# CITY OF LOMITA



# Cypress Water Production Facility Monthly Status Report

**NOVEMBER 2015** 

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STEPHEN BURRELL INTERIM CITY MANAGER

### CITY OF LOMITA

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,

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.

		SP1, We	ell Raw	Water	Disch	arge		Pres	Comi sure Effluer	Filter	SP		r chlora er; reser		on stat	ic
Date, week of	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	Α	А	Α	500	ND	300	ND	50	ND	15
11/18/2015										Man.	ND	300	ND	50	ND	15
11/24/2015		7 33						960)			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.

	SP2	S	P3	SP4	SP5
Date, week of	Free CI	Free Cl	Total CI	Free CI	Total CI
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.

		TD	S, mg/L		Т.О	.N.		dness, ng/L		thane r), mg/L
Date, week of	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		0.13				0.68
Average	100		703							0.76

Weekly- Yellow

Notes: Monthly- Orange
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 <sup>nd</sup> Wk	Date 3rdWk	Date 4 <sup>th</sup> Wk	Date 5 <sup>th</sup> Wk	Met Freq.? Y/N	Met Std./ SI Goal? Y/N	Comments
SP1 Also called	Well 5 Raw	/ Water c	or Site#1	1.						
TDS, ppm	Monthly	See SP5	730	Operation	ns Data/Info	mation:		Υ		
Hardness	Monthly	See SP5		CWPF or	peration day	<u>ys:</u>	(14 fill	Υ	+	
CH4, ppm	Monthly	See SP5	4.1	Well 5 Or		ve. flow- 775 .– <b>51.97</b> AF;		Y		
Iron, ppb	Monthly	See SP3	230	prod 3.7	'1 AF '	,	,	Υ		
Manganese, ppb	Monthly	See SP3	110			<b>ND Data:</b> Av atio – <b>53%:4</b> 7		Υ		
Color, units	Monthly	See SP3	10	Novembe	er total prod	<b>97.93</b> AF;		Υ		
Total Coliform, P or A	Monthly	-	Α		d <b>7.00</b> AF Dosage: <b>2.6</b>	3 mg/L (avg	)	Υ	Y	
SP2 Also called	Filter Efflu	ent or Si	te#3.							
Total Coliform, P or A	Monthly	Α	Α	Operation	ns Data/Infor	mation:		Υ	Υ	
HPC,MPN/100 ml	Monthly	500	A	Ammor	io Dooos	0.		Y	Y	
Free CI Res, ppm	Continuous	Average:	8 05 · R		nia Dosag			Y	+	
Tree or res, ppm	<u>I</u>	Average	. 0.00, 10	ange. V.	0.0					
SP3 Also called							nding o			
Iron, ppb	Weekly	300	ND	ND	ND	ND		Y	Y	
Manganese, ppb	Weekly	50	ND	ND	ND	ND		Y	Y	
Color	Weekly Continuous	15 Free Cl: 7	ND	ND	ND	ND 1 04		Y	Y	Mat CI/NILIO
E I T-4-1 OLD			average :	1.46: Rar	1ge: 1.13			Y		Met CI/NH3
ppm		Total CI: A Ammonia	Average: 7 : Average	<b>7.25</b> ; Rar :; Ra	nge: <b>6.19</b> ange:	<u>    -                                </u>	_			
SP4 Also called Phosphate Injection	Reservoir	Total CI: Ammonia  Influent ( Operations I Phosphat	Average: 7: Average  or the S Data/Informa e Dosage	7.25; Rar :; Ra ite Well tion: :	nge: 6.19 ange:	· Water	Blend F	_	hosphate	Injection.
Free and Total CI Res, ppm  SP4 Also called Phosphate Injection  Free and Total CI Res, ppm		Total CI: A Ammonia	Average: Average  or the S  Data/Informa e Dosage  Average: Average:	7.25; Rar :; Ra ite Well tion: : 0.89; Rar ; Ra	nge: 6.19 ange: 5/MWI nge: 0.83 ange:	- <u>-</u> - Water		Point/Pl	hosphate	Injection.  Met CI/NH3
SP4 Also called Phosphate Injection Free and Total CI Res, ppm	Reservoir	Influent ( Operations I Phosphat Free Cl: / Total Cl: / Ammonia	Average: Average  or the S  Data/Informa e Dosage  Average: Average: : Average	7.25; Rar :; Rar ite Well tion: : 0.89; Rar ; Rar :; Rar	nge: 6.19 ange:  1 5/MWI  nge: 0.83 ange: ange:	- 0.98	_	Y		Met CI/NH3 Ratio? – Y/N
SP4 Also called Phosphate Injection Free and Total CI Res, ppm  SP5 Also called	Reservoir	Influent ( Operations I Phosphat Free Cl: / Total Cl: / Ammonia	Average: Average  or the S  Data/Informa e Dosage  Average: Average: : Average	7.25; Rar :; Rar ite Well tion: : 0.89; Rar ; Rar :; Rar	nge: 6.19 ange:  1 5/MWI  nge: 0.83 ange: ange:	- 0.98	_	Y		Injection.  Met CI/NH3 Ratio? – Y/N
SP4 Also called Phosphate Injection Free and Total CI Res, ppm  SP5 Also called TDS, ppm	Reservoir Continuous Reservoir	Influent ( Operations	Average: Average  or the S Data/Informa e Dosage Average: Average: Average  Average	7.25; Rar :; Rar ite Well tion: : 0.89; Rar ; Rar :; Rar	nge: 6.19 ange:  1 5/MWI  nge: 0.83 ange: ange: discha	- 0.98 - 0.98 - 1	_	Y 1 of the	e distribut	Injection.  Met CI/NH3 Ratio? – Y/N
SP4 Also called Phosphate Injection Free and Total CI Res, ppm  SP5 Also called TDS, ppm  Hardness	Reservoir Continuous Reservoir Weekly	Influent ( Operations I Phosphat Free Cl: // Total Cl: // Ammonia  Effluent ( SI Goal: 500-750ppm	Average: Average  or the S Data/Informa e Dosage Average: Average: Average  Average	7.25; Rar :; Rar ite Well tion: : 0.89; Rar ; Rar 25. SP5 740	nge: 6.19 ange:  1 5/MWI  nge: 0.83 ange: ange: discha	- 0.98 - 0.98 - 1	_	Y 1 of the	e distribut	Met CI/NH3 Ratio? – Y/N
SP4 Also called Phosphate Injection Free and Total CI Res, ppm  SP5 Also called TDS, ppm  Hardness CH4, ppm	Reservoir Continuous  Reservoir Weekly Monthly	Influent ( Operations I Phosphat Free Cl: / Total Cl: / Ammonia  Effluent ( SI Goal: 500-750ppm	Average: Average  or the S Data/Informa e Dosage Average: Average: Average c Average or Site#	7.25; Rar :; Rar ite Well tion: : 0.89; Rar ; Rar :; Rar 25. SP5 740	nge: 6.19 nge: 0.83 nge: nge: nge: nge: nge: discha 690	- 0.98 	_	1 of the	e distribut SI Goal-Y	Met CI/NH3 Ratio? – Y/N
SP4 Also called Phosphate Injection Free and Total CI Res,	Reservoir Continuous  Reservoir Weekly Monthly Weekly	Influent ( Operations I Phosphat Free Cl: / Total Cl: / Ammonia  Effluent ( SI Goal: 500-750ppm SI Goal: 1 80-250ppm SI Goal: 1	Average: Average or the S Data/Informa e Dosage Average: Average: Average  or Site#  690  0.74  1 Average: Average: Average:	7.25; Rar :; Rar :; Rar :; Rar :; Rar :; Rar 25. SP5 740 290 0.88 ; Rar 263; Rar	discha 690 0.75 ange:	- 0.98 	_	1 of the Y	e distribut SI Goal-Y SI Goal-Y SI Goal-Y	Injection.  Met CI/NH3 Ratio? – Y/N
SP4 Also called Phosphate Injection Free and Total CI Res, ppm  SP5 Also called  TDS, ppm  Hardness CH4, ppm  Odor, units Free and Total CI Res, ppm	Reservoir  Continuous  Reservoir  Weekly  Monthly  Weekly  Monthly  Continuous	Total Cl: A Ammonia  Influent ( Operations I Phosphat Free Cl: A Total Cl: A Ammonia  Effluent ( SI Goal: 500-750ppm SI Goal: 1 80-250ppm SI Goal: 1  3 Free Cl: A Total Cl: A Ammonia	Average: Average or the S Data/Informa e Dosage Average: Average: Average  or Site#  690  0.74  1 Average: Average: Average:	7.25; Rar :; Rar :; Rar :; Rar :; Rar :; Rar 25. SP5 740 290 0.88 ; Rar 263; Rar	discha 690 0.75 ange:	- 0.98 	_	1 of the Y	e distribut SI Goal-Y SI Goal-Y SI Goal-Y	Met CI/NH3 Ratio? – Y/N tion system  %Removal ————————————————————————————————————
SP4 Also called Phosphate Injection Free and Total CI Res, ppm  SP5 Also called TDS, ppm  Hardness CH4, ppm Odor, units Free and Total CI Res, ppm  Headspace of the (	Reservoir Continuous  Reservoir Weekly Monthly Weekly Monthly Continuous  Cypress Re	Influent ( Operations I Phosphat Free CI: / Ammonia  Effluent ( SI Goal: 500-750ppm SI Goal: 1 3 Free CI: / Total CI: / Ammonia	Average: Average or the S Data/Informa e Dosage Average: Average: Average  0.74 1 Average:	7.25; Rar :; Rar :; Rar :; Rar 0.89; Rar; Rar; Rar 25. SP5 740 290 0.88; Rar; Rar 2.63; Rar; Rar 2.63; Rar; Rar	discha 690 0.75 ange:	- 0.98 	_	Y  1 of the Y  Y  Y  Y  Y	e distribut SI Goal-Y SI Goal-Y SI Goal-Y Y Y	Met CI/NH3 Ratio? – Y/N tion system  %Removal
SP4 Also called Phosphate Injection Free and Total CI Res, ppm  SP5 Also called TDS, ppm  Hardness CH4, ppm Odor, units Free and Total CI Res, ppm  Headspace of the C CH4 ppmv; using	Reservoir  Continuous  Reservoir  Weekly  Monthly  Weekly  Monthly  Continuous	Total Cl: A Ammonia  Influent ( Operations I Phosphat Free Cl: A Total Cl: A Ammonia  Effluent ( SI Goal: 500-750ppm SI Goal: 1 80-250ppm SI Goal: 1  3 Free Cl: A Total Cl: A Ammonia	Average: Average or the S Data/Informa e Dosage Average: Average: Average or Site# 690  0.74 1 Average:	7.25; Rar :; Rar :; Rar :; Rar :; Rar :; Rar 25. SP5 740 290 0.88 ; Rar 263; Rar	discha 690 0.75 ange:	- 0.98 	_	1 of the Y	e distribut SI Goal-Y SI Goal-Y SI Goal-Y	Met CI/NH3 Ratio? – Y/N tion system  %Removal ————————————————————————————————————
SP4 Also called Phosphate Injection Free and Total CI Res, ppm  SP5 Also called 1TDS, ppm  1Hardness CH4, ppm Odor, units Free and Total CI Res, ppm  Headspace of the (1CH4 ppmv; using Portable Device	Reservoir  Continuous  Reservoir  Weekly  Monthly  Weekly  Monthly  Continuous  Cypress Re  Daily  (from log)	Influent ( Operations of Phosphat Free Cl: // Ammonia  Effluent ( SI Goal: 500-750ppm SI Goal: 180-250ppm SI Goal: 1  3 Free Cl: // Ammonia	Average: Average or the S Data/Informa e Dosage Average: Average: Average or Site# 690  0.74  1 Average: Average: Average: CH4 Average: CH4 Average:	7.25; Rar :; Ra 25. SP5 740 290 0.88 ; Ra 2.63; Rar :; Ra  /erage: 0 ange: 0	discha  690  0.75  ange: 2.12  ange: 2.4%	- 0.98 	to Zone	Y  1 of the Y  Y  Y  Y  Y  Y	e distribut SI Goal-Y SI Goal-Y Y Y SI Goal-Y	Met CI/NH3 Ratio? – Y/N  cion system  %Removal  Met CI/NH3 Ratio? – Y/N
SP4 Also called Phosphate Injection Free and Total CI Res, ppm  SP5 Also called TDS, ppm  Hardness CH4, ppm Odor, units Free and Total CI Res, ppm  Headspace of the C CH4 ppmv; using	Reservoir  Continuous  Reservoir  Weekly  Monthly  Weekly  Monthly  Continuous  Cypress Re  Daily  (from log)	Influent ( Operations of Phosphat Free Cl: // Ammonia  Effluent ( SI Goal: 500-750ppm SI Goal: 180-250ppm SI Goal: 1  3 Free Cl: // Ammonia	Average: Average or the S Data/Informa e Dosage Average: Average: Average or Site# 690  0.74  1 Average: Average: Average: CH4 Average: CH4 Average:	7.25; Rar :; Ra 25. SP5 740 290 0.88 ; Ra 2.63; Rar :; Ra  /erage: 0 ange: 0	discha  690  0.75  ange: 2.12  ange: 2.4%	- 0.98 	to Zone	Y  1 of the Y  Y  Y  Y  Y  Y	e distribut SI Goal-Y SI Goal-Y Y Y SI Goal-Y	Met CI/NH3 Ratio? – Y/N  cion system  %Removal  Met CI/NH3 Ratio? – Y/N

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

# **APPENDIX A**

LABORATORY RESULTS



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,

Stu Styles

Client Services Manager

tistes



Lomita, City ofProjectStandard AnalysisWork Order:15K204324373 Walnut AvenueSub Project:CWPF Weekly Compliance AnalysisReceived:11/24/15 15:15Lomita CA, 91717Project Manager:Mark AndersenReported:12/09/15

Filter Effluent Site (Chloramine) #3		15K2043-	01 (Water)		Sample Dat	te: 11/24/15	11:26 <b>Sa</b>	mpler: Edw	ard Duvivier
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
General Physical Analyses									
Apparent Color	SM 2120B	ND	3.0	15	Color Units	11/25/15	11/25/15	1548231	
<u>Metals</u>									
Iron (Fe)	EPA 200.7	ND	100	300	ug/L	12/04/15	12/04/15	1549771	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	12/04/15	12/04/15	1549771	
Reservoir Effluent Site #5		15K2043-	02 (Water)		Sample Dat	te: 11/24/15	5 11:24 <b>Sa</b>	mpler: Edw	ard Duvivier
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Total Filterable Residue/TDS	SM 2540C	690	5.0	1000	mg/L	11/30/15	12/01/15	1549031	
ND Analyte NOT DETECTED at or above	the reporting limi	t							



**Certificate of Analysis** 

Analytical Laboratory Service - Since 1964

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. #:

**Project:** 15K2043

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: R	Reservoir E	ffluent Site	#5 / 15	K2043-02			Ma	atrix: Water
Sampled by: Client	Sample	d: 11/24/1	5 11:24							
Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Methane	0.68	0.0012	0.010	ma/l	1	RSK-175	12/8/15	12/8/15 0:01	W5I 0549	



20



Methane ......0.674 .....

### **Certificate of Analysis**

### **Quality Control Section**

### Dissolved Gases in Water by RSK-175 - Quality Control

Blank (W5L0549-BLK1)					Prepared: 12	/08/15 A	nalyzed: 12/08	3/15 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 A	nalyzed: 12/08	3/15 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 A	nalyzed: 12/08	8/15 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)	s	ource: 5L04013	-01		Prepared: 12	/08/15 A	nalyzed: 12/08	3/15 14:20	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit

mg/l

0.681

5K25033 Page 2 of 3



### **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.

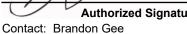
All results are expressed on wet weight basis unless otherwise specified.

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** 











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

#### Flags for Data Qualifiers:

(Project Manager)

ND NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method

Detection Limit (MDL).

Subcontracted analysis, original report enclosed. Sub

DL Method Detection Limit RL Method Reporting Limit MDA Minimum Detectable Activity

NR Not Reportable

5K25033 Page 3 of 3

Clinical Laboratory of San Bernardino, Inc.

		City of Lomita	Sy	stem N	System Number		Anal	<b>Analysis Requested</b>	Sedue	sted	ļ. 			
Address	<b>1</b>	24373 Walnut Avenue		2	4040072			-	-			-		
		Lomita, CA 91717		7	2001			<del></del>					Met	
Phone #	<b>34.</b>	(310) 325-9830	7	estinativ	Destination Laboratory	fory		10		Pho			han	
Fax#		(310) 325-3627		X] Clinic	[X] Clinical Laboratory	tory				ospl			ie (	
Project		Standard Analysis		CDWR (	CDWR Compliance	9				noru	C		AIR	<b>8-</b>
Sub Project	)ject	CWPF Weekly ComplianceAnalysis		ū	YES ELAP#		ron	ganes	- Orth	ıs- Tot	olor	TER)	(AS	
Comments	ints				000		-			al as			<u></u>	
Sampled by	d by	Elwerk Provier			1088			as .		s P			D194	
Date	Time	Sample Idenitification	Matrix	Type	Preserv	Total Chlorine							16)	Comments / P.S. Codes
		Raw Water Site #1	DW	1W	HCL				_				-	W13-005
		Raw Water Site #1	DW	1W	N/A								3	W13-005
							-	_	-					
1/21/1	1126	Filter Effluent Site (Chloramine) #3	DW	1W	N/A	١	×	X			×		3	E13-005A
1/21/12	123	Reservoir Effluent Site #5	DW	1W	N/A	١		~	X					
d/L2/	127	Reservoir Effluent Site #5	DW	1W	нсг	١		H				×		
								+	-	$\Box$		1	$\neg$	
		Zone #2 Site #6	ρM	<u>×</u>	N/A		1	$\dashv$	$\dashv$	$\overline{\mathbf{I}}$		$\dashv$	1	
	7							+	_	_				
Preserval	tives: (	Preservatives: (1) Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (2) HCI (3) HNO3 (4) NH4CI		Matrix	: DW-Drink		ww-w	aste V	Vater,	SW-St	orm V			GW- Ground Water, A-Air
<u>(e)</u>	(5) H2SO4	(7) Cold (8			Type-	ıtine,	2-Repeat,		3-Replacement, 4-Special	ement,	4-Sp		×-×	W-Well D- Dist.
Reling	Relinguished	ame / Comp	ny .		Date / Time	Time			Received By (Sign)	ed By	, (Sign	(I)		Print Name / Company
		My Elvier Invisio		1//	-1//6	1136								
A A		City of Lomita		11-2	7.8-	515	$\dashv$	V	N	N	/	N	$\forall$	<b>15.</b> (1.0) (1.0)
Comments:	ents:	)			-	Samples received: Te	eceiv	Temp	φŽ	n ice	$\mathcal{Z}_{\sim}$	Hufact ) F (	्ट्र हे	( ) Custody seals
Shipped Via	Via	[ ] Fed X [ ] Golden State	-	l UPS	Cliont	1 1 Othor			$\parallel$				1	* 0 * 0

"Your Water and Wastewater Analysis Solution"



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,

Stu Styles

Client Services Manager

tistes



Lomita, City ofProjectStandard AnalysisWork Order:15K172924373 Walnut AvenueSub Project:CWPF Weekly Compliance AnalysisReceived:11/18/15 15:30Lomita CA, 91717Project Manager:Mark AndersenReported:12/07/15

Filter Effluent Site (Chloramine) #3		15K1729-	01 (Water)		Sample Dat	te: 11/18/15	11:00 <b>Sa</b>	mpler: Ed	lward Duvivier
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
General Physical Analyses									
Apparent Color	SM 2120B	ND	3.0	15	Color Units	11/20/15	11/20/15	1547582	
<u>Metals</u>									
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		15K1729-0	02 (Water)		Sample Dat	te: 11/18/15	10:59 <b>Sa</b>	mpler: Ed	lward Duvivier
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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 limi	t							



Analytical Laboratory Service - Since 1964

### **Certificate of Analysis**

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

Project: 15K1729

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	D: F	Reservoir E	ffluent Site	#5 / 15	K1729-02			Ma	atrix: Water
Sampled by: Client	Sampled	l: 11/18/1	15 10:59							
Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Methane	0.75		0.010	ma/l	1	RSK-175	11/25/15	11/25/15 15:30	W5I 0149	





# **Certificate of Analysis**

### **Quality Control Section**

### Dissolved Gases in Water by RSK-175 - Quality Control

Ratch	WSI	<b>0140</b> -	RSK-175

Blank (W5L0149-BLK1)					Prepared: 11	/25/15 An	alyzed: 11/2!	5/15 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 An	alyzed: 11/2!	5/15 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 An	alyzed: 11/2!	5/15 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)	So	urce: 5K20007	7-01		Prepared: 11	/25/15 An	alyzed: 11/2!	5/15 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

5K20007 Page 2 of 3



### **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

5K20007 Page 3 of 3

15K1729  $\phi |\phi| \beta 4$ 

Clinical Laboratory of San Bernardino, Inc.

														Chain of Castoay
Client		City of Lomita	Sy	stem !	System Number		Ana	Analysis	Requested	este				
Address	7	24373 Walnut Avenue		1	1001						Ļ			
		Lomita, CA 91717		<u>ה</u>	1910073	~							Me	
Phone #		(310) 325-9830	7	estinati	Destination Laboratory	torv							etha	
Fax#		(310) 325-3627		X] Clinic	[X] Clinical Laboratory	torv							ne	z.
Project		Standard Analysis		CDWR	CDWR Compliance	, e					(		(AI	
Sub Project	CWPF	CWPF Weekly ComplianceAnalysis			YES FI AP #		ron	nganes	e- Ort solved	us- To	Color	ATER)	R) (AS	
Comments		F		1									TM	
Sampled by	EL	Jan Val		~	1088								D19	
Date Time		Sample Idenitification	Matrix	Type	Preserv	Total							946)	Solve Solve
		Raw Water Site #1	DW	<u>*</u>	HCL			+	+	-			T	W13-005
		Raw Water Site #1	DW	1 M	Z/Z				-					W13-005
1	+								-	<u> </u>				
CON 5/21/	+	'Filter Effluent Site (Chloramine) #3	DW	I W	N/A	1	×	×			×	$\perp$	Ť	E13-005A
A.,										_		$\perp$	+	
										-				
1									-				1	
CS01 1/8//		Reservoir Effluent Site #5	DW	1W	N/N	١			×	_			$\dagger$	
11/8/11/1059	Re	Reservoir Effluent Site #5 💈	DW	IW	HCL	١		-	-	_		×	1	
									-	L			$\dagger$	
	-	Zone #2 Site #6	DW	1W	N/A				+			$\dagger$		
		1					Н					T		
Droconnativos							$\dashv$							
(5) H2SQ4	(6) Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (2)	(5) H2SQ4 (6) Na2SQ3 (7) Cold (8) Other:		Matrix:	DW-Drink Type- 1	Matrix: DW-Drinking Water, WW-Waste Water, Type- 1-Routine, 2-Repeat, 3-Redlac	WW-W -Repe	aste l	<i>Nater,</i> ?e <i>Glace</i>	SW-Si	orm V	SW-Storm Water,	GW-W	, WW-Waste Water, SW-Storm Water, GW- Ground Water, A-Air 2-Repeat, 3-Rediacement 4-Special W.Well D. Diet
Relinquished By (Sign)	(Sign)	PrinthName / Company	9		Date / Time		$\vdash$		Redeiv	ed By	(Sign)	1	-	Print Name / Comnany
2, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7,		Burd Pulvis		11/18	3/1/	1216	7	to	$\langle \rangle$	7			+	T11/0/1/10/1/12
		City of Lo		31/1	51-8	3.20	$\vdash$		1	1	$\mathbb{N}$	1	$\vdash$	H. Grap / CCO 6
Comments:		Jucael cist			5	Samples received:	eceive	Se in a second	O	<u>}</u> §⊂	8,	X) Intact	<del>-</del>	( ) Custody seals
Shipped Via		Fed X     Golden State	I I UPS		Client	Other			1		-	) L	\$	Page 1 of 1
														-

"Your Water and Wastewater Analysis Solution"



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,

Stu Styles

Client Services Manager



Lomita, City ofProjectStandard AnalysisWork Order:15K128224373 Walnut AvenueSub Project:Monthly ComplianceReceived:11/13/15 15:40Lomita CA, 91717Project Manager:Mark AndersenReported:11/30/15

Filter Effluent (Free Chlorine) Site #2		15K1282-	01 (Water)		Sample Da	te: 11/13/1:	5 11:50 Sa	impler: E	dward Duvivier
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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	Α		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 Da	te: 11/13/1:	5 11:53 <b>Sa</b>	impler: E	dward Duvivier
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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	e the reporting limi	t							

	,		·			t			•	/	7)	15K1282
	Laboratory o	Clinical Laboratory of San Bernardino, Inc.	ic.		- 12 - 1 - 1 - 1 - 1 - 1			~	1/1/1	<u></u>	0	hain of Custody
Client		City of Lomita	Sys	ystem Number	ımber		Analysis Requested	s Regi	iestec			
Address	243	24373 Walnut Avenue		707	0070						_	
	7	Lomita, CA 91717	•	20	1910073						M	·
Phone #		(310) 325-9830	ă	stinatio	Destination Laboratory	Ž			He		etha	· ·
Fax#		(310) 325-3627	_	(] Clinica	[X] Clinical Laboratory	) Li					ane	
Project	S	Standard Analysis		WOCB	RWQCB Compliance	•	<del></del>					
Sub Project	Mo	Monthly Compliance			YES ELAP#		Mang:	E. Coli	ic Plat	Color	ATER) Odor	
Comments											(RS	
Sampled by	Edwa	Edwar Marista		F	1088	7.66			unt		K17:	*
Date	Тте	Sample Idenitification	Matrix	Туре	Preserv	Chloring 4					5)	Comments / P.S. Codes
		Raw Water Site #1	δW	¥1	N/A	į						
		Raw Water Site #1	ВW	1W	2,7	1						
	<u> </u>	Raw Water Site #1	МS	¥1	1,7	\ \	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\					
0511 71/21/11		Filter Effluent (Free Chlorine) Site#2	DW	WI.	1,7	10.00 P			×			1 Rut 10:22 m/1 Fr
	Filter Effl	Filter Effluent (Total Chlorine) Site#3	DW	¥I	N/A	l						
		Zone #2 Site #6	DW	1D	N/A							
11/13/15 115	> Rese	Reservoir Effluent Site #5	DW	9	N/A	1	×				×	10 leste, 1 glass
	Rese	Reservoir Effluent Site #5	MQ	1D	2,7							
Preservatives: (1) N (5) H2SO4 (6) N	Preservatives: (1) Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (2) HCI (3) HNO3 (5) H2SO4 (6) Na2SO3 (7) Cold (8) Other:	O3 (4) NH4CI		Matrix:	DW-Drink Tvpe- 1	Matrix: DW-Drinking Water, WW-Waste Water, SW-Storm Water, Type- 1-Routine. 2-Repeat. 3-Replacement. 4-Special	WW-Waste Water, SW-St. 2-Repeat. 3-Replacement	e Wate	, SW-S	torm Water		GW- Ground Water, A-Air W-Well D- Dist
Refinquished By (Sign)	d By (Sign)	Print Name / Company			Date / Time			SON SON	Received By			Print Name / Company
M W		Edward Duvinie	1 e	11/13	717	6511	12091	å	M	6	3	· 1
	0	City of Lomita, CA		1		なの	-	K		II	K	H. Grez / OLSB
Comments.	rappr	B. Chuppero/Luss	Ch		S	Samples received: (	ceived: Te	Temp	素ら	\Z'-	Intact F (	    - ^
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										•		

"Your Water and Wastewater Analysis Solution"



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,

Stu Styles

Client Services Manager

tistes



Lomita, City ofProjectStandard AnalysisWork Order:15K128024373 Walnut AvenueSub Project:CWPF Weekly Non-Comp AnalysisReceived:11/13/15 15:40Lomita CA, 91717Project Manager:Mark AndersenReported:11/23/15

Reservoir Effluent Site #5		15K1280-	01 (Water)		Sample Date	e: 11/13/1:	5 11:53 <b>S</b> a	ampler:	Edward Duvivier
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Hardness, Total (as CaCO3)	Calculated	290	6.6	N/A	mg/L	11/17/15	11/17/15	[CALC]	
<u>Metals</u>									
Calcium (Ca)	EPA 200.7	78	1.0	N/A	mg/L	11/17/15	11/17/15	1547073	
Magnesium (Mg)	EPA 200.7	24	1.0	N/A	mg/L	11/17/15	11/17/15	1547073	
ND Analyte NOT DETECTED at or ab	ove the reporting limit	t							

15k 1280 Chain of Custody

Clinical Laboratory of San Bernardino, Inc.

Client		City of Lomita	Š	stem N	System Number		Analys	Analysis Requested	liest	<b>P</b>			
Address	S	24373 Walnut Avenue		2	001								
		Lomita, CA 91717		2	91007 <i>3</i>		<u>T</u>				Me	Met	
Phone #	#	(310) 325-9830	Q	estinatic	Destination Laboratory	tory	otal				tha	har	3
Fax#		(310) 325-3627		X] Clinic	[X] Clinical Laboratory	tory					ne (	1e (	
<b>Project</b>		Standard Analysis		срнр с	CDHP Compliance	9					WA	AIF	
Sub Project	piect	CWPF Wookly Non-Comn Analysis			No		less Alka	solve	us- 7 e- O	& (	TE	R) (A	
	3006			E	ELAP#						R)	ST	
Comments	ents			1	000						(RS	<b>'M</b> 1	
Sampled by	d by	Efficient Davis			1088		Co3)				K17	D194	
Date	Time	Sample Idenitification	Matrix	Type	Preserv	Total Chlorine					5)	16)	Comments / P.S. Codes
		Raw Water Site #1	DW	1W	N/A								
							_						
		Filter Effluent Site #3	DW	1W	V/N								
		Reservoir Influent Site #4	DW	1W	N/A								
N1215	1157	Reservoir Effluent Site #5	DW	1W	N/A	j	X						
		Zone #2 Site #6	DW	1W	N/A								
Preserva (5)	tives: (1 H2SO4 (	Preservatives: (1) Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (2) HCI (3) HNO3 (4) NH4CI , (5) H2SO4 (6) Na <sub>2</sub> SO3 (7) Cold (8) Other:		Matrix:	DW-Drink Type- 1	Matrix: DW-Drinking Water, WW-Waste Water, SW-Storm Water, Type- 1-Routine, 2-Repeat, 3-Replacement, 4-Special	WW-Wa: Repeat	WW-Waste Water, SW-Storm Water 2-Repeat, 3-Replacement, 4-Special	r, SW-	Storm	Water, pecial		GW- Ground Water, A-Air W-Well D- Dist.
Refind	Relinquished By	By (Sign) APrint Name / Company			Date / 1		-	Rec	Received By (Sign)	Sy GS	(u)	1	
	11/1/	2 Edward Marios	1	11/13	116	1156	120	17	3	14	18	2	Done on 1453
1	Car	John Ochopan ( custo	B	11-13	(S	13×	01		P		M	-	H. Grez /ccsB
Comments: 7 TAT	ents:-7	•			<b>6</b> 2	Samples received: \Ter	eeived T	ed: 🛠	SE C		(Intact	) jou	( ) Custody seals
Shipped Via	Via	Fed X     Golden State	110	l SAN	Client	] Other							Page 1 of 1
													4

"Your Water and Wastewater Analysis Solution"



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



Lomita, City ofProjectStandard AnalysisWork Order:15K119324373 Walnut AvenueSub Project:Monthly ComplianceReceived:11/12/15 16:10Lomita CA, 91717Project Manager:Mark AndersenReported:12/03/15

Raw Water Site #1		15K1193-0	01 (Water)		Sample Dat	te: 11/12/15	9:50 <b>Sa</b>	mpler: D	GM / DH
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Microbiology Analyses									
Total Coliform	SM 9223	A		N/A	P/A	11/12/15	11/13/15	1546575	
E. Coli	SM 9223	Α		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	
General Chemical Analyses									
Total Filterable Residue/TDS	SM 2540C	730	5.0	1000	mg/L	11/18/15	11/20/15	1547211	
<u>Metals</u>									
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		15K1193-0	02 (Water)		Sample Dat	te: 11/12/15	9:50 <b>Sa</b>	mpler: D	GM / DH
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	4.7		N/A	mg/L	11/12/15	11/12/15	1547009	
General Physical Analyses									
Apparent Color	SM 2120B	ND	3.0	15	Color Units	11/12/15	11/12/15	1546598	
<u>Metals</u>									
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		15K1193-0	03 (Water)		Sample Dat	te: 11/12/15	9:50 <b>Sa</b>	mpler: D	GM / DH
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
<del></del>	Field	1.8		NI/A	m a /T	11/12/15	11/12/15	1547009	
Cl Res Total (Field)	Piciu	1.0		N/A	mg/L	11/12/13	11/12/13	134/009	
General Chemical Analyses									
Total Filterable Residue/TDS	SM 2540C	680	5.0	1000	mg/L	11/18/15	11/20/15	1547211	



Lomita, City ofProjectStandard AnalysisWork Order:15K119324373 Walnut AvenueSub Project:Monthly ComplianceReceived:11/12/15 16:10Lomita CA, 91717Project Manager:Mark AndersenReported:12/03/15

Reservoir Effluent Site #5		15K1193-0	04 (Water)		Sample Date	: 11/12/15	9:50 S	ampler: D	GM / DH
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	1.55		N/A	mg/L	11/12/15	11/12/15	1547009	
General Physical Analyses									
Odor Threshold	EPA 140.1M	1	1	3	TON	11/12/15	11/12/15	1546598	
General Chemical Analyses									
Total Filterable Residue/TDS	SM 2540C	740	5.0	1000	mg/L	11/18/15	11/20/15	1547211	
ND Analyte NOT DETECTED at or all	pove the reporting limit								



Analytical Laboratory Service - Since 1964

### **Certificate of Analysis**

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. #:

Project: 15K1193

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 Sampled by: Client	Sample I Sampled			te #1 / 15K	1193-01				Ma	ıtrix: Water
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 I	D: I	Reservoir E	ffluent Site	e #5 / 15	K1193-04			Ma	ıtrix: 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

5K13004 Page 1 of 2



#### **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











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 entiretv.

#### Flags for Data Qualifiers:

(Project Manager)

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).

Subcontracted analysis, original report enclosed. Sub

DL Method Detection Limit RL Method Reporting Limit MDA Minimum Detectable Activity

NR Not Reportable

5K13004 Page 2 of 2

### SUBCONTRACT ORDER

# Clinical Laboratory of San Bernardino

# 15K1193

**RECEIVING LABORATORY:** 

5K13004

SENDING LABORATORY:	RECEIVING LABORATORY:
Clinical Laboratory of San Bernardino	Weck Lab, Analytical & Environmental
21881 Barton Road	Analytical & Environmental Svc 14859 E Clark Ave
Grand Terrace, CA 92313	Industry, CA 91745
Phone: 909.825.7693	Phone :(626) 336-2139
Fax: 909.825.7696	Fax: (626) 336-2634
Project Manager: Stu Styles	1 tax. (020) 330 203 1
Please email results to Project Manager: Stu Styles [ ] glaubig@clinical-lab.com [ ] ybarra@clinical	al-lab.com [v] styles@clinical-lab.com [] nelson@clinical-lab.com
California EDT transfer those samples with Transfer File requested; log in with Element	
Turn Around Time [ ] 10 Days [ 5 Days Subcontract Comments:	[ ] Other Days
	C
Analysis	Comments
Sample ID: Raw Water Site #1 / 15K1193-01	Sampled: 11/12/15 09:50 PS Code: Water WTX ID:
	W 222
Methane RSK175	Report in mg/L
Containers Supplied:	
40mL Amber Vial w/ Na2S2O3 (B) 40mL A	Amber Vial w/ Na2S2O3 (C)
Sample ID: Reservoir Effluent Site #5 / 15K1193-04	Sampled: 11/12/15 09:50 PS Code: Water WTX ID:
	WIAID.
Methane RSK175	Report in mg/L
Containers Supplied:	
	amber Vial HCl (C)
10 () () () () () () () () () () () () ()	
	2 2
By Dly 11/13/15 08	1.15 De Alamana 14/18/15 906
Released By Date / Time	Received By Date / Time
My Bropham 11/15/	J& 1001
Released By / Date / Time	Received By Date / Time

15K 1193

Chain of Custody

Clinical Laboratory of San Bernardino, Inc.

		1.7°	¢											
Clent	١	City of Lomina	ô	System Number	Jagun		<u> </u>	Aranysis Requested	֓֞֝֞֝֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֓֓֓֡֓֓֓֓֡֓֓֡֓֓	בים בים -				
Address	2437	24373 Walnut Avenue		101	1010072									
	PC	Lomita, CA 91717	•	0									M	
Phone #		(310) 325-9830	a	estinatio	Destination Laboratory	tory	T			He			etha	, ,
₩ **		(310) 325-3627	D	(] Clinica	[X] Clinical Laboratory	tory	otal	Iroi	T				ne (	0/0/0
Project	St	Standard Analysis		WQCB .	RWQCB Compliance	92	Dis					(	(WA	Z/1/0
Sub Project	ιοW	Monthly Compliance			YES		solve	Col Man	Coli	ic Pl	Color	Odor	TEF	-
				Ü	¥ #		ed S				<u>,                                     </u>	•	₹)	
Comments				7	4088		Solid	nese	m				(RSI	
Sampled by	D	4M/WH					s			nt			<b>K175</b> )	
Date Time	Sam	Sample Idenitification	Matrix	Type	Preserv	Total Chlorine							)	Comments / P.S. Codes
11-12-15 6450	R	Raw Water Site #1	β	) N	N/A	XIA	×	×			×			
	X	Raw Water Site #1	C.W	<u>*</u>	2,7								×	
	R	Raw Water Site #1	W.S	<u>*</u>	1,7			×	×					
11-1215 845B	olija za <del>jlja</del>	Eilter Effluent (Free Chlorine) Site#2	MC	*	1,7	1 9		+	*	*	186		blugard	S1/21/12 PD
5	Filter Efflu	Filter Effluent (Total Chlorine) Site#3	DW	1W	N/A	2%		×			×			
DS49 81-11-11	,	Zone #2 Site #6	DW	1D	N/A	1.80	X							
D530 51-71-11	Reser	Reservoir Effluent Site #5	DW	£	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1,55	×					×		
	Reser	Reservoir Effluent Site #5 $\sim$	Wa	11)	2,7								×	
Preservatives: (1) Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (	(1) Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (2) HCI (3) HNO3	3 (4) NH4CI		Matrix:	DW-Drin		WW-V	Vaste V	Vater,	SW-S	torm	Wate		GW- Ground Water, A-Air
(5) H2SO4 (6) Na2SO3 (7) Cold (8) Other:	(7) Cold (8) Oth	ier:			Type-	Type- 1-Routine,	2-Rep	2-Repeat, 3-Replacement, 4-Special	eplac	emen	t, 4-S	ecia		W-Well D-Dist.
Relinquished By (Sign)	ign)	Print Name / Company	2		Date / Time	Fime			tecet	Received By	y (Sign)	n)		Print Name / Company
Mole		CCSB		11/15	-// /-	4:	0)			$\bigvee$				An huma
DANTEL M	MATETK	City of Lomita, CA		11-11	151-2	121	35		74	E	1			asso s
Comments:					<b>S</b>	Samples received: $(\chi)$ On ice Temp $(\chi)$	eceiv	ed: (\gamma\) Temp	0 (	n ice	)	Ont ) F	Intact (v) F	C Custody seals
Shipped Via		Fed X     Golden State	I I UPS	$\left  - \right $	Client	Other								Page_1_of_1_

"Your Water and Wastewater Analysis Solution"



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,

Stu Styles

Client Services Manager

tistes



Lomita, City ofProjectStandard AnalysisWork Order:15K044524373 Walnut AvenueSub Project:CWPF Weekly Compliance AnalysisReceived:11/04/15 14:30Lomita CA, 91717Project Manager:Mark AndersenReported:11/20/15

Filter Effluent Site (Chloramine) #3		15K0445-	01 (Water)		Sample Da	te: 11/04/15	11:45 <b>Sa</b>	mpler: Ed	lward Duvivier
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
General Physical Analyses									
Apparent Color	SM 2120B	ND	3.0	15	Color Units	11/05/15	11/05/15	1545621	
Metals									
Iron (Fe)	EPA 200.7	ND	100	300	ug/L	11/12/15	11/13/15	1546491	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	11/12/15	11/13/15	1546491	
Reservoir Effluent Site #5		15K0445-	02 (Water)		Sample Da	<b>te:</b> 11/04/15	5 11:48 <b>Sa</b>	mpler: Ed	lward Duvivier
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Total Filterable Residue/TDS	SM 2540C	690	5.0	1000	mg/L	11/10/15	11/12/15	1546100	
ND Analyte NOT DETECTED at or above	ve the reporting limi	t							



Analytical Laboratory Service - Since 1964

#### **Certificate of Analysis**

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

Project: 15K0445

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: F	Reservoir E	ffluent Site	#5 / 15	K0445-02			Ma	atrix: Water
Sampled by: Client	Sampled	l: 11/04/1	15 11:48							
Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Methane	0.74		0.010	ma/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

Blank (W5K0450-BLK1)					Prepared: 11,	/06/15 Ana	alyzed: 11/0	6/15 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 Ana	alyzed: 11/0	5/15 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 Ana	alyzed: 11/0	6/15 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 Ana	alyzed: 11/0	6/15 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)	5	ource: 5K04051	-01		Prepared: 11,	/06/15 Ana	alyzed: 11/0	6/15 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

5K05059 Page 2 of 3



#### **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

5K05059 Page 3 of 3

## SUBCONTRACT ORDER

## Clinical Laboratory of San Bernardino

15K0445

5K05059

SENDING LABORATORY:		RECEIVING LABORATO	RY:
Clinical Laboratory of San Bern	nardino	Weck Lab, Analytical & E	Envîronmental
21881 Barton Road		Analytical & Environment	
Grand Terrace, CA 92313		Industry, CA 91745	
Phone: 909.825.7693		Phone :(626) 336-2139	
Fax: 909.825.7696		Fax: (626) 336-2634	
Project Manager: Stu Styles		1 u.k. (020) 550 205 !	
California EDT transfer	[ ] ybarra@clinical-lab.com those samples with PS codes prolog in with Element ID only	[]Yes [11/No	[] nelson@clinical-lab.com
Analysis			Comments
Sample ID: Reservoir Effluent S		ampled: 11/04/15 11:48 PS Code: /ater	WTX ID:
Methane RSK175			Report in mg/L
Containers Supplied:			
0ml Amber Vial (B)	40ml Amber Vial (0	C)	
Released By	11/5/8 11:10 Date / Time 115-15 12:30	Received By Coma mit	11-5-15 11:15  Pate/Time 11 S  S 123D 29'C
Released By	Date / Time	Received By	Date / Time

 $15 \times 0445 9 913$ Chain of Custody

Clinical Laboratory of San Bernardino, Inc.

Client		City of I good	ľ											المستدرة المستدرة
		Cuy of Lomina	S	stem	System Number	•	Anal	Analysis	Reduested	estec			١.	
Address	-	24373 Walnut Avenue		7	1001		╁	ŀ	-			-	r	
		Lomita, CA 91717		2	1910073								M	
Phone #		(310) 325-9830		Destinati	Destination Laboratory	ţ,				P			eth	
Fax#		(310) 325-3627		XIClinic	IXI Glinical Laboratory	, and		ota		hosj			ane	Α.
Project		Standard Analysis		CDWR	CDWR Compliance	6 9				pho			(A)	
Sub Project		CWPF Weekly Compliance Analysis			YES		Iron	ssolve ngan	te- Or	rus- T	Color	ATE	R) (A	<i>/</i>
Comments	+		-	"	ELAP#					otal			STN	
Sampled by	by	This & Maria		_	1088			uas ——		as P			1 D1	
Date	Time	Sample Idenitification	Matrix	Type	Preserv	Total							946)	- the common
		Raw Water Site #1	MQ	1W	HCL		$\dagger$	+	+	_		$\dagger$	+	W13-005
		Raw Water Site #1	DW	1W	N/A			$\vdash$				$\dagger$	+	W13-005
$\dashv$	+							$\vdash$	-			$\dagger$	+	000.01
11 31/4/11	1175	· Filter Effluent Site (Chloramine) #3( )	DW	1W	N/A		×	×	ig		×	╁	+	F13-005A
							┢	<u> </u>	-			+	╫	1000
							l	-	╀		T	1	+	
_							L	$\vdash$	-		ľ	$\dagger$	+	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1147	Reservoir Effluent Site #5	DW	1W	N/A		T	×	1		T	$\dagger$	$\dagger$	
11 /1/1/1/1	811	Reservoir Effluent Site #5 (2)	DW	1W	HCL		T	+	_		T	  ×	+	
-							$\dagger$	+			T	+	+	
		Zone #2 Site #6	DW	1W	N/A	-	+	$\vdash$				+	╁	
				-									╁	
Drosonzein	- 100	- 1										_	-	
(5) H2	SO4 (6) N	(5) H2SO4 (6) Na2SO3 (7) Cold (8) Other:		Matrix:	DW-Drink	Matrix: DW-Drinking Water, WW-Waste Water, SW-Storm Water,	W-WN	ste W	ater,	W-St	N mic		3W- (	GW- Ground Water, A-Air
Relingui	Relinguished By (Sign)	(Sign) Print Name / Company			Date / Time	nto / Time		7-0 '11	piace	ment,			- Ke	- 1
16	1/4	7		=	) mar	2	-				ng s		+	Print Name / Company
	(	of Fo		<u>}</u>	411	1000	3	50	K	K	3		4	J-1410/01/01/01/01/01/01/01/01/01/01/01/01/0
	1	T. 1. 1000 1015		3	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	120	┨.	A	Ŋ.	X	1	M	4	KWWY CC33
Capments	ži	,			^	Samples received: Ter	ceive			<u>8</u>	対し	Enfact F	ر پ ب <del>د</del>	) Custody seals
Shipped Via		[ ] Fed X [ ] Golden State	110	l UPS	Client	1 1 Other	1			2			X	,
,				-		- I ama					ı			-rage_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

		Novembe	er 2015	
DATE	TIME	METHAN	IE HANDHELD	COMMENTS
11/1/2015				
11/2/2015	1:00 PM	CH4- 0%	Oxy- 20.9%	
11/3/2015	3:00 PM	CH4- 0%	Oxy- 20.9%	
11/4/2015	9:00 AM	CH4- 1%	Oxy- 20.8%	
11/5/2015	3:00 PM	CH4- 0%	Oxy- 20.8%	
11/6/2015				
11/7/2015				
11/8/2015				
11/9/2015	3:00 PM	CH4- 0%	Oxy- 20.9%	
11/10/2015	3:00 PM	CH4- 0%	Oxy- 20.7%	
11/11/2015				
11/12/2015	9:00 AM	CH4- 0%	Oxy- 20.8%	
11/13/2015	8:30 AM	CH4- 0%	Oxy- 20.9%	
11/14/2015				
11/15/2015				
11/16/2015	3:30 PM	CH4- 0%	Oxy- 20.8%	
11/17/2015	3:45 PM	CH4- 1%	Oxy- 20.6%	
11/18/2015	12:00 PM	CH4- 0%	Oxy- 20.9%	
11/19/2015	3:45 PM	CH4- 0%	Oxy- 20.9%	
11/20/2015				
11/21/2015				
11/22/2015				
11/23/2015	2:00 PM	CH4- 0%	Oxy- 20.9%	
11/24/2015	4:00 PM	CH4- 0%	Oxy- 20.5%	
11/25/2015	2:45 PM	CH4- 0%	Oxy- 20.9%	
11/26/2015				
11/27/2015				
11/28/2015				
11/29/2015				
11/30/2015	11:30 AM	CH4- 4%	Oxy- 20.9%	
				•

ND- Non Detect

CH4- Methane

Oxy- Oxygen

Weekend/Day Off/Holiday- Red

## **APPENDIX C**

NITRIFICATION MONITORING DATA SUMMARY

#### <sup>1</sup>MONTHLY NITRIFICATION MONITORING SUMMARY REPORT

CITY OF LOMITA, System No. 1910073 --- Month, Year: \_\_\_November 2015\_

	1 0		1	0	_			· –		_	A 111 11	A !!	2 111 2		-	
#		Sample	Location	Sample Date	Temp	рН	Total	Free	Total	Free	Nitrite	Nitrate	Coliform <sup>2</sup>	HPC	Z	Comments
	o d	I.D		(and Time)			Chlorine	Chlorine	Ammonia	Ammonia					o n	
	e														e	
		Others <del>&gt;</del>		MM/DD/YYYY	°C		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	P/A	CFU/mI		
1		S13-003	1948 W. 252 <sup>nd</sup> St	Xx:xx am/pm 11/5/2015	22	8.2	3.20	0.66	0.67	g/ <u>-</u>	0.010		A	ND	1	We///MWD Blend
2		S13-003	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		S13-004	25417 Pennsylvania Av	11/5/2015	22	8.2	3.40	0.64	0.75	-	0.010	-	-	ND	1	We///MWD Blend
4		A	2052 Dawn St	11/5/2015	23	8.4	2.80	0.49	0.65	-	0.010	-	-	40	1	We///MWD Blend
5			Reservoir	11/5/2015	22	8.0	3.30	0.70	0.72	-	0.010	-	-	ND	1	We///MWD Blend
	D	13-1	1912 W. 259 <sup>th</sup> PI	11/5/2015	24	7.8	2.00	0.36	0.40	_	0.008	-	Α	ND	2	MWD Only
7		13-1	26314 S Monte Vta.	11/5/2015	24	7.8	2.00	0.37	0.41	-	0.008	-	A	ND	3	MWD Only
8		13-5	2500 PCH	11/5/2015	23	7.8	1.80	0.33	0.39	-	0.006		A	ND	2	MWD Only
	I D	13-0	25001 011	11/0/2010	20	7.0	1.00	0.00	0.00		0.000		А	ND		WWD Only
1	D	S13-003	1948 W. 252 <sup>nd</sup> St	11/12/2015	22	8.2	2.12	0.36	0.45	-	0.003	-	Α	ND	1	We///MWD Blend
2		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
	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	_	A	2052 Dawn St	11/12/2015	22	8.2	2.16	0.36	0.47	-	0.010	-	-	ND	1	We///MWD Blend
5		,,	Reservoir	11/12/2015	23	8.2	2.16	0.50	0.43	-	0.005	-	-	ND	1	We///MWD Blend
6		13-1	1912 W. 259 <sup>th</sup> PI	11/12/2015	23	7.8	1.90	0.32	0.42	-	0.014	-	Α	ND	2	MWD Only
7		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
	D	13-5	2500 PCH	11/12/2015	23	7.8	1.70	0.33	0.38	-	0.013	_	Α	ND	2	MWD Only
_	1 5	700	2000 1 0.1								0.0.0				_	
1	D	S13-003	1948 W. 252 <sup>nd</sup> St	11/18/2015	23	7.8	2.20	0.36	0.48	-	0.005		Α	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	-	Α	28	1	We///MWD Blend
3		\$13-008	25417 Pennsylvania Av	11/18/2015	23	8.0	2.19	0.36	0.46	-	0.004	-	-	ND	1	We///MWD Blend
4		Α	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 <sup>th</sup> PI	11/18/2015	21	7.4	1.90	0.30	0.39	-	0.009	-	Α	ND	2	MWD Only
7		13-2	26314 S Monte Vta.	11/18/2015	21	7.4	2.00	0.30	0.40	-	0.018	-	Α	ND	3	MWD Only
8	D	13-5	2500 PCH	11/18/2015	21	7.6	2.00	0.29	0.39	-	0.018	-	Α	ND	2	MWD Only
				•		•										
1	D	S13-003	1948 W. 252 <sup>nd</sup> St	11/24/2015	20	8.3	2.40	0.39	0.60	-	0.005	-	Α	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	-	Α	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	Α	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 <sup>th</sup> PI	11/24/2015	20	8.0	2.30	0.32	0.40	-	0.018	-	Α	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	-	Α	ND	3	MWD Only
8	D	13-5	2500 PCH	11/24/2015	20	8.0	2.20	0.33	0.35	-	0.025	-	Α	1	2	MWD Only
1	D	S13-003	1948 W. 252 <sup>nd</sup> St												1	
2		S13-004	24632 S Moon Av												1	
3		S13-008	25417 Pennsylvania Av												1	
	D	Α	2052 Dawn St												1	
5			Reservoir												1	
6		13-1	1912 W. 259 <sup>th</sup> PI												2	
7		13-2	26314 S Monte Vta.												3	
8	D	13-5	2500 PCH												2	

<sup>1</sup>Notes: Report Due to DDW by the 10<sup>th</sup> 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).

<sup>2</sup>Coliform results are part of weekly Bacti sampling results.



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,

Stu Styles

Client Services Manager



Lomita, City ofProject:Standard AnalysisWork Order:15K202324373 Walnut AvenueSub Project:Lomita Distribution Special SampleReceived:11/24/15 15:15Lomita CA, 91717Project Manager:Mark AndersenReported:12/01/15

1948 W 252nd St		15K2023-	01 (Water)		Sample Dat	te: 11/24/15	7:30	Sampler: D	aniel 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 Dat	te: 11/24/15	8:45	Sampler: D	aniel 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 Dat	te: 11/24/15	9:00	Sampler: D	aniel Mateik
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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	



Lomita, City ofProject:Standard AnalysisWork Order:15K202324373 Walnut AvenueSub Project:Lomita Distribution Special SampleReceived:11/24/15 15:15Lomita CA, 91717Project Manager:Mark AndersenReported:12/01/15

2052 Dawn St		15K2023-0	04 (Water)		Sample Da	<b>te:</b> 11/24/15	7:20 Sa	mpler: Da	aniel Mateik
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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	2	1	500	CFU/ml	11/24/15	11/26/15	1548232	HT-08
General Chemical Analyses									
pH (Lab)	SM 4500HB	7.6		N/A	pH Units	11/24/15	11/24/15	1548152	
Reservoir Effluent Site #5		15K2023-0	05 (Water)		Sample Da	te: 11/24/15	9:15 <b>Sa</b>	mpler: Da	aniel Mateik
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	2.7		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	
HT-08 Analysis performed outside of recomm	nended 8 hour hold	time but withi	n required 24 hou	ır hold tim	e.				

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

Chain of Custody

Cum	ical La	ıborator)	Cinical Laboratory of San Bernardino, Inc	Inc.				S	15K 2023	0.5	$^{\circ}$			$\mathcal{O}$	Chain of Custody
Client			City of Lomita	Sy	stem N	System Number	*	An	Analysis		Requested	eq			
Address		24	24373 Walnut Avenue		Ç	010010									
# House		`	(310) 325-9830	•	estinati	Destination Laboratory	tory	Het		То		Ph			
Fax #		And Control of the Co	(310) 325-3627	]	X] Clinic	[X] Clinical Laboratory	tory	etro		tal					
Project			Standard Analysis		RWQCB	RWQCB Compliance	90	phi	]	Diss					
Sub Project		Lomita D	Lomita Distribution Special Sample		Ш	No ELAP#		c Plate	PH	olved S	- Orth	& Odd	trite	trate	
Comments					7	000		Cou		Solic				<del> </del>	
Sampled by			DANIEL MATEIK		`	1088		unt		ds		. <b>D</b>			
Date	Time		Sample Idenitification	Matrix	Туре	Preserv	Total Chforine	<b>,</b>		*****					Comments / P.S. Codes
														-	
11/2 4 2015	6730		1948 W. 252nd St.	MQ	D4	1,7	2.4	×							see compliance sample
11/2 4 2015			1948 W. 252nd St.	MQ	D4	NA			×						
11/242015	0845		24632 S. Moon Ave.	MQ	D4	1,7	2.5	×							
11/242015			24632 S. Moon Ave.	MQ	<b>D4</b>	NA			×						
11/2 \$2015	9263		25417 Donneylyonia Avo	DW	D4	1,7	2.2	×							
11/242015			41/ 1 Chinsylvania Ave.	DW	D4	NA			X						
11/242015	Ø22Ø	<b>.</b>	2052 Dawn St.	MQ	D4	1,7	2.20	×							
11/242015		-	2052 Dawn St.	MQ	D4	NA			×						
11/2 42015	2/130		Reservoir Effluent Site #5	DW	72	1,7	2.7	×							
11/.242015			Reservoir Effluent Site #5	DW	D4	NA			×						
		<del></del>										_			
Preservatives:	(1) Na <sub>2</sub> S <sub>2</sub> C	D, (2) HCl (3)	HNO3 (4) NH4CI		Matrix	DW-Drin	Matrix: DW-Drinking Water, WW-Waste Water. SW-Storm Water.	\ <u>\</u>	Wast	e Wat	Y. SW	-Stor	n Wa		GW- Ground Water, A-Air
(5) H2SO4 (6) Na2SO3 (7) Cold (8) Other	(6) Na2S	O3 (7) Cold (8				Type-	Type- 1-Routine,	2-Re	2-Repeat, 3-Replacement, 4-Special	-Repl	acem	ent, 4	Spec		W-Well D- Dist.
Relinquished By (Sign)	shed By	(Sign)	Print Name / Company	À		Date / Time	Time			Rec	Received By (Sign)	By (C	lgn)	\	Print Name / Company
					lj .	1124.13	515)		1	1	4		V		1
DANIEL MATEIK	Y	MRO	City of Lomita			11/24/15	11/511	7	100	28	B	1			1 be to word flow
Comments:						*	Samples received: Ter	rece	ved: ( Tem		Oirtee [s, %	) 26 26	( ) In	Intact) F	( ) Custody seals
Shipped Via			Fed X   Golden State		NPS	Client	Other		M					1	Page_1_of_1_

"Your Water and Wastewater Analysis Solution"



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,

Stu Styles

Client Services Manager



Lomita, City ofProjectStandard AnalysisWork Order:15K202224373 Walnut AvenueSub Project:Lomita Distribution Special SampleReceived:11/24/15 15:15Lomita CA, 91717Project Manager:Mark AndersenReported:12/01/15

1912 W. 259th St. (S13-001 Zone: 2)		15K2022-	01 (Water)		Sample Dat	e: 11/24/15	7:45	Sampler:	Daniel Mateik
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyze	d Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	2.3		N/A	mg/L	11/24/15	11/24/15	1549189	
Microbiology Analyses									
Plate Count	SM9215B	ND	1	500	CFU/ml	11/24/15	11/26/15	5 1548232	
General Chemical Analyses									
pH (Lab)	SM 4500HB	7.8		N/A	pH Units	11/24/15	11/24/15	1548152	
2500 Pacific Coast Highway (S13-005 Z	Zone 2)	15K2022-	02 (Water)		Sample Dat	e: 11/24/15	8:15	Sampler:	Daniel Mateik
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyze	d Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	1.9		N/A	mg/L	11/24/15	11/24/15	1549189	
Microbiology Analyses									
Plate Count	SM9215B	1	1	500	CFU/ml	11/24/15	11/26/15	1548232	
General Chemical Analyses									
pH (Lab)	SM 4500HB	7.8		N/A	pH Units	11/24/15	11/24/15	1548152	
26314 S. Monte Vista Ave. (S13-002 Zoo	ne: 3)	15K2022-	03 (Water)		Sample Dat	e: 11/24/15	8:00	Sampler:	Daniel Mateik
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyze	d Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	2.2		N/A	mg/L	11/24/15	11/24/15	1549189	
Microbiology Analyses	SM9215B	ND	1	500	CFU/ml	11/24/15	11/26/15	5 1548232	
Microbiology Analyses Plate Count General Chemical Analyses	SM9215B	ND	1	500	CFU/ml	11/24/15	11/26/15	5 1548232	

ND Analyte NOT DETECTED at or above the reporting limit

Chain of Custody

5K2027

Comments / P.S. Codes Print Name / Company Matrix: DW-Drinking Water, WW-Waste Water, SW-Storm Water, GW- Ground Water, A-Air  $Page_{-}I_{-}of_{-}I$ Type- 1-Routine, 2-Repeat, 3-Replacement, 4-Special W-Well D-Dist. )F (4C Samples received: 🖊 On ice (📉 Intact Nitrate **Nitrite** Received By (Sign) Color & Odor **Analysis Requested** 15.3 Phosphorus- Total as P Phosphate- Ortho as P **Total Dissolved Solids** PH × × ×12/5 **Hetetrophic Plate Count** × × Chlorine Total 2.3 2.2 0 11-2415 Date / Time 5)-42-11 Destination Laboratory [X] Clinical Laboratory RWQCB Compliance 20010 [ ] Client Preserv **System Number X** Ž ELAP# 1088 1,7 1,7 1,7 **X** Type **D**4 **D**4 7 **D**4 7 **D**4 | VPS |Matrix P₩ M Ω **≥** M M DW Print Name / Company | | Golden State **26314** S. Monte Vista Ave (S13-002 Zone: 2500 Pacific Coast Highway (S13-005 2500 Pacific Coast Highway (S13-005 1912 W. 259th St. (S13-001 Zone: 2) City of Lomita 1912 W. 259th St. (S13-001 Zone: 2) Lomita Distribution Special Sample Sample Idenitification 24373 Walnut Avenue Lomita, CA 91717 Standard Analysis City of Lomita Preservatives: (1) Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> (2) HCI (3) HNO<sub>3</sub> (4) NH4CI (310) 325-9830 (310) 325-3627 | | Fed X (5) H2SO4 (6) Na2SO3 (7) Cold (8) Other: Relinguished By (Sign) Ø745 11,242015 | 0815 Time DANIEL MATEIK Comments: **Sub Project** Sampled by Comments 1124/2015 11/29/2015 11/202015 11.24/2015 11 24/2015 Shipped Via Address Phone # Date Project Fax # Client

"Your Water and Wastewater Analysis Solution"



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.

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



Lomita, City ofProjectStandard AnalysisWork Order:15K173724373 Walnut AvenueSub Project:Lomita Distribution Special SampleReceived:11/18/15 15:30Lomita CA, 91717Project Manager:Mark AndersenReported: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
Field Analyses									
Cl Res Total (Field)	Field	1.9		N/A	mg/L	11/18/15	11/18/15	1547527	
Microbiology Analyses									
Plate Count	SM9215B	ND	1	500	CFU/ml	11/18/15	11/20/15	1547579	
General Chemical Analyses									
pH (Lab)	SM 4500HB	7.8		N/A	pH Units	11/20/15	11/20/15	1547545	
2500 Pacific Coast Highway (S13-005	5 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
Field Analyses									
Cl Res Total (Field)	Field	2		N/A	mg/L	11/18/15	11/18/15	1547527	
Microbiology Analyses									
Plate Count	SM9215B	ND	1	500	CFU/ml	11/18/15	11/20/15	1547579	
26314 S. Monte Vista Ave. (S13-002 Z	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
Field Analyses									
Cl Res Total (Field)	Field	2		N/A	mg/L	11/18/15	11/18/15	1547527	
Microbiology Analyses									

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

PH: See compliance semple Sample Comments / P.S. Codes Print Name / Company |5K173739| No Chain of Custody Matrix: DW-Drinking Water, WW-Waste Water, SW-Storm Water, GW- Ground Water, A-Air PH: See Compliance H-Gier Type- 1-Routine, 2-Repeat, 3-Replacement, 4-Special W-Well D- Dist. **Nitrate Nitrite** Received By (Sign) Color & Odor **Analysis Requested** Phosphorus- Total as P Phosphate- Ortho as P **Total Dissolved Solids** PH × × Hetetrophic Plate Count 0 Z.Ø Chlorine lotat 2.0 00,7/ Date / Fime Destination Laboratory [X] Clinical Laboratory RWQCB Compliance 1910073 Preserv System Number No ELAP# 1088 **V** 1,7 **V** 1,7 AZ V 15-18-15 Type 54 5 1)4 54 5 **₹** Matrix P≪ ρM A A <u></u> **≥** M 26314 S. Monte Vista Ave (S13-002 Zone: 1912 W. 259th St. (S13-001 Zone: 2) 2500 Pacific Coast Highway (S13-005 2500 Pacific Coast Highway (S13-005 1912 W. 259th St. (S13-001 Zone: 2) Lomita Distribution Special Sample DANTEL MATERK Sample Idenitification 24373 Walnut Avenue Lomita, CA 91717 Standard Analysis City of Lomita Preservatives: (1) Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> (2) HCI (3) HNO<sub>3</sub> (4) NH4CI JACON, (310) 325-9830 (310) 325-3627 (6) Np 2SO3 (7) Cold (8) Other: (Sign) 5480 £83¢ 2410 (5) H2SO4 **Sub Project** Sampled by Comments 11/18/2015 11/18/2015 11/18/2015 11/18/2015 11/18/2015 11/18/2015 Address Phone # Project Date Fax# Client

"Your Water and Wastewater Analysis Solution"

Tintact ( ) Custody seals

Samples received: ( Omrce

| | Other

| | Client

| | UPS

| | Golden State

| | Fed X

Comments:

Shipped Via



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



Lomita, City ofProject:Standard AnalysisWork Order:15K170724373 Walnut AvenueSub Project:Lomita Distribution Special SampleReceived:11/18/15 15:30Lomita CA, 91717Project Manager:Mark AndersenReported:12/01/15

1948 W 252nd St		15K1707-	01 (Water)		Sample Da	te: 11/18/15	8:00	Sampler: D	aniel Mateik
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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 Da	<b>te:</b> 11/18/15	9:15	Sampler: D	aniel Mateik
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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 Da	<b>te:</b> 11/18/15	8:15	Sampler: D	aniel Mateik
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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	



Lomita, City ofProject:Standard AnalysisWork Order:15K170724373 Walnut AvenueSub Project:Lomita Distribution Special SampleReceived:11/18/15 15:30Lomita CA, 91717Project Manager:Mark AndersenReported:12/01/15

2052 Dawn St		15K1707-0	04 (Water)		Sample Da	te: 11/18/15	7:45 <b>Sa</b>	mpler: Da	niel Mateik
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	2.18		N/A	mg/L	11/18/15	11/18/15	1547492	
Microbiology Analyses									
Plate Count	SM9215B	25	1	500	CFU/ml	11/18/15	11/20/15	1547579	HT-08
<b>General Chemical Analyses</b>									
pH (Lab)	SM 4500HB	7.7		N/A	pH Units	11/19/15	11/19/15	1547496	
Reservoir Effluent Site #5		15K1707-0	05 (Water)		Sample Da	te: 11/18/15	8:40 <b>Sa</b>	mpler: Da	niel Mateik
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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	ND	1	500	CFU/ml	11/18/15	11/20/15	1547579	
<b>General Chemical Analyses</b>									
pH (Lab)	SM 4500HB	7.7		N/A	pH Units	11/19/15	11/19/15	1547496	
HT-08 Analysis performed outside of recomme	ended 8 hour hold	time but withi	in required 24 hou	ır hold time	e.				

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

 $5/\phi/5$  (SKI707 Chain of Custody

Client	City of Lomita	Sy	System Number	umber		Analy	sis F	Analysis Requested	sted			
Address	24373 Walnut Avenue Lomita, CA 91717		191	1910073	_							
Phone #	(310) 325-9830	0	estinatic	Destination Laboratory	ory,	Hete	To		Pho			
Fax#	(310) 325-3627		X] Clinic	[X] Clinical Laboratory	ory	etro	tal			Co		*
Project	Standard Analysis		RWQCB	RWQCB Compliance	<b>0</b>							
Sub Project	Lomita Distribution Special Sample		I	No ELAP#	1	Plate	olved S ——— PH	- Orth	s- Tota	& Odo	rate trite	
Comments			7	7000		Cou	Solid			or		
Sampled by	DANTEL MATETH		_	000		ınt	ls		P			
Date	Sample Idenitification	Matrix	Туре	Preserv	Total Chlorine		_	-				Comments / P.S. Codes
11/18/2015 <b>286</b> 0	1948 W. 252nd St.	DW	D4	1,7	2.78	×	+	_		-	-	
11/18/2015	1948 W. 252nd St.	DW	D4	NA	-		×				_	
11/18/2015 16915	24632 S. Moon Ave.	DW	D4	1,7	2.05	×	_					
11/18/2015	24632 S. Moon Ave.	DW	D4	Ϋ́Z	ı		×					
11/18/2015 88/5	25417 Donneylvonia Avo	DW	D4	1,7	2.79	×						
11/18/2015	2541 / 1 Chinsylvania Avc.	DW	D4	NA	-		X					
11/18/2015 8745	2052 Dawn St.	DW	D4	1,7	81.2	×						
11/18/2015	2052 Dawn St.	DW	D4	NA	-		×					
11/18/2015 00より	Reservoir Effluent Site #5	DW	D4	1,7	5.45	×						
11/18/2015	Reservoir Effluent Site #5	DW	D4	NA	1		×					
						+-	+				+-	
Preservatives: (1) N	Preservatives: (1) Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (2) HCI (3) HNO3 (4) NH4CI		Matrix:	DW-Drink Type- 1	ing Water,	WW-W	aste V	later, S	W-Sto	4-Sne	ater, G	Matrix: DW-Drinking Water, WW-Waste Water, SW-Storm Water, GW- Ground Water, A-Air Tyne- 1-Routine 2-Repeat 3-Replacement 4-Special W-Well D. Dist
Relinguished By (Sign)	(Sign) Print Name / Company	2		Date / ]	Time			Received By (Sign)	d Bv	(Sign)		Print Name / Company
D Resident	۲			21.01	17.35	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	(	(				
Gun	City of Lomita		1/2	18-151	-1		忧	K)	*			7- WILLIAM 1618B
Comments:					Samples received	eceiv		<b>Ž</b>	nice 🖯		Intact	t ( ) Custody seals
Shipped Via	Fed X     Golden State	-	I VPS	Client	Other						•	Page 1 of 1

"Your Water and Wastewater Analysis Solution"



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,

Stu Styles

Client Services Manager



Lomita, City ofProjectStandard AnalysisWork Order:15K118924373 Walnut AvenueSub Project:Lomita Distribution Special SampleReceived:11/12/15 12:25Lomita CA, 91717Project Manager:Mark AndersenReported:11/24/15

1948 W 252nd St		15K1189-0	01 (Water)		Sample Date	: 11/12/15	7:58 <b>S</b> a	impler: D	GM / DH
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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		15K1189-0	02 (Water)		Sample Date	: 11/12/15	7:30 Sa	mpler: D	GM / DH
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Microbiology Analyses									
Plate Count	SM9215B	290	1	500	CFU/ml	11/12/15	11/14/15	1546625	HT-08
25417 Pennsylvania Ave.		15K1189-0	03 (Water)		Sample Date	: 11/12/15	9:25 Sa	impler: D	GM / DH
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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	
<b>General Chemical Analyses</b>									
pH (Lab)	SM 4500HB	7.7		N/A	pH Units	11/13/15	11/13/15	1546557	
2052 Dawn St		15K1189-0	04 (Water)		Sample Date	: 11/12/15	6:58 <b>S</b> a	mpler: D	GM / DH
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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
<b>General Chemical Analyses</b>									
pH (Lab)	SM 4500HB	7.7		N/A	pH Units	11/13/15	11/13/15	1546557	



Lomita, City ofProjectStandard AnalysisWork Order:15K118924373 Walnut AvenueSub Project:Lomita Distribution Special SampleReceived:11/12/15 12:25Lomita CA, 91717Project Manager:Mark AndersenReported:11/24/15

Reservoir	Effluent Site #5		15K1189-0	05 (Water)		Sample Da	te: 11/12/15	9:40 <b>Sa</b>	mpler: Do	GM / DH
Analyte		Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Anal	<u>yses</u>									
Cl Res To	otal (Field)	Field	2.16		N/A	mg/L	11/12/15	11/12/15	1547008	
Microbiolo	ogy Analyses									
Plate Cour	nt	SM9215B	ND	1	500	CFU/ml	11/12/15	11/14/15	1546625	
General C	hemical Analyses									
pH (Lab)		SM 4500HB	7.8		N/A	pH Units	11/13/15	11/13/15	1546557	
HT-08	Analysis performed outside of recom	mended 8 hour hold	time but with	in required 24 hor	ur hold tim	e.				
	pH (Lab) was analyzed ASAP but rec	eived and analyzed p	ast the 15 mi	nute hold time.						
ND	Analyte NOT DETECTED at or above	e the reporting limit								

Clinical Laboratory of San Bernardino, Inc.

Client		City of Lomita	Sys	ystem Number	ımber		Inaly	<b>Analysis Requested</b>	sanba	ted				
Address		24373 Walnut Avenue		707	0072					_	_	_		
	7	Lomita, CA 91717	•	<u>0</u>	0/00/61		1					<del></del>		
Phone #		(310) 325-9830	ã	estination	Destination Laboratory		Hete	То	Ph	Pho		J. W	•	
Fax#		(310) 325-3627	d	(] Clinica	[X] Clinical Laboratory		etro	tal	ospl				0/0/4	b
Project		Standard Analysis		WQCB C	RWQCB Compliance				hate				7070	<u></u>
Sub Project	5	Lomita Distribution Special Sample			No ELAP#		PH ——— c Plate	solved S	- Orth	ıs- Tota	trite & Ode	trate		
Comments	ø			7	000		Coi	Solic	o as		0 P			
Sampled by	by	By MIDH		=	1088		unf	ds	P	s P				-
Date	Time	Sample Idenitification	Matrix	Type	Preserv	Total Chlorine							Comments / P.S.	P.S. Codes
11/12/2015	7554	1948 W. 252nd St.	DW	D4	1,7	2.12	×		٠					
11/12/2015	1:584·	1948 W. 252nd St. +	DW	D4	NA	1				-			See weekly	. compliance
11/12/2015	7:30AM	24632 S. Moon Ave.	DW	D4	1,7		×					ļ		1
11/12/2015		24632 S. Moon Ave. *	ΜQ	D4	AN	ı				-			se veekh	compliance
11/12/2015	9:25AM	25417 Donneylyonio Avo	MQ	D4	1,7	2.19	×							
11/12/2015		2341/ 1 Chinsylvania Avc.	DW	D4	NA	1	`	X						
11/12/2015 J.SKAN	U.SSAM	2052 Dawn St.	DW	D4	1,7	2.16	X							
11/12/2015 6:58Am	6:58A	2052 Dawn St.	DW	D4	NA	ı	_	×						
11/12/2015	9:40h	Reservoir Effluent Site #5	MQ	D4	1,7	2.16	×			-				
11/12/2015		Reservoir Effluent Site #5	DW	D4	NA	1	^	×						
Preservative	S: (1) Na	Preservatives: (1) Na,S,O <sub>3</sub> (2) HCl (3) HNO3 (4) NH4Cl		Matrix: 1	DW-Drink	ing Water, M	W-W	ste Wa	iter. SV	V-Stor	m Wat	fer. GV	Matrix: DW-Drinking Water, WW-Waste Water. SW-Storm Water. GW- Ground Water. A-Air	A-Air
(5) H2S	SO4 (6) N				Type- 1	-Routine, 2-I	Repea	t, 3-Re	olacem	ent, 4	-Speci	al W-	Type- 1-Routine, 2-Repeat, 3-Replacement, 4-Special W-Well D- Dist.	
Relingu	Relinguished By (Sign)	v (Sign) Print Name / Company	4		Date / Time	Time IL	त्रि	×	Regeived By (Sign)	L.B.y. (.	Sign)		Ring Name	Company
) W	"LL	CCSB		n'	112/15	3	<b>—</b>	X	4	1				120
DAMIE	五八八	ルチブモエバ City of Lomita		71-11	121-	12:2	7		<b>U</b>	3			CCSB	
Comments:	<b>ts</b> :				<b>0</b> 1	Samples received: ( ) On ice	ceive	γ) :p	) On i	ee 💢	7	+ Intact	( ) Custody seals	seals
							,	Temp	2	ار،		조 (소	) C	
Shipped Via			=	UPS	Client	Other							$Page_{-}I_{-}of_{-}$	1_
* PPC 14	MHP	Parties for this analysis in week	-	conpliquel	Jec.d	St.	1/2							

THE OF WITHERS, PER DOD SHOW IN TOUR Water and Wastewater Analysis Solution"



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,

Stu Styles

Client Services Manager



Lomita, City ofProjectStandard AnalysisWork Order:15K117924373 Walnut AvenueSub Project:Lomita Distribution Special SampleReceived:11/12/15 12:35Lomita CA, 91717Project Manager:Mark AndersenReported:11/23/15

1912 W. 259th St. (S13-001 Zone: 2	)	15K1179-0	01 (Water)		Sample Da	ate: 11/12/15	8:16	Sampler:	Daniel Mateik
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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
<b>General Chemical Analyses</b>									
pH (Lab)	SM 4500HB	7.8		N/A	pH Units	11/12/15	11/12/15	1546538	
2500 Pacific Coast Highway (S13-0	05 Zone 2)	15K1179-0	02 (Water)		Sample Da	ate: 11/12/15	9:00	Sampler:	Daniel Mateik
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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)	15K1179-0	03 (Water)		Sample Da	ate: 11/12/15	8:35	Sampler:	Daniel Mateik
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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 r	recommended 8 hour hold	time but with	in required 24 hor	ar hold time	e.				
pH (Lab) was analyzed ASAP b	out received and analyzed	past the 15 mi	nute hold time.						

ND

Analyte NOT DETECTED at or above the reporting limit

120
XX

Client	City of Lomita	Syste	System Number		Analy	Analysis Reguested	Hoefo	τ.				
Address	24373 Walnut Avenue	•	10070				3 2 2 2	3				
•	Lomita, CA 91717		1910073	<b>~</b>								
Phone #	(310) 325-9830	Desti	Destination Laboratory	atorv	Het						-	٨
₽3× **	(310) 325-3627	Z X	[X] Clinical Laboratory	atorv	tetr						) - `	
Project	Standard Analysis	RWC	RWQCB Compliance	nce		Dis				N		
Sub Project	Lomita Distribution Special Sample		No FIAP#		PH ic Plat	solved	us- To e- Ort	r & O	litrite	litrate		
Comments					e Co				<del>-</del>			
Sampled by	DUM/WH		1088									
Date Time	Sample Idenitification	Matrix Type	pe Preserv	Total Chlorine					<u> </u>		Comments / P.S. Codes	P.S. Codes
11/12/2015 4:162	- 1	+	-	•								
$\overline{}$	6.1(6. a. 1912 W. 259th St. (\$13-001 20ne: 2)		+	.:	×		1		1			
_	2500 Pacific Coast Highway (\$13-005	DW D4	A L	1 7	×		+			$\dashv$		
	2500 Pacific Coast Highway (S13-005	+	+	-	< ×		-		+	-		
	5:354 26314 S. Monte Vista Ave (S13-002 Zone:	DW D4	-	6./	×		+			-		
11/12/2015	3)	DW D4			×				╁	+		
							-					
					-							
					_							
	,				+		-					
Preservatives: (1) Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (2) HCl (3) HNO <sub>3</sub>	S <sub>2</sub> O <sub>3</sub> (2) HCI (3) HNO3 (4) NH4CI	Mat	rix: DW-Drin	Matrix: DW-Drinking Water, WW-Waste Water SW Storm Mater	/W-Was	Wafer	- SIN S					
(5) H2SO4 (6) Na.	=		Туре-	Type- 1-Routine, 2-	Repeat,	2-Repeat, 3-Replacement. 4-Special	cement	4-Spe		ישי- קין ע-וויי	GW- Ground Water, A-Air W-Well D. Diet	4-Air
Relinguished By (Sign)	(Sign) Print Name / Company		Date /	Time		Rece	Received By (Sign.	Sien			Print Name	
MCK	C(J)	7)	1/2/	中午	7 =							South Services
DANTEL MA	タルモエ人 City of Lomita	11/2	151-21	12.35	2	Z	R			1		
Comments:				Samples received: ( ' ) On ice	ceived:	(۶)	n ice	X	Intact		Custody seals	seals
Shipped Via	Fed X     Golden State	Sd/III	-   Cliont	1	Le	Temp	3		£			
	1									<i>d</i>	Page_1_ of_1	

"Your Water and Wastewater Analysis Solution"



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,

Stu Styles

Client Services Manager



Lomita, City ofProjectStandard AnalysisWork Order:15K045524373 Walnut AvenueSub Project:Lomita Distribution Special SampleReceived:11/04/15 14:30Lomita CA, 91717Project Manager:Mark AndersenReported:11/10/15

1948 W 252nd St		15K0455-	01 (Water)		Sample Da	nte: 11/04/15	7:45 S	<b>ampler:</b> D	G M
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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 Da	nte: 11/04/15	9:25 S	ampler: D	G M
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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 Da	nte: 11/04/15	8:00 S	ampler: D	G M
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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	



Lomita, City ofProject:Standard AnalysisWork Order:15K045524373 Walnut AvenueSub Project:Lomita Distribution Special SampleReceived:11/04/15 14:30Lomita CA, 91717Project Manager:Mark AndersenReported:11/10/15

2052 Dawn St		15K0455-0	04 (Water)		Sample Da	ite: 11/04/15	7:30 <b>Sa</b>	mpler: D	G M
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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		15K0455-0	05 (Water)		Sample Da	ite: 11/04/15	9:45 <b>Sa</b>	mpler: D	G M
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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 recomm	mended 8 hour hold	time but with	in required 24 hor	ur hold tim	e.				

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

5|\$|5 |5KOH55 Chain of Custody

Clinical Laboratory of San Bernardino, Inc.

Client	City	City of Lomita	કે	rstem N	System Number		Ana	Analysis R	Requested	sted			
Address	24373 W	24373 Walnut Avenue		Ò	040072								
	Lomit	Lomita, CA 91717	_	7		^	]						
Phone #	(310)	(310) 325-9830		Destinati	Destination Laboratory	tory	Hete	То	-	Pho		<del></del>	
Fax#	(310)	(310) 325-3627		[X] Clinic	[X] Clinical Laboratory	itory	etro	tal		ospł			
Project	Standa	Standard Analysis		RWQCB	RWQCB Compliance	J.Ce	phi			ıoru			
Sub Project	Lomita Distribu	Lomita Distribution Special Sample			No		c Pla	solve  PH	e- Or	ıs- T	itrite & C	trate	
		$r_{L}$		ш	ELAP#		ite	d S		ota		-	
Comments				7			Coı	Solic		ıl as	r		
Sampled by	RA	lm,			1088		unt	ds ——		P			
Date Tir	Time Sample I	Sample Idenitification	Matrix	Type	Preserv	Total Chlorine							Comments / P.S. Codes
3/1-X 210C/F/11		147 AFA. 3 CA	į	1		69	>						
JA C107/1-11			ă A	47	1,'	(1,1)	<b>₹</b>	+	-	T	+	-	
11,4/2015 \$745		1948 W. 252nd St. (1)	DW	D4	NA	١		×					
11,4/2015 68925		24632 S. Moon Ave.	DW	D4	1,7	1.60	×						
11/4/2015 8928		24632 S. Moon Ave. (1)	DW	D4	N A	١		X					
11.4/2015 6866		25417 Donneylyonia Avo	MQ	D4	1,7	200	×						
11/4/2015 8860		(1)	DW	D4	NA	١		×					
11/4/2015 <b>Ø73Ø</b>		2052 Dawn St.	DW	D4	1,7	1.75	×						
11/4/2015 6736		2052 Dawn St. ([)	DW	D4	A A	١		×					
11 4/2015 8545		Reservoir Effluent Site #5	DW	D4	1,7	2.75	×				_		
11/4/2015 8945	Reservoir Effluent	Effluent Site #5	DW	D4	Y Y	١		×					
								+					
Preservatives:	Preservatives: (1) $Na_2S_2O_3$ (2) HCI (3) HNO3 (4) NH4CI	NO3 (4) NH4CI		Matrix	: DW-Drin	king Water,	WW-V	Vaste M	/ater, S	W-Sto	rm Wa	ter, GV	Matrix: DW-Drinking Water, WW-Waste Water, SW-Storm Water, GW- Ground Water, A-Air
(5) H2SO4	(5) H2SO4 (6) Na2SO3 (7) Cold (8) Other:	Other:			Туре-	Type- 1-Routine,	2-Rep	2-Repeat, 3-Replacement, 4-Special	eplace	nent,	t-Spec		W-Well D- Dist.
Sign	وساط	Print Nange / Company	È,		Date / Time	Time			Received		By (Sign)	1	Print Name / Company
14×	10 - J	MCONO CUSB		-//	1SJ-h	2:30		1	2	A	V	1	F. S. S.
Mahiel	mil.	5		11-4-	1-151	12:15				7	X		J. Lucillo CUSR
Comments:						Samples received: Te	recely	Tem of	₹ <u>~</u>	جَبِّ		Intact (	( ) Custody seals
Shipped Via	111	Fed X     Golden State		UPS	Client	Other							Page_1_ of_1_

"Your Water and Wastewater Analysis Solution"



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,

Stu Styles

Client Services Manager



Lomita, City ofProject:Standard AnalysisWork Order:15K045324373 Walnut AvenueSub Project:Lomita Distribution Special SampleReceived:11/04/15 14:30Lomita CA, 91717Project Manager:Mark AndersenReported:11/10/15

1912 W. 259th St. (S13-001 Zone: 2)		15K0453-	01 (Water)		Sample Dat	<b>te:</b> 11/04/15	8:45 Sa	ampler: D	G M
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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 Zo	ne 2)	15K0453-	02 (Water)		Sample Date	<b>te:</b> 11/04/15	8:30 Sa	ampler: D	G M
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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 Da	<b>te:</b> 11/04/15	8:55 <b>S</b> a	ampler: D	G M
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
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 recei	ved and analyzed	past the 15 mi	nute hold time.						

ND Analyte NOT DETECTED at or above the reporting limit

3 | 4 | 3 Chain of Custody

Client		City of Lomita	Sys	tem N	System Number		Ana	Analysis Requested	Seque	sted					
Address		24373 Walnut Avenue		707	2700			-				_			
		Lomita, CA 91717	•	2	1910013	_	]								
Phone #		(310) 325-9830	ă	stinatic	Destination Laboratory	tory	Het	10		Pho					
Fax#		(310) 325-3627	2	() Clinic	[X] Clinical Laboratory	tory	etro	tal		ospl	C				
Project		Standard Analysis	4	WQCB	RWQCB Compliance	93(	phi			horu			Ni		
Sub Project	7	Lomita Distribution Special Sample		<u>u</u>	No ELAP#		c Plate	olved PH	- Orth	ıs- Tot	& Od	trite	trate		
Comments				•	6		Co	Solic		al as	or				
Sampled by		mko			1088		unt	ds ——		s P					
Date Ti	Time	Sample Idenitification	Matrix	Туре	Preserv	Total Chlorine			······································					Comments / P.S. Codes	
11/4/2015		1912 W. 259th St. (S13-001 Zone: 2)	DW	D4	1,7	1.2	×		<i>*</i>						
11/4/2015	3845	1912 W. 259th St. (S13-001 Zone: 2)	DW	D4 (	VN (	2.1		×						-	T
11/4/2015	0880	2500 Pacific Coast Highway (S13-005	DW	D4	1,7	7.95	×								
11/4/2015	Ø83Ø	2500 Pacific Coast Highway (S13-005	DW	D4 (	() NA	561		X							
11/4/2015	<b>BSSS</b> 20	26314 S. Monte Vista Ave (S13-002 Zone:	DW	D4	1,7	2.6	X								
11/4/2015	ORSS	3)	DW	D4	V)NA	2.0		×							i.
					ر										
															ľ
	,														
		•													
								+-	-				-		
Preservatives: (1	(1) Na <sub>2</sub> S <sub>2</sub> C	Preservatives: (1) Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (2) HCI (3) HNO3 (4) NH4CI		Matrix:	DW-Drin	Matrix: DW-Drinking Water, WW-Waste Water, SW-Storm Water,	WW-N	/aste V	Vater,	SW-St	orm W		GW- G	GW- Ground Water, A-Air	
(5) H2SO4	(6) Na2S	(5) H2SO4 (6) Na2SO3 (7) Cold (8) Other:			Туре-	Type- 1-Routine,	2-Repe	2-Repeat, 3-Replacement, 4-Special	eplace	ment,	4-Spe	cial	<i>N-Well</i>	W-Well D- Dist.	
Relinfinds Rod By (Sign)	Rd By (S	lign) Print Namq/Company	2		Date /	,Time			Received By	ed By	(Sign)	\	· · · · · · ·	Print Name / Company	
	Tho	- SLAVENOLUCK		11-4	151-	2:30		8	6	7	1	V		F. Kulsi (	
Saheil	Joyla	City of 1		11-4	11.51	12:15		7		1/1			17	. Willele oug	
Comments:						Samples received:	receiv	Tem X		رة ئارچ	$\widehat{\mathscr{A}}$	Intact ) F	~ X	) Custody seals C	
Shipped Via		Fed X     Golden State		UPS	Client	Other						١.		Page_1_of_1_	Ī
															1

"Your Water and Wastewater Analysis Solution"