

May 8, 2018

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

Lab ID : CC 1881003  
 Customer : 8-45

### Laboratory Report

**Introduction:** This report package contains total of 9 pages divided into 3 sections:

Case Narrative (2 pages) : An overview of the work performed at FGL.  
 Sample Results (6 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
AHES - CN Kitchen Sink	04/17/2018	04/19/2018	CC 1881003-001	DW
AHES - Cafeteria Ftn./Filler	04/17/2018	04/19/2018	CC 1881003-002	DW
AHES - RM 10 Exterior Ftn. Low	04/17/2018	04/19/2018	CC 1881003-003	DW
AHES - RM 16 Exterior Ftn. Low	04/17/2018	04/19/2018	CC 1881003-004	DW
AHES - RM 28 Interior Ftn.	04/17/2018	04/19/2018	CC 1881003-005	DW
DISTRIBUTION SOURCE (SS4)	04/17/2018	04/19/2018	CC 1881003-006	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

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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: 2018-05-08

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## INORGANIC CHEMICALS ANALYSIS

Date of Report : May 08, 2018	Sample ID : CC 1881003-001
Laboratory Name : <b>FGL Environmental</b>	Approved By <b>Kelly A. Dunnahoo, B.S.</b>  Digitally signed by Kelly A. Dunnahoo, B.S. Title: Laboratory Director Date: 2018-05-08
Sampled On : 04/17/2018-06:41	
Received On : 04/19/2018-14:00	Sampler : Mary Erland
Completed On : 04/20/2018	Employed By : City of Lompoc Water

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

Name Or Number of Sample Source : Arthur Hapgood Eleme-CN Kitchen Sink

User ID : TAP	Station Number : 4210006-AAC-A
Date/Time of Sample : 1804170641 YYMMDDTTTT	Laboratory Code : 5 8 6 7
Submitted By : <b>FGL Environmental</b>	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 08, 2018	Sample ID : CC 1881003-002
Laboratory Name : <b>FGL Environmental</b>	Approved By <b>Kelly A. Dunnahoo, B.S.</b>  Digitally signed by Kelly A. Dunnahoo, B.S. Title: Laboratory Director Date: 2018-05-08
Sampled On : 04/17/2018-06:42	
Received On : 04/19/2018-14:00	Sampler : Mary Erland
Completed On : 04/20/2018	Employed By : City of Lompoc Water

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

Name Or Number of Sample Source : Arthur Hapgood Eleme-Cafeteria fountain/


User ID : TAP	Station Number : 4210006-AAC-B
Date/Time of Sample : 1804170642 YYMMDDTTT	Laboratory Code : 5 8 6 7
Submitted By : <b>FGL Environmental</b>	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 08, 2018	Sample ID : CC 1881003-003
Laboratory Name : <b>FGL Environmental</b>	Approved By <b>Kelly A. Dunnahoo, B.S.</b>  Digitally signed by Kelly A. Dunnahoo, B.S. Title: Laboratory Director Date: 2018-05-08
Sampled On : 04/17/2018-06:49	
Received On : 04/19/2018-14:00	Sampler : Mary Erland
Completed On : 04/20/2018	Employed By : City of Lompoc Water

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

Name Or Number of Sample Source : Arthur Hapgood Eleme-RM 10 exterior foun


User ID : TAP	Station Number : 4210006-AAC-C
Date/Time of Sample : 1804170649 YYMMDDTTTT	Laboratory Code : 5 8 6 7
Submitted By : <b>FGL Environmental</b>	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 08, 2018	Sample ID	: CC 1881003-004
Laboratory Name	: <b>FGL Environmental</b>	Approved By	: <b>Kelly A. Dunnahoo, B.S.</b>  Digitally signed by Kelly A. Dunnahoo, B.S. Title: Laboratory Director Date: 2018-05-08
Sampled On	: 04/17/2018-06:51		
Received On	: 04/19/2018-14:00	Sampler	: Mary Erland
Completed On	: 04/20/2018	Employed By	: City of Lompoc Water

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

Name Or Number of Sample Source : Arthur Hapgood Eleme-RM 16 exterior foun


User ID	: TAP	Station Number	: 4210006-AAC-D
Date/Time of Sample	: 1804170651 YYMMDDTTTT	Laboratory Code	: 5 8 6 7
Submitted By	: <b>FGL Environmental</b>	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 08, 2018	Sample ID	: CC 1881003-005
Laboratory Name	: <b>FGL Environmental</b>	Approved By	: <b>Kelly A. Dunnahoo, B.S.</b>  Digitally signed by Kelly A. Dunnahoo, B.S. Title: Laboratory Director Date: 2018-05-08
Sampled On	: 04/17/2018-06:45		
Received On	: 04/19/2018-14:00	Sampler	: Mary Erland
Completed On	: 04/20/2018	Employed By	: City of Lompoc Water

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

Name Or Number of Sample Source : Arthur Hapgood Eleme-RM 28 interior foun

User ID	: TAP	Station Number	: 4210006-AAC-E
Date/Time of Sample	: 1804170645 YYMMDDTTTT	Laboratory Code	: 5 8 6 7
Submitted By	: <b>FGL Environmental</b>	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
<b>Metals</b> Lead	200.8	(CC 1881135-004)	MS	ug/L	5.000	110 %	75-125	
			MSD	ug/L	5.000	116 %	75-125	
			MSRPD	ug/L	5.000	4.3%	≤20	
		(CC 1881003-002)	MS	ug/L	5.000	102 %	75-125	
			MSD	ug/L	5.000	120 %	75-125	
			MSRPD	ug/L	5.000	17.0%	≤20	
	200.8	04/20/18:205569AC	CCV	ppb	120.0	103 %	90-110	
			CCB	ppb		-0.105	0.5	
			CCV	ppb	120.0	101 %	90-110	
			CCB	ppb		-0.111	0.5	
			CCV	ppb	120.0	103 %	90-110	
			CCB	ppb		-0.115	0.5	
<b>Definition</b>								
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.								