

May 2, 2018

City of Lompoc - Water Treatment Plant
 Attn: Mary Erland
 100 Civic Center Plaza
 Lompoc, CA 93436

Lab ID : CC 1881134
 Customer : 8-45

Laboratory Report

Introduction: This report package contains total of 10 pages divided into 3 sections:

Case Narrative (2 pages) : An overview of the work performed at FGL.
 Sample Results (7 pages) : Results for each sample submitted.
 Quality Control (1 page) : Supporting Quality Control (QC) results.

Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab ID #	Matrix
LFE - A Bldg Exterior Ftn. Low	04/17/2018	04/18/2018	CC 1881134-001	DW
LFE - B Bldg Exterior Ftn. Low	04/17/2018	04/18/2018	CC 1881134-002	DW
LFE - C Bldg Exterior Ftn. Low	04/17/2018	04/18/2018	CC 1881134-003	DW
LFE - CN Kitchen Sink	04/17/2018	04/18/2018	CC 1881134-004	DW
LFE - E2 Interior Fountain	04/17/2018	04/18/2018	CC 1881134-005	DW
LFE - K1 Interior Fountain	04/17/2018	04/18/2018	CC 1881134-006	DW
DISTRIBUTION SOURCE (SS18)	04/17/2018	04/18/2018	CC 1881134-007	DW

Sampling and Receipt Information: All samples were received in acceptable condition and within temperature requirements, unless noted on the Condition Upon Receipt (CUR) form. All samples arrived on ice. All samples were prepared and analyzed within the method specified hold time. All samples were checked for pH if acid or base preservation is required (except for VOAs). For details of sample receipt information, please see the attached Chain of Custody and Condition Upon Receipt Form.

Quality Control: All samples were prepared and analyzed according to the following tables:

Inorganic - Metals QC

200.8	04/20/2018:205569 All analysis quality controls are within established criteria.
	04/20/2018:204517 All preparation quality controls are within established criteria, except: The following note applies to Lead: 435 Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery. The following note applies to Lead: 435 Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.

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Certification:: I certify that this data package is in compliance with ELAP standards, both technically and for completeness, except for any conditions listed above. Release of the data contained in this data package is authorized by the Laboratory Director or his designee, as verified by the following electronic signature.


KD:DMB

Approved By **Kelly A. Dunnahoo, B.S.**



Digitally signed by Kelly A. Dunnahoo, B.S.
Title: Laboratory Director
Date: 2018-05-02

INORGANIC CHEMICALS ANALYSIS

Date of Report	: May 02, 2018	Sample ID	: CC 1881134-001
Laboratory Name	: FGL Environmental	Approved By	: Kelly A. Dunnahoo, B.S.  Digitally signed by Kelly A. Dunnahoo, B.S. Title: Laboratory Director Date: 2018-05-02
Sampled On	: 04/17/2018-06:19		
Received On	: 04/18/2018-10:21	Sampler	: Mary Erland
Completed On	: 04/20/2018	Employed By	: City of Lompoc Water

System Name : LOMPOC-CITY WATER UTILITY DIV Number : 4210006-AAE- **EDT**
A

Name Or Number of Sample Source : Leonora Fillmore Ele-A bldg exterior fou

User ID	: TAP	Station Number	: 4210006-AAE-A
Date/Time of Sample	: 1804170619 YYMMDDTTTT	Laboratory Code	: 5 8 6 7
Submitted By	: FGL Environmental	Phone #	: (805) 392-2000

REGULATED INORGANIC

MCL	UNITS	CHEMICALS	ENTRY	RESULT	DLR
15	ug/L	Lead	01051	ND	5

MCL - Maximum Contaminant Level,

DLR -Detection Limit for Reporting Purpose,

ND - Not Detected at or above DLR



INORGANIC CHEMICALS ANALYSIS

Date of Report : May 02, 2018 Sample ID : CC 1881134-002

Laboratory Name : **FGL Environmental** Approved By **Kelly A. Dunnahoo, B.S.** Digitally signed by Kelly A. Dunnahoo, B.S. Title: Laboratory Director Date: 2018-05-02

Sampled On : 04/17/2018-06:31

Received On : 04/18/2018-10:21 Sampler : Mary Erland

Completed On : 04/20/2018 Employed By : City of Lompoc Water

System Name : LOMPOC-CITY WATER UTILITY DIV Number : 4210006-AAE- **EDT**
B

Name Or Number of Sample Source : Leonora Fillmore Ele-B bldg exterior fou


User ID	: TAP	Station Number	: 4210006-AAE-B
Date/Time of Sample	: 1804170631 YYMMDDTTT	Laboratory Code	: 5 8 6 7
Submitted By	: FGL Environmental	Phone #	: (805) 392-2000

REGULATED INORGANIC

MCL	UNITS	CHEMICALS	ENTRY	RESULT	DLR
15	ug/L	Lead	01051	ND	5

MCL - Maximum Contaminant Level, DLR -Detection Limit for Reporting Purpose, ND - Not Detected at or above DLR

INORGANIC CHEMICALS ANALYSIS

Date of Report	: May 02, 2018	Sample ID	: CC 1881134-003
Laboratory Name	: FGL Environmental	Approved By	: Kelly A. Dunnahoo, B.S.  Digitally signed by Kelly A. Dunnahoo, B.S. Title: Laboratory Director Date: 2018-05-02
Sampled On	: 04/17/2018-06:23		
Received On	: 04/18/2018-10:21	Sampler	: Mary Erland
Completed On	: 04/20/2018	Employed By	: City of Lompoc Water

System Name : LOMPOC-CITY WATER UTILITY DIV Number : 4210006-AAE- **EDT**
C

Name Or Number of Sample Source : Leonora Fillmore Ele-C bldg exterior fou


User ID	: TAP	Station Number	: 4210006-AAE-C
Date/Time of Sample	: 1804170623 YYMMDDTTTT	Laboratory Code	: 5 8 6 7
Submitted By	: FGL Environmental	Phone #	: (805) 392-2000

REGULATED INORGANIC

MCL	UNITS	CHEMICALS	ENTRY	RESULT	DLR
15	ug/L	Lead	01051	ND	5

MCL - Maximum Contaminant Level, DLR -Detection Limit for Reporting Purpose, ND - Not Detected at or above DLR

INORGANIC CHEMICALS ANALYSIS

Date of Report	: May 02, 2018	Sample ID	: CC 1881134-004
Laboratory Name	: FGL Environmental	Approved By	: Kelly A. Dunnahoo, B.S.  Digitally signed by Kelly A. Dunnahoo, B.S. Title: Laboratory Director Date: 2018-05-02
Sampled On	: 04/17/2018-06:21		
Received On	: 04/18/2018-10:21	Sampler	: Mary Erland
Completed On	: 04/20/2018	Employed By	: City of Lompoc Water

System Name : LOMPOC-CITY WATER UTILITY DIV Number : 4210006-AAE- **EDT**
D

Name Or Number of Sample Source : Leonora Fillmore Ele-CN kitchen sink


User ID	: TAP	Station Number	: 4210006-AAE-D
Date/Time of Sample	: 1804170621 YYMMDDTTTT	Laboratory Code	: 5 8 6 7
Submitted By	: FGL Environmental	Phone #	: (805) 392-2000

REGULATED INORGANIC

MCL	UNITS	CHEMICALS	ENTRY	RESULT	DLR
15	ug/L	Lead	01051	ND	5

MCL - Maximum Contaminant Level, DLR -Detection Limit for Reporting Purpose, ND - Not Detected at or above DLR

INORGANIC CHEMICALS ANALYSIS

Date of Report	: May 02, 2018	Sample ID	: CC 1881134-005
Laboratory Name	: FGL Environmental	Approved By	: Kelly A. Dunnahoo, B.S.  Digitally signed by Kelly A. Dunnahoo, B.S. Title: Laboratory Director Date: 2018-05-02
Sampled On	: 04/17/2018-06:28		
Received On	: 04/18/2018-10:21	Sampler	: Mary Erland
Completed On	: 04/20/2018	Employed By	: City of Lompoc Water

System Name : LOMPOC-CITY WATER UTILITY DIV Number : 4210006-AAE- **EDT**
E

Name Or Number of Sample Source : Leonora Fillmore Ele-E2 interior fountain

User ID	: TAP	Station Number	: 4210006-AAE-E
Date/Time of Sample	: 1804170628 YYMMDDTTTT	Laboratory Code	: 5 8 6 7
Submitted By	: FGL Environmental	Phone #	: (805) 392-2000

REGULATED INORGANIC

MCL	UNITS	CHEMICALS	ENTRY	RESULT	DLR
15	ug/L	Lead	01051	ND	5

MCL - Maximum Contaminant Level, DLR -Detection Limit for Reporting Purpose, ND - Not Detected at or above DLR

INORGANIC CHEMICALS ANALYSIS

Date of Report	: May 02, 2018	Sample ID	: CC 1881134-006
Laboratory Name	: FGL Environmental	Approved By	: Kelly A. Dunnahoo, B.S. <small>Digitally signed by Kelly A. Dunnahoo, B.S. Title: Laboratory Director Date: 2018-05-02</small>
Sampled On	: 04/17/2018-06:25		
Received On	: 04/18/2018-10:21	Sampler	: Mary Erland
Completed On	: 04/20/2018	Employed By	: City of Lompoc Water

System Name : LOMPOC-CITY WATER UTILITY DIV Number : 4210006-AAE- **EDT**
F

Name Or Number of Sample Source : Leonora Fillmore Ele-K1 interior fountain


User ID	: TAP	Station Number	: 4210006-AAE-F
Date/Time of Sample	: 1804170625 YYMMDDTTTT	Laboratory Code	: 5 8 6 7
Submitted By	: FGL Environmental	Phone #	: (805) 392-2000

REGULATED INORGANIC

MCL	UNITS	CHEMICALS	ENTRY	RESULT	DLR
15	ug/L	Lead	01051	ND	5

MCL - Maximum Contaminant Level, DLR -Detection Limit for Reporting Purpose, ND - Not Detected at or above DLR

INORGANIC CHEMICALS ANALYSIS

Date of Report	: May 02, 2018	Sample ID	: CC 1881134-007
Laboratory Name	: FGL Environmental	Approved By	: Kelly A. Dunnahoo, B.S.  Digitally signed by Kelly A. Dunnahoo, B.S. Title: Laboratory Director Date: 2018-05-02
Sampled On	: 04/17/2018-07:06		
Received On	: 04/18/2018-10:21	Sampler	: Mary Erland
Completed On	: 04/20/2018	Employed By	: City of Lompoc Water

System Name : LOMPOC-CITY WATER UTILITY DIV Number : 4210006-AAE- **EDT**
Z

Name Or Number of Sample Source : Leonora Fillmore Ele-DISTRIBUTION SOURCE

User ID	: TAP	Station Number	: 4210006-AAE-Z
Date/Time of Sample	: 1804170706 YYMMDDTTTT	Laboratory Code	: 5 8 6 7
Submitted By	: FGL Environmental	Phone #	: (805) 392-2000

REGULATED INORGANIC

MCL	UNITS	CHEMICALS	ENTRY	RESULT	DLR
15	ug/L	Lead	01051	ND	5

MCL - Maximum Contaminant Level, DLR -Detection Limit for Reporting Purpose, ND - Not Detected at or above DLR

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Quality Control - Inorganic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Metals								
Lead	200.8	(CC 1881134-001)	MS	ug/L	5.000	132 %	75-125	435
			MSD	ug/L	5.000	104 %	75-125	
MSRPD			ug/L	5.000	22.7%	≤20		
	200.8	04/20/18:205569AC	CCV	ppb	120.0	102 %	90-110	
CCB			ppb		-0.085	0.5		
CCV			ppb	120.0	103 %	90-110		
CCB			ppb		-0.105	0.5		
CCV			ppb	120.0	103 %	90-110		
CCB			ppb		-0.105	0.5		
Definition								
CCV	: Continuing Calibration Verification - Analyzed to verify the instrument calibration is within criteria.							
CCB	: Continuing Calibration Blank - Analyzed to verify the instrument baseline is within criteria.							
MS	: Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.							
MSD	: Matrix Spike Duplicate of MS/MSD pair - A random sample duplicate is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.							
MSRPD	: MS/MSD Relative Percent Difference (RPD) - The MS relative percent difference is an indication of precision for the preparation and analysis.							
DQO	: Data Quality Objective - This is the criteria against which the quality control data is compared.							
Explanation								
435	: Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.							