

CITY OF LOMITA



Cypress Water Production Facility Monthly Status Report

NOVEMBER 2015

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CITY COUNCIL

HENRY SANCHEZ JR.
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MICHAEL G. SAVIDAN
BEN TRAINA
MARK WARONEK



CITY OF LOMITA

ADMINISTRATION

STEPHEN BURRELL
INTERIM CITY MANAGER

December 10, 2015

Mr. Paul Williams, P.E.
District Engineer – Hollywood District
State Water Resources Control Board – Division of Drinking Water
500 North Central Avenue, Suite 500
Glendale, CA 91203

Subject: System No. 1910073 - Monthly Report for the Cypress Water Production Facility (CWPF) for the period of November 1 through November 30, 2015.

Dear Mr. Williams,

In accordance with the Department of Public Health temporary approval letter dated March 15, 2013 and Permit Amendment No. 1910073, I am submitting the following report for the Cypress Water Production Facility operations for the month of November 2015.

If you should have any questions or concerns, please contact me at 310-325-7110 x124.

Sincerely,

A handwritten signature in black ink, appearing to read "Mark A. McAvoy".

Mark A. McAvoy, P.E.
Public Works Director/City Engineer

A. BACKGROUND

On March 15, 2013, the City of Lomita received conditional approval from the Department of Public Health (DPH) to distribute blended water from the Cypress Water Production Facility (CWPF) Well No. 5 to the City's customers.

The CWPF is an iron-manganese greensand filtration treatment system designed to remove primarily iron, manganese, and color. The CWPF was recently modified to enable aeration and blending with Metropolitan Water District (MWD) imported water to address the aesthetic secondary issues of Total Dissolved Solids (TDS), Hardness (as Calcium Carbonate), and Taste/Odor.

The CWPF came online on April 1, 2013. The first week of operations from April 1 to April 5, 2013 was utilized for conducting routine startup activities. The distribution of blended water to the City's residents began on April 5, 2013.

B. WELL PRODUCTION AND OPERATIONS

For the month of November 2015, the CWPF operated on a fill and draw cycle providing blended water with the reservoir level fluctuating with system demand. The Cypress Reservoir operated as follows: filled for 14 days, drew for 12 days and was isolated for 4 days.

The total production from Well No. 5 for the month was approximately 51.97 ac-ft (16,932,917 gallons) with a daily production of approximately 3.71 ac-ft. The total combined production from both MWD import water and Well No. 5 was approximately 97.93 ac-ft (31,908,908 gallons) for the month with a combined daily production of approximately 7.00 ac-ft.

The daily average flow from Well No. 5 was 775 gpm. The average flow from the Well was determined by taking an average of the daily reads provided on the Daily Monitoring logs used onsite. The blend ratio for this month was on average 53% Well water and 47% MWD water.

C. OPERATIONAL INTERRUPTIONS

From November 1 to November 3, 2015, free chlorinated water was produced. The Cypress Water Production Facility was switched back to supplying chloraminated water on November 4, 2015. The Reservoir was also isolated on November 14, 2015 and November 15, 2015 due to maintenance to the ammonia injection system. During this timeframe MWD was used to supply Zone I. The Reservoir was opened back to Zone I on November 16, 2015.

D. SAMPLE LOCATIONS

Compliance monitoring is performed at the following sample locations: SP1, SP2, SP3, SP5, and SP6. The SP1 sample location is the raw well water sample location. The SP2 sample location is on the effluent side of the greensand filter (before ammonia injection or full chloramination). The SP3 sample location is downstream of the greensand filter after full chloramination and the static mixer before entering the reservoir. The SP5 sample location is the reservoir effluent sample location before entering the distribution system. The SP6 sample location is the MWD source sample location before blending occurs.

E. WATER QUALITY MONITORING

All water quality monitoring analyses were performed by laboratories certified by the Department of Health's Environmental Laboratory Accreditation Branch (ELAB). The CWPF has been continuously monitored, maintained and inspected, per the CWPF Operations Monitoring and Maintenance Plan. A brief discussion of the laboratory and/or monitoring results is provided below. Refer to Appendix A for laboratory results.

E1. IRON, MANGANESE AND COLOR

See Table 1 below for a summary of the results for the compliance monitoring at the three sample locations SP1 through SP3. Color and Iron in the raw water (SP1) for the month were below the MCL. Manganese concentrations in the raw water (SP1) were above the MCL. Iron and Manganese levels entering the reservoir (SP3) were non-detect, indicating the greensand filtration system remains highly effective. Other additional bacteriological laboratory samples collected included Total Coliform and Heterotrophic Plate Count (HPC) levels on the effluent side of the greensand filter (SP2) showing absent for both.

E2. FREE AND TOTAL CHLORINE RESIDUALS

Daily free chlorine residuals were monitored at SP2, SP3 and SP4. Daily total chlorine residuals were monitored at SP3 and SP5. Free chlorine and total chlorine residuals, at all respective sample points, were monitored using a combination of continuous chlorine analyzers and SCADA. See Table 2 below for a weekly summary of results.

E3. TOTAL DISSOLVED SOLIDS (TDS), ODOR, HARDNESS AND METHANE

See Table 3 below for a summary of the results for the monitoring of Total Dissolved Solids (TDS), Odor (as measured by the Threshold Odor No. - T.O.N.), Total Hardness as Calcium Carbonate, and Methane levels in water at three sample locations SP1, SP5 and SP6.

E3-1 TOTAL DISSOLVED SOLIDS (TDS)

The sampling results indicate the TDS levels of the effluent blended water to be on average 703 mg/L. The TDS level of the effluent water meets the City's Water Quality Objective/Goal of 500 to 750 mg/L. The sampling results indicate the TDS levels in the raw water and MWD water source to be 730 mg/L and 680 mg/L, respectively.

E3-2 HARDNESS

The sampling results for the month of November indicate the hardness levels of the blended water to be 290 mg/L. Although, this hardness level is in the upper range of the City's Water Quality Objective/Goal of 180 to 250 mg/L; staff continues to monitor hardness levels at the CWPF effluent (SP5) and within the

water distribution system. The City has maintained a consistent blend ratio to ensure acceptable hardness levels are met.

Staff continues to use an orthophosphate/polyphosphate additive to sequester calcium hardness. Orthophosphate/Polyphosphate is a food grade National Sanitation Foundation (NSF 60) approved additive which decreases iron tuberculation, diminishes calcium scale deposits, minimizes corrosion, reduces discoloration, reduces staining and mineral build-up resulting in fewer customer complaints.

E3-3 DISSOLVED METHANE (IN WATER)

The methane levels in the CWPF effluent after aeration treatment remain negligible averaging 0.76 mg/L.

E3-4 METHANE (IN AIR)

The methane levels in the reservoir headspace are monitored daily by staff using a handheld device. These readings have consistently read non-detect to low concentrations for methane in air. Available methane hand held monitoring instruments can only detect levels of 1% Lower Explosive Limit (LEL) or greater. The handheld methane readings during the month were below the 50,000 ppm LEL. See attached methane log for the month of November 2015 in Appendix B.

E4. NITRIFICATION MONITORING

Weekly Nitrification sampling was performed during the month of November 2015, see Appendix C.

F. TABLES

Table 1. Monitoring Results for SP1, SP2, and SP3 Sample Locations.

Date, week of	SP1, Well Raw Water Discharge							SP2, Combined Pressure Filter Effluent			SP3, After chloramination static mixer; reservoir entry					
	Iron, ug/L	*MCL = 3 00 ug/L	Manganese, ug/L	*MCL = 50 ug/L	Color	*MCL=15	Total Coliform	Total Coliform	HPC, MPN/100mL	MCL=500	Iron, mg/L	*MCL = 300 ug/L	Manganese, mg/L	*MCL = 50 ug/L	Color	*MCL=15
11/4/2015											ND	300	ND	50	ND	15
11/12/2015	230	300	110	50	10	15	A	A	A	500	ND	300	ND	50	ND	15
11/18/2015											ND	300	ND	50	ND	15
11/24/2015											ND	300	ND	50	ND	15

Notes: Monthly- Orange Weekly- Yellow
A – Absent
ND – Non Detect
*Per the SWRCB Drinking Water “Chemicals and Contaminants in Drinking Water” Regulations

Table 2. Monitoring Results for Free and Total Chlorine at SP2, SP3, SP4 and SP5 Sample Locations.

Date, week of	SP2	SP3		SP4	SP5
	Free Cl	Free Cl	Total Cl	Free Cl	Total Cl
11/4/2015	8.29	1.71	9.15	0.93	2.97
11/12/2015	6.80	1.22	7.04	0.98	2.53
11/18/2015	8.80	1.13	6.62	0.83	2.12
11/24/2015	8.29	1.84	6.19	0.83	2.88

Table 3. Monitoring Requirements and Frequencies for SP1, SP5, and SP6.

Date, week of	TDS, mg/L				T.O.N.		Hardness, mg/L		Methane (Water), mg/L	
	SP1 - Raw Well Water	SP6 - MWD Water	SP5 - Reservoir Effluent	Goal= 500 - 750 mg/L	SP5 - Reservoir Effluent	MCL= 3	SP5 - Reservoir Effluent	Goal= 180 - 250 mg/L	SP1 - Raw Well Water	SP5 - Reservoir Effluent
11/4/2015			690	500-750						0.74
11/12/2015	730	680	740	500-750	1	3	290	180-250	4.1	0.88
11/18/2015			690	500-750						0.75
11/24/2015			690	500-750						0.68
Average			703							0.76

Notes: Monthly- Orange Weekly- Yellow
 ppm – parts per million
 mg/L – milligram per liter
 T.O.N. - Threshold Odor Number
 TDS - Total Dissolved Solids
 Hardness - As total CaCO₃
 Methane (Water) - Methane dissolved in water

Monthly CWPf Monitoring Report – November 2015
Cypress Water Production Facility
City of Lomita; System No. 1910073

Sample Locations and Parameters	Frequency	MCL/ Goal	Date 1stWk/ or Mo. Result	Date 2 nd Wk	Date 3rdWk	Date 4 th Wk	Date 5 th Wk	Met Freq.? Y/N	Met Std./ SI Goal? Y/N	Comments
SP1 --- Also called Well 5 Raw Water or Site#1.										
TDS, ppm	Monthly	See SP5	730	Operations Data/Information: CWPf operation days: 26 days (14 fill days; 12 draw days). Well 5 Only: Daily ave. flow- 775 gpm; November total prod.– 51.97 AF; Daily prod.- 3.71 AF Combined Well 5/MWD Data: Average Well5:MWD Blend Ratio – 53%:47%; November total prod.- 97.93 AF; Combined Daily prod.- 7.00 AF Chlorine Dosage: 2.63 mg/L (avg)				Y		
Hardness	Monthly	See SP5						Y		
CH4, ppm	Monthly	See SP5	4.1					Y		
Iron, ppb	Monthly	See SP3	230					Y		
Manganese, ppb	Monthly	See SP3	110					Y		
Color, units	Monthly	See SP3	10					Y		
Total Coliform, P or A	Monthly	-	A					Y	Y	
SP2 --- Also called Filter Effluent or Site#3.										
Total Coliform, P or A	Monthly	A	A	Operations Data/Information: Ammonia Dosage: _____				Y	Y	
HPC,MPN/100 ml	Monthly	500	A					Y	Y	
Free Cl Res, ppm	Continuous	Average: 8.05; Range: 6.80 – 8.80						Y		
SP3 --- Also called the Site After Chloramination & Before MWD Blending or Site#4.										
Iron, ppb	Weekly	300	ND	ND	ND	ND		Y	Y	
Manganese, ppb	Weekly	50	ND	ND	ND	ND		Y	Y	
Color	Weekly	15	ND	ND	ND	ND		Y	Y	
Free and Total Cl Res, ppm	Continuous	Free Cl: Average: 1.48; Range: 1.13 – 1.84 Total Cl: Average: 7.25; Range: 6.19 – 9.15 Ammonia: Average: ____; Range: ____ - ____						Y		Met Cl/NH3 Ratio? – Y/N
SP4 --- Also called Reservoir Influent or the Site Well 5/MWD Water Blend Point/Phosphate Injection.										
Phosphate Injection		Operations Data/Information: Phosphate Dosage: _____								
Free and Total Cl Res, ppm	Continuous	Free Cl: Average: 0.89; Range: 0.83 – 0.98 Total Cl: Average: ____; Range: ____ - ____ Ammonia: Average: ____; Range: ____ - ____						Y		Met Cl/NH3 Ratio? – Y/N
SP5 --- Also called Reservoir Effluent or Site#5. SP5 discharges into Zone 1 of the distribution system.										
1TDS, ppm	Weekly	SI Goal: 500-750ppm	690	740	690	690		Y	SI Goal-Y	
1Hardness	Monthly	SI Goal: 180-250ppm		290				Y	SI Goal-Y	
CH4, ppm	Weekly	SI Goal: 1	0.74	0.88	0.75	0.68		Y	SI Goal-Y	%Removal - _____
Odor, units	Monthly	3	1					Y	Y	
Free and Total Cl Res, ppm	Continuous	Free Cl: Average: ____; Range: ____ - ____ Total Cl: Average: 2.63; Range: 2.12 – 2.97 Ammonia: Average: ____; Range: ____ - ____						Y	Y	Met Cl/NH3 Ratio? – Y/N
Headspace of the Cypress Reservoir.										
1CH4 ppmv; using Portable Device	Daily (from log)	Goal - LEL	CH4 Average: 0.38%; CH4 Range: 0% - 4%					Y	SI Goal-Y	
SP 6 --- MWD Source Feeding CWPf. Also called Zone 2 of the distribution system or Site #6.										
TDS, ppm	Monthly	-----		680				Y		Above or below goal
Hardness	Monthly	-----						Y		Above or below goal
Notes: 1Self-Imposed (SI) Goals: TDS Goal-500-750 ppm; Hardness as CaCO3 Goal-180-250 ppm.										

Notes: 1Self-Imposed (SI) Goals: TDS Goal-500-750 ppm; Hardness as CaCO3 Goal-180-250 ppm.

Note: This Report is due to DDW by the 10th of the following month.

APPENDIX A

LABORATORY RESULTS

Clinical Laboratory of San Bernardino, Inc.



09 December 2015

Clinical Lab No.: 15K2043

Mark Andersen
Lomita, City of
24373 Walnut Avenue
Lomita, CA 91717

Project Name: Standard Analysis
Sub Project: CWPF Weekly Compliance Analysis

Enclosed are the results of the analyses for samples received at the laboratory on 11/24/15 . Samples were received within temperature range, in correct containers and preservation.

Analyses were performed pursuant to client's chain of custody, within hold times, utilizing EPA or other ELAP approved methodologies.

I certify that the results are within compliance both technically and for completeness. Analytical results are attached to this letter. Please call if any additional information and or assistance are needed.

Thank you for choosing Clinical Laboratory of San Bernardino for your analytical needs.

Sincerely,

A handwritten signature in black ink, appearing to read 'Stu Styles', with a stylized flourish at the end.

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.



Lomita, City of
24373 Walnut Avenue
Lomita CA, 91717

Project: Standard Analysis
Sub Project: CWPF Weekly Compliance Analysis
Project Manager: Mark Andersen

Work Order: 15K2043
Received: 11/24/15 15:15
Reported: 12/09/15

Filter Effluent Site (Chloramine) #3 **15K2043-01 (Water)** **Sample Date:** 11/24/15 11:26 **Sampler:** Edward Duvivier

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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General Physical Analyses

Apparent Color	SM 2120B	ND	3.0	15	Color Units	11/25/15	11/25/15	1548231	
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Metals

Iron (Fe)	EPA 200.7	ND	100	300	ug/L	12/04/15	12/04/15	1549771	
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Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	12/04/15	12/04/15	1549771	
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Reservoir Effluent Site #5 **15K2043-02 (Water)** **Sample Date:** 11/24/15 11:24 **Sampler:** Edward Duvivier

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Total Filterable Residue/TDS	SM 2540C	690	5.0	1000	mg/L	11/30/15	12/01/15	1549031	
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ND Analyte NOT DETECTED at or above the reporting limit



Certificate of Analysis

Project: 15K2043

Report Date: 12/10/15 09:28

Received Date: 11/25/15 12:35

Turnaround Time: 5 workdays

Phones: (909) 825-7693

Fax: (909) 825-7696

P.O. #:

Attn: John Styles

Client: Clinical Laboratory of San Bernardino, Inc.
21881 Barton Road
Grand Terrace, CA 92313

Dear John Styles :

Enclosed are the results of analyses for samples received 11/25/2015 with the Chain of Custody document. The samples were received in good condition, at 3.4 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Lab ID: 5K25033-01

Sample ID: Reservoir Effluent Site #5 / 15K2043-02

Matrix: Water

Sampled by: Client

Sampled: 11/24/15 11:24

Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Methane	0.68	0.0012	0.010	mg/l	1	RSK-175	12/8/15	12/8/15 0:01	W5L0549	



Certificate of Analysis

Quality Control Section

Dissolved Gases in Water by RSK-175 - Quality Control

Batch W5L0549 - RSK-175

Blank (W5L0549-BLK1)

Prepared: 12/08/15 Analyzed: 12/08/15 14:20

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		ND		mg/l					
Ethane		ND		mg/l					
Ethene		ND		mg/l					

LCS (W5L0549-BS1)

Prepared: 12/08/15 Analyzed: 12/08/15 14:20

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.204		mg/l	0.198	103	85-115		

Calibration Check (W5L0549-CCV1)

Prepared: 12/08/15 Analyzed: 12/08/15 14:20

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.00775		mg/l	0.00792	98	50-150		

Duplicate (W5L0549-DUP1)

Source: 5L04013-01

Prepared: 12/08/15 Analyzed: 12/08/15 14:20

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane	0.674	0.681		mg/l				1	20



Certificate of Analysis

Notes:

The Chain of Custody document is part of the analytical report.

Any remaining sample(s) for testing 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.

An Absence of Total Coliform meets the drinking water standards as established by the State of California Department of Health Services.

The Reporting Limit (RL) is referenced as laboratory's Practical Quantitation Limit (PQL).

For Potable water analysis, the Reporting Limit (RL) is referenced as Detection Limit for reporting purposes (DLRs) defined by EPA.

If sample collected by Weck Laboratories, sampled in accordance to lab SOP MIS002

Authorized Signature

Contact: Brandon Gee
(Project Manager)



ELAP # 1132
LACSD # 10143
NELAC #4047-002 ORELAP

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Weck Laboratories certifies that the test results meet all requirements of NELAC unless noted in the Case Narrative. This analytical report must be reproduced in its entirety.

Flags for Data Qualifiers:

ND	NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL).
Sub	Subcontracted analysis, original report enclosed.
DL	Method Detection Limit
RL	Method Reporting Limit
MDA	Minimum Detectable Activity
NR	Not Reportable

Chain of Custody

"Your Water and Wastewater Analysis Solution"

"Your Water and Wastewater Analysis Solution"

Clinical Laboratory of San Bernardino, Inc.



07 December 2015

Clinical Lab No.: 15K1729

Mark Andersen
Lomita, City of
24373 Walnut Avenue
Lomita, CA 91717

Project Name: Standard Analysis
Sub Project: CWPF Weekly Compliance Analysis

Enclosed are the results of the analyses for samples received at the laboratory on 11/18/15. Samples were received within temperature range, in correct containers and preservation.

Analyses were performed pursuant to client's chain of custody, within hold times, utilizing EPA or other ELAP approved methodologies.

I certify that the results are within compliance both technically and for completeness. Analytical results are attached to this letter. Please call if any additional information and or assistance are needed.

Thank you for choosing Clinical Laboratory of San Bernardino for your analytical needs.

Sincerely,

A handwritten signature in black ink, appearing to read 'Stu Styles', with a stylized flourish at the end.

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.



Lomita, City of
24373 Walnut Avenue
Lomita CA, 91717

Project: Standard Analysis
Sub Project: CWPF Weekly Compliance Analysis
Project Manager: Mark Andersen

Work Order: 15K1729
Received: 11/18/15 15:30
Reported: 12/07/15

Filter Effluent Site (Chloramine) #3 **15K1729-01 (Water)** **Sample Date:** 11/18/15 11:00 **Sampler:** Edward Duvivier

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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General Physical Analyses

Apparent Color	SM 2120B	ND	3.0	15	Color Units	11/20/15	11/20/15	1547582	
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Metals

Iron (Fe)	EPA 200.7	ND	100	300	ug/L	12/04/15	12/04/15	1549695	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	12/04/15	12/04/15	1549695	

Reservoir Effluent Site #5 **15K1729-02 (Water)** **Sample Date:** 11/18/15 10:59 **Sampler:** Edward Duvivier

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Total Filterable Residue/TDS	SM 2540C	690	5.0	1000	mg/L	11/23/15	11/25/15	1548028	
ND	Analyte NOT DETECTED at or above the reporting limit								



Certificate of Analysis

Project: 15K1729

Report Date: 12/07/15 13:04

Received Date: 11/20/15 09:53

Turnaround Time: 5 workdays

Phones: (909) 825-7693

Fax: (909) 825-7696

P.O. #:

Attn: John Styles

Client: Clinical Laboratory of San Bernardino, Inc.
21881 Barton Road
Grand Terrace, CA 92313

Dear John Styles :

Enclosed are the results of analyses for samples received 11/20/2015 with the Chain of Custody document. The samples were received in good condition, at 1.8 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Lab ID: 5K20007-01

Sample ID: Reservoir Effluent Site #5 / 15K1729-02

Matrix: Water

Sampled by: Client

Sampled: 11/18/15 10:59

Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Methane	0.75		0.010	mg/l	1	RSK-175	11/25/15	11/25/15 15:30	W5L0149	



Certificate of Analysis

Quality Control Section

Dissolved Gases in Water by RSK-175 - Quality Control

Batch W5L0149 - RSK-175

Blank (W5L0149-BLK1)

Prepared: 11/25/15 Analyzed: 11/25/15 15:30

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		ND		mg/l					
Ethane		ND		mg/l					
Ethene		ND		mg/l					

LCS (W5L0149-BS1)

Prepared: 11/25/15 Analyzed: 11/25/15 15:30

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.203		mg/l	0.198	103	85-115		

Calibration Check (W5L0149-CCV1)

Prepared: 11/25/15 Analyzed: 11/25/15 15:30

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.00475		mg/l	0.00792	60	50-150		

Duplicate (W5L0149-DUP2)

Source: 5K20007-01

Prepared: 11/25/15 Analyzed: 11/25/15 15:30

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane	0.754	0.726		mg/l				4	20



Certificate of Analysis

Notes:

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The Reporting Limit (RL) is referenced as laboratory's Practical Quantitation Limit (PQL).

For Potable water analysis, the Reporting Limit (RL) is referenced as Detection Limit for reporting purposes (DLRs) defined by EPA.

If sample collected by Weck Laboratories, sampled in accordance to lab SOP MIS002

Authorized Signature

Contact: Brandon Gee
(Project Manager)



ELAP # 1132
LACSD # 10143
NELAC #4047-002 ORELAP

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Weck Laboratories certifies that the test results meet all requirements of NELAC unless noted in the Case Narrative. This analytical report must be reproduced in its entirety.

Flags for Data Qualifiers:

ND	NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL).
Sub	Subcontracted analysis, original report enclosed.
DL	Method Detection Limit
RL	Method Reporting Limit
MDA	Minimum Detectable Activity
NR	Not Reportable

Clinical Laboratory of San Bernardino, Inc.

15K1729

010134

Chain of Custody

Client		City of Lomita		System Number		Analysis Requested																	
Address		24373 Walnut Avenue		1910073		Methane (AIR) (ASTM D1946)		Methane (WATER) (RSK175)		Color		Phosphorus- Total as P		Phosphate- Ortho as P		Total Dissolved Solids		Manganese		Iron		Comments / P.S. Codes	
Phone #		(310) 325-9830		Destination Laboratory																			
Fax #		(310) 325-3627		[X] Clinical Laboratory																			
Project		Standard Analysis		CDWR Compliance																			
Sub Project		CWPF Weekly Compliance Analysis		YES																			
Comments		Edward J. V. V.		ELAP #																			
Sampled by		Edward J. V. V.		1088																			
Date		Time		Sample Identification		Matrix		Type		Preserv		Total Chlorine											
				Raw Water Site #1		DW		1W		HCL													
				Raw Water Site #1		DW		1W		N/A													
11/18/15		1000		Filter Effluent Site (Chloramine) #3		DW		1W		N/A		-										W13-005	
																						W13-005	
																						E13-005A	
11/18/15		1050		Reservoir Effluent Site #5		DW		1W		N/A		-											
11/18/15		1059		Reservoir Effluent Site #5		DW		1W		HCL		-											
				Zone #2 Site #6		DW		1W		N/A													
Preservatives:		(1) Na ₂ S ₂ O ₃ (2) HCl (3) HNO ₃ (4) NH ₄ Cl		Matrix: DW-Drinking Water, WW-Waste Water, SW-Storm Water, GW-Ground Water, A-Air																			
(5) H ₂ SO ₄ (6) Na ₂ SO ₃ (7) Cold (8) Other:				Type- 1-Routine, 2-Repeat, 3-Replacement, 4-Special W-Well D-Dist.																			
Relinquished By (Sign)		Print Name / Company		Date / Time		Received By (Sign)		Print Name / Company															
Edward J. V. V.		Edward J. V. V.		11/18/15 12:10		Edward J. V. V.		Edward J. V. V.															
City of Lomita		City of Lomita		11-18-15 3:30		11-18-15 3:30		11-18-15 3:30															
Comments:		J. V. V.		Samples received: X		On ice (X) Intact () Custody seals		Temp 14.7 () F															
Shipped Via		Fed X		Golden State		UPS		Client		Other													

"Your Water and Wastewater Analysis Solution"

Clinical Laboratory of San Bernardino, Inc.



30 November 2015

Clinical Lab No.: 15K1282

Mark Andersen
Lomita, City of
24373 Walnut Avenue
Lomita, CA 91717

Project Name: Standard Analysis
Sub Project: Monthly Compliance

Enclosed are the results of the analyses for samples received at the laboratory on 11/13/15 . Samples were received within temperature range, in correct containers and preservation.

Analyses were performed pursuant to client's chain of custody, within hold times, utilizing EPA or other ELAP approved methodologies.

I certify that the results are within compliance both technically and for completeness. Analytical results are attached to this letter. Please call if any additional information and or assistance are needed.

Thank you for choosing Clinical Laboratory of San Bernardino for your analytical needs.

Sincerely,

A handwritten signature in black ink, appearing to read 'Stu Styles', with a stylized flourish at the end.

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.



Lomita, City of
24373 Walnut Avenue
Lomita CA, 91717

Project: Standard Analysis
Sub Project: Monthly Compliance
Project Manager: Mark Andersen

Work Order: 15K1282
Received: 11/13/15 15:40
Reported: 11/30/15

Filter Effluent (Free Chlorine) Site #2 **15K1282-01 (Water)** **Sample Date:** 11/13/15 11:50 **Sampler:** Edward Duvivier

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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Field Analyses

Cl Res Free (Field) Field **10.32** N/A mg/L 11/13/15 11/13/15 1547015

Microbiology Analyses

Total Coliform	SM 9223	A		N/A	P/A	11/13/15	11/14/15	1546618
E. Coli	SM 9223	A		N/A	P/A	11/13/15	11/14/15	1546618
Plate Count	SM9215B	ND	1	500	CFU/ml	11/13/15	11/15/15	1547012

Reservoir Effluent Site #5 **15K1282-02 (Water)** **Sample Date:** 11/13/15 11:53 **Sampler:** Edward Duvivier

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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General Physical Analyses

Odor Threshold EPA 140.1M **1** 1 3 TON 11/13/15 11/13/15 1546627

General Chemical Analyses

Total Filterable Residue/TDS SM 2540C **720** 5.0 1000 mg/L 11/18/15 11/20/15 1547211

ND Analyte NOT DETECTED at or above the reporting limit

Client		City of Lomita		System Number		Analysis Requested	
Address		24373 Walnut Avenue Lomita, CA 91717		1910073			
Phone #		(310) 325-9830		Destination Laboratory			
Fax #		(310) 325-3627		[X] Clinical Laboratory			
Project		Standard Analysis		RWQCB Compliance			
Sub Project		Monthly Compliance		YES			
Comments				ELAP #			
Sampled by		Edward Duvivier		1088		Free	
Date	Time	Sample Identification		Matrix	Type	Preserv	Total Chlorine
		Raw Water Site #1		GW	1W	N/A	-
		Raw Water Site #1		GW	1W	2,7	-
		Raw Water Site #1		GW	1W	1,7	-
11/13/15	1150	Filter Effluent (Free Chlorine) Site#2		DW	1W	1,7	10.32
		Filter Effluent (Total Chlorine) Site#3		DW	1W	N/A	-
		Zone #2 Site #6		DW	1D	N/A	-
		Reservoir Effluent Site #5		DW	1D	N/A	-
11/13/15	1153	Reservoir Effluent Site #5		DW	1D	2,7	-
Preservatives: (1) Na ₂ S ₂ O ₃ (2) HCl (3) HNO ₃ (4) NH ₄ Cl (5) H ₂ SO ₄ (6) Na ₂ SO ₃ (7) Cold (8) Other:							
Relinquished By (Sign)		Print Name / Company		Date / Time		Received By (Sign)	
[Signature]		Edward Duvivier		11/13/15 1157		[Signature]	
[Signature]		City of Lomita, CA		4		[Signature]	
Comments:		D. Chaparro / CLSB		Samples received: (X) Office (X) Intact () Custody seals		Temp 10 () F () C	
Shipped Via		Fed X		Golden State		UPS	
		Client		Other		Page 1 of 1	

Clinical Laboratory of San Bernardino, Inc.



23 November 2015

Clinical Lab No.: 15K1280

Mark Andersen
Lomita, City of
24373 Walnut Avenue
Lomita, CA 91717

Project Name: Standard Analysis
Sub Project: CWPF Weekly Non-Comp Analysis

Enclosed are the results of the analyses for samples received at the laboratory on 11/13/15 . Samples were received within temperature range, in correct containers and preservation.

Analyses were performed pursuant to client's chain of custody, within hold times, utilizing EPA or other ELAP approved methodologies.

I certify that the results are within compliance both technically and for completeness. Analytical results are attached to this letter. Please call if any additional information and or assistance are needed.

Thank you for choosing Clinical Laboratory of San Bernardino for your analytical needs.

Sincerely,

A handwritten signature in black ink, appearing to read 'Stu Styles', with a stylized flourish at the end.

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.



Lomita, City of
24373 Walnut Avenue
Lomita CA, 91717

Project: Standard Analysis
Sub Project: CWPF Weekly Non-Comp Analysis
Project Manager: Mark Andersen

Work Order: 15K1280
Received: 11/13/15 15:40
Reported: 11/23/15

Reservoir Effluent Site #5 **15K1280-01 (Water)** **Sample Date:** 11/13/15 11:53 **Sampler:** Edward Duvivier

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Hardness, Total (as CaCO₃)	Calculated	290	6.6	N/A	mg/L	11/17/15	11/17/15	[CALC]
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Metals

Calcium (Ca)	EPA 200.7	78	1.0	N/A	mg/L	11/17/15	11/17/15	1547073
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Magnesium (Mg)	EPA 200.7	24	1.0	N/A	mg/L	11/17/15	11/17/15	1547073
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ND Analyte NOT DETECTED at or above the reporting limit

Client		City of Lomita		System Number		Analysis Requested															
Address		24373 Walnut Avenue Lomita, CA 91717		1910073																	
Phone #	(310) 325-9830			Destination Laboratory																	
Fax #	(310) 325-3627			[X] Clinical Laboratory																	
Project	Standard Analysis			CDHP Compliance																	
Sub Project	CWPF Weekly Non-Comp. Analysis			No ELAP #																	
Comments				1088																	
Sampled by	Eduin D. V. V.																				
Date	Time	Sample Identification		Matrix	Type	Preserv	Total Chlorine	Total Alkalinity			Total Hardness (as CaCo3)	Total Dissolved Solids	Phosphate- Ortho as P	Phosphorus- Total as P	Color & Odor	Methane (WATER) (RSK175)	Methane (AIR) (ASTM D1946)	Comments / P.S. Codes			
			Raw Water Site #1	DW	1W	N/A															
			Filter Effluent Site #3	DW	1W	N/A															
			Reservoir Influent Site #4	DW	1W	N/A															
11/17/15	1157		Reservoir Effluent Site #5	DW	1W	N/A					X										
			Zone #2 Site #6	DW	1W	N/A															
Preservatives: (1) Na ₂ S ₂ O ₃ (2) HCl (3) HNO ₃ (4) NH ₄ Cl (5) H ₂ SO ₄ (6) Na ₂ SO ₃ (7) Cold (8) Other:				Matrix: DW-Drinking Water, WW-Waste Water, SW-Storm Water, GW- Ground Water, A-Air Type- 1-Routine, 2-Repeat, 3-Replacement, 4-Special W-Well D- Dist.																	
Requisitioned By (Sign)		Print Name / Company		Date / Time		Received By (Sign)		Print Name / Company													
[Signature]		Edward D. V. V.		11/13/15 1156		[Signature]		D. V. V.													
[Signature]		D. V. V.		11-13-15 11540		[Signature]		H. Grez													
Comments: 7-TAL				Samples received: [X] Intact () Custody seals		Temp 10 () F () C															
Shipped Via		Fed X Golden State UPS Client Other		Page 1 of 1																	

Clinical Laboratory of San Bernardino, Inc.



03 December 2015

Clinical Lab No.: 15K1193

Mark Andersen
Lomita, City of
24373 Walnut Avenue
Lomita, CA 91717

Project Name: Standard Analysis
Sub Project: Monthly Compliance

Enclosed are the results of the analyses for samples received at the laboratory on 11/12/15 . Samples were received within temperature range, in correct containers and preservation.

Analyses were performed pursuant to client's chain of custody, within hold times, utilizing EPA or other ELAP approved methodologies.

I certify that the results are within compliance both technically and for completeness. Analytical results are attached to this letter. Please call if any additional information and or assistance are needed.

Thank you for choosing Clinical Laboratory of San Bernardino for your analytical needs.

Sincerely,

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.



Lomita, City of
24373 Walnut Avenue
Lomita CA, 91717

Project: Standard Analysis
Sub Project: Monthly Compliance
Project Manager: Mark Andersen

Work Order: 15K1193
Received: 11/12/15 16:10
Reported: 12/03/15

Raw Water Site #1

15K1193-01 (Water)

Sample Date: 11/12/15 9:50

Sampler: DGM / DH

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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Microbiology Analyses

Total Coliform	SM 9223	A		N/A	P/A	11/12/15	11/13/15	1546575	
E. Coli	SM 9223	A		N/A	P/A	11/12/15	11/13/15	1546575	

General Physical Analyses

Apparent Color	SM 2120B	10.0	3.0	15	Color Units	11/12/15	11/12/15	1546598	
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General Chemical Analyses

Total Filterable Residue/TDS	SM 2540C	730	5.0	1000	mg/L	11/18/15	11/20/15	1547211	
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Metals

Iron (Fe)	EPA 200.7	230	100	300	ug/L	11/19/15	11/19/15	1547388	
Manganese (Mn)	EPA 200.7	110	20	50	ug/L	11/19/15	11/19/15	1547388	

Filter Effluent (Total Chlorine) Site #3

15K1193-02 (Water)

Sample Date: 11/12/15 9:50

Sampler: DGM / DH

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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Field Analyses

Cl Res Total (Field)	Field	4.7		N/A	mg/L	11/12/15	11/12/15	1547009	
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General Physical Analyses

Apparent Color	SM 2120B	ND	3.0	15	Color Units	11/12/15	11/12/15	1546598	
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Metals

Iron (Fe)	EPA 200.7	ND	100	300	ug/L	11/19/15	11/19/15	1547388	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	11/19/15	11/19/15	1547388	

Zone #2 Site #6

15K1193-03 (Water)

Sample Date: 11/12/15 9:50

Sampler: DGM / DH

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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Field Analyses

Cl Res Total (Field)	Field	1.8		N/A	mg/L	11/12/15	11/12/15	1547009	
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General Chemical Analyses

Total Filterable Residue/TDS	SM 2540C	680	5.0	1000	mg/L	11/18/15	11/20/15	1547211	
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Clinical Laboratory of San Bernardino, Inc.



Lomita, City of
24373 Walnut Avenue
Lomita CA, 91717

Project: Standard Analysis
Sub Project: Monthly Compliance
Project Manager: Mark Andersen

Work Order: 15K1193
Received: 11/12/15 16:10
Reported: 12/03/15

Reservoir Effluent Site #5

15K1193-04 (Water)

Sample Date: 11/12/15 9:50

Sampler: DGM / DH

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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Field Analyses

Cl Res Total (Field)	Field	1.55		N/A	mg/L	11/12/15	11/12/15	1547009	
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General Physical Analyses

Odor Threshold	EPA 140.1M	1	1	3	TON	11/12/15	11/12/15	1546598	
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General Chemical Analyses

Total Filterable Residue/TDS	SM 2540C	740	5.0	1000	mg/L	11/18/15	11/20/15	1547211	
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ND Analyte NOT DETECTED at or above the reporting limit



Certificate of Analysis

Project: 15K1193

Report Date: 11/24/15 15:12

Received Date: 11/13/15 10:27

Turnaround Time: 5 workdays

Phones: (909) 825-7693

Fax: (909) 825-7696

P.O. #:

Attn: John Styles

Client: Clinical Laboratory of San Bernardino, Inc.
21881 Barton Road
Grand Terrace, CA 92313

Dear John Styles :

Enclosed are the results of analyses for samples received 11/13/2015 with the Chain of Custody document. The samples were received in good condition, at 1.9 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Lab ID: 5K13004-01 Sample ID: Raw Site Site #1 / 15K1193-01 Matrix: Water
Sampled by: Client Sampled: 11/12/15 09:50

Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Methane	4.1		0.010	mg/l	1	RSK-175	11/13/15	11/16/15 0:00	W5K1368	S_AIR

Lab ID: 5K13004-02 Sample ID: Reservoir Effluent Site #5 / 15K1193-04 Matrix: Water
Sampled by: Client Sampled: 11/12/15 09:50

Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Methane	0.88		0.010	mg/l	1	RSK-175	11/13/15	11/16/15 0:00	W5K1368	S_AIR



Certificate of Analysis

Notes:

The Chain of Custody document is part of the analytical report.

Any remaining sample(s) for testing 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.

An Absence of Total Coliform meets the drinking water standards as established by the State of California Department of Health Services.

The Reporting Limit (RL) is referenced as laboratory's Practical Quantitation Limit (PQL).

For Potable water analysis, the Reporting Limit (RL) is referenced as Detection Limit for reporting purposes (DLRs) defined by EPA.

If sample collected by Weck Laboratories, sampled in accordance to lab SOP MIS002

Authorized Signature

Contact: Brandon Gee
(Project Manager)



ELAP # 1132
LACSD # 10143
NELAC #4047-002 ORELAP

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Weck Laboratories certifies that the test results meet all requirements of NELAC unless noted in the Case Narrative. This analytical report must be reproduced in its entirety.

Flags for Data Qualifiers:

S_AIR	Analysis subcontracted to Air Technology Laboratories, Inc., NELAP Certificate # E87847
ND	NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL).
Sub	Subcontracted analysis, original report enclosed.
DL	Method Detection Limit
RL	Method Reporting Limit
MDA	Minimum Detectable Activity
NR	Not Reportable

SUBCONTRACT ORDER

Clinical Laboratory of San Bernardino

15K1193

5K13004

SENDING LABORATORY:

Clinical Laboratory of San Bernardino
21881 Barton Road
Grand Terrace, CA 92313
Phone: 909.825.7693
Fax: 909.825.7696
Project Manager: Stu Styles

RECEIVING LABORATORY:

Weck Lab, Analytical & Environmental
Analytical & Environmental Svc 14859 E Clark Ave
Industry, CA 91745
Phone : (626) 336-2139
Fax: (626) 336-2634

Please email results to Project Manager: Stu Styles

[] glaubig@clinical-lab.com [] ybarra@clinical-lab.com [x] styles@clinical-lab.com [] nelson@clinical-lab.com

California EDT transfer those samples with PS codes provided [] Yes [x] No

Transfer File requested; log in with Element ID only [] Yes [x] No

Turn Around Time [] 10 Days [x] 5 Days [] Other ___ Days

Subcontract Comments:

Analysis

Comments

Sample ID: Raw Water Site #1 / 15K1193-01

Sampled: 11/12/15 09:50 PS Code:

Water

WTX ID:

Methane RSK175

Report in mg/L

Containers Supplied:

40mL Amber Vial w/ Na2S2O3 (B)

40mL Amber Vial w/ Na2S2O3 (C)

Sample ID: Reservoir Effluent Site #5 / 15K1193-04

Sampled: 11/12/15 09:50 PS Code:

Water

WTX ID:

Methane RSK175

Report in mg/L

Containers Supplied:

40mL Amber Vial HCl (B)

40mL Amber Vial HCl (C)

Released By

Date / Time

Received By

Date / Time

Released By

Date / Time

Received By

Date / Time

Client		City of Lomita		System Number		Analysis Requested										
Address		24373 Walnut Avenue Lomita, CA 91717		1910073												
Phone #		(310) 325-9830		Destination Laboratory												
Fax #		(310) 325-3627		[X] Clinical Laboratory												
Project		Standard Analysis		RWQCB Compliance												
Sub Project		Monthly Compliance		YES												
Comments				ELAP #												
Sampled by		DWM/WH		1088												
Date	Time	Sample Identification	Matrix	Type	Preserv	Total Chlorine	Total Dissolved Solids	Iron & Manganese	E. Coli	Total Coliform	Heterotrophic Plate Count	Color	Odor	Methane (WATER) (RSK175)	Comments / P.S. Codes	
11-12-15	0950	Raw Water Site #1	GW	1W	N/A	N/A	X	X				X				
		Raw Water Site #1	GW	1W	2,7									X		
		Raw Water Site #1	GW	1W	1,7				X	X						
11-12-15	0950	Filter Effluent (Free Chlorine) Site #2	DW	1W	1,7	4.1				X	X	per lab		ward	11/12/15	
		Filter Effluent (Total Chlorine) Site #3	DW	1W	N/A	4.7		X				X				
11-12-15	0950	Zone #2 Site #6	DW	1D	N/A	1.80	X									
11-12-15	0950	Reservoir Effluent Site #5	DW	1D	N/A	1.55	X						X			
		Reservoir Effluent Site #5	DW	1D	2,7									X		

Preservatives: (1) Na₂S₂O₃ (2) HCl (3) HNO₃ (4) NH₄Cl
(5) H₂SO₄ (6) Na₂SO₃ (7) Cold (8) Other:

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
M. C. L.	C.C.S.B.	11/12/15 4:10	[Signature]	S. V. N. / U.S.
DANIEL MATEIK	City of Lomita, CA	11-12-15 / 12:35	[Signature]	C.C.S.B.

Comments: Samples received: () On ice () Intact () Custody seals
Temp 13 () F () C

Shipped Via: Fed X Golden State UPS Client Other Page 1 of 1

Clinical Laboratory of San Bernardino, Inc.



20 November 2015

Clinical Lab No.: 15K0445

Mark Andersen
Lomita, City of
24373 Walnut Avenue
Lomita, CA 91717

Project Name: Standard Analysis
Sub Project: CWPF Weekly Compliance Analysis

Enclosed are the results of the analyses for samples received at the laboratory on 11/04/15 . Samples were received within temperature range, in correct containers and preservation.

Analyses were performed pursuant to client's chain of custody, within hold times, utilizing EPA or other ELAP approved methodologies.

I certify that the results are within compliance both technically and for completeness. Analytical results are attached to this letter. Please call if any additional information and or assistance are needed.

Thank you for choosing Clinical Laboratory of San Bernardino for your analytical needs.

Sincerely,

A handwritten signature in black ink, appearing to read 'Stu Styles', with a stylized flourish at the end.

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.



Lomita, City of
24373 Walnut Avenue
Lomita CA, 91717

Project: Standard Analysis
Sub Project: CWPF Weekly Compliance Analysis
Project Manager: Mark Andersen

Work Order: 15K0445
Received: 11/04/15 14:30
Reported: 11/20/15

Filter Effluent Site (Chloramine) #3 **15K0445-01 (Water)** **Sample Date:** 11/04/15 11:45 **Sampler:** Edward Duvivier

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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General Physical Analyses

Apparent Color	SM 2120B	ND	3.0	15	Color Units	11/05/15	11/05/15	1545621	
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Metals

Iron (Fe)	EPA 200.7	ND	100	300	ug/L	11/12/15	11/13/15	1546491	
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Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	11/12/15	11/13/15	1546491	
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Reservoir Effluent Site #5 **15K0445-02 (Water)** **Sample Date:** 11/04/15 11:48 **Sampler:** Edward Duvivier

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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General Chemical Analyses

Total Filterable Residue/TDS	SM 2540C	690	5.0	1000	mg/L	11/10/15	11/12/15	1546100	
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ND Analyte NOT DETECTED at or above the reporting limit



Certificate of Analysis

Project: 15K0445

Report Date: 11/10/15 13:55

Received Date: 11/05/15 12:30

Turnaround Time: 5 workdays

Phones: (909) 825-7693

Fax: (909) 825-7696

P.O. #:

Attn: John Styles

Client: Clinical Laboratory of San Bernardino, Inc.
21881 Barton Road
Grand Terrace, CA 92313

Dear John Styles :

Enclosed are the results of analyses for samples received 11/5/2015 with the Chain of Custody document. The samples were received in good condition, at 2.9 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Lab ID: 5K05059-01

Sample ID: Reservoir Effluent Site #5 / 15K0445-02

Matrix: Water

Sampled by: Client

Sampled: 11/04/15 11:48

Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Methane	0.74		0.010	mg/l	1	RSK-175	11/6/15	11/6/15 16:32	W5K0450	



Certificate of Analysis

Quality Control Section

Dissolved Gases in Water by RSK-175 - Quality Control

Batch W5K0450 - RSK-175

Blank (W5K0450-BLK1)

Prepared: 11/06/15 Analyzed: 11/06/15 12:15

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		ND		mg/l					

LCS (W5K0450-BS1)

Prepared: 11/06/15 Analyzed: 11/06/15 14:34

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.191		mg/l	0.198	97	85-115		

Calibration Check (W5K0450-CCV1)

Prepared: 11/06/15 Analyzed: 11/06/15 15:13

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.00748		mg/l	0.00792	94	0-200		

Calibration Check (W5K0450-CCV2)

Prepared: 11/06/15 Analyzed: 11/06/15 15:53

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.194		mg/l	0.198	98	0-200		

Duplicate (W5K0450-DUP1)

Source: 5K04051-01

Prepared: 11/06/15 Analyzed: 11/06/15 16:13

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane	2.36	2.04		mg/l				15	20



Certificate of Analysis

Notes:

The Chain of Custody document is part of the analytical report.

Any remaining sample(s) for testing 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.

An Absence of Total Coliform meets the drinking water standards as established by the State of California Department of Health Services.

The Reporting Limit (RL) is referenced as laboratory's Practical Quantitation Limit (PQL).

For Potable water analysis, the Reporting Limit (RL) is referenced as Detection Limit for reporting purposes (DLRs) defined by EPA.

If sample collected by Weck Laboratories, sampled in accordance to lab SOP MIS002

Authorized Signature

Contact: Brandon Gee
(Project Manager)



ELAP # 1132
LACSD # 10143
NELAC #4047-002 ORELAP

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Weck Laboratories certifies that the test results meet all requirements of NELAC unless noted in the Case Narrative. This analytical report must be reproduced in its entirety.

Flags for Data Qualifiers:

ND	NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL).
Sub	Subcontracted analysis, original report enclosed.
DL	Method Detection Limit
RL	Method Reporting Limit
MDA	Minimum Detectable Activity
NR	Not Reportable

SUBCONTRACT ORDER
Clinical Laboratory of San Bernardino
15K0445

5K05059

SENDING LABORATORY:

Clinical Laboratory of San Bernardino
21881 Barton Road
Grand Terrace, CA 92313
Phone: 909.825.7693
Fax: 909.825.7696
Project Manager: Stu Styles

RECEIVING LABORATORY:

Weck Lab, Analytical & Environmental
Analytical & Environmental Svc 14859 E Clark Ave
Industry, CA 91745
Phone : (626) 336-2139
Fax: (626) 336-2634

Please email results to Project Manager: Stu Styles

[] glaubig@clinical-lab.com [] ybarra@clinical-lab.com [☒ styles@clinical-lab.com [] nelson@clinical-lab.com

California EDT transfer those samples with PS codes provided [] Yes [☒ No

Transfer File requested; log in with Element ID only [] Yes [☒ No

Turn Around Time [] 10 Days [☒ 5 Days [] Other ___ Days

Subcontract Comments:

Analysis

Comments

Sample ID: Reservoir Effluent Site #5 / 15K0445-02

Sampled: 11/04/15 11:48 PS Code:
Water

WTX ID:

Methane RSK175

Report in mg/L

Containers Supplied:

40ml Amber Vial (B)

40ml Amber Vial (C)

Released By

Date / Time

Received By

Date / Time

Released By

Date / Time

Received By

Date / Time

Chain of Custody

Clinical Laboratory of San Bernardino, Inc.

Client		City of Lomita		System Number		Analysis Requested							
Address		24373 Walnut Avenue Lomita, CA 91717		1910073									
Phone #		(310) 325-9830		Destination Laboratory									
Fax #		(310) 325-3627		[X] Clinical Laboratory									
Project		Standard Analysis		CDWR Compliance									
Sub Project		CWPF Weekly Compliance Analysis		YES									
Comments				ELAP #									
Sampled by		Elnor D. Davis		1088									
Date	Time	Sample Identification		Matrix	Type	Preserv	Total Chlorine					Comments / P.S. Codes	
		Raw Water Site #1		DW	IW	HCL						W13-005	
		Raw Water Site #1		DW	IW	N/A						W13-005	
11/4/15	11:25	Filter Effluent Site (Chloramine) #3(1)		DW	IW	N/A	X	X				E13-005A	
11/4/15	11:47	Reservoir Effluent Site #5 (1)		DW	IW	N/A							
11/4/15	11:48	Reservoir Effluent Site #5 (2)		DW	IW	HCL			X				
		Zone #2 Site #6		DW	IW	N/A							
Preservatives: (1) Na ₂ S ₂ O ₃ (2) HCl (3) HNO ₃ (4) NH ₄ CI (5) H ₂ SO ₄ (6) Na ₂ SO ₃ (7) Cold (8) Other:													
Relinquished By (Sign)				Print Name / Company				Date / Time		Received By (Sign)		Print Name / Company	
				Elnor D. Davis				11/4/15 12:30				J. Lucero/CSD	
City of Lomita								11-4-15 2:30P				J. Lucero/CSD	
Comments:										Samples received: On ice () In fact () Custody seals Temp 13.6 () F			
Shipped Via		Fed X		Golden State		UPS		Client		Other		Page 1 of 1	

"Your Water and Wastewater Analysis Solution"

APPENDIX B

METHANE MONITORING LOG



CITY OF LOMITA
PUBLIC WORKS DEPARTMENT

**CYPRESS WATER PRODUCTION FACILITY
HANDHELD METHANE LOG READINGS**

November 2015				
DATE	TIME	METHANE HANDHELD		COMMENTS
11/1/2015				
11/2/2015	1:00 PM	CH ₄ - 0%	Oxy- 20.9%	
11/3/2015	3:00 PM	CH ₄ - 0%	Oxy- 20.9%	
11/4/2015	9:00 AM	CH ₄ - 1%	Oxy- 20.8%	
11/5/2015	3:00 PM	CH ₄ - 0%	Oxy- 20.8%	
11/6/2015				
11/7/2015				
11/8/2015				
11/9/2015	3:00 PM	CH ₄ - 0%	Oxy- 20.9%	
11/10/2015	3:00 PM	CH ₄ - 0%	Oxy- 20.7%	
11/11/2015				
11/12/2015	9:00 AM	CH ₄ - 0%	Oxy- 20.8%	
11/13/2015	8:30 AM	CH ₄ - 0%	Oxy- 20.9%	
11/14/2015				
11/15/2015				
11/16/2015	3:30 PM	CH ₄ - 0%	Oxy- 20.8%	
11/17/2015	3:45 PM	CH ₄ - 1%	Oxy- 20.6%	
11/18/2015	12:00 PM	CH ₄ - 0%	Oxy- 20.9%	
11/19/2015	3:45 PM	CH ₄ - 0%	Oxy- 20.9%	
11/20/2015				
11/21/2015				
11/22/2015				
11/23/2015	2:00 PM	CH ₄ - 0%	Oxy- 20.9%	
11/24/2015	4:00 PM	CH ₄ - 0%	Oxy- 20.5%	
11/25/2015	2:45 PM	CH ₄ - 0%	Oxy- 20.9%	
11/26/2015				
11/27/2015				
11/28/2015				
11/29/2015				
11/30/2015	11:30 AM	CH ₄ - 4%	Oxy- 20.9%	
ND- Non Detect				
CH ₄ - Methane				
Oxy- Oxygen				
Weekend/Day Off/Holiday- Red				

APPENDIX C

NITRIFICATION MONITORING DATA SUMMARY

'MONTHLY NITRIFICATION MONITORING SUMMARY REPORT
CITY OF LOMITA, System No. 1910073 --- Month, Year: November 2015

#	C o d e	Sample I.D	Location	Sample Date (and Time)	Temp	pH	Total Chlorine	Free Chlorine	Total Ammonia	Free Ammonia	Nitrite	Nitrate	Coliform ²	HPC	Z o n e	Comments
Units/Others→				MM/DD/YYYY Xx:xx am/pm	°C		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	P/A	CFU/ml		
1	D	S13-003	1948 W. 252 nd St	11/5/2015	22	8.2	3.20	0.66	0.67	-	0.010	-	A	ND	1	We//MWD Blend
2	D	S13-004	24632 S Moon Av	11/5/2015	22	8.2	3.20	0.58	0.68	-	0.010	-	A	ND	1	We//MWD Blend
3	D	S13-008	25417 Pennsylvania Av	11/5/2015	22	8.2	3.40	0.64	0.75	-	0.010	-	-	ND	1	We//MWD Blend
4	D	A	2052 Dawn St	11/5/2015	23	8.4	2.80	0.49	0.65	-	0.010	-	-	40	1	We//MWD Blend
5	D		Reservoir	11/5/2015	22	8.0	3.30	0.70	0.72	-	0.010	-	-	ND	1	We//MWD Blend
6	D	13-1	1912 W. 259 th Pl	11/5/2015	24	7.8	2.00	0.36	0.40	-	0.008	-	A	ND	2	MWD Only
7	D	13-2	26314 S Monte Vta.	11/5/2015	24	7.8	2.00	0.37	0.41	-	0.008	-	A	ND	3	MWD Only
8	D	13-5	2500 PCH	11/5/2015	23	7.8	1.80	0.33	0.39	-	0.006	-	A	ND	2	MWD Only
1	D	S13-003	1948 W. 252 nd St	11/12/2015	22	8.2	2.12	0.36	0.45	-	0.003	-	A	ND	1	We//MWD Blend
2	D	S13-004	24632 S Moon Av	11/12/2015	22	8.2	2.12	0.37	0.46	-	0.005	-	A	290	1	We//MWD Blend
3	D	S13-008	25417 Pennsylvania Av	11/12/2015	23	8.2	2.19	0.35	0.45	-	0.006	-	-	ND	1	We//MWD Blend
4	D	A	2052 Dawn St	11/12/2015	22	8.2	2.16	0.36	0.47	-	0.010	-	-	ND	1	We//MWD Blend
5	D		Reservoir	11/12/2015	23	8.2	2.16	0.50	0.43	-	0.005	-	-	ND	1	We//MWD Blend
6	D	13-1	1912 W. 259 th Pl	11/12/2015	23	7.8	1.90	0.32	0.42	-	0.014	-	A	ND	2	MWD Only
7	D	13-2	26314 S Monte Vta.	11/12/2015	23	7.8	1.90	0.33	0.41	-	0.014	-	A	ND	3	MWD Only
8	D	13-5	2500 PCH	11/12/2015	23	7.8	1.70	0.33	0.38	-	0.013	-	A	ND	2	MWD Only
1	D	S13-003	1948 W. 252 nd St	11/18/2015	23	7.8	2.20	0.36	0.48	-	0.005	-	A	ND	1	We//MWD Blend
2	D	S13-004	24632 S Moon Av	11/18/2015	22	7.8	2.05	0.34	0.46	-	0.006	-	A	28	1	We//MWD Blend
3	D	S13-008	25417 Pennsylvania Av	11/18/2015	23	8.0	2.19	0.36	0.46	-	0.004	-	-	ND	1	We//MWD Blend
4	D	A	2052 Dawn St	11/18/2015	22	7.8	2.18	0.34	0.47	-	0.006	-	-	25	1	We//MWD Blend
5	D		Reservoir	11/18/2015	22	8.0	2.16	0.47	0.45	-	0.005	-	-	ND	1	We//MWD Blend
6	D	13-1	1912 W. 259 th Pl	11/18/2015	21	7.4	1.90	0.30	0.39	-	0.009	-	A	ND	2	MWD Only
7	D	13-2	26314 S Monte Vta.	11/18/2015	21	7.4	2.00	0.30	0.40	-	0.018	-	A	ND	3	MWD Only
8	D	13-5	2500 PCH	11/18/2015	21	7.6	2.00	0.29	0.39	-	0.018	-	A	ND	2	MWD Only
1	D	S13-003	1948 W. 252 nd St	11/24/2015	20	8.3	2.40	0.39	0.60	-	0.005	-	A	ND	1	We//MWD Blend
2	D	S13-004	24632 S Moon Av	11/24/2015	20	8.3	2.50	0.39	0.51	-	0.009	-	A	11	1	We//MWD Blend
3	D	S13-008	25417 Pennsylvania Av	11/24/2015	20	8.0	2.20	0.35	0.58	-	0.007	-	-	ND	1	We//MWD Blend
4	D	A	2052 Dawn St	11/24/2015	20	8.3	2.20	0.35	0.52	-	0.007	-	-	2	1	We//MWD Blend
5	D		Reservoir	11/24/2015	21	8.0	2.70	0.68	0.40	-	0.005	-	-	ND	1	We//MWD Blend
6	D	13-1	1912 W. 259 th Pl	11/24/2015	20	8.0	2.30	0.32	0.40	-	0.018	-	A	ND	2	MWD Only
7	D	13-2	26314 S Monte Vta.	11/24/2015	20	8.0	1.90	0.33	0.40	-	0.024	-	A	ND	3	MWD Only
8	D	13-5	2500 PCH	11/24/2015	20	8.0	2.20	0.33	0.35	-	0.025	-	A	1	2	MWD Only
1	D	S13-003	1948 W. 252 nd St												1	
2	D	S13-004	24632 S Moon Av												1	
3	D	S13-008	25417 Pennsylvania Av												1	
4	D	A	2052 Dawn St												1	
5	D		Reservoir												1	
6	D	13-1	1912 W. 259 th Pl												2	
7	D	13-2	26314 S Monte Vta.												3	
8	D	13-5	2500 PCH												2	

¹Notes: Report Due to DDW by the 10th of the following month. This Report can be used for the routine weekly monitoring (one Report per month) as well as for daily monitoring when there is actual and potential for nitrification (about four or five Reports per month, in this case).

²Coliform results are part of weekly Bacti sampling results.

Clinical Laboratory of San Bernardino, Inc.



01 December 2015

Clinical Lab No.: 15K2023

Mark Andersen
Lomita, City of
24373 Walnut Avenue
Lomita, CA 91717

Project Name: Standard Analysis
Sub Project: Lomita Distribution Special Sample

Enclosed are the results of the analyses for samples received at the laboratory on 11/24/15 . Samples were received within temperature range, in correct containers and preservation.

Analyses were performed pursuant to client's chain of custody, within hold times, utilizing EPA or other ELAP approved methodologies.

I certify that the results are within compliance both technically and for completeness. Analytical results are attached to this letter. Please call if any additional information and or assistance are needed.

Thank you for choosing Clinical Laboratory of San Bernardino for your analytical needs.

Sincerely,

A handwritten signature in black ink, appearing to read 'Stu Styles', with a stylized flourish at the end.

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.



Lomita, City of
24373 Walnut Avenue
Lomita CA, 91717

Project: Standard Analysis
Sub Project: Lomita Distribution Special Sample
Project Manager: Mark Andersen

Work Order: 15K2023
Received: 11/24/15 15:15
Reported: 12/01/15

1948 W 252nd St

15K2023-01 (Water)

Sample Date: 11/24/15 7:30 **Sampler:** Daniel Mateik

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
---------	--------	--------	------------	-----	-------	----------	----------	-------	-----------

Field Analyses

Cl Res Total (Field) Field **2.4** N/A mg/L 11/24/15 11/24/15 1549190

Microbiology Analyses

Plate Count SM9215B ND 1 500 CFU/ml 11/24/15 11/26/15 1548232

General Chemical Analyses

pH (Lab) SM 4500HB **7.6** N/A pH Units 11/24/15 11/24/15 1548152

24632 S Moon Ave

15K2023-02 (Water)

Sample Date: 11/24/15 8:45 **Sampler:** Daniel Mateik

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
---------	--------	--------	------------	-----	-------	----------	----------	-------	-----------

Field Analyses

Cl Res Total (Field) Field **2.5** N/A mg/L 11/24/15 11/24/15 1549190

Microbiology Analyses

Plate Count SM9215B **11** 1 500 CFU/ml 11/24/15 11/26/15 1548232

General Chemical Analyses

pH (Lab) SM 4500HB **7.6** N/A pH Units 11/24/15 11/24/15 1548152

25417 Pennsylvania Ave.

15K2023-03 (Water)

Sample Date: 11/24/15 9:00 **Sampler:** Daniel Mateik

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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Field Analyses

Cl Res Total (Field) Field **2.2** N/A mg/L 11/24/15 11/24/15 1549190

Microbiology Analyses

Plate Count SM9215B ND 1 500 CFU/ml 11/24/15 11/26/15 1548232

General Chemical Analyses

pH (Lab) SM 4500HB **7.6** N/A pH Units 11/24/15 11/24/15 1548152

Clinical Laboratory of San Bernardino, Inc.



Lomita, City of
24373 Walnut Avenue
Lomita CA, 91717

Project: Standard Analysis
Sub Project: Lomita Distribution Special Sample
Project Manager: Mark Andersen

Work Order: 15K2023
Received: 11/24/15 15:15
Reported: 12/01/15

2052 Dawn St

15K2023-04 (Water)

Sample Date: 11/24/15 7:20 **Sampler:** Daniel Mateik

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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Field Analyses

Cl Res Total (Field)	Field	2.2		N/A	mg/L	11/24/15	11/24/15	1549190	
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Microbiology Analyses

Plate Count	SM9215B	2	1	500	CFU/ml	11/24/15	11/26/15	1548232	HT-08
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General Chemical Analyses

pH (Lab)	SM 4500HB	7.6		N/A	pH Units	11/24/15	11/24/15	1548152	
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Reservoir Effluent Site #5

15K2023-05 (Water)

Sample Date: 11/24/15 9:15 **Sampler:** Daniel Mateik

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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Field Analyses

Cl Res Total (Field)	Field	2.7		N/A	mg/L	11/24/15	11/24/15	1549190	
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Microbiology Analyses

Plate Count	SM9215B	ND	1	500	CFU/ml	11/24/15	11/26/15	1548232	
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General Chemical Analyses

pH (Lab)	SM 4500HB	7.6		N/A	pH Units	11/24/15	11/24/15	1548152	
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HT-08 Analysis performed outside of recommended 8 hour hold time but within required 24 hour hold time.

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the reporting limit

"Your Water and Wastewater Analysis Solution"

Clinical Laboratory of San Bernardino, Inc.



01 December 2015

Clinical Lab No.: 15K2022

Mark Andersen
Lomita, City of
24373 Walnut Avenue
Lomita, CA 91717

Project Name: Standard Analysis
Sub Project: Lomita Distribution Special Sample

Enclosed are the results of the analyses for samples received at the laboratory on 11/24/15 . Samples were received within temperature range, in correct containers and preservation.

Analyses were performed pursuant to client's chain of custody, within hold times, utilizing EPA or other ELAP approved methodologies.

I certify that the results are within compliance both technically and for completeness. Analytical results are attached to this letter. Please call if any additional information and or assistance are needed.

Thank you for choosing Clinical Laboratory of San Bernardino for your analytical needs.

Sincerely,

A handwritten signature in black ink, appearing to read 'Stu Styles', with a stylized flourish at the end.

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.



Lomita, City of
24373 Walnut Avenue
Lomita CA, 91717

Project: Standard Analysis
Sub Project: Lomita Distribution Special Sample
Project Manager: Mark Andersen

Work Order: 15K2022
Received: 11/24/15 15:15
Reported: 12/01/15

1912 W. 259th St. (S13-001 Zone: 2)

15K2022-01 (Water)

Sample Date: 11/24/15 7:45 **Sampler:** Daniel Mateik

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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Field Analyses

Cl Res Total (Field)	Field	2.3		N/A	mg/L	11/24/15	11/24/15	1549189	
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Microbiology Analyses

Plate Count	SM9215B	ND	1	500	CFU/ml	11/24/15	11/26/15	1548232	
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General Chemical Analyses

pH (Lab)	SM 4500HB	7.8		N/A	pH Units	11/24/15	11/24/15	1548152	
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2500 Pacific Coast Highway (S13-005 Zone 2)

15K2022-02 (Water)

Sample Date: 11/24/15 8:15 **Sampler:** Daniel Mateik

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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Field Analyses

Cl Res Total (Field)	Field	1.9		N/A	mg/L	11/24/15	11/24/15	1549189	
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Microbiology Analyses

Plate Count	SM9215B	1	1	500	CFU/ml	11/24/15	11/26/15	1548232	
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General Chemical Analyses

pH (Lab)	SM 4500HB	7.8		N/A	pH Units	11/24/15	11/24/15	1548152	
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26314 S. Monte Vista Ave. (S13-002 Zone: 3)

15K2022-03 (Water)

Sample Date: 11/24/15 8:00 **Sampler:** Daniel Mateik

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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Field Analyses

Cl Res Total (Field)	Field	2.2		N/A	mg/L	11/24/15	11/24/15	1549189	
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Microbiology Analyses

Plate Count	SM9215B	ND	1	500	CFU/ml	11/24/15	11/26/15	1548232	
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General Chemical Analyses

pH (Lab)	SM 4500HB	7.9		N/A	pH Units	11/24/15	11/24/15	1548152	
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pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the reporting limit

"Your Water and Wastewater Analysis Solution"

Clinical Laboratory of San Bernardino, Inc.



03 December 2015

Clinical Lab No.: 15K1737

Mark Andersen
Lomita, City of
24373 Walnut Avenue
Lomita, CA 91717

Project Name: Standard Analysis
Sub Project: Lomita Distribution Special Sample

Enclosed are the results of the analyses for samples received at the laboratory on 11/18/15 . Samples were received within temperature range, in correct containers and preservation.

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Sincerely,

A handwritten signature in black ink, appearing to read 'Stu Styles', with a stylized flourish at the end.

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.



Lomita, City of
24373 Walnut Avenue
Lomita CA, 91717

Project: Standard Analysis
Sub Project: Lomita Distribution Special Sample
Project Manager: Mark Andersen

Work Order: 15K1737
Received: 11/18/15 15:30
Reported: 12/03/15

1912 W. 259th St. (S13-001 Zone: 2)

15K1737-01 (Water)

Sample Date: 11/18/15 8:45 **Sampler:** Daniel Mateik

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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Field Analyses

Cl Res Total (Field)	Field	1.9		N/A	mg/L	11/18/15	11/18/15	1547527	
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Microbiology Analyses

Plate Count	SM9215B	ND	1	500	CFU/ml	11/18/15	11/20/15	1547579	
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General Chemical Analyses

pH (Lab)	SM 4500HB	7.8		N/A	pH Units	11/20/15	11/20/15	1547545	
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2500 Pacific Coast Highway (S13-005 Zone 2)

15K1737-02 (Water)

Sample Date: 11/18/15 8:30 **Sampler:** Daniel Mateik

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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Field Analyses

Cl Res Total (Field)	Field	2		N/A	mg/L	11/18/15	11/18/15	1547527	
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Microbiology Analyses

Plate Count	SM9215B	ND	1	500	CFU/ml	11/18/15	11/20/15	1547579	
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26314 S. Monte Vista Ave. (S13-002 Zone: 3)

15K1737-03 (Water)

Sample Date: 11/18/15 9:10 **Sampler:** Daniel Mateik

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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Field Analyses

Cl Res Total (Field)	Field	2		N/A	mg/L	11/18/15	11/18/15	1547527	
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Microbiology Analyses

Plate Count	SM9215B	ND	1	500	CFU/ml	11/18/15	11/20/15	1547579	
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pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the reporting limit

"Your Water and Wastewater Analysis Solution"

Clinical Laboratory of San Bernardino, Inc.



01 December 2015

Clinical Lab No.: 15K1707

Mark Andersen
Lomita, City of
24373 Walnut Avenue
Lomita, CA 91717

Project Name: Standard Analysis
Sub Project: Lomita Distribution Special Sample

Enclosed are the results of the analyses for samples received at the laboratory on 11/18/15 . Samples were received within temperature range, in correct containers and preservation.

Analyses were performed pursuant to client's chain of custody, within hold times, utilizing EPA or other ELAP approved methodologies.

I certify that the results are within compliance both technically and for completeness. Analytical results are attached to this letter. Please call if any additional information and or assistance are needed.

Thank you for choosing Clinical Laboratory of San Bernardino for your analytical needs.

Sincerely,

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.



Lomita, City of
24373 Walnut Avenue
Lomita CA, 91717

Project: Standard Analysis
Sub Project: Lomita Distribution Special Sample
Project Manager: Mark Andersen

Work Order: 15K1707
Received: 11/18/15 15:30
Reported: 12/01/15

1948 W 252nd St

15K1707-01 (Water)

Sample Date: 11/18/15 8:00 **Sampler:** Daniel Mateik

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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Field Analyses

Cl Res Total (Field) Field **2.2** N/A mg/L 11/18/15 11/18/15 1547492

Microbiology Analyses

Plate Count SM9215B ND 1 500 CFU/ml 11/18/15 11/20/15 1547579 HT-08

General Chemical Analyses

pH (Lab) SM 4500HB **7.7** N/A pH Units 11/19/15 11/19/15 1547496

24632 S Moon Ave

15K1707-02 (Water)

Sample Date: 11/18/15 9:15 **Sampler:** Daniel Mateik

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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Field Analyses

Cl Res Total (Field) Field **2.05** N/A mg/L 11/18/15 11/18/15 1547492

Microbiology Analyses

Plate Count SM9215B **28** 1 500 CFU/ml 11/18/15 11/20/15 1547579

General Chemical Analyses

pH (Lab) SM 4500HB **7.7** N/A pH Units 11/19/15 11/19/15 1547496

25417 Pennsylvania Ave.

15K1707-03 (Water)

Sample Date: 11/18/15 8:15 **Sampler:** Daniel Mateik

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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Field Analyses

Cl Res Total (Field) Field **2.19** N/A mg/L 11/18/15 11/18/15 1547492

Microbiology Analyses

Plate Count SM9215B ND 1 500 CFU/ml 11/18/15 11/20/15 1547579

General Chemical Analyses

pH (Lab) SM 4500HB **7.7** N/A pH Units 11/19/15 11/19/15 1547496

Clinical Laboratory of San Bernardino, Inc.



Lomita, City of
24373 Walnut Avenue
Lomita CA, 91717

Project: Standard Analysis
Sub Project: Lomita Distribution Special Sample
Project Manager: Mark Andersen

Work Order: 15K1707
Received: 11/18/15 15:30
Reported: 12/01/15

2052 Dawn St

15K1707-04 (Water)

Sample Date: 11/18/15 7:45 **Sampler:** Daniel Mateik

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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Field Analyses

Cl Res Total (Field)	Field	2.18		N/A	mg/L	11/18/15	11/18/15	1547492	
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Microbiology Analyses

Plate Count	SM9215B	25	1	500	CFU/ml	11/18/15	11/20/15	1547579	HT-08
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General Chemical Analyses

pH (Lab)	SM 4500HB	7.7		N/A	pH Units	11/19/15	11/19/15	1547496	
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Reservoir Effluent Site #5

15K1707-05 (Water)

Sample Date: 11/18/15 8:40 **Sampler:** Daniel Mateik

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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Field Analyses

Cl Res Total (Field)	Field	2.05		N/A	mg/L	11/18/15	11/18/15	1547492	
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Microbiology Analyses

Plate Count	SM9215B	ND	1	500	CFU/ml	11/18/15	11/20/15	1547579	
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General Chemical Analyses

pH (Lab)	SM 4500HB	7.7		N/A	pH Units	11/19/15	11/19/15	1547496	
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HT-08 Analysis performed outside of recommended 8 hour hold time but within required 24 hour hold time.

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the reporting limit

Client		City of Lomita		System Number		Analysis Requested							Comments / P.S. Codes		
Address		24373 Walnut Avenue Lomita, CA 91717		1910073											
Phone #		(310) 325-9830		Destination Laboratory											
Fax #		(310) 325-3627		[X] Clinical Laboratory											
Project		Standard Analysis		RWQCB Compliance											
Sub Project		Lomita Distribution Special Sample		No ELAP #											
Comments				1088											
Sampled by		DANIEL MATEIK													
Date	Time	Sample Identification		Matrix	Type	Preserv	Total Chlorine	Heterotrophic Plate Count	PH	Total Dissolved Solids	Phosphate- Ortho as P	Phosphorus- Total as P	Color & Odor	Nitrite	Nitrate
11/18/2015	0800	1948 W. 252nd St.		DW	D4	1,7	2.28	X							
11/18/2015		1948 W. 252nd St.		DW	D4	NA	-		X						
11/18/2015	0815	24632 S. Moon Ave.		DW	D4	1,7	2.05	X							
11/18/2015		24632 S. Moon Ave.		DW	D4	NA	-		X						
11/18/2015	0815	25417 Pennsylvania Ave.		DW	D4	1,7	2.19	X							
11/18/2015		25417 Pennsylvania Ave.		DW	D4	NA	-		X						
11/18/2015	0745	2052 Dawn St.		DW	D4	1,7	2.18	X							
11/18/2015		2052 Dawn St.		DW	D4	NA	-		X						
11/18/2015	0840	Reservoir Effluent Site #5		DW	D4	1,7	2.05	X							
11/18/2015		Reservoir Effluent Site #5		DW	D4	NA	-		X						
Preservatives: (1) Na ₂ S ₂ O ₃ (2) HCl (3) HNO ₃ (4) NH ₄ Cl (5) H ₂ SO ₄ (6) Na ₂ SO ₃ (7) Cold (8) Other:				Matrix: DW-Drinking Water, WW-Waste Water, SW-Storm Water, GW-Ground Water, A-Air Type- 1-Routine, 2-Repeat, 3-Replacement, 4-Special W-Well D-Dist.											
Relinquished By (Sign)		Print Name / Company		Date / Time		Received By (Sign)		Print Name / Company							
[Signature]		J. Muehler / CWSB		11-18-15 / 1530		[Signature]		H. B. [Signature] / CWSB							
[Signature]		City of Lomita		11-18-15 / 12:00		[Signature]		J. Muehler / CWSB							
Comments:				Samples received <input checked="" type="checkbox"/> On ice <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Custody seals Temp <input type="checkbox"/> F <input checked="" type="checkbox"/> C											
Shipped Via				Page 1 of 1											

Clinical Laboratory of San Bernardino, Inc.



24 November 2015

Clinical Lab No.: 15K1189

Mark Andersen
Lomita, City of
24373 Walnut Avenue
Lomita, CA 91717

Project Name: Standard Analysis
Sub Project: Lomita Distribution Special Sample

Enclosed are the results of the analyses for samples received at the laboratory on 11/12/15. Samples were received within temperature range, in correct containers and preservation.

Analyses were performed pursuant to client's chain of custody, within hold times, utilizing EPA or other ELAP approved methodologies.

I certify that the results are within compliance both technically and for completeness. Analytical results are attached to this letter. Please call if any additional information and or assistance are needed.

Thank you for choosing Clinical Laboratory of San Bernardino for your analytical needs.

Sincerely,

A handwritten signature in black ink, appearing to read 'Stu Styles', with a stylized flourish at the end.

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.



Lomita, City of	Project: Standard Analysis	Work Order: 15K1189
24373 Walnut Avenue	Sub Project: Lomita Distribution Special Sample	Received: 11/12/15 12:25
Lomita CA, 91717	Project Manager: Mark Andersen	Reported: 11/24/15

1948 W 252nd St **15K1189-01 (Water)** **Sample Date:** 11/12/15 7:58 **Sampler:** DGM / DH

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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Field Analyses

Cl Res Total (Field) Field **2.12** N/A mg/L 11/12/15 11/12/15 1547008

Microbiology Analyses

Plate Count SM9215B ND 1 500 CFU/ml 11/12/15 11/14/15 1546625 HT-08

24632 S Moon Ave **15K1189-02 (Water)** **Sample Date:** 11/12/15 7:30 **Sampler:** DGM / DH

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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Microbiology Analyses

Plate Count SM9215B **290** 1 500 CFU/ml 11/12/15 11/14/15 1546625 HT-08

25417 Pennsylvania Ave. **15K1189-03 (Water)** **Sample Date:** 11/12/15 9:25 **Sampler:** DGM / DH

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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Field Analyses

Cl Res Total (Field) Field **2.19** N/A mg/L 11/12/15 11/12/15 1547008

Microbiology Analyses

Plate Count SM9215B ND 1 500 CFU/ml 11/12/15 11/14/15 1546625

General Chemical Analyses

pH (Lab) SM 4500HB **7.7** N/A pH Units 11/13/15 11/13/15 1546557

2052 Dawn St **15K1189-04 (Water)** **Sample Date:** 11/12/15 6:58 **Sampler:** DGM / DH

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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Field Analyses

Cl Res Total (Field) Field **2.16** N/A mg/L 11/12/15 11/12/15 1547008

Microbiology Analyses

Plate Count SM9215B ND 1 500 CFU/ml 11/12/15 11/14/15 1546625 HT-08

General Chemical Analyses

pH (Lab) SM 4500HB **7.7** N/A pH Units 11/13/15 11/13/15 1546557

Clinical Laboratory of San Bernardino, Inc.



Lomita, City of
24373 Walnut Avenue
Lomita CA, 91717

Project: Standard Analysis
Sub Project: Lomita Distribution Special Sample
Project Manager: Mark Andersen

Work Order: 15K1189
Received: 11/12/15 12:25
Reported: 11/24/15

Reservoir Effluent Site #5 **15K1189-05 (Water)** **Sample Date:** 11/12/15 9:40 **Sampler:** DGM / DH

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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Field Analyses

Cl Res Total (Field)	Field	2.16		N/A	mg/L	11/12/15	11/12/15	1547008	
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Microbiology Analyses

Plate Count	SM9215B	ND	1	500	CFU/ml	11/12/15	11/14/15	1546625	
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General Chemical Analyses

pH (Lab)	SM 4500HB	7.8		N/A	pH Units	11/13/15	11/13/15	1546557	
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HT-08 Analysis performed outside of recommended 8 hour hold time but within required 24 hour hold time.

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the reporting limit

Client		City of Lomita		System Number		Analysis Requested												
Address		24373 Walnut Avenue		Lomita, CA 91717		1910073												
Phone #	(310) 325-9830			Destination Laboratory														
Fax #	(310) 325-3627			[X] Clinical Laboratory														
Project	Standard Analysis			RWQCB Compliance														
Sub Project	Lomita Distribution Special Sample			No														
Comments				ELAP #														
Sampled by	D. M. L. H.			1088														
Date	Time	Sample Identification		Matrix	Type	Preserv	Total Chlorine	Heterotrophic Plate Count		PH	Total Dissolved Solids	Phosphate- Ortho as P	Phosphorus- Total as P	Color & Odor	Nitrite	Nitrate	Comments / P.S. Codes	
11/12/2015	7:56 AM	1948 W. 252nd St.		DW	D4	1,7	2.12	X										
11/12/2015	7:58 AM	1948 W. 252nd St. *		DW	D4	NA	-											See weekly compliance
11/12/2015	7:30 AM	24632 S. Moon Ave.		DW	D4	1,7		X										
11/12/2015	7:30 AM	24632 S. Moon Ave. *		DW	D4	NA	-											See weekly compliance
11/12/2015	9:25 AM	25417 Pennsylvania Ave.		DW	D4	1,7	2.19	X										
11/12/2015				DW	D4	NA	-			X								
11/12/2015	6:56 AM	2052 Dawn St.		DW	D4	1,7	2.16	X										
11/12/2015	6:58 AM	2052 Dawn St.		DW	D4	NA	-			X								
11/12/2015	9:40 AM	Reservoir Effluent Site #5		DW	D4	1,7	2.16	X										
11/12/2015		Reservoir Effluent Site #5		DW	D4	NA	-			X								
Preservatives: (1) Na ₂ S ₂ O ₃ (2) HCl (3) HNO ₃ (4) NH ₄ Cl (5) H ₂ SO ₄ (6) Na ₂ SO ₃ (7) Cold (8) Other:				Matrix: DW-Drinking Water, WW-Waste Water, SW-Storm Water, GW-Ground Water, A-Air														
Relinquished By (Sign)				Print Name / Company		Date / Time		Received By (Sign)		Print Name / Company								
M. Chel				CCSB		11/12/15 5:00		M. Chel		CCSB								
DANIEL MATEK				City of Lomita		11-12-15/ 12:25												
Comments:								Samples received: () On ice () Intact () Custody seals				Temp () F () C						
Shipped Via				Fed X		Golden State		UPS		Client		Other						
												Page 1 of 1						

*Rec'd bottles for this analysis: No week of compliance Rec'd 11/12/15
 pass out containers, per Bob sk 11/12/15 "Your Water and Wastewater Analysis Solution"

Clinical Laboratory of San Bernardino, Inc.



23 November 2015

Clinical Lab No.: 15K1179

Mark Andersen
Lomita, City of
24373 Walnut Avenue
Lomita, CA 91717

Project Name: Standard Analysis
Sub Project: Lomita Distribution Special Sample

Enclosed are the results of the analyses for samples received at the laboratory on 11/12/15 . Samples were received within temperature range, in correct containers and preservation.

Analyses were performed pursuant to client's chain of custody, within hold times, utilizing EPA or other ELAP approved methodologies.

I certify that the results are within compliance both technically and for completeness. Analytical results are attached to this letter. Please call if any additional information and or assistance are needed.

Thank you for choosing Clinical Laboratory of San Bernardino for your analytical needs.

Sincerely,

A handwritten signature in black ink, appearing to read 'Stu Styles', with a stylized flourish at the end.

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.



Lomita, City of
24373 Walnut Avenue
Lomita CA, 91717

Project: Standard Analysis
Sub Project: Lomita Distribution Special Sample
Project Manager: Mark Andersen

Work Order: 15K1179
Received: 11/12/15 12:35
Reported: 11/23/15

1912 W. 259th St. (S13-001 Zone: 2)

15K1179-01 (Water)

Sample Date: 11/12/15 8:16 **Sampler:** Daniel Mateik

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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Field Analyses

Cl Res Total (Field) Field **1.9** N/A mg/L 11/12/15 11/12/15 1546549

Microbiology Analyses

Plate Count SM9215B ND 1 500 CFU/ml 11/12/15 11/14/15 1546625 HT-08

General Chemical Analyses

pH (Lab) SM 4500HB **7.8** N/A pH Units 11/12/15 11/12/15 1546538

2500 Pacific Coast Highway (S13-005 Zone 2)

15K1179-02 (Water)

Sample Date: 11/12/15 9:00 **Sampler:** Daniel Mateik

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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Field Analyses

Cl Res Total (Field) Field **1.7** N/A mg/L 11/12/15 11/12/15 1546549

Microbiology Analyses

Plate Count SM9215B ND 1 500 CFU/ml 11/12/15 11/14/15 1546625

General Chemical Analyses

pH (Lab) SM 4500HB **7.8** N/A pH Units 11/12/15 11/12/15 1546538

26314 S. Monte Vista Ave. (S13-002 Zone: 3)

15K1179-03 (Water)

Sample Date: 11/12/15 8:35 **Sampler:** Daniel Mateik

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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Field Analyses

Cl Res Total (Field) Field **1.9** N/A mg/L 11/12/15 11/12/15 1546549

Microbiology Analyses

Plate Count SM9215B ND 1 500 CFU/ml 11/12/15 11/14/15 1546625

General Chemical Analyses

pH (Lab) SM 4500HB **7.8** N/A pH Units 11/12/15 11/12/15 1546538

HT-08 Analysis performed outside of recommended 8 hour hold time but within required 24 hour hold time.

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the reporting limit

Client		City of Lomita		System Number		Analysis Requested																	
Address		24373 Walnut Avenue		1910073																			
Phone #		Lomita, CA 91717																					
Fax #		(310) 325-9830		Destination Laboratory																			
Project		(310) 325-3627		[X] Clinical Laboratory																			
Sub Project		Standard Analysis		RWQCB Compliance																			
Comments		Lomita Distribution Special Sample		No																			
Sampled by		DWM/WH		ELAP #		1088																	
Date	Time	Sample Identification		Matrix	Type	Preserv	Total Chlorine	Hetetrophic Plate Count							PH	Total Dissolved Solids	Phosphate- Ortho as P	Phosphorus- Total as P	Color & Odor	Nitrite	Nitrate	Comments / P.S. Codes	
11/12/2015	8:16 AM	1912 W. 259th St. (S13-001 Zone: 2)		DW	D4	1,7	1.7	X															
11/12/2015	8:16 AM	1912 W. 259th St. (S13-001 Zone: 2)		DW	D4	NA	-																
11/12/2015	9:00 AM	2500 Pacific Coast Highway (S13-005)		DW	D4	1,7	1.7	X															
11/12/2015		2500 Pacific Coast Highway (S13-005)		DW	D4	NA	-																
11/12/2015	8:35 AM	26314 S. Monte Vista Ave (S13-002 Zone: 3)		DW	D4	1,7	1.9	X															
11/12/2015				DW	D4	NA	-																
Preservatives: (1) Na ₂ S ₂ O ₃ (2) HCl (3) HNO ₃ (4) NH ₄ Cl (5) H ₂ SO ₄ (6) Na ₂ SO ₃ (7) Cold (8) Other:				Matrix: DW-Drinking Water, WW-Waste Water, SW-Storm Water, GW-Ground Water, A-Air																			
Relinquished By (Sign)				Print Name / Company				Date / Time				Received By (Sign)				Print Name / Company							
MCD				CLB				11/12/15 10:30 AM				DWM/WH				ECSB							
DANIEL MATEIX				City of Lomita				11/12/15 12:35 PM															
Comments:				Samples received: (X) On ice () Intact () Custody seals																			
				Temp 15 () F 50 () F																			
Shipped Via				Fed X				Golden State				UPS				Client				Other			
				Page 1 of 1																			

Clinical Laboratory of San Bernardino, Inc.



10 November 2015

Clinical Lab No.: 15K0455

Mark Andersen
Lomita, City of
24373 Walnut Avenue
Lomita, CA 91717

Project Name: Standard Analysis
Sub Project: Lomita Distribution Special Sample

Enclosed are the results of the analyses for samples received at the laboratory on 11/04/15 . Samples were received within temperature range, in correct containers and preservation.

Analyses were performed pursuant to client's chain of custody, within hold times, utilizing EPA or other ELAP approved methodologies.

I certify that the results are within compliance both technically and for completeness. Analytical results are attached to this letter. Please call if any additional information and or assistance are needed.

Thank you for choosing Clinical Laboratory of San Bernardino for your analytical needs.

Sincerely,

A handwritten signature in black ink, appearing to read 'Stu Styles', with a stylized flourish at the end.

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.



Lomita, City of
24373 Walnut Avenue
Lomita CA, 91717

Project: Standard Analysis
Sub Project: Lomita Distribution Special Sample
Project Manager: Mark Andersen

Work Order: 15K0455
Received: 11/04/15 14:30
Reported: 11/10/15

1948 W 252nd St

15K0455-01 (Water)

Sample Date: 11/04/15 7:45 **Sampler:** D G M

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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Field Analyses

Cl Res Total (Field) Field **1.93** N/A mg/L 11/04/15 11/04/15 1545573

Microbiology Analyses

Plate Count SM9215B ND 1 500 CFU/ml 11/04/15 11/06/15 1545662 HT-08

General Chemical Analyses

pH (Lab) SM 4500HB **8.0** N/A pH Units 11/05/15 11/05/15 1545549

24632 S Moon Ave

15K0455-02 (Water)

Sample Date: 11/04/15 9:25 **Sampler:** D G M

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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Field Analyses

Cl Res Total (Field) Field **1.6** N/A mg/L 11/04/15 11/04/15 1545573

Microbiology Analyses

Plate Count SM9215B **53** 1 500 CFU/ml 11/04/15 11/06/15 1545662

General Chemical Analyses

pH (Lab) SM 4500HB **7.9** N/A pH Units 11/05/15 11/05/15 1545549

25417 Pennsylvania Ave.

15K0455-03 (Water)

Sample Date: 11/04/15 8:00 **Sampler:** D G M

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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Field Analyses

Cl Res Total (Field) Field **2** N/A mg/L 11/04/15 11/04/15 1545573

Microbiology Analyses

Plate Count SM9215B ND 1 500 CFU/ml 11/04/15 11/06/15 1545662 HT-08

General Chemical Analyses

pH (Lab) SM 4500HB **8.0** N/A pH Units 11/05/15 11/05/15 1545549

Clinical Laboratory of San Bernardino, Inc.



Lomita, City of	Project: Standard Analysis	Work Order: 15K0455
24373 Walnut Avenue	Sub Project: Lomita Distribution Special Sample	Received: 11/04/15 14:30
Lomita CA, 91717	Project Manager: Mark Andersen	Reported: 11/10/15

2052 Dawn St **15K0455-04 (Water)** **Sample Date:** 11/04/15 7:30 **Sampler:** D G M

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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Field Analyses

Cl Res Total (Field) Field **1.75** N/A mg/L 11/04/15 11/04/15 1545573

Microbiology Analyses

Plate Count SM9215B **40** 1 500 CFU/ml 11/04/15 11/06/15 1545662 HT-08

General Chemical Analyses

pH (Lab) SM 4500HB **8.0** N/A pH Units 11/05/15 11/05/15 1545549

Reservoir Effluent Site #5 **15K0455-05 (Water)** **Sample Date:** 11/04/15 9:45 **Sampler:** D G M

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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Field Analyses

Cl Res Total (Field) Field **2.75** N/A mg/L 11/04/15 11/04/15 1545573

Microbiology Analyses

Plate Count SM9215B **ND** 1 500 CFU/ml 11/04/15 11/06/15 1545662

General Chemical Analyses

pH (Lab) SM 4500HB **7.9** N/A pH Units 11/05/15 11/05/15 1545549

HT-08 Analysis performed outside of recommended 8 hour hold time but within required 24 hour hold time.

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the reporting limit

Client		City of Lomita		System Number		Analysis Requested	
Address		24373 Walnut Avenue Lomita, CA 91717		1910073			
Phone #		(310) 325-9830		Destination Laboratory			
Fax #		(310) 325-3627		[X] Clinical Laboratory			
Project		Standard Analysis		RWQCB Compliance			
Sub Project		Lomita Distribution Special Sample		No			
Comments				ELAP #			
Sampled by		RSM		1088			
Date	Time	Sample Identification		Matrix	Type	Preserv	Total Chlorine
11/4/2015	0745	1948 W. 252nd St.		DW	D4	1,7	1.93
11/4/2015	0745	1948 W. 252nd St. (1)		DW	D4	NA	-
11/4/2015	0925	24632 S. Moon Ave.		DW	D4	1,7	1.60
11/4/2015	0925	24632 S. Moon Ave. (1)		DW	D4	NA	-
11/4/2015	0900	25417 Pennsylvania Ave.		DW	D4	1,7	2.00
11/4/2015	0900	(1)		DW	D4	NA	-
11/4/2015	0730	2052 Dawn St.		DW	D4	1,7	1.75
11/4/2015	0730	(1)		DW	D4	NA	-
11/4/2015	0945	Reservoir Effluent Site #5		DW	D4	1,7	2.75
11/4/2015	0945	(1)		DW	D4	NA	-
Preservatives: (1) Na ₂ S ₂ O ₃ (2) HCl (3) HNO ₃ (4) NH ₄ Cl (5) H ₂ SO ₄ (6) Na ₂ SO ₃ (7) Cold (8) Other:				Matrix: DW-Drinking Water, WW-Waste Water, SW-Storm Water, GW-Ground Water, A-Air Type- 1-Routine, 2-Repeat, 3-Replacement, 4-Special W-Well D-Dist.			
Sign Name		Print Name / Company		Date / Time		Received By (Sign)	
J. Lucero		J. Lucero / CLSB		11-4-15 / 2:30		J. Lucero	
Shirley J. Lucero		City of Lomita		11-4-15 / 12:15		J. Lucero / CLSB	
Comments:				Samples received: <input checked="" type="checkbox"/> Quick () Intact () Custody seals Temp 13.6 () F <input checked="" type="checkbox"/> C			
Shipped Via		Fed X Golden State UPS Client Other		Page 1 of 1			

Clinical Laboratory of San Bernardino, Inc.



10 November 2015

Clinical Lab No.: 15K0453

Mark Andersen
Lomita, City of
24373 Walnut Avenue
Lomita, CA 91717

Project Name: Standard Analysis
Sub Project: Lomita Distribution Special Sample

Enclosed are the results of the analyses for samples received at the laboratory on 11/04/15 . Samples were received within temperature range, in correct containers and preservation.

Analyses were performed pursuant to client's chain of custody, within hold times, utilizing EPA or other ELAP approved methodologies.

I certify that the results are within compliance both technically and for completeness. Analytical results are attached to this letter. Please call if any additional information and or assistance are needed.

Thank you for choosing Clinical Laboratory of San Bernardino for your analytical needs.

Sincerely,

A handwritten signature in black ink, appearing to read 'Stu Styles', with a stylized flourish at the end.

Stu Styles
Client Services Manager

Clinical Laboratory of San Bernardino, Inc.



Lomita, City of
24373 Walnut Avenue
Lomita CA, 91717

Project: Standard Analysis
Sub Project: Lomita Distribution Special Sample
Project Manager: Mark Andersen

Work Order: 15K0453
Received: 11/04/15 14:30
Reported: 11/10/15

1912 W. 259th St. (S13-001 Zone: 2)

15K0453-01 (Water)

Sample Date: 11/04/15 8:45 **Sampler:** D G M

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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Field Analyses

Cl Res Total (Field) Field **2.1** N/A mg/L 11/04/15 11/04/15 1545572

Microbiology Analyses

Plate Count SM9215B ND 1 500 CFU/ml 11/04/15 11/06/15 1545662

General Chemical Analyses

pH (Lab) SM 4500HB **7.9** N/A pH Units 11/05/15 11/05/15 1545549

2500 Pacific Coast Highway (S13-005 Zone 2)

15K0453-02 (Water)

Sample Date: 11/04/15 8:30 **Sampler:** D G M

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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Field Analyses

Cl Res Total (Field) Field **1.95** N/A mg/L 11/04/15 11/04/15 1545572

Microbiology Analyses

Plate Count SM9215B ND 1 500 CFU/ml 11/04/15 11/06/15 1545662

General Chemical Analyses

pH (Lab) SM 4500HB **8.0** N/A pH Units 11/05/15 11/05/15 1545549

26314 S. Monte Vista Ave. (S13-002 Zone: 3)

15K0453-03 (Water)

Sample Date: 11/04/15 8:55 **Sampler:** D G M

Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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Field Analyses

Cl Res Total (Field) Field **2** N/A mg/L 11/04/15 11/04/15 1545572

Microbiology Analyses

Plate Count SM9215B ND 1 500 CFU/ml 11/04/15 11/06/15 1545662

General Chemical Analyses

pH (Lab) SM 4500HB **8.0** N/A pH Units 11/05/15 11/05/15 1545549

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the reporting limit

"Your Water and Wastewater Analysis Solution"