



WECK LABORATORIES, INC.

Certificate of Analysis

FINAL REPORT

Work Orders: 8L07022

Project: CIMP000000969

Attn: Fred Gonzalez

Client: Los Angeles County Dept. of Public Works
900 South Freemont Avenue
Alhambra, CA 91803

Report Date: 1/21/2019

Received Date: 12/7/2018

Turnaround Time: Normal

Phones: (626) 458-5948

Fax: (626) 300-3365

P.O. #:

Billing Code:

ELAP-CA #1132 • EPA-UCMR #CA00211 • Guam-EPA #17-008R • HW-DOH # • ISO 17025 #L2457.01 • LACSD #10143 •
NELAP-CA #04229CA • NELAP-OR #4047 • NJ-DEP #CA015 • NV-DEP #NAC 445A • SCAQMD #93LA1006

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.

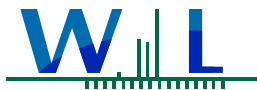
Dear Fred Gonzalez,

Enclosed are the results of analyses for samples received 12/07/18 with the Chain-of-Custody document. The samples were received in good condition, at 4.0 °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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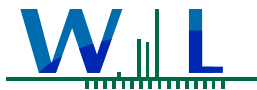
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Reported:
01/21/2019 14:27



Sample Summary

Sample Name	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
CIMP000000969, Alias: CUA-PVD-01	J.Luis Escajeda	8L07022-01	Water	12/06/18 09:35	



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Sample Results

Sample: CIMP000000969, Alias: CUA-PVD-01
8L07022-01 (Water) Sampled: 12/06/18 9:35 by J.Luis Escajeda

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
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Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods

Method: SM 2540D **Batch ID:** W8L0833 **Instr:** OVEN11 **Prepared:** 12/12/18 13:36 **Analyst:** sar
Total Suspended Solids **70** 5 mg/l 1 12/13/18 13:45

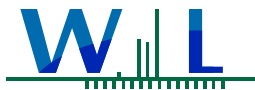
Metals by EPA 200 Series Methods

Method: EPA 200.7 **Batch ID:** W8L0979 **Instr:** ICP03 **Prepared:** 12/14/18 09:48 **Analyst:** rrl
Calcium, Total **4.13** 0.0160 0.100 mg/l 1 12/17/18 15:06
Magnesium, Total **1.20** 0.0120 0.100 mg/l 1 12/17/18 15:06

Method: EPA 200.8 **Batch ID:** W8L0980 **Instr:** ICPMS04 **Prepared:** 12/14/18 09:50 **Analyst:** rrl
Copper, Dissolved **4.2** 0.13 0.50 ug/l 1 01/10/19 15:53
Copper, Total **14** 0.13 0.50 ug/l 1 01/10/19 15:57
Lead, Dissolved **0.23** 0.031 0.20 ug/l 1 01/10/19 15:53
Lead, Total **6.8** 0.031 0.20 ug/l 1 01/10/19 15:57

Method: EPA 200.8 **Batch ID:** W9A0631 **Instr:** ICPMS04 **Prepared:** 01/11/19 12:10 **Analyst:** rrl
Zinc, Dissolved **21** 0.94 5.0 ug/l 1 01/15/19 20:03
Zinc, Total **70** 0.94 5.0 ug/l 1 01/15/19 20:07

Method: SM 2340B **Batch ID:** [CALC] **Instr:** [CALC] **Prepared:** 12/14/18 09:48 **Analyst:** rrl
Hardness as CaCO3, Total **15.2** 0.662 mg/l 1 12/17/18 15:06



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Quality Control Results

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

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Qualifier
Batch: W8L0833 - SM 2540D											
Blank (W8L0833-BLK1)						Prepared: 12/12/18 Analyzed: 12/13/18					
Total Suspended Solids	ND		5	mg/l							
LCS (W8L0833-BS1)						Prepared: 12/12/18 Analyzed: 12/13/18					
Total Suspended Solids	56.0		5	mg/l	56.4		99	90-110			
Duplicate (W8L0833-DUP1)						Prepared: 12/12/18 Analyzed: 12/13/18					
Total Suspended Solids	14.0	Source: 8L07100-01	5	mg/l		12.0			15	20	
Duplicate (W8L0833-DUP2)						Prepared: 12/12/18 Analyzed: 12/13/18					
Total Suspended Solids	29.0	Source: 8L07147-02	5	mg/l		28.0			4	20	



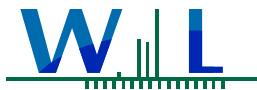
Quality Control Results

Metals by EPA 200 Series Methods

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Qualifier
Batch: W8L0979 - EPA 200.7											
Blank (W8L0979-BLK1)						Prepared: 12/14/18 Analyzed: 12/17/18					
Calcium, Total	ND	0.0160	0.100	mg/l							
Magnesium, Total	ND	0.0120	0.100	mg/l							
LCS (W8L0979-BS1)						Prepared: 12/14/18 Analyzed: 12/17/18					
Calcium, Total	49.6	0.0160	0.100	mg/l	50.0		99	85-115			
Magnesium, Total	48.1	0.0120	0.100	mg/l	50.0		96	85-115			
Matrix Spike (W8L0979-MS1)						Prepared: 12/14/18 Analyzed: 12/17/18					
Calcium, Total	72.7	0.0160	0.100	mg/l	50.0	24.6	96	70-130			
Magnesium, Total	56.4	0.0120	0.100	mg/l	50.0	8.06	97	70-130			
Matrix Spike Dup (W8L0979-MSD1)						Prepared: 12/14/18 Analyzed: 12/17/18					
Calcium, Total	72.9	0.0160	0.100	mg/l	50.0	24.6	97	70-130	0.3	30	
Magnesium, Total	56.6	0.0120	0.100	mg/l	50.0	8.06	97	70-130	0.3	30	
Batch: W8L0980 - EPA 200.8											
Blank (W8L0980-BLK1)						Prepared: 12/14/18 Analyzed: 01/10/19					
Copper, Dissolved	ND	0.13	0.50	ug/l							
Copper, Total	ND	0.13	0.50	ug/l							
Lead, Dissolved	0.0326	0.031	0.20	ug/l							B-07, J
Lead, Total	ND	0.031	0.20	ug/l							
LCS (W8L0980-BS1)						Prepared: 12/14/18 Analyzed: 01/10/19					
Copper, Dissolved	53.3	0.13	0.50	ug/l	49.9		107	85-115			
Copper, Total	53.3	0.13	0.50	ug/l	49.9		107	85-115			
Lead, Dissolved	52.9	0.031	0.20	ug/l	49.9		106	85-115			
Lead, Total	52.9	0.031	0.20	ug/l	49.9		106	85-115			
Matrix Spike (W8L0980-MS1)						Prepared: 12/14/18 Analyzed: 01/10/19					
Copper, Total	118	0.13	0.50	ug/l	49.9	67.9	101	70-130			
Lead, Total	104	0.031	0.20	ug/l	49.9	50.8	106	70-130			

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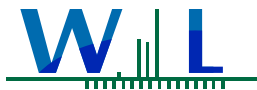


Quality Control Results

(Continued)

Metals by EPA 200 Series Methods (Continued)

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
Batch: W8L0980 - EPA 200.8 (Continued)											
Matrix Spike (W8L0980-MS1)	Source: 8L07016-03				Prepared: 12/14/18 Analyzed: 01/10/19						
Matrix Spike (W8L0980-MS2)	Source: 8L07017-01				Prepared: 12/14/18 Analyzed: 01/10/19						
Copper, Total	52.8	0.13	0.50	ug/l	49.9	ND	106	70-130			
Lead, Total	51.3	0.031	0.20	ug/l	49.9	ND	103	70-130			
Matrix Spike Dup (W8L0980-MSD1)	Source: 8L07016-03				Prepared: 12/14/18 Analyzed: 01/10/19						
Copper, Total	116	0.13	0.50	ug/l	49.9	67.9	97	70-130	2	30	
Lead, Total	101	0.031	0.20	ug/l	49.9	50.8	102	70-130	2	30	
Matrix Spike Dup (W8L0980-MSD2)	Source: 8L07017-01				Prepared: 12/14/18 Analyzed: 01/10/19						
Copper, Total	53.5	0.13	0.50	ug/l	49.9	ND	107	70-130	1	30	
Lead, Total	52.5	0.031	0.20	ug/l	49.9	ND	105	70-130	2	30	
Batch: W9A0631 - EPA 200.8											
Blank (W9A0631-BLK1)					Prepared: 01/11/19 Analyzed: 01/15/19						
Zinc, Dissolved	ND	0.94	5.0	ug/l							
Zinc, Total	ND	0.94	5.0	ug/l							
Blank (W9A0631-BLK2)					Prepared: 01/11/19 Analyzed: 01/16/19						
Zinc, Total	ND	0.94	5.0	ug/l							
LCS (W9A0631-BS1)					Prepared: 01/11/19 Analyzed: 01/15/19						
Zinc, Dissolved	51.2	0.94	5.0	ug/l	50.0		102	85-115			
Zinc, Total	51.2	0.94	5.0	ug/l	50.0		102	85-115			
LCS (W9A0631-BS2)					Prepared: 01/11/19 Analyzed: 01/16/19						
Zinc, Total	50.8	0.94	5.0	ug/l	50.0		102	85-115			
Matrix Spike (W9A0631-MS1)	Source: 8L07017-01				Prepared: 01/11/19 Analyzed: 01/15/19						
Zinc, Total	51.4	0.94	5.0	ug/l	50.0	ND	103	70-130			
Matrix Spike (W9A0631-MS2)	Source: 8L07027-02				Prepared: 01/11/19 Analyzed: 01/15/19						
Zinc, Total	122	0.94	5.0	ug/l	50.0	75.7	93	70-130			
Matrix Spike (W9A0631-MS3)	Source: 8L07017-01				Prepared: 01/11/19 Analyzed: 01/16/19						
Zinc, Total	49.7	0.94	5.0	ug/l	50.0	ND	100	70-130			
Matrix Spike (W9A0631-MS4)	Source: 8L07027-02				Prepared: 01/11/19 Analyzed: 01/16/19						
Zinc, Total	125	9.4	50	ug/l	50.0	75.7	98	70-130			
Matrix Spike Dup (W9A0631-MSD1)	Source: 8L07017-01				Prepared: 01/11/19 Analyzed: 01/15/19						
Zinc, Total	51.1	0.94	5.0	ug/l	50.0	ND	102	70-130	0.7	30	
Matrix Spike Dup (W9A0631-MSD2)	Source: 8L07027-02				Prepared: 01/11/19 Analyzed: 01/15/19						
Zinc, Total	121	0.94	5.0	ug/l	50.0	75.7	92	70-130	0.6	30	
Matrix Spike Dup (W9A0631-MSD3)	Source: 8L07017-01				Prepared: 01/11/19 Analyzed: 01/16/19						
Zinc, Total	51.0	0.94	5.0	ug/l	50.0	ND	102	70-130	2	30	
Matrix Spike Dup (W9A0631-MSD4)	Source: 8L07027-02				Prepared: 01/11/19 Analyzed: 01/16/19						
Zinc, Total	118	9.4	50	ug/l	50.0	75.7	84	70-130	6	30	



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Notes and Definitions

Item	Definition
B-07	This analyte was found in the method blank at levels above the MDL but below the reporting limit.
J	Estimated conc. detected <MRL and >MDL.
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.
Dil	Dilution
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
% Rec	Percent Recovery
Source	Sample that was matrix spiked or duplicated.
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) and Detection Limit for Reporting (DLR)
MDA	Minimum Detectable Activity
NR	Not Reportable
TIC	Tentatively Identified Compound (TIC) using mass spectrometry. The reported concentration is relative concentration based on the nearest internal standard. If the library search produces no matches at, or above 85%, the compound is reported as unknown.

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

An Absence of Total Coliform meets the drinking water standards as established by the California State Water Resources Control Board (SWRCB)

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 MIS 002.