02
Matrix Spike Dup (W3E2344-MSD2)	**Source: 3E19084-04**			**Prepared: 05/25/23**	**Analyzed: 05/30/23**					
Mercury, Total	1.07	0.050	ug/l	1.00	ND	107	70-130	0.8	20	

Quality Control Results (Continued)

Perchlorate by EPA 314.0

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W3E1819 - EPA 314.0										
Blank (W3E1819-BLK1)				**Prepared: 05/19/23**	**Analyzed: 05/24/23**					
Perchlorate	ND	2.0	ug/l							
LCS (W3E1819-BS1)				**Prepared: 05/19/23**	**Analyzed: 05/24/23**					
Perchlorate	9.92	2.0	ug/l	10.0		99	85-115			
Matrix Spike (W3E1819-MS1)	**Source: 3E17064-01**			**Prepared: 05/19/23**	**Analyzed: 05/24/23**					
Perchlorate	8.95	2.0	ug/l	10.0	ND	89	80-120			
Matrix Spike Dup (W3E1819-MSD1)	**Source: 3E17064-01**			**Prepared: 05/19/23**	**Analyzed: 05/24/23**					
Perchlorate	9.45	2.0	ug/l	10.0	ND	94	80-120	5	15	

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Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W3E1870 - EPA 624.1										
Blank (W3E1870-BLK1)				**Prepared & Analyzed: 05/22/23**						
1,1,1-Trichloroethane	ND	1.0	ug/l							
1,1,2,2-Tetrachloroethane	ND	1.0	ug/l							
1,1,2-Trichloroethane	ND	1.0	ug/l							
1,1-Dichloroethane	ND	1.0	ug/l							
1,1-Dichloroethene	ND	1.0	ug/l							
1,2-Dichloroethane	ND	1.0	ug/l							
1,2-Dichloropropane	ND	1.0	ug/l							
2-Butanone	ND	5.0	ug/l							
2-Chloroethyl vinyl ether	ND	1.0	ug/l							
2-Hexanone	ND	5.0	ug/l							
4-Methyl-2-pentanone	ND	5.0	ug/l							
Acetone	ND	5.0	ug/l							
Acrolein	ND	5.0	ug/l							
Acrylonitrile	ND	2.0	ug/l							
Benzene	ND	1.0	ug/l							
Bromodichloromethane	ND	1.0	ug/l							
Bromoform	ND	1.0	ug/l							
Bromomethane	ND	1.0	ug/l							
Carbon Disulfide	ND	1.0	ug/l							
Carbon tetrachloride	ND	1.0	ug/l							
Chlorobenzene	ND	1.0	ug/l							
Chloroethane	ND	1.0	ug/l							
Chloroform	ND	1.0	ug/l							
Chloromethane	ND	1.0	ug/l							
cis-1,3-Dichloropropene	ND	1.0	ug/l							
Dibromochloromethane	ND	1.0	ug/l							
Dichlorodifluoromethane (Freon 12)	ND	1.0	ug/l							
Ethylbenzene	ND	1.0	ug/l							
m-Dichlorobenzene	ND	1.0	ug/l							
Methyl tert-butyl ether (MTBE)	ND	1.0	ug/l							
Methylene chloride	ND	1.0	ug/l							
o-Dichlorobenzene	ND	1.0	ug/l							
p-Dichlorobenzene	ND	1.0	ug/l							
Tetrachloroethene	ND	1.0	ug/l							
Toluene	ND	1.0	ug/l							
trans-1,2-Dichloroethene	ND	1.0	ug/l							
trans-1,3-Dichloropropene	ND	1.0	ug/l							
Trichloroethene	ND	1.0	ug/l							
Trichlorofluoromethane	ND	1.0	ug/l							

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Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W3E1870 - EPA 624.1 (Continued)										
Blank (W3E1870-BLK1)				**Prepared & Analyzed: 05/22/23**						
Vinyl chloride	ND	1.0	ug/l							
Surrogate(s)										
1,2-Dichloroethane-d4	*54.5*		*ug/l*	*50.0*		*109*	*82-125*			
4-Bromofluorobenzene	*48.2*		*ug/l*	*50.0*		*96*	*88-108*			
Toluene-d8	*52.5*		*ug/l*	*50.0*		*105*	*92-112*			
LCS (W3E1870-BS1)				**Prepared & Analyzed: 05/22/23**						
1,1,1-Trichloroethane	22.7	1.0	ug/l	20.0		114	52-162			
1,1,2,2-Tetrachloroethane	21.5	1.0	ug/l	20.0		107	46-157			
1,1,2-Trichloroethane	21.9	1.0	ug/l	20.0		109	52-150			
1,1-Dichloroethane	22.0	1.0	ug/l	20.0		110	59-155			
1,1-Dichloroethene	21.4	1.0	ug/l	20.0		107	0.1-234			
1,2-Dichloroethane	20.9	1.0	ug/l	20.0		105	49-155			
1,2-Dichloropropane	22.4	1.0	ug/l	20.0		112	0.1-210			
2-Butanone	22.4	5.0	ug/l	20.0		112	67-136			
2-Chloroethyl vinyl ether	26.0	1.0	ug/l	20.0		130	0.1-305			
2-Hexanone	25.4	5.0	ug/l	20.0		127	76-133			
4-Methyl-2-pentanone	24.9	5.0	ug/l	20.0		125	74-132			
Acetone	228	5.0	ug/l	200		114	60-147			
Acrolein	21.7	5.0	ug/l	20.0		108	49-152			
Acrylonitrile	21.1	2.0	ug/l	20.0		105	74-127			
Benzene	21.4	1.0	ug/l	20.0		107	37-151			
Bromodichloromethane	22.4	1.0	ug/l	20.0		112	35-155			
Bromoform	22.9	1.0	ug/l	20.0		114	45-169			
Bromomethane	23.5	1.0	ug/l	20.0		118	0.1-242			
Carbon Disulfide	22.4	1.0	ug/l	20.0		112	79-118			
Carbon tetrachloride	23.0	1.0	ug/l	20.0		115	70-140			
Chlorobenzene	20.5	1.0	ug/l	20.0		102	37-160			
Chloroethane	20.7	1.0	ug/l	20.0		104	14-230			
Chloroform	20.6	1.0	ug/l	20.0		103	51-138			
Chloromethane	19.9	1.0	ug/l	20.0		100	0.1-273			
cis-1,2-Dichloroethene	21.9	1.0	ug/l	20.0		109	85-121			
cis-1,3-Dichloropropene	22.4	1.0	ug/l	20.0		112	0.1-227			
Dibromochloromethane	23.2	1.0	ug/l	20.0		116	53-149			
Dichlorodifluoromethane (Freon 12)	18.9	1.0	ug/l	20.0		95	67-126			
Ethylbenzene	22.1	1.0	ug/l	20.0		111	37-162			
m,p-Xylene	22.8	1.0	ug/l	20.0		114	81-121			
m-Dichlorobenzene	19.8	1.0	ug/l	20.0		99	59-156			
Methyl tert-butyl ether (MTBE)	93.5	1.0	ug/l	80.0		117	80-128			
Methylene chloride	21.2	1.0	ug/l	20.0		106	0.1-221			

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Encina Wastewater Authority
6200 Avenida Encinas
Carlsbad, CA 92011

Project Number: 2023 Annual CWRF Effluent priority Pollutant Scan

Project Manager: Rachael Morgan

Reported: 06/30/2023 09:43

Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W3E1870 - EPA 624.1 (Continued)										
LCS (W3E1870-BS1)				**Prepared & Analyzed: 05/22/23**						
o-Dichlorobenzene	19.7	1.0	ug/l	20.0		98	18-190			
o-Xylene	22.9	1.0	ug/l	20.0		115	84-121			
p-Dichlorobenzene	19.5	1.0	ug/l	20.0		97	18-190			
Tert-butyl alcohol	92.0	5.0	ug/l	80.0		115	53-144			
Tetrachloroethene	22.1	1.0	ug/l	20.0		110	64-148			
Toluene	21.8	1.0	ug/l	20.0		109	47-150			
trans-1,2-Dichloroethene	20.6	1.0	ug/l	20.0		103	54-156			
trans-1,3-Dichloropropene	22.9	1.0	ug/l	20.0		115	17-183			
Trichloroethene	21.0	1.0	ug/l	20.0		105	71-157			
Trichlorofluoromethane	20.7	1.0	ug/l	20.0		104	17-181			
Vinyl chloride	21.2	1.0	ug/l	20.0		106	0.1-251			
Surrogate(s)										
1,2-Dichloroethane-d4	*47.9*		*ug/l*	*50.0*		*96*	*82-125*			
4-Bromofluorobenzene	*54.6*		*ug/l*	*50.0*		*109*	*88-108*			*S-BS*
Toluene-d8	*51.5*		*ug/l*	*50.0*		*103*	*92-112*			
LCS Dup (W3E1870-BSD1)				**Prepared & Analyzed: 05/22/23**						
1,1,1-Trichloroethane	21.0	1.0	ug/l	20.0		105	52-162	8	25	
1,1,2,2-Tetrachloroethane	20.1	1.0	ug/l	20.0		101	46-157	6	25	
1,1,2-Trichloroethane	19.9	1.0	ug/l	20.0		99	52-150	10	25	
1,1-Dichloroethane	20.8	1.0	ug/l	20.0		104	59-155	5	25	
1,1-Dichloroethene	20.4	1.0	ug/l	20.0		102	0.1-234	5	25	
1,2-Dichloroethane	19.0	1.0	ug/l	20.0		95	49-155	9	25	
1,2-Dichloropropane	20.4	1.0	ug/l	20.0		102	0.1-210	9	25	
2-Butanone	21.2	5.0	ug/l	20.0		106	67-136	5	25	
2-Chloroethyl vinyl ether	25.0	1.0	ug/l	20.0		125	0.1-305	4	25	
2-Hexanone	24.8	5.0	ug/l	20.0		124	76-133	2	25	
4-Methyl-2-pentanone	23.7	5.0	ug/l	20.0		118	74-132	5	25	
Acetone	219	5.0	ug/l	200		110	60-147	4	25	
Acrolein	21.4	5.0	ug/l	20.0		107	49-152	1	25	
Acrylonitrile	20.8	2.0	ug/l	20.0		104	74-127	1	25	
Benzene	19.7	1.0	ug/l	20.0		98	37-151	8	25	
Bromodichloromethane	20.6	1.0	ug/l	20.0		103	35-155	8	25	
Bromoform	21.0	1.0	ug/l	20.0		105	45-169	8	25	
Bromomethane	22.1	1.0	ug/l	20.0		111	0.1-242	6	25	
Carbon Disulfide	21.9	1.0	ug/l	20.0		109	79-118	2	25	
Carbon tetrachloride	21.2	1.0	ug/l	20.0		106	70-140	8	25	
Chlorobenzene	18.7	1.0	ug/l	20.0		94	37-160	9	25	
Chloroethane	19.9	1.0	ug/l	20.0		100	14-230	4	25	
Chloroform	18.7	1.0	ug/l	20.0		93	51-138	10	25	

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Project Number: 2023 Annual CWRF Effluent priority Pollutant Scan

Project Manager: Rachael Morgan

Reported: 06/30/2023 09:43

Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W3E1870 - EPA 624.1 (Continued)										
LCS Dup (W3E1870-BSD1)				**Prepared & Analyzed: 05/22/23**						
Chloromethane	19.1	1.0	ug/l	20.0		95	0.1-273	4	25	
cis-1,2-Dichloroethene	20.2	1.0	ug/l	20.0		101	85-121	8	25	
cis-1,3-Dichloropropene	20.7	1.0	ug/l	20.0		103	0.1-227	8	25	
Dibromochloromethane	21.2	1.0	ug/l	20.0		106	53-149	9	25	
Dichlorodifluoromethane (Freon 12)	19.7	1.0	ug/l	20.0		99	67-126	4	25	
Ethylbenzene	21.2	1.0	ug/l	20.0		106	37-162	4	25	
m,p-Xylene	20.9	1.0	ug/l	20.0		105	81-121	8	25	
m-Dichlorobenzene	18.6	1.0	ug/l	20.0		93	59-156	6	25	
Methyl tert-butyl ether (MTBE)	88.4	1.0	ug/l	80.0		111	80-128	6	25	
Methylene chloride	20.0	1.0	ug/l	20.0		100	0.1-221	6	25	
o-Dichlorobenzene	18.8	1.0	ug/l	20.0		94	18-190	4	25	
o-Xylene	21.1	1.0	ug/l	20.0		105	84-121	8	25	
p-Dichlorobenzene	18.1	1.0	ug/l	20.0		91	18-190	7	25	
Tert-butyl alcohol	86.4	5.0	ug/l	80.0		108	53-144	6	25	
Tetrachloroethene	20.2	1.0	ug/l	20.0		101	64-148	9	25	
Toluene	20.0	1.0	ug/l	20.0		100	47-150	9	25	
trans-1,2-Dichloroethene	19.3	1.0	ug/l	20.0		97	54-156	6	25	
trans-1,3-Dichloropropene	21.3	1.0	ug/l	20.0		107	17-183	7	25	
Trichloroethene	19.1	1.0	ug/l	20.0		95	71-157	9	25	
Trichlorofluoromethane	20.2	1.0	ug/l	20.0		101	17-181	3	25	
Vinyl chloride	20.4	1.0	ug/l	20.0		102	0.1-251	4	25	
Surrogate(s)										
1,2-Dichloroethane-d4	*47.6*		*ug/l*	*50.0*		*95*	*82-125*			
4-Bromofluorobenzene	*54.0*		*ug/l*	*50.0*		*108*	*88-108*			
Toluene-d8	*50.0*		*ug/l*	*50.0*		*100*	*92-112*			

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Encina Wastewater Authority
6200 Avenida Encinas
Carlsbad, CA 92011

Project Number: 2023 Annual CWRF Effluent priority Pollutant Scan

Project Manager: Rachael Morgan

Reported: 06/30/2023 09:43

Notes and Definitions

Item	Definition
AN-IP	Sample results for structural isomers may have contribution from their isomeric pair.
B-02	This analyte is detected in the method blank below the MRL, but above the method acceptance criteria.
BS-04	The recovery of this analyte in LCS or LCSD was outside control limit. Sample was accepted based on the remaining LCS, LCSD or LCS-LL.
M-04	Due to the nature of matrix interferences, sample extract was diluted prior to analysis. The MDL and MRL were raised due to the dilution.
MS-01	The spike recovery for this QC sample is outside of established control limits possibly due to sample matrix interference.
O-04	This analysis was performed outside the EPA recommended holding time.
P	Recovery outside of target range
Q-02	Low recovery of this analyte in the QC sample. The analysis of the low level standard produced acceptable recovery indicating that the sample result might be accurately reported as Not Detected.
Q-12	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on the percent recoveries and/or other acceptable QC data.
QC-2	This QC sample was reanalyzed to complement samples that require re-analysis on different date. See analysis date.
R-02	The RPD was outside of QC acceptance limits due to possible matrix interference.
S-BS	Surrogate recovery outside of control limits for LCS. The data was accepted based on valid recovery of the target analytes.
S-GC	Surrogate recovery outside of control limits due to a possible matrix effect . The data was accepted based on valid recovery of the remaining surrogate.
%REC	Percent Recovery
Dil	Dilution
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ)
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

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ANALYTICAL REPORT

PREPARED FOR

Attn: Rachael Morgan
Encina Wastewater Authority
6200 Avenida Encinas
Carlsbad, California 92011

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JOB DESCRIPTION

2023 Annual Encina Influent Priority PollutantScan

JOB NUMBER

570-130682-1

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin CA 92780

See page two for job notes and contact information.

myEOL

Eurofins Calscience

Job Notes

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The data in the report relate to the field sample(s) as received by the laboratory and associated QC. All results have been reviewed and have been found to be compliant with laboratory and accreditation requirements, with the exception of the noted deviation(s). For questions, please contact the Project Manager.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Calscience Project Manager.

Authorization

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Authorized for release by
Janice Hsu, Project Manager I
Janice.Hsu@et.eurofinsus.com
(657)210-6359

Table of Contents

Definitions/Glossary

Client: Encina Wastewater Authority
Job ID: 570-130682-1
Project/Site: 2023 Annual Encina Influent Priority PollutantScan

Qualifiers

Dioxin

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
q	The reported result is the estimated maximum possible concentration of this analyte, quantitated using the theoretical ion ratio. The measured ion ratio does not meet qualitative identification criteria and indicates a possible interference.

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
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

Case Narrative

Client: Encina Wastewater Authority
Job ID: 570-130682-1
Project/Site: 2023 Annual Encina Influent Priority PollutantScan

Job ID: 570-130682-1

Laboratory: Eurofins Calscience

Narrative

Job Narrative
570-130682-1

Receipt
The sample was received on 3/9/2023 8:18 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.2°C

Dioxin
Method 1613B: EPA Method 1613B specifies a +/- 15 second retention time difference between the recovery standard in the initial calibration (ICAL) and the continuing calibration verification (CCV). The 13C-1,2,3,4-TCDD associated with the following samples run on instrument DFS 1 exceeded this criteria: Encina Influent (570-130682-1), (CCV 320-665899/15), (LCS 320-665270/2-A), (LCSD 320-665270/3-A) and (MB 320-665270/1-A). This retention time shift is due to normal and reasonable column maintenance and does not affect the instrument chromatography resolution, sensitivity, or identification of target analytes. System retention times have been updated for proper analyte identification.

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

Detection Summary

Client: Encina Wastewater Authority
Job ID: 570-130682-1
Project/Site: 2023 Annual Encina Influent Priority PollutantScan

Client Sample ID: Encina Influent
Lab Sample ID: 570-130682-1

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,4,7,8-HxCDD	2.5	J B q	49	0.25	pg/L	1		1613B	Total/NA
1,2,3,6,7,8-HxCDD	1.6	J	49	0.26	pg/L	1		1613B	Total/NA
1,2,3,7,8,9-HxCDD	1.5	J q	49	0.23	pg/L	1		1613B	Total/NA
1,2,3,4,7,8-HxCDF	1.9	J	49	0.13	pg/L	1		1613B	Total/NA
1,2,3,6,7,8-HxCDF	1.4	J	49	0.13	pg/L	1		1613B	Total/NA
1,2,3,7,8,9-HxCDF	0.99	J q	49	0.13	pg/L	1		1613B	Total/NA
2,3,4,6,7,8-HxCDF	1.4	J	49	0.12	pg/L	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDD	10	J B	49	0.19	pg/L	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	4.5	J B q	49	0.86	pg/L	1		1613B	Total/NA
1,2,3,4,7,8,9-HpCDF	1.6	J q	49	0.93	pg/L	1		1613B	Total/NA
OCDD	150	B	98	0.66	pg/L	1		1613B	Total/NA
OCDF	6.5	J q	98	0.24	pg/L	1		1613B	Total/NA
Total HxCDD	7.0	J B q	49	0.25	pg/L	1		1613B	Total/NA
Total HxCDF	5.7	J q	49	0.13	pg/L	1		1613B	Total/NA
Total HpCDD	23	J B	49	0.19	pg/L	1		1613B	Total/NA
Total HpCDF	8.4	J B q	49	0.89	pg/L	1		1613B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Encina Wastewater Authority
Job ID: 570-130682-1
Project/Site: 2023 Annual Encina Influent Priority PollutantScan

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS)

Client Sample ID: Encina Influent
Date Collected: 03/08/23 07:00
Date Received: 03/09/23 20:18

Lab Sample ID: 570-130682-1
Matrix: Water

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		9.8	0.29	pg/L		04/03/23 14:30	04/07/23 02:54	1
2,3,7,8-TCDF	ND		9.8	0.038	pg/L		04/03/23 14:30	04/07/23 02:54	1
1,2,3,7,8-PeCDD	ND		49	1.1	pg/L		04/03/23 14:30	04/07/23 02:54	1
1,2,3,7,8-PeCDF	ND		49	0.061	pg/L		04/03/23 14:30	04/07/23 02:54	1
2,3,4,7,8-PeCDF	ND		49	0.067	pg/L		04/03/23 14:30	04/07/23 02:54	1
1,2,3,4,7,8-HxCDD	**2.5**	**J B q**	49	0.25	pg/L		04/03/23 14:30	04/07/23 02:54	1
1,2,3,6,7,8-HxCDD	**1.6**	**J**	49	0.26	pg/L		04/03/23 14:30	04/07/23 02:54	1
1,2,3,7,8,9-HxCDD	**1.5**	**J q**	49	0.23	pg/L		04/03/23 14:30	04/07/23 02:54	1
1,2,3,4,7,8-HxCDF	**1.9**	**J**	49	0.13	pg/L		04/03/23 14:30	04/07/23 02:54	1
1,2,3,6,7,8-HxCDF	**1.4**	**J**	49	0.13	pg/L		04/03/23 14:30	04/07/23 02:54	1
1,2,3,7,8,9-HxCDF	**0.99**	**J q**	49	0.13	pg/L		04/03/23 14:30	04/07/23 02:54	1
2,3,4,6,7,8-HxCDF	**1.4**	**J**	49	0.12	pg/L		04/03/23 14:30	04/07/23 02:54	1
1,2,3,4,6,7,8-HpCDD	**10**	**J B**	49	0.19	pg/L		04/03/23 14:30	04/07/23 02:54	1
1,2,3,4,6,7,8-HpCDF	**4.5**	**J B q**	49	0.86	pg/L		04/03/23 14:30	04/07/23 02:54	1
1,2,3,4,7,8,9-HpCDF	**1.6**	**J q**	49	0.93	pg/L		04/03/23 14:30	04/07/23 02:54	1
OCDD	**150**	**B**	98	0.66	pg/L		04/03/23 14:30	04/07/23 02:54	1
OCDF	**6.5**	**J q**	98	0.24	pg/L		04/03/23 14:30	04/07/23 02:54	1
Total TCDD	ND		9.8	1.6	pg/L		04/03/23 14:30	04/07/23 02:54	1
Total TCDF	ND		9.8	0.63	pg/L		04/03/23 14:30	04/07/23 02:54	1
Total PeCDD	ND		49	5.7	pg/L		04/03/23 14:30	04/07/23 02:54	1
Total PeCDF	ND		49	0.54	pg/L		04/03/23 14:30	04/07/23 02:54	1
Total HxCDD	**7.0**	**J B q**	49	0.25	pg/L		04/03/23 14:30	04/07/23 02:54	1
Total HxCDF	**5.7**	**J q**	49	0.13	pg/L		04/03/23 14:30	04/07/23 02:54	1
Total HpCDD	**23**	**J B**	49	0.19	pg/L		04/03/23 14:30	04/07/23 02:54	1
Total HpCDF	**8.4**	**J B q**	49	0.89	pg/L		04/03/23 14:30	04/07/23 02:54	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*77*		*25 - 164*	*04/03/23 14:30*	*04/07/23 02:54*	*1*
13C-2,3,7,8-TCDF	*73*		*24 - 169*	*04/03/23 14:30*	*04/07/23 02:54*	*1*
13C-1,2,3,7,8-PeCDD	*82*		*25 - 181*	*04/03/23 14:30*	*04/07/23 02:54*	*1*
13C-1,2,3,7,8-PeCDF	*74*		*24 - 185*	*04/03/23 14:30*	*04/07/23 02:54*	*1*
13C-2,3,4,7,8-PeCDF	*72*		*21 - 178*	*04/03/23 14:30*	*04/07/23 02:54*	*1*
13C-1,2,3,4,7,8-HxCDD	*72*		*32 - 141*	*04/03/23 14:30*	*04/07/23 02:54*	*1*
13C-1,2,3,6,7,8-HxCDD	*75*		*28 - 130*	*04/03/23 14:30*	*04/07/23 02:54*	*1*
13C-1,2,3,4,7,8-HxCDF	*70*		*26 - 152*	*04/03/23 14:30*	*04/07/23 02:54*	*1*
13C-1,2,3,6,7,8-HxCDF	*71*		*26 - 123*	*04/03/23 14:30*	*04/07/23 02:54*	*1*
13C-1,2,3,7,8,9-HxCDF	*74*		*29 - 147*	*04/03/23 14:30*	*04/07/23 02:54*	*1*
13C-2,3,4,6,7,8-HxCDF	*73*		*28 - 136*	*04/03/23 14:30*	*04/07/23 02:54*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*76*		*23 - 140*	*04/03/23 14:30*	*04/07/23 02:54*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*65*		*28 - 143*	*04/03/23 14:30*	*04/07/23 02:54*	*1*
13C-1,2,3,4,7,8,9-HpCDF	*70*		*26 - 138*	*04/03/23 14:30*	*04/07/23 02:54*	*1*
13C-OCDD	*71*		*17 - 157*	*04/03/23 14:30*	*04/07/23 02:54*	*1*
13C-OCDF	*67*		*17 - 157*	*04/03/23 14:30*	*04/07/23 02:54*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
37Cl4-2,3,7,8-TCDD	*92*		*35 - 197*	*04/03/23 14:30*	*04/07/23 02:54*	*1*

Surrogate Summary

Client: Encina Wastewater Authority
Job ID: 570-130682-1
Project/Site: 2023 Annual Encina Influent Priority PollutantScan

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Matrix: Water
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
		37TCDD							
Lab Sample ID	Client Sample ID	(35-197)							
570-130682-1	Encina Influent	92							
MB 320-665270/1-A	Method Blank	91							

Surrogate Legend

37TCDD = 37Cl4-2,3,7,8-TCDD

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Matrix: Water
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
		37TCDD							
Lab Sample ID	Client Sample ID	(31-191)							
LCS 320-665270/2-A	Lab Control Sample	93							
LCSD 320-665270/3-A	Lab Control Sample Dup	94							

Surrogate Legend

37TCDD = 37Cl4-2,3,7,8-TCDD

Isotope Dilution Summary

Client: Encina Wastewater Authority
Job ID: 570-130682-1
Project/Site: 2023 Annual Encina Influent Priority PollutantScan

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		TCDD	TCDF	PeCDD	PeCDF	PeCF	HxCDD	HxDD	HxCDF
Lab Sample ID	Client Sample ID	(25-164)	(24-169)	(25-181)	(24-185)	(21-178)	(32-141)	(28-130)	(26-152)
570-130682-1	Encina Influent	77	73	82	74	72	72	75	70
MB 320-665270/1-A	Method Blank	79	73	80	73	74	74	76	70

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		HxDF	HxCF	13CHxCF	HpCDD	HpCDF	HpCDF2	OCDD	OCDF
Lab Sample ID	Client Sample ID	(26-123)	(29-147)	(28-136)	(23-140)	(28-143)	(26-138)	(17-157)	(17-157)
570-130682-1	Encina Influent	71	74	73	76	65	70	71	67
MB 320-665270/1-A	Method Blank	71	76	73	78	63	78	71	67

Surrogate Legend

TCDD = 13C-2,3,7,8-TCDD
TCDF = 13C-2,3,7,8-TCDF
PeCDD = 13C-1,2,3,7,8-PeCDD
PeCDF = 13C-1,2,3,7,8-PeCDF
PeCF = 13C-2,3,4,7,8-PeCDF
HxCDD = 13C-1,2,3,4,7,8-HxCDD
HxDD = 13C-1,2,3,6,7,8-HxCDD
HxCDF = 13C-1,2,3,4,7,8-HxCDF
HxDF = 13C-1,2,3,6,7,8-HxCDF
HxCF = 13C-1,2,3,7,8,9-HxCDF
13CHxCF = 13C-2,3,4,6,7,8-HxCDF
HpCDD = 13C-1,2,3,4,6,7,8-HpCDD
HpCDF = 13C-1,2,3,4,6,7,8-HpCDF
HpCDF2 = 13C-1,2,3,4,7,8,9-HpCDF
OCDD = 13C-OCDD
OCDF = 13C-OCDF

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		TCDD	TCDF	PeCDD	PeCDF	PeCF	HxCDD	HxDD	HxCDF
Lab Sample ID	Client Sample ID	(20-175)	(22-152)	(21-227)	(21-192)	(13-328)	(21-193)	(25-163)	(19-202)
LCS 320-665270/2-A	Lab Control Sample	70	63	77	68	68	72	76	70
LCSD 320-665270/3-A	Lab Control Sample Dup	77	73	79	73	72	72	77	72

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		HxDF	HxCF	13CHxCF	HpCDD	HpCDF	HpCDF2	OCDD	OCDF
Lab Sample ID	Client Sample ID	(21-159)	(17-205)	(22-176)	(26-166)	(21-158)	(20-186)	(13-199)	(13-199)
LCS 320-665270/2-A	Lab Control Sample	70	70	71	79	65	76	76	71
LCSD 320-665270/3-A	Lab Control Sample Dup	73	76	74	83	66	76	77	73

Surrogate Legend

TCDD = 13C-2,3,7,8-TCDD
TCDF = 13C-2,3,7,8-TCDF
PeCDD = 13C-1,2,3,7,8-PeCDD
PeCDF = 13C-1,2,3,7,8-PeCDF
PeCF = 13C-2,3,4,7,8-PeCDF
HxCDD = 13C-1,2,3,4,7,8-HxCDD
HxDD = 13C-1,2,3,6,7,8-HxCDD
HxCDF = 13C-1,2,3,4,7,8-HxCDF
HxDF = 13C-1,2,3,6,7,8-HxCDF

Isotope Dilution Summary

Client: Encina Wastewater Authority

Job ID: 570-130682-1

Project/Site: 2023 Annual Encina Influent Priority PollutantScan

HxCF = 13C-1,2,3,7,8,9-HxCDF

13CHxCF = 13C-2,3,4,6,7,8-HxCDF

HpCDD = 13C-1,2,3,4,6,7,8-HpCDD

HpCDF = 13C-1,2,3,4,6,7,8-HpCDF

HpCDF2 = 13C-1,2,3,4,7,8,9-HpCDF

OCDD = 13C-OCDD

OCDF = 13C-OCDF

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Lab Sample ID: MB 320-665270/1-A
Matrix: Water
Analysis Batch: 665899

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 665270

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		10	0.13	pg/L		04/03/23 14:30	04/07/23 00:29	1
2,3,7,8-TCDF	ND		10	0.018	pg/L		04/03/23 14:30	04/07/23 00:29	1
1,2,3,7,8-PeCDD	ND		50	0.045	pg/L		04/03/23 14:30	04/07/23 00:29	1
1,2,3,7,8-PeCDF	ND		50	0.014	pg/L		04/03/23 14:30	04/07/23 00:29	1
2,3,4,7,8-PeCDF	ND		50	0.015	pg/L		04/03/23 14:30	04/07/23 00:29	1
1,2,3,4,7,8-HxCDD	1.49	J q	50	0.025	pg/L		04/03/23 14:30	04/07/23 00:29	1
1,2,3,6,7,8-HxCDD	ND		50	0.026	pg/L		04/03/23 14:30	04/07/23 00:29	1
1,2,3,7,8,9-HxCDD	ND		50	0.023	pg/L		04/03/23 14:30	04/07/23 00:29	1
1,2,3,4,7,8-HxCDF	ND		50	0.017	pg/L		04/03/23 14:30	04/07/23 00:29	1
1,2,3,6,7,8-HxCDF	ND		50	0.018	pg/L		04/03/23 14:30	04/07/23 00:29	1
1,2,3,7,8,9-HxCDF	ND		50	0.018	pg/L		04/03/23 14:30	04/07/23 00:29	1
2,3,4,6,7,8-HxCDF	ND		50	0.016	pg/L		04/03/23 14:30	04/07/23 00:29	1
1,2,3,4,6,7,8-HpCDD	0.942	J q	50	0.031	pg/L		04/03/23 14:30	04/07/23 00:29	1
1,2,3,4,6,7,8-HpCDF	1.51	J	50	0.0087	pg/L		04/03/23 14:30	04/07/23 00:29	1
1,2,3,4,7,8,9-HpCDF	ND		50	0.0090	pg/L		04/03/23 14:30	04/07/23 00:29	1
OCDD	4.52	J	100	0.043	pg/L		04/03/23 14:30	04/07/23 00:29	1
OCDF	ND		100	0.080	pg/L		04/03/23 14:30	04/07/23 00:29	1
Total TCDD	6.32	J q	10	0.13	pg/L		04/03/23 14:30	04/07/23 00:29	1
Total TCDF	ND		10	0.018	pg/L		04/03/23 14:30	04/07/23 00:29	1
Total PeCDD	ND		50	0.045	pg/L		04/03/23 14:30	04/07/23 00:29	1
Total PeCDF	ND		50	0.014	pg/L		04/03/23 14:30	04/07/23 00:29	1
Total HxCDD	1.49	J q	50	0.023	pg/L		04/03/23 14:30	04/07/23 00:29	1
Total HxCDF	ND		50	0.016	pg/L		04/03/23 14:30	04/07/23 00:29	1
Total HpCDD	0.942	J q	50	0.031	pg/L		04/03/23 14:30	04/07/23 00:29	1
Total HpCDF	1.51	J	50	0.0087	pg/L		04/03/23 14:30	04/07/23 00:29	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*79*		*25 - 164*	*04/03/23 14:30*	*04/07/23 00:29*	*1*
13C-2,3,7,8-TCDF	*73*		*24 - 169*	*04/03/23 14:30*	*04/07/23 00:29*	*1*
13C-1,2,3,7,8-PeCDD	*80*		*25 - 181*	*04/03/23 14:30*	*04/07/23 00:29*	*1*
13C-1,2,3,7,8-PeCDF	*73*		*24 - 185*	*04/03/23 14:30*	*04/07/23 00:29*	*1*
13C-2,3,4,7,8-PeCDF	*74*		*21 - 178*	*04/03/23 14:30*	*04/07/23 00:29*	*1*
13C-1,2,3,4,7,8-HxCDD	*74*		*32 - 141*	*04/03/23 14:30*	*04/07/23 00:29*	*1*
13C-1,2,3,6,7,8-HxCDD	*76*		*28 - 130*	*04/03/23 14:30*	*04/07/23 00:29*	*1*
13C-1,2,3,4,7,8-HxCDF	*70*		*26 - 152*	*04/03/23 14:30*	*04/07/23 00:29*	*1*
13C-1,2,3,6,7,8-HxCDF	*71*		*26 - 123*	*04/03/23 14:30*	*04/07/23 00:29*	*1*
13C-1,2,3,7,8,9-HxCDF	*76*		*29 - 147*	*04/03/23 14:30*	*04/07/23 00:29*	*1*
13C-2,3,4,6,7,8-HxCDF	*73*		*28 - 136*	*04/03/23 14:30*	*04/07/23 00:29*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*78*		*23 - 140*	*04/03/23 14:30*	*04/07/23 00:29*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*63*		*28 - 143*	*04/03/23 14:30*	*04/07/23 00:29*	*1*
13C-1,2,3,4,7,8,9-HpCDF	*78*		*26 - 138*	*04/03/23 14:30*	*04/07/23 00:29*	*1*
13C-OCDD	*71*		*17 - 157*	*04/03/23 14:30*	*04/07/23 00:29*	*1*
13C-OCDF	*67*		*17 - 157*	*04/03/23 14:30*	*04/07/23 00:29*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
37Cl4-2,3,7,8-TCDD	*91*		*35 - 197*	*04/03/23 14:30*	*04/07/23 00:29*	*1*

Method: 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 320-665270/2-A
Matrix: Water
Analysis Batch: 665899

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 665270

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
2,3,7,8-TCDD			200	175		pg/L		87	67 - 158		
2,3,7,8-TCDF			200	177		pg/L		89	75 - 158		
1,2,3,7,8-PeCDD			1000	815		pg/L		82	70 - 142		
1,2,3,7,8-PeCDF			1000	802		pg/L		80	80 - 134		
2,3,4,7,8-PeCDF			1000	805		pg/L		81	68 - 160		
1,2,3,4,7,8-HxCDD			1000	807		pg/L		81	70 - 164		
1,2,3,6,7,8-HxCDD			1000	822		pg/L		82	76 - 134		
1,2,3,7,8,9-HxCDD			1000	816		pg/L		82	64 - 162		
1,2,3,4,7,8-HxCDF			1000	807		pg/L		81	72 - 134		
1,2,3,6,7,8-HxCDF			1000	844		pg/L		84	84 - 130		
1,2,3,7,8,9-HxCDF			1000	798		pg/L		80	78 - 130		
2,3,4,6,7,8-HxCDF			1000	797		pg/L		80	70 - 156		
1,2,3,4,6,7,8-HpCDD			1000	846		pg/L		85	70 - 140		
1,2,3,4,6,7,8-HpCDF			1000	837		pg/L		84	82 - 122		
1,2,3,4,7,8,9-HpCDF			1000	792		pg/L		79	78 - 138		
OCDD			2000	1650		pg/L		82	78 - 144		
OCDF			2000	1660		pg/L		83	63 - 170		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C-2,3,7,8-TCDD	*70*		*20 - 175*
13C-2,3,7,8-TCDF	*63*		*22 - 152*
13C-1,2,3,7,8-PeCDD	*77*		*21 - 227*
13C-1,2,3,7,8-PeCDF	*68*		*21 - 192*
13C-2,3,4,7,8-PeCDF	*68*		*13 - 328*
13C-1,2,3,4,7,8-HxCDD	*72*		*21 - 193*
13C-1,2,3,6,7,8-HxCDD	*76*		*25 - 163*
13C-1,2,3,4,7,8-HxCDF	*70*		*19 - 202*
13C-1,2,3,6,7,8-HxCDF	*70*		*21 - 159*
13C-1,2,3,7,8,9-HxCDF	*70*		*17 - 205*
13C-2,3,4,6,7,8-HxCDF	*71*		*22 - 176*
13C-1,2,3,4,6,7,8-HpCDD	*79*		*26 - 166*
13C-1,2,3,4,6,7,8-HpCDF	*65*		*21 - 158*
13C-1,2,3,4,7,8,9-HpCDF	*76*		*20 - 186*
13C-OCDD	*76*		*13 - 199*
13C-OCDF	*71*		*13 - 199*

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
37Cl4-2,3,7,8-TCDD	*93*		*31 - 191*

Lab Sample ID: LCSD 320-665270/3-A
Matrix: Water
Analysis Batch: 665899

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 665270

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,3,7,8-TCDD			200	180		pg/L		90	67 - 158	3	50
2,3,7,8-TCDF			200	178		pg/L		89	75 - 158	0	50
1,2,3,7,8-PeCDD			1000	905		pg/L		91	70 - 142	10	50
1,2,3,7,8-PeCDF			1000	867		pg/L		87	80 - 134	8	50

Method: 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: LCSD 320-665270/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 665899
Prep Batch: 665270

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,3,4,7,8-PeCDF			1000	872		pg/L		87	68 - 160	8	50
1,2,3,4,7,8-HxCDD			1000	903		pg/L		90	70 - 164	11	50
1,2,3,6,7,8-HxCDD			1000	911		pg/L		91	76 - 134	10	50
1,2,3,7,8,9-HxCDD			1000	919		pg/L		92	64 - 162	12	50
1,2,3,4,7,8-HxCDF			1000	875		pg/L		88	72 - 134	8	50
1,2,3,6,7,8-HxCDF			1000	870		pg/L		87	84 - 130	3	50
1,2,3,7,8,9-HxCDF			1000	853		pg/L		85	78 - 130	7	50
2,3,4,6,7,8-HxCDF			1000	868		pg/L		87	70 - 156	9	50
1,2,3,4,6,7,8-HpCDD			1000	836		pg/L		84	70 - 140	1	50
1,2,3,4,6,7,8-HpCDF			1000	937		pg/L		94	82 - 122	11	50
1,2,3,4,7,8,9-HpCDF			1000	894		pg/L		89	78 - 138	12	50
OCDD			2000	1860		pg/L		93	78 - 144	12	50
OCDF			2000	1870		pg/L		94	63 - 170	12	50

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C-2,3,7,8-TCDD	*77*		*20 - 175*
13C-2,3,7,8-TCDF	*73*		*22 - 152*
13C-1,2,3,7,8-PeCDD	*79*		*21 - 227*
13C-1,2,3,7,8-PeCDF	*73*		*21 - 192*
13C-2,3,4,7,8-PeCDF	*72*		*13 - 328*
13C-1,2,3,4,7,8-HxCDD	*72*		*21 - 193*
13C-1,2,3,6,7,8-HxCDD	*77*		*25 - 163*
13C-1,2,3,4,7,8-HxCDF	*72*		*19 - 202*
13C-1,2,3,6,7,8-HxCDF	*73*		*21 - 159*
13C-1,2,3,7,8,9-HxCDF	*76*		*17 - 205*
13C-2,3,4,6,7,8-HxCDF	*74*		*22 - 176*
13C-1,2,3,4,6,7,8-HpCDD	*83*		*26 - 166*
13C-1,2,3,4,6,7,8-HpCDF	*66*		*21 - 158*
13C-1,2,3,4,7,8,9-HpCDF	*76*		*20 - 186*
13C-OCDD	*77*		*13 - 199*
13C-OCDF	*73*		*13 - 199*

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
37Cl4-2,3,7,8-TCDD	*94*		*31 - 191*

Client: Encina Wastewater Authority
Job ID: 570-130682-1
Project/Site: 2023 Annual Encina Influent Priority PollutantScan

Specialty Organics

Prep Batch: 665270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-130682-1	Encina Influent	Total/NA	Water	1613B	
MB 320-665270/1-A	Method Blank	Total/NA	Water	1613B	
LCS 320-665270/2-A	Lab Control Sample	Total/NA	Water	1613B	
LCSD 320-665270/3-A	Lab Control Sample Dup	Total/NA	Water	1613B	

Analysis Batch: 665899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-130682-1	Encina Influent	Total/NA	Water	1613B	665270
MB 320-665270/1-A	Method Blank	Total/NA	Water	1613B	665270
LCS 320-665270/2-A	Lab Control Sample	Total/NA	Water	1613B	665270
LCSD 320-665270/3-A	Lab Control Sample Dup	Total/NA	Water	1613B	665270

Lab Chronicle

Client: Encina Wastewater Authority
Job ID: 570-130682-1
Project/Site: 2023 Annual Encina Influent Priority PollutantScan

Client Sample ID: Encina Influent
Lab Sample ID: 570-130682-1

Date Collected: 03/08/23 07:00
Matrix: Water

Date Received: 03/09/23 20:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1613B			1016.3 mL	20.0 uL	665270	04/03/23 14:30	CGB	EET SAC
Total/NA	Analysis	1613B		1	1 Sample	1 Sample	665899	04/07/23 02:54	GRB	EET SAC
	Instrument ID: DFS 1									

Laboratory References:

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: Encina Wastewater Authority
Job ID: 570-130682-1
Project/Site: 2023 Annual Encina Influent Priority PollutantScan

Laboratory: Eurofins Sacramento

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	17-020	02-20-24
ANAB	Dept. of Defense ELAP	L2468	01-20-24
ANAB	Dept. of Energy	L2468.01	01-20-24
ANAB	ISO/IEC 17025	L2468	01-20-24
Arizona	State	AZ0708	08-11-23
Arkansas DEQ	State	88-0691	06-17-23
California	State	2897	01-22-24
Colorado	State	CA0004	08-31-23
Florida	NELAP	E87570	06-30-23
Georgia	State	4040	01-29-24
Hawaii	State	<cert No.>	01-29-24
Illinois	NELAP	200060	03-17-24
Kansas	NELAP	E-10375	10-31-23
Louisiana	NELAP	01944	06-30-23
Louisiana (All)	NELAP	01944	06-30-23
Maine	State	CA00004	04-14-24
Michigan	State	9947	01-31-23 *
Nevada	State	CA00044	07-31-23
New Hampshire	NELAP	2997	04-18-23
New Jersey	NELAP	CA005	06-30-23
New York	NELAP	11666	04-01-24
Ohio	State	41252	01-29-24
Oregon	NELAP	4040	01-29-24
Texas	NELAP	T104704399-19-13	05-31-23
US Fish & Wildlife	US Federal Programs	58448	04-30-23
USDA	US Federal Programs	P330-18-00239	02-28-26
Utah	NELAP	CA000442021-12	02-28-23 *
Virginia	NELAP	460278	03-14-24
Washington	State	C581	05-05-23
West Virginia (DW)	State	9930C	12-31-23
Wisconsin	State	998204680	08-31-23
Wyoming	State Program	8TMS-L	01-28-19 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Encina Wastewater Authority
Job ID: 570-130682-1
Project/Site: 2023 Annual Encina Influent Priority PollutantScan

Method	Method Description	Protocol	Laboratory
1613B	Dioxins and Furans (HRGC/HRMS)	EPA	EET SAC
1613B	Separatory Funnel (L/L) Extraction with Soxhlet Extraction of Dioxin and Furans	EPA	EET SAC

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: Encina Wastewater Authority
Project/Site: 2023 Annual Encina Influent Priority PollutantScan

Job ID: 570-130682-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-130682-1	Encina Influent	Water	03/08/23 07:00	03/09/23 20:18

Eurofins Calscience Irvine
17461 Derian Ave Suite 100
Irvine, CA 92614-5817
Phone (949) 261-1022 Fax (949) 260-3297

Chain of Custody Record

eurofins | Environment Testing

Loc: 570
130682

570-130682 Chain of Custody

Client Information	Sampler: JC	Lab PM: Janice Hsu	COC No:
Client Contact: **Rachael Morgan**	Phone: **760.268.8801**	E-Mail: Janice.Hsu@Eurofinset.com	Page: Page 1 of 1
Company: **Encina Wastewater Authority**		**Analysis Requested**	Job #:
Address: **6200 Avenida Encinas**	Due Date Requested:		Preservation Codes:
City: **Carlsbad**	TAT Requested (days): **10 Working Days**		A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: **California, 92011**			
Phone: **760-268-8801**	PO #: 20230040		Other:
Email: **rachael@encinajpa.com**	WO #:		
Project Name: **2023 Annual Encina Influent Priority Pollutant Scan**	Project #:		

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	MS/MSD (Yes or No)	EPA 8280A Dioxin - Full Screen	Total Number of containers	Special Instructions/Note:
Encina Influent	3/7-8/23	0700-0700	C	WW			X	1	I

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown* ☐ *Radiological*

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For _____ Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	3/9/23 @ 1450		William Rivera	3/9/23 1900	EC
Relinquished by: William Rivera	Date/Time: 3/9/23 2018	Company EC	Received by: [signature]	Date/Time: 3/9/23 2045	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

2.3/2.2 SC12

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin, CA 92780
Phone: 714-895-5494

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler:	Lab PM: Hsu, Janice	Carrier Tracking No(s):	COC No: 570-210890.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Janice.Hsu@et.eurofinsus.com	State of Origin: California	Page: Page 1 of 1
Company: Eurofins Environment Testing Northern Ca		Accreditations Required (See note): State - California		Job #: 570-130682-1
Address: 880 Riverside Parkway, ,	Due Date Requested: 3/31/2023			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #:			
Email:	WO #:			
Project Name: 2023 Annual Encina Influent Priority PollutantScan	Project #: 57011688			
Site: MBR Pilot Project	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1613B/1613B_Sox_Sep_P Full List w/ Totals	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
Encina Influent (570-130682-1)	3/8/23	07:00 Pacific		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Calscience places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Calscience laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Calscience attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Calscience.

Possible Hazard Identification	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	03/16/23 12:50	EEC	[signature]	3-17-23 0920	EEBer
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ▲ Yes ▵ No	Custody Seal No.: Seals	Cooler Temperature(s) °C and Other Remarks: 4.7

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Encina Wastewater Authority

Job Number: 570-130682-1

Login Number: 130682

List Number: 1

Creator: Hsu, Janice

List Source: Eurofins Calscience

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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.	True	
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	

Login Sample Receipt Checklist

Client: Encina Wastewater Authority

Job Number: 570-130682-1

Login Number: 130682
List Number: 2
Creator: Oropeza, Salvador

List Source: Eurofins Sacramento
List Creation: 03/17/23 03:17 PM

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	Seals
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	4.7C
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?	False	Received project as a subcontract.
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	

CHAIN OF CUSTODY RECORD

Weck Laboratories, Inc.
Analytical Laboratory Services - Since 1964

14859 East Clark Avenue : Industry : CA 91745
Tel 626-336-2139 ♦ www.wecklabs.com

Work Order # 3A31022
Page 1 Of 1

CLIENT NAME:	PROJECT:
Encina Wastewater Authority	2023 Annual Encina Influent Priority Pollutant Scan
ADDRESS: 6200 Avenida Encinas, Carlsbad, CA 92011	PHONE: 760.268.8801 rachael@encinajpa.com
PROJECT MANAGER: Rachael Morgan	SAMPLER: JC

SPECIAL HANDLING

- ☐ Same Day Rush 150%
- ☐ 24 Hour Rush 100%
- ☐ 48-72 Hour Rush 75%
- ☐ 4 - 5 Day Rush 30%
- ☐ Rush Extractions 50%
- ☑ 10 - 15 Business Days
- ☐ QA/QC Data Package

Charges will apply for weekends/holidays

Method of Shipment:

ID# (For lab Use Only)	DATE SAMPLED	TIME SAMPLED	SMPL TYPE	SAMPLE IDENTIFICATION/SITE LOCATION	# OF CONT.	EPA 8280A Dioxin Full Screen	EPA 608.3 Pesticides & PCB's	EPA 625	EPA 624 Acrolein & Acrylonitrile						COMMENTS
	1/29-30/23	1030	WW	Encina Influent	2	X									1 L AMBER GLASS
	1/29-30/23	1030	WW	Encina Influent	2		X								1 L AMBER GLASS
	1/29-30/23	1030	WW	Encina Influent	2			X							1 L AMBER GLASS
	1/29-30/23	1030	WW	Encina Influent	3				X						40ml VOA Unpreserved

Dioxin cancelled bc hold time missed due to shipping issue.
-kgt 3/2/23

RELINQUISHED BY	DATE / TIME	RECEIVED BY
[signature]	1/30/23 1200	
[signature]	1/31/23 9:36	[signature]
		[signature]

SAMPLE CONDITION:

Actual Temperature: 1.1

Received On Ice	(Y) / N	
Preserved	(Y) / N	
Evidence Seals Present	Y / (N)	
Container Attacked	Y / (N)	
Preserved at Lab	Y / (N)	

D279

SAMPLE TYPE CODE:

- AQ=Aqueous
- NA= Non Aqueous
- SL = Sludge
- DW = Drinking Water
- WW = Waste Water
- RW = Rain Water
- GW = Ground Water
- SO = Soil
- SW = Solid Waste
- OL = Oil
- OT = Other Matrix

PRESCHEDULED RUSH ANALYSES WILL TAKE PRIORITY OVER UNSCHEDULED RUSH REQUESTS

Client agrees to Terms & Conditions at: www.wecklabs.com

SPECIAL REQUIREMENTS / BILLING INFORMATION

COC version 04132016

WECK LABORATORIES, INC.

Sample Receipt Checklist

Weck WKO: 3A31022
WKO Logged by: Algabriel Holanda
Samples Checked by: ATH
Date/Time Received: 01/31/23 @09:36
# of Samples: 1
Delivered by: Fedex

	Task	Yes	No	N/A	Comments
COC	COC present at receipt?	☒	☐		
	COC properly completed?	☒	☐		
	COC matches sample labels?	☒	☐		
	Project Manager notified?	☐	☐	☒	
Receipt Information	Sample Temperature	1.1°C			
	Samples received on ice?	☒	☐		
	Ice Type (Blue/Wet)	Wet			
	All samples intact?	☒	☐		
	Samples in proper containers?	☒	☐		
	Sufficient sample volume?	☒	☐		
	Received within holding time?	☒	☐		
	Project Manager notified?	☐	☐	☒	
Sample Preservation Verification?	Sample labels checked for correct preservation?	☒	☐	☐	
	VOC Headspace: (No) none, If Yes (See comment) 524.2, 524.3, 624.1, 8260, 1666 P/T, LUFT	☐	☒	☐	☐ <6mm/Pea size?
	pH verified upon receipt? Metals <2; H2SO4 pres tests <2; 522<4; TOC <2; 508.1, 525.2<2; 6710B<2; 608.3 5-9	☒	☐	☐	pH paper Lot# 3011190
	Free Chlorine Tested <0.1 (Organics Analyses)	☒	☐	☐	Cl Test Strip Lot# 061221E
	O&G pH <2 verified?	☐	☐	☐	pH paper Lot#
	pH adjusted for O&G	☐	☐	☐	pH Reading: Acid Lot# Amt added:
	Project Manager notified?	☐	☐	☒	

PM Comments

Sample Receipt Checklist Prepared by:

Signature: _____ Date: 01/31/2023

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ANALYTICAL REPORT

PREPARED FOR

Attn: Rachael Morgan
Encina Wastewater Authority
6200 Avenida Encinas
Carlsbad, California 92011

Generated 2/9/2023 9:43:50 AM

JOB DESCRIPTION

2023 Annual Encina Influent PriorityPollutant Scan

JOB NUMBER

570-126351-1

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin CA 92780

See page two for job notes and contact information.

Job Notes

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The data in the report relate to the field sample(s) as received by the laboratory and associated QC. All results have been reviewed and have been found to be compliant with laboratory and accreditation requirements, with the exception of the noted deviation(s). For questions, please contact the Project Manager.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Calscience Project Manager.

Authorization

Generated
2/9/2023 9:43:50 AM

Authorized for release by
Janice Hsu, Project Manager I
Janice.Hsu@et.eurofinsus.com
(657)210-6359

Table of Contents

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
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

Case Narrative

Client: Encina Wastewater Authority
Job ID: 570-126351-1
Project/Site: 2023 Annual Encina Influent PriorityPollutant Scan

Job ID: 570-126351-1

Laboratory: Eurofins Calscience

Narrative

Job Narrative
570-126351-1

Comments
No additional comments.

Receipt
The sample was received on 2/2/2023 8:00 PM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.3º C.

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

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

Detection Summary

Client: Encina Wastewater Authority
Job ID: 570-126351-1
Project/Site: 2023 Annual Encina Influent PriorityPollutant Scan

Client Sample ID: Encina Influent
Lab Sample ID: 570-126351-1

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Calscience

Client: Encina Wastewater Authority
Job ID: 570-126351-1
Project/Site: 2023 Annual Encina Influent PriorityPollutant Scan

Method: EPA 245.1 - Mercury (CVAA)

Client Sample ID: Encina Influent
Lab Sample ID: 570-126351-1
Date Collected: 01/30/23 10:30
Matrix: Water
Date Received: 02/02/23 20:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		02/07/23 21:44	02/08/23 14:03	1

Client: Encina Wastewater Authority
Job ID: 570-126351-1
Project/Site: 2023 Annual Encina Influent PriorityPollutant Scan

General Chemistry

Client Sample ID: Encina Influent
Date Collected: 01/30/23 10:30
Date Received: 02/02/23 20:00

Lab Sample ID: 570-126351-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (EPA Kelada 01)	ND		5.0	2.5	ug/L			02/07/23 15:52	1

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 570-301984/1-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 302238
Prep Batch: 301984

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		02/07/23 21:44	02/08/23 13:31	1

Lab Sample ID: LCS 570-301984/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 302238
Prep Batch: 301984

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00800	0.00741		mg/L		93	85 - 115

Lab Sample ID: LCSD 570-301984/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 302238
Prep Batch: 301984

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.00800	0.00752		mg/L		94	85 - 115	2	10

Lab Sample ID: 570-126018-K-1-C MS
Client Sample ID: Matrix Spike
Matrix: Water
Prep Type: Dissolved
Analysis Batch: 302238
Prep Batch: 301984

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		0.00800	0.00760		mg/L		95	85 - 115

Lab Sample ID: 570-126018-K-1-D MSD
Client Sample ID: Matrix Spike Duplicate
Matrix: Water
Prep Type: Dissolved
Analysis Batch: 302238
Prep Batch: 301984

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.00800	0.00763		mg/L		95	85 - 115	0	10

Method: Kelada 01 - Cyanide, Total, Acid Dissociable and Thiocyanate

Lab Sample ID: MB 570-301948/11
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 301948

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		5.0	2.5	ug/L			02/07/23 15:28	1

Lab Sample ID: LCS 570-301948/12
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 301948

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	250	251		ug/L		101	90 - 110

Method: Kelada 01 - Cyanide, Total, Acid Dissociable and Thiocyanate (Continued)

Lab Sample ID: LCSD 570-301948/13
Matrix: Water
Analysis Batch: 301948

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total			250	237		ug/L		95	90 - 110	6	20

Lab Sample ID: MRL 570-301948/10
Matrix: Water
Analysis Batch: 301948

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			5.00	6.21		ug/L		124	50 - 150		

Lab Sample ID: 570-126351-1 MS
Matrix: Water
Analysis Batch: 301948

Client Sample ID: Encina Influent
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total	ND		250	294		ug/L		118	70 - 130		

Lab Sample ID: 570-126351-1 MSD
Matrix: Water
Analysis Batch: 301948

Client Sample ID: Encina Influent
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	ND		250	319		ug/L		128	70 - 130	8	30

QC Association Summary

Client: Encina Wastewater Authority
Job ID: 570-126351-1
Project/Site: 2023 Annual Encina Influent PriorityPollutant Scan

Metals

Prep Batch: 301984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-126351-1	Encina Influent	Total/NA	Water	245.1	
MB 570-301984/1-A	Method Blank	Total/NA	Water	245.1	
LCS 570-301984/2-A	Lab Control Sample	Total/NA	Water	245.1	
LCSD 570-301984/3-A	Lab Control Sample Dup	Total/NA	Water	245.1	
570-126018-K-1-C MS	Matrix Spike	Dissolved	Water	245.1	
570-126018-K-1-D MSD	Matrix Spike Duplicate	Dissolved	Water	245.1	

Analysis Batch: 302238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-126351-1	Encina Influent	Total/NA	Water	245.1	301984
MB 570-301984/1-A	Method Blank	Total/NA	Water	245.1	301984
LCS 570-301984/2-A	Lab Control Sample	Total/NA	Water	245.1	301984
LCSD 570-301984/3-A	Lab Control Sample Dup	Total/NA	Water	245.1	301984
570-126018-K-1-C MS	Matrix Spike	Dissolved	Water	245.1	301984
570-126018-K-1-D MSD	Matrix Spike Duplicate	Dissolved	Water	245.1	301984

General Chemistry

Analysis Batch: 301948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-126351-1	Encina Influent	Total/NA	Water	Kelada 01	
MB 570-301948/11	Method Blank	Total/NA	Water	Kelada 01	
LCS 570-301948/12	Lab Control Sample	Total/NA	Water	Kelada 01	
LCSD 570-301948/13	Lab Control Sample Dup	Total/NA	Water	Kelada 01	
MRL 570-301948/10	Lab Control Sample	Total/NA	Water	Kelada 01	
570-126351-1 MS	Encina Influent	Total/NA	Water	Kelada 01	
570-126351-1 MSD	Encina Influent	Total/NA	Water	Kelada 01	

Lab Chronicle

Client: Encina Wastewater Authority
Job ID: 570-126351-1
Project/Site: 2023 Annual Encina Influent PriorityPollutant Scan

Client Sample ID: Encina Influent
Lab Sample ID: 570-126351-1
Date Collected: 01/30/23 10:30
Matrix: Water
Date Received: 02/02/23 20:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	245.1			25 mL	50 mL	301984	02/07/23 21:44	CS5Z	EET CAL 4
Total/NA	Analysis	245.1		1			302238	02/08/23 14:03	C0YH	EET CAL 4
	Instrument ID: HG8									
Total/NA	Analysis	Kelada 01		1	8 mL	8 mL	301948	02/07/23 15:52	GG0B	EET CAL 4
	Instrument ID: LACHAT01									

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: Encina Wastewater Authority
Job ID: 570-126351-1
Project/Site: 2023 Annual Encina Influent PriorityPollutant Scan

Laboratory: Eurofins Calscience

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-23

Method Summary

Client: Encina Wastewater Authority
Job ID: 570-126351-1
Project/Site: 2023 Annual Encina Influent PriorityPollutant Scan

Method	Method Description	Protocol	Laboratory
245.1	Mercury (CVAA)	EPA	EET CAL 4
Kelada 01	Cyanide, Total, Acid Dissociable and Thiocyanate	EPA	EET CAL 4
245.1	Preparation, Mercury	EPA	EET CAL 4

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

Client: Encina Wastewater Authority
Project/Site: 2023 Annual Encina Influent PriorityPollutant Scan

Job ID: 570-126351-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-126351-1	Encina Influent	Water	01/30/23 10:30	02/02/23 20:00

Eurofins Calscience Irvine
17461 Derian Ave Suite 100
Irvine, CA 92614-5817
Phone (949) 261-1022 Fax (949) 260-3297

Chain of Custody Record

Loc: 570
126351

eurofins Environment Testing America

Client Information	Sampler: JC	Lab PM: Janice Hsu	Carrier Tracking No(s):	COC No:
Client Contact: Rachael Morgan	Phone: 760.268.8801	E-Mail: Janice.Hsu@Eurofinset.com		Page: Page 1 of 1
Company: Encina Wastewater Authority				Job #:
Address: 6200 Avenida Encinas	Due Date Requested:			
City: Carlsbad	TAT Requested (days): 10 Working Days			
State, Zip: California, 92011				
Phone: 760-268-8801	PO #: 20230040			
Email: rachael@encinajpa.com	WO #:			
Project Name: 2023 Annual Encina Influent Priority Pollutant Scan	Project #:			

Analysis Requested

Preservation Codes:

A HCL	M - Hexane
B NaOH	N - None
C Zn Acetate	O - AsNaO2
D - Nitric Acid	P Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I Ice	U - Acetone
J - DI Water	V MCAA
K EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Mercury 245.1	Total Cyanide SM 4500 CN-E	Total Number of containers	Special Instructions/Note
Encina Influent	1/29-30/23	1030	C	WW			X		1	D
Encina Influent	~~1/29~~ 1/30/23	1030	C	WW				X	1	B
	1/29-30/23									

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III IV, Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	2/2/23@1500	EWA	William Rivera	2/2/23 1830	EC
2	William Rivera	2/2/23 2000	EC	[signature]	2/2/23 2000	EC
3						

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.

Cooler Temperature(s) °C and Other Remarks: 1.4/1.3 5C12

Ver: 08/04/2016

Login Sample Receipt Checklist

Client: Encina Wastewater Authority

Job Number: 570-126351-1

Login Number: 126351

List Source: Eurofins Calscience

List Number: 1

Creator: Hsu, Janice

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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.	True	
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	

SAMPLE RESULTS REPORT

Report Date : 11/1/2023

REPORT TO	ELAP Certification No. 1441 230313005

Sample ID	Sample Point	Analyte Name	Result	Units	Method Reference
AB47162	Encina Influent PRIORITY POLLUTANTS			Collected: 01/30/2023	Time: 10:30
		Zinc by ICP	0.208	mg/L	EPA 200.7
		Thallium by ICP	<0.020	mg/L	EPA 200.7
		Silver by ICP	<0.026	mg/L	EPA 200.7
		Selenium by ICP	<0.024	mg/L	EPA 200.7
		Nickel by ICP	<0.018	mg/L	EPA 200.7
		Molybdenum by ICP	<0.018	mg/L	EPA 200.7
		Mercury	<0.00020	mg/L	EPA 245.1
		Lead by ICP	<0.020	mg/L	EPA 200.7
		Cyanide, Total	<0.005	mg/L	SM4500CN-E
		Copper by ICP	0.114	mg/L	EPA 200.7
		Chromium by ICP	<0.018	mg/L	EPA 200.7
		Cadmium by ICP	<0.018	mg/L	EPA 200.7
		Beryllium by ICP	<0.018	mg/L	EPA 200.7
		Arsenic by ICP	<0.016	mg/L	EPA 200.7
		Antimony by ICP	<0.026	mg/L	EPA 200.7

Certified By: Rachael Morgan **Date:** 11/1/23

Rachael Morgan, Laboratory Manager

Friday, November 17, 2023

Rachael Morgan
Encina Wastewater Authority La
6200 Avenida Encinas
Carlsbad, CA 92011

Re	Lab Order:	Y110109	Collected By:	ARTURO S.
	Project ID:	MEADOWLARK FAILSAFE EFF 2023	PO/Contract#:	

Dear Rachael Morgan:

Enclosed are the analytical results for sample(s) received by the laboratory on Thursday, November 02, 2023. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Enclosures

Project Manager: Sandralyn Luna

1885 North Kelly Road • Napa, California 94558
(707) 258-4000 • Fax (707) 226-1001 • e-mail: info@caltestlabs.com

SAMPLE SUMMARY

Lab Order: Y110109
Project ID: MEADOWLARK FAILSAFE EFF 2023

Lab ID	Sample ID	Matrix	Date Collected	Date Received
Y110109001	MEADOWLARK FAILSAFE EFF	Water (ML)	11/01/23 07:00	11/02/23 09:15

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NARRATIVE

Lab Order: Y110109
Project ID: MEADOWLARK FAILSAFE EFF 2023

General Qualifiers and Notes

Caltest authorizes this report to be reproduced only in its entirety. Results are specific to the sample(s) as submitted and only to the parameter(s) reported.

Caltest certifies that test results meet California Environmental Laboratory Accreditation Program (CA-ELAP) and/or National Environmental Laboratory Accreditation Program (NELAP) requirements, as applicable, unless stated otherwise.

All analyses performed by EPA Methods or Standard Methods.

Dilution Factors (DF) reported greater than '1' have been used to adjust the result, Reporting Limit (RL), and Method Detection Limit (MDL).

All Solid, sludge, and/or biosolids data is reported in Wet Weight, unless otherwise specified.

Analyses performed at Caltest for pH, Dissolved Oxygen, and Chlorine Residual, as well as laboratory filtrations for Dissolved Metals (excluding Mercury) are not performed within the 15 minute holding time as specified by 40CFR 136.3 table II.

Results Qualifiers: Report fields may contain codes and non-numeric data correlating to one or more of the following definitions:

ND - indicates analytical result has not been detected at or above the Reporting Limit (RL), or at above the Method Detection Limit (MDL) when it is included on the report and is not otherwise noted.

RL - Reporting Limit is the quantitation limit at which the laboratory is able to detect an analyte. An analyte not detected at or above the RL is reported as ND unless otherwise noted or qualified. For analyses pertaining to the State Implementation Plan of the California Toxics Rule, the Caltest Reporting Limit (RL) is equivalent to the Minimum Level (ML). A standard is always run at or below the ML. Where Reporting Limits are elevated due to dilution, the ML calibration criteria has been met.

MDL - The Method Detection Limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results.

J - reflects estimated analytical result value detected below the Reporting Limit (RL) and above the Method Detection Limit (MDL). The 'J' flag is equivalent to the DNQ Estimated Concentration flag.

B - indicates the analyte has been detected in the blank associated with the sample.

SS - compound is a Surrogate Spike used per laboratory quality assurance manual.

NOTE: This document represents a complete Analytical Report for the samples referenced herein and should be retained as a permanent record thereof.

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ANALYTICAL RESULTS

Lab Order: Y110109
Project ID: MEADOWLARK FAILSAFE EFF 2023

Lab ID Y110109001 **Date Collected:** 11/01/23 07:00 **Matrix:** Water (ML)
Sample ID MEADOWLARK FAILSAFE EFF **Date Received:** 11/02/23 09:15

Parameter	Result	Units	RL	MDL	DF	Prepared	Batch	Analyzed	Batch	Qual
Chlorinated Pesticides & PCBs Analysis			**Prep Method:**	EPA 625.1				**Prepared By:**	JC	
			Analytical Method:	EPA 625.1				**Analyzed By:**	MDT	
Aldrin	ND	ug/L	0.0050	0.0014	1	11/07/23 12:53	SPR 1427	11/14/23 21:08	SMS 1363	
alpha-BHC	ND	ug/L	0.010	0.0026	1	11/07/23 12:53	SPR 1427	11/14/23 21:08	SMS 1363	
beta-BHC	ND	ug/L	0.0050	0.0029	1	11/07/23 12:53	SPR 1427	11/14/23 21:08	SMS 1363	
delta-BHC	ND	ug/L	0.0050	0.0035	1	11/07/23 12:53	SPR 1427	11/14/23 21:08	SMS 1363	
gamma-BHC (Lindane)	ND	ug/L	0.010	0.0022	1	11/07/23 12:53	SPR 1427	11/14/23 21:08	SMS 1363	
Chlordane	ND	ug/L	0.010	0.0034	1	11/07/23 12:53	SPR 1427	11/14/23 21:08	SMS 1363	
4,4'-DDD	ND	ug/L	0.010	0.0021	1	11/07/23 12:53	SPR 1427	11/14/23 21:08	SMS 1363	
4,4'-DDE	ND	ug/L	0.010	0.0009	1	11/07/23 12:53	SPR 1427	11/14/23 21:08	SMS 1363	
4,4'-DDT	ND	ug/L	0.010	0.0038	1	11/07/23 12:53	SPR 1427	11/14/23 21:08	SMS 1363	
Dieldrin	ND	ug/L	0.010	0.0017	1	11/07/23 12:53	SPR 1427	11/14/23 21:08	SMS 1363	
Endosulfan I	ND	ug/L	0.010	0.0042	1	11/07/23 12:53	SPR 1427	11/14/23 21:08	SMS 1363	
Endosulfan II	ND	ug/L	0.010	0.0023	1	11/07/23 12:53	SPR 1427	11/14/23 21:08	SMS 1363	
Endosulfan sulfate	ND	ug/L	0.010	0.0011	1	11/07/23 12:53	SPR 1427	11/14/23 21:08	SMS 1363	
Endrin	ND	ug/L	0.010	0.0027	1	11/07/23 12:53	SPR 1427	11/14/23 21:08	SMS 1363	
Endrin aldehyde	ND	ug/L	0.010	0.0034	1	11/07/23 12:53	SPR 1427	11/14/23 21:08	SMS 1363	
Endrin ketone	ND	ug/L	0.010	0.0040	1	11/07/23 12:53	SPR 1427	11/14/23 21:08	SMS 1363	
Heptachlor	ND	ug/L	0.010	0.0031	1	11/07/23 12:53	SPR 1427	11/14/23 21:08	SMS 1363	
Heptachlor epoxide	ND	ug/L	0.010	0.0027	1	11/07/23 12:53	SPR 1427	11/14/23 21:08	SMS 1363	
Methoxychlor	ND	ug/L	0.010	0.0035	1	11/07/23 12:53	SPR 1427	11/14/23 21:08	SMS 1363	
PCB 1016	ND	ug/L	0.10	0.030	1	11/07/23 12:53	SPR 1427	11/14/23 21:08	SMS 1363	
PCB 1221	ND	ug/L	0.10	0.030	1	11/07/23 12:53	SPR 1427	11/14/23 21:08	SMS 1363	
PCB 1232	ND	ug/L	0.10	0.030	1	11/07/23 12:53	SPR 1427	11/14/23 21:08	SMS 1363	
PCB 1242	ND	ug/L	0.10	0.030	1	11/07/23 12:53	SPR 1427	11/14/23 21:08	SMS 1363	
PCB 1248	ND	ug/L	0.10	0.030	1	11/07/23 12:53	SPR 1427	11/14/23 21:08	SMS 1363	
PCB 1254	ND	ug/L	0.10	0.030	1	11/07/23 12:53	SPR 1427	11/14/23 21:08	SMS 1363	
PCB 1260	ND	ug/L	0.10	0.030	1	11/07/23 12:53	SPR 1427	11/14/23 21:08	SMS 1363	
Toxaphene	ND	ug/L	0.50	0.40	1	11/07/23 12:53	SPR 1427	11/14/23 21:08	SMS 1363	

Surrogates

Parameter	Recovery	Limits	Prepared	Batch	Analyzed	Batch	Qual
Decachlorobiphenyl (SS)	76%	1 - 199	11/07/23 12:53	SPR 1427	11/14/23 21:08	SMS 1363	
Tetrachloro-m-xylene (SS)	73%	11 - 134	11/07/23 12:53	SPR 1427	11/14/23 21:08	SMS 1363	

Semivolatile Organic Analysis			**Prep Method:**	EPA 625.1				**Prepared By:**	JC	
			Analytical Method:	EPA 625.1				**Analyzed By:**	MDT	
Acenaphthene	ND	ug/L	0.30	0.020	1	11/08/23 16:40	SPR 1429	11/16/23 11:52	SMS 1361	
Acenaphthylene	ND	ug/L	0.20	0.020	1	11/08/23 16:40	SPR 1429	11/16/23 11:52	SMS 1361	
Anthracene	ND	ug/L	0.30	0.030	1	11/08/23 16:40	SPR 1429	11/16/23 11:52	SMS 1361	
Benzidine	ND	ug/L	5.0	4.0	1	11/08/23 16:40	SPR 1429	11/16/23 11:52	SMS 1361	
Benzo(a)anthracene	ND	ug/L	0.30	0.050	1	11/08/23 16:40	SPR 1429	11/16/23 11:52	SMS 1361	
Benzo(a)pyrene	ND	ug/L	0.30	0.040	1	11/08/23 16:40	SPR 1429	11/16/23 11:52	SMS 1361	
Benzo(b)fluoranthene	ND	ug/L	0.30	0.050	1	11/08/23 16:40	SPR 1429	11/16/23 11:52	SMS 1361	
Benzo(g,h,i)perylene	ND	ug/L	0.10	0.050	1	11/08/23 16:40	SPR 1429	11/16/23 11:52	SMS 1361	
Benzo(k)fluoranthene	ND	ug/L	0.30	0.020	1	11/08/23 16:40	SPR 1429	11/16/23 11:52	SMS 1361	
Benzyl butyl phthalate	ND	ug/L	5.0	2.0	1	11/08/23 16:40	SPR 1429	11/16/23 11:52	SMS 1361	
4-Bromophenyl phenyl ether	ND	ug/L	5.0	0.50	1	11/08/23 16:40	SPR 1429	11/16/23 11:52	SMS 1361	
bis(2-Chloroethoxy) methane	ND	ug/L	5.0	0.50	1	11/08/23 16:40	SPR 1429	11/16/23 11:52	SMS 1361	
bis(2-Chloroethyl) ether	ND	ug/L	1.0	0.90	1	11/08/23 16:40	SPR 1429	11/16/23 11:52	SMS 1361	
bis(2-Chloroisopropyl) ether	ND	ug/L	2.0	0.90	1	11/08/23 16:40	SPR 1429	11/16/23 11:52	SMS 1361	
4-Chloro-3-methylphenol	ND	ug/L	1.0	0.50	1	11/08/23 16:40	SPR 1429	11/16/23 11:52	SMS 1361	
2-Chloronaphthalene	ND	ug/L	5.0	1.0	1	11/08/23 16:40	SPR 1429	11/16/23 11:52	SMS 1361	
2-Chlorophenol	ND	ug/L	2.0	0.90	1	11/08/23 16:40	SPR 1429	11/16/23 11:52	SMS 1361	

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ANALYTICAL RESULTS

Lab Order: Y110109
Project ID: MEADOWLARK FAILSAFE EFF 2023

Lab ID Y110109001 **Date Collected:** 11/01/23 07:00 **Matrix:** Water (ML)
Sample ID MEADOWLARK FAILSAFE EFF **Date Received:** 11/02/23 09:15

Parameter	Result	Units	RL	MDL	DF	Prepared	Batch	Analyzed	Batch	Qual
4-Chlorophenyl phenyl ether	ND	ug/L	5.0	0.60	1	11/08/23 16:40	SPR 1429	11/16/23 11:52	SMS 1361	
Chrysene	ND	ug/L	0.30	0.050	1	11/08/23 16:40	SPR 1429	11/16/23 11:52	SMS 1361	
Dibenzo(a,h)anthracene	ND	ug/L	0.10	0.050	1	11/08/23 16:40	SPR 1429	11/16/23 11:52	SMS 1361	
3,3'-Dichlorobenzidine	ND	ug/L	5.0	5.0	1	11/08/23 16:40	SPR 1429	11/16/23 11:52	SMS 1361	
2,4-Dichlorophenol	ND	ug/L	1.0	0.90	1	11/08/23 16:40	SPR 1429	11/16/23 11:52	SMS 1361	
Diethylphthalate	ND	ug/L	2.0	0.50	1	11/08/23 16:40	SPR 1429	11/16/23 11:52	SMS 1361	
2,4-Dimethylphenol	ND	ug/L	2.0	0.40	1	11/08/23 16:40	SPR 1429	11/16/23 11:52	SMS 1361	
Dimethylphthalate	ND	ug/L	2.0	0.50	1	11/08/23 16:40	SPR 1429	11/16/23 11:52	SMS 1361	
Di-n-butylphthalate	ND	ug/L	5.0	0.40	1	11/08/23 16:40	SPR 1429	11/16/23 11:52	SMS 1361	
2,4-Dinitrophenol	ND	ug/L	5.0	2.0	1	11/08/23 16:40	SPR 1429	11/16/23 11:52	SMS 1361	
2,4-Dinitrotoluene	ND	ug/L	5.0	0.90	1	11/08/23 16:40	SPR 1429	11/16/23 11:52	SMS 1361	
2,6-Dinitrotoluene	ND	ug/L	5.0	0.40	1	11/08/23 16:40	SPR 1429	11/16/23 11:52	SMS 1361	
Di-n-octylphthalate	ND	ug/L	5.0	0.40	1	11/08/23 16:40	SPR 1429	11/16/23 11:52	SMS 1361	
1,2Diphenylhydrazine/Azobenzen	ND	ug/L	1.0	0.50	1	11/08/23 16:40	SPR 1429	11/16/23 11:52	SMS 1361	
bis(2-Ethylhexyl) phthalate	ND	ug/L	1.0	0.50	1	11/08/23 16:40	SPR 1429	11/16/23 11:52	SMS 1361	
Fluoranthene	ND	ug/L	0.050	0.020	1	11/08/23 16:40	SPR 1429	11/16/23 11:52	SMS 1361	
Fluorene	ND	ug/L	0.10	0.020	1	11/08/23 16:40	SPR 1429	11/16/23 11:52	SMS 1361	
Hexachlorobenzene	ND	ug/L	1.0	1.0	1	11/08/23 16:40	SPR 1429	11/16/23 11:52	SMS 1361	
Hexachlorobutadiene	ND	ug/L	1.0	0.40	1	11/08/23 16:40	SPR 1429	11/16/23 11:52	SMS 1361	
Hexachlorocyclo pentadiene	ND	ug/L	1.0	0.90	1	11/08/23 16:40	SPR 1429	11/16/23 11:52	SMS 1361	
Hexachloroethane	ND	ug/L	1.0	0.40	1	11/08/23 16:40	SPR 1429	11/16/23 11:52	SMS 1361	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.050	0.050	1	11/08/23 16:40	SPR 1429	11/16/23 11:52	SMS 1361	
Isophorone	ND	ug/L	1.0	0.50	1	11/08/23 16:40	SPR 1429	11/16/23 11:52	SMS 1361	
2-Methyl-4,6-dinitrophenol	ND	ug/L	5.0	2.0	1	11/08/23 16:40	SPR 1429	11/16/23 11:52	SMS 1361	
2-Methylphenol (o-Cresol)	ND	ug/L	5.0	0.40	1	11/08/23 16:40	SPR 1429	11/16/23 11:52	SMS 1361	
3 & 4-Methylphenol(m&p Cresol)	ND	ug/L	5.0	0.80	1	11/08/23 16:40	SPR 1429	11/16/23 11:52	SMS 1361	
Naphthalene	ND	ug/L	0.20	0.020	1	11/08/23 16:40	SPR 1429	11/16/23 11:52	SMS 1361	
Nitrobenzene	ND	ug/L	1.0	0.50	1	11/08/23 16:40	SPR 1429	11/16/23 11:52	SMS 1361	
2-Nitrophenol	ND	ug/L	5.0	0.50	1	11/08/23 16:40	SPR 1429	11/16/23 11:52	SMS 1361	
4-Nitrophenol	ND	ug/L	5.0	1.0	1	11/08/23 16:40	SPR 1429	11/16/23 11:52	SMS 1361	
N-Nitrosodimethylamine	ND	ug/L	5.0	0.70	1	11/08/23 16:40	SPR 1429	11/16/23 11:52	SMS 1361	
N-Nitroso-di-n-propylamine	ND	ug/L	5.0	0.50	1	11/08/23 16:40	SPR 1429	11/16/23 11:52	SMS 1361	
N-Nitrosodiphenylamine	ND	ug/L	1.0	0.70	1	11/08/23 16:40	SPR 1429	11/16/23 11:52	SMS 1361	
Pentachlorophenol	ND	ug/L	1.0	0.40	1	11/08/23 16:40	SPR 1429	11/16/23 11:52	SMS 1361	
Phenanthrene	ND	ug/L	0.050	0.020	1	11/08/23 16:40	SPR 1429	11/16/23 11:52	SMS 1361	
Phenol	ND	ug/L	1.0	0.30	1	11/08/23 16:40	SPR 1429	11/16/23 11:52	SMS 1361	
Pyrene	ND	ug/L	0.050	0.020	1	11/08/23 16:40	SPR 1429	11/16/23 11:52	SMS 1361	
2,4,5-Trichlorophenol	ND	ug/L	5.0	0.50	1	11/08/23 16:40	SPR 1429	11/16/23 11:52	SMS 1361	
2,4,6-Trichlorophenol	ND	ug/L	2.0	0.40	1	11/08/23 16:40	SPR 1429	11/16/23 11:52	SMS 1361	

Surrogates

Parameter	Recovery	Limits	Prepared	Batch	Analyzed	Batch	Qual
2,4,6-Tribromophenol (SS)	92%	1 - 200	11/08/23 16:40	SPR 1429	11/16/23 11:52	SMS 1361	
2-Fluorobiphenyl (SS)	63%	1 - 130	11/08/23 16:40	SPR 1429	11/16/23 11:52	SMS 1361	
2-Fluorophenol (SS)	34%	1 - 130	11/08/23 16:40	SPR 1429	11/16/23 11:52	SMS 1361	
Nitrobenzene-d5 (SS)	60%	1 - 130	11/08/23 16:40	SPR 1429	11/16/23 11:52	SMS 1361	
Phenol-d6 (SS)	19%	1 - 130	11/08/23 16:40	SPR 1429	11/16/23 11:52	SMS 1361	
Terphenyl-d14 (SS)	90%	1 - 200	11/08/23 16:40	SPR 1429	11/16/23 11:52	SMS 1361	

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QUALITY CONTROL DATA

Lab Order: Y110109
Project ID: MEADOWLARK FAILSAFE EFF 2023

Analysis Description:	Semivolatile Organic Analysis	**QC Batch:**	SPR/1429
Analysis Method:	EPA 625.1	**QC Batch Method:**	EPA 625.1

Method Blank (119832)

Parameter	Results	Units	RL	MDL	Qual
Acenaphthene	ND	ug/L	0.30	0.020	
Acenaphthylene	ND	ug/L	0.20	0.020	
Anthracene	ND	ug/L	0.30	0.030	
Benzidine	ND	ug/L	5.0	4.0	
Benzo(a)anthracene	ND	ug/L	0.30	0.050	
Benzo(a)pyrene	ND	ug/L	0.30	0.040	
Benzo(b)fluoranthene	ND	ug/L	0.30	0.050	
Benzo(g,h,i)perylene	ND	ug/L	0.10	0.050	
Benzo(k)fluoranthene	ND	ug/L	0.30	0.020	
Benzyl butyl phthalate	ND	ug/L	5.0	2.0	
4-Bromophenyl phenyl ether	ND	ug/L	5.0	0.50	
bis(2-Chloroethoxy) methane	ND	ug/L	5.0	0.50	
bis(2-Chloroethyl) ether	ND	ug/L	1.0	0.90	
bis(2-Chloroisopropyl) ether	ND	ug/L	2.0	0.90	
4-Chloro-3-methylphenol	ND	ug/L	1.0	0.50	
2-Chloronaphthalene	ND	ug/L	5.0	1.0	
2-Chlorophenol	ND	ug/L	2.0	0.90	
4-Chlorophenyl phenyl ether	ND	ug/L	5.0	0.60	
Chrysene	ND	ug/L	0.30	0.050	
Dibenzo(a,h)anthracene	ND	ug/L	0.10	0.050	
3,3'-Dichlorobenzidine	ND	ug/L	5.0	5.0	
2,4-Dichlorophenol	ND	ug/L	1.0	0.90	
Diethylphthalate	ND	ug/L	2.0	0.50	
2,4-Dimethylphenol	ND	ug/L	2.0	0.40	
Dimethylphthalate	ND	ug/L	2.0	0.50	
Di-n-butylphthalate	ND	ug/L	5.0	0.40	
2,4-Dinitrophenol	ND	ug/L	5.0	2.0	
2,4-Dinitrotoluene	ND	ug/L	5.0	0.90	
2,6-Dinitrotoluene	ND	ug/L	5.0	0.40	
Di-n-octylphthalate	ND	ug/L	5.0	0.40	
1,2Diphenylhydrazine/Azobenzen	ND	ug/L	1.0	0.50	
bis(2-Ethylhexyl) phthalate	ND	ug/L	1.0	0.50	
Fluoranthene	ND	ug/L	0.050	0.020	
Fluorene	ND	ug/L	0.10	0.020	
Hexachlorobenzene	ND	ug/L	1.0	1.0	
Hexachlorobutadiene	ND	ug/L	1.0	0.40	
Hexachlorocyclo pentadiene	ND	ug/L	1.0	0.90	
Hexachloroethane	ND	ug/L	1.0	0.40	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.050	0.050	
Isophorone	ND	ug/L	1.0	0.50	
2-Methyl-4,6-dinitrophenol	ND	ug/L	5.0	2.0	
2-Methylphenol (o-Cresol)	ND	ug/L	5.0	0.40	
3 & 4-Methylphenol(m&p Cresol)	ND	ug/L	5.0	0.80	
Naphthalene	ND	ug/L	0.20	0.020	
Nitrobenzene	ND	ug/L	1.0	0.50	

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QUALITY CONTROL DATA

Lab Order: Y110109
Project ID: MEADOWLARK FAILSAFE EFF 2023

Analysis Description: Semivolatile Organic Analysis **QC Batch:** SPR/1429
Analysis Method: EPA 625.1 **QC Batch Method:** EPA 625.1

Parameter	Results	Units	RL	MDL	Qual
2-Nitrophenol	ND	ug/L	5.0	0.50	
4-Nitrophenol	ND	ug/L	5.0	1.0	
N-Nitrosodimethylamine	ND	ug/L	5.0	0.70	
N-Nitroso-di-n-propylamine	ND	ug/L	5.0	0.50	
N-Nitrosodiphenylamine	ND	ug/L	1.0	0.70	
Pentachlorophenol	ND	ug/L	1.0	0.40	
Phenanthrene	ND	ug/L	0.050	0.020	
Phenol	ND	ug/L	1.0	0.30	
Pyrene	ND	ug/L	0.050	0.020	
2,4,5-Trichlorophenol	ND	ug/L	5.0	0.50	
2,4,6-Trichlorophenol	ND	ug/L	2.0	0.40	

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Rec %	Control Limits	Qual
2,4,6-Tribromophenol (SS)	%	100	116	116	23 - 170	
2-Fluorobiphenyl (SS)	%	50	40	80	15 - 130	
2-Fluorophenol (SS)	%	100	48	48	10 - 130	
Nitrobenzene-d5 (SS)	%	50	40	79	10 - 130	
Phenol-d6 (SS)	%	100	33	33	10 - 130	
Terphenyl-d14 (SS)	%	50	64	128	15 - 170	

Laboratory Control Sample (119833); Laboratory Control Sample Dup (119834)

Parameter	Units	Spiked Amount	Spike Result	Spike Rec %	Control Limits	Dup Result	Dup Rec %	RPD	RPD Limit	Qual
Acenaphthene	ug/L	50	45	90	47 - 145	49	98	9	40	
Acenaphthylene	ug/L	50	43	86	33 - 145	45	90	5	40	
Anthracene	ug/L	50	46	92	27 - 133	53	106	14	40	
Benzidine	ug/L	50	16	32	1 - 130	20	40	22	40	
Benzo(a)anthracene	ug/L	50	48	96	33 - 143	52	104	8	40	
Benzo(a)pyrene	ug/L	50	51	102	17 - 163	55	110	8	40	
Benzo(b)fluoranthene	ug/L	50	53	106	24 - 159	54	108	2	40	
Benzo(g,h,i)perylene	ug/L	50	52	104	1 - 219	55	110	6	40	
Benzo(k)fluoranthene	ug/L	50	54	108	11 - 162	60	120	11	40	
Benzyl butyl phthalate	ug/L	50	55	110	1 - 152	60	120	9	40	
4-Bromophenyl phenyl ether	ug/L	50	52	104	53 - 127	56	112	7	40	
bis(2-Chloroethoxy) methane	ug/L	50	44	88	33 - 184	46	92	4	40	
bis(2-Chloroethyl) ether	ug/L	50	43	86	12 - 158	46	92	7	40	
bis(2-Chloroisopropyl) ether	ug/L	50	39	78	36 - 166	41	82	5	40	
4-Chloro-3-methylphenol	ug/L	100	93	93	22 - 147	100	100	7	40	
2-Chloronaphthalene	ug/L	50	41	82	60 - 120	44	88	7	40	
2-Chlorophenol	ug/L	100	80	80	23 - 134	84	84	5	40	
4-Chlorophenyl phenyl ether	ug/L	50	51	102	25 - 158	53	106	4	40	
Chrysene	ug/L	50	50	100	17 - 168	54	108	8	40	
Dibenzo(a,h)anthracene	ug/L	50	53	106	1 - 227	57	114	7	40	
3,3'-Dichlorobenzidine	ug/L	50	46	92	1 - 262	50	100	8	40	
2,4-Dichlorophenol	ug/L	100	91	91	39 - 135	98	98	7	40	

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QUALITY CONTROL DATA

Lab Order: Y110109
Project ID: MEADOWLARK FAILSAFE EFF 2023

Analysis Description: Semivolatile Organic Analysis **QC Batch:** SPR/1429
Analysis Method: EPA 625.1 **QC Batch Method:** EPA 625.1

Parameter	Units	Spiked Amount	Spike Result	Spike Rec %	Control Limits	Dup Result	Dup Rec %	RPD	RPD Limit	Qual
Diethylphthalate	ug/L	50	48	96	1 - 120	53	106	10	40	
2,4-Dimethylphenol	ug/L	100	85	85	32 - 120	89	89	5	40	
Dimethylphthalate	ug/L	50	49	98	1 - 120	52	104	6	40	
Di-n-butylphthalate	ug/L	50	45	90	1 - 120	48	96	6	40	
2,4-Dinitrophenol	ug/L	100	110	110	1 - 191	117	117	6	40	
2,4-Dinitrotoluene	ug/L	50	51	102	39 - 139	54	108	6	40	
2,6-Dinitrotoluene	ug/L	50	47	94	50 - 158	50	100	6	40	
Di-n-octylphthalate	ug/L	50	53	106	4 - 146	57	114	7	40	
1,2Diphenylhydrazine/Azobenzen	ug/L	50	53	106	30 - 130	58	116	9	40	
bis(2-Ethylhexyl) phthalate	ug/L	50	55	110	8 - 158	60	120	9	40	
Fluoranthene	ug/L	50	54	108	26 - 137	58	116	7	40	
Fluorene	ug/L	50	51	102	59 - 121	54	108	6	40	
Hexachlorobenzene	ug/L	50	50	100	1 - 152	54	108	8	40	
Hexachlorobutadiene	ug/L	50	37	74	24 - 120	40	80	8	40	
Hexachlorocyclo pentadiene	ug/L	50	28	56	1 - 130	29	58	4	40	
Hexachloroethane	ug/L	50	36	72	40 - 120	39	78	8	40	
Indeno(1,2,3-cd)pyrene	ug/L	50	52	104	1 - 171	69	138	28	40	
Isophorone	ug/L	50	40	80	21 - 196	43	86	7	40	
2-Methyl-4,6-dinitrophenol	ug/L	100	121	121	1 - 181	136	136	12	40	
2-Methylphenol (o-Cresol)	ug/L	100	78	78	35 - 130	81	81	4	40	
3 & 4-Methylphenol(m&p Cresol)	ug/L	100	79	79	25 - 130	82	82	4	40	
Naphthalene	ug/L	50	38	76	21 - 133	41	82	8	40	
Nitrobenzene	ug/L	50	40	80	35 - 180	44	88	10	40	
2-Nitrophenol	ug/L	100	93	93	29 - 182	102	102	9	40	
4-Nitrophenol	ug/L	100	53	53	1 - 132	57	57	7	40	
N-Nitrosodimethylamine	ug/L	50	27	54	25 - 130	29	58	7	40	
N-Nitroso-di-n-propylamine	ug/L	50	46	92	1 - 230	48	96	4	40	
N-Nitrosodiphenylamine	ug/L	50	52	104	30 - 130	55	110	6	40	
Pentachlorophenol	ug/L	100	107	107	14 - 176	114	114	6	40	
Phenanthrene	ug/L	50	51	102	54 - 120	53	106	4	40	
Phenol	ug/L	100	40	40	5 - 120	43	43	7	40	
Pyrene	ug/L	50	51	102	52 - 120	55	110	8	40	
2,4,5-Trichlorophenol	ug/L	100	111	111	45 - 130	111	111	0	40	
2,4,6-Trichlorophenol	ug/L	100	107	107	37 - 144	117	117	9	40	

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Rec %	Control Limits	Dup Result	Dup Rec %	RPD	RPD Limit	Qual
2,4,6-Tribromophenol (SS)	%	100	112	112	23 - 170	117	117	5		
2-Fluorobiphenyl (SS)	%	50	42	84	15 - 130	44	88	5		
2-Fluorophenol (SS)	%	100	52	52	10 - 130	55	55	4		
Nitrobenzene-d5 (SS)	%	50	41	82	10 - 130	44	88	8		
Phenol-d6 (SS)	%	100	39	39	10 - 130	40	40	3		
Terphenyl-d14 (SS)	%	50	51	102	15 - 170	54	107	5		

Matrix Spike (120122); Matrix Spike Dup (120123)

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QUALITY CONTROL DATA

Lab Order: Y110109
Project ID: MEADOWLARK FAILSAFE EFF 2023

Analysis Description: Semivolatile Organic Analysis **QC Batch:** SPR/1429
Analysis Method: EPA 625.1 **QC Batch Method:** EPA 625.1

Parameter	Y110386001 Result	Units	Spiked Amount	Spike Result	Spike Rec %	Control Limits	Dup Result	Dup Rec %	RPD	RPD Limit	Qual
Acenaphthene	ND	ug/L	48	44	92	47 - 145	44	92	0	48	
Acenaphthylene	ND	ug/L	48	41	86	33 - 145	42	87	2	74	
Anthracene	ND	ug/L	48	49	103	27 - 133	53	110	8	66	
Benzidine	ND	ug/L	48	0	**RNC**	1 - 130	0	**RNC**	0	40	2
Benzo(a)anthracene	ND	ug/L	48	50	105	33 - 143	52	108	4	53	
Benzo(a)pyrene	ND	ug/L	48	53	111	17 - 163	54	112	2	72	
Benzo(b)fluoranthene	ND	ug/L	48	58	122	24 - 159	60	125	3	71	
Benzo(g,h,i)perylene	ND	ug/L	48	51	107	1 - 219	48	100	6	97	
Benzo(k)fluoranthene	ND	ug/L	48	56	118	11 - 162	57	119	2	63	
Benzyl butyl phthalate	ND	ug/L	48	61	128	1 - 152	62	129	2	60	
4-Bromophenyl phenyl ether	ND	ug/L	48	55	116	53 - 127	56	116	2	43	
bis(2-Chloroethoxy) methane	ND	ug/L	48	39	82	33 - 184	38	79	3	54	
bis(2-Chloroethyl) ether	ND	ug/L	48	37	78	12 - 158	35	73	6	108	
bis(2-Chloroisopropyl) ether	ND	ug/L	48	34	71	36 - 166	31	64	9	76	
4-Chloro-3-methylphenol	ND	ug/L	95	101	106	22 - 147	97	101	4	73	
2-Chloronaphthalene	ND	ug/L	48	39	82	60 - 120	38	79	3	24	
2-Chlorophenol	ND	ug/L	95	76	80	23 - 134	71	74	7	61	
4-Chlorophenyl phenyl ether	ND	ug/L	48	51	107	25 - 158	51	106	0	61	
Chrysene	ND	ug/L	48	55	116	17 - 168	56	116	2	87	
Dibenzo(a,h)anthracene	ND	ug/L	48	53	111	1 - 227	52	108	2	126	
3,3'-Dichlorobenzidine	ND	ug/L	48	25	53	1 - 262	25	52	0	108	
2,4-Dichlorophenol	ND	ug/L	95	88	92	39 - 135	85	88	3	50	
Diethylphthalate	ND	ug/L	48	52	109	1 - 120	53	110	2	100	
2,4-Dimethylphenol	ND	ug/L	95	80	84	32 - 120	78	81	3	58	
Dimethylphthalate	ND	ug/L	48	52	109	1 - 120	52	108	0	183	
Di-n-butylphthalate	ND	ug/L	48	49	103	1 - 120	52	108	6	47	
2,4-Dinitrophenol	ND	ug/L	95	118	124	1 - 191	119	124	1	132	
2,4-Dinitrotoluene	ND	ug/L	48	52	109	39 - 139	54	112	4	42	
2,6-Dinitrotoluene	ND	ug/L	48	49	103	50 - 158	49	102	0	48	
Di-n-octylphthalate	ND	ug/L	48	57	120	4 - 146	59	123	3	69	
1,2Diphenylhydrazine/Azobenzen	ND	ug/L	48	57	120	1 - 130	56	116	2	40	
bis(2-Ethylhexyl) phthalate	ND	ug/L	48	61	128	8 - 158	62	129	2	82	
Fluoranthene	ND	ug/L	48	55	116	26 - 137	58	121	5	66	
Fluorene	ND	ug/L	48	52	109	59 - 121	53	110	2	38	
Hexachlorobenzene	ND	ug/L	48	54	113	1 - 152	55	114	2	55	
Hexachlorobutadiene	ND	ug/L	48	33	69	24 - 120	31	64	6	62	
Hexachlorocyclo pentadiene	ND	ug/L	48	20	42	1 - 130	18	37	11	40	
Hexachloroethane	ND	ug/L	48	32	67	40 - 120	29	60	10	52	
Indeno(1,2,3-cd)pyrene	ND	ug/L	48	51	107	1 - 171	50	104	2	99	
Isophorone	ND	ug/L	48	38	80	1 - 130	37	77	3	93	
2-Methyl-4,6-dinitrophenol	ND	ug/L	95	130	137	1 - 181	129	134	1	203	
2-Methylphenol (o-Cresol)	ND	ug/L	95	74	78	1 - 130	69	72	7	40	
3 & 4-Methylphenol(m&p Cresol)	ND	ug/L	95	74	78	1 - 130	71	74	4	40	
Naphthalene	ND	ug/L	48	34	71	21 - 133	33	69	3	65	
Nitrobenzene	ND	ug/L	48	35	74	35 - 180	34	71	3	62	

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QUALITY CONTROL DATA

Lab Order: Y110109
Project ID: MEADOWLARK FAILSAFE EFF 2023

Analysis Description: Semivolatile Organic Analysis **QC Batch:** SPR/1429
Analysis Method: EPA 625.1 **QC Batch Method:** EPA 625.1

Parameter	Y110386001 Result	Units	Spiked Amount	Spike Result	Spike Rec %	Control Limits	Dup Result	Dup Rec %	RPD	RPD Limit	Qual
2-Nitrophenol	ND	ug/L	95	82	86	29 - 182	77	80	6	55	
4-Nitrophenol	ND	ug/L	95	57	60	1 - 132	58	60	2	131	
N-Nitrosodimethylamine	ND	ug/L	48	25	53	1 - 130	24	50	4	40	
N-Nitroso-di-n-propylamine	ND	ug/L	48	41	86	1 - 230	38	79	8	87	
N-Nitrosodiphenylamine	ND	ug/L	48	54	113	1 - 155	54	112	0	40	
Pentachlorophenol	ND	ug/L	95	119	125	14 - 176	119	124	0	86	
Phenanthrene	ND	ug/L	48	51	107	54 - 120	54	112	6	39	
Phenol	ND	ug/L	95	37	39	5 - 120	35	36	6	64	
Pyrene	ND	ug/L	48	57	120	52 - 120	59	**123**	3	49	1
2,4,5-Trichlorophenol	ND	ug/L	95	105	110	1 - 130	106	110	1	40	
2,4,6-Trichlorophenol	ND	ug/L	95	107	112	37 - 144	109	113	2	58	

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Rec %	Control Limits	Dup Result	Dup Rec %	RPD	RPD Limit	Qual
2,4,6-Tribromophenol (SS)	%	95	119	125	1 - 200	117	122	1		
2-Fluorobiphenyl (SS)	%	48	41	86	1 - 130	39	81	6		
2-Fluorophenol (SS)	%	95	48	51	1 - 130	46	48	5		
Nitrobenzene-d5 (SS)	%	48	36	75	1 - 130	34	71	6		
Phenol-d6 (SS)	%	95	35	37	1 - 130	33	34	6		
Terphenyl-d14 (SS)	%	48	55	116	1 - 200	56	117	2		

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QUALITY CONTROL DATA QUALIFIERS

Lab Order: Y110109
Project ID: MEADOWLARK FAILSAFE EFF 2023

Quality Control Parameter Qualifiers

Results Qualifiers: Report fields may contain codes and non-numeric data correlating to one or more of the following definitions:

NS - means not spiked and will not have recoveries reported for Analyte Spike Amounts

QC Codes Keys: These descriptors are used to help identify the specific QC samples and clarify the report.

MB - Method Blank

Method Blanks are reported to the same Method Detection Limits (MDLs) or Reporting Limits (RLs) as the analytical samples in the corresponding QC batch.

LCS/LCSD - Laboratory Control Spike / Laboratory Control Spike Duplicate

DUP - Duplicate of Original Sample Matrix

MS/MSD - Matrix Spike / Matrix Spike Duplicate

RPD - Relative Percent Difference

%Recovery - Spike Recovery stated as a percentage

1	High Matrix Spike recovery(ies) due to possible matrix interferences in the QC sample. QC batch accepted based on LCS and RPD results.
2	RNC = Recovery Not Calculated. Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries were not calculated due to matrix interferences concealing the added spike concentration.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab Order: Y110109
Project ID: MEADOWLARK FAILSAFE EFF 2023

Lab ID	Sample ID	Prep Batch	Prep Method
SMS/1361 - EPA 625.1			
Y110109001	MEADOWLARK FAILSAFE EFF	SPR/1429	EPA 625.1
SMS/1363 - EPA 625.1			
Y110109001	MEADOWLARK FAILSAFE EFF	SPR/1427	EPA 625.1

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(707) 258-4000 • Fax (707) 226-1001 • e-mail: info@caltestlabs.com

1885 N. KELLY ROAD, NAPA, CA 94558 (707) 258-4000 info@caltestlabs.com www.caltestlabs.com

SAMPLE CHAIN OF CUSTODY

Caltest ANALYTICAL LABORATORY

PAGE ____ OF ____

CLIENT: Encina Wastewater Authority

PROJECT NAME / PROJECT NUMBER: Meadowlark Failsafe Effluent 2023

P.O. NUMBER: 2024-0069

LAB ORDER #: 411009

REPORT ATTN:

MAILING ADDRESS: 6200 Avenida Encinas

BILLING ADDRESS:

CITY: Carlsbad

ATTN:

STATE: CA

ZIP: 92011

PHONE NUMBER: (760)268-8801

EMAIL ADDRESS: rachael@encinajpa.com

SAMPLER (PRINT & SIGN NAME): AS / Arturo S.

ANALYSES REQUESTED

TURN-AROUND TIME
[X] STANDARD
[ ] RUSH

DUE DATE: ____

REGULATORY DRINKING WATER?
___ Yes / X No
If Yes, write 13-digit CLIP Code(s) below:

Please provide detection limits & reporting limits

CALTEST SAMPLE #	DATE SAMPLED	TIME SAMPLED	SAMPLE MATRIX*	CONTAINER TYPE/ AMOUNT**	PRESERVATIVE	SAMPLE IDENTIFICATION / SITE	CLIENT LAB #	COMP. or GRAB	EPA 625.1 Semi-Volatile Organics LL + Organochlorine Pesticides
1	10/31/23 - 11/1/23	0700-0700	WW	AL/3	Ice	Meadowlark Failsafe Eff		Comp	X

WHITE - LABORATORY YELLOW - CLIENT COPY TO ACCOMPANY FINAL REPORT PINK - CLIENT COPY AS RECEIPT

RELINQUISHED BY	DATE/TIME	RECEIVED BY
	11/1/23 11:00	Fedex

RELINQUISHED BY	DATE/TIME	RECEIVED BY
Fedex	11/02/23 0915	

REPORTING OPTIONS (Choose One): ___ EMAIL ___ MAIL ___ BOTH

COMMENTS:

FOR LAB USE ONLY

TEMP: 0.2 °C / 0.8 °C SEALED: (Y) N INTACT: (Y) N ON ICE: (Y) N

Samples: WC MICRO BIO MET SV VOA

BD: WC MET VOA

SIL HP PT QT VOA SUB

WHNO3 H2SO4 NaOH

PIL HNO3 H2SO4 NaOH HCl

*MATRIX: W = Aqueous Nondrinking Water, Digested Metals; ML = Final Effluent, Minimum-Level/Low-Level R.L.; DW = Drinking Water; SL = Soil, Sludge, Solid; FP = Free Product

**CONTAINER TYPES: AL = Amber Liter; A-HL = 500 mL Amber; PT = Pint (Plastic); QT = Quart (Plastic); HG = Half Gallon (Plastic); SJ = Soil Jar; B4 = 4oz. BACT; BT = Brass Tube; VOA = 40mL VOA; OTC = Other Type Container

10/31/23

1885 North Kelly Road • Napa, California 94558
(707) 258-4000 • Fax (707) 226-1001 • e-mail: info@caltestlabs.com

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ANALYTICAL REPORT

PREPARED FOR

Attn: Rachael Morgan
Encina Wastewater Authority
6200 Avenida Encinas
Carlsbad, California 92011

Generated 3/16/2023 2:42:56 PM

JOB DESCRIPTION

2023 Annual Meadowlark Effluent Priority Pollutant

JOB NUMBER

570-130692-1

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin CA 92780

See page two for job notes and contact information.

Eurofins Calscience

Job Notes

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The data in the report relate to the field sample(s) as received by the laboratory and associated QC. All results have been reviewed and have been found to be compliant with laboratory and accreditation requirements, with the exception of the noted deviation(s). For questions, please contact the Project Manager.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Calscience Project Manager.

Authorization

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3/16/2023 2:42:56 PM

Authorized for release by
Janice Hsu, Project Manager I
Janice.Hsu@et.eurofinsus.com
(657)210-6359

Table of Contents

Definitions/Glossary

Client: Encina Wastewater Authority
Job ID: 570-130692-1
Project/Site: 2023 Annual Meadowlark Effluent Priority Pollutar

Qualifiers

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control 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
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

Case Narrative

Client: Encina Wastewater Authority
Job ID: 570-130692-1
Project/Site: 2023 Annual Meadowlark Effluent Priority Pollutant

Job ID: 570-130692-1

Laboratory: Eurofins Calscience

Narrative

Job Narrative
570-130692-1

Receipt
The sample was received on 3/9/2023 8:18 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.2°C

General Chemistry
Method Kelada_01: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 570-312131 were outside control limits. 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.

Detection Summary

Client: Encina Wastewater Authority
Job ID: 570-130692-1
Project/Site: 2023 Annual Meadowlark Effluent Priority Pollutar

Client Sample ID: Meadowlark Effluent
Lab Sample ID: 570-130692-1

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Encina Wastewater Authority
Job ID: 570-130692-1
Project/Site: 2023 Annual Meadowlark Effluent Priority Pollutar

General Chemistry

Client Sample ID: Meadowlark Effluent
Date Collected: 03/08/23 07:00
Date Received: 03/09/23 20:18

Lab Sample ID: 570-130692-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (EPA Kelada 01)	ND		5.0	2.5	ug/L			03/14/23 19:36	1

Method: Kelada 01 - Cyanide, Total, Acid Dissociable and Thiocyanate

Lab Sample ID: MB 570-312131/14
Matrix: Water
Analysis Batch: 312131

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		5.0	2.5	ug/L			03/14/23 19:36	1

Lab Sample ID: LCS 570-312131/16
Matrix: Water
Analysis Batch: 312131

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			250	252		ug/L		101	90 - 110		

Lab Sample ID: LCSD 570-312131/17
Matrix: Water
Analysis Batch: 312131

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total			250	266		ug/L		107	90 - 110	5	20

Lab Sample ID: MRL 570-312131/13
Matrix: Water
Analysis Batch: 312131

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			5.00	6.06		ug/L		121	50 - 150		

Lab Sample ID: 570-129852-H-1 MS
Matrix: Water
Analysis Batch: 312131

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		
Cyanide, Total	ND	F1	250	150	F1	ug/L		60	70 - 130		

Lab Sample ID: 570-129852-H-1 MSD
Matrix: Water
Analysis Batch: 312131

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
Cyanide, Total	ND	F1	250	174		ug/L		70	70 - 130	15	30

QC Association Summary

Client: Encina Wastewater Authority
Job ID: 570-130692-1
Project/Site: 2023 Annual Meadowlark Effluent Priority Pollutar

General Chemistry

Analysis Batch: 312131

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-130692-1	Meadowlark Effluent	Total/NA	Water	Kelada 01	
MB 570-312131/14	Method Blank	Total/NA	Water	Kelada 01	
LCS 570-312131/16	Lab Control Sample	Total/NA	Water	Kelada 01	
LCSD 570-312131/17	Lab Control Sample Dup	Total/NA	Water	Kelada 01	
MRL 570-312131/13	Lab Control Sample	Total/NA	Water	Kelada 01	
570-129852-H-1 MS	Matrix Spike	Total/NA	Water	Kelada 01	
570-129852-H-1 MSD	Matrix Spike Duplicate	Total/NA	Water	Kelada 01	

Lab Chronicle

Client: Encina Wastewater Authority
Job ID: 570-130692-1
Project/Site: 2023 Annual Meadowlark Effluent Priority Pollutar

Client Sample ID: Meadowlark Effluent
Lab Sample ID: 570-130692-1

Date Collected: 03/08/23 07:00
Matrix: Water
Date Received: 03/09/23 20:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Kelada 01		1	8 mL	8 mL	312131	03/14/23 19:36	GG0B	EET CAL 4
	Instrument ID: LACHAT01									

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: Encina Wastewater Authority
Job ID: 570-130692-1
Project/Site: 2023 Annual Meadowlark Effluent Priority Pollutar

Laboratory: Eurofins Calscience

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-24

Method Summary

Client: Encina Wastewater Authority
Job ID: 570-130692-1
Project/Site: 2023 Annual Meadowlark Effluent Priority Pollutar

Method	Method Description	Protocol	Laboratory
Kelada 01	Cyanide, Total, Acid Dissociable and Thiocyanate	EPA	EET CAL 4

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

Client: Encina Wastewater Authority
Project/Site: 2023 Annual Meadowlark Effluent Priority Pollutant

Job ID: 570-130692-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-130692-1	Meadowlark Effluent	Water	03/08/23 07:00	03/09/23 20:18

Eurofins Calscience Irvine
7461 Derian Ave Suite 100
vine, CA 92614-5817
hone (949) 261-1022 Fax (949) 260-3297

Chain of Custody Record

570-130692 Chain of Custody

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Loc: 570
130692

Client Information	Sampler: CJ	Lab PM: Janice Hsu	COC No:
Client Contact: Rachael Morgan	Phone: 760.268.8801	E-Mail: Janice.Hsu@Eurofinset.com	Page: Page 1 of 1
Company: Encina Wastewater Authority		Analysis Requested	Job #:
Address: 5200 Avenida Encinas	Due Date Requested:		Preservation Codes:
City: Carlsbad	TAT Requested (days): 10 Working Days		A - HCl, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: California, 92011			
Phone: 760-268-8801	PO #: 20230040		Other:
Email: rachael@encinajpa.com	WO #:		
Project Name: 2023 Annual Meadowlark Effluent Priority Pollutant Scan	Project #:		

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Cyanide SM 4500 CN-E	Total Number of containers	Special Instructions/Note:
Meadowlark Effluent	3/7-8/23	0700 - 0700	C	WW			X	1	B

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	3/9/23 @ 1450	EWA	William Rivera	3/9/23 1900	EC
William Rivera	3/9/23 2018	EC	[signature]	3/9/23 2018	EC
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

2.3/2.2 SC12

Login Sample Receipt Checklist

Client: Encina Wastewater Authority

Job Number: 570-130692-1

Login Number: 130692
List Number: 1
Creator: Hsu, Janice

List Source: Eurofins Calscience

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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.	True	
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	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Rachael Morgan
Encina Wastewater Authority
6200 Avenida Encinas
Carlsbad, California 92011

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JOB DESCRIPTION

2023 Annual Meadowlark Effluent
SDG NUMBER Priority Pollutant Scan

JOB NUMBER

570-127214-1

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin CA 92780

See page two for job notes and contact information.

Eurofins Calscience

Job Notes

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Authorization

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Authorized for release by
Janice Hsu, Project Manager I
Janice.Hsu@et.eurofinsus.com
(657)210-6359

Table of Contents

Definitions/Glossary

Client: Encina Wastewater Authority
Project/Site: 2023 Annual Meadowlark Effluent

Job ID: 570-127214-1
SDG: Priority Pollutant Scan

Qualifiers

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.

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
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

Case Narrative

Client: Encina Wastewater Authority
Project/Site: 2023 Annual Meadowlark Effluent

Job ID: 570-127214-1
SDG: Priority Pollutant Scan

Job ID: 570-127214-1

Laboratory: Eurofins Calscience

Narrative

Job Narrative
570-127214-1

Receipt
The sample was received on 2/9/2023 7:30 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C

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

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

Detection Summary

Client: Encina Wastewater Authority
Project/Site: 2023 Annual Meadowlark Effluent

Job ID: 570-127214-1
SDG: Priority Pollutant Scan

Client Sample ID: Meadowlark Failsafe

Lab Sample ID: 570-127214-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.010	J	0.050	0.0016	mg/L	1		200.7 Rev 4.4	Total Recoverable
Lead	0.12	J	1.0	0.12	ug/L	1		200.8	Total Recoverable
Selenium	0.89	J	2.0	0.52	ug/L	1		200.8	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client: Encina Wastewater Authority
Project/Site: 2023 Annual Meadowlark Effluent

Job ID: 570-127214-1
SDG: Priority Pollutant Scan

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Client Sample ID: Meadowlark Failsafe
Date Collected: 02/08/23 07:00
Date Received: 02/09/23 19:30

Lab Sample ID: 570-127214-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.010	0.0034	mg/L		02/13/23 06:49	02/13/23 12:46	1
Copper	**0.010**	**J**	0.050	0.0016	mg/L		02/13/23 06:49	02/13/23 12:46	1

Client: Encina Wastewater Authority
Project/Site: 2023 Annual Meadowlark Effluent

Job ID: 570-127214-1
SDG: Priority Pollutant Scan

Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable

Client Sample ID: Meadowlark Failsafe
Date Collected: 02/08/23 07:00
Date Received: 02/09/23 19:30

Lab Sample ID: 570-127214-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.50	0.22	ug/L		02/13/23 06:16	02/13/23 10:52	1
Lead	**0.12**	**J**	1.0	0.12	ug/L		02/13/23 06:16	02/13/23 10:52	1
Selenium	**0.89**	**J**	2.0	0.52	ug/L		02/13/23 06:16	02/13/23 10:52	1
Thallium	ND		1.0	0.11	ug/L		02/13/23 06:16	02/13/23 10:52	1

Client: Encina Wastewater Authority
Project/Site: 2023 Annual Meadowlark Effluent

Job ID: 570-127214-1
SDG: Priority Pollutant Scan

Method: EPA 245.1 - Mercury (CVAA)

Client Sample ID: Meadowlark Failsafe
Date Collected: 02/08/23 07:00
Date Received: 02/09/23 19:30

Lab Sample ID: 570-127214-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		02/14/23 18:15	02/15/23 18:49	1

Client: Encina Wastewater Authority
Project/Site: 2023 Annual Meadowlark Effluent

Job ID: 570-127214-1
SDG: Priority Pollutant Scan

General Chemistry

Client Sample ID: Meadowlark Failsafe
Date Collected: 02/08/23 07:00
Date Received: 02/09/23 19:30

Lab Sample ID: 570-127214-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SM 4500 CN E)	ND		0.025	0.0080	mg/L		02/21/23 14:42	02/21/23 16:47	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 570-303168/1-A
Matrix: Water
Analysis Batch: 303398

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 303168

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.010	0.0034	mg/L		02/13/23 06:49	02/13/23 12:33	1
Copper	ND		0.050	0.0016	mg/L		02/13/23 06:49	02/13/23 12:33	1

Lab Sample ID: LCS 570-303168/2-A
Matrix: Water
Analysis Batch: 303398

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 303168

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	0.250	0.253		mg/L		101	85 - 115
Copper	0.500	0.506		mg/L		101	85 - 115

Lab Sample ID: LCSD 570-303168/3-A
Matrix: Water
Analysis Batch: 303398

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 303168

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Silver	0.250	0.252		mg/L		101	85 - 115	0	20
Copper	0.500	0.506		mg/L		101	85 - 115	0	20

Lab Sample ID: 570-127214-1 MS
Matrix: Water
Analysis Batch: 303398

Client Sample ID: Meadowlark Failsafe
Prep Type: Total Recoverable
Prep Batch: 303168

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	ND		0.250	0.259		mg/L		104	80 - 120
Copper	0.010	J	0.500	0.558		mg/L		110	80 - 120

Lab Sample ID: 570-127214-1 MSD
Matrix: Water
Analysis Batch: 303398

Client Sample ID: Meadowlark Failsafe
Prep Type: Total Recoverable
Prep Batch: 303168

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Silver	ND		0.250	0.260		mg/L		104	80 - 120	0	20
Copper	0.010	J	0.500	0.560		mg/L		110	80 - 120	0	20

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 570-303167/1-A
Matrix: Water
Analysis Batch: 303328

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 303167

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.50	0.22	ug/L		02/13/23 06:16	02/13/23 10:40	1

Lab Sample ID: LCS 570-303167/2-A
Matrix: Water
Analysis Batch: 303328

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 303167

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	80.0	78.6		ug/L		98	85 - 115

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 570-303167/3-A
Matrix: Water
Analysis Batch: 303328

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 303167

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Beryllium			80.0	77.2		ug/L		96	85 - 115	2	20

Lab Sample ID: 570-127175-B-4-B MS
Matrix: Water
Analysis Batch: 303328

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 303167

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	ND		80.0	74.1		ug/L		93	80 - 120

Lab Sample ID: 570-127175-B-4-C MSD
Matrix: Water
Analysis Batch: 303328

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 303167

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Beryllium	ND		80.0	76.2		ug/L		95	80 - 120	3	20

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 570-303811/1-A
Matrix: Water
Analysis Batch: 304145

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 303811

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		02/14/23 18:15	02/15/23 21:29	1

Lab Sample ID: LCS 570-303811/2-A
Matrix: Water
Analysis Batch: 304145

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 303811

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury			0.00800	0.00752		mg/L		94	85 - 115

Lab Sample ID: LCSD 570-303811/3-A
Matrix: Water
Analysis Batch: 304145

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 303811

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury			0.00800	0.00745		mg/L		93	85 - 115	1	10

Lab Sample ID: 570-124794-D-1-E MS
Matrix: Water
Analysis Batch: 304145

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 303811

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		0.00800	0.00721		mg/L		90	85 - 115

Method: 245.1 - Mercury (CVAA) (Continued)

Lab Sample ID: 570-124794-D-1-F MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 304145 — **Prep Batch: 303811**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.00800	0.00745		mg/L		93	85 - 115	3	10

Method: SM 4500 CN E - Cyanide, Total

Lab Sample ID: MB 570-305719/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 305753 — **Prep Batch: 305719**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.025	0.0080	mg/L		02/21/23 14:42	02/21/23 16:46	1

Lab Sample ID: LCS 570-305719/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 305753 — **Prep Batch: 305719**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.200	0.194		mg/L		97	80 - 120

Lab Sample ID: LCSD 570-305719/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 305753 — **Prep Batch: 305719**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	0.200	0.190		mg/L		95	80 - 120	2	20

Lab Sample ID: 570-126747-C-1-B MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 305753 — **Prep Batch: 305719**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	ND		0.200	0.198		mg/L		99	74 - 115

Lab Sample ID: 570-126747-C-1-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 305753 — **Prep Batch: 305719**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	ND		0.200	0.202		mg/L		101	74 - 115	2	20

Metals

Prep Batch: 303167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-127214-1	Meadowlark Failsafe	Total Recoverable	Water	200.8	
MB 570-303167/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 570-303167/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCSD 570-303167/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	
570-127175-B-4-B MS	Matrix Spike	Total Recoverable	Water	200.8	
570-127175-B-4-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	200.8	

Prep Batch: 303168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-127214-1	Meadowlark Failsafe	Total Recoverable	Water	200.7	
MB 570-303168/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 570-303168/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 570-303168/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
570-127214-1 MS	Meadowlark Failsafe	Total Recoverable	Water	200.7	
570-127214-1 MSD	Meadowlark Failsafe	Total Recoverable	Water	200.7	

Analysis Batch: 303328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-127214-1	Meadowlark Failsafe	Total Recoverable	Water	200.8	303167
MB 570-303167/1-A	Method Blank	Total Recoverable	Water	200.8	303167
LCS 570-303167/2-A	Lab Control Sample	Total Recoverable	Water	200.8	303167
LCSD 570-303167/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	303167
570-127175-B-4-B MS	Matrix Spike	Total Recoverable	Water	200.8	303167
570-127175-B-4-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	200.8	303167

Analysis Batch: 303398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-127214-1	Meadowlark Failsafe	Total Recoverable	Water	200.7 Rev 4.4	303168
MB 570-303168/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	303168
LCS 570-303168/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	303168
LCSD 570-303168/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	303168
570-127214-1 MS	Meadowlark Failsafe	Total Recoverable	Water	200.7 Rev 4.4	303168
570-127214-1 MSD	Meadowlark Failsafe	Total Recoverable	Water	200.7 Rev 4.4	303168

Prep Batch: 303811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-127214-1	Meadowlark Failsafe	Total/NA	Water	245.1	
MB 570-303811/1-A	Method Blank	Total/NA	Water	245.1	
LCS 570-303811/2-A	Lab Control Sample	Total/NA	Water	245.1	
LCSD 570-303811/3-A	Lab Control Sample Dup	Total/NA	Water	245.1	
570-124794-D-1-E MS	Matrix Spike	Total/NA	Water	245.1	
570-124794-D-1-F MSD	Matrix Spike Duplicate	Total/NA	Water	245.1	

Analysis Batch: 304145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-127214-1	Meadowlark Failsafe	Total/NA	Water	245.1	303811
MB 570-303811/1-A	Method Blank	Total/NA	Water	245.1	303811
LCS 570-303811/2-A	Lab Control Sample	Total/NA	Water	245.1	303811
LCSD 570-303811/3-A	Lab Control Sample Dup	Total/NA	Water	245.1	303811
570-124794-D-1-E MS	Matrix Spike	Total/NA	Water	245.1	303811
570-124794-D-1-F MSD	Matrix Spike Duplicate	Total/NA	Water	245.1	303811

QC Association Summary

Client: Encina Wastewater Authority
Project/Site: 2023 Annual Meadowlark Effluent

Job ID: 570-127214-1
SDG: Priority Pollutant Scan

General Chemistry

Prep Batch: 305719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-127214-1	Meadowlark Failsafe	Total/NA	Water	SM 4500 CN C	
MB 570-305719/1-A	Method Blank	Total/NA	Water	SM 4500 CN C	
LCS 570-305719/2-A	Lab Control Sample	Total/NA	Water	SM 4500 CN C	
LCSD 570-305719/3-A	Lab Control Sample Dup	Total/NA	Water	SM 4500 CN C	
570-126747-C-1-B MS	Matrix Spike	Total/NA	Water	SM 4500 CN C	
570-126747-C-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 CN C	

Analysis Batch: 305753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-127214-1	Meadowlark Failsafe	Total/NA	Water	SM 4500 CN E	305719
MB 570-305719/1-A	Method Blank	Total/NA	Water	SM 4500 CN E	305719
LCS 570-305719/2-A	Lab Control Sample	Total/NA	Water	SM 4500 CN E	305719
LCSD 570-305719/3-A	Lab Control Sample Dup	Total/NA	Water	SM 4500 CN E	305719
570-126747-C-1-B MS	Matrix Spike	Total/NA	Water	SM 4500 CN E	305719
570-126747-C-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 CN E	305719

Lab Chronicle

Client: Encina Wastewater Authority
Project/Site: 2023 Annual Meadowlark Effluent

Job ID: 570-127214-1
SDG: Priority Pollutant Scan

Client Sample ID: Meadowlark Failsafe
Date Collected: 02/08/23 07:00
Date Received: 02/09/23 19:30

Lab Sample ID: 570-127214-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.7			50 mL	50 mL	303168	02/13/23 06:49	JP8N	EET CAL 4
Total Recoverable	Analysis	200.7 Rev 4.4		1			303398	02/13/23 12:46	VZ0K	EET CAL 4
	Instrument ID: ICP11									
Total Recoverable	Prep	200.8			50 mL	50 mL	303167	02/13/23 06:16	JP8N	EET CAL 4
Total Recoverable	Analysis	200.8		1			303328	02/13/23 10:52	Y2WS	EET CAL 4
	Instrument ID: ICPMS10									
Total/NA	Prep	245.1			25 mL	50 mL	303811	02/14/23 18:15	CS5Z	EET CAL 4
Total/NA	Analysis	245.1		1			304145	02/15/23 18:49	C0YH	EET CAL 4
	Instrument ID: HG7									
Total/NA	Prep	SM 4500 CN C			50 mL	50 mL	305719	02/21/23 14:42	GG0B	EET CAL 4
Total/NA	Analysis	SM 4500 CN E		1	5 mL	5 mL	305753	02/21/23 16:47	GG0B	EET CAL 4
	Instrument ID: UV11									

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: Encina Wastewater Authority
Job ID: 570-127214-1
Project/Site: 2023 Annual Meadowlark Effluent
SDG: Priority Pollutant Scan

Laboratory: Eurofins Calscience

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-23

Method Summary

Client: Encina Wastewater Authority
Project/Site: 2023 Annual Meadowlark Effluent

Job ID: 570-127214-1
SDG: Priority Pollutant Scan

Method	Method Description	Protocol	Laboratory
200.7 Rev 4.4	Metals (ICP)	EPA	EET CAL 4
200.8	Metals (ICP/MS)	EPA	EET CAL 4
245.1	Mercury (CVAA)	EPA	EET CAL 4
SM 4500 CN E	Cyanide, Total	SM	EET CAL 4
200.7	Preparation, Total Recoverable Metals	EPA	EET CAL 4
200.8	Preparation, Total Recoverable Metals	EPA	EET CAL 4
245.1	Preparation, Mercury	EPA	EET CAL 4
SM 4500 CN C	Cyanide, Distillation	SM	EET CAL 4

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

Client: Encina Wastewater Authority
Project/Site: 2023 Annual Meadowlark Effluent

Job ID: 570-127214-1
SDG: Priority Pollutant Scan

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-127214-1	Meadowlark Failsafe	Water	02/08/23 07:00	02/09/23 19:30

Eurofins Calscience Irvine
17461 Derian Ave Suite 100
Irvine CA 92614-5817
Phone (949) 261-1022 Fax (949) 260-3297

Chain of Custody Record

eurofins Environment Testing America

127214

Client Information	Sampler: C.D. Chris Deering	Lab PM: Janice Hsu	Carrier Tracking No(s):	COC No:
Client Contact: Rachael Morgan	Phone: 760.268.8801	E-Mail: Janice.Hsu@Eurofinset.com		Page: Page 1 of 1
Company: Encina Wastewater Authority				Job #:
Address: 6200 Avenida Encinas	Due Date Requested			
City: Carlsbad	TAT Requested (days): 10 Working Days			
State, Zip: California, 92011				
Phone: 760-268-8801	PO #: 20230040			
Email: rachael@encinajpa.com	WO #:			
Project Name: 2023 Annual Meadowlark Effluent Priority Pollutant Scan	Project #:			

570-127214 Chain of Custody

Analysis Requested

I - Ice; J - DI Water; K - EDTA; L - EDA; O - Acetone; V - MCAA; W - pH 4-5; Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Mercury 245.1	Total Cyanide SM 4500 CN-E	200.8 Selenium, Thallium, Lead	200.8 Low Level Be	200.7 Ag	200 7 Copper	Total Number of containers	Special Instructions/Note:
Meadowlark Failsafe	2/7-8/23	0700 - 0700	C	WW			X						1	D
Meadowlark Failsafe	2/7-8/23	0700 - 0700	C	WW				X					1	B
Meadowlark Failsafe	2/7-8/23	0700 - 0700	C	WW					X				1	D
														* Please do not dilute any metals samples*
Meadowlark Failsafe	2/7-8/23	0700 - 0700	C	WW						X			1	D
														* Please do not dilute any metals samples*
Meadowlark Failsafe	2/7-8/23	0700 - 0700	C	WW							X		1	D
														* Please do not dilute any metals samples*
Meadowlark Failsafe	2/7-8/23	0700 - 0700	C	WW								X	1	D

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III, IV, Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	2/9/23 1422	EWA	William Rivera	2/9/23 1422	EC
2	William Rivera	2/9/23 1930	EC	[signature]	2-9-23 19:30	EC
3		Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No

Cooler Temperature(s) °C and Other Remarks: 1.1/1.0 SC12

Ver: 08/04/2016

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2/28/2023

Login Sample Receipt Checklist

Client: Encina Wastewater Authority

Job Number: 570-127214-1
SDG Number: Priority Pollutant Scan

Login Number: 127214
List Number: 1
Creator: Hsu, Janice

List Source: Eurofins Calscience

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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.	True	
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	

SAMPLE RESULTS REPORT

Report Date : 12/28/2023

REPORT TO	ELAP Certification No. 1441 231213002
Vallecitos Water District 201 Vallecitos de Oro San Marcos, CA 92069 Attn: Matt Wiese	

Sample ID	Sample Point	Analyte Name	Result	Units	Method Reference
AB53869	**Meadowlark Effluent**			**Collected: 06/07/2023**	**Time: 07:00**
		LOW LEVEL Lead	**<0.0002**	mg/L	EPA 200.8
		LOW LEVEL Copper	**0.0055**	mg/L	EPA 200.8

Certified By: Rachael Morgan **Date:** 12.28.23

Rachael Morgan, Laboratory Manager

SAMPLE RESULTS REPORT

Report Date : 12/28/2023

REPORT TO	Qualifier: J is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. Per EUROFINS

Sample ID	Sample Point	Analyte Name	Result	Units	Method Reference
AB47180	Meadowlark Effluent priority pollutants			Collected: 02/08/2023	Time: 07:00
		Zinc by ICP	0.030	mg/L	EPA 200.7
		Silver by ICP	<0.010	mg/L	EPA 200.7
		Nickel by ICP	<0.009	mg/L	EPA 200.7
		Molybdenum by ICP	0.005 J	mg/L	EPA 200.7
		Mercury	<0.00020	mg/L	EPA 245.1
		LOW LEVEL THALLIUM	<0.001	mg/L	EPA 200.8
		LOW LEVEL Selenium	0.00089 J	mg/L	200.8
		LOW LEVEL BERYLLIUM	<0.0005	mg/L	EPA 200.8
		Chromium by ICP	<0.009	mg/L	EPA 200.7
		Cadmium by ICP	<0.009	mg/L	EPA 200.7
		Arsenic by ICP	<0.008	mg/L	EPA 200.7
		Antimony by ICP	<0.013	mg/L	EPA 200.7

Certified By: Rachael Morgan **Date:** 12.28.23

Rachael Morgan, Laboratory Manager

SAMPLE RESULTS REPORT

Report Date : 12/28/2023

REPORT TO	ELAP Certification No. 1441 230314002

Sample ID	Sample Point	Analyte Name	Result	Units	Method Reference
AB47180	**Meadowlark Effluent priority pollutants**			**Collected: 02/08/2023**	**Time: 07:00**
		Zinc by ICP	**0.030**	mg/L	EPA 200.7
		Silver by ICP	**<0.010**	mg/L	EPA 200.7
		Nickel by ICP	**<0.009**	mg/L	EPA 200.7
		Molybdenum by ICP	**0.005 J**	mg/L	EPA 200.7
		Mercury	**<0.00020**	mg/L	EPA 245.1
		LOW LEVEL THALLIUM	**<0.001**	mg/L	EPA 200.8
		LOW LEVEL Selenium	**0.00089 J**	mg/L	200.8
		LOW LEVEL Lead	**0.00012 J**	mg/L	EPA 200.8
		LOW LEVEL BERYLLIUM	**<0.0005**	mg/L	EPA 200.8
		Copper by ICP	**0.010 J**	mg/L	EPA 200.7
		Chromium by ICP	**<0.009**	mg/L	EPA 200.7
		Cadmium by ICP	**<0.009**	mg/L	EPA 200.7
		Arsenic by ICP	**<0.008**	mg/L	EPA 200.7
		Antimony by ICP	**<0.013**	mg/L	EPA 200.7

Certified By: Rachael Morgan **Date:** 12-28-23

Rachael Morgan, Laboratory Manager

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Rachael Morgan
Encina Wastewater Authority
6200 Avenida Encinas
Carlsbad, California 92011

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JOB DESCRIPTION

2023 Annual Meadowlark Influent
SDG NUMBER Priority Pollutant Scan

JOB NUMBER

570-127217-1

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin CA 92780

See page two for job notes and contact information.

Job Notes

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The data in the report relate to the field sample(s) as received by the laboratory and associated QC. All results have been reviewed and have been found to be compliant with laboratory and accreditation requirements, with the exception of the noted deviation(s). For questions, please contact the Project Manager.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Calscience Project Manager.

Authorization

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2/28/2023 4:44:19 PM

Authorized for release by
Janice Hsu, Project Manager I
Janice.Hsu@et.eurofinsus.com
(657)210-6359

Table of Contents

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
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

Case Narrative

Client: Encina Wastewater Authority
Project/Site: 2023 Annual Meadowlark Influent

Job ID: 570-127217-1
SDG: Priority Pollutant Scan

Job ID: 570-127217-1

Laboratory: Eurofins Calscience

Narrative

Job Narrative
570-127217-1

Receipt
The sample was received on 2/9/2023 7:30 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C

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

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

Detection Summary

Client: Encina Wastewater Authority
Project/Site: 2023 Annual Meadowlark Influent

Job ID: 570-127217-1
SDG: Priority Pollutant Scan

Client Sample ID: Meadowlark Influent **Lab Sample ID: 570-127217-1**

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Encina Wastewater Authority
Project/Site: 2023 Annual Meadowlark Influent

Job ID: 570-127217-1
SDG: Priority Pollutant Scan

Method: EPA 245.1 - Mercury (CVAA)

Client Sample ID: Meadowlark Influent
Date Collected: 02/08/23 07:00
Date Received: 02/09/23 19:30

Lab Sample ID: 570-127217-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		02/14/23 18:15	02/15/23 18:48	1

Client: Encina Wastewater Authority
Project/Site: 2023 Annual Meadowlark Influent

Job ID: 570-127217-1
SDG: Priority Pollutant Scan

General Chemistry

Client Sample ID: Meadowlark Influent
Date Collected: 02/08/23 07:00
Date Received: 02/09/23 19:30

Lab Sample ID: 570-127217-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SM 4500 CN E)	ND		0.025	0.0080	mg/L		02/21/23 14:42	02/21/23 16:47	1

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 570-303811/1-A
Matrix: Water
Analysis Batch: 304145

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 303811

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		02/14/23 18:15	02/15/23 21:29	1

Lab Sample ID: LCS 570-303811/2-A
Matrix: Water
Analysis Batch: 304145

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 303811

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			0.00800	0.00752		mg/L		94	85 - 115		

Lab Sample ID: LCSD 570-303811/3-A
Matrix: Water
Analysis Batch: 304145

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 303811

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury			0.00800	0.00745		mg/L		93	85 - 115	1	10

Lab Sample ID: 570-124794-D-1-E MS
Matrix: Water
Analysis Batch: 304145

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 303811

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	ND		0.00800	0.00721		mg/L		90	85 - 115		

Lab Sample ID: 570-124794-D-1-F MSD
Matrix: Water
Analysis Batch: 304145

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 303811

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.00800	0.00745		mg/L		93	85 - 115	3	10

Method: SM 4500 CN E - Cyanide, Total

Lab Sample ID: MB 570-305719/1-A
Matrix: Water
Analysis Batch: 305753

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 305719

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.025	0.0080	mg/L		02/21/23 14:42	02/21/23 16:46	1

Lab Sample ID: LCS 570-305719/2-A
Matrix: Water
Analysis Batch: 305753

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 305719

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			0.200	0.194		mg/L		97	80 - 120		

Method: SM 4500 CN E - Cyanide, Total (Continued)

Lab Sample ID: LCSD 570-305719/3-A
Matrix: Water
Analysis Batch: 305753

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 305719

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total			0.200	0.190		mg/L		95	80 - 120	2	20

Lab Sample ID: 570-126747-C-1-B MS
Matrix: Water
Analysis Batch: 305753

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 305719

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total	ND		0.200	0.198		mg/L		99	74 - 115		

Lab Sample ID: 570-126747-C-1-C MSD
Matrix: Water
Analysis Batch: 305753

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 305719

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	ND		0.200	0.202		mg/L		101	74 - 115	2	20

QC Association Summary

Client: Encina Wastewater Authority
Project/Site: 2023 Annual Meadowlark Influent

Job ID: 570-127217-1
SDG: Priority Pollutant Scan

Metals

Prep Batch: 303811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-127217-1	Meadowlark Influent	Total/NA	Water	245.1	
MB 570-303811/1-A	Method Blank	Total/NA	Water	245.1	
LCS 570-303811/2-A	Lab Control Sample	Total/NA	Water	245.1	
LCSD 570-303811/3-A	Lab Control Sample Dup	Total/NA	Water	245.1	
570-124794-D-1-E MS	Matrix Spike	Total/NA	Water	245.1	
570-124794-D-1-F MSD	Matrix Spike Duplicate	Total/NA	Water	245.1	

Analysis Batch: 304145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-127217-1	Meadowlark Influent	Total/NA	Water	245.1	303811
MB 570-303811/1-A	Method Blank	Total/NA	Water	245.1	303811
LCS 570-303811/2-A	Lab Control Sample	Total/NA	Water	245.1	303811
LCSD 570-303811/3-A	Lab Control Sample Dup	Total/NA	Water	245.1	303811
570-124794-D-1-E MS	Matrix Spike	Total/NA	Water	245.1	303811
570-124794-D-1-F MSD	Matrix Spike Duplicate	Total/NA	Water	245.1	303811

General Chemistry

Prep Batch: 305719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-127217-1	Meadowlark Influent	Total/NA	Water	SM 4500 CN C	
MB 570-305719/1-A	Method Blank	Total/NA	Water	SM 4500 CN C	
LCS 570-305719/2-A	Lab Control Sample	Total/NA	Water	SM 4500 CN C	
LCSD 570-305719/3-A	Lab Control Sample Dup	Total/NA	Water	SM 4500 CN C	
570-126747-C-1-B MS	Matrix Spike	Total/NA	Water	SM 4500 CN C	
570-126747-C-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 CN C	

Analysis Batch: 305753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-127217-1	Meadowlark Influent	Total/NA	Water	SM 4500 CN E	305719
MB 570-305719/1-A	Method Blank	Total/NA	Water	SM 4500 CN E	305719
LCS 570-305719/2-A	Lab Control Sample	Total/NA	Water	SM 4500 CN E	305719
LCSD 570-305719/3-A	Lab Control Sample Dup	Total/NA	Water	SM 4500 CN E	305719
570-126747-C-1-B MS	Matrix Spike	Total/NA	Water	SM 4500 CN E	305719
570-126747-C-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 CN E	305719

Lab Chronicle

Client: Encina Wastewater Authority
Project/Site: 2023 Annual Meadowlark Influent

Job ID: 570-127217-1
SDG: Priority Pollutant Scan

Client Sample ID: Meadowlark Influent

Date Collected: 02/08/23 07:00
Date Received: 02/09/23 19:30

Lab Sample ID: 570-127217-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	245.1			25 mL	50 mL	303811	02/14/23 18:15	CS5Z	EET CAL 4
Total/NA	Analysis	245.1		1			304145	02/15/23 18:48	C0YH	EET CAL 4
	Instrument ID: HG7									
Total/NA	Prep	SM 4500 CN C			50 mL	50 mL	305719	02/21/23 14:42	GG0B	EET CAL 4
Total/NA	Analysis	SM 4500 CN E		1	5 mL	5 mL	305753	02/21/23 16:47	GG0B	EET CAL 4
	Instrument ID: UV11									

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: Encina Wastewater Authority
Job ID: 570-127217-1
Project/Site: 2023 Annual Meadowlark Influent
SDG: Priority Pollutant Scan

Laboratory: Eurofins Calscience

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-23

Method Summary

Client: Encina Wastewater Authority
Project/Site: 2023 Annual Meadowlark Influent

Job ID: 570-127217-1
SDG: Priority Pollutant Scan

Method	Method Description	Protocol	Laboratory
245.1	Mercury (CVAA)	EPA	EET CAL 4
SM 4500 CN E	Cyanide, Total	SM	EET CAL 4
245.1	Preparation, Mercury	EPA	EET CAL 4
SM 4500 CN C	Cyanide, Distillation	SM	EET CAL 4

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

Client: Encina Wastewater Authority
Project/Site: 2023 Annual Meadowlark Influent

Job ID: 570-127217-1
SDG: Priority Pollutant Scan

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-127217-1	Meadowlark Influent	Water	02/08/23 07:00	02/09/23 19:30

Eurofins Calscience Irvine
17461 Derian Ave Suite 100
Irvine CA 92614-5817
Phone (949) 261-1022 Fax (949) 260-3297

Chain of Custody Record

eurofins Environment Testing America

127217

Client Information	Sampler: CD	Lab PM: Janice Hsu	Carrier Tracking No(s):	COC No:
Client Contact: Rachael Morgan	Phone: 760.268.8801	E-Mail: Janice.Hsu@Eurofinset.com		Page: Page 1 of 1
Company: Encina Wastewater Authority				Job #:
Address: 6200 Avenida Encinas	Due Date Requested:			
City: Carlsbad	TAT Requested (days): 10 Working Days			
State, Zip: California, 92011				
Phone: 260-268-8801	PO #: 20230040			
Email: rachael@encinajpa.com	WO #:			
Project Name: 2023 Annual Meadowlark Influent Priority Pollutant Scan	Project #:			

Analysis Requested

Preservation Codes.

A - HCL	M - Hexane
B - NaOH	N None
C - Zn Acetate	O - AsNaO2
D Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I Ice	U - Acetone
J - DI Water	V MCAA
K - EDTA	W pH 4-5
L - EDA	Z other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Mercury 245.1	Total Cyanide SM 4500 CN-E	Total Number of containers	Special Instructions/Note:
Meadowlark Influent	2/7-8/23	0700 - 0700	C	WW			X		1	D
Meadowlark Influent	2/7-8/23	0700 - 0700	C	WW				X	1	B

570-127217 Chain of Custody

Page 10 of 17

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II III, IV, Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	2/9/23 14:22	EWA	William Rivera	2/9/23 1422	EC
2	William Rivera	2/9/23 1930	EC	[signature]	2-9-23 19:30	EC
3						

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 1.1/1.0° SC12

2/28/2023

Ver: 08/04/2016

Login Sample Receipt Checklist

Client: Encina Wastewater Authority

Job Number: 570-127217-1
SDG Number: Priority Pollutant Scan

Login Number: 127217
List Number: 1
Creator: Hsu, Janice

List Source: Eurofins Calscience

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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.	True	
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	

WECK LABORATORIES, INC.

Certificate of Analysis

FINAL REPORT

Work Orders:	3B09043	**Report Date:**	3/15/2023
		Received Date:	02/09/2023
Project:	2023 Annual Meadowlark Influent Priority Pollutant Scan	**Turnaround Time:**	Normal
		Phones:	(760) 438-3941
		Fax:	
Attn:	Rachael Morgan	**P.O. #:**	
Client:	Encina Wastewater Authority 6200 Avenida Encinas Carlsbad, CA 92011	**Billing Code:**	

DoD-ELAP ANAB #ADE-2882 • DoD-ISO ANAB # • ELAP-CA #1132 • EPA-UCMR #CA00211 • ISO17025 ANAB #L2457.01 • LACSD #10143

This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.

Dear Rachael Morgan,

Enclosed are the results of analyses for samples received 2/09/23 with the Chain-of-Custody document. The samples were received in good condition, at 2.9 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

Reviewed by:

Kim G. Tu
Project Manager

14859 Clark Avenue,City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634
www.wecklabs.com

Encina Wastewater Authority
6200 Avenida Encinas
Carlsbad, CA 92011

Project Number: 2023 Annual Meadowlark Influent Priority Pollutant Scan

Project Manager: Rachael Morgan

Reported: 03/15/2023 08:47

Sample Summary

Sample Name	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
Meadowlark Influent	CD	3B09043-01	Water	02/08/23 07:00	

Encina Wastewater Authority
6200 Avenida Encinas
Carlsbad, CA 92011

Project Number: 2023 Annual Meadowlark Influent Priority Pollutant Scan

Project Manager: Rachael Morgan

Reported: 03/15/2023 08:47

Sample Results

Sample: Meadowlark Influent
3B09043-01 (Water)

Sampled: 02/08/23 7:00 by CD

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Acid and Base/Neutral Extractables by GC/MS						
Method: EPA 625.1		**Instr:** GCMS06				
Batch ID: W3B0913 **Preparation:** EPA 625/L-L SF		**Prepared:** 02/10/23 08:39				**Analyst:** rmr
1,2,4-Trichlorobenzene	ND	20	ug/l	1	03/07/23	M-02
1,2-Dichlorobenzene	ND	20	ug/l	1	03/07/23	M-02
1,2-Diphenylhydrazine/Azobenzene	ND	20	ug/l	1	03/07/23	M-02
1,3-Dichlorobenzene	ND	20	ug/l	1	03/07/23	M-02
1,4-Dichlorobenzene	ND	20	ug/l	1	03/07/23	M-02
2,4,6-Trichlorophenol	ND	20	ug/l	1	03/07/23	M-02
2,4-Dichlorophenol	ND	20	ug/l	1	03/07/23	M-02
2,4-Dimethylphenol	ND	20	ug/l	1	03/07/23	M-02
2,4-Dinitrophenol	ND	200	ug/l	1	03/07/23	M-02
2,4-Dinitrotoluene	ND	20	ug/l	1	03/07/23	M-02
2,6-Dinitrotoluene	ND	20	ug/l	1	03/07/23	M-02
2-Chloronaphthalene	ND	20	ug/l	1	03/07/23	M-02
2-Chlorophenol	ND	20	ug/l	1	03/07/23	M-02
2-Methyl-4,6-dinitrophenol	ND	100	ug/l	1	03/07/23	M-02
2-Nitrophenol	ND	20	ug/l	1	03/07/23	M-02
3,3'-Dichlorobenzidine	ND	100	ug/l	1	03/07/23	M-02
4-Bromophenyl phenyl ether	ND	20	ug/l	1	03/07/23	M-02
4-Chloro-3-methylphenol	ND	20	ug/l	1	03/07/23	M-02
4-Chlorophenyl phenyl ether	ND	20	ug/l	1	03/07/23	M-02
4-Nitrophenol	ND	100	ug/l	1	03/07/23	M-02
Acenaphthene	ND	20	ug/l	1	03/07/23	M-02
Acenaphthylene	ND	20	ug/l	1	03/07/23	M-02
Anthracene	ND	20	ug/l	1	03/07/23	M-02
Benzidine	ND	200	ug/l	1	03/07/23	M-02
Benzo (a) anthracene	ND	20	ug/l	1	03/07/23	M-02
Benzo (a) pyrene	ND	20	ug/l	1	03/07/23	M-02
Benzo (b) fluoranthene	ND	20	ug/l	1	03/07/23	M-02
Benzo (g,h,i) perylene	ND	40	ug/l	1	03/07/23	M-02
Benzo (k) fluoranthene	ND	20	ug/l	1	03/07/23	M-02
Bis(2-chloroethoxy)methane	ND	20	ug/l	1	03/07/23	M-02
Bis(2-chloroethyl)ether	ND	20	ug/l	1	03/07/23	M-02
Bis(2-chloroisopropyl)ether	ND	20	ug/l	1	03/07/23	M-02
Bis(2-ethylhexyl)phthalate	ND	100	ug/l	1	03/07/23	M-02
Butyl benzyl phthalate	ND	20	ug/l	1	03/07/23	M-02
Chrysene	ND	20	ug/l	1	03/07/23	M-02

Encina Wastewater Authority
6200 Avenida Encinas
Carlsbad, CA 92011

Project Number: 2023 Annual Meadowlark Influent Priority Pollutant Scan

Project Manager: Rachael Morgan

Reported: 03/15/2023 08:47

Sample Results

(Continued)

Sample: Meadowlark Influent
3B09043-01 (Water)

Sampled: 02/08/23 7:00 by CD

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Acid and Base/Neutral Extractables by GC/MS (Continued)						
Method: EPA 625.1		**Instr:** GCMS06				
Batch ID: W3B0913 **Preparation:** EPA 625/L-L SF		**Prepared:** 02/10/23 08:39				**Analyst:** rmr
Dibenzo (a,h) anthracene	ND	40	ug/l	1	03/07/23	M-02
Diethyl phthalate	ND	20	ug/l	1	03/07/23	M-02
Dimethyl phthalate	ND	20	ug/l	1	03/07/23	M-02
Di-n-butyl phthalate	ND	20	ug/l	1	03/07/23	M-02
Di-n-octyl phthalate	ND	20	ug/l	1	03/07/23	M-02
Fluoranthene	ND	20	ug/l	1	03/07/23	M-02
Fluorene	ND	20	ug/l	1	03/07/23	M-02
Hexachlorobenzene	ND	20	ug/l	1	03/07/23	M-02
Hexachlorobutadiene	ND	20	ug/l	1	03/07/23	M-02
Hexachlorocyclopentadiene	ND	100	ug/l	1	03/07/23	M-02
Hexachloroethane	ND	20	ug/l	1	03/07/23	M-02
Indeno (1,2,3-cd) pyrene	ND	40	ug/l	1	03/07/23	M-02
Isophorone	ND	20	ug/l	1	03/07/23	M-02
Naphthalene	ND	20	ug/l	1	03/07/23	M-02
Nitrobenzene	ND	20	ug/l	1	03/07/23	M-02
N-Nitrosodimethylamine	ND	20	ug/l	1	03/07/23	M-02
N-Nitrosodi-n-propylamine	ND	20	ug/l	1	03/07/23	M-02
N-Nitrosodiphenylamine	ND	20	ug/l	1	03/07/23	M-02
Pentachlorophenol	ND	20	ug/l	1	03/07/23	M-02
Phenanthrene	ND	20	ug/l	1	03/07/23	M-02
Phenol	ND	20	ug/l	1	03/07/23	M-02
Pyrene	ND	20	ug/l	1	03/07/23	M-02
Surrogate(s)						
2,4,6-Tribromophenol	*62%*	*Conc: 499*	*25-120*		*03/07/23*	
2-Fluorobiphenyl	*62%*	*Conc: 248*	*22-120*		*03/07/23*	
2-Fluorophenol	*35%*	*Conc: 283*	*17-120*		*03/07/23*	
Nitrobenzene-d5	*69%*	*Conc: 276*	*47-120*		*03/07/23*	
Phenol-d5	*25%*	*Conc: 201*	*12-120*		*03/07/23*	
Terphenyl-d14	*76%*	*Conc: 303*	*44-129*		*03/07/23*	
Chlorinated Pesticides and/or PCBs by GC/ECD						
Method: EPA 608.3		**Instr:** GC07				
Batch ID: W3B1238 **Preparation:** EPA 608/L-L SF		**Prepared:** 02/15/23 07:37				**Analyst:** RJG
4,4´-DDD	ND	0.50	ug/l	10	03/07/23	M-04
4,4´-DDE	ND	0.50	ug/l	10	03/07/23	M-04, Q-02
4,4´-DDT	ND	0.10	ug/l	10	03/07/23	M-04
Aldrin	ND	0.050	ug/l	10	03/07/23	M-04

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6200 Avenida Encinas
Carlsbad, CA 92011

Project Number: 2023 Annual Meadowlark Influent Priority Pollutant Scan

Project Manager: Rachael Morgan

Reported: 03/15/2023 08:47

Sample Results

(Continued)

Sample: Meadowlark Influent
3B09043-01 (Water)

Sampled: 02/08/23 7:00 by CD

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Chlorinated Pesticides and/or PCBs by GC/ECD (Continued)						
Method: EPA 608.3		**Instr:** GC07				
Batch ID: W3B1238 **Preparation:** EPA 608/L-L SF		**Prepared:** 02/15/23 07:37				**Analyst:** RJG
alpha-BHC	ND	0.10	ug/l	10	03/07/23	M-04
Aroclor 1016	ND	5.0	ug/l	10	03/07/23	M-04
Aroclor 1221	ND	5.0	ug/l	10	03/07/23	M-04
Aroclor 1232	ND	5.0	ug/l	10	03/07/23	M-04
Aroclor 1242	ND	5.0	ug/l	10	03/07/23	M-04
Aroclor 1248	ND	5.0	ug/l	10	03/07/23	M-04
Aroclor 1254	ND	5.0	ug/l	10	03/07/23	M-04
Aroclor 1260	ND	5.0	ug/l	10	03/07/23	M-04
beta-BHC	ND	0.050	ug/l	10	03/07/23	M-04
Chlordane (tech)	ND	1.0	ug/l	10	03/07/23	M-04
delta-BHC	ND	0.050	ug/l	10	03/07/23	M-04
Dieldrin	ND	0.10	ug/l	10	03/07/23	M-04
Endosulfan I	ND	0.20	ug/l	10	03/07/23	M-04
Endosulfan II	ND	0.10	ug/l	10	03/07/23	M-04
Endosulfan sulfate	ND	0.50	ug/l	10	03/07/23	M-04
Endrin	ND	0.10	ug/l	10	03/07/23	M-04
Endrin aldehyde	ND	0.10	ug/l	10	03/07/23	M-04
gamma-BHC (Lindane)	ND	0.20	ug/l	10	03/07/23	M-04
Heptachlor	ND	0.10	ug/l	10	03/07/23	M-04
Heptachlor epoxide	ND	0.10	ug/l	10	03/07/23	M-04
Toxaphene	ND	5.0	ug/l	10	03/07/23	M-04
Surrogate(s)						
Decachlorobiphenyl	*41% Conc: 0.0446*	*33-133*			*03/07/23*	
Tetrachloro-meta-xylene	*55% Conc: 0.0593*	*32-130*			*03/07/23*	
Volatile Organic Compounds by P&T and GC/MS						
Method: EPA 624.1		**Instr:** GCMS21				
Batch ID: W3B0861 **Preparation:** EPA 5030B		**Prepared:** 02/09/23 13:46				**Analyst:** ADM
1,1,1-Trichloroethane	ND	20	ug/l	20	02/10/23	M-05
1,1,2,2-Tetrachloroethane	ND	20	ug/l	20	02/10/23	M-05
1,1,2-Trichloroethane	ND	20	ug/l	20	02/10/23	M-05
1,1-Dichloroethane	ND	20	ug/l	20	02/10/23	M-05
1,1-Dichloroethene	ND	20	ug/l	20	02/10/23	M-05
1,2-Dichloroethane	ND	20	ug/l	20	02/10/23	M-05
1,2-Dichloropropane	ND	20	ug/l	20	02/10/23	M-05
2-Butanone	ND	100	ug/l	20	02/10/23	M-05
2-Chloroethyl vinyl ether	ND	20	ug/l	20	02/10/23	M-05

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Reported: 03/15/2023 08:47

Sample Results

(Continued)

Sample: Meadowlark Influent
3B09043-01 (Water)

Sampled: 02/08/23 7:00 by CD

(Continued)

Volatile Organic Compounds by P&T and GC/MS (Continued)

Method: EPA 624.1 **Instr:** GCMS21

Batch ID: W3B0861 **Preparation:** EPA 5030B **Prepared:** 02/09/23 13:46 **Analyst:** ADM

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
2-Hexanone	ND	100	ug/l	20	02/10/23	M-05
4-Methyl-2-pentanone	ND	100	ug/l	20	02/10/23	M-05
Acetone	ND	100	ug/l	20	02/10/23	M-05
Acrolein	ND	100	ug/l	20	02/10/23	M-05
Acrylonitrile	ND	40	ug/l	20	02/10/23	M-05
Benzene	ND	20	ug/l	20	02/10/23	M-05
Bromodichloromethane	ND	20	ug/l	20	02/10/23	M-05
Bromoform	ND	20	ug/l	20	02/10/23	M-05
Bromomethane	ND	20	ug/l	20	02/10/23	M-05
Carbon Disulfide	ND	20	ug/l	20	02/10/23	M-05
Carbon tetrachloride	ND	20	ug/l	20	02/10/23	M-05
Chlorobenzene	ND	20	ug/l	20	02/10/23	M-05
Chloroethane	ND	20	ug/l	20	02/10/23	M-05
Chloroform	ND	20	ug/l	20	02/10/23	M-05
Chloromethane	ND	20	ug/l	20	02/10/23	M-05
cis-1,3-Dichloropropene	ND	20	ug/l	20	02/10/23	M-05
Dibromochloromethane	ND	20	ug/l	20	02/10/23	M-05
Dichlorodifluoromethane (Freon 12)	ND	20	ug/l	20	02/10/23	M-05
Ethylbenzene	ND	20	ug/l	20	02/10/23	M-05
m-Dichlorobenzene	ND	20	ug/l	20	02/10/23	M-05
Methyl tert-butyl ether (MTBE)	ND	20	ug/l	20	02/10/23	M-05
Methylene chloride	ND	20	ug/l	20	02/10/23	M-05
o-Dichlorobenzene	ND	20	ug/l	20	02/10/23	M-05
p-Dichlorobenzene	ND	20	ug/l	20	02/10/23	M-05
Tetrachloroethene	ND	20	ug/l	20	02/10/23	M-05
Toluene	ND	20	ug/l	20	02/10/23	M-05
trans-1,2-Dichloroethene	ND	20	ug/l	20	02/10/23	M-05
trans-1,3-Dichloropropene	ND	20	ug/l	20	02/10/23	M-05
Trichloroethene	ND	20	ug/l	20	02/10/23	M-05
Trichlorofluoromethane	ND	20	ug/l	20	02/10/23	M-05
Vinyl chloride	ND	20	ug/l	20	02/10/23	M-05

Surrogate(s)

1,2-Dichloroethane-d4	*110%*	*Conc: 54.8*	*82-125*	*02/10/23*
4-Bromofluorobenzene	*95%*	*Conc: 47.7*	*88-108*	*02/10/23*
Toluene-d8	*101%*	*Conc: 50.3*	*92-112*	*02/10/23*

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Sample Results

(Continued)

Sample: Meadowlark Influent

3B09043-01 (Water)

Sampled: 02/08/23 7:00 by CD

(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Volatile Organic Compounds by P&T and GC/MS (Continued)						
Method: EPA 624.1			**Instr:** GCMS21			
Batch ID: W3B0861	**Preparation:** EPA 5030B		**Prepared:** 02/09/23 13:46			**Analyst:** ADM

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Project Number: 2023 Annual Meadowlark Influent Priority Pollutant Scan

Project Manager: Rachael Morgan

Reported: 03/15/2023 08:47

Sample Results PACE-MN

Sample: Meadowlark Influent
3B09043-01 (Water)

Sampled: 02/08/23 7:00 by CD

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Dioxins and Furans by Isotope Dilution HRGC/HRMS							
Method: SW8290	**Batch ID:** 34865		**Prepared:** 03/02/23 11:02			**Analyst:** JRH	
1,2,3,4,6,7,8-HpCDD	ND		51	pg/L	1	03/05/23	
1,2,3,4,6,7,8-HpCDF	ND		51	pg/L	1	03/05/23	
1,2,3,4,7,8,9-HpCDF	ND		51	pg/L	1	03/05/23	
1,2,3,4,7,8-HxCDD	ND		51	pg/L	1	03/05/23	
1,2,3,4,7,8-HxCDF	ND		51	pg/L	1	03/05/23	
1,2,3,6,7,8-HxCDD	ND		51	pg/L	1	03/05/23	
1,2,3,6,7,8-HxCDF	ND		51	pg/L	1	03/05/23	
1,2,3,7,8,9-HxCDD	ND		51	pg/L	1	03/05/23	
1,2,3,7,8,9-HxCDF	ND		51	pg/L	1	03/05/23	
1,2,3,7,8-PeCDD	ND		51	pg/L	1	03/05/23	
1,2,3,7,8-PeCDF	ND		51	pg/L	1	03/05/23	
2,3,4,6,7,8-HxCDF	ND		51	pg/L	1	03/05/23	
2,3,4,7,8-PeCDF	ND		51	pg/L	1	03/05/23	
2,3,7,8-TCDD	ND		10	pg/L	1	03/05/23	
2,3,7,8-TCDF	ND		10	pg/L	1	03/05/23	
OCDD	ND		100	pg/L	1	03/05/23	
OCDF	ND		100	pg/L	1	03/05/23	
Total HpCDD	ND		51	pg/L	1	03/05/23	
Total HpCDF	ND		51	pg/L	1	03/05/23	
Total HxCDD	ND		51	pg/L	1	03/05/23	
Total HxCDF	ND		51	pg/L	1	03/05/23	
Total PeCDD	ND		51	pg/L	1	03/05/23	
Total PeCDF	ND		51	pg/L	1	03/05/23	
Total TCDD	ND		10	pg/L	1	03/05/23	
Total TCDF	ND		10	pg/L	1	03/05/23	
Surrogate(s)							
1,2,3,4,6,7,8-HpCDD-13C	*58%*		*40.0-135.0*			*03/05/23*	
1,2,3,4,6,7,8-HpCDF-13C	*53%*		*40.0-135.0*			*03/05/23*	
1,2,3,4,7,8,9-HpCDF-13C	*47%*		*40.0-135.0*			*03/05/23*	
1,2,3,4,7,8-HxCDD-13C	*58%*		*40.0-135.0*			*03/05/23*	
1,2,3,4,7,8-HxCDF-13C	*36%*		*40.0-135.0*			*03/05/23*	*P*
1,2,3,4-TCDD-13C	*67%*		*40.0-135.0*			*03/05/23*	
1,2,3,6,7,8-HxCDD-13C	*61%*		*40.0-135.0*			*03/05/23*	
1,2,3,6,7,8-HxCDF-13C	*59%*		*40.0-135.0*			*03/05/23*	
1,2,3,7,8,9-HxCDD-13C	*58%*		*40.0-135.0*			*03/05/23*	
1,2,3,7,8,9-HxCDF-13C	*44%*		*40.0-135.0*			*03/05/23*	
1,2,3,7,8-PeCDD-13C	*74%*		*40.0-135.0*			*03/05/23*	
1,2,3,7,8-PeCDF-13C	*70%*		*40.0-135.0*			*03/05/23*	

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Project Manager: Rachael Morgan

Reported: 03/15/2023 08:47

Sample Results PACE-MN (Continued)

Sample: Meadowlark Influent
3B09043-01 (Water)

Sampled: 02/08/23 7:00 by CD
(Continued)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Dioxins and Furans by Isotope Dilution HRGC/HRMS (Continued)							
2,3,4,6,7,8-HxCDF-13C	*61%*		*40.0-135.0*			*03/05/23*	
2,3,4,7,8-PeCDF-13C	*71%*		*40.0-135.0*			*03/05/23*	
2,3,7,8-TCDD-13C	*61%*		*40.0-135.0*			*03/05/23*	
2,3,7,8-TCDD-37Cl4	*73%*		*40.0-135.0*			*03/05/23*	
2,3,7,8-TCDF-13C	*65%*		*40.0-135.0*			*03/05/23*	
OCDD-13C	*47%*		*40.0-135.0*			*03/05/23*	

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Project Manager: Rachael Morgan

Reported: 03/15/2023 08:47

Quality Control Results

Dioxins and Furans by Isotope Dilution HRGC/HRMS

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: 34865 - SW8290										
BLK (BLANK-104384)				**Prepared: 03/02/23 Analyzed: 03/07/23**						
1,2,3,4,6,7,8-HpCDD	ND	51	pg/L							
1,2,3,4,6,7,8-HpCDF	ND	51	pg/L							
1,2,3,4,7,8,9-HpCDF	ND	51	pg/L							
1,2,3,4,7,8-HxCDD	ND	51	pg/L							
1,2,3,4,7,8-HxCDF	ND	51	pg/L							
1,2,3,6,7,8-HxCDD	ND	51	pg/L							
1,2,3,6,7,8-HxCDF	ND	51	pg/L							
1,2,3,7,8,9-HxCDD	ND	51	pg/L							
1,2,3,7,8,9-HxCDF	ND	51	pg/L							
1,2,3,7,8-PeCDD	ND	51	pg/L							
1,2,3,7,8-PeCDF	ND	51	pg/L							
2,3,4,6,7,8-HxCDF	ND	51	pg/L							
2,3,4,7,8-PeCDF	ND	51	pg/L							
2,3,7,8-TCDD	ND	10	pg/L							
2,3,7,8-TCDF	ND	10	pg/L							
OCDD	ND	100	pg/L							
OCDF	ND	100	pg/L							
Total HpCDD	ND	51	pg/L							
Total HpCDF	ND	51	pg/L							
Total HxCDD	ND	51	pg/L							
Total HxCDF	ND	51	pg/L							
Total PeCDD	ND	51	pg/L							
Total PeCDF	ND	51	pg/L							
Total TCDD	ND	10	pg/L							
Total TCDF	ND	10	pg/L							
Surrogate(s)										
1,2,3,4,6,7,8-HpCDD-13C	*1500*		*pg/L*	*2000*		*74*	*40.0-135.0*			
1,2,3,4,6,7,8-HpCDF-13C	*1200*		*pg/L*	*2000*		*57*	*40.0-135.0*			
1,2,3,4,7,8,9-HpCDF-13C	*1500*		*pg/L*	*2000*		*72*	*40.0-135.0*			
1,2,3,4,7,8-HxCDD-13C	*1400*		*pg/L*	*2000*		*68*	*40.0-135.0*			
1,2,3,4,7,8-HxCDF-13C	*1600*		*pg/L*	*2000*		*78*	*40.0-135.0*			
1,2,3,6,7,8-HxCDD-13C	*1400*		*pg/L*	*2000*		*68*	*40.0-135.0*			
1,2,3,6,7,8-HxCDF-13C	*1600*		*pg/L*	*2000*		*78*	*40.0-135.0*			
1,2,3,7,8,9-HxCDF-13C	*1400*		*pg/L*	*2000*		*68*	*40.0-135.0*			
1,2,3,7,8-PeCDD-13C	*1700*		*pg/L*	*2000*		*83*	*40.0-135.0*			
1,2,3,7,8-PeCDF-13C	*1700*		*pg/L*	*2000*		*83*	*40.0-135.0*			
2,3,4,6,7,8-HxCDF-13C	*1500*		*pg/L*	*2000*		*76*	*40.0-135.0*			
2,3,4,7,8-PeCDF-13C	*1700*		*pg/L*	*2000*		*83*	*40.0-135.0*			
2,3,7,8-TCDD-13C	*1400*		*pg/L*	*2000*		*67*	*40.0-135.0*			

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Quality Control Results

(Continued)

Dioxins and Furans by Isotope Dilution HRGC/HRMS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: 34865 - SW8290 (Continued)										
BLK (BLANK-104384)				**Prepared: 03/02/23 Analyzed: 03/07/23**						
Surrogate(s)										
2,3,7,8-TCDF-13C	*1500*		*pg/L*	*2000*		*75*	*40.0-135.0*			
OCDD-13C	*2800*		*pg/L*	*4000*		*69*	*40.0-135.0*			
BS (LCS-104385)				**Prepared: 03/02/23 Analyzed: 03/05/23**						
1,2,3,4,6,7,8-HpCDD	880	50	pg/L	1000		88	70.0-130.0			
1,2,3,4,6,7,8-HpCDF	1000	50	pg/L	1000		105	70.0-130.0			
1,2,3,4,7,8,9-HpCDF	1000	50	pg/L	1000		100	70.0-130.0			
1,2,3,4,7,8-HxCDD	1100	50	pg/L	1000		113	70.0-130.0			
1,2,3,4,7,8-HxCDF	1000	50	pg/L	1000		101	70.0-130.0			
1,2,3,6,7,8-HxCDD	990	50	pg/L	1000		99	70.0-130.0			
1,2,3,6,7,8-HxCDF	1100	50	pg/L	1000		108	70.0-130.0			
1,2,3,7,8,9-HxCDD	1000	50	pg/L	1000		104	70.0-130.0			
1,2,3,7,8,9-HxCDF	1000	50	pg/L	1000		104	70.0-130.0			
1,2,3,7,8-PeCDD	970	50	pg/L	1000		97	70.0-130.0			
1,2,3,7,8-PeCDF	1000	50	pg/L	1000		100	70.0-130.0			
2,3,4,6,7,8-HxCDF	1100	50	pg/L	1000		110	70.0-130.0			
2,3,4,7,8-PeCDF	1100	50	pg/L	1000		107	70.0-130.0			
2,3,7,8-TCDD	220	10	pg/L	200		112	70.0-130.0			
2,3,7,8-TCDF	210	10	pg/L	200		104	70.0-130.0			
OCDD	1900	100	pg/L	2000		97	70.0-130.0			
OCDF	2300	100	pg/L	2000		114	70.0-130.0			
Surrogate(s)										
1,2,3,4,6,7,8-HpCDD-13C	*1500*		*pg/L*	*2000*		*73*	*40.0-135.0*			
1,2,3,4,6,7,8-HpCDF-13C	*1300*		*pg/L*	*2000*		*66*	*40.0-135.0*			
1,2,3,4,7,8,9-HpCDF-13C	*1300*		*pg/L*	*2000*		*67*	*40.0-135.0*			
1,2,3,4,7,8-HxCDD-13C	*1400*		*pg/L*	*2000*		*72*	*40.0-135.0*			
1,2,3,4,7,8-HxCDF-13C	*1700*		*pg/L*	*2000*		*86*	*40.0-135.0*			
1,2,3,6,7,8-HxCDD-13C	*1700*		*pg/L*	*2000*		*83*	*40.0-135.0*			
1,2,3,6,7,8-HxCDF-13C	*1800*		*pg/L*	*2000*		*88*	*40.0-135.0*			
1,2,3,7,8,9-HxCDF-13C	*1600*		*pg/L*	*2000*		*81*	*40.0-135.0*			
1,2,3,7,8-PeCDD-13C	*1700*		*pg/L*	*2000*		*85*	*40.0-135.0*			
1,2,3,7,8-PeCDF-13C	*1700*		*pg/L*	*2000*		*86*	*40.0-135.0*			
2,3,4,6,7,8-HxCDF-13C	*1700*		*pg/L*	*2000*		*85*	*40.0-135.0*			
2,3,4,7,8-PeCDF-13C	*1700*		*pg/L*	*2000*		*84*	*40.0-135.0*			
2,3,7,8-TCDD-13C	*1400*		*pg/L*	*2000*		*70*	*40.0-135.0*			
2,3,7,8-TCDF-13C	*1700*		*pg/L*	*2000*		*83*	*40.0-135.0*			
OCDD-13C	*2400*		*pg/L*	*4000*		*61*	*40.0-135.0*			

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6200 Avenida Encinas
Carlsbad, CA 92011

Project Number: 2023 Annual Meadowlark Influent Priority Pollutant Scan

Project Manager: Rachael Morgan

Reported: 03/15/2023 08:47

Quality Control Results

(Continued)

Acid and Base/Neutral Extractables by GC/MS

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W3B0913 - EPA 625.1										
Blank (W3B0913-BLK1)				**Prepared: 02/10/23 Analyzed: 03/06/23**						
1,2,4-Trichlorobenzene	ND	1.0	ug/l							
1,2-Dichlorobenzene	ND	1.0	ug/l							
1,2-Diphenylhydrazine/Azobenzene	ND	1.0	ug/l							
1,3-Dichlorobenzene	ND	1.0	ug/l							
1,4-Dichlorobenzene	ND	1.0	ug/l							
2,4,6-Trichlorophenol	ND	1.0	ug/l							
2,4-Dichlorophenol	ND	1.0	ug/l							
2,4-Dimethylphenol	ND	1.0	ug/l							
2,4-Dinitrophenol	ND	10	ug/l							
2,4-Dinitrotoluene	ND	1.0	ug/l							
2,6-Dinitrotoluene	ND	1.0	ug/l							
2-Chloronaphthalene	ND	1.0	ug/l							
2-Chlorophenol	ND	1.0	ug/l							
2-Methyl-4,6-dinitrophenol	ND	5.0	ug/l							
2-Nitrophenol	ND	1.0	ug/l							
3,3'-Dichlorobenzidine	ND	5.0	ug/l							
4-Bromophenyl phenyl ether	ND	1.0	ug/l							
4-Chloro-3-methylphenol	ND	1.0	ug/l							
4-Chlorophenyl phenyl ether	ND	1.0	ug/l							
4-Nitrophenol	ND	5.0	ug/l							
Acenaphthene	ND	1.0	ug/l							
Acenaphthylene	ND	1.0	ug/l							
Anthracene	ND	1.0	ug/l							
Benzidine	ND	5.0	ug/l							
Benzo (a) anthracene	ND	1.0	ug/l							
Benzo (a) pyrene	ND	1.0	ug/l							
Benzo (b) fluoranthene	ND	1.0	ug/l							
Benzo (g,h,i) perylene	ND	2.0	ug/l							
Benzo (k) fluoranthene	ND	1.0	ug/l							
Bis(2-chloroethoxy)methane	ND	1.0	ug/l							
Bis(2-chloroethyl)ether	ND	1.0	ug/l							
Bis(2-chloroisopropyl)ether	ND	1.0	ug/l							
Bis(2-ethylhexyl)phthalate	ND	4.0	ug/l							
Butyl benzyl phthalate	ND	1.0	ug/l							
Chrysene	ND	1.0	ug/l							
Dibenzo (a,h) anthracene	ND	2.0	ug/l							
Diethyl phthalate	ND	1.0	ug/l							
Dimethyl phthalate	ND	1.0	ug/l							
Di-n-butyl phthalate	ND	1.0	ug/l							

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Project Manager: Rachael Morgan

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Quality Control Results

(Continued)

Acid and Base/Neutral Extractables by GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W3B0913 - EPA 625.1 (Continued)										
Blank (W3B0913-BLK1)				**Prepared: 02/10/23 Analyzed: 03/06/23**						
Di-n-octyl phthalate	ND	1.0	ug/l							
Fluoranthene	ND	1.0	ug/l							
Fluorene	ND	1.0	ug/l							
Hexachlorobenzene	ND	1.0	ug/l							
Hexachlorobutadiene	ND	1.0	ug/l							
Hexachlorocyclopentadiene	ND	5.0	ug/l							
Hexachloroethane	ND	1.0	ug/l							
Indeno (1,2,3-cd) pyrene	ND	2.0	ug/l							
Isophorone	ND	1.0	ug/l							
Naphthalene	ND	1.0	ug/l							
Nitrobenzene	ND	1.0	ug/l							
N-Nitrosodimethylamine	ND	1.0	ug/l							
N-Nitrosodi-n-propylamine	ND	1.0	ug/l							
N-Nitrosodiphenylamine	ND	1.0	ug/l							
Pentachlorophenol	ND	1.0	ug/l							
Phenanthrene	ND	1.0	ug/l							
Phenol	ND	1.0	ug/l							
Pyrene	ND	1.0	ug/l							
Surrogate(s)										
2,4,6-Tribromophenol	*27.8*		*ug/l*	*40.0*		*69*	*25-120*			
2-Fluorobiphenyl	*13.7*		*ug/l*	*20.0*		*68*	*22-120*			
2-Fluorophenol	*19.1*		*ug/l*	*40.0*		*48*	*17-96*			
Nitrobenzene-d5	*16.5*		*ug/l*	*20.0*		*82*	*47-120*			
Phenol-d5	*12.6*		*ug/l*	*40.0*		*31*	*12-70*			
Terphenyl-d14	*16.5*		*ug/l*	*20.0*		*83*	*44-129*			
LCS (W3B0913-BS1)				**Prepared: 02/10/23 Analyzed: 03/06/23**						
1,2,4-Trichlorobenzene	17.9	1.0	ug/l	20.0		90	57-130			
1,2-Dichlorobenzene	19.1	1.0	ug/l	20.0		95	57-120			
1,3-Dichlorobenzene	16.7	1.0	ug/l	20.0		84	55-120			
1,4-Dichlorobenzene	18.7	1.0	ug/l	20.0		93	55-120			
2,4,6-Trichlorophenol	18.4	1.0	ug/l	20.0		92	52-129			
2,4-Dichlorophenol	18.7	1.0	ug/l	20.0		94	53-122			
2,4-Dimethylphenol	16.8	1.0	ug/l	20.0		84	42-119			
2,4-Dinitrophenol	20.3	10	ug/l	20.0		102	0.1-173			
2,4-Dinitrotoluene	19.8	1.0	ug/l	20.0		99	48-127			
2,6-Dinitrotoluene	18.0	1.0	ug/l	20.0		90	68-137			
2-Chloronaphthalene	18.0	1.0	ug/l	20.0		90	65-118			
2-Chlorophenol	17.5	1.0	ug/l	20.0		88	36-120			
2-Methyl-4,6-dinitrophenol	19.6	5.0	ug/l	20.0		98	53-130			

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Quality Control Results

(Continued)

Acid and Base/Neutral Extractables by GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W3B0913 - EPA 625.1 (Continued)										
LCS (W3B0913-BS1)				**Prepared: 02/10/23**	**Analyzed: 03/06/23**					
2-Nitrophenol	20.1	1.0	ug/l	20.0		101	45-167			
3,3'-Dichlorobenzidine	10.9	5.0	ug/l	20.0		55	8-213			
4-Bromophenyl phenyl ether	17.9	1.0	ug/l	20.0		89	65-120			
4-Chloro-3-methylphenol	18.7	1.0	ug/l	20.0		93	41-128			
4-Chlorophenyl phenyl ether	16.7	1.0	ug/l	20.0		84	38-145			
4-Nitrophenol	7.19	5.0	ug/l	20.0		36	13-129			
Acenaphthene	19.4	1.0	ug/l	20.0		97	60-132			
Acenaphthylene	19.4	1.0	ug/l	20.0		97	54-126			
Anthracene	18.8	1.0	ug/l	20.0		94	43-120			
Benzo (a) anthracene	19.4	1.0	ug/l	20.0		97	42-133			
Benzo (a) pyrene	22.6	1.0	ug/l	20.0		113	32-148			
Benzo (b) fluoranthene	21.1	1.0	ug/l	20.0		105	42-140			AN-IP
Benzo (g,h,i) perylene	21.5	2.0	ug/l	20.0		108	0.1-195			
Benzo (k) fluoranthene	19.6	1.0	ug/l	20.0		98	25-146			AN-IP
Bis(2-chloroethoxy)methane	21.3	1.0	ug/l	20.0		106	49-165			
Bis(2-chloroethyl)ether	17.9	1.0	ug/l	20.0		89	43-126			
Bis(2-chloroisopropyl)ether	21.8	1.0	ug/l	20.0		109	63-139			
Bis(2-ethylhexyl)phthalate	22.5	4.0	ug/l	20.0		112	29-137			
Butyl benzyl phthalate	20.4	1.0	ug/l	20.0		102	0.1-140			
Chrysene	18.7	1.0	ug/l	20.0		94	44-140			
Dibenzo (a,h) anthracene	15.6	2.0	ug/l	20.0		78	0.1-200			
Diethyl phthalate	17.6	1.0	ug/l	20.0		88	0.1-112			
Dimethyl phthalate	18.4	1.0	ug/l	20.0		92	0.1-112			
Di-n-butyl phthalate	18.1	1.0	ug/l	20.0		91	8-118			
Di-n-octyl phthalate	20.8	1.0	ug/l	20.0		104	19-132			
Fluoranthene	18.2	1.0	ug/l	20.0		91	43-121			
Fluorene	18.3	1.0	ug/l	20.0		92	70-120			
Hexachlorobenzene	17.8	1.0	ug/l	20.0		89	8-142			
Hexachlorobutadiene	18.6	1.0	ug/l	20.0		93	38-116			
Hexachlorocyclopentadiene	11.8	5.0	ug/l	20.0		59	10-120			
Hexachloroethane	17.6	1.0	ug/l	20.0		88	55-113			
Indeno (1,2,3-cd) pyrene	17.7	2.0	ug/l	20.0		89	0.1-151			
Isophorone	18.6	1.0	ug/l	20.0		93	47-180			
Naphthalene	17.3	1.0	ug/l	20.0		87	36-120			
Nitrobenzene	19.3	1.0	ug/l	20.0		96	54-158			
N-Nitrosodimethylamine	11.4	1.0	ug/l	20.0		57	27-78			
N-Nitrosodi-n-propylamine	20.1	1.0	ug/l	20.0		101	14-198			
N-Nitrosodiphenylamine	14.8	1.0	ug/l	20.0		74	48-120			
Pentachlorophenol	18.4	1.0	ug/l	20.0		92	41-120			

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Quality Control Results

(Continued)

Acid and Base/Neutral Extractables by GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W3B0913 - EPA 625.1 (Continued)										
LCS (W3B0913-BS1)				**Prepared: 02/10/23 Analyzed: 03/06/23**						
Phenanthrene	19.6	1.0	ug/l	20.0		98	65-120			
Phenol	7.14	1.0	ug/l	20.0		36	17-112			
Pyrene	18.8	1.0	ug/l	20.0		94	70-115			
Surrogate(s)										
2,4,6-Tribromophenol	*34.6*		*ug/l*	*40.0*		*86*	*25-120*			
2-Fluorobiphenyl	*17.4*		*ug/l*	*20.0*		*87*	*22-120*			
2-Fluorophenol	*23.4*		*ug/l*	*40.0*		*59*	*17-96*			
Nitrobenzene-d5	*20.2*		*ug/l*	*20.0*		*101*	*47-120*			
Phenol-d5	*14.4*		*ug/l*	*40.0*		*36*	*12-70*			
Terphenyl-d14	*20.6*		*ug/l*	*20.0*		*103*	*44-129*			
LCS Dup (W3B0913-BSD1)				**Prepared: 02/10/23 Analyzed: 03/06/23**						
1,2,4-Trichlorobenzene	16.0	1.0	ug/l	20.0		80	57-130	11	30	
1,2-Dichlorobenzene	16.5	1.0	ug/l	20.0		83	57-120	14	30	
1,3-Dichlorobenzene	14.8	1.0	ug/l	20.0		74	55-120	12	30	
1,4-Dichlorobenzene	16.6	1.0	ug/l	20.0		83	55-120	12	30	
2,4,6-Trichlorophenol	18.1	1.0	ug/l	20.0		91	52-129	1	30	
2,4-Dichlorophenol	18.4	1.0	ug/l	20.0		92	53-122	2	30	
2,4-Dimethylphenol	16.7	1.0	ug/l	20.0		83	42-119	0.8	30	
2,4-Dinitrophenol	19.7	10	ug/l	20.0		99	0.1-173	3	30	
2,4-Dinitrotoluene	19.4	1.0	ug/l	20.0		97	48-127	2	30	
2,6-Dinitrotoluene	17.7	1.0	ug/l	20.0		88	68-137	2	30	
2-Chloronaphthalene	16.8	1.0	ug/l	20.0		84	65-118	7	30	
2-Chlorophenol	17.1	1.0	ug/l	20.0		85	36-120	3	30	
2-Methyl-4,6-dinitrophenol	18.8	5.0	ug/l	20.0		94	53-130	4	30	
2-Nitrophenol	20.0	1.0	ug/l	20.0		100	45-167	0.8	30	
3,3'-Dichlorobenzidine	9.55	5.0	ug/l	20.0		48	8-213	14	30	
4-Bromophenyl phenyl ether	16.7	1.0	ug/l	20.0		84	65-120	7	30	
4-Chloro-3-methylphenol	18.3	1.0	ug/l	20.0		91	41-128	2	30	
4-Chlorophenyl phenyl ether	15.8	1.0	ug/l	20.0		79	38-145	5	30	
4-Nitrophenol	6.85	5.0	ug/l	20.0		34	13-129	5	30	
Acenaphthene	18.4	1.0	ug/l	20.0		92	60-132	5	30	
Acenaphthylene	18.9	1.0	ug/l	20.0		94	54-126	3	30	
Anthracene	18.0	1.0	ug/l	20.0		90	43-120	5	30	
Benzo (a) anthracene	16.9	1.0	ug/l	20.0		85	42-133	13	30	
Benzo (a) pyrene	19.3	1.0	ug/l	20.0		96	32-148	16	30	
Benzo (b) fluoranthene	18.5	1.0	ug/l	20.0		93	42-140	13	30	AN-IP
Benzo (g,h,i) perylene	20.9	2.0	ug/l	20.0		104	0.1-195	3	30	
Benzo (k) fluoranthene	17.3	1.0	ug/l	20.0		87	25-146	12	30	AN-IP
Bis(2-chloroethoxy)methane	21.1	1.0	ug/l	20.0		105	49-165	0.9	30	

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Quality Control Results

(Continued)

Acid and Base/Neutral Extractables by GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W3B0913 - EPA 625.1 (Continued)										
LCS Dup (W3B0913-BSD1)				**Prepared: 02/10/23**	**Analyzed: 03/06/23**					
Bis(2-chloroethyl)ether	17.5	1.0	ug/l	20.0		87	43-126	2	30	
Bis(2-chloroisopropyl)ether	21.4	1.0	ug/l	20.0		107	63-139	2	30	
Bis(2-ethylhexyl)phthalate	18.4	4.0	ug/l	20.0		92	29-137	20	30	
Butyl benzyl phthalate	18.8	1.0	ug/l	20.0		94	0.1-140	8	30	
Chrysene	18.1	1.0	ug/l	20.0		90	44-140	3	30	
Dibenzo (a,h) anthracene	14.5	2.0	ug/l	20.0		73	0.1-200	7	30	
Diethyl phthalate	16.7	1.0	ug/l	20.0		83	0.1-112	6	30	
Dimethyl phthalate	17.9	1.0	ug/l	20.0		89	0.1-112	3	30	
Di-n-butyl phthalate	17.4	1.0	ug/l	20.0		87	8-118	4	30	
Di-n-octyl phthalate	19.4	1.0	ug/l	20.0		97	19-132	7	30	
Fluoranthene	17.4	1.0	ug/l	20.0		87	43-121	4	30	
Fluorene	17.8	1.0	ug/l	20.0		89	70-120	3	30	
Hexachlorobenzene	17.1	1.0	ug/l	20.0		86	8-142	4	30	
Hexachlorobutadiene	16.4	1.0	ug/l	20.0		82	38-116	13	30	
Hexachlorocyclopentadiene	10.7	5.0	ug/l	20.0		54	10-120	10	30	
Hexachloroethane	15.2	1.0	ug/l	20.0		76	55-113	15	30	
Indeno (1,2,3-cd) pyrene	16.9	2.0	ug/l	20.0		85	0.1-151	5	30	
Isophorone	18.4	1.0	ug/l	20.0		92	47-180	1	30	
Naphthalene	16.1	1.0	ug/l	20.0		81	36-120	7	30	
Nitrobenzene	19.0	1.0	ug/l	20.0		95	54-158	1	30	
N-Nitrosodimethylamine	10.5	1.0	ug/l	20.0		53	27-78	8	30	
N-Nitrosodi-n-propylamine	20.1	1.0	ug/l	20.0		101	14-198	0.06	30	
N-Nitrosodiphenylamine	14.3	1.0	ug/l	20.0		72	48-120	3	30	
Pentachlorophenol	17.2	1.0	ug/l	20.0		86	41-120	7	30	
Phenanthrene	19.2	1.0	ug/l	20.0		96	65-120	2	30	
Phenol	6.99	1.0	ug/l	20.0		35	17-112	2	30	
Pyrene	17.4	1.0	ug/l	20.0		87	70-115	8	30	
Surrogate(s)										
2,4,6-Tribromophenol	*33.1*		*ug/l*	*40.0*		*83*	*25-120*			
2-Fluorobiphenyl	*16.2*		*ug/l*	*20.0*		*81*	*22-120*			
2-Fluorophenol	*20.8*		*ug/l*	*40.0*		*52*	*17-96*			
Nitrobenzene-d5	*19.5*		*ug/l*	*20.0*		*98*	*47-120*			
Phenol-d5	*14.0*		*ug/l*	*40.0*		*35*	*12-70*			
Terphenyl-d14	*18.7*		*ug/l*	*20.0*		*93*	*44-129*			

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Quality Control Results

(Continued)

Chlorinated Pesticides and/or PCBs by GC/ECD

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W3B1238 - EPA 608.3										
Blank (W3B1238-BLK1)				**Prepared: 02/15/23 Analyzed: 03/06/23**						
2,4'-DDD	ND	0.0050	ug/l							
2,4'-DDE	ND	0.0050	ug/l							
2,4'-DDT	ND	0.0050	ug/l							
4,4´-DDD	ND	0.0050	ug/l							
4,4´-DDE	ND	0.0050	ug/l							
4,4´-DDT	ND	0.010	ug/l							
Aldrin	ND	0.0050	ug/l							
alpha-BHC	ND	0.010	ug/l							
alpha-Chlordane	ND	0.010	ug/l							
Aroclor 1016	ND	0.50	ug/l							
Aroclor 1221	ND	0.50	ug/l							
Aroclor 1232	ND	0.50	ug/l							
Aroclor 1242	ND	0.50	ug/l							
Aroclor 1248	ND	0.50	ug/l							
Aroclor 1254	ND	0.50	ug/l							
Aroclor 1260	ND	0.50	ug/l							
beta-BHC	ND	0.0050	ug/l							
Chlordane (tech)	ND	0.10	ug/l							
delta-BHC	ND	0.0050	ug/l							
Dieldrin	ND	0.010	ug/l							
Endosulfan I	ND	0.020	ug/l							
Endosulfan II	ND	0.010	ug/l							
Endosulfan sulfate	ND	0.050	ug/l							
Endrin	ND	0.010	ug/l							
Endrin aldehyde	ND	0.010	ug/l							
Endrin ketone	ND	0.050	ug/l							
gamma-BHC (Lindane)	ND	0.020	ug/l							
gamma-Chlordane	ND	0.010	ug/l							
Heptachlor	ND	0.010	ug/l							
Heptachlor epoxide	ND	0.010	ug/l							
Methoxychlor	ND	0.020	ug/l							
Mirex	ND	0.010	ug/l							
Toxaphene	ND	0.50	ug/l							
Surrogate(s)										
Decachlorobiphenyl	*0.0684*		*ug/l*	*0.100*		*68*	*34-125*			
Tetrachloro-meta-xylene	*0.0570*		*ug/l*	*0.100*		*57*	*35-111*			
Blank (W3B1238-BLK2)				**Prepared: 02/15/23 Analyzed: 03/07/23**						
4,4´-DDD	ND	0.0050	ug/l							QC-2
4,4´-DDE	ND	0.0050	ug/l							QC-2

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(Continued)

Chlorinated Pesticides and/or PCBs by GC/ECD (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W3B1238 - EPA 608.3 (Continued)										
Blank (W3B1238-BLK2)				**Prepared: 02/15/23 Analyzed: 03/07/23**						
4,4´-DDT	ND	0.010	ug/l							QC-2
Aldrin	ND	0.0050	ug/l							QC-2
alpha-BHC	ND	0.010	ug/l							QC-2
Aroclor 1016	ND	0.50	ug/l							QC-2
Aroclor 1221	ND	0.50	ug/l							QC-2
Aroclor 1232	ND	0.50	ug/l							QC-2
Aroclor 1242	ND	0.50	ug/l							QC-2
Aroclor 1248	ND	0.50	ug/l							QC-2
Aroclor 1254	ND	0.50	ug/l							QC-2
Aroclor 1260	ND	0.50	ug/l							QC-2
beta-BHC	ND	0.0050	ug/l							QC-2
Chlordane (tech)	ND	0.10	ug/l							QC-2
delta-BHC	ND	0.0050	ug/l							QC-2
Dieldrin	ND	0.010	ug/l							QC-2
Endosulfan I	ND	0.020	ug/l							QC-2
Endosulfan II	ND	0.010	ug/l							QC-2
Endosulfan sulfate	ND	0.050	ug/l							QC-2
Endrin	ND	0.010	ug/l							QC-2
Endrin aldehyde	ND	0.010	ug/l							QC-2
gamma-BHC (Lindane)	ND	0.020	ug/l							QC-2
Heptachlor	ND	0.010	ug/l							QC-2
Heptachlor epoxide	ND	0.010	ug/l							QC-2
Toxaphene	ND	0.50	ug/l							QC-2
Surrogate(s)										
Decachlorobiphenyl	*0.0640*		*ug/l*	*0.100*		*64*	*34-125*			QC-2
Tetrachloro-meta-xylene	*0.0550*		*ug/l*	*0.100*		*55*	*35-111*			QC-2
LCS (W3B1238-BS1)				**Prepared: 02/15/23 Analyzed: 03/06/23**						
4,4´-DDD	0.0705	0.0050	ug/l	0.100		70	48-130			
4,4´-DDE	0.0487	0.0050	ug/l	0.100		49	54-130			Q-02
4,4´-DDT	0.0712	0.010	ug/l	0.100		71	46-137			
Aldrin	0.0596	0.0050	ug/l	0.100		60	54-122			
alpha-BHC	0.0627	0.010	ug/l	0.100		63	49-130			
alpha-Chlordane	0.0660	0.010	ug/l	0.100		66	23-127			
beta-BHC	0.0656	0.0050	ug/l	0.100		66	39-130			
delta-BHC	0.0613	0.0050	ug/l	0.100		61	51-130			
Dieldrin	0.0596	0.010	ug/l	0.100		60	58-130			
Endosulfan I	0.0581	0.020	ug/l	0.100		58	57-141			
Endosulfan II	0.0646	0.010	ug/l	0.100		65	22-171			
Endosulfan sulfate	0.0666	0.050	ug/l	0.100		67	38-132			

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Chlorinated Pesticides and/or PCBs by GC/ECD (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W3B1238 - EPA 608.3 (Continued)										
LCS (W3B1238-BS1)				**Prepared: 02/15/23 Analyzed: 03/06/23**						
Endrin	0.0671	0.010	ug/l	0.100		67	51-130			
Endrin aldehyde	0.0472	0.010	ug/l	0.100		47	41-130			
Endrin ketone	0.0776	0.050	ug/l	0.100		78	0-200			
gamma-BHC (Lindane)	0.0653	0.020	ug/l	0.100		65	43-127			
gamma-Chlordane	0.0671	0.010	ug/l	0.100		67	49-106			
Heptachlor	0.0646	0.010	ug/l	0.100		65	43-111			
Heptachlor epoxide	0.0698	0.010	ug/l	0.100		70	57-132			
Methoxychlor	0.0451	0.020	ug/l	0.100		45	50-130			Q-02
Surrogate(s)										
Decachlorobiphenyl	*0.0735*		*ug/l*	*0.100*		*73*	*34-125*			
Tetrachloro-meta-xylene	*0.0610*		*ug/l*	*0.100*		*61*	*35-111*			
LCS (W3B1238-BS2)				**Prepared: 02/15/23 Analyzed: 03/07/23**						
4,4´-DDD	0.0742	0.0050	ug/l	0.100		74	48-130			QC-2
4,4´-DDE	0.0523	0.0050	ug/l	0.100		52	54-130			Q-02, QC-2
4,4´-DDT	0.0704	0.010	ug/l	0.100		70	46-137			QC-2
Aldrin	0.0605	0.0050	ug/l	0.100		61	54-122			QC-2
alpha-BHC	0.0642	0.010	ug/l	0.100		64	49-130			QC-2
beta-BHC	0.0701	0.0050	ug/l	0.100		70	39-130			QC-2
delta-BHC	0.0660	0.0050	ug/l	0.100		66	51-130			QC-2
Dieldrin	0.0594	0.010	ug/l	0.100		59	58-130			QC-2
Endosulfan I	0.0595	0.020	ug/l	0.100		60	57-141			QC-2
Endosulfan II	0.0653	0.010	ug/l	0.100		65	22-171			QC-2
Endosulfan sulfate	0.0747	0.050	ug/l	0.100		75	38-132			QC-2
Endrin	0.0677	0.010	ug/l	0.100		68	51-130			QC-2
Endrin aldehyde	0.0547	0.010	ug/l	0.100		55	41-130			QC-2
gamma-BHC (Lindane)	0.0661	0.020	ug/l	0.100		66	43-127			QC-2
Heptachlor	0.0650	0.010	ug/l	0.100		65	43-111			QC-2
Heptachlor epoxide	0.0699	0.010	ug/l	0.100		70	57-132			QC-2
Surrogate(s)										
Decachlorobiphenyl	*0.0761*		*ug/l*	*0.100*		*76*	*34-125*			QC-2
Tetrachloro-meta-xylene	*0.0636*		*ug/l*	*0.100*		*64*	*35-111*			QC-2
Matrix Spike (W3B1238-MS1)	**Source: 3B10064-01**			**Prepared: 02/15/23 Analyzed: 03/06/23**						
4,4´-DDD	0.0516	0.050	ug/l	0.109	ND	48	31-141			M-04
4,4´-DDE	0.0447	0.050	ug/l	0.109	ND	41	30-145			M-04
4,4´-DDT	0.0751	0.10	ug/l	0.109	ND	69	25-160			M-04
Aldrin	0.0737	0.050	ug/l	0.109	ND	68	42-122			M-04
alpha-BHC	0.0544	0.10	ug/l	0.109	ND	50	37-134			M-04
alpha-Chlordane	0.0322	0.10	ug/l	0.109	ND	30	14-141			M-04
beta-BHC	0.0335	0.050	ug/l	0.109	ND	31	17-147			M-04

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Chlorinated Pesticides and/or PCBs by GC/ECD (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W3B1238 - EPA 608.3 (Continued)										
Matrix Spike (W3B1238-MS1)	**Source: 3B10064-01**			**Prepared: 02/15/23**	**Analyzed: 03/06/23**					
delta-BHC	0.0685	0.050	ug/l	0.109	ND	63	19-140			M-04
Dieldrin	0.0472	0.10	ug/l	0.109	ND	44	36-146			M-04
Endosulfan I	0.0623	0.20	ug/l	0.109	ND	57	45-153			M-04
Endosulfan II	0.0658	0.10	ug/l	0.109	ND	61	17-202			M-04
Endosulfan sulfate	0.0476	0.50	ug/l	0.109	ND	44	26-144			M-04
Endrin	0.0455	0.10	ug/l	0.109	ND	42	30-147			M-04
Endrin aldehyde	0.0408	0.10	ug/l	0.109	ND	38	30-140			M-04
Endrin ketone	0.0682	0.50	ug/l	0.109	ND	63	0-200			M-04
gamma-BHC (Lindane)	0.0534	0.20	ug/l	0.109	ND	49	32-127			M-04
gamma-Chlordane	0.0505	0.10	ug/l	0.109	ND	46	36-116			M-04
Heptachlor	0.0492	0.10	ug/l	0.109	ND	45	34-111			M-04
Heptachlor epoxide	0.0368	0.10	ug/l	0.109	ND	34	37-142			M-04, MS-01
Methoxychlor	0.0364	0.20	ug/l	0.109	ND	34	50-140			M-04, MS-01
Surrogate(s)										
Decachlorobiphenyl	*0.0582*		*ug/l*	*0.109*		*54*	*34-125*			
Tetrachloro-meta-xylene	*0.0715*		*ug/l*	*0.109*		*66*	*35-111*			
Matrix Spike Dup (W3B1238-MSD1)	**Source: 3B10064-01**			**Prepared: 02/15/23**	**Analyzed: 03/06/23**					
4,4´-DDD	0.0399	0.050	ug/l	0.106	ND	38	31-141	26	30	M-04
4,4´-DDE	0.0325	0.050	ug/l	0.106	ND	31	30-145	32	30	M-04, R-02
4,4´-DDT	0.0554	0.10	ug/l	0.106	ND	52	25-160	30	30	M-04
Aldrin	0.0433	0.050	ug/l	0.106	ND	41	42-122	52	30	M-04, MS-01, R-02
alpha-BHC	0.0580	0.10	ug/l	0.106	ND	55	37-134	6	30	M-04
alpha-Chlordane	0.0236	0.10	ug/l	0.106	ND	22	14-141	31	30	M-04, R-02
beta-BHC	0.0337	0.050	ug/l	0.106	ND	32	17-147	0.5	30	M-04
delta-BHC	0.0677	0.050	ug/l	0.106	ND	64	19-140	1	30	M-04
Dieldrin	0.0357	0.10	ug/l	0.106	ND	34	36-146	28	30	M-04, MS-01
Endosulfan I	0.0516	0.20	ug/l	0.106	ND	49	45-153	19	30	M-04
Endosulfan II	0.0527	0.10	ug/l	0.106	ND	50	17-202	22	30	M-04
Endosulfan sulfate	0.0485	0.50	ug/l	0.106	ND	46	26-144	2	30	M-04
Endrin	0.0412	0.10	ug/l	0.106	ND	39	30-147	10	30	M-04
Endrin aldehyde	0.0440	0.10	ug/l	0.106	ND	42	30-140	7	30	M-04
Endrin ketone	0.0487	0.50	ug/l	0.106	ND	46	0-200	33	200	M-04
gamma-BHC (Lindane)	0.0665	0.20	ug/l	0.106	ND	63	32-127	22	30	M-04
gamma-Chlordane	0.0352	0.10	ug/l	0.106	ND	33	36-116	36	30	MS-01, R-02, M-04
Heptachlor	0.0386	0.10	ug/l	0.106	ND	37	34-111	24	30	M-04
Heptachlor epoxide	0.0341	0.10	ug/l	0.106	ND	32	37-142	7	30	M-04, MS-01

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Chlorinated Pesticides and/or PCBs by GC/ECD (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W3B1238 - EPA 608.3 (Continued)										
Matrix Spike Dup (W3B1238-MSD1)	**Source: 3B10064-01**			**Prepared: 02/15/23**	**Analyzed: 03/06/23**					
Methoxychlor	0.0270	0.20	ug/l	0.106	ND	25	50-140	200	30	M-04, MS-01, R-03
Surrogate(s)										
Decachlorobiphenyl	*0.0275*		*ug/l*	*0.106*		*26*	*34-125*			*S-GC*
Tetrachloro-meta-xylene	*0.0635*		*ug/l*	*0.106*		*60*	*35-111*			

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Volatile Organic Compounds by P&T and GC/MS

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W3B0861 - EPA 624.1										
Blank (W3B0861-BLK1)				**Prepared & Analyzed: 02/09/23**						
1,1,1-Trichloroethane	ND	1.0	ug/l							
1,1,2,2-Tetrachloroethane	ND	1.0	ug/l							
1,1,2-Trichloroethane	ND	1.0	ug/l							
1,1-Dichloroethane	ND	1.0	ug/l							
1,1-Dichloroethene	ND	1.0	ug/l							
1,2-Dichloroethane	ND	1.0	ug/l							
1,2-Dichloropropane	ND	1.0	ug/l							
2-Butanone	ND	5.0	ug/l							
2-Chloroethyl vinyl ether	ND	1.0	ug/l							
2-Hexanone	ND	5.0	ug/l							
4-Methyl-2-pentanone	ND	5.0	ug/l							
Acetone	ND	5.0	ug/l							
Acrolein	ND	5.0	ug/l							
Acrylonitrile	ND	2.0	ug/l							
Benzene	ND	1.0	ug/l							
Bromodichloromethane	ND	1.0	ug/l							
Bromoform	ND	1.0	ug/l							
Bromomethane	ND	1.0	ug/l							
Carbon Disulfide	ND	1.0	ug/l							
Carbon tetrachloride	ND	1.0	ug/l							
Chlorobenzene	ND	1.0	ug/l							
Chloroethane	ND	1.0	ug/l							
Chloroform	ND	1.0	ug/l							
Chloromethane	ND	1.0	ug/l							
cis-1,3-Dichloropropene	ND	1.0	ug/l							
Dibromochloromethane	ND	1.0	ug/l							
Dichlorodifluoromethane (Freon 12)	ND	1.0	ug/l							
Ethylbenzene	ND	1.0	ug/l							
m-Dichlorobenzene	ND	1.0	ug/l							
Methyl tert-butyl ether (MTBE)	ND	1.0	ug/l							
Methylene chloride	ND	1.0	ug/l							
o-Dichlorobenzene	ND	1.0	ug/l							
p-Dichlorobenzene	ND	1.0	ug/l							
Tetrachloroethene	ND	1.0	ug/l							
Toluene	ND	1.0	ug/l							
trans-1,2-Dichloroethene	ND	1.0	ug/l							
trans-1,3-Dichloropropene	ND	1.0	ug/l							
Trichloroethene	ND	1.0	ug/l							
Trichlorofluoromethane	ND	1.0	ug/l							

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Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W3B0861 - EPA 624.1 (Continued)										
Blank (W3B0861-BLK1)				**Prepared & Analyzed: 02/09/23**						
Vinyl chloride	ND	1.0	ug/l							
Surrogate(s)										
1,2-Dichloroethane-d4	*55.0*		*ug/l*	*50.0*		*110*	*82-125*			
4-Bromofluorobenzene	*48.3*		*ug/l*	*50.0*		*97*	*88-108*			
Toluene-d8	*49.9*		*ug/l*	*50.0*		*100*	*92-112*			
LCS (W3B0861-BS1)				**Prepared & Analyzed: 02/09/23**						
1,1,1-Trichloroethane	52.2	1.0	ug/l	50.0		104	52-162			
1,1,2,2-Tetrachloroethane	51.9	1.0	ug/l	50.0		104	46-157			
1,1,2-Trichloroethane	54.2	1.0	ug/l	50.0		108	52-150			
1,1-Dichloroethane	50.2	1.0	ug/l	50.0		100	59-155			
1,1-Dichloroethene	51.4	1.0	ug/l	50.0		103	0.1-234			
1,2-Dichloroethane	51.8	1.0	ug/l	50.0		104	49-155			
1,2-Dichloropropane	52.4	1.0	ug/l	50.0		105	0.1-210			
2-Butanone	53.0	5.0	ug/l	50.0		106	67-136			
2-Chloroethyl vinyl ether	51.2	1.0	ug/l	50.0		102	0.1-305			
2-Hexanone	56.3	5.0	ug/l	50.0		113	76-133			
4-Methyl-2-pentanone	50.3	5.0	ug/l	50.0		101	74-132			
Acetone	545	5.0	ug/l	500		109	60-147			
Acrolein	50.8	5.0	ug/l	50.0		102	49-152			
Acrylonitrile	57.0	2.0	ug/l	50.0		114	74-127			
Benzene	51.0	1.0	ug/l	50.0		102	37-151			
Bromodichloromethane	53.7	1.0	ug/l	50.0		107	35-155			
Bromoform	56.2	1.0	ug/l	50.0		112	45-169			
Bromomethane	48.3	1.0	ug/l	50.0		97	0.1-242			
Carbon Disulfide	45.3	1.0	ug/l	50.0		91	79-118			
Carbon tetrachloride	55.5	1.0	ug/l	50.0		111	70-140			
Chlorobenzene	50.0	1.0	ug/l	50.0		100	37-160			
Chloroethane	45.3	1.0	ug/l	50.0		91	14-230			
Chloroform	52.7	1.0	ug/l	50.0		105	51-138			
Chloromethane	40.8	1.0	ug/l	50.0		82	0.1-273			
cis-1,2-Dichloroethene	52.0	1.0	ug/l	50.0		104	85-121			
cis-1,3-Dichloropropene	52.7	1.0	ug/l	50.0		105	0.1-227			
Dibromochloromethane	55.3	1.0	ug/l	50.0		111	53-149			
Dichlorodifluoromethane (Freon 12)	43.8	1.0	ug/l	50.0		88	67-126			
Ethylbenzene	54.6	1.0	ug/l	50.0		109	37-162			
m,p-Xylene	51.8	1.0	ug/l	50.0		104	81-121			
m-Dichlorobenzene	52.6	1.0	ug/l	50.0		105	59-156			
Methyl tert-butyl ether (MTBE)	198	1.0	ug/l	200		99	80-128			
Methylene chloride	47.6	1.0	ug/l	50.0		95	0.1-221			

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Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W3B0861 - EPA 624.1 (Continued)										
LCS (W3B0861-BS1)				**Prepared & Analyzed: 02/09/23**						
o-Dichlorobenzene	49.8	1.0	ug/l	50.0		100	18-190			
o-Xylene	51.4	1.0	ug/l	50.0		103	84-121			
p-Dichlorobenzene	47.9	1.0	ug/l	50.0		96	18-190			
Tert-butyl alcohol	191	5.0	ug/l	200		96	53-144			
Tetrachloroethene	51.3	1.0	ug/l	50.0		103	64-148			
Toluene	52.8	1.0	ug/l	50.0		106	47-150			
trans-1,2-Dichloroethene	49.5	1.0	ug/l	50.0		99	54-156			
trans-1,3-Dichloropropene	53.5	1.0	ug/l	50.0		107	17-183			
Trichloroethene	51.6	1.0	ug/l	50.0		103	71-157			
Trichlorofluoromethane	53.1	1.0	ug/l	50.0		106	17-181			
Vinyl chloride	42.9	1.0	ug/l	50.0		86	0.1-251			
Surrogate(s)										
1,2-Dichloroethane-d4	*50.6*		*ug/l*	*50.0*		*101*	*82-125*			
4-Bromofluorobenzene	*49.6*		*ug/l*	*50.0*		*99*	*88-108*			
Toluene-d8	*49.7*		*ug/l*	*50.0*		*99*	*92-112*			
LCS Dup (W3B0861-BSD1)				**Prepared & Analyzed: 02/09/23**						
1,1,1-Trichloroethane	51.9	1.0	ug/l	50.0		104	52-162	0.6	25	
1,1,2,2-Tetrachloroethane	52.2	1.0	ug/l	50.0		104	46-157	0.5	25	
1,1,2-Trichloroethane	53.4	1.0	ug/l	50.0		107	52-150	1	25	
1,1-Dichloroethane	53.6	1.0	ug/l	50.0		107	59-155	6	25	
1,1-Dichloroethene	54.1	1.0	ug/l	50.0		108	0.1-234	5	25	
1,2-Dichloroethane	51.1	1.0	ug/l	50.0		102	49-155	1	25	
1,2-Dichloropropane	53.4	1.0	ug/l	50.0		107	0.1-210	2	25	
2-Butanone	52.5	5.0	ug/l	50.0		105	67-136	0.9	25	
2-Chloroethyl vinyl ether	50.3	1.0	ug/l	50.0		101	0.1-305	2	25	
2-Hexanone	53.9	5.0	ug/l	50.0		108	76-133	4	25	
4-Methyl-2-pentanone	48.3	5.0	ug/l	50.0		97	74-132	4	25	
Acetone	585	5.0	ug/l	500		117	60-147	7	25	
Acrolein	54.3	5.0	ug/l	50.0		109	49-152	7	25	
Acrylonitrile	54.7	2.0	ug/l	50.0		109	74-127	4	25	
Benzene	50.7	1.0	ug/l	50.0		101	37-151	0.6	25	
Bromodichloromethane	53.2	1.0	ug/l	50.0		106	35-155	0.9	25	
Bromoform	56.0	1.0	ug/l	50.0		112	45-169	0.4	25	
Bromomethane	46.2	1.0	ug/l	50.0		92	0.1-242	4	25	
Carbon Disulfide	47.4	1.0	ug/l	50.0		95	79-118	5	25	
Carbon tetrachloride	53.1	1.0	ug/l	50.0		106	70-140	4	25	
Chlorobenzene	49.9	1.0	ug/l	50.0		100	37-160	0.2	25	
Chloroethane	47.6	1.0	ug/l	50.0		95	14-230	5	25	
Chloroform	53.5	1.0	ug/l	50.0		107	51-138	2	25	

Encina Wastewater Authority
6200 Avenida Encinas
Carlsbad, CA 92011

Project Number: 2023 Annual Meadowlark Influent Priority Pollutant Scan

Project Manager: Rachael Morgan

Reported: 03/15/2023 08:47

Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W3B0861 - EPA 624.1 (Continued)										
LCS Dup (W3B0861-BSD1)				**Prepared & Analyzed: 02/09/23**						
Chloromethane	41.0	1.0	ug/l	50.0		82	0.1-273	0.4	25	
cis-1,2-Dichloroethene	54.5	1.0	ug/l	50.0		109	85-121	5	25	
cis-1,3-Dichloropropene	52.6	1.0	ug/l	50.0		105	0.1-227	0.3	25	
Dibromochloromethane	54.4	1.0	ug/l	50.0		109	53-149	2	25	
Dichlorodifluoromethane (Freon 12)	44.0	1.0	ug/l	50.0		88	67-126	0.3	25	
Ethylbenzene	54.6	1.0	ug/l	50.0		109	37-162	0.03	25	
m,p-Xylene	53.3	1.0	ug/l	50.0		107	81-121	3	25	
m-Dichlorobenzene	53.2	1.0	ug/l	50.0		106	59-156	1	25	
Methyl tert-butyl ether (MTBE)	197	1.0	ug/l	200		98	80-128	0.5	25	
Methylene chloride	47.0	1.0	ug/l	50.0		94	0.1-221	1	25	
o-Dichlorobenzene	51.0	1.0	ug/l	50.0		102	18-190	2	25	
o-Xylene	51.0	1.0	ug/l	50.0		102	84-121	0.6	25	
p-Dichlorobenzene	50.0	1.0	ug/l	50.0		100	18-190	4	25	
Tert-butyl alcohol	201	5.0	ug/l	200		100	53-144	5	25	
Tetrachloroethene	49.0	1.0	ug/l	50.0		98	64-148	5	25	
Toluene	49.9	1.0	ug/l	50.0		100	47-150	6	25	
trans-1,2-Dichloroethene	48.0	1.0	ug/l	50.0		96	54-156	3	25	
trans-1,3-Dichloropropene	53.3	1.0	ug/l	50.0		107	17-183	0.5	25	
Trichloroethene	50.9	1.0	ug/l	50.0		102	71-157	1	25	
Trichlorofluoromethane	51.5	1.0	ug/l	50.0		103	17-181	3	25	
Vinyl chloride	43.8	1.0	ug/l	50.0		88	0.1-251	2	25	
Surrogate(s)										
1,2-Dichloroethane-d4	*49.4*		*ug/l*	*50.0*		*99*	*82-125*			
4-Bromofluorobenzene	*49.4*		*ug/l*	*50.0*		*99*	*88-108*			
Toluene-d8	*49.7*		*ug/l*	*50.0*		*99*	*92-112*			

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Encina Wastewater Authority
6200 Avenida Encinas
Carlsbad, CA 92011

Project Number: 2023 Annual Meadowlark Influent Priority Pollutant Scan

Project Manager: Rachael Morgan

Reported: 03/15/2023 08:47

Notes and Definitions

Item	Definition
AN-IP	Sample results for structural isomers may have contribution from their isomeric pair.
M-02	Due to the nature of matrix interferences, sample was diluted prior to preparation. The MDL and MRL were raised due to the dilution.
M-04	Due to the nature of matrix interferences, sample extract was diluted prior to analysis. The MDL and MRL were raised due to the dilution.
M-05	Due to the nature of matrix interferences, sample was diluted prior to analysis. The MDL and MRL were raised due to the dilution.
MS-01	The spike recovery for this QC sample is outside of established control limits possibly due to sample matrix interference.
P	Recovery outside of target range
Q-02	Low recovery of this analyte in the QC sample. The analysis of the low level standard produced acceptable recovery indicating that the sample result might be accurately reported as Not Detected.
QC-2	This QC sample was reanalyzed to complement samples that require re-analysis on different date. See analysis date.
R-02	The RPD was outside of QC acceptance limits due to possible matrix interference.
R-03	The RPD is not applicable for result below the reporting limit (either ND or J value).
S-GC	Surrogate recovery outside of control limits due to a possible matrix effect . The data was accepted based on valid recovery of the remaining surrogate.
%REC	Percent Recovery
Dil	Dilution
MDL	Method Detection Limit
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ)
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

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CHAIN OF CUSTODY RECORD

Weck Laboratories, Inc.
Analytical Laboratory Services - Since 1964

14859 East Clark Avenue : Industry : CA 91745
Tel 626-336-2139 ♦ www.wecklabs.com

Work Order # 3B09043
Page 1 Of 1

CLIENT NAME:	PROJECT:
Encina Wastewater Authority	2023 Annual Meadowlark Influent Priority Pollutant Scan
ADDRESS: 6200 Avenida Encinas, Carlsbad, CA 92011	PHONE: 760.268.8801 rachael@encinajpa.com
PROJECT MANAGER: Rachael Morgan	SAMPLER: CD

SPECIAL HANDLING

- ☐ Same Day Rush 150%
- ☐ 24 Hour Rush 100%
- ☐ 48-72 Hour Rush 75%
- ☐ 4 - 5 Day Rush 30%
- ☐ Rush Extractions 50%
- ☑ 10 - 15 Business Days
- ☐ QA/QC Data Package

Charges will apply for weekends/holidays

Method of Shipment:

ID# (For lab Use Only)	DATE SAMPLED	TIME SAMPLED	SMPL TYPE	SAMPLE IDENTIFICATION/SITE LOCATION	# OF CONT.	EPA 8280A Dioxin-Full Screen	EPA 608.3 Pesticides & PCB's	EPA 625	EPA 624 Acrolein & Acrylonitrile	COMMENTS
	2/7-8/23	0700-0700	WW	Meadowlark Influent	2	X				1 L AMBER GLASS
	2/7-8/23	0700-0700	WW	Meadowlark Influent	2		X			1 L AMBER GLASS
	2/7-8/23	0700-0700	WW	Meadowlark Influent	2			X		1 L AMBER GLASS
	2/8/23	0734	WW	Meadowlark Influent	3				X	40 ML VOA Unpreserved

RELINQUISHED BY	DATE / TIME	RECEIVED BY
[signature]	2/8/23 1200	Macaly S. 2-8-23/12:43
Macaly S.	2-8-23/17:47	[signature] 2/8/23 1747

SAMPLE CONDITION:
Actual Temperature: 2.9°C

Received On Ice	Y / N
Preserved	Y / N
Evidence Seals Present	Y / N
Container Attacked	Y / N
Preserved at Lab	Y / N

T0270

SAMPLE TYPE CODE:
AQ=Aqueous
NA= Non Aqueous
SL = Sludge
DW = Drinking Water
WW = Waste Water
RW = Rain Water
GW = Ground Water
SO = Soil
SW = Solid Waste
OL = Oil
OT = Other Matrix

PRESCHEDULED RUSH ANALYSES WILL TAKE PRIORITY OVER UNSCHEDULED RUSH REQUESTS
Client agrees to Terms & Conditions at: www.wecklabs.com

SPECIAL REQUIREMENTS / BILLING INFORMATION
PO No. 2021-0783

COC version 04132016

WECK LABORATORIES, INC.

Sample Receipt Checklist

Weck WKO: 3B09043
WKO Logged by: Algabriel Holanda
Samples Checked by: ATH
Date/Time Received: 02/08/23 @ 17:47
# of Samples: 1
Delivered by: RMS

	Task	Yes	No	N/A	Comments
COC	COC present at receipt?	☒	☐		
	COC properly completed?	☒	☐		
	COC matches sample labels?	☒	☐		
	Project Manager notified?	☐	☐	☒	
Receipt Information	Sample Temperature	2.9°C			
	Samples received on ice?	☒	☐		
	Ice Type (Blue/Wet)	Blue			
	All samples intact?	☒	☐		
	Samples in proper containers?	☒	☐		
	Sufficient sample volume?	☒	☐		
	Received within holding time?	☒	☐		
	Project Manager notified?	☐	☐	☒	
Sample Preservation Verification?	Sample labels checked for correct preservation?	☒	☐	☐	
	VOC Headspace: (No) none, If Yes (See comment) 524.2, 524.3, 624.1, 8260, 1666 P/T, LUFT	☐	☒	☐	☐ <6mm/Pea size?
	pH verified upon receipt? Metals <2; H2SO4 pres tests <2; 522<4; TOC <2; 508.1, 525.2<2; 6710B<2; 608.3 5-9	☒	☐	☐	pH paper Lot# 3011190
	Free Chlorine Tested <0.1 (Organics Analyses)	☒	☐	☐	Cl Test Strip Lot# 061221E
	O&G pH <2 verified?	☐	☐	☐	pH paper Lot#
	pH adjusted for O&G	☐	☐	☐	pH Reading: Acid Lot# Amt added:
	Project Manager notified?	☐	☐	☒	

PM Comments

Sample Receipt Checklist Prepared by:

Signature: _____ Date: 02/09/2023

WECK LABORATORIES, INC.

Subcontract Orde

Subcontracted Laboratory:

Pace Analytical Services - Minneapolis MN
1700 Elm St. SE, Suite 200
Minneapolis, MN 55414
Phone: (612) 607-1700
Fax:

Turn Around Time: Normal unless noted in comments
Client Manager: Kim G. Tu
Project Name: Encina WW Authority
Sampler Employed by: _____
Drinking Water: Yes / (No)
Need Transfer File (xls): (Yes) / No
Tracking Number: _____

Project Number: 3B09043

Analysis	Expires	Comments
Sample Name: 3B09043-01/Meadowlark Influent		
Sampled: 02/08/2023 07:00	Matrix: Water	Sampled By: CD
Dioxins/Furans - EPA 8290	03/10/2023 07:00	

Remarks / Special Comments:

Sample Condition
Temperature: _____
Preserved: Yes / No
Evidence Seal Intact: Yes / No
Container Attacked: Yes / No
Preserved at Lab: Yes / No

Relinqished By	Date / Time	Received By	Date / Time
Mideri Paniagua	02/28	Fed Ex	
Relinqished By	Date / Time	Received By	Date / Time

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Pace Analytical™
www.pacelabs.com

Pace Analytical Services, LLC.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

Report Prepared for:

Kim Tu
Weck Laboratories Inc
14859 Clark Avenue
Industry CA 91745

REPORT OF LABORATORY ANALYSIS FOR PCDD/PCDF

Report Information:

Pace Project #: 10644346
Sample Receipt Date: 03/01/2023
Client Project #: 3B09043
Client Sub PO #: N/A
State Cert #: 2929

Invoicing & Reporting Options:

The report provided has been invoiced as a Level 2 PCDD/PCDF Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Joanne Richardson, your Pace Project Manager.

This report has been reviewed by:

Joanne Richardson

March 09, 2023

Joanne Richardson,
(612) 607-6453
(612) 607-6444 (fax)

Report Prepared Date:
March 9, 2023

Report of Laboratory Analysis

Pace Analytical Services, LLC.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

DISCUSSION

This report presents the results from the analysis performed on one sample submitted by a representative of Weck Laboratories, Inc. The sample was analyzed for the presence or absence of polychlorodibenzo-p-dioxins (PCDDs) and polychlorodibenzofurans (PCDFs) using a modified version of USEPA Method 8290. The reporting limits were set to correspond to the lowest calibration points and a nominal 1-liter sample amount, and the sensitivity was verified by signal-to-noise measurements. The quantitation limits, adjusted for sample extraction amount, may be somewhat higher or lower than the reporting limits provided in this report.

The recoveries of the isotopically-labeled PCDD/PCDF internal standards in the sample extract ranged from 36-74%. Except for one low value, which was flagged "R" on the results table, the labeled internal standard recoveries obtained for this project were within the 40-135% target range specified in Method 8290. Since the quantification of the native 2,3,7,8-substituted congeners was based on isotope dilution, the data were automatically corrected for variation in recovery and accurate values were obtained.

A laboratory method blank was prepared and analyzed with the sample batch as part of our routine quality control procedures. The results show the blank to be free of PCDDs and PCDFs at the reporting limits.

A laboratory spike sample was also prepared with the sample batch using clean reference matrix that had been fortified with native standard materials. The results show that the spiked native compounds were recovered at 88-114%. These results were within the target range for the method. Matrix spikes were prepared with the sample batch using sample material from a separate project; results from these analyses will be provided upon request.

The responses obtained for selected labeled congeners in calibration standard analysis L230307A_19 were outside the target range. As specified in our procedures for this method, the averages of the daily response factors for these compounds were used in the calculations for the samples from this runshift. The affected values were flagged "Y" on the results tables.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
		Missouri	10100
A2LA	2926.01	Montana	CERT0092
Alabama	40770	Nebraska	NE-OS-18-06
Alaska-DW	MN00064	Nevada	MN00064
Alaska-UST	17-009	New Hampshire	2081
Arizona	AZ0014	New Jersey	MN002
Arkansas - WW	88-0680	New York	11647
Arkansas-DW	MN00064	North Carolina-	27700
California	2929	North Carolina-	530
Colorado	MN00064	North Dakota	R-036
Connecticut	PH-0256	Ohio-DW	41244
Florida	E87605	Ohio-VAP (170	CL101
Georgia	959	Ohio-VAP (180	CL110
Hawaii	MN00064	Oklahoma	9507
Idaho	MN00064	Oregon-Primary	MN300001
Illinois	200011	Oregon-Second	MN200001
Indiana	C-MN-01	Pennsylvania	68-00563
Iowa	368	Puerto Rico	MN00064
Kansas	E-10167	South Carolina	74003
Kentucky-DW	90062	Tennessee	TN02818
Kentucky-WW	90062	Texas	T104704192
Louisiana-DEQ	AI-84596	Utah	MN00064
Louisiana-DW	MN00064	Vermont	VT-027053137
Maine	MN00064	Virginia	460163
Maryland	322	Washington	C486
Michigan	9909	West Virginia-D	382
Minnesota	027-053-137	West Virginia-D	9952C
Minnesota-Ag	via MN 027-053	Wisconsin	999407970
Minnesota-Petr	1240	Wyoming-UST	via A2LA 2926.
Mississippi	MN00064		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444
www.pacelabs.com

Appendix A

Sample Management

REPORT OF LABORATORY ANALYSIS

WECK LABORATORIES, INC.

WO# : 10644346

10644346

Subcontract Order

Subcontracted Laboratory:

Pace Analytical Services - Minneapolis MN
1700 Elm St. SE, Suite 200
Minneapolis, MN 55414
Phone: (612) 607-1700
Fax:

e: Normal unless noted in comments

Client Manager: Kim G. Tu

Project Name: Encina WW Authority

Sampler Employed by: _____

Drinking Water: Yes / (No)

Need Transfer File (xls): (Yes) / No

Tracking Number: _____

Project Number: 3B09043

Analysis	Expires	Comments
Sample Name: 3B09043-01/Meadowlark Influent		
Sampled: 02/08/2023 07:00	Matrix: Water	Sampled By: CD
Dioxins/Furans - EPA 8290	03/10/2023 07:00	

001

Remarks / Special Comments:

Sample Condition

Temperature: 1.0, 1.8

Preserved: Yes / No

Evidence Seal Intact: Yes / No

Container Attacked: Yes / No

Preserved at Lab: Yes / No

Mideri Penagos	02/28	Fed Ex	
Relinqished By	Date / Time	Received By	Date / Time
		M Rue	3/1/23 10:30
Relinqished By	Date / Time	Received By	Date / Time

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www.wecklabs.com

Sample Condition Upon Receipt

Client Name: Week labs

Project #:

WO# : 10644346

PM: JMR **Due Date: 03/15/23**

CLIENT: Week Laborat

Courier: ☑ FedEx ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ SpeeDee ☐ Commercial

Tracking Number: 2214 3440 4643 4637 ☐ See Exceptions ENV-FRM-MIN4-0142

Custody Seal on Cooler/Box Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☑ No **Biological Tissue Frozen?** ☐ Yes ☐ No ☑ N/A

Packing Material: ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other **Temp Blank?** ☐ Yes ☑ No

Thermometer: ☐ T1 (0461) ☐ T2 (1336) ☐ T3 (0459) ☐ T4 (0254) ☐ T5 (0178) ☐ T6 (0235) ☐ T7 (0042) ☐ T8 (0775) ☐ T9(0727) ☐ 01339252/1710 **Type of Ice:** ☑ Wet ☐ Blue ☐ Dry ☐ None ☐ Melted

Did Samples Originate in West Virginia? ☐ Yes ☑ No **Were All Container Temps Taken?** ☐ Yes ☐ No ☑ N/A

Temp should be above freezing to 6 °C **Cooler temp Read w/Temp Blank:** _____ °C

Correction Factor: -.1 **Cooler Temp Corrected w/temp blank:** _____ °C

Average Corrected Temp (no temp blank only): 10.1.8 °C ☐ See Exceptions ENV-FRM-MIN4-0142 ☐ 1 Container

USDA Regulated Soil: (☑ N/A, water sample/other: _____)

Date/Initials of Person Examining Contents: 3/1/23 M

Did samples originate in a quarantine zone within the United States: AL, AR, AZ CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MIN4-0154) and include with SCUR/COC paperwork.

Location (Check one): ☐ Duluth ☑ Minneapolis ☐ Virginia				**COMMENTS**
Chain of Custody Present and Filled Out?	☑ Yes	☐ No		1.
Chain of Custody Relinquished?	☑ Yes	☐ No		2.
Sampler Name and/or Signature on COC?	☐ Yes	☐ No	☑ N/A	3.
Samples Arrived within Hold Time?	☑ Yes	☐ No		4. If fecal: ☐ <8 hrs ☐ >8 hr, <24 ☐ No
Short Hold Time Analysis (<72 hr)?	☐ Yes	☑ No		5. ☐ Fecal Coliform ☐ HPC ☐ Total Coliform/E.coli ☐ BOD/cBOD ☐ Hex Chrom ☐ Turbidity ☐ Nitrate ☐ Nitrite ☐ Orthophos ☐ Other _____
Rush Turn Around Time Requested?	☐ Yes	☑ No		6.
Sufficient Sample Volume?	☑ Yes	☐ No		7.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	8.
-Pace Containers Used?	☐ Yes	☑ No		
Containers Intact?	☑ Yes	☐ No		9.
Field Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☑ N/A	10. Is sediment visible in the dissolved container? ☐ Yes ☐ No
Is sufficient information available to reconcile the samples to the COC?	☑ Yes	☐ No		11. **If no, write ID/Date/Time of container below:** ☐ See Exceptions ENV-FRM-MIN4-0142
Matrix: ☑ Water ☐ Soil ☐ Oil ☐ Other				
All containers needing acid/base preservation have been checked?	☐ Yes	☐ No	☑ N/A	12. Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO3, H2SO4, <2pH, NaOH >9 Sulfide, NaOH>10 Cyanide)	☐ Yes	☐ No	☑ N/A	☐ NaOH ☐ HNO3 ☐ H2SO4 ☐ Zinc Acetate
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxins/PFAS (*If adding preservative to a container, it must be added to associated field and equipment blanks--verify with PM first.)	☑ Yes	☐ No	☐ N/A	Positive for Residual Chlorine? ☐ Yes ☐ No ☐ See Exceptions ENV-FRM-MIN4-0142 **pH Paper Lot #** Residual Chlorine | 0-6 Roll | 0-6 Strip | 0-14 Strip
Headspace in Methyl Mercury Container?	☐ Yes	☐ No	☑ N/A	13.
Extra labels present on soil VOA or WIDRO containers?	☐ Yes	☐ No	☑ N/A	14. ☐ See Exceptions ENV-FRM-MIN4-0142
Headspace in VOA Vials (greater than 6mm)?	☐ Yes	☐ No	☑ N/A	
3 Trip Blanks Present?	☐ Yes	☐ No	☑ N/A	15.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	Pace Trip Blank Lot # (if purchased): _____

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: Joanne Richardson Type text here **Date:** 3-1-23

NOTE: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled By: NF **Line:** (3)

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-MIN4-0142 v02_Sample Condition Upon Receipt (SCUR) Exception Form
	Effective Date: 09/22/2022

Workorder #: 10644346

No Temp Blank		
Read Temp	Corrected Temp	Average temp
0.3	0.2	1.0
1.2	1.1	
2.1	2.0	
0.8	0.7	

PM Notified of Out of Temp Cooler? ☐ Yes ☐ No
If yes, indicate who was contacted, date and time. If no, indicate reason why.
Multiple Cooler Project? ☐ Yes ☐ No

If anything is OVER 6.0° C, you MUST document containers in this section HERE

Tracking Number	Temperature

Out of Temp Sample ID	Container Type	# of Containers

pH Adjustment Log for Preserved Samples										
Sample ID	Type Of Preserve	pH Upon Receipt	Date Adjusted	Time Adjusted	Amount Added (mL)	Lot # Added	pH After	In Compliance After Addition?		Initials
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	

Comments:

Qualtrax ID: 52763

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-MIN4-0142 v02_Sample Condition Upon Receipt (SCUR) Exception Form
	Effective Date: 09/22/2022

Workorder #: 10644346

No Temp Blank		
Read Temp	Corrected Temp	Average temp
~~2.0~~	1.9	1.8
2.0	1.9	
1.5	1.4	
~~2.2~~	2.1	

PM Notified of Out of Temp Cooler? ☐ Yes ☐ No
If yes, indicate who was contacted, date and time. If no, indicate reason why.
Multiple Cooler Project? ☐ Yes ☐ No

If anything is OVER 6.0° C, you MUST document containers in this section HERE

Tracking Number	Temperature

Out of Temp Sample ID	Container Type	# of Containers

pH Adjustment Log for Preserved Samples										
Sample ID	Type Of Preserve	pH Upon Receipt	Date Adjusted	Time Adjusted	Amount Added (mL)	Lot # Added	pH After	In Compliance After Addition?		Initials
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	

Comments:

Qualtrax ID: 52763

Pace Analytical Services, LLC
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444
www.pacelabs.com

Reporting Flags

A = Reporting Limit based on signal to noise (EDL)

B = Less than 10x higher than method blank level

C = Result obtained from confirmation analysis

D = Result obtained from analysis of diluted sample

E = Exceeds calibration range

H2 = Extracted outside of holding time

I = Isotope ratio out of specification

J = Estimated value

L = Suppressive interference, analyte may be biased low

Nn = Value obtained from additional analysis

P = PCDE Interference

R = Recovery outside target range

S = Peak saturated

U = Analyte not detected

V = Result verified by confirmation analysis

X = %D Exceeds limits

Y = Calculated using average of daily RFs

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444
www.pacelabs.com

Appendix B

Sample Analysis Summary

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Sample Analysis Results

Client - Weck Laboratories Inc

Client's Sample ID	3B09043-01/Meadowlark Influent		
Lab Sample ID	10644346001		
Filename	L230305A_16		
Injected By	JRH		
Total Amount Extracted	974 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	02/08/2023 07:00
ICAL ID	L230302	Received	03/01/2023 10:30
CCal Filename(s)	L230305A_01 & L230305A_18	Extracted	03/02/2023 11:02
Method Blank ID	BLANK-104384	Analyzed	03/05/2023 20:13

Native Isomers	Conc pg/L	EMPC pg/L	RL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	10	2,3,7,8-TCDF-13C	2.00	65
Total TCDF	ND	-----	10	2,3,7,8-TCDD-13C	2.00	61
				1,2,3,7,8-PeCDF-13C	2.00	70
2,3,7,8-TCDD	ND	-----	10	2,3,4,7,8-PeCDF-13C	2.00	71
Total TCDD	ND	-----	10	1,2,3,7,8-PeCDD-13C	2.00	74
				1,2,3,4,7,8-HxCDF-13C	2.00	36 R
1,2,3,7,8-PeCDF	ND	-----	50	1,2,3,6,7,8-HxCDF-13C	2.00	59
2,3,4,7,8-PeCDF	ND	-----	50	2,3,4,6,7,8-HxCDF-13C	2.00	61
Total PeCDF	ND	-----	50	1,2,3,7,8,9-HxCDF-13C	2.00	44
				1,2,3,4,7,8-HxCDD-13C	2.00	58
1,2,3,7,8-PeCDD	ND	-----	50	1,2,3,6,7,8-HxCDD-13C	2.00	61
Total PeCDD	ND	-----	50	1,2,3,4,6,7,8-HpCDF-13C	2.00	53
				1,2,3,4,7,8,9-HpCDF-13C	2.00	47
1,2,3,4,7,8-HxCDF	ND	-----	50	1,2,3,4,6,7,8-HpCDD-13C	2.00	58
1,2,3,6,7,8-HxCDF	ND	-----	50	OCDD-13C	4.00	47
2,3,4,6,7,8-HxCDF	ND	-----	50			
1,2,3,7,8,9-HxCDF	ND	-----	50	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	50	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	50	2,3,7,8-TCDD-37Cl4	0.20	73
1,2,3,6,7,8-HxCDD	ND	-----	50			
1,2,3,7,8,9-HxCDD	ND	-----	50			
Total HxCDD	ND	-----	50			
1,2,3,4,6,7,8-HpCDF	ND	-----	50	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	50	Equivalence: 0.00 pg/L		
Total HpCDF	ND	-----	50	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	50			
Total HpCDD	ND	-----	50			
OCDF	ND	-----	100			
OCDD	ND	-----	100			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

R = Recovery outside target range

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Blank Analysis Results

Lab Sample Name	DFBLKXR		
Lab Sample ID	BLANK-104384	Matrix	Water
Filename	L230307A_02	Dilution	NA
Total Amount Extracted	989 mL	Extracted	03/02/2023 11:02
ICAL ID	L230302	Analyzed	03/07/2023 10:15
CCal Filename(s)	L230306B_17 & L230307A_19	Injected By	SMT

Native Isomers	Conc pg/L	EMPC pg/L	RL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	10	2,3,7,8-TCDF-13C	2.00	75
Total TCDF	ND	-----	10	2,3,7,8-TCDD-13C	2.00	67
				1,2,3,7,8-PeCDF-13C	2.00	83
2,3,7,8-TCDD	ND	-----	10	2,3,4,7,8-PeCDF-13C	2.00	83
Total TCDD	ND	-----	10	1,2,3,7,8-PeCDD-13C	2.00	83
				1,2,3,4,7,8-HxCDF-13C	2.00	78
1,2,3,7,8-PeCDF	ND	-----	50	1,2,3,6,7,8-HxCDF-13C	2.00	78
2,3,4,7,8-PeCDF	ND	-----	50	2,3,4,6,7,8-HxCDF-13C	2.00	76
Total PeCDF	ND	-----	50	1,2,3,7,8,9-HxCDF-13C	2.00	68
				1,2,3,4,7,8-HxCDD-13C	2.00	68
1,2,3,7,8-PeCDD	ND	-----	50	1,2,3,6,7,8-HxCDD-13C	2.00	68
Total PeCDD	ND	-----	50	1,2,3,4,6,7,8-HpCDF-13C	2.00	57
				1,2,3,4,7,8,9-HpCDF-13C	2.00	72 Y
1,2,3,4,7,8-HxCDF	ND	-----	50	1,2,3,4,6,7,8-HpCDD-13C	2.00	74 Y
1,2,3,6,7,8-HxCDF	ND	-----	50	OCDD-13C	4.00	69 Y
2,3,4,6,7,8-HxCDF	ND	-----	50			
1,2,3,7,8,9-HxCDF	ND	-----	50	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	50	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	50	2,3,7,8-TCDD-37Cl4	0.20	84
1,2,3,6,7,8-HxCDD	ND	-----	50			
1,2,3,7,8,9-HxCDD	ND	-----	50			
Total HxCDD	ND	-----	50			
1,2,3,4,6,7,8-HpCDF	ND	-----	50	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	50	Equivalence: 0.00 pg/L		
Total HpCDF	ND	-----	50	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	50			
Total HpCDD	ND	-----	50			
OCDF	ND	-----	100			
OCDD	ND	-----	100			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

Y = Calculated using average of daily RFs

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Laboratory Control Spike Results

Lab Sample ID	LCS-104385		
Filename	U230305A_08	Matrix	Water
Total Amount Extracted	999 mL	Dilution	NA
ICAL ID	U221005	Extracted	03/02/2023 11:02
CCal Filename(s)	U230305A_01 & U230305A_16	Analyzed	03/05/2023 15:43
Method Blank ID	BLANK-104384	Injected By	JRH

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.21	104	2,3,7,8-TCDF-13C	2.0	83
Total TCDF				2,3,7,8-TCDD-13C	2.0	70
				1,2,3,7,8-PeCDF-13C	2.0	86
2,3,7,8-TCDD	0.20	0.22	112	2,3,4,7,8-PeCDF-13C	2.0	84
Total TCDD				1,2,3,7,8-PeCDD-13C	2.0	85
				1,2,3,4,7,8-HxCDF-13C	2.0	86
1,2,3,7,8-PeCDF	1.0	1.0	100	1,2,3,6,7,8-HxCDF-13C	2.0	88
2,3,4,7,8-PeCDF	1.0	1.1	107	2,3,4,6,7,8-HxCDF-13C	2.0	85
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.0	81
				1,2,3,4,7,8-HxCDD-13C	2.0	72
1,2,3,7,8-PeCDD	1.0	0.97	97	1,2,3,6,7,8-HxCDD-13C	2.0	83
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.0	66
				1,2,3,4,7,8,9-HpCDF-13C	2.0	67
1,2,3,4,7,8-HxCDF	1.0	1.0	101	1,2,3,4,6,7,8-HpCDD-13C	2.0	73
1,2,3,6,7,8-HxCDF	1.0	1.1	108	OCDD-13C	4.0	61
2,3,4,6,7,8-HxCDF	1.0	1.1	110			
1,2,3,7,8,9-HxCDF	1.0	1.0	104	1,2,3,4-TCDD-13C	2.0	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.0	NA
1,2,3,4,7,8-HxCDD	1.0	1.1	113	2,3,7,8-TCDD-37Cl4	0.20	85
1,2,3,6,7,8-HxCDD	1.0	0.99	99			
1,2,3,7,8,9-HxCDD	1.0	1.0	104			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	1.0	1.0	105			
1,2,3,4,7,8,9-HpCDF	1.0	1.0	100			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	1.0	0.88	88			
Total HpCDD						
OCDF	2.0	2.3	114			
OCDD	2.0	1.9	97			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
R = Recovery outside of target range

Y = RF averaging used in calculations
Nn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

REPORT OF LABORATORY ANALYSIS

SAMPLE RESULTS REPORT

Report Date : 11/1/2023

REPORT TO	ELAP Certification No. 1441 230314001

Sample ID	Sample Point	Analyte Name	Result	Units	Method Reference
AB47179	**Meadowlark Influent priority pollutants**			**Collected: 02/08/2023**	**Time: 07:34**
		Zinc by ICP	**0.22**	mg/L	EPA 200.7
		Thallium by ICP	**<0.02**	mg/L	EPA 200.7
		Silver by ICP	**<0.026**	mg/L	EPA 200.7
		Selenium by ICP	**<0.024**	mg/L	EPA 200.7
		Nickel by ICP	**<0.18**	mg/L	EPA 200.7
		Molybdenum by ICP	**<0.018**	mg/L	EPA 200.7
		Mercury	**<0.00020**	mg/L	EPA 245.1
		Lead by ICP	**<0.02**	mg/L	EPA 200.7
		Cyanide, Total	**<0.025**	mg/L	SM4500CN-E
		Copper by ICP	**0.144**	mg/L	EPA 200.7
		Chromium by ICP	**<0.018**	mg/L	EPA 200.7
		Cadmium by ICP	**<0.018**	mg/L	EPA 200.7
		Beryllium by ICP	**<0.018**	mg/L	EPA 200.7
		Arsenic by ICP	**<0.016**	mg/L	EPA 200.7
		Antimony by ICP	**<0.026**	mg/L	EPA 200.7

Certified By: Rachael Morgan **Date:** 11/1/23

Rachael Morgan, Laboratory Manager

eSMR PDF Report

Summary: Semi-Annual SMR (MONNPDES) report for H1 2023

Summary: Semi-Annual SMR (MONNPDES) report for H1 2023 submitted by Octavio Navarrete (Chief Plant Operator) on 07/26/2023.

Facility Name: Carlsbad WRF **/** Encina Ocean Outfall **/** Encina Water Pollution Control Facility **/** Vallecitos WD Meadowlark WRP

Waterboard Office: Region 9 - San Diego **/** Region 9 - San Diego **/** Region 9 - San Diego **/** Region 9 - San Diego

Report Effective Dates: 01/01/2023 - 06/30/2023

Order Number: R9-2018-0059

Case Worker: Joann L Lim

No Discharge Periods

Name	Description	Dates	Comments
Encina Ocean Outfall 001	POTW Effluent and waste brine		No Discharge Flows from M-005.

Self-Determined Violations

No Violations Entered

Attachments

No Attachments Available

Cover Letter

Title
SDRWQCB, Attached is the January-June 2023 Semi Annual NPDES Monitoring Report. Sincerely, EWA Staff

Data Summary

Analytical Results

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Analytical Method	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-004	- -	- water	1,1,1-Trichloroethane E624	02/13/2023 09:30:00 02/16/2023	- 1 -	ND ug/L	.19 - .5	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	1,1,1-Trichloroethane E624	02/13/2023 09:30:00 02/16/2023	- 1 -	ND lb/day	.0421 - .1107	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	1,1,2,2-Tetrachloroethane E624	02/13/2023 09:30:00 02/16/2023	- 1 -	ND lb/day	.0332 - .1107	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	1,1,2,2-Tetrachloroethane E624	02/13/2023 09:30:00 02/16/2023	- 1 -	ND ug/L	.15 - .5	No -		CDF_Analytical_Calculated_07212023.zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Analytical Method	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-004	- -	- water	1,1,2-Trichloroethane E624	02/13/2023 09:30:00 02/16/2023	- 1 -	ND ug/L	.16 - .5	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	1,1,2-Trichloroethane E624	02/13/2023 09:30:00 02/16/2023	- 1 -	ND lb/day	.0354 - .1107	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	1,1-Dichloroethylene E624	02/13/2023 09:30:00 02/16/2023	- 1 -	ND ug/L	.21 - .5	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	1,1-Dichloroethylene E624	02/13/2023 09:30:00 02/16/2023	- 1 -	ND lb/day	.0465 - .1107	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	1,2-Dichlorobenzene E624	02/13/2023 09:30:00 02/16/2023	- 1 -	ND ug/L	.27 - .5	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	1,2-Dichlorobenzene E624	02/13/2023 09:30:00 02/16/2023	- 1 -	ND lb/day	.0598 - .1107	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	1,2-Dichloroethane E624	02/13/2023 09:30:00 02/16/2023	- 1 -	ND lb/day	.0376 - .1107	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	1,2-Dichloroethane E624	02/13/2023 09:30:00 02/16/2023	- 1 -	ND ug/L	.17 - .5	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	1,2-Diphenylhydrazine E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.5 - 1	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	1,2-Diphenylhydrazine E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.1121 - .2242	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	1,3-Dichlorobenzene E624	02/13/2023 09:30:00 02/16/2023	- 1 -	ND lb/day	.0398 - .1107	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	1,3-Dichlorobenzene E624	02/13/2023 09:30:00 02/16/2023	- 1 -	ND ug/L	.18 - .5	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	1,4-Dichlorobenzene E624	02/13/2023 09:30:00 02/16/2023	- 1 -	ND ug/L	.18 - .5	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	1,4-Dichlorobenzene E624	02/13/2023 09:30:00 02/16/2023	- 1 -	ND lb/day	.0398 - .1107	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	2,4,6-Trichlorophenol E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.0897 - .4484	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	2,4,6-Trichlorophenol E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.4 - 2	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	2,4-DDD E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.003 - .005	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	2,4-DDD E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.0004 - .0011	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	2,4-DDE E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.0004 - .0011	No -		CDF_Analytical_Calculated_07212023.zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Analytical Method	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-004	- -	- water	2,4-DDE E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.002 - .005	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	2,4-DDT E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.0007 - .0011	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	2,4-DDT E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.002 - .005	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	2,4-Dinitrophenol E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.4484 - 1.1209	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	2,4-Dinitrophenol E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	2 - 5	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	2,4-Dinitrotoluene E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.9 - 5	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	2,4-Dinitrotoluene E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.2018 - 1.1209	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	3,3-Dichlorobenzidine E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	5 - 5	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	3,3-Dichlorobenzidine E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	1.1209 - 1.1209	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	4,4-DDD E625	02/02/2023 09:00:00 02/09/2023	- 1 -	ND ug/L	.001 - .01	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	4,4-DDD E625	02/02/2023 09:00:00 02/09/2023	- 1 -	ND lb/day	.0009 - .0022	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	4,4-DDE E625	02/02/2023 09:00:00 02/09/2023	- 1 -	ND ug/L	.001 - .01	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	4,4-DDE E625	02/02/2023 09:00:00 02/09/2023	- 1 -	ND lb/day	.0002 - .0022	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	4,4-DDT E625	02/02/2023 09:00:00 02/09/2023	- 1 -	ND ug/L	.004 - .01	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	4,4-DDT E625	02/02/2023 09:00:00 02/09/2023	- 1 -	ND lb/day	.0002 - .0022	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	4,6-Dinitro-2-methylphenol E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.4484 - 1.1209	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	4,6-Dinitro-2-methylphenol E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	2 - 5	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Acenaphthylene E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.02 - .2	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Acenaphthylene E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.0045 - .0448	No -		CDF_Analytical_Calculated_07212023.zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Analytical Method	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-004	- -	- water	Acrolein E624	02/13/2023 09:30:00 02/16/2023	- 1 -	ND ug/L	.81 - 2	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Acrolein E624	02/13/2023 09:30:00 02/16/2023	- 1 -	ND lb/day	.1793 - .4427	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Acrylonitrile E624	02/13/2023 09:30:00 02/16/2023	- 1 -	ND lb/day	.166 - .4427	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Acrylonitrile E624	02/13/2023 09:30:00 02/16/2023	- 1 -	ND ug/L	.75 - 2	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Aldrin E625	02/02/2023 09:00:00 02/09/2023	- 1 -	ND ug/L	.003 - .005	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Aldrin E625	02/02/2023 09:00:00 02/09/2023	- 1 -	ND lb/day	.0007 - .0011	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Anthracene E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.0067 - .0673	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Anthracene E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.03 - .3	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Antimony, Total Recoverable E200.7	01/31/2023 07:00:00 02/13/2023	- 1 -	ND lb/day	1.4992 - 3.2483	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Antimony, Total Recoverable E200.7	01/31/2023 07:00:00 02/13/2023	- 1 -	ND ug/L	6 - 13	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Benzene E624	02/13/2023 09:30:00 02/16/2023	- 1 -	ND ug/L	.18 - .5	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Benzene E624	02/13/2023 09:30:00 02/16/2023	- 1 -	ND lb/day	.0398 - .2213	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Benzidine E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	4 - 5	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Benzidine E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.2018 - .2242	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Benzo(a)anthracene E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.05 - .3	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Benzo(a)anthracene E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.0112 - .0673	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Benzo(a)pyrene E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.04 - .3	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Benzo(a)pyrene E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.009 - .0673	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Benzo(b)fluoranthene E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.05 - .3	No -		CDF_Analytical_Calculated_07212023.zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Analytical Method	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-004	- -	- water	Benzo(b)fluoranthene E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.0112 - .0673	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Benzo(ghi)perylene E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.0112 - .0224	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Benzo(ghi)perylene E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.05 - .1	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Benzo(k)fluoranthene E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.0045 - .0673	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Benzo(k)fluoranthene E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.02 - .3	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Beryllium, Total Recoverable E200.8	01/31/2023 07:00:00 02/06/2023	- 1 -	ND lb/day	.055 - .1249	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Beryllium, Total Recoverable E200.8	01/31/2023 07:00:00 02/06/2023	- 1 -	ND ug/L	.22 - .5	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	BHC, Sum E625	02/02/2023 09:00:00 02/09/2023	- 1 -	ND lb/day	.0029 - .0067	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	BHC, Sum E625	02/02/2023 09:00:00 02/09/2023	- 1 -	ND ug/L	.013 - .03	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Bis (2-Chloroethoxy) Methane E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.5 - 5	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Bis (2-Chloroethoxy) Methane E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.1121 - 1.1209	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Bis (2-Chloroethyl) Ether E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.2018 - .2242	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Bis (2-Chloroethyl) Ether E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.9 - 1	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Bis (2-Chloroisopropyl) Ether E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.9 - 2	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Bis (2-Chloroisopropyl) Ether E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.2018 - .4484	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Bis (2-Ethylhexyl) Phthalate E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.1121 - .2242	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Bis (2-Ethylhexyl) Phthalate E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.5 - 1	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Bromoform E624	02/13/2023 09:30:00 02/16/2023	- 1 -	ND ug/L	.15 - .5	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Bromoform E624	02/13/2023 09:30:00 02/16/2023	- 1 -	ND lb/day	.0332 - .1107	No -		CDF_Analytical_Calculated_07212023.zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Analytical Method	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-004	- -	- water	Bromomethane E624	02/13/2023 09:30:00 02/16/2023	- 1 -	ND ug/L	.13 - .5	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Bromomethane E624	02/13/2023 09:30:00 02/16/2023	- 1 -	ND lb/day	.0288 - .1107	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Carbon Tetrachloride E624	02/13/2023 09:30:00 02/16/2023	- 1 -	ND lb/day	.0354 - .1107	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Carbon Tetrachloride E624	02/13/2023 09:30:00 02/16/2023	- 1 -	ND ug/L	.16 - .5	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Chlordane E625	02/02/2023 09:00:00 02/09/2023	- 1 -	ND ug/L	.003 - .01	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Chlordane E625	02/02/2023 09:00:00 02/09/2023	- 1 -	ND lb/day	.0007 - .0022	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Chlorobenzene E624	02/13/2023 09:30:00 02/16/2023	- 1 -	ND lb/day	.0398 - .1107	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Chlorobenzene E624	02/13/2023 09:30:00 02/16/2023	- 1 -	ND ug/L	.18 - .5	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Chloroform E624	02/13/2023 09:30:00 02/16/2023	- 1 -	= 0.398 lb/day	.0376 - .1107	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Chloroform E624	02/13/2023 09:30:00 02/16/2023	- 1 -	= 1.8 ug/L	.17 - .5	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Chloromethane E624	02/13/2023 09:30:00 02/16/2023	- 1 -	ND ug/L	.13 - .5	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Chloromethane E624	02/13/2023 09:30:00 02/16/2023	- 1 -	ND lb/day	.0288 - .1107	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Chrysene E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.0112 - .0673	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Chrysene E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.05 - .3	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	cis-1,3-Dichloropropene E624	02/13/2023 09:30:00 02/16/2023	- 1 -	ND lb/day	.0199 - .1107	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	cis-1,3-Dichloropropene E624	02/13/2023 09:30:00 02/16/2023	- 1 -	ND ug/L	.09 - .5	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	DDT/DDD/DDE, Sum of P,P & O,P Isomers E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.013 - .045	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	DDT/DDD/DDE, Sum of P,P & O,P Isomers E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.0029 - .0101	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Di-n-butyl Phthalate E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.0897 - 1.1209	No -		CDF_Analytical_Calculated_07212023.zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Analytical Method	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-004	- -	- water	Di-n-butyl Phthalate E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.4 - 5	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Dibenzo(a,h)anthracene E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.05 - .1	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Dibenzo(a,h)anthracene E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.0112 - .0224	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Dibromochloromethane E624	02/13/2023 09:30:00 02/16/2023	- 1 -	ND ug/L	.17 - .25	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Dibromochloromethane E624	02/13/2023 09:30:00 02/16/2023	- 1 -	ND lb/day	.0376 - .0553	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Dichlorobenzenes, Sum E624	02/13/2023 09:30:00 02/16/2023	- 1 -	ND ug/L	.45 - 1	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Dichlorobenzenes, Sum E624	02/13/2023 09:30:00 02/16/2023	- 1 -	ND lb/day	.0996 - .2213	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Dichlorobromomethane E624	02/13/2023 09:30:00 02/16/2023	- 1 -	DNQ 0.0641 lb/day	.0177 - .1107	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Dichlorobromomethane E624	02/13/2023 09:30:00 02/16/2023	- 1 -	DNQ 0.29 ug/L	.08 - .5	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Dieldrin E625	02/02/2023 09:00:00 02/09/2023	- 1 -	ND ug/L	.002 - .01	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Dieldrin E625	02/02/2023 09:00:00 02/09/2023	- 1 -	ND lb/day	.0004 - .0022	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Diethyl Phthalate E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.1121 - .4484	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Diethyl Phthalate E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.5 - 2	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Dimethyl Phthalate E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.1121 - .4484	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Dimethyl Phthalate E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.5 - 2	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Endosulfans, Sum DU	02/02/2023 09:00:00 02/09/2023	- 1 -	ND ug/L	.011 - .03	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Endosulfans, Sum E625	02/02/2023 09:00:00 02/09/2023	- 1 -	ND lb/day	.0247 - .0067	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Endrin E625	02/02/2023 09:00:00 02/09/2023	- 1 -	ND lb/day	.00067 - .0022	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Endrin E625	02/02/2023 09:00:00 02/09/2023	- 1 -	ND ug/L	.003 - .01	No -		CDF_Analytical_Calculated_07212023.zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Analytical Method	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-004	- -	- water	Ethylbenzene E624	02/13/2023 09:30:00 02/16/2023	- 1 -	ND lb/day	.0221 - .1107	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Ethylbenzene E624	02/13/2023 09:30:00 02/16/2023	- 1 -	ND ug/L	.1 - .5	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Fluoranthene E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.0045 - .0112	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Fluoranthene E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.02 - .05	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Fluorene E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.02 - .1	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Fluorene E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.0045 - .0224	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Halomethanes, Sum E624	02/13/2023 09:30:00 02/16/2023	- 1 -	ND ug/L	.41 - 1.5	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Halomethanes, Sum E624	02/13/2023 09:30:00 02/16/2023	- 1 -	ND lb/day	.0908 - .332	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Heptachlor E625	02/02/2023 09:00:00 02/09/2023	- 1 -	ND ug/L	.004 - .01	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Heptachlor E625	02/02/2023 09:00:00 02/09/2023	- 1 -	ND lb/day	.0009 - .0022	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Heptachlor Epoxide E625	02/02/2023 09:00:00 02/09/2023	- 1 -	ND ug/L	.001 - .01	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Heptachlor Epoxide E625	02/02/2023 09:00:00 02/09/2023	- 1 -	ND lb/day	.0002 - .0022	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Hexachlorobenzene E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	1 - 1	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Hexachlorobenzene E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.2242 - .2242	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Hexachlorobutadiene E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.4 - 1	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Hexachlorobutadiene E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.0897 - .2242	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Hexachlorocyclopentadiene E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.9 - 1	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Hexachlorocyclopentadiene E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.2018 - .2242	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Hexachloroethane E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.0897 - .2242	No -		CDF_Analytical_Calculated_07212023.zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Analytical Method	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-004	- -	- water	Hexachloroethane E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.4 - 1	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Indeno (1,2,3-cd) Pyrene E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.0112 - .0112	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Indeno (1,2,3-cd) Pyrene E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.05 - .05	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Isophorone E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.5 - 1	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Isophorone E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.1121 - .2242	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Methylene Chloride E624	02/13/2023 09:30:00 02/16/2023	- 1 -	ND lb/day	.0266 - .1107	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Methylene Chloride E624	02/13/2023 09:30:00 02/16/2023	- 1 -	ND ug/L	.12 - .5	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	N-Nitrosodi-n-Propylamine E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.5 - 5	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	N-Nitrosodi-n-Propylamine E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.1121 - 1.1209	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	N-Nitrosodimethylamine E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.7 - 5	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	N-Nitrosodimethylamine E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.1569 - 1.1209	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	N-Nitrosodiphenylamine E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.7 - 1	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	N-Nitrosodiphenylamine E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.1569 - .2242	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Nitrobenzene E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.5 - 1	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Nitrobenzene E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.1121 - .2242	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	PCB-1016 E625	02/02/2023 09:00:00 02/09/2023	- 1 -	ND lb/day	.0067 - .0224	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	PCB-1016 E625	02/02/2023 09:00:00 02/09/2023	- 1 -	ND ug/L	.03 - .1	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	PCB-1221 E625	02/02/2023 09:00:00 02/09/2023	- 1 -	ND ug/L	.03 - .1	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	PCB-1221 E625	02/02/2023 09:00:00 02/09/2023	- 1 -	ND lb/day	.0067 - .0224	No -		CDF_Analytical_Calculated_07212023.zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Analytical Method	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-004	- -	- water	PCB-1232 E625	02/02/2023 09:00:00 02/09/2023	- 1 -	ND lb/day	.0067 - .0224	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	PCB-1232 E625	02/02/2023 09:00:00 02/09/2023	- 1 -	ND ug/L	.03 - .1	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	PCB-1242 E625	02/02/2023 09:00:00 02/09/2023	- 1 -	ND ug/L	.03 - .1	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	PCB-1242 E625	02/02/2023 09:00:00 02/09/2023	- 1 -	ND lb/day	.0067 - .0224	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	PCB-1248 E625	02/02/2023 09:00:00 02/09/2023	- 1 -	ND ug/L	.03 - .1	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	PCB-1248 E625	02/02/2023 09:00:00 02/09/2023	- 1 -	ND lb/day	.0067 - .0224	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	PCB-1254 E625	02/02/2023 09:00:00 02/09/2023	- 1 -	ND ug/L	.03 - .1	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	PCB-1254 E625	02/02/2023 09:00:00 02/09/2023	- 1 -	ND lb/day	.0067 - .0224	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	PCB-1260 E625	02/02/2023 09:00:00 02/09/2023	- 1 -	ND lb/day	.0067 - .0224	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	PCB-1260 E625	02/02/2023 09:00:00 02/09/2023	- 1 -	ND ug/L	.03 - .1	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Phenanthrene E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.0045 - .0112	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Phenanthrene E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.02 - .05	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Phenols, Chlorinated E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.6052 - 2.4659	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Phenols, Chlorinated E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	2.7 - 11	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Phenols, Non-chlorinated E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	7.4 - 33	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Phenols, Non-chlorinated E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	1.6589 - 7.3979	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Polychlorinated Biphenyls (PCBs), Sum E625	02/02/2023 09:00:00 02/09/2023	- 1 -	ND ug/L	.21 - .7	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Polychlorinated Biphenyls (PCBs), Sum E625	02/02/2023 09:00:00 02/09/2023	- 1 -	ND lb/day	.0471 - .1569	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Polynuclear Aromatic Hydrocarbons (PAHs) E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.1054 - .5492	No -		CDF_Analytical_Calculated_07212023.zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Analytical Method	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-004	- -	- water	Polynuclear Aromatic Hydrocarbons (PAHs) E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.47 - 2.45	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Pyrene E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.0045 - .0112	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Pyrene E625	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.02 - .05	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Radiation, Gross Alpha E900	01/31/2023 07:00:00 03/10/2023	- 1 -	= 2.07 PCi/L	- - -	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Radiation, Gross Beta E900	01/31/2023 07:00:00 03/10/2023	- 1 -	= 14.5 PCi/L	- - -	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Radioactivity E900	01/31/2023 07:00:00 03/10/2023	- 1 -	= 16.57 PCi/L	- - -	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	TCDD Equivalents SW8280	01/31/2023 07:00:00 03/05/2023	- 1 -	ND ug/L	.00005 - .00058	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	TCDD Equivalents SW8280	01/31/2023 07:00:00 03/05/2023	- 1 -	ND lb/day	.00001 - .00012	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Tetrachloroethene E624	02/13/2023 09:30:00 02/16/2023	- 1 -	ND ug/L	.19 - .5	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Tetrachloroethene E624	02/13/2023 09:30:00 02/16/2023	- 1 -	ND lb/day	.0421 - .1107	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Thallium, Total Recoverable E200.8	01/31/2023 07:00:00 02/06/2023	- 1 -	ND ug/L	.11 - 1	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Thallium, Total Recoverable E200.8	01/31/2023 07:00:00 02/06/2023	- 1 -	ND lb/day	.0275 - .2499	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Toluene E624	02/13/2023 09:30:00 02/16/2023	- 1 -	ND ug/L	.19 - .5	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Toluene E624	02/13/2023 09:30:00 02/16/2023	- 1 -	ND lb/day	.0421 - .1107	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Toxaphene E625	02/02/2023 09:00:00 02/09/2023	- 1 -	ND lb/day	.0897 - .1121	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Toxaphene E625	02/02/2023 09:00:00 02/09/2023	- 1 -	ND ug/L	.4 - .5	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	TributyItin (TBT) DU	01/31/2023 07:00:00 02/24/2023	- 1 -	ND lb/day	.0006 - .0012	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	TributyItin (TBT) DU	01/31/2023 07:00:00 02/24/2023	- 1 -	ND ug/L	.002 - .005	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Trichloroethene E624	02/13/2023 09:30:00 02/16/2023	- 1 -	ND lb/day	.0443 - .1107	No -		CDF_Analytical_Calculated_07212023.zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Analytical Method	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-004	- -	- water	Trichloroethene E624	02/13/2023 09:30:00 02/16/2023	- 1 -	ND ug/L	.2 - .5	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Vinyl Chloride E624	02/13/2023 09:30:00 02/16/2023	- 1 -	ND ug/L	.25 - .5	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Vinyl Chloride E624	02/13/2023 09:30:00 02/16/2023	- 1 -	ND lb/day	.0553 - .1107	No -		CDF_Analytical_Calculated_07212023.zip

Calculated Values

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Calculation Type	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-004	- -	- water	1,1,1-Trichloroethane 30-Day Average	02/13/2023 09:30:00 02/16/2023	- 1 -	ND lb/day	.0421 - .1107	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	1,1,1-Trichloroethane 30-Day Average	02/13/2023 09:30:00 02/16/2023	- 1 -	ND ug/L	.19 - .5	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	1,1,2,2-Tetrachloroethane 30-Day Average	02/13/2023 09:30:00 02/16/2023	- 1 -	ND ug/L	.15 - .5	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	1,1,2,2-Tetrachloroethane 30-Day Average	02/13/2023 09:30:00 02/16/2023	- 1 -	ND lb/day	.0332 - .1107	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	1,1,2-Trichloroethane 30-Day Average	02/13/2023 09:30:00 02/16/2023	- 1 -	ND lb/day	.0354 - .1107	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	1,1,2-Trichloroethane 30-Day Average	02/13/2023 09:30:00 02/16/2023	- 1 -	ND ug/L	.16 - .5	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	1,1-Dichloroethylene 30-Day Average	02/13/2023 09:30:00 02/16/2023	- 1 -	ND lb/day	.0465 - .1107	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	1,1-Dichloroethylene 30-Day Average	02/13/2023 09:30:00 02/16/2023	- 1 -	ND ug/L	.21 - .5	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	1,2-Dichlorobenzene 30-Day Average	02/13/2023 09:30:00 02/16/2023	- 1 -	ND ug/L	.27 - .5	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	1,2-Dichlorobenzene 30-Day Average	02/13/2023 09:30:00 02/16/2023	- 1 -	ND lb/day	.0598 - .1107	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	1,2-Dichloroethane 30-Day Average	02/13/2023 09:30:00 02/16/2023	- 1 -	ND ug/L	.17 - .5	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	1,2-Dichloroethane 30-Day Average	02/13/2023 09:30:00 02/16/2023	- 1 -	ND lb/day	.0376 - .1107	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	1,2-Diphenylhydrazine 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.5 - 1	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	1,2-Diphenylhydrazine 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.1121 - .2242	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	1,3-Dichlorobenzene 30-Day Average	02/13/2023 09:30:00 02/16/2023	- 1 -	ND ug/L	.18 - .5	No -		CDF_Analytical_Calculated_07212023.zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Calculation Type	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-004	- -	- water	1,3-Dichlorobenzene 30-Day Average	02/13/2023 09:30:00 02/16/2023	- 1 -	ND lb/day	.0398 - .1107	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	1,4-Dichlorobenzene 30-Day Average	02/13/2023 09:30:00 02/16/2023	- 1 -	ND ug/L	.18 - .5	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	1,4-Dichlorobenzene 30-Day Average	02/13/2023 09:30:00 02/16/2023	- 1 -	ND lb/day	.0398 - .1107	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	2,4,6-Trichlorophenol 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.0897 - .4484	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	2,4,6-Trichlorophenol 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.4 - 2	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	2,4-DDD 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.0004 - .0011	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	2,4-DDD 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.003 - .005	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	2,4-DDE 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.002 - .005	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	2,4-DDE 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.0004 - .0011	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	2,4-DDT 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.002 - .005	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	2,4-DDT 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.0007 - .0011	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	2,4-Dinitrophenol 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.4484 - 1.1209	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	2,4-Dinitrophenol 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	2 - 5	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	2,4-Dinitrotoluene 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.2018 - 1.1209	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	2,4-Dinitrotoluene 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.9 - 5	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	3,3-Dichlorobenzidine 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	5 - 5	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	3,3-Dichlorobenzidine 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	1.1209 - 1.1209	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	4,4-DDD 30-Day Average	02/02/2023 09:00:00 02/09/2023	- 1 -	ND ug/L	.001 - .01	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	4,4-DDD 30-Day Average	02/02/2023 09:00:00 02/09/2023	- 1 -	ND lb/day	.0009 - .0022	No -		CDF_Analytical_Calculated_07212023.zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Calculation Type	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-004	- -	- water	4,4-DDE 30-Day Average	02/02/2023 09:00:00 02/09/2023	- 1 -	ND lb/day	.0002 - .0022	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	4,4-DDE 30-Day Average	02/02/2023 09:00:00 02/09/2023	- 1 -	ND ug/L	.001 - .01	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	4,4-DDT 30-Day Average	02/02/2023 09:00:00 02/09/2023	- 1 -	ND ug/L	.004 - .01	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	4,4-DDT 30-Day Average	02/02/2023 09:00:00 02/09/2023	- 1 -	ND lb/day	.0002 - .0022	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	4,6-Dinitro-2-methylphenol 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	2 - 5	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	4,6-Dinitro-2-methylphenol 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.4484 - 1.1209	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Acenaphthylene 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.0045 - .0448	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Acenaphthylene 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.02 - .2	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Acrolein 30-Day Average	02/13/2023 09:30:00 02/16/2023	- 1 -	ND ug/L	.81 - 2	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Acrolein 30-Day Average	02/13/2023 09:30:00 02/16/2023	- 1 -	ND lb/day	.1793 - .4427	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Acrylonitrile 30-Day Average	02/13/2023 09:30:00 02/16/2023	- 1 -	ND lb/day	.166 - .4427	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Acrylonitrile 30-Day Average	02/13/2023 09:30:00 02/16/2023	- 1 -	ND ug/L	.75 - 2	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Aldrin 30-Day Average	02/02/2023 09:00:00 02/09/2023	- 1 -	ND ug/L	.003 - .005	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Aldrin 30-Day Average	02/02/2023 09:00:00 02/09/2023	- 1 -	ND lb/day	.0007 - .0011	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Ammonia, Total (as N) 6-Month Median	01/09/2023 07:00:00 01/19/2023	- 2 -	= 7.38 lb/day	54 - 86	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Ammonia, Total (as N) 6-Month Median	01/09/2023 07:00:00 01/19/2023	- 2 -	= 34000 ug/L	250 - 400	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Ammonia, Total (as N) 6-Month Median	01/09/2023 07:00:00 01/19/2023	- 1 -	= 34000 ug/L	250 - 400	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Ammonia, Total (as N) 6-Month Median	01/09/2023 07:00:00 01/19/2023	- 1 -	= 7.38 lb/day	54 - 86	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Anthracene 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.0067 - .0673	No -		CDF_Analytical_Calculated_07212023.zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Calculation Type	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-004	- -	- water	Anthracene 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.03 - .3	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Antimony, Total Recoverable 30-Day Average	01/31/2023 07:00:00 02/13/2023	- 1 -	ND ug/L	6 - 13	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Antimony, Total Recoverable 30-Day Average	01/31/2023 07:00:00 02/13/2023	- 1 -	ND lb/day	1.4992 - 3.2483	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Arsenic, Total Recoverable 6-Month Median	01/31/2023 07:00:00 02/13/2023	- 2 -	ND lb/day	.9994656 - 1.9989312	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Arsenic, Total Recoverable 6-Month Median	01/31/2023 07:00:00 02/13/2023	- 1 -	ND lb/day	.9994656 - 1.9989312	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Arsenic, Total Recoverable 6-Month Median	01/31/2023 07:00:00 02/13/2023	- 1 -	ND ug/L	4 - 8	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Arsenic, Total Recoverable 6-Month Median	01/31/2023 07:00:00 02/13/2023	- 2 -	ND ug/L	4 - 8	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Benzene 30-Day Average	02/13/2023 09:30:00 02/16/2023	- 1 -	ND ug/L	.18 - .5	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Benzene 30-Day Average	02/13/2023 09:30:00 02/16/2023	- 1 -	ND lb/day	.0398 - .1107	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Benzidine 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	4 - 5	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Benzidine 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.2018 - .2242	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Benzo(a)anthracene 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.05 - .3	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Benzo(a)anthracene 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.0112 - .0673	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Benzo(a)pyrene 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.04 - .3	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Benzo(a)pyrene 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.009 - .0673	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Benzo(b)fluoranthene 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.0112 - .0673	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Benzo(b)fluoranthene 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.05 - .3	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Benzo(ghi)perylene 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.05 - .1	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Benzo(ghi)perylene 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.0112 - .0224	No -		CDF_Analytical_Calculated_07212023.zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Calculation Type	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-004	- -	- water	Benzo(k)fluoranthene 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.0045 - .0673	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Benzo(k)fluoranthene 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.02 - .3	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Beryllium, Total Recoverable 30-Day Average	01/31/2023 07:00:00 02/06/2023	- 1 -	ND lb/day	.055 - .1249	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Beryllium, Total Recoverable 30-Day Average	01/31/2023 07:00:00 02/06/2023	- 1 -	ND ug/L	.22 - .5	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	BHC, Sum 6-Month Median	02/02/2023 09:00:00 02/09/2023	- 1 -	ND lb/day	.0029 - .0067	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	BHC, Sum 6-Month Median	02/02/2023 09:00:00 02/09/2023	- 1 -	ND ug/L	.013 - .03	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Bis (2-Chloroethoxy) Methane 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.1121 - 1.1209	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Bis (2-Chloroethoxy) Methane 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.5 - 5	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Bis (2-Chloroethyl) Ether 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.2018 - .2242	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Bis (2-Chloroethyl) Ether 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.9 - 1	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Bis (2-Chloroisopropyl) Ether 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.2018 - .4484	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Bis (2-Chloroisopropyl) Ether 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.9 - 2	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Bis (2-Ethylhexyl) Phthalate 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.5 - 1	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Bis (2-Ethylhexyl) Phthalate 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.1121 - .2242	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Bromoform 30-Day Average	02/13/2023 09:30:00 02/16/2023	- 1 -	ND lb/day	.0332 - .1107	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Bromoform 30-Day Average	02/13/2023 09:30:00 02/16/2023	- 1 -	ND ug/L	.15 - .5	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Bromomethane 30-Day Average	02/13/2023 09:30:00 02/16/2023	- 1 -	ND lb/day	.0288 - .1107	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Bromomethane 30-Day Average	02/13/2023 09:30:00 02/16/2023	- 1 -	ND ug/L	.13 - .5	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Cadmium, Total Recoverable 6-Month Median	01/31/2023 07:00:00 02/13/2023	- 2 -	ND ug/L	4 - 9	No -		CDF_Analytical_Calculated_07212023.zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Calculation Type	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-004	- -	- water	Cadmium, Total Recoverable 6-Month Median	01/31/2023 07:00:00 02/13/2023	- 1 -	ND ug/L	4 - 9	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Cadmium, Total Recoverable 6-Month Median	01/31/2023 07:00:00 02/13/2023	- 2 -	ND lb/day	.9994656 - 2.2487976	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Cadmium, Total Recoverable 6-Month Median	01/31/2023 07:00:00 02/13/2023	- 1 -	ND lb/day	.9994656 - 2.2487976	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Carbon Tetrachloride 30-Day Average	02/13/2023 09:30:00 02/16/2023	- 1 -	ND lb/day	.0354 - .1107	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Carbon Tetrachloride 30-Day Average	02/13/2023 09:30:00 02/16/2023	- 1 -	ND ug/L	.16 - .5	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Chlordane 30-Day Average	02/02/2023 09:00:00 02/09/2023	- 1 -	ND lb/day	.0007 - .0022	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Chlordane 30-Day Average	02/02/2023 09:00:00 02/09/2023	- 1 -	ND ug/L	.003 - .01	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Chlorobenzene 30-Day Average	02/13/2023 09:30:00 02/16/2023	- 1 -	ND lb/day	.0398 - .1107	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Chlorobenzene 30-Day Average	02/13/2023 09:30:00 02/16/2023	- 1 -	ND ug/L	.18 - .5	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Chloroform 30-Day Average	02/13/2023 09:30:00 02/16/2023	- 1 -	= 1.8 ug/L	.17 - .5	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Chloroform 30-Day Average	02/13/2023 09:30:00 02/16/2023	- 1 -	= 0.398 lb/day	.0376 - .1107	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Chloromethane 30-Day Average	02/13/2023 09:30:00 02/16/2023	- 1 -	ND ug/L	.13 - .5	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Chloromethane 30-Day Average	02/13/2023 09:30:00 02/16/2023	- 1 -	ND lb/day	.0288 - .1107	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Chromium, Total Recoverable 6-Month Median	01/31/2023 07:00:00 02/13/2023	- 2 -	ND lb/day	.9994656 - 2.2487976	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Chromium, Total Recoverable 6-Month Median	01/31/2023 07:00:00 02/13/2023	- 2 -	ND ug/L	4 - 9	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Chromium, Total Recoverable 6-Month Median	01/31/2023 07:00:00 02/13/2023	- 1 -	ND lb/day	.9994656 - 2.2487976	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Chromium, Total Recoverable 6-Month Median	01/31/2023 07:00:00 02/13/2023	- 1 -	ND ug/L	4 - 9	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Chrysene 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.0112 - .0673	No -		CDF_Analytical_Calculated_07212023.zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Calculation Type	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-004	- -	- water	Chrysene 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.05 - .3	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	cis-1,3-Dichloropropene 30-Day Average	02/13/2023 09:30:00 02/16/2023	- 1 -	ND ug/L	.09 - .5	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	cis-1,3-Dichloropropene 30-Day Average	02/13/2023 09:30:00 02/16/2023	- 1 -	ND lb/day	.0199 - .1107	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Copper, Total Recoverable 6-Month Median	06/07/2023 07:00:00 06/27/2023	- 1 -	= 0.6 lb/day	.0399 - .0869	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Copper, Total Recoverable 6-Month Median	06/07/2023 07:00:00 06/27/2023	- 2 -	= 0.6 lb/day	.0399 - .0869	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Copper, Total Recoverable 6-Month Median	06/07/2023 07:00:00 06/27/2023	- 1 -	= 3.6 ug/L	.23 - .5	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Copper, Total Recoverable 6-Month Median	06/07/2023 07:00:00 06/27/2023	- 2 -	= 3.6 ug/L	.23 - .5	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Cyanide, Total (as CN) 6-Month Median	01/31/2023 07:00:00 02/07/2023	- 2 -	ND ug/L	2.5 - 5	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Cyanide, Total (as CN) 6-Month Median	01/31/2023 07:00:00 02/07/2023	- 2 -	ND lb/day	.6246 - 1.2493	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Cyanide, Total (as CN) 6-Month Median	01/31/2023 07:00:00 02/07/2023	- 1 -	ND ug/L	2.5 - 5	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Cyanide, Total (as CN) 6-Month Median	01/31/2023 07:00:00 02/07/2023	- 1 -	ND lb/day	.6246 - 1.2493	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	DDT/DDD/DDE, Sum of P,P & O,P Isomers 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.013 - .045	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	DDT/DDD/DDE, Sum of P,P & O,P Isomers 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.0029 - .0101	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Di-n-butyl Phthalate 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.0897 - 1.1209	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Di-n-butyl Phthalate 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.4 - 5	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Dibenzo(a,h)anthracene 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.0112 - .0224	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Dibenzo(a,h)anthracene 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.05 - .1	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Dibromochloromethane 30-Day Average	02/13/2023 09:30:00 02/16/2023	- 1 -	ND ug/L	.17 - .25	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Dibromochloromethane 30-Day Average	02/13/2023 09:30:00 02/16/2023	- 1 -	ND lb/day	.0376 - .0553	No -		CDF_Analytical_Calculated_07212023.zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Calculation Type	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-004	- -	- water	Dichlorobenzenes, Sum 30-Day Average	02/13/2023 09:30:00 02/16/2023	- 1 -	ND ug/L	.45 - 1	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Dichlorobenzenes, Sum 30-Day Average	02/13/2023 09:30:00 02/16/2023	- 1 -	ND lb/day	.0996 - .2213	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Dichlorobromomethane 30-Day Average	02/13/2023 09:30:00 02/16/2023	- 1 -	DNQ 0.29 ug/L	.08 - .5	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Dichlorobromomethane 30-Day Average	02/13/2023 09:30:00 02/16/2023	- 1 -	DNQ 0.0641 lb/day	.0177 - .1107	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Dieldrin 30-Day Average	02/02/2023 09:00:00 02/09/2023	- 1 -	ND ug/L	.002 - .01	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Dieldrin 30-Day Average	02/02/2023 09:00:00 02/09/2023	- 1 -	ND lb/day	.0004 - .0022	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Diethyl Phthalate 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.1121 - .4484	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Diethyl Phthalate 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.5 - 2	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Dimethyl Phthalate 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.1121 - .4484	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Dimethyl Phthalate 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.5 - 2	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Endosulfans, Sum 6-Month Median	02/02/2023 09:00:00 02/09/2023	- 1 -	ND lb/day	.02465 - .0067	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Endosulfans, Sum 6-Month Median	02/02/2023 09:00:00 02/09/2023	- 1 -	ND ug/L	.011 - .03	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Endrin 6-Month Median	02/02/2023 09:00:00 02/09/2023	- 1 -	ND ug/L	.003 - .01	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Endrin 6-Month Median	02/02/2023 09:00:00 02/09/2023	- 1 -	ND lb/day	.00067 - .0022	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Ethylbenzene 30-Day Average	02/13/2023 09:30:00 02/16/2023	- 1 -	ND lb/day	.0221 - .1107	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Ethylbenzene 30-Day Average	02/13/2023 09:30:00 02/16/2023	- 1 -	ND ug/L	.1 - .5	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Fluoranthene 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.02 - .05	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Fluoranthene 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.0045 - .0112	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Fluorene 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.0045 - .0224	No -		CDF_Analytical_Calculated_07212023.zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Calculation Type	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-004	- -	- water	Fluorene 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.02 - .1	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Halomethanes, Sum 30-Day Average	02/13/2023 09:30:00 02/16/2023	- 1 -	ND lb/day	.0908 - .332	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Halomethanes, Sum 30-Day Average	02/13/2023 09:30:00 02/16/2023	- 1 -	ND ug/L	.41 - 1.5	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Heptachlor 30-Day Average	02/02/2023 09:00:00 02/09/2023	- 1 -	ND lb/day	.0009 - .0022	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Heptachlor 30-Day Average	02/02/2023 09:00:00 02/09/2023	- 1 -	ND ug/L	.004 - .01	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Heptachlor Epoxide 30-Day Average	02/02/2023 09:00:00 02/09/2023	- 1 -	ND ug/L	.001 - .01	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Heptachlor Epoxide 30-Day Average	02/02/2023 09:00:00 02/09/2023	- 1 -	ND lb/day	.0002 - .0022	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Hexachlorobenzene 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.2242 - .2242	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Hexachlorobenzene 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	1 - 1	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Hexachlorobutadiene 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.0897 - .2242	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Hexachlorobutadiene 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.4 - 1	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Hexachlorocyclopentadiene 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.9 - 1	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Hexachlorocyclopentadiene 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.2018 - .2242	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Hexachloroethane 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.0897 - .2242	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Hexachloroethane 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.4 - 1	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Indeno (1,2,3-cd) Pyrene 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.05 - .05	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Indeno (1,2,3-cd) Pyrene 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.0112 - .0112	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Isophorone 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.5 - 1	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Isophorone 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.1121 - .2242	No -		CDF_Analytical_Calculated_07212023.zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Calculation Type	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-004	- -	- water	Lead, Total Recoverable 6-Month Median	01/31/2023 07:00:00 02/06/2023	- 2 -	ND ug/L	.12 - .2	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Lead, Total Recoverable 6-Month Median	01/31/2023 07:00:00 02/06/2023	- 1 -	ND ug/L	.12 - .2	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Lead, Total Recoverable 6-Month Median	01/31/2023 07:00:00 02/06/2023	- 2 -	ND lb/day	.0299 - .0499	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Lead, Total Recoverable 6-Month Median	01/31/2023 07:00:00 02/06/2023	- 1 -	ND lb/day	.0299 - .0499	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Mercury, Total Recoverable 6-Month Median	01/31/2023 07:00:00 02/08/2023	- 2 -	ND ug/L	.12 - .2	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Mercury, Total Recoverable 6-Month Median	01/31/2023 07:00:00 02/08/2023	- 1 -	ND ug/L	.12 - .2	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Mercury, Total Recoverable 6-Month Median	01/31/2023 07:00:00 02/08/2023	- 1 -	ND lb/day	.0299 - .04997	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Mercury, Total Recoverable 6-Month Median	01/31/2023 07:00:00 02/08/2023	- 2 -	ND lb/day	.0299 - .04997	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Methylene Chloride 30-Day Average	02/13/2023 09:30:00 02/16/2023	- 1 -	ND lb/day	.0266 - .1107	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Methylene Chloride 30-Day Average	02/13/2023 09:30:00 02/16/2023	- 1 -	ND ug/L	.12 - .5	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	N-Nitrosodi-n-Propylamine 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.1121 - 1.1209	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	N-Nitrosodi-n-Propylamine 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.5 - 5	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	N-Nitrosodimethylamine 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.7 - 5	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	N-Nitrosodimethylamine 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.1569 - 1.1209	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	N-Nitrosodiphenylamine 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.7 - 1	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	N-Nitrosodiphenylamine 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.1569 - .2242	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Nickel, Total Recoverable 6-Month Median	01/31/2023 07:00:00 02/13/2023	- 1 -	ND ug/L	5 - 9	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Nickel, Total Recoverable 6-Month Median	01/31/2023 07:00:00 02/13/2023	- 2 -	ND ug/L	5 - 9	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Nickel, Total Recoverable 6-Month Median	01/31/2023 07:00:00 02/13/2023	- 2 -	ND lb/day	1.2493 - 2.2487	No -		CDF_Analytical_Calculated_07212023.zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Calculation Type	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-004	- -	- water	Nickel, Total Recoverable 6-Month Median	01/31/2023 07:00:00 02/13/2023	- 1 -	ND lb/day	1.2493 - 2.2487	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Nitrobenzene 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.5 - 1	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Nitrobenzene 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.1121 - .2242	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	PCB-1016 30-Day Average	02/02/2023 09:00:00 02/09/2023	- 1 -	ND ug/L	.03 - .1	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	PCB-1016 30-Day Average	02/02/2023 09:00:00 02/09/2023	- 1 -	ND lb/day	.0067 - .0224	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	PCB-1221 30-Day Average	02/02/2023 09:00:00 02/09/2023	- 1 -	ND lb/day	.0067 - .0224	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	PCB-1221 30-Day Average	02/02/2023 09:00:00 02/09/2023	- 1 -	ND ug/L	.03 - .1	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	PCB-1232 30-Day Average	02/02/2023 09:00:00 02/09/2023	- 1 -	ND lb/day	.0067 - .0224	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	PCB-1232 30-Day Average	02/02/2023 09:00:00 02/09/2023	- 1 -	ND ug/L	.03 - .1	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	PCB-1242 30-Day Average	02/02/2023 09:00:00 02/09/2023	- 1 -	ND ug/L	.03 - .1	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	PCB-1242 30-Day Average	02/02/2023 09:00:00 02/09/2023	- 1 -	ND lb/day	.0067 - .0224	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	PCB-1248 30-Day Average	02/02/2023 09:00:00 02/09/2023	- 1 -	ND lb/day	.0067 - .0224	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	PCB-1248 30-Day Average	02/02/2023 09:00:00 02/09/2023	- 1 -	ND ug/L	.03 - .1	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	PCB-1254 30-Day Average	02/02/2023 09:00:00 02/09/2023	- 1 -	ND ug/L	.03 - .1	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	PCB-1254 30-Day Average	02/02/2023 09:00:00 02/09/2023	- 1 -	ND lb/day	.0067 - .0224	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	PCB-1260 30-Day Average	02/02/2023 09:00:00 02/09/2023	- 1 -	ND ug/L	.03 - .1	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	PCB-1260 30-Day Average	02/02/2023 09:00:00 02/09/2023	- 1 -	ND lb/day	.0067 - .0224	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Phenanthrene 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.02 - .05	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Phenanthrene 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.0045 - .0112	No -		CDF_Analytical_Calculated_07212023.zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Calculation Type	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-004	- -	- water	Phenols, Chlorinated 6-Month Median	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	2.7 - 11	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Phenols, Chlorinated 6-Month Median	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.6052 - 2.4659	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Phenols, Non-chlorinated 6-Month Median	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	7.4 - 33	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Phenols, Non-chlorinated 6-Month Median	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	1.6589 - 7.3979	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Polychlorinated Biphenyls (PCBs), Sum 30-Day Average	02/02/2023 09:00:00 02/09/2023	- 1 -	ND lb/day	.0471 - .1569	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Polychlorinated Biphenyls (PCBs), Sum 30-Day Average	02/02/2023 09:00:00 02/09/2023	- 1 -	ND ug/L	.21 - .7	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Polynuclear Aromatic Hydrocarbons (PAHs) 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.47 - 2.45	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Polynuclear Aromatic Hydrocarbons (PAHs) 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.1054 - .5492	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Pyrene 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND lb/day	.0045 - .0112	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Pyrene 30-Day Average	02/02/2023 09:00:00 02/13/2023	- 1 -	ND ug/L	.02 - .05	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Selenium, Total Recoverable 6-Month Median	01/31/2023 07:00:00 02/06/2023	- 2 -	DNQ 1.8 ug/L	.52 - 2	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Selenium, Total Recoverable 6-Month Median	01/31/2023 07:00:00 02/06/2023	- 2 -	DNQ 0.45 lb/day	.1299 - .4997	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Selenium, Total Recoverable 6-Month Median	01/31/2023 07:00:00 02/06/2023	- 1 -	DNQ 0.45 lb/day	.12993 - .4997	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Selenium, Total Recoverable 6-Month Median	01/31/2023 07:00:00 02/06/2023	- 1 -	DNQ 1.8 ug/L	.52 - 2	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Silver, Total Recoverable 6-Month Median	01/31/2023 07:00:00 02/06/2023	- 2 -	ND ug/L	3.4 - 10	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Silver, Total Recoverable 6-Month Median	01/31/2023 07:00:00 02/06/2023	- 1 -	ND ug/L	3.4 - 10	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Silver, Total Recoverable 6-Month Median	01/31/2023 07:00:00 02/06/2023	- 1 -	ND lb/day	.8495 - 2.4986	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Silver, Total Recoverable 6-Month Median	01/31/2023 07:00:00 02/06/2023	- 2 -	ND lb/day	.8495 - 2.4986	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	TCDD Equivalents 30-Day Average	01/31/2023 07:00:00 03/05/2023	- 1 -	ND ug/L	.00005 - .00058	No -		CDF_Analytical_Calculated_07212023.zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Calculation Type	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-004	- -	- water	TCDD Equivalents 30-Day Average	01/31/2023 07:00:00 03/05/2023	- 1 -	ND lb/day	.00001 - .00012	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Tetrachloroethene 30-Day Average	02/13/2023 09:30:00 02/16/2023	- 1 -	ND ug/L	.19 - .5	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Tetrachloroethene 30-Day Average	02/13/2023 09:30:00 02/16/2023	- 1 -	ND lb/day	.0421 - .1107	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Thallium, Total Recoverable 30-Day Average	01/31/2023 07:00:00 02/06/2023	- 1 -	ND lb/day	.0275 - .2499	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Thallium, Total Recoverable 30-Day Average	01/31/2023 07:00:00 02/06/2023	- 1 -	ND ug/L	.11 - 1	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Toluene 30-Day Average	02/13/2023 09:30:00 02/16/2023	- 1 -	ND lb/day	.0421 - .1107	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Toluene 30-Day Average	02/13/2023 09:30:00 02/16/2023	- 1 -	ND ug/L	.19 - .5	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Toxaphene 30-Day Average	02/02/2023 09:00:00 02/09/2023	- 1 -	ND lb/day	.0897 - .1121	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Toxaphene 30-Day Average	02/02/2023 09:00:00 02/09/2023	- 1 -	ND ug/L	.4 - .5	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Tributyltin (TBT) 30-Day Average	01/31/2023 07:00:00 02/24/2023	- 1 -	ND lb/day	.0006 - .0012	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Tributyltin (TBT) 30-Day Average	01/31/2023 07:00:00 02/24/2023	- 1 -	ND ug/L	.002 - .005	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Trichloroethene 30-Day Average	02/13/2023 09:30:00 02/16/2023	- 1 -	ND ug/L	.2 - .5	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Trichloroethene 30-Day Average	02/13/2023 09:30:00 02/16/2023	- 1 -	ND lb/day	.0443 - .1107	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Vinyl Chloride 30-Day Average	02/13/2023 09:30:00 02/16/2023	- 1 -	ND ug/L	.25 - .5	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Vinyl Chloride 30-Day Average	02/13/2023 09:30:00 02/16/2023	- 1 -	ND lb/day	.0553 - .1107	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Zinc, Total Recoverable 6-Month Median	01/31/2023 07:00:00 02/13/2023	- 2 -	= 4 lb/day	1.2493 - 2.4986	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Zinc, Total Recoverable 6-Month Median	01/31/2023 07:00:00 02/13/2023	- 2 -	= 16 ug/L	5 - 10	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Zinc, Total Recoverable 6-Month Median	01/31/2023 07:00:00 02/13/2023	- 1 -	= 4 lb/day	1.2493 - 2.4986	No -		CDF_Analytical_Calculated_07212023.zip
M-004	- -	- water	Zinc, Total Recoverable 6-Month Median	01/31/2023 07:00:00 02/13/2023	- 1 -	= 16 ug/L	5 - 10	No -		CDF_Analytical_Calculated_07212023.zip

Lab Batches

No Lab Batch Data Available / Reported

Questionnaire

No Questionnaire Available

Certificate

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

I certify that I am Octavio Navarrete and am authorized to submit this report on behalf of Carlsbad WRF / Encina Ocean Outfall / Encina Water Pollution Control Facility / Vallecitos WD Meadowlark WRP. I understand that I am submitting the following report(s):

- Semi-Annual SMR (MONNPDES) report for H1 2023 (due 08/01/2023)

I understand that data submitted in this report(s) can be used by authorized agencies for water quality management related analyses and enforcement actions, if required.

I am also aware that my user ID, password, and answer to a challenge question constitute my electronic signature and any information I indicate I am electronically certifying contains my signature. I understand that my electronic signature is the legal equivalent of my handwritten signature. I certify that I have not violated any term in my Electronic Signature Agreement and that I am otherwise without any reason to believe that the confidentiality of my password and challenge question answers have been compromised now or at any time prior to this submission. I understand that this attestation of fact pertains to the implementation, oversight, and enforcement of a federal environmental program and must be true to the best of my knowledge.

Name: Octavio Navarrete

Title: Chief Plant Operator

eSMR PDF Report

Summary: Semi-Annual SMR (MONNPDES) report for H2 2023

Summary: Semi-Annual SMR (MONNPDES) report for H2 2023 submitted by Octavio Navarrete (Chief Plant Operator) on 01/30/2024.

Facility Name: Carlsbad WRF **/** Encina Ocean Outfall **/** Encina Water Pollution Control Facility **/** Vallecitos WD Meadowlark WRP

Waterboard Office: Region 9 - San Diego **/** Region 9 - San Diego **/** Region 9 - San Diego **/** Region 9 - San Diego

Report Effective Dates: 07/01/2023 - 12/31/2023

Order Number: R9-2018-0059

Case Worker: Joann L Lim

No Discharge Periods

Name	Description	Dates	Comments
Encina Ocean Outfall 001	POTW Effluent and waste brine		No Discharge Flows from M-005.

Self-Determined Violations

No Violations Entered

Attachments

No Attachments Available

Cover Letter

Title
SDRWQCB, Attached is the July-December 2023 Semi Annual NPDES Monitoring Report. Sincerely, EWA Staff

Data Summary

Analytical Results

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Analytical Method	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-004	- -	- water	1,1,1-Trichloroethane E624	07/27/2023 07:30:00 07/28/2023	- 1 -	ND ug/L	.19 - .5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	1,1,1-Trichloroethane E624	07/27/2023 07:30:00 07/28/2023	- 1 -	ND lb/day	.0341 - .0898	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	1,1,2,2-Tetrachloroethane E624	07/27/2023 07:30:00 07/28/2023	- 1 -	ND ug/L	.15 - .5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	1,1,2,2-Tetrachloroethane E624	07/27/2023 07:30:00 07/28/2023	- 1 -	ND lb/day	.0269 - .0898	No -		CDF_Analytical_Calculated_01302024.zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Analytical Method	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-004	- -	- water	1,1,2-Trichloroethane E624	07/27/2023 07:30:00 07/28/2023	- 1 -	ND lb/day	.0287 - .0898	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	1,1,2-Trichloroethane E624	07/27/2023 07:30:00 07/28/2023	- 1 -	ND ug/L	.16 - .5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	1,1-Dichloroethylene E624	07/27/2023 07:30:00 07/28/2023	- 1 -	ND ug/L	.21 - .5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	1,1-Dichloroethylene E624	07/27/2023 07:30:00 07/28/2023	- 1 -	ND lb/day	.0377 - .0898	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	1,2-Dichlorobenzene E624	07/27/2023 07:30:00 07/28/2023	- 1 -	ND ug/L	.27 - .5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	1,2-Dichlorobenzene E624	07/27/2023 07:30:00 07/28/2023	- 1 -	ND lb/day	.0485 - .0898	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	1,2-Dichloroethane E624	07/27/2023 07:30:00 07/28/2023	- 1 -	ND ug/L	.17 - .5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	1,2-Dichloroethane E624	07/27/2023 07:30:00 07/28/2023	- 1 -	ND lb/day	.0305 - .0898	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	1,2-Diphenylhydrazine E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	.5 - 1	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	1,2-Diphenylhydrazine E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.0898 - .1796	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	1,3-Dichlorobenzene E624	07/27/2023 07:30:00 07/28/2023	- 1 -	ND lb/day	.0323 - .0898	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	1,3-Dichlorobenzene E624	07/27/2023 07:30:00 07/28/2023	- 1 -	ND ug/L	.18 - .5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	1,4-Dichlorobenzene E624	07/27/2023 07:30:00 07/28/2023	- 1 -	ND lb/day	.0323 - .0898	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	1,4-Dichlorobenzene E624	07/27/2023 07:30:00 07/28/2023	- 1 -	ND ug/L	.18 - .5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	2,4,6-Trichlorophenol E625	07/27/2023 07:30:00 07/28/2023	- 1 -	ND lb/day	.0719 - .3593	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	2,4,6-Trichlorophenol E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	.4 - 2	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	2,4-DDD E625	07/27/2023 07:30:00 08/09/2023	- 1 -	ND ug/L	.003 - .005	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	2,4-DDD E625	07/27/2023 07:30:00 08/09/2023	- 1 -	ND lb/day	.0005 - .0009	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	2,4-DDE E625	07/27/2023 07:30:00 08/09/2023	- 1 -	ND lb/day	.0004 - .0009	No -		CDF_Analytical_Calculated_01302024.zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Analytical Method	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-004	- -	- water	2,4-DDE E625	07/27/2023 07:30:00 08/09/2023	- 1 -	ND ug/L	.002 - .005	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	2,4-DDT E625	07/27/2023 07:30:00 08/09/2023	- 1 -	ND lb/day	.0004 - .0009	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	2,4-DDT E625	07/27/2023 07:30:00 08/09/2023	- 1 -	ND ug/L	.002 - .005	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	2,4-Dinitrophenol E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.3593 - .8982	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	2,4-Dinitrophenol E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	2 - 5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	2,4-Dinitrotoluene E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	.9 - 5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	2,4-Dinitrotoluene E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.1617 - .8982	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	3,3-Dichlorobenzidine E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	5 - 5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	3,3-Dichlorobenzidine E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.8982 - .8982	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	4,4-DDD E625	07/27/2023 07:30:00 08/08/2023	- 1 -	ND lb/day	.0004 - .0018	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	4,4-DDD E625	07/27/2023 07:30:00 08/08/2023	- 1 -	ND ug/L	.0021 - .01	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	4,4-DDE E625	07/27/2023 07:30:00 08/08/2023	- 1 -	ND lb/day	.0002 - .0018	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	4,4-DDE E625	07/27/2023 07:30:00 08/08/2023	- 1 -	ND ug/L	.0009 - .01	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	4,4-DDT E625	07/27/2023 07:30:00 08/08/2023	- 1 -	ND lb/day	.0007 - .0018	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	4,4-DDT E625	07/27/2023 07:30:00 08/08/2023	- 1 -	ND ug/L	.0038 - .01	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	4,6-Dinitro-2-methylphenol E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.3593 - .8982	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	4,6-Dinitro-2-methylphenol E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	2 - 5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Acenaphthylene E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.0036 - .0359	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Acenaphthylene E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	.02 - .2	No -		CDF_Analytical_Calculated_01302024.zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Analytical Method	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-004	- -	- water	Acrolein E624	07/27/2023 07:30:00 07/28/2023	- 1 -	ND ug/L	.81 - 2	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Acrolein E624	07/27/2023 07:30:00 07/28/2023	- 1 -	ND lb/day	.1455 - .3593	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Acrylonitrile E624	07/27/2023 07:30:00 07/28/2023	- 1 -	ND lb/day	.1347 - .3593	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Acrylonitrile E624	07/27/2023 07:30:00 07/28/2023	- 1 -	ND ug/L	.75 - 2	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Aldrin E625	07/27/2023 07:30:00 08/08/2023	- 1 -	ND ug/L	.0014 - .005	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Aldrin E625	07/27/2023 07:30:00 08/08/2023	- 1 -	ND lb/day	.0003 - .0009	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Anthracene E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	.03 - .3	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Anthracene E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.0054 - .0539	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Antimony, Total Recoverable E200.7	07/27/2023 07:30:00 08/14/2023	- 1 -	ND ug/L	6 - 13	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Antimony, Total Recoverable E200.7	07/27/2023 07:30:00 08/14/2023	- 1 -	ND lb/day	1.0779 - 2.3354	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Arsenic, Total Recoverable E200.7	07/27/2023 07:30:00 08/14/2023	- 1 -	ND lb/day	.7186 - 1.4371	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Arsenic, Total Recoverable E200.7	07/27/2023 07:30:00 08/14/2023	- 1 -	ND ug/L	4 - 8	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Benzene E624	07/27/2023 07:30:00 07/28/2023	- 1 -	ND lb/day	.0323 - .0898	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Benzene E624	07/27/2023 07:30:00 07/28/2023	- 1 -	ND ug/L	.18 - .5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Benzidine E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.7186 - .8982	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Benzidine E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	4 - 5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Benzo(a)anthracene E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.009 - .0539	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Benzo(a)anthracene E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	.05 - .3	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Benzo(a)pyrene E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.0072 - .0539	No -		CDF_Analytical_Calculated_01302024.zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Analytical Method	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-004	- -	- water	Benzo(a)pyrene E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	.04 - .3	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Benzo(b)fluoranthene E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.009 - .0539	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Benzo(b)fluoranthene E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	.05 - .3	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Benzo(ghi)perylene E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.009 - .018	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Benzo(ghi)perylene E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	.05 - .1	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Benzo(k)fluoranthene E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	.02 - .3	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Benzo(k)fluoranthene E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.0036 - .0539	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Beryllium, Total Recoverable E200.8	07/27/2023 07:30:00 07/31/2023	- 1 -	ND ug/L	.22 - .5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Beryllium, Total Recoverable E200.8	07/27/2023 07:30:00 07/31/2023	- 1 -	ND lb/day	.0395 - .0898	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	BHC, Sum E625	07/27/2023 07:30:00 08/08/2023	- 1 -	ND lb/day	.002 - .0054	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	BHC, Sum E625	07/27/2023 07:30:00 08/08/2023	- 1 -	ND ug/L	.0112 - .03	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Bis (2-Chloroethoxy) Methane E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	.5 - 5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Bis (2-Chloroethoxy) Methane E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.0898 - .8982	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Bis (2-Chloroethyl) Ether E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.1617 - .1796	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Bis (2-Chloroethyl) Ether E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	.9 - 1	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Bis (2-Chloroisopropyl) Ether E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.1617 - .3593	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Bis (2-Chloroisopropyl) Ether E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	.9 - 2	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Bis (2-Ethylhexyl) Phthalate E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	.5 - 1	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Bis (2-Ethylhexyl) Phthalate E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.0898 - .1796	No -		CDF_Analytical_Calculated_01302024.zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Analytical Method	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-004	- -	- water	Bromoform E624	07/27/2023 07:30:00 07/28/2023	- 1 -	ND ug/L	.15 - .5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Bromoform E624	07/27/2023 07:30:00 07/28/2023	- 1 -	ND lb/day	.0269 - .0898	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Bromomethane E624	07/27/2023 07:30:00 07/28/2023	- 1 -	ND lb/day	.0234 - .0898	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Bromomethane E624	07/27/2023 07:30:00 07/28/2023	- 1 -	ND ug/L	.13 - .5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Cadmium, Total Recoverable E200.7	07/27/2023 07:30:00 08/14/2023	- 1 -	ND lb/day	.7186 - 1.6168	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Cadmium, Total Recoverable E200.7	07/27/2023 07:30:00 08/14/2023	- 1 -	ND ug/L	4 - 9	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Carbon Tetrachloride E624	07/27/2023 07:30:00 07/28/2023	- 1 -	ND ug/L	.16 - .5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Carbon Tetrachloride E624	07/27/2023 07:30:00 07/28/2023	- 1 -	ND lb/day	.0287 - .0898	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Chlordane E625	07/27/2023 07:30:00 08/08/2023	- 1 -	ND ug/L	.0034 - .01	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Chlordane E625	07/27/2023 07:30:00 08/08/2023	- 1 -	ND lb/day	.0006 - .0018	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Chlorobenzene E624	07/27/2023 07:30:00 07/28/2023	- 1 -	ND lb/day	.0323 - .0898	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Chlorobenzene E624	07/27/2023 07:30:00 07/28/2023	- 1 -	ND ug/L	.18 - .5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Chloroform E624	07/27/2023 07:30:00 07/28/2023	- 1 -	DNQ 0.0539 lb/day	.0305 - .0898	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Chloroform E624	07/27/2023 07:30:00 07/28/2023	- 1 -	DNQ 0.3 ug/L	.17 - .5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Chloromethane E624	07/27/2023 07:30:00 07/28/2023	- 1 -	ND lb/day	.0234 - .0898	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Chloromethane E624	07/27/2023 07:30:00 07/28/2023	- 1 -	ND ug/L	.13 - .5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Chromium, Total Recoverable E200.7	07/27/2023 07:30:00 08/14/2023	- 1 -	ND lb/day	.7186 - 1.6168	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Chromium, Total Recoverable E200.7	07/27/2023 07:30:00 08/14/2023	- 1 -	ND ug/L	4 - 9	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Chrysene E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	.05 - .3	No -		CDF_Analytical_Calculated_01302024.zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Analytical Method	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-004	- -	- water	Chrysene E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.009 - .0539	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	cis-1,3-Dichloropropene E624	07/27/2023 07:30:00 07/28/2023	- 1 -	ND ug/L	.09 - .5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	cis-1,3-Dichloropropene E624	07/27/2023 07:30:00 07/28/2023	- 1 -	ND lb/day	.0162 - .0898	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Copper, Total Recoverable E200.8	07/27/2023 07:30:00 08/07/2023	- 1 -	= 4.2 ug/L	.23 - .5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Copper, Total Recoverable E200.8	07/27/2023 07:30:00 08/07/2023	- 1 -	= 0.754 lb/day	.0413 - .0898	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Cyanide, Total (as CN) DU	07/27/2023 07:30:00 08/04/2023	- 1 -	DNQ 4.8 ug/L	2.5 - 5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Cyanide, Total (as CN) DU	07/27/2023 07:30:00 08/04/2023	- 1 -	DNQ 0.862 lb/day	.4491 - .8982	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	DDT/DDD/DDE, Sum of P,P & O,P Isomers E625	07/27/2023 07:30:00 08/09/2023	- 1 -	ND lb/day	.0025 - .0081	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	DDT/DDD/DDE, Sum of P,P & O,P Isomers E625	07/27/2023 07:30:00 08/09/2023	- 1 -	ND ug/L	.0138 - .045	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Di-n-butyl Phthalate E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.0719 - .8982	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Di-n-butyl Phthalate E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	.4 - 5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Dibenzo(a,h)anthracene E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.009 - .018	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Dibenzo(a,h)anthracene E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	.05 - .1	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Dibromochloromethane E624	07/27/2023 07:30:00 07/28/2023	- 1 -	ND ug/L	.17 - .25	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Dibromochloromethane E624	07/27/2023 07:30:00 07/28/2023	- 1 -	ND lb/day	.0305 - .0449	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Dichlorobenzenes, Sum E624	07/27/2023 07:30:00 07/28/2023	- 1 -	ND ug/L	.45 - 1	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Dichlorobenzenes, Sum E624	07/27/2023 07:30:00 07/28/2023	- 1 -	ND lb/day	.0808 - .1796	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Dichlorobromomethane E624	07/27/2023 07:30:00 07/28/2023	- 1 -	ND ug/L	.08 - .5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Dichlorobromomethane E624	07/27/2023 07:30:00 07/28/2023	- 1 -	ND lb/day	.0144 - .0898	No -		CDF_Analytical_Calculated_01302024.zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Analytical Method	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-004	- -	- water	Dieldrin E625	07/27/2023 07:30:00 08/08/2023	- 1 -	ND lb/day	.0003 - .0018	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Dieldrin E625	07/27/2023 07:30:00 08/08/2023	- 1 -	ND ug/L	.0017 - .01	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Diethyl Phthalate E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	.5 - 2	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Diethyl Phthalate E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.0898 - .3593	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Dimethyl Phthalate E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.0898 - .3593	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Dimethyl Phthalate E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	.5 - 2	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Endosulfans, Sum E625	07/27/2023 07:30:00 08/08/2023	- 1 -	ND ug/L	.0076 - .003	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Endosulfans, Sum E625	07/27/2023 07:30:00 08/08/2023	- 1 -	ND lb/day	.0014 - .0005	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Endrin E625	07/27/2023 07:30:00 08/08/2023	- 1 -	ND lb/day	.0005 - .0018	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Endrin E625	07/27/2023 07:30:00 08/08/2023	- 1 -	ND ug/L	.0027 - .01	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Ethylbenzene E624	07/27/2023 07:30:00 07/28/2023	- 1 -	ND lb/day	.018 - .0898	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Ethylbenzene E624	07/27/2023 07:30:00 07/28/2023	- 1 -	ND ug/L	.1 - .5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Fluoranthene E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.0036 - .009	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Fluoranthene E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	.02 - .05	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Fluorene E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	.02 - .1	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Fluorene E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.0036 - .018	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Halomethanes, Sum E624	07/27/2023 07:30:00 07/28/2023	- 1 -	ND ug/L	.41 - 1.5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Halomethanes, Sum E624	07/27/2023 07:30:00 07/28/2023	- 1 -	ND lb/day	.0737 - .2695	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Heptachlor E625	07/27/2023 07:30:00 08/08/2023	- 1 -	ND ug/L	.0031 - .01	No -		CDF_Analytical_Calculated_01302024.zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Analytical Method	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-004	- -	- water	Heptachlor E625	07/27/2023 07:30:00 08/08/2023	- 1 -	ND lb/day	.001 - .002	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Heptachlor Epoxide E625	07/27/2023 07:30:00 08/08/2023	- 1 -	ND lb/day	.0005 - .0018	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Heptachlor Epoxide E625	07/27/2023 07:30:00 08/08/2023	- 1 -	ND ug/L	.0027 - .01	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Hexachlorobenzene E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	1 - 1	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Hexachlorobenzene E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.1796 - .1796	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Hexachlorobutadiene E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.0719 - .1796	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Hexachlorobutadiene E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	.4 - 1	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Hexachlorocyclopentadiene E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.1617 - .1796	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Hexachlorocyclopentadiene E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	.9 - 1	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Hexachloroethane E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	.4 - 1	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Hexachloroethane E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.0719 - .1796	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Indeno (1,2,3-cd) Pyrene E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.009 - .009	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Indeno (1,2,3-cd) Pyrene E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	.05 - .05	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Isophorone E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.0898 - .1796	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Isophorone E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	.5 - 1	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Lead, Total Recoverable E200.8	07/27/2023 07:30:00 07/31/2023	- 1 -	DNQ 0.12 ug/L	.12 - .2	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Lead, Total Recoverable E200.8	07/27/2023 07:30:00 07/31/2023	- 1 -	DNQ 0.022 lb/day	.0216 - .0359	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Mercury, Total Recoverable E245.1	07/27/2023 07:30:00 08/02/2023	- 1 -	ND ug/L	.12 - .2	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Mercury, Total Recoverable E245.1	07/27/2023 07:30:00 08/02/2023	- 1 -	ND lb/day	.0216 - .0359	No -		CDF_Analytical_Calculated_01302024.zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Analytical Method	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-004	- -	- water	Methylene Chloride E624	07/27/2023 07:30:00 07/28/2023	- 1 -	ND ug/L	.12 - .5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Methylene Chloride E624	07/27/2023 07:30:00 07/28/2023	- 1 -	ND lb/day	.0216 - .0898	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	N-Nitrosodi-n-Propylamine E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.0898 - .8982	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	N-Nitrosodi-n-Propylamine E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	.5 - 5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	N-Nitrosodimethylamine E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.1258 - .8982	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	N-Nitrosodimethylamine E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	.7 - 5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	N-Nitrosodiphenylamine E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	.7 - 1	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	N-Nitrosodiphenylamine E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.1258 - .1796	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Nickel, Total Recoverable E200.7	07/27/2023 07:30:00 08/14/2023	- 1 -	ND ug/L	5 - 9	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Nickel, Total Recoverable E200.7	07/27/2023 07:30:00 08/14/2023	- 1 -	ND lb/day	.8982 - 1.6168	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Nitrobenzene E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	.5 - 1	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Nitrobenzene E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.0898 - .1796	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	PCB-1016 E625	07/27/2023 07:30:00 08/08/2023	- 1 -	ND ug/L	.03 - .1	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	PCB-1016 E625	07/27/2023 07:30:00 08/08/2023	- 1 -	ND lb/day	.0054 - .018	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	PCB-1221 E625	07/27/2023 07:30:00 08/08/2023	- 1 -	ND lb/day	.0054 - .018	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	PCB-1221 E625	07/27/2023 07:30:00 08/08/2023	- 1 -	ND ug/L	.03 - .1	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	PCB-1232 E625	07/27/2023 07:30:00 08/08/2023	- 1 -	ND lb/day	.0054 - .018	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	PCB-1232 E625	07/27/2023 07:30:00 08/08/2023	- 1 -	ND ug/L	.03 - .1	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	PCB-1242 E625	07/27/2023 07:30:00 08/08/2023	- 1 -	ND lb/day	.0054 - .018	No -		CDF_Analytical_Calculated_01302024.zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Analytical Method	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-004	- -	- water	PCB-1242 E625	07/27/2023 07:30:00 08/08/2023	- 1 -	ND ug/L	.03 - .1	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	PCB-1248 E625	07/27/2023 07:30:00 08/08/2023	- 1 -	ND lb/day	.0054 - .018	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	PCB-1248 E625	07/27/2023 07:30:00 08/08/2023	- 1 -	ND ug/L	.03 - .1	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	PCB-1254 E625	07/27/2023 07:30:00 08/08/2023	- 1 -	ND lb/day	.0054 - .018	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	PCB-1254 E625	07/27/2023 07:30:00 08/08/2023	- 1 -	ND ug/L	.03 - .1	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	PCB-1260 E625	07/27/2023 07:30:00 08/08/2023	- 1 -	ND ug/L	.03 - .1	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	PCB-1260 E625	07/27/2023 07:30:00 08/08/2023	- 1 -	ND lb/day	.0054 - .018	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Phenanthrene E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.0036 - .009	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Phenanthrene E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	.02 - .05	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Phenols, Chlorinated E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.485 - 1.9761	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Phenols, Chlorinated E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	2.7 - 11	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Phenols, Non-chlorinated E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	1.3294 - 5.9282	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Phenols, Non-chlorinated E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	7.4 - 33	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Polychlorinated Biphenyls (PCBs), Sum E625	07/27/2023 07:30:00 08/08/2023	- 1 -	ND lb/day	.0377 - .1258	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Polychlorinated Biphenyls (PCBs), Sum E625	07/27/2023 07:30:00 08/08/2023	- 1 -	ND ug/L	.21 - .7	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Polynuclear Aromatic Hydrocarbons (PAHs) E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	.47 - 2.45	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Polynuclear Aromatic Hydrocarbons (PAHs) E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.0844 - .4401	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Pyrene E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.0036 - .009	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Pyrene E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	.02 - .05	No -		CDF_Analytical_Calculated_01302024.zip

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M-004	- -	- water	Radiation, Gross Alpha E900	07/27/2023 07:30:00 08/16/2023	- 1 -	= -3.19 PCi/L	- - -	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Radiation, Gross Beta E900	07/27/2023 07:30:00 08/16/2023	- 1 -	= 34.9 PCi/L	- - -	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Radioactivity E900	07/27/2023 07:30:00 08/16/2023	- 1 -	= 34.9 PCi/L	- - -	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Selenium, Total Recoverable E200.8	07/27/2023 07:30:00 07/31/2023	- 1 -	DNQ 0.92 ug/L	.52 - 2	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Selenium, Total Recoverable E200.8	07/27/2023 07:30:00 07/31/2023	- 1 -	DNQ 0.165 lb/day	.0934 - .3593	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Silver, Total Recoverable E200.7	07/27/2023 07:30:00 07/31/2023	- 1 -	ND lb/day	1.7964 - .6108	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Silver, Total Recoverable E200.7	07/27/2023 07:30:00 07/31/2023	- 1 -	ND ug/L	10 - 3.4	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	TCDD Equivalents SW8280	07/27/2023 07:30:00 08/05/2023	- 1 -	DNQ 0.0000004 lb/day	.000003 - .0001	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	TCDD Equivalents SW8280	07/27/2023 07:30:00 08/05/2023	- 1 -	DNQ 0.000002 ug/L	.00002 - .0006	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Tetrachloroethene E624	07/27/2023 07:30:00 07/28/2023	- 1 -	ND ug/L	.19 - .5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Tetrachloroethene E624	07/27/2023 07:30:00 07/28/2023	- 1 -	ND lb/day	.0341 - .0898	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Thallium, Total Recoverable E200.8	07/27/2023 07:30:00 07/31/2023	- 1 -	ND lb/day	.0198 - .1796	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Thallium, Total Recoverable E200.8	07/27/2023 07:30:00 07/31/2023	- 1 -	ND ug/L	.11 - 1	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Toluene E624	07/27/2023 07:30:00 07/28/2023	- 1 -	ND ug/L	.19 - .5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Toluene E624	07/27/2023 07:30:00 07/28/2023	- 1 -	ND lb/day	.0341 - .0898	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Toxaphene E625	07/27/2023 07:30:00 08/08/2023	- 1 -	ND lb/day	.0719 - .0898	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Toxaphene E625	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	.4 - .5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Tributyltin (TBT) DU	07/27/2023 07:30:00 08/17/2023	- 1 -	ND ug/L	.0023 - .005	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Tributyltin (TBT) DU	07/27/2023 07:30:00 08/17/2023	- 1 -	ND lb/day	.0004 - .0009	No -		CDF_Analytical_Calculated_01302024.zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Analytical Method	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-004	- -	- water	Trichloroethene E624	07/27/2023 07:30:00 07/28/2023	- 1 -	ND lb/day	.0359 - .0898	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Trichloroethene E624	07/27/2023 07:30:00 07/28/2023	- 1 -	ND ug/L	.2 - .5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Vinyl Chloride E624	07/27/2023 07:30:00 07/28/2023	- 1 -	ND ug/L	.25 - .5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Vinyl Chloride E624	07/27/2023 07:30:00 07/28/2023	- 1 -	ND lb/day	.0449 - .0898	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Zinc, Total Recoverable E200.7	07/27/2023 07:30:00 08/14/2023	- 1 -	= 14 ug/L	5 - 10	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Zinc, Total Recoverable E200.7	07/27/2023 07:30:00 08/14/2023	- 1 -	= 2.51 lb/day	.8982 - 1.7964	No -		CDF_Analytical_Calculated_01302024.zip

Calculated Values

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Calculation Type	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-004	- -	- water	1,1,1-Trichloroethane 30-Day Average	07/27/2023 07:30:00 07/28/2023	- 1 -	ND ug/L	.19 - .5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	1,1,1-Trichloroethane 30-Day Average	07/27/2023 07:30:00 07/28/2023	- 1 -	ND lb/day	.0341 - .0898	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	1,1,2,2-Tetrachloroethane 30-Day Average	07/27/2023 07:30:00 07/28/2023	- 1 -	ND lb/day	.0269 - .0898	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	1,1,2,2-Tetrachloroethane 30-Day Average	07/27/2023 07:30:00 07/28/2023	- 1 -	ND ug/L	.15 - .5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	1,1,2-Trichloroethane 30-Day Average	07/27/2023 07:30:00 07/28/2023	- 1 -	ND ug/L	.16 - .5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	1,1,2-Trichloroethane 30-Day Average	07/27/2023 07:30:00 07/28/2023	- 1 -	ND lb/day	.0287 - .0898	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	1,1-Dichloroethylene 30-Day Average	07/27/2023 07:30:00 07/28/2023	- 1 -	ND ug/L	.21 - .5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	1,1-Dichloroethylene 30-Day Average	07/27/2023 07:30:00 07/28/2023	- 1 -	ND lb/day	.0377 - .0898	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	1,2-Dichlorobenzene 30-Day Average	07/27/2023 07:30:00 07/28/2023	- 1 -	ND lb/day	.0485 - .0898	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	1,2-Dichlorobenzene 30-Day Average	07/27/2023 07:30:00 07/28/2023	- 1 -	ND ug/L	.27 - .5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	1,2-Dichloroethane 30-Day Average	07/27/2023 07:30:00 07/28/2023	- 1 -	ND lb/day	.0305 - .0898	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	1,2-Dichloroethane 30-Day Average	07/27/2023 07:30:00 07/28/2023	- 1 -	ND ug/L	.17 - .5	No -		CDF_Analytical_Calculated_01302024.zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Calculation Type	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-004	- -	- water	1,2-Diphenylhydrazine 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	.5 - 1	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	1,2-Diphenylhydrazine 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.0898 - .1796	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	1,3-Dichlorobenzene 30-Day Average	07/27/2023 07:30:00 07/28/2023	- 1 -	ND ug/L	.18 - .5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	1,3-Dichlorobenzene 30-Day Average	07/27/2023 07:30:00 07/28/2023	- 1 -	ND lb/day	.0323 - .0898	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	1,4-Dichlorobenzene 30-Day Average	07/27/2023 07:30:00 07/28/2023	- 1 -	ND ug/L	.18 - .5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	1,4-Dichlorobenzene 30-Day Average	07/27/2023 07:30:00 07/28/2023	- 1 -	ND lb/day	.0323 - .0898	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	2,4,6-Trichlorophenol 30-Day Average	07/27/2023 07:30:00 07/28/2023	- 1 -	ND lb/day	.0719 - .3593	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	2,4,6-Trichlorophenol 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	.4 - 2	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	2,4-DDD 30-Day Average	07/27/2023 07:30:00 08/09/2023	- 1 -	ND lb/day	.0005 - .0009	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	2,4-DDD 30-Day Average	07/27/2023 07:30:00 08/09/2023	- 1 -	ND ug/L	.003 - .005	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	2,4-DDE 30-Day Average	07/27/2023 07:30:00 08/09/2023	- 1 -	ND ug/L	.002 - .005	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	2,4-DDE 30-Day Average	07/27/2023 07:30:00 08/09/2023	- 1 -	ND lb/day	.0004 - .0009	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	2,4-DDT 30-Day Average	07/27/2023 07:30:00 08/09/2023	- 1 -	ND lb/day	.0004 - .0009	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	2,4-DDT 30-Day Average	07/27/2023 07:30:00 08/09/2023	- 1 -	ND ug/L	.002 - .005	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	2,4-Dinitrophenol 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	2 - 5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	2,4-Dinitrophenol 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.3593 - .8982	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	2,4-Dinitrotoluene 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.1617 - .8982	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	2,4-Dinitrotoluene 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	.9 - 5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	3,3-Dichlorobenzidine 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.8982 - .8982	No -		CDF_Analytical_Calculated_01302024.zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Calculation Type	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-004	- -	- water	3,3-Dichlorobenzidine 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	5 - 5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	4,4-DDD 30-Day Average	07/27/2023 07:30:00 08/08/2023	- 1 -	ND lb/day	.0004 - .0018	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	4,4-DDD 30-Day Average	07/27/2023 07:30:00 08/08/2023	- 1 -	ND ug/L	.0021 - .01	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	4,4-DDE 30-Day Average	07/27/2023 07:30:00 08/08/2023	- 1 -	ND lb/day	.0002 - .0018	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	4,4-DDE 30-Day Average	07/27/2023 07:30:00 08/08/2023	- 1 -	ND ug/L	.0009 - .01	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	4,4-DDT 30-Day Average	07/27/2023 07:30:00 08/08/2023	- 1 -	ND lb/day	.0007 - .0018	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	4,4-DDT 30-Day Average	07/27/2023 07:30:00 08/08/2023	- 1 -	ND ug/L	.0038 - .01	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	4,6-Dinitro-2-methylphenol 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.3593 - .8982	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	4,6-Dinitro-2-methylphenol 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	2 - 5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Acenaphthylene 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	.02 - .2	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Acenaphthylene 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.0036 - .0359	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Acrolein 30-Day Average	07/27/2023 07:30:00 07/28/2023	- 1 -	ND ug/L	.81 - 2	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Acrolein 30-Day Average	07/27/2023 07:30:00 07/28/2023	- 1 -	ND lb/day	.1455 - .3593	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Acrylonitrile 30-Day Average	07/27/2023 07:30:00 07/28/2023	- 1 -	ND ug/L	.75 - 2	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Acrylonitrile 30-Day Average	07/27/2023 07:30:00 07/28/2023	- 1 -	ND lb/day	.1347 - .3593	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Aldrin 30-Day Average	07/27/2023 07:30:00 08/08/2023	- 1 -	ND lb/day	.0003 - .0009	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Aldrin 30-Day Average	07/27/2023 07:30:00 08/08/2023	- 1 -	ND ug/L	.0014 - .005	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Ammonia, Total (as N) 6-Month Median	07/12/2023 07:00:00 07/22/2023	- 1 -	= 36000 ug/L	.31 - .5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Ammonia, Total (as N) 6-Month Median	07/12/2023 07:00:00 07/22/2023	- 1 -	= 6335 lb/day	.0546 - .088	No -		CDF_Analytical_Calculated_01302024.zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Calculation Type	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-004	- -	- water	Ammonia, Total (as N) 6-Month Median	07/12/2023 07:00:00 07/22/2023	- 2 -	= 36000 ug/L	.31 - .5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Ammonia, Total (as N) 6-Month Median	07/12/2023 07:00:00 07/22/2023	- 2 -	= 6335 lb/day	.0546 - .088	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Anthracene 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.0054 - .0539	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Anthracene 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	.03 - .3	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Antimony, Total Recoverable 30-Day Average	07/27/2023 07:30:00 08/14/2023	- 1 -	ND lb/day	1.0779 - 2.3354	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Antimony, Total Recoverable 30-Day Average	07/27/2023 07:30:00 08/14/2023	- 1 -	ND ug/L	6 - 13	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Arsenic, Total Recoverable 6-Month Median	07/27/2023 07:30:00 08/14/2023	- 1 -	ND ug/L	4 - 8	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Arsenic, Total Recoverable 6-Month Median	07/27/2023 07:30:00 08/14/2023	- 1 -	ND lb/day	.7186 - 1.4371	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Benzene 30-Day Average	07/27/2023 07:30:00 07/28/2023	- 1 -	ND ug/L	.18 - .5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Benzene 30-Day Average	07/27/2023 07:30:00 07/28/2023	- 1 -	ND lb/day	.0323 - .0898	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Benzidine 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.7186 - .8982	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Benzidine 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	4 - 5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Benzo(a)anthracene 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	.05 - .3	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Benzo(a)anthracene 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.009 - .0539	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Benzo(a)pyrene 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	.04 - .3	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Benzo(a)pyrene 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.0072 - .0539	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Benzo(b)fluoranthene 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.009 - .0539	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Benzo(b)fluoranthene 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	.05 - .3	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Benzo(ghi)perylene 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.009 - .018	No -		CDF_Analytical_Calculated_01302024.zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Calculation Type	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-004	- -	- water	Benzo(ghi)perylene 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	.05 - .1	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Benzo(k)fluoranthene 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	.02 - .3	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Benzo(k)fluoranthene 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.0036 - .0539	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Beryllium, Total Recoverable 30-Day Average	07/27/2023 07:30:00 07/31/2023	- 1 -	ND ug/L	.22 - .5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Beryllium, Total Recoverable 30-Day Average	07/27/2023 07:30:00 07/31/2023	- 1 -	ND lb/day	.0395 - .0898	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	BHC, Sum 6-Month Median	07/27/2023 07:30:00 08/08/2023	- 1 -	ND ug/L	.0112 - .03	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	BHC, Sum 6-Month Median	07/27/2023 07:30:00 08/08/2023	- 1 -	ND lb/day	.002 - .0054	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Bis (2-Chloroethoxy) Methane 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	.5 - 5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Bis (2-Chloroethoxy) Methane 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.0898 - .8982	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Bis (2-Chloroethyl) Ether 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	.9 - 1	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Bis (2-Chloroethyl) Ether 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.1617 - .1796	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Bis (2-Chloroisopropyl) Ether 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	.9 - 2	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Bis (2-Chloroisopropyl) Ether 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.1617 - .3593	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Bis (2-Ethylhexyl) Phthalate 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.0898 - .1796	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Bis (2-Ethylhexyl) Phthalate 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	.5 - 1	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Bromoform 30-Day Average	07/27/2023 07:30:00 07/28/2023	- 1 -	ND ug/L	.15 - .5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Bromoform 30-Day Average	07/27/2023 07:30:00 07/28/2023	- 1 -	ND lb/day	.0269 - .0898	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Bromomethane 30-Day Average	07/27/2023 07:30:00 07/28/2023	- 1 -	ND ug/L	.13 - .5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Bromomethane 30-Day Average	07/27/2023 07:30:00 07/28/2023	- 1 -	ND lb/day	.0234 - .0898	No -		CDF_Analytical_Calculated_01302024.zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Calculation Type	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-004	- -	- water	Cadmium, Total Recoverable 6-Month Median	07/27/2023 07:30:00 08/14/2023	- 1 -	ND lb/day	.7186 - 1.6168	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Cadmium, Total Recoverable 6-Month Median	07/27/2023 07:30:00 08/14/2023	- 1 -	ND ug/L	4 - 9	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Carbon Tetrachloride 30-Day Average	07/27/2023 07:30:00 07/28/2023	- 1 -	ND lb/day	.0287 - .0898	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Carbon Tetrachloride 30-Day Average	07/27/2023 07:30:00 07/28/2023	- 1 -	ND ug/L	.16 - .5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Chlordane 30-Day Average	07/27/2023 07:30:00 08/08/2023	- 1 -	ND lb/day	.0006 - .0018	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Chlordane 30-Day Average	07/27/2023 07:30:00 08/08/2023	- 1 -	ND ug/L	.0034 - .01	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Chlorobenzene 30-Day Average	07/27/2023 07:30:00 07/28/2023	- 1 -	ND lb/day	.0323 - .0898	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Chlorobenzene 30-Day Average	07/27/2023 07:30:00 07/28/2023	- 1 -	ND ug/L	.18 - .5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Chloroform 30-Day Average	07/27/2023 07:30:00 07/28/2023	- 1 -	DNQ 0.3 ug/L	.17 - .5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Chloroform 30-Day Average	07/27/2023 07:30:00 07/28/2023	- 1 -	DNQ 0.0539 lb/day	.0305 - .0898	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Chloromethane 30-Day Average	07/27/2023 07:30:00 07/28/2023	- 1 -	ND lb/day	.0234 - .0898	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Chloromethane 30-Day Average	07/27/2023 07:30:00 07/28/2023	- 1 -	ND ug/L	.13 - .5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Chromium, Total Recoverable 6-Month Median	07/27/2023 07:30:00 08/14/2023	- 1 -	ND ug/L	4 - 9	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Chromium, Total Recoverable 6-Month Median	07/27/2023 07:30:00 08/14/2023	- 1 -	ND lb/day	.7186 - 1.6168	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Chrysene 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	.05 - .3	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Chrysene 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.009 - .0539	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	cis-1,3-Dichloropropene 30-Day Average	07/27/2023 07:30:00 07/28/2023	- 1 -	ND lb/day	.0162 - .0898	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	cis-1,3-Dichloropropene 30-Day Average	07/27/2023 07:30:00 07/28/2023	- 1 -	ND ug/L	.09 - .5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Copper, Total Recoverable 6-Month Median	07/27/2023 07:30:00 08/07/2023	- 1 -	= 0.754 lb/day	.0413 - .0898	No -		CDF_Analytical_Calculated_01302024.zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Calculation Type	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-004	- -	- water	Copper, Total Recoverable 6-Month Median	07/27/2023 07:30:00 08/07/2023	- 1 -	= 4.2 ug/L	.23 - .5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Cyanide, Total (as CN) 6-Month Median	07/27/2023 07:30:00 08/04/2023	- 1 -	DNQ 0.862 lb/day	.4491 - .8982	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Cyanide, Total (as CN) 6-Month Median	07/27/2023 07:30:00 08/04/2023	- 1 -	DNQ 4.8 ug/L	2.5 - 5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	DDT/DDD/DDE, Sum of P,P & O,P Isomers 30-Day Average	07/27/2023 07:30:00 08/09/2023	- 1 -	ND ug/L	.0138 - .045	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	DDT/DDD/DDE, Sum of P,P & O,P Isomers 30-Day Average	07/27/2023 07:30:00 08/09/2023	- 1 -	ND lb/day	.0025 - .0081	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Di-n-butyl Phthalate 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	.4 - 5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Di-n-butyl Phthalate 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.0719 - .8982	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Dibenzo(a,h)anthracene 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	.05 - .1	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Dibenzo(a,h)anthracene 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.009 - .018	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Dibromochloromethane 30-Day Average	07/27/2023 07:30:00 07/28/2023	- 1 -	ND lb/day	.0305 - .0449	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Dibromochloromethane 30-Day Average	07/27/2023 07:30:00 07/28/2023	- 1 -	ND ug/L	.17 - .25	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Dichlorobenzenes, Sum 30-Day Average	07/27/2023 07:30:00 07/28/2023	- 1 -	ND ug/L	.45 - 1	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Dichlorobenzenes, Sum 30-Day Average	07/27/2023 07:30:00 07/28/2023	- 1 -	ND lb/day	.0808 - .1796	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Dichlorobromomethane 30-Day Average	07/27/2023 07:30:00 07/28/2023	- 1 -	ND lb/day	.0144 - .0898	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Dichlorobromomethane 30-Day Average	07/27/2023 07:30:00 07/28/2023	- 1 -	ND ug/L	.08 - .5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Dieldrin 30-Day Average	07/27/2023 07:30:00 08/08/2023	- 1 -	ND lb/day	.0003 - .0018	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Dieldrin 30-Day Average	07/27/2023 07:30:00 08/08/2023	- 1 -	ND ug/L	.0017 - .01	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Diethyl Phthalate 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	.5 - 2	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Diethyl Phthalate 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.0898 - .3593	No -		CDF_Analytical_Calculated_01302024.zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Calculation Type	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-004	- -	- water	Dimethyl Phthalate 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.0898 - .3593	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Dimethyl Phthalate 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	.5 - 2	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Endosulfans, Sum 6-Month Median	07/27/2023 07:30:00 08/08/2023	- 1 -	ND ug/L	.0076 - .03	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Endosulfans, Sum 6-Month Median	07/27/2023 07:30:00 08/08/2023	- 1 -	ND lb/day	.0014 - .0054	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Endrin 6-Month Median	07/27/2023 07:30:00 08/08/2023	- 1 -	ND ug/L	.0027 - .01	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Endrin 6-Month Median	07/27/2023 07:30:00 08/08/2023	- 1 -	ND lb/day	.0005 - .0018	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Ethylbenzene 30-Day Average	07/27/2023 07:30:00 07/28/2023	- 1 -	ND lb/day	.018 - .0898	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Ethylbenzene 30-Day Average	07/27/2023 07:30:00 07/28/2023	- 1 -	ND ug/L	.1 - .5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Fluoranthene 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.0036 - .009	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Fluoranthene 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	.02 - .05	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Fluorene 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	.02 - .1	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Fluorene 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.0036 - .018	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Halomethanes, Sum 30-Day Average	07/27/2023 07:30:00 07/28/2023	- 1 -	ND lb/day	.0737 - .2695	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Halomethanes, Sum 30-Day Average	07/27/2023 07:30:00 07/28/2023	- 1 -	ND ug/L	.41 - 1.5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Heptachlor 30-Day Average	07/27/2023 07:30:00 08/08/2023	- 1 -	ND lb/day	.001 - .002	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Heptachlor 30-Day Average	07/27/2023 07:30:00 08/08/2023	- 1 -	ND ug/L	.0031 - .01	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Heptachlor Epoxide 30-Day Average	07/27/2023 07:30:00 08/08/2023	- 1 -	ND ug/L	.0027 - .01	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Heptachlor Epoxide 30-Day Average	07/27/2023 07:30:00 08/08/2023	- 1 -	ND lb/day	.0005 - .0018	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Hexachlorobenzene 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	1 - 1	No -		CDF_Analytical_Calculated_01302024.zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Calculation Type	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-004	- -	- water	Hexachlorobenzene 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.1796 - .1796	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Hexachlorobutadiene 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.0719 - .1796	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Hexachlorobutadiene 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	.4 - 1	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Hexachlorocyclopentadiene 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	.9 - 1	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Hexachlorocyclopentadiene 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.1617 - .1796	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Hexachloroethane 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.0719 - .1796	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Hexachloroethane 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	.4 - 1	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Indeno (1,2,3-cd) Pyrene 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	.05 - .05	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Indeno (1,2,3-cd) Pyrene 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.009 - .009	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Isophorone 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	.5 - 1	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Isophorone 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.0898 - .1796	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Lead, Total Recoverable 6-Month Median	07/27/2023 07:30:00 07/31/2023	- 1 -	DNQ 0.12 ug/L	.12 - .2	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Lead, Total Recoverable 6-Month Median	07/27/2023 07:30:00 07/31/2023	- 1 -	DNQ 0.022 lb/day	.0216 - .0359	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Mercury, Total Recoverable 6-Month Median	07/27/2023 07:30:00 08/02/2023	- 1 -	ND ug/L	.12 - .2	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Mercury, Total Recoverable 6-Month Median	07/27/2023 07:30:00 08/02/2023	- 1 -	ND lb/day	.0216 - .0359	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Methylene Chloride 30-Day Average	07/27/2023 07:30:00 07/28/2023	- 1 -	ND ug/L	.12 - .5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Methylene Chloride 30-Day Average	07/27/2023 07:30:00 07/28/2023	- 1 -	ND lb/day	.0216 - .0898	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	N-Nitrosodi-n-Propylamine 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.0898 - .8982	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	N-Nitrosodi-n-Propylamine 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	.5 - 5	No -		CDF_Analytical_Calculated_01302024.zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Calculation Type	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-004	- -	- water	N-Nitrosodimethylamine 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.1258 - .8982	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	N-Nitrosodimethylamine 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	.7 - 5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	N-Nitrosodiphenylamine 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.1258 - .1796	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	N-Nitrosodiphenylamine 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	.7 - 1	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Nickel, Total Recoverable 6-Month Median	07/27/2023 07:30:00 08/14/2023	- 1 -	ND ug/L	5 - 9	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Nickel, Total Recoverable 6-Month Median	07/27/2023 07:30:00 08/14/2023	- 1 -	ND lb/day	.8982 - 1.6168	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Nitrobenzene 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	.5 - 1	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Nitrobenzene 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.0898 - .1796	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	PCB-1016 30-Day Average	07/27/2023 07:30:00 08/08/2023	- 1 -	ND lb/day	.0054 - .018	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	PCB-1016 30-Day Average	07/27/2023 07:30:00 08/08/2023	- 1 -	ND ug/L	.03 - .1	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	PCB-1221 30-Day Average	07/27/2023 07:30:00 08/08/2023	- 1 -	ND ug/L	.03 - .1	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	PCB-1221 30-Day Average	07/27/2023 07:30:00 08/08/2023	- 1 -	ND lb/day	.0054 - .018	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	PCB-1232 30-Day Average	07/27/2023 07:30:00 08/08/2023	- 1 -	ND ug/L	.03 - .1	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	PCB-1232 30-Day Average	07/27/2023 07:30:00 08/08/2023	- 1 -	ND lb/day	.0054 - .018	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	PCB-1242 30-Day Average	07/27/2023 07:30:00 08/08/2023	- 1 -	ND lb/day	.0054 - .018	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	PCB-1242 30-Day Average	07/27/2023 07:30:00 08/08/2023	- 1 -	ND ug/L	.03 - .1	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	PCB-1248 30-Day Average	07/27/2023 07:30:00 08/08/2023	- 1 -	ND ug/L	.03 - .1	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	PCB-1248 30-Day Average	07/27/2023 07:30:00 08/08/2023	- 1 -	ND lb/day	.0054 - .018	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	PCB-1254 30-Day Average	07/27/2023 07:30:00 08/08/2023	- 1 -	ND ug/L	.03 - .1	No -		CDF_Analytical_Calculated_01302024.zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Calculation Type	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-004	- -	- water	PCB-1254 30-Day Average	07/27/2023 07:30:00 08/08/2023	- 1 -	ND lb/day	.0054 - .018	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	PCB-1260 30-Day Average	07/27/2023 07:30:00 08/08/2023	- 1 -	ND lb/day	.0054 - .018	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	PCB-1260 30-Day Average	07/27/2023 07:30:00 08/08/2023	- 1 -	ND ug/L	.03 - .1	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Phenanthrene 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	.02 - .05	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Phenanthrene 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.0036 - .009	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Phenols, Chlorinated 6-Month Median	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.485 - 1.9761	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Phenols, Chlorinated 6-Month Median	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	2.7 - 11	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Phenols, Non-chlorinated 6-Month Median	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	7.4 - 33	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Phenols, Non-chlorinated 6-Month Median	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	1.3294 - 5.9282	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Polychlorinated Biphenyls (PCBs), Sum 30-Day Average	07/27/2023 07:30:00 08/08/2023	- 1 -	ND ug/L	.21 - .7	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Polychlorinated Biphenyls (PCBs), Sum 30-Day Average	07/27/2023 07:30:00 08/08/2023	- 1 -	ND lb/day	.0377 - .1258	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Polynuclear Aromatic Hydrocarbons (PAHs) 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	.47 - 2.45	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Polynuclear Aromatic Hydrocarbons (PAHs) 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.0844 - .4401	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Pyrene 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	.02 - .05	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Pyrene 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND lb/day	.0036 - .009	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Selenium, Total Recoverable 6-Month Median	07/27/2023 07:30:00 07/31/2023	- 1 -	DNQ 0.165 lb/day	.0934 - .3593	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Selenium, Total Recoverable 6-Month Median	07/27/2023 07:30:00 07/31/2023	- 1 -	DNQ 0.92 ug/L	.52 - 2	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Silver, Total Recoverable 6-Month Median	07/27/2023 07:30:00 07/31/2023	- 1 -	ND lb/day	1.7964 - .6108	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Silver, Total Recoverable 6-Month Median	07/27/2023 07:30:00 07/31/2023	- 1 -	ND ug/L	10 - 3.4	No -		CDF_Analytical_Calculated_01302024.zip

Location	Collection Method, Depth (m)	Sample Type, Matrix	Parameter, Calculation Type	Sample Date, Sample Time, Analysis Date	Field Rep, Lab Rep, Lab Batch	Result, Units	MDL, ML, RL	Review Priority, QA Codes	Comments	Data Source
M-004	- -	- water	TCDD Equivalents 30-Day Average	07/27/2023 07:30:00 08/05/2023	- 1 -	DNQ 0.000002 ug/L	.00002 - .0006	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	TCDD Equivalents 30-Day Average	07/27/2023 07:30:00 08/05/2023	- 1 -	DNQ 0.0000004 lb/day	.000003 - .0001	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Tetrachloroethene 30-Day Average	07/27/2023 07:30:00 07/28/2023	- 1 -	ND lb/day	.0341 - .0898	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Tetrachloroethene 30-Day Average	07/27/2023 07:30:00 07/28/2023	- 1 -	ND ug/L	.19 - .5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Thallium, Total Recoverable 30-Day Average	07/27/2023 07:30:00 07/31/2023	- 1 -	ND ug/L	.11 - 1	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Thallium, Total Recoverable 30-Day Average	07/27/2023 07:30:00 07/31/2023	- 1 -	ND lb/day	.0198 - .1796	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Toluene 30-Day Average	07/27/2023 07:30:00 07/28/2023	- 1 -	ND lb/day	.0341 - .0898	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Toluene 30-Day Average	07/27/2023 07:30:00 07/28/2023	- 1 -	ND ug/L	.19 - .5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Toxaphene 30-Day Average	07/27/2023 07:30:00 08/08/2023	- 1 -	ND lb/day	.0719 - .0898	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Toxaphene 30-Day Average	07/27/2023 07:30:00 08/07/2023	- 1 -	ND ug/L	.4 - .5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Tributyltin (TBT) 30-Day Average	07/27/2023 07:30:00 08/17/2023	- 1 -	ND lb/day	.0004 - .0009	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Tributyltin (TBT) 30-Day Average	07/27/2023 07:30:00 08/17/2023	- 1 -	ND ug/L	.0023 - .005	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Trichloroethene 30-Day Average	07/27/2023 07:30:00 07/28/2023	- 1 -	ND ug/L	.2 - .5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Trichloroethene 30-Day Average	07/27/2023 07:30:00 07/28/2023	- 1 -	ND lb/day	.0359 - .0898	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Vinyl Chloride 30-Day Average	07/27/2023 07:30:00 07/28/2023	- 1 -	ND ug/L	.25 - .5	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Vinyl Chloride 30-Day Average	07/27/2023 07:30:00 07/28/2023	- 1 -	ND lb/day	.0449 - .0898	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Zinc, Total Recoverable 6-Month Median	07/27/2023 07:30:00 08/14/2023	- 1 -	= 2.51 lb/day	.8982 - 1.7964	No -		CDF_Analytical_Calculated_01302024.zip
M-004	- -	- water	Zinc, Total Recoverable 6-Month Median	07/27/2023 07:30:00 08/14/2023	- 1 -	= 14 ug/L	5 - 10	No -		CDF_Analytical_Calculated_01302024.zip

Lab Batches

No Lab Batch Data Available / Reported

Questionnaire

No Questionnaire Available

Certificate

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

I certify that I am Octavio Navarrete and am authorized to submit this report on behalf of Carlsbad WRF / Encina Ocean Outfall / Encina Water Pollution Control Facility / Vallecitos WD Meadowlark WRP. I understand that I am submitting the following report(s):

- Semi-Annual SMR (MONNPDES) report for H2 2023 (due 02/01/2024)

I understand that data submitted in this report(s) can be used by authorized agencies for water quality management related analyses and enforcement actions, if required.

I am also aware that my user ID, password, and answer to a challenge question constitute my electronic signature and any information I indicate I am electronically certifying contains my signature. I understand that my electronic signature is the legal equivalent of my handwritten signature. I certify that I have not violated any term in my Electronic Signature Agreement and that I am otherwise without any reason to believe that the confidentiality of my password and challenge question answers have been compromised now or at any time prior to this submission. I understand that this attestation of fact pertains to the implementation, oversight, and enforcement of a federal environmental program and must be true to the best of my knowledge.

Name: Octavio Navarrete

Title: Chief Plant Operator

Appendix B – Significant Industrial User Listing

Encina Wastewater Authority	Reporting Quarters	# of Inspections	Agency Monitoring	Self-Monitoring	Limit Violations	Reporting Quarter Status	Flow Rate (GPD)
Alsco Uniforms	1	0	0	0	0	C	
760 Shadowridge Drive	2	1	0	0	0	C	
Vista, CA, 92083	3	0	0	0	0	C	
Laundry - Local Limits	4	0	0	0	0	C	
Pretreatment: water recycling, shaker screens, micro filtration, centrifuge, ultra filtration							30,000
Bachem Americas, Inc.	1	0	1	1	0	C	
1271 Avenida Chelsea	2	0	1	1	0	SNC	
Vista, CA, 92081	3	0	1	1	0	C	
40 CFR Part 439, Subpart C PSNS	4	1	1	1	0	C	
Pretreatment: Settling, pH neutralization, hauling							1,450
Captek Softgel International, Inc.	1	3	1	6	1	SNC	
2710 Progress Street	2	4	2	10	5	SNC	
Vista, CA, 92081	3	1	1	2	1	SNC	
	4	0	2	6	1	SNC	
Pretreatment: settling/clarifier, oil skimmer equalization. pH neutralization, DAF							30,000
Carlsbad Technology, Inc.	1	1	2	2	0	C	
5923 Balfour Court	2	0	2	2	0	C	
Carlsbad, CA, 92008	3	0	2	2	1	NC	
40 CFR Part 439, Subpart D PSNS	4	0	2	0	0	C	
Pretreatment: pH neutralization							1,365
Cintas Corporation	1	0	2	1	1	NC	
460 West California Avenue	2	0	2	1	1	NC	
Vista, CA, 92084	3	1	1	2	0	C	
Laundry - Local Limits	4	0	1	1	0	C	
Pretreatment: settling, DAF							70,000
Glanbia Nutritionals	1	0	1	1	0	C	
2840 Loker Ave East	2	0	1	1	0	C	
#101, Carlsbad, CA, 92010	3	0	1	1	1	NC	
40 CFR Part 439, Subpart D PSNS	4	1	1	1	0	C	
Pretreatment: pH neutralization, settling/clarifier							750
Hollandia Dairy	1	0	1	1	0	C	
622 East Mission Road	2	1	1	1	0	C	
San Marcos, CA, 92069	3	0	1	1	0	C	
Food Processing - Local Limits	4	0	1	1	0	C	
Pretreatment: -							40,500

Encina Wastewater Authority	Reporting Quarters	# of Inspections	Agency Monitoring	Self-Monitoring	Limit Violations	Reporting Quarter Status	Flow Rate (GPD)
HRE Performance Wheels	1	0	1	1	0	C	
2611 Commerce Way	2	0	1	2	0	C	
#D, Vista, CA, 92081	3	0	1	0	0	C	
40 CFR Part 433 PSNS	4	1	1	1	0	SNC	
Pretreatment: hauling, recycling							50
Hughes Circuits, Inc.	1	0	1	3	0	C	
540 South Pacific Street	2	0	2	2	0	C	
San Marcos, CA, 92078	3	1	1	2	0	C	
40 CFR Part 433 PSNS	4	0	2	2	0	C	
Pretreatment: pH adjustment, precipitation & settling							14,500
Ionis Pharmaceuticals	1	0	0	0	0	C	
2282 Faraday Avenue	2	0	0	0	0	C	
Carlsbad, CA, 92008	3	1	0	0	0	C	
40 CFR Part 439, Subpart C PSNS	4	0	0	0	0	C	
Pretreatment: hauling							380
Javo Beverage Company	1	0	1	1	0	C	
1311 Specialty Dr.	2	0	1	1	0	C	
Vista, CA, 92081	3	0	1	1	0	C	
Beverage Manufacturing - Local Limits	4	1	1	0	0	C	
Pretreatment: pH neutralization, clarifier, hauling							43,000
Metal Etch Services	1	0	1	1	0	C	
1165 Linda Vista Drive	2	0	1	1	0	C	
San Marcos, CA, 92078	3	0	1	1	0	C	
40 CFR Part 433 PSNS	4	1	1	1	0	C	
Pretreatment: pH neutralization, hauling							360
Natural Alternatives International (Carlsbad)	1	0	1	2	0	C	
5928 Farnsworth Court	2	1	1	1	0	C	
Carlsbad, CA, 92008	3	0	1	1	1	NC	
40 CFR Part 439, Subpart D PSNS	4	1	0	0	0	C	
Pretreatment: settling/clarifier							650
Natural Alternatives International (Vista)	1	0	2	2	0	C	
1215 Park Center Drive	2	0	2	2	0	C	
Vista, CA, 92081	3	1	2	2	1	NC	
40 CFR Part 439, Subpart D PSNS	4	0	3	2	0	C	
Pretreatment: settling/clarifier							1,187

Encina Wastewater Authority	Reporting Quarters	# of Inspections	Agency Monitoring	Self-Monitoring	Limit Violations	Reporting Quarter Status	Flow Rate (GPD)
NEOTECH	1	0	0	0	0	C	
6350 Palomar Oaks Ct. Carlsbad	2	0	0	0	0	C	
CA 92011	3	1	0	0	0	C	
	4	0	0	0	0	C	
Pretreatment: filtration and hauling							1,900
Premier Nutra Pharma	1	0	1	2	0	C	
5800 Newton Drive	2	1	2	1	0	C	
Carlsbad, CA, 92008	3	0	1	1	0	C	
	4	0	1	1	0	C	
Pretreatment: settling/clarifier							2,100
Primarch Manufacturing, Inc.	1	0	2	2	1	SNC	
1211 Liberty Way	2	1	1	1	1	SNC	
Suite A, Vista, CA, 92083	3	0	2	4	7	SNC	
40 CFR Part 439, Subpart D PSNS	4	0	1	2	0	C	
Pretreatment: settling/clarifier, oil & grease removal							1,115
Prudential Overall Supply	1	0	1	1	0	C	
2485 Ash Street	2	0	1	1	0	C	
Vista, CA, 92081	3	0	1	1	0	C	
Laundry - Local Limits	4	1	1	1	0	C	
Pretreatment: flow equalization, pH neutralization, settling, DAF							80,000
SeaSpine, Inc.	1	0	1	1	0	C	
5770 Armada Drive	2	1	1	2	0	C	
Carlsbad, CA, 92008	3	0	1	1	1	NC	
40 CFR Part 433 PSNS	4	0	2	1	0	C	
Pretreatment: hauling							300
Select Supplements, Inc.	1	1	3	1	1	NC	
2390 Oak Ridge Way	2	0	1	2	0	C	
Vista, CA, 92081	3	0	1	2	0	C	
40 CFR Part 439, Subpart D PSNS	4	1	1	1	0	C	
Pretreatment: settling/clarifier							4,300
Versum Materials US, LLC	1	1	1	1	0	C	
1969 Palomar Oaks Way	2	0	1	1	0	C	
Carlsbad, CA, 92011	3	0	1	1	0	C	
40 CFR Part 433 PSNS	4	0	1	1	0	C	

Encina Wastewater Authority	Reporting Quarters	# of Inspections	Agency Monitoring	Self-Monitoring	Limit Violations	Reporting Quarter Status	Flow Rate (GPD)
Pretreatment: pH neutralization							7,150

Reporting Quarters	# of Inspections	Agency Monitoring	Self-Monitoring	Limit Violations
1	18	33	40	7
2	31	33	42	7
3	40	29	35	14
4	29	32	33	4
Grand Total	118	127	150	32

EC#	Company/Industry	File Type	Date	Notes	Penalty	NR Costs
23-0002	Select Supplements, Inc.	NOV	1/19/2023	12/21-22/2022 Q4 SM pH5.4 & Ph <5 (3V in 12 months)	$1,350.00	$100.00
23-0003	Jif-Pak Manufacturing, Inc.	NOV	1/19/2023	Recheck (NOV 22-0087) (2000 mg/l) Vio O/G _late Report	$1,100.00	$100.00
23-0004	Jif-Pak Manufacturing, Inc.	NOV	1/23/2023	Recheck (NOV 22-0088) Late Report >30 Days	$250.00	$100.00
23-0005	Fresh Creative Foods	NOV	1/23/2023	BOD V2	$250.00	$100.00
23-0006	Primarch Manufacturing, Inc.	NOV	1/23/2023	POTW Q4 Acetone V1 MA (SNC)	$0.00	$100.00
23-0008	Pizza Port Brewing Company Bressi Ranch	NOV	1/25/2023	pH SM logs (addl Monitoring) <5.5 (1V in 12 months)	$0.00	$100.00
23-0009	Select Supplements, Inc.	NOV	1/30/2023	POTW pH 5.0 (4V in 12 months)	$1,000.00	$100.00
23-0010	Cintas Corporation	NOV	1/30/2023	Q3 & Q4 Incomplete Report Metals	$500.00	$100.00
23-0011	Hughes Circuits, Inc.	NOV	1/31/2023	Q4 SM Incomplete Report (CN Missing)	$0.00	$100.00
23-0012	Lancer Orthodontics	NOV	1/31/2023	Late CSR V1	$100.00	$100.00
23-0013	Carlsbad Technology, Inc.	NOV	2/2/2023	Q4 Failure to Monitor SP#1 & SP#2 V1	$2,000.00	$100.00
23-0014	Primarch Manufacturing, Inc.	NOV	2/2/2023	Incomplete Report_SM Q3_Q4_Acetone_Lab Error_Late Report	$500.00	$100.00
23-0015	Premier Nutra Pharma	NOV	2/2/2023	Q3 Failure to Monitor	$1,000.00	$100.00
23-0016	Glanbia Nutritionals	NOV	2/6/2023	Q3 SM pH 4.6 V1	$100.00	$100.00
23-0017	Glanbia Nutritionals	NOV	2/6/2023	Q4 SM Zn 42 V	$0.00	$100.00
23-0018	Captek Softgel International, Inc.	NOV	2/9/2023	Failure to meet Interim CS date, Failure to meet the final CS date.	$0.00	$0.00
23-0019	Captek Softgel International, Inc.	NOV	2/9/2023	Violations (11-15 BOD, V5-7 FTN)	$8,000.00	$100.00
23-0020	Javo Beverage Company	NOV	2/8/2023	pH SM <5.5 FTN, Failure to properly operate and maintain PTS V1 in 12 months	$100.00	$100.00
23-0023	Fresh Creative Foods	NOV	3/7/2023	BOD SM V3 in 12 months	$1,000.00	$100.00
23-0025	Jif-Pak Manufacturing, Inc.	NOV	3/14/2023	Late Report V2 in 12 months	$500.00	$100.00
23-0026	Glanbia Nutritionals	NOV	3/13/2023	Late report	$100.00	$100.00
23-0034	Fresh Creative Foods	NOV	5/4/2023	POTW Check Back BOD VX in 12 months	$1,000.00	$100.00
23-0035	Fresh Creative Foods	NOV	5/4/2023	Q1 POTW BOD VX in 12 months	$1,000.00	$100.00
23-0036	Premier Nutra Pharma	NOV	5/5/2023	Incomplete Report_SM Q3_1666_Lab Error_ > 30 Day Late Report	$2,000.00	$100.00
23-0037	Cintas Corporation	NOV	2/8/2023	BOD POTW V5	$1,000.00	$100.00
23-0039	Captek Softgel International, Inc.	NOV/Show Cause Hearing	5/15/2023	Show Cause Hearing Failure to Comply with the Compliance Schedule	$0.00	$100.00
23-0040	Captek Softgel International, Inc.	NOV	5/18/2023	V12 BOD, V1 TSS, FTN 5 V15 BOD , V6 FTN	$4,000.00	$100.00
23-0043	Captek Softgel International, Inc.	NOV	5/25/2023	BOD SM V13 in 12 months	$1,000.00	$100.00
23-0051	Captek Softgel International, Inc.	NOV	7/12/2023	BOD V11, TSS V2 in 12 months	$1,250.00	$100.00
23-0052	Cintas Corporation	NOV	7/13/2023	BOD V5 in 12 months	$1,000.00	$100.00
23-0054	Captek Softgel International, Inc.	NOV	7/18/2023	TSS V3 in 12 months	$1,000.00	$100.00
23-0057	Ostendo Technology	NOV	7/15/2023	Late Report V1 in 12 months	$100.00	$100.00
23-0058	Javo Beverage Company	NOV	8/15/2023	Late Report V2 in 12 months	$500.00	$100.00
23-0059	American Meta-Pack Company, Inc	NOV	8/10/2023	Late Report V1 in 12 months	$0.00	$100.00
23-0060	Primarch Manufacturing, Inc.	NOV	8/10/2023	Q1 MA Acetone, FTN V?, incomplete rpt V? in 12 months	$350.00	$100.00
23-0061	Primarch Manufacturing, Inc.	NOV	8/10/2023	Q2 FTM pH V? O/G and FTN V? in 12 months	$1,000.00	$100.00
23-0072	Primarch Manufacturing, Inc.	NOV	9/13/2023	O/G V2 7090 mg/l, pH V1 5.3 SU, and FTN 3 & 4.	$2,250.00	$100.00
23-0073	American Meta-Pack Company, Inc	NOV	9/12/2023	Late Report Greater than 30 Day Late V1	$250.00	$100.00
23-0076	Captek Softgel International, Inc.	NOV	9/27/2023	Late report V1 (NOV 23-0054)	$250.00	$100.00
23-0077	Primarch Manufacturing, Inc.	NOV	9/28/2023	pH V3 in 12 months	$1,000.00	$100.00
23-0078	SeaSpine, Inc.	NOV	9/26/2023	MA Cu V1 in 12 months	$0.00	$100.00
23-0080	Natural Alternatives International (Carlsbad)	NOV	9/26/2023	pH V1 in 12 months	$0.00	$100.00
23-0081	Natural Alternatives International (Vista)	NOV	9/26/2023	pH V1 in 12 months	$0.00	$100.00
23-0082	Fresh Creative Foods	NOV	9/28/2023	POTW Q3 V5 678.1 lbs/day BOD.	$1,000.00	$100.00
23-0083	Primarch Manufacturing, Inc.	NOV	9/28/2023	Additional Monitoring 2023 Q3 V O/G: 3770 mg/L, V TTO: 3.135 mg/L, 9/25/2023 Notified	$1,000.00	$100.00
23-0097	American Meta-Pack Company, Inc	NOV	10/17/2023	-	$500.00	$100.00
23-0098	Select Supplements, Inc.	NOV	10/18/2023	Violations found in process control log, for pH	$3,350.00	$100.00
23-0109	Primarch Manufacturing, Inc.	NOV	11/2/2023	Late Report 2 in 12 months	$500.00	$100.00
23-0110	Carlsbad Technology, Inc.	NOV	11/6/2023	Violation for O&G plus incomplete report for missing parameters	$0.00	$100.00
23-0115	Jif-Pak Manufacturing, Inc.	NOV	11/14/2023	OG 2 in 12 months, FTN 1 in 12 months	$350.00	$100.00
23-0118	Fresh Creative Foods	NOV	11/14/2023	-	$0.00	$100.00

23-0129	Captek Softgel International, Inc.	NOV	12/26/2023	On 11/7/2023, captek SM identified a BOD violation 547 lb/day. And failed to properly notify EWA within 24 hours.	$2,000.00	$100.00
23-0134	Fresh Creative Foods	NOV	12/6/2023	BOD V6 in 12 months	$1,000.00	$100.00
23-0135	AutoNation Chrysler Dodge Jeep Ram Fiat Carlsbad	NOV	12/6/2023	Late Report (application) V1 in 12 months	$100.00	$100.00
23-0136	AutoNation Mazda Carlsbad	NOV	12/6/2023	Late Report (Application) V1 in 12 months	$100.00	$100.00
23-0137	AutoNation Hyundai Carlsbad	NOV	12/6/2023	Late Report (Application) V1 in 12 months	$100.00	$100.00
23-0138	AutoNation Subaru	NOV	12/6/2023	Late Report (Application) V1 in 12 Months.	$100.00	$100.00
23-0146	Carlsbad Technology, Inc.	NOV	12/27/2023	Late Report (NOV 23-0110) V1 in 12 months	$100.00	$100.00
				# of NOVs	**58**	
				Subtotal	**$47,000.00**	**$5,700.00**
				TOTAL	**$52,700.00**	

Appendix C – Non-Significant Categorical Industrial User Listing

Appendix C.

Encina Wastewater Authority 2023 Pretreatment Annual Report

Non-Significant Categorical Industrial Users (NSCIUs)

Gematria Products, Inc.
2260 Rutherford Rd
Carlsbad, CA, 92008
Category - 40 CFR Part 439

Piercan USA, Inc.
160 Bosstick Blvd.
San Marcos, CA, 92069
Category - 40 CFR Part 428

Sabre Sciences, Inc.
2233 Faraday Ave
Ste. K, Carlsbad, CA, 92008
Category - 40 CFR Part 439

Seven Manufacturing
1420 Decision St
Suite C, Vista, CA, 92081
Category - 40 CFR Part 439

The GHT Companies
2465 Ash Street
Vista, CA, 92081
Category - 40 CFR Part 439

Appendix D – Pretreatment Program Budget

OPERATING EXPENSE SUMMARY: SOURCE CONTROL

PERSONNEL

		Actual FY2021	Budget FY2022	Projected FY2022	Recommended FY2023	% Change
5100	Salaries	$ 577,703	$ 452,195	$ 464,250	$ 464,446	3%
5200	Benefits	$ 195,490	$ 251,508	$ 117,849	$ 168,231	-33%
	Total Personnel Expenses	**$ 773,193**	**$ 703,703**	**$ 582,100**	**$ 632,677**	**-10%**

NON-PERSONNEL

			Actual FY2021	Budget FY2022	Projected FY2022	Recommended FY2023	% Change
40001	5930	Equipment Replacement	$ 382	$ 700	$ 770	$ 1,000	43%
40001	6120	Fuel & Lube	$ 1,369	$ 2,100	$ 980	$ 2,100	0%
40001	6310	Lab Equipment Repair	$ 10,882	$ 6,300	$ 9,790	$ 11,000	75%
40001	6330	Lab Supplies	$ 65	$ 750	$ 1,274	$ 1,600	113%
40001	6410	Laundry & Uniforms	$ 1,731	$ 2,000	$ 1,518	$ 2,000	0%
40001	6422	Legal Notices	$ 386	$ 750	$ 513	$ 750	0%
40001	6450	Professional Services	$ 50,644	$ 10,000	$ 48,500	$ 8,000	-20%
40001	7120	Printing & Reproduction	$ 13	$ 500	$ 250	$ -	-100%
40001	7130	Public Information	$ 2,083	$ 2,000	$ 493	$ 2,000	0%
		Total Non-Personnel Expenses	**$ 67,555**	**$ 25,100**	**$ 64,088**	**$ 28,450**	**13%**

INTERNAL SERVICE FUNDS

		Actual FY2021	Budget FY2022	Projected FY2022	Recommended FY2023	% Change
11001	Administration	$ 112,272	$ 124,322	$ 129,897	$ 155,424	25%
12001	Laboratory	$ 81,598	$ 60,000	$ 62,911	$ 85,801	43%
13001	Energy Management	$ 2,254	$ 2,417	$ 1,861	$ 1,996	-17%
	Total Internal Service Fund Expenses	**$ 196,124**	**$ 186,739**	**$ 194,669**	**$ 243,221**	**30%**
	Total Operating Expenses	**$ 1,036,872**	**$ 915,542**	**$ 840,857**	**$ 904,348**	**-1%**

OPERATING EXPENSE SUMMARY: SOURCE CONTROL

PERSONNEL

		Actual FY2022	Budget FY2023	Projected FY2023	Proposed FY2024	% Change
5100	Salaries	$ 439,328	$ 464,446	$ 464,274	$ 491,138	5.7%
5200	Benefits	$ 204,584	$ 168,231	$ 146,444	$ 192,521	14.4%
	Total Personnel Expenses	**$ 643,911**	**$ 632,677**	**$ 610,719**	**$ 683,659**	**8.1%**

NON-PERSONNEL

			Actual FY2022	Budget FY2023	Projected FY2023	Proposed FY2024	% Change
40001	5520	Books	$ -	$ -	$ -	$ -	0.0%
40001	5930	Equipment Replacement	$ 706	$ 1,000	$ 647	$ 6,000	500.0%
40001	6120	Fuel & Lube	$ 3,239	$ 2,100	$ 4,613	$ 3,200	52.4%
40001	6310	Lab Equipment Repair	$ 6,162	$ 11,000	$ 11,359	$ 11,000	0.0%
40001	6330	Lab Supplies	$ 743	$ 1,600	$ 1,779	$ 1,600	0.0%
40001	6410	Laundry & Uniforms	$ 1,951	$ 2,000	$ 1,771	$ 2,000	0.0%
40001	6422	Legal Notices	$ 696	$ 750	$ -	$ 750	0.0%
40001	6450	Professional Services	$ 31,425	$ 8,000	$ -	$ 75,000	837.5%
40001	7120	Printing & Reproduction	$ -	$ -	$ -	$ -	0.0%
40001	7130	Public Information	$ 1,000	$ 2,000	$ 3,690	$ 2,000	0.0%
		Total Non-Personnel Expenses	**$ 45,922**	**$ 28,450**	**$ 23,859**	**$ 101,550**	**256.9%**

INTERNAL SERVICE FUNDS

		Actual FY2022	Budget FY2023	Projected FY2023	Proposed FY2024	% Change
11001	Administration	$ 149,666	$ 155,424	$ 169,146	$ 179,560	15.5%
12001	Laboratory	$ 47,887	$ 85,801	$ 79,187	$ 52,057	-39.3%
13001	Energy Management	$ 1,859	$ 1,996	$ 2,735	$ 2,801	40.3%
	Total Internal Service Fund Expenses	**$ 199,412**	**$ 243,221**	**$ 251,068**	**$ 234,418**	**-3.6%**
	Total Operating Expenses	**$ 889,245**	**$ 904,348**	**$ 885,646**	**$ 1,019,627**	**12.7%**

Appendix E – SNC Publication

PUBLIC NOTICE

INDUSTRIAL USERS IN SIGNIFICANT NON-COMPLIANCE WITH SEWER DISCHARGE REQUIREMENTS

For the period from January 1, 2023 through December 31, 2023, the following INDUSTRIAL USERS, located in the Encina Wastewater Authority service area, were found to be in Significant Non-Compliance for exceeding applicable discharge limits or failing to meet reporting requirements, based on statistical criteria established by EPA and set forth at 40 CFR Part 403.8(f)(2)(viii). For further information please contact Alicia Appel, Encina Wastewater Authority Director of Environmental Compliance at (760) 438-3941, extension 3600.

Industry	Address	Pollutant/Other
Bachem Americas, Inc.	1271 Avenida Chelsea, Vista, CA, 92081	Chloroform
Captek Softgel International, Inc.	2710 Progress Street, Vista, CA 92081	Biochemical Oxygen Demand and Missed Interim Compliance Schedule Date
HRE Performance Wheels	2611 Commerce Way, #D, Vista, CA, 92081	Copper
Primarch Manufacturing, Inc.	1211 Liberty Way Vista, CA 92083	Acetone, Oil and Grease

The San Diego Union-Tribune

PROOF of PUBLICATION

STATE OF CALIFORNIA
County of San Diego

The Undersigned, declares under penalty of perjury under the laws of the State of California: That he/she is the resident of the County of San Diego. That he/she is and at all times herein mentioned was a citizen of the United States, over the age of twenty-one years, and that he/she is not a party to, nor interested in the above-entitled matter; that he/she is Chief Clerk for the publisher of

The San Diego Union-Tribune

a newspaper of general circulation, printed and published daily in the City of San Diego, County of San Diego, and which newspaper is published for the dissemination of local news and intelligence of a general character, and which newspaper at all the times herein mentioned had and still has a bona fide subscription list of paying subscribers, and which newspaper has been established, printed and published at regular intervals in the said City of San Diego, County of San Diego, for a period exceeding one year next preceding the date of publication of the notice hereinafter referred to, and which newspaper is not devoted to nor published for the interests, entertainment or instruction of a particular class, profession, trade, calling, race, or denomination, or any number of same; that the notice of which the annexed is a printed copy, has been published in said newspaper in accordance with the instruction of the person(s) requesting publication, and not in any supplement thereof on the following dates, to wit:

February 29, 2024

I certify under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

Dated in the City of San Diego, California
on this 1st of March 2024

Cgaza

Cris Gaza
San Diego Union-Tribune
Legal Advertising

Order ID: 11651595

PUBLIC NOTICE

INDUSTRIAL USERS IN SIGNIFICANT NON-COMPLIANCE WITH SEWER DISCHARGE REQUIREMENTS

For the period from January 1, 2023 through December 31, 2023, the following INDUSTRIAL USERS, located in the Encina Wastewater Authority service area, were found to be in Significant Non-Compliance for exceeding applicable discharge limits or failing to meet reporting requirements, based on statistical criteria established by EPA and set forth at 40 CFR Part 403.8(f)(2)(viii). For further information please contact Alicia Appel, Encina Wastewater Authority Director of Environmental Compliance at (760) 438-3941, extension 3600.

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Primarch Manufacturing, Inc.	1211 Liberty Way Vista, CA 92083	Acetone, Oil and Grease

SDUT 11651595

Kellogg CEO under fire for comments

The Washington Post

People angered by the rising cost of food have found another villain in the ongoing saga of inflation: the CEO of WK Kellogg, who recently suggested in a TV interview that cash-strapped consumers should eat cereal for dinner to save money.

The comments, which CEO Gary Pilnick made during an appearance last week on CNBC, soon began circulating on social media, where they struck a nerve with people, many of whom likened them to Marie Antoinette's infamously heartless — and possibly misquoted — "let them eat cake" line.

Pilnick touted a marketing campaign that his company launched urging people to give "chicken the night off" and instead consume bowls of Frosted Flakes and Frosted Mini-Wheats. Those advertisements don't make the explicit pitch for cereal as a cost-saving move, instead showing it as a fun way to shake up a family's dinner-table routine. But Pilnick brought it up when CNBC host Carl Quintanilla questioned him about rising prices at the grocery store.

Kellogg's CEO said cash-strapped consumers should eat cereal for dinner. DAVID TONELSON — DREAMSTIME VIA TNS

"The cereal category has always been quite affordable, and it tends to be a great destination when consumers are under pressure," Pilnick said. "If you think about the cost of cereal for a family versus what they might otherwise do, that's going to be much more affordable."

When Quintanilla pressed him, questioning whether that kind of a pitch might "land the wrong way," Pilnick doubled down. "We don't think so," he replied. "In fact, it's landing really well right now, Carl."

Clips of the interview started popping up on social media, including on a subreddit called /NotTheOnion, where people share real news that sounds like it could have come from the satirical website the Onion.

On Reddit, some people complained about the cost of cereal, corporate profits and "shrinkflation" — where the amount of food in a package is reduced, but the price stays the same — while others noted that the sugary breakfast food isn't actually a good substitute for a nutritious meal.

One user summed up the mood with an age-old rallying cry, "Eat the rich."

"Hey, um, what stage of capitalism is this?" TikToker Julie (@hoolie_r) asked in a video that has been watched more than 2.4 million times.

Some critics questioned whether the CEO, whose total compensation last year was $4.9 million — and that was before his promotion to the top job — was following his own company's suggestion. "I wonder what cereal he and his family are eating for dinner?" one user posted on X.

The anger was similar to the outrage that followed viral reports of eye-popping prices for Big Macs, with tabs for combo meals as high as $18. People have also been posting images of their grocery hauls to show rising prices — and one TikToker illustrated the inflationary trends by posting a video showing how the $20 grocery trip depicted in the 1990 movie "Home Alone" would now cost nearly three times more.

The supermarket sticker shock that people are feeling is real. Prices in the category have outpaced inflation, surging 26 percent over the past four years. And they're likely to stay elevated — food prices, once raised, rarely come down. The cost of cereal and bakery products has jumped more than 27 percent since the start of the coronavirus pandemic, government data shows.

While some of the increase is tied to ingredient costs, industry experts say fuel, labor and packaging are the biggest drivers of rising prices in the snack and cereal aisles. But Americans are still buying, leaving little incentive for snack conglomerates to lower prices.

Northrop Grumman announces layoffs in state

Los Angeles Times

Defense contractor Northrop Grumman Corp. has told its employees that it could cut as many as 1,000 jobs in Southern California.

The affected employees are part of the company's space sector and work at facilities in Redondo Beach, Manhattan Beach and Azusa. The company said it is working to match those employees with other, existing jobs within the company.

Although Northrop Grumman did not specify a reason for the cuts, the U.S. Space Force recently canceled a multibillion-dollar program to develop a classified military communications satellite with the company after cost overruns, a schedule delay and development difficulties, according to Bloomberg.

Recently, space has been a difficult place to do business. Earlier this month, NASA's Jet Propulsion Laboratory laid off 530 employees, or 8 percent of its workforce, in anticipation of massive federal budget cuts.

Northrop Grumman said it has notified the state's Employment Development Department and filed a Worker Adjustment and Retraining Notification Act notice about the job cuts, as required by law.

"This is ongoing, and a higher number of employees will receive WARN notices than may ultimately be impacted," the company said in a statement.

Although Northrop Grumman is based in Falls Church, Va., California is a major hub for the company. The defense contractor's 110-acre Space Park facility in Redondo Beach was built at the height of the Cold War and is the birthplace of the intercontinental ballistic missile, as well as the rocket engines that lowered the first crew onto the moon and, more recently, the building of the James Webb Space Telescope.

The company also has a major aircraft facility in Palmdale, where it is building the new B-21 stealth bomber, the center fuselage for the F-35 fighter jet, the RQ-4 Global Hawk drone and the MQ-4C Triton drone.

Northrop Grumman also has facilities in San Diego, Sunnyvale, Northridge, Woodland Hills and Ventura County.

BOEING

From Page 9

crashes in 2018 and 2019. The report, which was mandated by Congress, had been in the works before the harrowing episode in January involving the Max 9.

Boeing has come under another wave of scrutiny after that episode, which occurred shortly after an Alaska Airlines flight took off from Portland, Ore. No one was seriously injured when the panel, known as a door plug, came off the plane, but the FAA quickly grounded similar Max 9 jets. The regulator gave the green light for those planes to resume flying.

In a preliminary report released this month, the National Transportation Safety Board said that the four bolts used to secure the panel that ultimately blew off the plane had been removed at Boeing's factory in Renton, and it suggested that the bolts may not have been reinstalled.

Since the episode, the FAA has taken an aggressive posture toward Boeing, banning the company from expanding production of the 737 Max series until quality control issues are addressed. The agency also began auditing the company's production of the Max and opened an investigation into the plane maker's compliance with manufacturing requirements.

Last month, Boeing announced changes to its quality control processes, including increasing inspections at its own factory and at a key supplier, Spirit AeroSystems, which makes the 737 Max's fuselage, or body. Boeing also announced a series of leadership changes in its commercial airplanes unit.

Walker writes for The New York Times.

Legal Notices

The San Diego Union-Tribune

Metro and North San Diego | 866-411-4140

The Californian, SW Riverside | 951-251-0329

email: legals@sduniontribune.com | email: legalsnorth@sduniontribune.com | email: legalswr@sduniontribune.com

Legal Notice Legal Notice Legal Notice

NOTICE OF PETITION TO ADMINISTER ESTATE OF ALBERT THOMAS MINNIE
CASE NO. PRMC2400143

To all heirs, beneficiaries, creditors, contingent creditors, and persons who may otherwise be interested in the will or estate, or both, of: ALBERT THOMAS MINNIE

A Petition for Probate has been filed by MARGARET TURNER in the Superior Court of California, County of RIVERSIDE.

The Petition for Probate requests that MARGARET TURNER be appointed as personal representative to administer the estate of the decedent.

The Petition requests authority to administer the estate under the Independent Administration of Estates Act. (This authority will allow the personal representative to take many actions without obtaining court approval. Before taking certain very important actions, however, the personal representative will be required to give notice to interested persons unless they have waived notice or consented to the proposed action.) The independent administration authority will be granted unless an interested person files an objection to the petition and shows good cause why the court should not grant the authority.

A hearing on the petition will be held in this court on 03/21/2024 at 8:30 am in Dept. TI located at 41002 County Centre Drive, Unit 100, Temecula, CA 92591, Temecula Branch.

If you object to the granting of the petition, you should appear at the hearing and state your objections or file written objections with the court before the hearing. Your appearance may be in person or by your attorney.

If you are a creditor or a contingent creditor of the decedent, you must file your claim with the court and mail a copy to the personal representative appointed by the court within the later of either (1) four months from the date of first issuance of letters to a general personal representative, as defined in section 58(b) of the California Probate Code, or (2) 60 days from the date of mailing or personal delivery to you of a notice under section 9052 of the California Probate Code.

Other California statutes and legal authority may affect your rights as a creditor. You may want to consult with an attorney knowledgeable in California law.

You may examine the file kept by the court. If you are a person interested in the estate, you may file with the court a Request for Special Notice (form DE-154) of the filing of an inventory and appraisal of estate assets or of any petition or account as provided in Probate Code section 1250. A Request for Special Notice form is available from the court clerk.

Attorney for Petitioner: JUSTIN ISAAC, ESQ., LAWYER IN BLUE JEANS GROUP, 3990 OLD TOWN AVENUE, SUITE A102, SAN DIEGO, CA 92110, Telephone: 619-683-2545

2229, 3/1, 3/7/24
CNS-3787179#
CALIFORNIAN (TEMECULA)
SDUT-CA 11650835

Legal Notice Legal Notice

FICTITIOUS BUSINESS NAME STATEMENT
FILE NO. 2024-9004126

The following person(s) is (are) doing business as:
1.) TD CLEANING SERVICES
LOCATED AT: 229 16TH ST APT 216 SAN DIEGO CA 92101
COUNTY: San Diego
REGISTERED OWNER(S):
1.) Tanairi Diaz
229 16th st apt 216
San Diego CA 92101
THIS BUSINESS IS CONDUCTED BY an Individual
The date registrant commenced to transact business under the fictitious business name or names listed above on: 2/26/2024.
I declare that all information in this statement is true and correct. (A registrant who declares as true any material matter pursuant to Section 17913 of the Business and Professions Code that the registrant know to be false is guilty of a misdemeanor punishable by a fine not to exceed one thousand dollars ($1,000)).
/s/ Tanairi Diaz
REGISTRANT/CORPORATE/LLC NAME: TANAIRI DIAZ
TITLE: N/A
This statement was filed with the San Diego County Clerk on: February 26, 2024.
NOTICE - In accordance with subdivision (a) of Section 17920, a Fictitious Name statement generally expires at the end of five years from the date on which it was filed in the office of the county clerk, except, as provided in subdivision (b) of Section 17920, where it expires 40 days after any change in the facts set forth in the statement pursuant to Section 17913 other than a change in the residence address of a registered owner. A new Fictitious Business Name statement must be filed before the expiration. The filing of this statement does not of itself authorize the use in this state of a fictitious business name in violation of the rights of another under federal, state, or common law (see Section 14411 et seq., Business and Professions code).
Jordan Z. Marks, San Diego County Clerk.
Published: 2/29, 3/7, 3/14, 3/21/24

Legal Notice Legal Notice

Legal Notice Legal Notice Legal Notice

North County Transit District (NCTD), Owner, invites bids for Pedestrian Railroad Track Crossing At Oceanside Transit Center IFB 32606.

Sealed bids will be received electronically through PlanetBids until 2:00 PM PST/PDT on APRIL 3, 2024, at which time they will be publicly opened. The complete solicitation packet (including submission documents, important dates, sample Agreement, Statement of Work and Exhibits) is available for download via PlanetBids at: http://www.planetbids.com/portal/portal.cfm?CompanyID=20134. You must be registered at the site in order to download documents. NCTD strongly encourages and may require Disadvantaged Business Enterprise (DBE) participation. Please submit any questions on PlanetBids.
The Awarded Contractor shall possess a California contractor's license, Classification A. The value of work is estimated to be $1,518,637.00 for the base work. Bid security of no less than 10% required at time of bid. Successful bidder shall provide Payment and Performance Bonds for 100% of the contract amount. Prevailing Wage rates apply. NCTD strongly encourages and may require Disadvantaged Business Enterprise (DBE) participation for this project. For complete bid information and questions, go to PlanetBids Vendor Portal for NCTD.
SDUT ad 11649389

Legal Notice Legal Notice Legal Notice

NOTICE OF PETITION TO ADMINISTER ESTATE OF: Richard L. Williamson, a.k.a. Richard Lee Williamson
CASE NUMBER: 37-2023-00043386-PR-PW-CTL

To all heirs, beneficiaries, creditors, contingent creditors and persons who may otherwise be interested in the will or estate, or both, of Richard L. Williamson, a.k.a. Richard Lee Williamson

A PETITION FOR PROBATE has been filed by R. JON KAILEY in the Superior Court of California, County of San Diego

THE PETITION FOR PROBATE requests that R. JON KAILEY be appointed as personal representative to administer the estate of the decedent.

THE PETITION REQUESTS the decedent's will and codicils, if any, be admitted to probate. The will and any codicils are available for examination in the file kept by the court.

THE PETITION requests authority to administer the estate under the Independent Administration of Estates Act. (This authority will allow the personal representative to take many actions without obtaining court approval. Before taking certain very important actions, however, the personal representative will be required to give notice to interested persons unless they have waived notice or consented to the proposed action.) The independent administration authority will be granted unless an interested person files an objection to the petition and shows good cause why the court should not grant the authority.

A HEARING on the petition will be held in this court as follows:
Date: 03/19/2024 Time: 10:30 AM in Dept. 504 located at Superior Court of California, County of San Diego, 1100 Union Street, San Diego, CA 92101, Central Division.

IF YOU OBJECT to the granting of the petition, you should appear at the hearing and state your objections or file written objections with the court before the hearing. Your appearance may be in person or by your attorney.

IF YOU ARE A CREDITOR or a contingent creditor of the decedent, you must file your claim with the court and mail a copy to the personal representative appointed by the court within the later of either (1) four months from the date of first issuance of letters to a general personal representative, as defined in section 58(b) of the California Probate Code, or (2) 60 days from the date of mailing or personal delivery to you of a notice under section 9052 of the California Probate Code. Other California statutes and legal authority may affect your rights as a creditor. You may want to consult with an attorney knowledgeable in California law.

YOU MAY EXAMINE the file kept by the court. If you are a person interested in the estate, you may file with the court a Request for Special Notice (form DE-154) of the filing of an inventory and appraisal of estate assets or of any petition or account as provided in Probate Code section 1250. A Request for Special Notice form is available from the court clerk.

Attorney for Petitioner: NANCY K. YORK
321 Stage Coach Rd., Oceanside, CA 92057-7002
Telephone: (760) 433-0420
Pub: Feb 15, 22, & 29, 2024
[SDUT ad 11648266]

Legal Notice Legal Notice

North County Transit District (NCTD), Owner, invites proposals for RFP 32836, Asset Management Services.

Proposals will be received via PlanetBids, until 2:00 PM (PDT) on March 15, 2024. The complete solicitation packet including submittal documents, important dates, sample Agreement, Scope of Work and Exhibits is available for download via PlanetBids at: http://www.planetbids.com/portal/portal.cfm?CompanyID=20134. You must be registered at the site in order to download documents. NCTD strongly encourages and may require Disadvantaged Business Enterprise (DBE) participation. For questions, please contact Suzie Tovar by email at stovar@nctd.org.
SDUT 11649083

FICTITIOUS BUSINESS NAME STATEMENT
File No. 2024-9001945

Filed with Jordan Z. Marks Recorder/County Clerk County of San Diego:
01/26/2024
Factious Business Name(s):
a. Smart Solar and Roofing
b. Smart Roofing and Construction
c. Smart Restoration
Located at: 9430 Black Mountain Rd. #H, San Diego, CA 92126
San Diego County
Mailing Address: same
REGISTERED OWNERS Name:
Smart Solar Design Construction LLC, 9430 Black Mountain Road, Suite H, San Diego, CA 92126, CA.
This Business is conducted by:
A Limited Liability Company
The first day of business has not yet started.
I declare that all information in this statement is true and correct. (A registrant who declares as true any material matter pursuant to Section 17913 of the Business and Professional code that the registrant knows to be false is guilty of a misdemeanor punishable by a fine not to exceed one thousand dollars (1,000). Registrant Name /s/ Henry Chiang.
Managing Member
02/29/24, 03/07/24, 03/14/24, 03/21/24

FICTITIOUS BUSINESS NAME STATEMENT
File No. 2024-9001363

Filed with Jordan Z. Marks Recorder/County Clerk County of San Diego:
01/19/2024
Factious Business Name(s):
a. NAREMBURN
Located at: 3786 Quarter Mile Dr, San Diego, CA 92130
San Diego County
Mailing Address: 3786 Quarter Mile Dr, San Diego, CA 92130
San Diego County
REGISTERED OWNERS Name:
a. DANIEL SLACK-SMITH INC, KILN SOLANA BEACH, 125 S HIGHWAY 101, SOLANA BEACH, CA 92075
This Business is conducted by:
A Corporation
The first day of business was not yet started.
I declare that all information in this statement is true and correct. (A registrant who declares as true any material matter pursuant to Section 17913 of the Business and Professional code that the registrant knows to be false is guilty of a misdemeanor punishable by a fine not to exceed one thousand dollars (1,000). Daniel Slack-Smith
02/08/24, 02/15/24, 02/22/24, 02/29/24

PUBLIC NOTICE

INDUSTRIAL USERS IN SIGNIFICANT NON-COMPLIANCE WITH SEWER DISCHARGE REQUIREMENTS

For the period from January 1, 2023 through December 31, 2023, the following INDUSTRIAL USERS, located in the Encina Wastewater Authority service area, were found to be in Significant Non-Compliance for exceeding applicable discharge limits or failing to meet reporting requirements, based on statistical criteria established by EPA and set forth at 40 CFR Part 403.8(f)(2)(viii). For further information please contact Alicia Appel, Encina Wastewater Authority Director of Environmental Compliance at (760) 438-3941, extension 3600.

Industry	Address	Pollutant/Other
Bachem Americas, Inc.	1271 Avenida Chelsea, Vista, CA, 92081	Chloroform
Captek Softgel International, Inc.	2710 Progress Street, Vista, CA 92081	Biochemical Oxygen Demand and Missed Interim Compliance Schedule Date
HRE Performance Wheels	2611 Commerce Way, #D, Vista, CA, 92081	Copper
Primarch Manufacturing, Inc.	1211 Liberty Way Vista, CA 92083	Acetone, Oil and Grease

SDUT 11651595