CITY OF LOMITA



Cypress Water Production Facility Monthly Status Report

September 2015

TABLE OF CONTENTS

COVER LETTER	. 1
A. BACKGROUND	2
B. WELL PRODUCTION AND OPERATIONS	2
C. OPERATIONAL INTERRUPTIONS	2
D. SAMPLE LOCATIONS	2
E. WATER QUALITY MONITORING	. 3
E1. IRON, MANGANESE AND COLOR	. 3
E2. FREE AND TOTALCHLORINE RESIDUALS	. 3
E3. TOTAL DISSOLVED SOLIDS (TDS), ODOR, HARDNESS AND METHANE	.3
E3-1 TOTAL DISSOLVED SOLIDS (TDS)	. 3
E3-2 HARDNESS	. 3
E3-3 DISSOLVED MATHANE (IN WATER)	.4
E3-4 METHANE (IN AIR)	.4
E4. NITRIFICATION MONITORING	.4
F. TABLES	. 5

CITY COUNCIL

HENRY SANCHEZ JR.

JIM GAZELEY

MICHAEL G. SAVIDAN

BEN TRAINA

MARK WARONEK



ADMINISTRATION

STEPHEN BURRELL INTERIM CITY MANAGER

October 8, 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

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

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 September 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 September 2015, the CWPF operated on a fill and draw cycle providing blended water with the reservoir level fluctuating with system demand. The Cypress Reservoir filled and drew for approximately 21 days and 9 days, respectively. The Cypress Reservoir effluent valve was closed the last two days of September 2015 in preparation for free chlorination of Zone I. The total production from Well No. 5 for the month was approximately 46.14 ac-ft (15,034,822 gallons) with a daily production of approximately 2.20 ac-ft. The total combined production from both MWD import water and Well No. 5 was approximately 110.17 ac-ft (35,896,810 gallons) for the month with a combined daily production of approximately 5.25 ac-ft.

The daily average flow from Well No. 5 was 417 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 42% Well water and 58% MWD water.

C. OPERATIONAL INTERRUPTIONS

The Cypress Reservoir was isolated on September 29, 2015 and September 30, 2015 in preparation for free chlorination of Zone I. MWD served Zone I during the two days. Routine and preventive maintenance was performed on various pieces of equipment as-needed.

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 in the raw water (SP1) for the month was below the Maximum Contaminant Level (MCL). Iron concentration in the raw water (SP1) was above the MCL. Manganese concentration in the raw water (SP1) was also 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. The CWPF was isolated on September 29, 2015 and September 30, 2015 in preparation for free chlorination of Zone I. MWD supplied Zone I during this short timeframe.

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 694 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 690 mg/L and 680 mg/L, respectively.

E3-2 HARDNESS

The sampling results for the month of September indicate the hardness levels of the blended water to be 310 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 0.57 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 September 2015 in Appendix B.

E4. NITRIFICATION MONITORING

See attached Nitrification Monitoring Data Summary Report for the month of September 2015 in Appendix C. Daily Nitrification was submitted separately starting September 21, 2015.

F. TABLES

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

		SP1, W	ell Raw	Water	Disch	narge		Pres	Com Ssure Efflue		SP		r chlora er; rese		ion stat ntry	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
9/2/2015										K	ND	300	ND	50	ND	15
9/9/2015											ND	300	ND	50	ND	15
9/16/2015	330	300	120	50	10	15	Α	А	Α	500	ND	300	ND	50	ND	15
9/23/2015											ND	300	ND	50	ND	15
9/30/2015											ND	300	ND	50	ND	15

Notes: Monthly- Orange

Weekly- Yellow

A – Absent

ND – Non Detect

*Per the SWRCB Drinking Water "Chemicals and Contaminants in

Drinking Water" Regulations

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

Data week of	SP2	S	P3	SP4		SP5
Date, week of	Free CI	Free CI	Total CI	Free CI	Total CI	MCL= 4 mg/L
9/2/2015	19.74	7.18	13.68	0.69	3.41	4
9/9/2015	21.81	4.83	12.51	0.77	3.16	4
9/16/2015	22.00	1.70	14.18	0.64	3.27	4
9/23/2015	22.86	5.44	10.44	0.77	3.08	4
9/30/2015**	12.16	12.08	x**	5.05	x**	4

**CWPF Isolated on 9/29/15 and 9/30/15 in preparation of free chlorination.

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

		TD	S, mg/l		T.C	N.		rdness, mg/L	5.6	
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		SP5 - Reservoir Effluent
9/2/2015		I was	730	500-750			310	180-250		0.30***
9/9/2015			710	500-750						0.66
9/16/2015	690	680	580	500-750	1	3			5.6	0.78
9/23/2015			680	500-750					100	0.69
9/30/2015			770	500-750						0.40
Average			694				210 th 170			0.57

Notes: Monthly- Orange ppm – parts per million

Weekly- Yellow

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 ***Methane resampled on 9/29/15. Initial result read 49 mg/L which City determined to be an error.

APPENDIX A

LABORATORY RESULTS



16 September 2015 Clinical Lab No.: 15I0407

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

Project Name: Standard Analysis Sub Project: Weekly Compliance

Enclosed are the results of the analyses for samples received at the laboratory on 09/02/15 . 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:151040724373 Walnut AvenueSub Project:Weekly ComplianceReceived:09/02/15 16:15Lomita CA, 91717Project Manager:Mark AndersenReported:09/16/15

Filter Effluent Site #3		15I0407-0	1 (Water)		Sample Dat	e: 09/02/15	9:55 S	ampler: Edward Duvivi
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch Qualifier
General Physical Analyses								
Apparent Color	SM 2120B	ND	3.0	15	Color Units	09/03/15	09/03/15	1536570
<u>Metals</u>								
Iron (Fe)	EPA 200.7	ND	100	300	ug/L	09/09/15	09/10/15	1537104
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	09/09/15	09/10/15	1537104
Reservoir Effluent Site #5		15I0407-0	2 (Water)		Sample Dat	e: 09/02/15	9:58 S	ampler: Edward Duvivi
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch Qualifier
General Chemical Analyses								
Total Filterable Residue/TDS	SM 2540C	730	5.0	1000	mg/L	09/03/15	09/04/15	1536410
ND Analyte NOT DETECTED at or ab	ove the reporting limit	Ī						

EDT Transfer Confirmation 1



Work Order: 15I0407 Report Date: 09/16/2015

Analyzing Lab: Clinical Laboratory of San Bernardino, Inc. ELAP 1088

System: 1910073 LOMITA-CITY, WATER DEPT. User ID: 4TH WELL 05 TREATMENT PLANT EFFLUENT Station No.: 1910073-006 Sampled: 150902 09:55 Units: UNITS Entry No.: 00081 Analyzed: 150903 Result: ND Entry No.: 01045 Analyzed: 150910 IRON Result: ND Units: UG/L MANGANESE Entry No.: 01055 Analyzed: 150910 Result: ND Units: UG/L



Analytical Laboratory Service - Since 1964

Report Date: 09/15/15 14:57 Received Date: 09/04/15 10:20 Turnaround Time: 5 workdays

Phones: (909) 825-7693 **Fax:** (909) 825-7696

P.O. #:

Project: 1510407

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 9/4/2015 with the Chain of Custody document. The samples were received in good condition, at 2.8 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Lab ID: 5I04024-01	Sample	ID: I	Reservoir E	ffluent Site	#5/ 151	0407-02			Ma	trix: Water
Sampled by: Client	Sampled	i: 09/02/	15 09:58							
Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Methane	49		0.010	mg/l	1	RSK-175	9/11/15	9/11/15 18:24	W5I0644	E-01



Quality Control Section

Dissolved Gases in Water by RSK-175 - Quality Control

Blank (W5I0644-BLK1)					Prepared: 09	/11/15 An	alyzed: 09/1	L/15 17:24	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		ND		mg/l					
LCS (W510644-BS1)					Prepared: 09	/11/15 An	alyzed: 09/1	L/15 18:04	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.200		mg/l	0.198	101	85-115		
Calibration Check (W5I0644-CCV1)					Prepared: 09	/11/15 An	alyzed: 09/1	L/15 17:44	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.00713		mg/l	0.00792	90	50-150		
Calibration Check (W5I0644-CCV2)					Prepared: 09	/11/15 An	alyzed: 09/1	L/15 19:43	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.192		mg/l	0.198	97	85-115		
Duplicate (W5I0644-DUP1)	s	ource: 5I11022	-01		Prepared: 09	/11/15 An	alyzed: 09/1	L/15 19:03	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane	0.661	0.653		mg/l			·	1	20



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:

E-01 The concentration indicated for this analyte is an estimated value above the calibration range.

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

5104024 Page 3 of 3

SUBCONTRACT ORDER

Clinical Laboratory of San Bernardino

15I0407

5104024

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	
Please email results to Project Manager: Stu Styles	
[] glaubig@clinical-lab.com [] ybarra@clinical-lab.	.com [V] styles@clinical-lab.com [] cole@clinical-lab.com
California EDT transfer those samples with PS co	odes provided [] Yes [V No
	, L J L + 3/
Transfer File requested; log in with Element ID o	only [] Yes [v] No
California EDT transfer those samples with PS contransfer File requested; log in with Element ID of Turn Around Time [110 Days [1/5 Days [1/5]]]	
Transfer File requested; log in with Element ID of Turn Around Time [] 10 Days [\$\sqrt{5}\$ Days [] Subcontract Comments:	
Turn Around Time [] 10 Days [√5 Days []	
Turn Around Time [] 10 Days [√5 Days []	
Turn Around Time [] 10 Days [√5 Days []	
Turn Around Time [] 10 Days [√5 Days [] Subcontract Comments:	Other Days
Turn Around Time [] 10 Days [√5 Days [] Subcontract Comments:	Other Days Comments Sampled: 09/02/15 09:58 PS Code:
Turn Around Time [] 10 Days [√5 Days [] Subcontract Comments: Analysis	Other Days Comments Sampled: 09/02/15 09:58 PS Code: Water WTX ID:
Turn Around Time [] 10 Days [\$\sqrt{5}\$ Days [] Subcontract Comments: Analysis Sample ID: Reservoir Effluent Site #5 / 1510407-02	Other Days Comments Sampled: 09/02/15 09:58 PS Code; Water WTX ID: UCMR ID:
Turn Around Time [] 10 Days [\$\sqrt{5}\$ Days [] Subcontract Comments: Analysis Sample ID: Reservoir Effluent Site #5 / 1510407-02	Other Days Comments Sampled: 09/02/15 09:58 PS Code: Water WTX ID:
Turn Around Time [] 10 Days [√5 Days [] Subcontract Comments: Analysis	Other Days Comments Sampled: 09/02/15 09:58 PS Code; Water WTX ID: UCMR ID:

09/04/B 08:30

Date / Time

Received By

Date / Time

 $\phi/\phi/3$ 1510407 Chain of Custody

Client		City of Lomita	Sy	System Number	umber	,	Analysis	sis Re	Reduested	ted			
Address		24373 Walnut Avenue		107	10072					-	-		
		Lomita, CA 91717		20	0.00181						Me	Met	
Phone #	#	(310) 325-9830	ב	estinatic	Destination Laboratory	tory		То	N		thai	han	
Fax#		(310) 325-3627		X] Clinic	[X] Clinical Laboratory							ie (
Project	t	Standard Analysis		срнр с	CDHP Compliance						WA olor	AIR	
Sub Project	oiect	Wookly Complianco			YES		Haro Alka	solve	ne.			R) (A	
	3006	The sample and the same and the		団	ELAP#				s (2)		R)	ST	
Comments	ents			•							(RS	MI	
Sampled by	ed by	Edward Duvivier		-	1088			is			K17	D194	
Date	Time	Sample Idenitification	Matrix	Type	Preserv	Total Chlorine					5)	(6)	
		Raw Water Site #1	MQ	MΙ	N/A								
		Raw Water Site #1	DW		2,7								
3/21/6	0955	Filter Effluent Site # 1	DW	WI	N/A	-			×	X			
		,											
		Zone #2 Site #6	DW	q1	N/A		·						
317716	0957	Reservoir Effluent Site #5 (()	DW	10	N/A			×					
5117/2	S 5 13	Reservoir Effluent Site #5 (2)	DW		2,7						×		
		Beservoir Headsnace Level	Air	MI	N/A								
		1					_						
Preservatives:	atives: (1	tives: (1) Na ₂ S ₂ O ₃ (2) HCI (3) HNO3 (4) NH4CI		Matrix:	DW-Drink	Matrix: DW-Drinking Water, WW-Waste Water, SW-Storm Water,	WW-Waste Water, SW-Storm Water,	ste Wa	ter, SV	V-Stor	m Wate		GW- Ground Water, A-Air
9	#067L) cold			l Jbe- I	me,	nedeu.	, 3-ref		em, 4	-Specie		Well D-Dist.
Relin	quished	Rollinguished By (Sign) Print Name / Company			Date / Time	'ime		Reg	teiv	dBy (Sign)	Sign)		Print Name / Company
3		Fliscal Provider		9/2/201	12015	[200]	7	#	X				JUMM/(US)
		M 5/2/18/00/1/5/5		9-2-	15/6	7.15	4		R		1	$\sqrt{}$	M Mussy Cers
Сопиментя	ents:			-	<i>S</i> 2	Samples received: Kon ice	eeivec T		δn. .i. δ	3,	$\frac{2}{3}$	Intact	() Custody seals
Shipped Via	Via	Fed X Golden State	=	UPS [Client	[] Other		-dmp	0			*	Puge_1_ of_1_

"Your Water and Wastewater Analysis Solution"



14 September 2015 Clinical Lab No.: 15I0284

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 09/02/15 . 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:151028424373 Walnut AvenueSub Project:CWPF Weekly Non-Comp AnalysisReceived:09/02/15 16:15Lomita CA, 91717Project Manager:Mark AndersenReported:09/14/15

Reservoir Effluent Site #5		15I0284-0	1 (Water)		Sample Date	09/02/15	9:58	Sampler:	Edward Duvivier
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Hardness, Total (as CaCO3)	Calculated	310	6.6	N/A	mg/L	09/04/15	09/05/15	[CALC	
Ortho-Phosphate (as P)	HACH 8048	0.34	0.0067	N/A	mg/L	09/03/15	09/03/15	1536490)
Phosphorus (Total as P)	HACH 8190	0.50	0.0067	N/A	mg/L	09/04/15	09/04/15	1536508	3
Metals									
Calcium (Ca)	EPA 200.7	81	1.0	N/A	mg/L	09/04/15	09/05/15	1536548	3
Magnesium (Mg)	EPA 200.7	27	1.0	N/A	mg/L	09/04/15	09/05/15	1536548	3
ND Analyte NOT DETECTED at or al	ove the reporting limit								

Clinical	Clinical Laboratory of San Bernardino,	I								D	6 1		DIOLOZOY Chain of Custody	5 ¢
Client	City of Lomita	Sys	tem N	System Number		Analysis	sis F	Rednested	sted					
Address	24373 Walnut Avenue		101	1010073							\vdash	_		
	Lomita, CA 91717		3	0010		1 (, ar-					Mot		
Phone #	(310) 325-9830	De	stinatio	Destination Laboratory	ory	otal			Pho			hon		
Fax#	(310) 325-3627	×] Clinica	[X] Clinical Laboratory	cuc				ospł			. (
Project	Standard Analysis		SDHP C	CDHP Compliance					noru			AID		
Sub Project	CWPF Wooth Non Course Andreis			No		less Alka			1 s- 7	& (
nosio I ano	Chrit Weenly Ivon-Comp. Analysis		П	ELAP#			-		Γota			ST		
Comments	4		7	4000		CaC	Solid	o as	ılas		M E	·м г		
Sampled by	Elwan DWN			000		.03)			P			104		
Date Time	Sample Idenitification	Matrix	Type	Preserv	Total Chlorine	•							Comments / P.S. C	Codes
								ļ			-			
	Raw Water Site #1	DW	1W	N/A										
•	Filter Effluent Site #3	DW	1W	N/A										
	Reservoir Influent Site #4	DW	<u>≽</u>	N/A			_	•						
-							\dashv	_			+			
25 po 51/2/5	Reservoir Effluent Site #5 ()	DW	<u>≽</u>	N/A			×	×	×		\dashv			
	,					_	\dashv	_		\dagger				
	Zone #2 Site #6	DW	<u>≥</u>	N/A			+			1	\dashv	\dashv		
							+	_		+	+	+		
:	•			•				_			+	+		
Preservatives: (Preservatives: (1) Na ₂ S ₂ O ₃ (2) HCI (3) HNO ₃ (4) NH4CI		Matrix:	DW-Drinki	ng Water,	WW-Wa	ste W	ater, S	W-Sta	rm W	ater, C	3W- Gr	Matrix: DW-Drinking Wafer, WW-Waste Water, SW-Storm Water, GW- Ground Water. A-Air	
(5) H2SD4	(6) Na2SQ3 (7) Cold (8) Other:			Type- 1	1-Routine, 2	2-Repeat,	t, 3-Re	3-Replacement, 4-Special	nent,	4-Spe	sial V	V-Well	W-Well D- Dist.	
Relinquished	ed By (Sigh) Print Name / Company	y		Date / T	/ Time		2	Regely	d By	By (Sign)			Print Name / Company	vany
	tologen / Palliner		12/6	51	102		1	13					Medo (CL)	8
	CO CONTRACTOR	2	921	7/4	115		7	M	\mathbb{N}	M	(Kh111 cb	
Comprents: Z.7AT	ZAAT			%	Samples received: \(\int\)	ecelve [5×	<u>,7 g</u>	\mathcal{Z}	Intact	- \frac{7}{2}) Custody seals	
Shipped Via	Fed X Golden State	SAN 1	- Sc	Client	Other								Page_1_of_1	

"Your Water and Wastewater Analysis Solution"



06 October 2015 Clinical Lab No.: 15l2433

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 09/29/15 . 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 ofProject:Standard AnalysisWork Order:151243324373 Walnut AvenueSub Project:Lomita Distribution Special SampleReceived:09/29/15 15:20Lomita CA, 91717Project Manager:Mark AndersenReported:10/06/15

1948 W 252nd St		1512433-0	1 (Water)		Sample Da	te: 09/29/15	5 10:40 Sa	ampler: E	Edward Duvivier
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	1.63		N/A	mg/L	09/29/15	09/29/15	1540189	
Microbiology Analyses									
Plate Count	SM9215B	6	1	500	CFU/ml	09/29/15	10/01/15	1540458	
General Chemical Analyses									
pH (Lab)	SM 4500HB	7.9		N/A	pH Units	09/29/15	09/29/15	1540087	
24632 S Moon Ave		15I2433-0	2 (Water)		Sample Da	te: 09/29/15	5 10:25 Sa	ampler: E	Edward Duvivier
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	0.34		N/A	mg/L	09/29/15	09/29/15	1540189	
Microbiology Analyses									
Plate Count	SM9215B	1100	1	500	CFU/ml	09/29/15	10/01/15	1540458	Note
General Chemical Analyses									
pH (Lab)	SM 4500HB	7.6		N/A	pH Units	09/29/15	09/29/15	1540087	
25417 Pennsylvania Ave.		15I2433-0	3 (Water)		Sample Da	te: 09/29/15	5 10:10 Sa	ampler: E	Edward Duvivier
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	0.37		N/A	mg/L	09/29/15	09/29/15	1540189	
Microbiology Analyses									
Plate Count	SM9215B	1300	1	500	CFU/ml	09/29/15	10/01/15	1540458	Note
General Chemical Analyses									
pH (Lab)	SM 4500HB	7.9		N/A	pH Units	09/29/15	09/29/15	1540087	

ND

Analyte NOT DETECTED at or above the reporting limit



Lomita, City ofProject:Standard AnalysisWork Order:151243324373 Walnut AvenueSub Project:Lomita Distribution Special SampleReceived:09/29/15 15:20Lomita CA, 91717Project Manager:Mark AndersenReported:10/06/15

2052 Dawn St		15I2433-0	4 (Water)		Sample Da	ote: 09/29/15	10:55 S	ampler: Ed	lward Duvivier
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	1.17		N/A	mg/L	09/29/15	09/29/15	1540189	
Microbiology Analyses									
Plate Count	SM9215B	4000	1	500	CFU/ml	09/29/15	10/01/15	1540458	Note
General Chemical Analyses									
pH (Lab)	SM 4500HB	8.0		N/A	pH Units	09/29/15	09/29/15	1540087	
Reservoir Effluent Site #5		15I2433-0	5 (Water)		Sample Da	ote: 09/29/15	9:30 S	ampler: Ed	lward Duvivier
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
Field Analyses									
<u>Field Analyses</u> Cl Res Free (Field)	Field	0.28		N/A	mg/L	09/29/15	09/29/15	1540213	
	Field	0.28		N/A	mg/L	09/29/15	09/29/15	1540213	
Cl Res Free (Field)	Field SM9215B	0.28 ND	1	N/A 500	mg/L CFU/ml	09/29/15 09/29/15	09/29/15	1540213 1540458	
Cl Res Free (Field) Microbiology Analyses			1						
Cl Res Free (Field) Microbiology Analyses Plate Count			1						
Cl Res Free (Field) Microbiology Analyses Plate Count General Chemical Analyses	SM9215B	ND	1	500	CFU/ml	09/29/15	10/01/15	1540458	



Analytical Laboratory Service - Since 1964

Certificate of Analysis

Report Date: 10/07/15 09:43
Received Date: 09/30/15 11:25
Turnaround Time: 5 workdays

Phones: (909) 825-7693 **Fax:** (909) 825-7696

P.O. #:

Project: 15l2433

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 9/30/2015 with the Chain of Custody document. The samples were received in good condition, at 2.8 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

	Sample ID:	Re	eservoir Efflu	uent Site #	‡5 / 15I24	<mark>33-05</mark>			Matr	rix: Water
Sampled by: Client	Sampled: (09/29/15	09:30							
Analyte F	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Methane	<mark>0.30</mark>		0.010	mg/l	1	RSK-175	10/5/15	10/5/15 16:47	W5J0292	

5130025 Page 1 of 3



Analytical Laboratory Service - Since 1964

Certificate of Analysis

Quality Control Section

Dissolved Gases in Water by RSK-175 - Quality Control

Blank (W5J0292-BLK1)					Prepared: 10	/05/15 A	nalyzed: 10/0!	5/15 15:48	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		ND		mg/l					
LCS (W5J0292-BS1)					Prepared: 10	/05/15 A	nalyzed: 10/0!	5/15 16:27	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.179		mg/l	0.198	90	85-115		
Calibration Check (W5J0292-CCV1)					Prepared: 10	/05/15 A	nalyzed: 10/0!	5/15 16:07	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.00785		mg/l	0.00792	99	50-150		
Calibration Check (W5J0292-CCV2)					Prepared: 10	/05/15 A	nalyzed: 10/0!	5/15 18:06	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.190		mg/l	0.198	96	85-115		
Duplicate (W5J0292-DUP1)	s	ource: 5I30081	-01		Prepared: 10	/05/15 A	nalyzed: 10/0!	5/15 17:52	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane	0.675	0.654		mg/l				3	20





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

5130025 Page 3 of 3

SUBCONTRACT ORDER

Clinical Laboratory of San Bernardino 1512433

5I30025

SENDING LABORATORY:	RECEIVING LABORATORY:
Clinical Laboratory of San Bernardino 21881 Barton Road Grand Terrace, CA 92313	Weck Lab, Analytical & Environmental Analytical & Environmental Svc 14859 E Clark Ave Industry, CA 91745
Phone: 909.825.7693	Phone :(626) 336-2139
Fax: 909.825.7696	Fax: (626) 336-2634
Project Manager: Stu Styles	
Please email results to Project Manager: Stu Styles [] glaubig@clinical-lab.com [] ybarra@clinical-lab.co	om [/styles@clinical-lab.com []cole@clinical-lab.com
California EDT transfer those samples with PS code Transfer File requested; log in with Element ID only	es provided [] Yes [/] No y [] Yes [// No
Turn Around Time [] 10 Days [5 Days [] 0 Subcontract Comments:	Other Days
Analysis	Comments
Sample ID: Reservoir Effluent Site #5 / 15I2433-05	Sampled: 09/29/15 09:30 PS Code: Water WTX ID: UCMR ID:
Methane RSK175	Report in mg/L
Containers Supplied:	
40ml Amber Vial (B) 40ml Amber V	ial (C)

| Released By | Date / Time | Received By | Date / Time | Received By | Date / Time | Date / Date /

5/9/7

				AND DESCRIPTION OF THE PERSON.									
Client	City of Lomita	Syst	System Number	mber		Anal	Analysis Requested	Sedue	ested				
Address	24373 Walnut Avenue		1910	910073									
œ	Lomita, CA 91717	٠]		U-A			1	M	
Phone #	(310) 325-9830	Des	tination	Destination Laboratory	ory	Het	10		Ph		01	0	
Fax#	(310) 325-3627	Σ	Clinical	[X] Clinical Laboratory	ory	etro	tal		osp	C		Har	
Project	Standard Analysis	RM	OCB C	RWQCB Compliance	:				horu	olor			
Sub Project	Lomita Distribution Special Sample		ELA	No ELAP#		c Plate	olved :	- Orth	ıs- Tot	& Od	itrite	L Chi	
Comments			3	0		Co	50li		al a	or	-111	la to	
Sampled by	Edward Dy Vivier		5	1088		unt	as		s P		-	26	
Date Time	Sample Idenitification	Matrix	Type	Preserv	Total Chlorine	ō				3		Comments / P.S.	ts / P.S. Codes
9/29/2015 1040	1948 W. 252nd St.	DW	D4	1,7	1.63	×							
9/29/2015 toy ()	1948 W. 252nd St.	DW	D4	A Z	1.63		×						
5/29/2015 1025	24632 S. Moon Ave.	DW	D4	1,7	6.34	×							
5201 \$102/62/6	24632 S. Moon Ave.	DW	D4	AN	0.34		×						
9/29/2015 1010	25417 Pennsylvania Ave	DW	D4	1,7	0.37	X							
9/29/2015 1010		DW	D4	NA	0.37	,	X					gi.	
9/29/2015 1055	2052 Dawn St.	DW	D4	1,7	1.17	×		_					
9/29/2015 1055	2052 Dawn St.	DW	D4	NA	1.17		×						
9/29/2015 0925	Reservoir Effluent Site #5	DW	D4	1,7	free	×						0.28 pom	Liee chloring
9/29/2015 0925	Reservoir Effluent Site #5	DW	D4	NA	Free		×					0.2.0 oom	
9/29/2017 0930	Reservoir Effluent) MO	02-	1,2	ı	H	H	H				×	
7	S. P. #ST												
Preservatives. (1)	Preservatives: (1) Na ₂ S ₂ O ₃ (2) HCl (3) HNO ₃ (4) NH4Cl	M	atrix: D	W-Drink	Matrix: DW-Drinking Water, WW-Waste Water, SW-Storm Water,	WW-Waste Water, SW-St	aste V	fater,	SW-St	orm V		GW- Ground Water, A-Air	er, A-Air
Poliment had Ry (Signal)	R. (Cha)			l ype- i		aday.	dt, 5-1	epiace	ent,	, 4-Special	ciai	W-Well D-DIST.	
A F You	H	4	129/					Kacewea	ea by	by (Sign)	2	Frint Name	ne/Company
	City		9.29.	15%	3130 1520	0	1)()	F,	14	1	ر الم	100 CD
Comments:	LESENOIT ISOLATER CFRECHBANE	16me)	*	S	Samples received	eceive	Temp	\$	S.S.	J-	Tintact) F		Custody seals
Shipped Via	5	I I UPS	$ \exists $	Client	Other							Page_1_ o	of_1_

"Your Water and Wastewater Analysis Solution"



21 September 2015 Clinical Lab No.: 1510959

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

Project Name: Standard Analysis Sub Project: Weekly Compliance

Enclosed are the results of the analyses for samples received at the laboratory on 09/09/15 . 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:151095924373 Walnut AvenueSub Project:Weekly ComplianceReceived:09/09/15 14:45Lomita CA, 91717Project Manager:Mark AndersenReported:09/21/15

Filter Effluent Site #3		1510959-0	1 (Water)		Sample Dat	e: 09/09/15	11:03 S a	ampler: Ed	ward 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	09/10/15	09/10/15	1537573	
Metals									
Iron (Fe)	EPA 200.7	ND	100	300	ug/L	09/17/15	09/17/15	1538403	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	09/17/15	09/17/15	1538403	
Reservoir Effluent Site #5		1510959-0	2 (Water)		Sample Dat	e: 09/09/15	11:00 Sa	ampler: Ed	ward Duvivier
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Total Filterable Residue/TDS	SM 2540C	710	5.0	1000	mg/L	09/10/15	09/11/15	1537555	
ND Analyte NOT DETECTED at or above	the reporting limi	t							

EDT Transfer Confirmation 1



Work Order: 15I0959 Report Date: 09/21/2015

Analyzing Lab: Clinical Laboratory of San Bernardino, Inc. ELAP 1088

LOMITA-CITY, WATER DEPT.		User ID: 4TH	System:	1910073
WELL 05 TREATMENT PLANT EFFLUENT	Stati	on No.: 1910073-0	06	Sampled: 150909 11:03
COLOR	Result: ND	Units: UNITS	Entry No.: 000	081 Analyzed: 150910
IRON	Result: ND	Units: UG/L	Entry No.: 010	045 Analyzed: 150917
MANGANESE	Result: ND	Units: UG/L	Entry No.: 010)55 Analyzed: 150917



Analytical Laboratory Service - Since 1964

Certificate of Analysis

Report Date: 09/16/15 14:14 Received Date: 09/11/15 10:15 Turnaround Time: 5 workdays

Phones: (909) 825-7693 **Fax:** (909) 825-7696

P.O. #:

Attn: John Styles

Project: 1510959

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 9/11/2015 with the Chain of Custody document. The samples were received in good condition, at 3.1 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Lab ID: 5l11022-01	Sample	ID: F	Reservoir E	ffluent Site	#5 / 15	10959-02			Ma	atrix: Water
Sampled by: Client	Sampled	i: 09/09/	15 11:00							
Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Methane	0.66		0.010	mg/l	1	RSK-175	9/11/15	9/11/15 18:44	W5I0644	



Quality Control Section

Dissolved Gases in Water by RSK-175 - Quality Control

Blank (W5I0644-BLK1)					Prepared: 09	/11/15 Ana	alyzed: 09/1	1/15 17:24	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		ND		mg/l					
LCS (W510644-BS1)					Prepared: 09	/11/15 Ana	alyzed: 09/1	1/15 18:04	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.200		mg/l	0.198	101	85-115		
Calibration Check (W5I0644-CCV1)					Prepared: 09	/11/15 Ana	alyzed: 09/1	1/15 17:44	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.00713		mg/l	0.00792	90	50-150		
Calibration Check (W5I0644-CCV2)					Prepared: 09	/11/15 Ana	alyzed: 09/1	1/15 19:43	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.192		mg/l	0.198	97	85-115		
Duplicate (W5I0644-DUP1)	S	ource: 5I11022	-01		Prepared: 09	/11/15 Ana	alyzed: 09/1	1/15 19:03	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane	0.661	0.653		mg/l				1	20

5I11022 Page 2 of 3



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

5111022

SUBCONTRACT ORDER

Clinical Laboratory of San Bernardino

15I0959

5I11022

SENDING LABORATORY:	RECEIVING LABORATORY:
Clinical Laboratory of San Bernardino 21881 Barton Road Grand Terrace, CA 92313 Phone: 909.825.7693 Fax: 909.825.7696 Project Manager: Stu Styles	Weck Lab, Analytical & Environmental Analytical & Environmental Svc 14859 E Clark Ave Industry, CA 91745 Phone:(626) 336-2139 Fax: (626) 336-2634
Please email results to Project Manager: Stu Styles [] glaubig@clinical-lab.com [] ybarra@clinical-lab.com [\frac{1}{2}] California EDT transfer those samples with PS codes prov	/styles@clinical-lab.com [] cole@clinical-lab.com
Transfer File requested; log in with Element ID only	[] Yes [V] No
Turn Around Time [] 10 Days [] 5 Days [] Other _Subcontract Comments:	Days
Analysis	Comments
Sample ID: Reservoir Effluent Site #5 / 1510959-02 Samp Water	led: 09/09/15 11:00 PS Code: WTX ID: UCMR ID:
Methane RSK175	Report in mg/L
Containers Supplied: 0mL Amber Vial HCl (B) 40mL Amber Vial HCl	(C)
	100 00 0 0 0 0 11/1 15/15

Released By

Date / Time

Janutm

alulu pois 3.1°

Received By Date / Time

 $\phi |\phi|_{Chain} \phi / CL$ 0959 Chain of Custody

Clinical Laboratory of San Bernardino, Inc.

Cliont		1													,
		Cuy of Lomina	જ	stem N	System Number		Ana	ysis	Analysis Requested	reste	ا چ				
Address	SS	24373 Walnut Avenue		7	10072					_					
		Lomita, CA 91717		ה ה	1910013							Me	Me		
Phone #	#	(310) 325-9830	2	estination	Destination Laboratory	tory						tha	tha		
Fax#		(310) 325-3627		X] Clinic	[X] Clinical Laboratory	ory						ne (ne		
Project	į,	Standard Analysis		CDWR (CDWR Compliance	, e]					WA	(AII		
Sub Project	roject	CWPF Weekly Compliance Analysis			YES FI AP #		ron	 iganes	e- Ort	us- To	Color	TER)	R) (AS		
Comments	ents			1								(R	TM		
Sampled by	ed by	Edward Malivier		_	1088							SK17	D19		
Date	Time	Sample Idenitification	Matrix	Type	Preserv	Total Chlorine						75)	46)	Comments / P.S. C	Codes
		Raw Water Site #1	MQ	ΜI	HCL					<u> </u>	-	_		W13-005	
		Raw Water Site #1	DW	MΙ	N/A		_		-					W13-005	
610117	0								H	2	\sqcup	ota			
2/2/2	1105	Filter Effluent Site (Chloramine) #3	DW	1W	N/A		×	×		-	×			E13-005A	
							\top	+	+		_				
				7				\dagger		-	-	1			
4/4/15	1100	Reservoir Effluent Site #5	DW	*	N/A)		-	×	<u> </u>	_	1			
4/4/1/	101	Reservoir Effluent Site #5	DW	*	HCL	\			-	-	-	×			
							T		\vdash	-	-				
		Zone #2 Site #6	DW	1W	N/A				\vdash	-	-	_			
Preserva	atives: (1)	Preservatives: (1) Na ₂ S ₂ O ₃ (2) HCI (3) HNO3 (4) NH4CI		Matrix:	DW-Drink	ing Water,	WW-M	/aste	Water,	SW-S	- Storm	Wate	GW.	Matrix: DW-Drinking Water, WW-Waste Water, SW-Storm Water, GW- Ground Water, A-Air	
(2)	(5) H2SO4 (6	(7) Cold (8			Type- 1	Type- 1-Routine, 2	-Repe	at, 3-	2-Repeat, 3-Replacement, 4-Special	emer	it, 4-S	pecia	1-W-	W-Well D- Dist.	
Rellin	Relinquished By (Sign)	3y (Sign) Print Name / Company	4		Date / Time	rime			Aceive		By (Sign)	(ub		Print Name / Company	pany
3		Exwad Divicion	(5/6	3/18	111		B	T		4		N	T. Well C.	158
1	子子		4	0.0	15/	2:45	1	7	#	1	\mathbb{K}	1		Kass Kho	5
Comments:	ents:_		\		<i>></i>	Samples received: #	eceiv	ed: Y Temp	∑ -) Int	Intract V	() Custody sealš	
Shipped Via	Via	Fed X Golden State	UPS		Client	Other								Page 1 of 1	

"Your Water and Wastewater Analysis Solution"



05 October 2015 Clinical Lab No.: 15I1600

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

Project Name: Standard Analysis

Sub Project: CWPF Monthly Compliance Analysis

Enclosed are the results of the analyses for samples received at the laboratory on 09/16/15 . 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



Reported:

Lomita, City of Project: Standard Analysis Work Order: 15I1600 Sub Project: CWPF Monthly Compliance Analysis Received: 09/16/15 17:15 24373 Walnut Avenue 10/05/15

Lomita CA, 91717 Project Manager: Mark Andersen

Raw Water Site #1		1511600-0	1 (Water)		Sample Dat	te: 09/16/15	11:12	Sampler:	Edward Duvivier
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	l Batch	Qualifier
Field Analyses									
Cl Res Total (Field)	Field	0		N/A	mg/L	09/16/15	09/16/15	1538475	
Microbiology Analyses									
Total Coliform	SM 9223	A		N/A	P/A	09/16/15	09/17/15	1538500	
E. Coli	SM 9223	A		N/A	P/A	09/16/15	09/17/15	1538500	
General Physical Analyses									
Apparent Color	SM 2120B	10.0	3.0	15	Color Units	09/17/15	09/18/15	1538552	
General Chemical Analyses									
Total Filterable Residue/TDS	SM 2540C	690	5.0	1000	mg/L	09/21/15	09/23/15	1539008	
Metals									
Iron (Fe)	EPA 200.7	330	100	300	ug/L	09/23/15	09/23/15	1539371	
Manganese (Mn)	EPA 200.7	120	20	50	ug/L	09/23/15	09/23/15	1539371	
Filter Effluent Site (Chloramine) #3		15I1600-0	2 (Water)		Sample Dat	te: 09/16/15	10:50	Sampler:	Edward Duvivier
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	l Batch	Qualifier
General Physical Analyses									
Apparent Color	SM 2120B	ND	3.0	15	Color Units	09/17/15	09/18/15	1538552	
<u>Metals</u>									
Iron (Fe)	EPA 200.7	ND	100	300	ug/L	09/23/15	09/23/15	1539371	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	09/23/15	09/23/15	1539371	
Filter Effluent (Free Chlorine) Site #2		15I1600-0	3 (Water)		Sample Dat	te: 09/16/15	10:55	Sampler:	Edward Duvivier
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	l Batch	Qualifier
Field Analyses									
Cl Res Free (Field)	Field	31.32		N/A	mg/L	09/16/15	09/16/15	1538476	
Microbiology Analyses					5				
Total Coliform	SM 9223	A		N/A	P/A	09/16/15	09/17/15	1538500	
E. Coli	SM 9223	A		N/A	P/A	09/16/15	09/17/15		
Plate Count	SM9215B	ND	1	500	CFU/ml	09/16/15	09/18/15	1538560	



Lomita, City ofProject:Standard AnalysisWork Order:151160024373 Walnut AvenueSub Project:CWPF Monthly Compliance AnalysisReceived:09/16/15 17:15Lomita CA, 91717Project Manager:Mark AndersenReported:10/05/15

Reservoir Effluent Site #5		15I1600-0	4 (Water)		Sample Da	ate: 09/16/15	10:47 Sa	ampler: Edward Duvivier
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch Qualifier
Field Analyses								
Cl Res Total (Field)	Field	3.22		N/A	mg/L	09/16/15	09/16/15	1538475
General Physical Analyses								
Odor Threshold	EPA 140.1M	1	1	3	TON	09/16/15	09/16/15	1538527
General Chemical Analyses								
Total Filterable Residue/TDS	SM 2540C	580	5.0	1000	mg/L	09/21/15	09/23/15	1539008
Zone #2 Site #6		15I1600-0	5 (Water)		Sample Da	ate: 09/16/15	10:42 Sa	ampler: Edward Duvivier
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch Qualifier
General Chemical Analyses								
Total Filterable Residue/TDS	SM 2540C	680	5.0	1000	mg/L	09/21/15	09/23/15	1539008
ND Analyte NOT DETECTED at or	above the reporting limit	t						

EDT Transfer Confirmation 1



Work Order: 15I1600 Report Date: 10/05/2015

Analyzing Lab: Clinical Laboratory of San Bernardino, Inc. ELAP 1088

LOMITA-CITY, WATER DEPT. User ID: 4TH System: 1910073 Station No.: 1910073-003 Sampled: 150916 11:12 WELL 05 COLOR Result: 10.0 Units: UNITS Entry No.: 00081 Analyzed: 150918 IRON Result: 330 Units: UG/L Entry No.: 01045 Analyzed: 150923 Entry No.: 01055 Analyzed: 150923 MANGANESE Result: 120 Units: UG/L TOTAL DISSOLVED SOLIDS Result: 690 Units: MG/L Entry No.: 70300 Analyzed: 150923 WELL 05 TREATMENT PLANT EFFLUENT Station No.: 1910073-006 Sampled: 150916 10:50 COLOR Result: ND Units: UNITS Entry No.: 00081 Analyzed: 150918 IRON Units: UG/L Entry No.: 01045 Analyzed: 150923 Result: ND MANGANESE Result: ND Units: UG/L Entry No.: 01055 Analyzed: 150923



Report Date: 09/29/15 13:16
Received Date: 09/18/15 11:18
Turnaround Time: 5 workdays

Phones: (909) 825-7693 Fax: (909) 825-7696

P.O. #:

Project: 15l1600

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 9/18/2015 with the Chain of Custody document. The samples were received in good condition, at 4.1 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Lab ID: 5l18032-01 Sampled by: Client	Sample I Sampled			Site #1 / 15	l1600-01				Ма	ıtrix: Water
Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Methane	5.6		0.20	mg/l	20	RSK-175	9/25/15	9/25/15 22:47	W5I1447	
Lab ID: 5118032-02	Sample I	D: I	Reservoir E	Effluent Site	#5 / 15I	1600-04			Ma	ıtrix: Water
Sampled by: Client	Sampled	: 09/16/	15 10:47							
Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Methane	0.78		0.010	mg/l	1	RSK-175	9/25/15	9/25/15 22:07	W5I1447	

5l18032 Page 1 of 3





Quality Control Section

Dissolved Gases in Water by RSK-175 - Quality Control

Blank (W5I1447-BLK1)					Prepared: 09/	25/15	Analyzed: 09/25	/15 16:31	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		ND		mg/l					
Ethene		ND		mg/l					
LCS (W5I1447-BS1)					Prepared: 09/	25/15	Analyzed: 09/25	/15 17:10	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.183		mg/l	0.198	93	85-115		
Ethene		0.558		mg/l	0.560	100	85-115		
Calibration Check (W5I1447-CCV1)					Prepared: 09/	/25/15	Analyzed: 09/25	/15 16:50	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.00680		mg/l	0.00792	86	50-150		
Ethene		0.00621		mg/l	0.00560	111	50-150		
Calibration Check (W5I1447-CCV2)					Prepared: 09/	/25/15	Analyzed: 09/25	/15 23:06	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.179		mg/l	0.198	90	85-115		
Ethene		0.530		mg/l	0.560	95	85-115		
Duplicate (W5I1447-DUP1)	s	ource: 5I18032	-02		Prepared: 09/	/25/15	Analyzed: 09/25	/15 22:27	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane	0.770	0.731		mg/l				6	20

5118032 Page 2 of 3



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

5118032

SUBCONTRACT ORDER

Clinical Laboratory of San Bernardino

15I1600

5118032

		LABORATORY:
Clinical Laboratory of San Bernardino	Weck Lab, A	nalytical & 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) 33	36-2634
Project Manager: Stu Styles		
Please email results to Project Manager [] glaubig@clinical-lab.com [] yba	:: Stu Styles arra@clinical-lab.com	al-lab.com [] cole@clinical-lab.com
11,	•	
California EDT transfer those sa Transfer File requested; log in w	amples with PS codes provided [] Yes vith Element ID only [] Yes	
Turn Around Time [] 10 Days Subcontract Comments:	5 Days [] Other _ Days	
Analysis		Comments
Sample ID: Raw Water Site #1 / 15I1600		:08 PS Code:
Sample ID: Raw Water Site #1 / 15I1600	Sampled: 09/16/15 11 Water	WTX ID:
		WTX ID: UCMR ID:
Methane RSK175		WTX ID:
Methane RSK175 Containers Supplied:	Water	WTX ID: UCMR ID:
Methane RSK175 Containers Supplied:		WTX ID: UCMR ID:
	Water 40mL Amber Vial w/ Na2S2O3 (C) 511600-04 Sampled: 09/16/15 10	WTX ID: UCMR ID: Report in mg/L 0:47 PS Code:
Methane RSK175 Containers Supplied: 40mL Amber Vial w/ Na2S2O3 (B)	Water 40mL Amber Vial w/ Na2S2O3 (C)	WTX ID: UCMR ID: Report in mg/L
Methane RSK175 Containers Supplied: 40mL Amber Vial w/ Na2S2O3 (B)	Water 40mL Amber Vial w/ Na2S2O3 (C) 511600-04 Sampled: 09/16/15 10	WTX ID: UCMR ID: Report in mg/L 0:47 PS Code: WTX ID:
Methane RSK175 Containers Supplied: 40mL Amber Vial w/ Na2S2O3 (B) Sample ID: Reservoir Effluent Site #5 / 1	Water 40mL Amber Vial w/ Na2S2O3 (C) 511600-04 Sampled: 09/16/15 10	WTX ID: UCMR ID: Report in mg/L 0:47 PS Code: WTX ID: UCMR ID:

Released By Date / Time Received By Date / Time Received By Date / Time Received By Date / Time Date / Time Received By Date / Time

151 160C)

2/1/9Chain of Custody

Clinical Laboratory of San Bernardino, Inc.

Client		City of Lomita	mita	Sys	System Number	umber		Ana	Analysis I	Requested	este	_					
Address		24373 Walnut Avenue	Avenue		101	1010072			-	H			_		_		
		Lomita, CA 91717	91717		3	200									_		
Phone #		(310) 325-9830	9830	ď	estinatio	Destination Laboratory	tory		10						To t		
Fax#		(310) 325-3627	3627	ď	cj Clinica	[X] Clinical Laboratory	tory ·			E.					-al		
Project		Standard Analysis	alysis	,	CDWR C	CDWR Compliance	ě	I				С		ph			
Sub Project		CWPF Mandy (compliance Analysis	lianceAnalysis			YES		ron	gane		of	elor		12 1	Cali		
Comments					1 3	#				l Soli			(RS	Plate	1351		
Sampled by		Edward Du	n V.'v.'e		F	1088	Fro C/		<u> </u>			ص		ر تعا	<u></u>		
Date Tii	Time	Sample Idenitification	ification	Matrix	Type	Preserv	Total	1/246/						ut-	Comr	comments / P.S.	.S. Codes
9/16/15/108	6	Raw Water Site #1	Site #1	DW	<u>¥</u>	HCL	U.Sunt			X				$\hat{}$	X		
2111 /31/71/6		Raw Water Site #1	Site #1	DW	1W	N/N	0.03 ms/	X	X X			X	- 				
4/6/15 1110g	36	Raw vater	1#2415	MO	Mi	1,7	0,00m/L				đ		X				
501 21191/6	1350 Filter	Filter Effluent Site (Chloramine) #3	Chloramine) #3	WG	NI	N/A	ı	×	X			X		-1			
550 [51/91/6	\	-Efflort 5:4	Filter Efflunt Site AZ Cfree chane	$\mathcal{M}\mathcal{M}$	10	1.7	31.32							X X	X	nee ch	chione
			,				Free										
Shell 31/9/6		Reservoir Effluent Site #5	int Site #5	DW	10	N/A	3.22		``	X					1	Total ci	chlorne
7/6/1K 1047		Reservoir Effluent Site #5	int Site #5	DW	0 I	HCL	3,22						X		7	Total CI	home
9401 S1916		Reservoir Edfluents. Tett	ent. Yette	MO	10	NA	3.27				×				1-	10hul C	h lorine
2401/2/1012	71	Zone #2 Site #6	te #6	DW	1 D	N/A	-		×								
									+	-	_			+	+		
Preservatives	(1) Na ₃ S ₃ O ₃	Preservatives: (1) Na.S.O. (2) HCI (3) HNO3	(4) NH4CI		Matrix:	DW-Drink	Matrix: DW-Drinking Water, WW-Waste Water, SW-Storm Water, GW- Ground Water, A-Air	WW-V	Vaste I	Vater,	SW-S	torm V	Vater,	GW-	Ground	Water, A	-Air
(5) H2S	04 (6) Na2SO3	(5) H2SO4 (6) Na2SO3 (7) Cold (8) Other				Туре-	Type- 1-Routine, 2-Repeat, 3-Replacement, 4-Special W-Well D- Dist.	-Rep	3at, 3-F	Replas	emen	t, 4-Sp	ecial	W-W	ell D-D	ist.	~*
Relinquis	Relinquished By (Sign)		Print Name / Company	,	•	Date / Time	Time	_	7	D. September 1975	B. B.	By (Sign)	'n		Print	Print Name / Company	Campany
7	ON ON	Edward	and Orbivia	7	d/l	1.51/0	0h;/		Ž	77	3)			らるの	000	/CCSD
	(A)) 	City of Lomita		7 0	// 58	515)		X	7	N		구	14 Julsy	-5]
Comments	:s:	よら	ACURA CCS	ک			Samples received: \ Ter	eceiv	ed: K	\leftarrow	On ice (19.7)	$\mathbb{C}_{\mathbb{R}}$	Intact) F	<u> </u>	၁ ()	Custody seals	eals
Shipped Via		[] Fed X	[] Golden State	=	l san l	Client	[] Other								Page	1_ of_!	
							- Anna										

"Your Water and Wastewater Analysis Solution"



06 October 2015 Clinical Lab No.: 15l2067

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 09/23/15 . 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:151206724373 Walnut AvenueSub Project:CWPF Weekly Compliance AnalysisReceived:09/23/15 00:00Lomita CA, 91717Project Manager:Mark AndersenReported:10/06/15

Filter Effluent Site (Chloramine) #3		1512067-0	1 (Water)		Sample Da	te: 09/23/15	10:19 Sa	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	09/24/15	09/24/15	1539643	
<u>Metals</u>									
Iron (Fe)	EPA 200.7	ND	100	300	ug/L	09/29/15	09/30/15	1540199	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	09/29/15	09/30/15	1540199	
Reservoir Effluent Site #5		15I2067-0	2 (Water)		Sample Da	te: 09/23/15	i 10:23 Sa	mpler: Edw	ard Duvivier
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Total Filterable Residue/TDS	SM 2540C	680	5.0	1000	mg/L	09/24/15	09/25/15	1539440	
ND Analyte NOT DETECTED at or above	e the reporting limi	t							

EDT Transfer Confirmation 1



Entry No.: 01055 Analyzed: 150930

Work Order: 15I2067 Report Date: 10/06/2015

MANGANESE

Analyzing Lab: Clinical Laboratory of San Bernardino, Inc. ELAP 1088

Result: ND

LOMITA-CITY, WATER DEPT.

User ID: 4TH

System: 1910073

WELL 05 TREATMENT PLANT EFFLUENT

COLOR

Result: ND

Units: UNITS

Entry No.: 00081 Analyzed: 150924

IRON

Result: ND

Units: UG/L

Entry No.: 01045 Analyzed: 150930

Units: UG/L

Printed: 10/06/2015 03:12:18 PM Results of 15I2067 FINAL WRITEON 1910073-006



Analytical Laboratory Service - Since 1964

Certificate of Analysis

Report Date: 09/29/15 16:10 Received Date: 09/24/15 13:15 Turnaround Time: 5 workdays

Phones: (909) 825-7693 **Fax:** (909) 825-7696

P.O. #:

Project: 15l2067

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 9/24/2015 with the Chain of Custody document. The samples were received in good condition, at 4.2 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Lab ID: 5l24056-01	Sample	ID: F	Reservoir E	ffluent Site	#5 / 15	2067-02			Ma	atrix: Water
Sampled by: Client	Sampled	l: 09/23/	15 10:23							
Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Methane	0.69		0.010	mg/l	1	RSK-175	9/25/15	9/25/15 21:47	W5I1447	

5124056 Page 1 of 3





Quality Control Section

Dissolved Gases in Water by RSK-175 - Quality Control

Blank (W5I1447-BLK1)					Prepared: 09	/25/15 An	alyzed: 09/25	5/15 16:31	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		ND		mg/l					
Ethene		ND		mg/l					
LCS (W5I1447-BS1)					Prepared: 09	/25/15 An	alyzed: 09/25	5/15 17:10	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.183		mg/l	0.198	93	85-115		
Ethene		0.558		mg/l	0.560	100	85-115		
Calibration Check (W5I1447-CCV1)					Prepared: 09	/25/15 An	alyzed: 09/25	5/15 16:50	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.00680		mg/l	0.00792	86	50-150		
Ethene		0.00621		mg/l	0.00560	111	50-150		
Calibration Check (W5I1447-CCV2)					Prepared: 09	/25/15 An	alyzed: 09/25	5/15 23:06	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.179		mg/l	0.198	90	85-115		
Ethene		0.530		mg/l	0.560	95	85-115		
Duplicate (W5I1447-DUP1)	5	Source: 5I18032	-02		Prepared: 09	/25/15 An	alyzed: 09/25	5/15 22:27	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane	0 779	0.731		mg/l				6	20

5124056 Page 2 of 3



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

5124056 Page 3 of 3

SUBCONTRACT ORDER

Clinical Laboratory of San Bernardino 1512067

5I24056

SENDING LABORATORY:	RECEIVING LABORATORY:
Clinical Laboratory of San Bernardino 21881 Barton Road Grand Terrace, CA 92313 Phone: 909.825.7693 Fax: 909.825.7696	Weck Lab, Analytical & Environmental Analytical & Environmental Svc 14859 E Clark Ave Industry, CA 91745 Phone: (626) 336-2139 Fax: (626) 336-2634
Project Manager: Stu Styles	1 ⁻ ax. (020) 550-2054
Please email results to Project Manager: S [] glaubig@clinical-lab.com [] ybarra California EDT transfer those sam Transfer File requested; log in with Turn Around Time [] 10 Days [1 Subcontract Comments:	@clinical-lab.com []/styles@clinical-lab.com [] cole@clinical-lab.com ples with PS codes provided [] Yes []/No
Analysis	Comments
Analysis Sample ID: Reservoir Effluent Site #5 / 15I	
	2067-02 Sampled: 09/23/15 10:23 PS Code: Water WTX ID:
Sample ID: Reservoir Effluent Site #5 / 15I	2067-02 Sampled: 09/23/15 10:23 PS Code: Water WTX ID: UCMR ID:

| Released By | Date / Time | Received By | Date / Time | Date / Time | Received By | Date / Time |

|572007| $|\phi|3$

Clinical Laboratory of San Bernardino, Inc.	Laboratory of San Bernardino,	
Labo	Labo	Inc.
Labo	Labo	Bernardino,
Labo	Labo	San
_		fo

Client		City of Lomita	S	stem N	System Number		Anal	Veis	Analysis Regiseted	peter	-				ſ
Address	is.	24373 Walnut Avenue		707	000					-			T		
		Lomita, CA 91717		3	1910073								Me		
Phone #	#	(310) 325-9830	7	Destination	Destination Laboratory	tory							tha		
Fax#		(310) 325-3627		X] Clinic	[X] Clinical Laboratory	lory							ne (
Project		Standard Analysis		CDWR	CDWR Compliance		J				((AII	tes.	
Sub Project	oject	CWPF Weekly Compliance Analysis			YES		ron	igane	e- Or solve	us- T	Color	TER	R) (A		
Comments	ents				ELAP #								SŤM	:	
Sampled by	ed by	Follow M. U. r.	_	-	1088								D19		•
Date	Time	Sample Idenitification	Matrix	Type	Preserv	Total Chlorine							46)	Comments / P.S. Codes	
		Raw Water Site #1	DW	1W	된					-	L		T	W13-005	
		Raw Water Site #1	DW	1W	N/A								-	W13-005	I
9.23.15	6101	'Filter Effluent Site (Chloramine) #3	DW	1W	N/A	١	×	X		_	×			E13-005A	
										_					
								\vdash	_						
								H	-	L					
9.23.5	1025	Reservoir Effluent Site #5	DW	1W	N/A	ĺ	T		×	-			Γ		Ī
253.15	102 3	Reservoir Effluent Site #5	DW	1W	HCL	l			_	\vdash		×	T	,	
			,						\vdash	-					I
		Zone #2 Site #6	DW	1W	N/A				-	-			T		
Ī															
Preserva (5)	H2SO4 (Preservatives: (1) Na ₂ S ₂ O ₃ (2) HCI (3) HNO3 (4) NH4CI (5) H2SO4 (6) Na ₂ SO3 (7) Cold (8) Other:	J.F	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-W -Repe	/aste	Water, Replac	SW-S	torm	Water,	6W-	, WW-Waste Water, SW-Storm Water, GW- Ground Water, A-Air 2-Repeat, 3-Replacement, 4-Special W-Well D. Dist	
Relin	fuished ,	Relinquished By Sign) Print Name Company	ty.		Date / Time			17	Recei	d B	By (Sign)	(n)		Print Name / Company	Ta
1	N To	MP EXWAY WING		4/2	1/15/1	12:15			L	R				TUILANOICIT	2
	ACA.	City of Lomita		17.6	1511			1			1	K		HWAY GAS	T
Conments:	ents:	400 mm 0			S 2	Samples received:	eceiv		\mathbf{A}	On ice	()	Intact	उ	d.	
Shipped Via	Via	Fed X Golden State	SAU []	.,	[] Client	[] Other					1		3	Page 1 of 1	

"Your Water and Wastewater Analysis Solution"



07 October 2015 Clinical Lab No.: 15l2581

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

Project Name: Standard Analysis

Sub Project: CWPF Weekly Compliance

Enclosed are the results of the analyses for samples received at the laboratory on 09/30/15 . 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:151258124373 Walnut AvenueSub Project:CWPF Weekly ComplianceReceived:09/30/15 14:45Lomita CA, 91717Project Manager:Mark AndersenReported:10/07/15

Filter Effluent Site #3		15I2581-0	1 (Water)		Sample Dat	e: 09/30/15	10:15 S a	ampler: Ed	ward 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	09/30/15	09/30/15	1540487	
<u>Metals</u>									
Iron (Fe)	EPA 200.7	ND	100	300	ug/L	10/02/15	10/02/15	1540463	
Manganese (Mn)	EPA 200.7	ND	20	50	ug/L	10/02/15	10/02/15	1540463	
Reservoir Effluent		1512581-0	2 (Water)		Sample Dat	e: 09/30/15	12:00 Sa	ampler: Ed	ward Duvivier
Analyte	Method	Result	Rep. Limit	MCL	Units	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Total Filterable Residue/TDS	SM 2540C	770	5.0	1000	mg/L	09/30/15	10/02/15	1540319	
ND Analyte NOT DETECTED at or above	the reporting limi	t							

EDT Transfer Confirmation 1



Work Order: 15I2581 Report Date: 10/07/2015

Analyzing Lab: Clinical Laboratory of San Bernardino, Inc. ELAP 1088

System: 1910073 LOMITA-CITY, WATER DEPT. User ID: 4TH WELL 05 TREATMENT PLANT EFFLUENT Station No.: 1910073-006 Sampled: 150930 10:15 Units: UNITS Entry No.: 00081 Analyzed: 150930 Result: ND Entry No.: 01045 Analyzed: 151002 IRON Result: ND Units: UG/L MANGANESE Entry No.: 01055 Analyzed: 151002 Result: ND Units: UG/L





Report Date: 10/07/15 09:44 Received Date: 10/01/15 13:55 Turnaround Time: 5 workdays

Phones: (909) 825-7693

Fax: (909) 825-7696

P.O. #:

Attn: John Styles

Project: 15l2581

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 10/1/2015 with the Chain of Custody document. The samples were received in good condition, at 2.6 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Lab ID: 5J01038-01	Sample	ID: I	Reservoir E	ffluent/ 15I	2581-02				Ma	atrix: Water
Sampled by: Client	Sampled	Sampled: 09/30/15 12:00								
Analyte	Result	MDL	MRL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Methane	0.40		0.010	mg/l	1	RSK-175	10/5/15	10/5/15 17:07	W5J0292	

5J01038 Page 1 of 3





Quality Control Section

Dissolved Gases in Water by RSK-175 - Quality Control

Blank (W5J0292-BLK1)					Prepared: 10	/05/15 An	alyzed: 10/0!	5/15 15:48	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		ND		mg/l					
LCS (W5J0292-BS1)					Prepared: 10	/05/15 An	alyzed: 10/0!	5/15 16:27	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.179		mg/l	0.198	90	85-115		
Calibration Check (W5J0292-CCV1)					Prepared: 10	/05/15 An	alyzed: 10/0!	5/15 16:07	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.00785		mg/l	0.00792	99	50-150		
Calibration Check (W5J0292-CCV2)					Prepared: 10	/05/15 An	alyzed: 10/0!	5/15 18:06	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane		0.190		mg/l	0.198	96	85-115		
Duplicate (W5J0292-DUP1)	S	ource: 5I30081	-01		Prepared: 10	/05/15 An	alyzed: 10/0!	5/15 17:52	
Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Methane	0.675	0.654		mg/l				3	20

5J01038 Page 2 of 3



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

5J01038

SUBCONTRACT ORDER

Clinical Laboratory of San Bernardino

1512581

5 Jol038

SENDING LABORATORY:	RECEIVING	LABORATORY:
Clinical Laboratory of San Bern 21881 Barton Road Grand Terrace, CA 92313 Phone: 909.825.7693 Fax: 909.825.7696 Project Manager: Stu Styles	*	336-2139
	[] ybarra@clinical-lab.com [] styles@clini	cal-lab.com [] cole@clinical-lab.com
-	log in with Element ID only [] Yes Days [5 Days [] Other Days	[√No Comments
Anatysis		Comments
Sample ID: Reservoir Effluent / 1	1512581-02 Sampled: 09/30/15 1 Water	2:00 PS Code: WTX ID:
	· · · · · · · · · · · · · · · · · · ·	UCMR ID:
Methane RSK175		
Methane RSK175	, , , , , , , , , , , , , , , , , , ,	UCMR ID:
	40ml Amber Vial (C)	UCMR ID:

| Date / Time |

Clinical Laboratory of San Bernardino, Inc. CHAIN OF CUSTODY PAGE OF LOT

TURN AROUND TIME		PRINT NAME/COMPANY THE COMPANY PRINT NAME/COMPANY THE EXPRESSED AS WORKING DAYS. PRINT NAME/COMPANY PRINT NAME/COMPANY THE EXPRESSED AS WORKING DAYS.
ANALYSIS REQUESTED TO S Color Manganese Tron	X	10) 10 DAY (S) 5 DAY RUSH SOME ANALYSECULAR TRANSPORT THAN CHOSEN TIME DUE TO METHOD LIMITATIONS. DATE / TIME PRINT NAME / CONDITIONS / COMMENTS: GREYHOUND GREYHOUND OTHER
CLIENT JOB NUMBER CLICOL CO CO COMPANY USE CANNY CLINICAL LABORATORY OF SAN BERNARDINO, INC. (909) 825-7693 OTHER NUMBER OF CONTAINERS CONTAINE	21 × 10 × 10 × 10 × 10 × 10 × 10 × 10 ×	URN AROUND TIME: COMPANY UNV. & C CLSS
Address: 24373 Ww. Ant Ave Lemita CA 91717 System Number: 1910073 Phone No.: 30259620 Fax No.: Project Name: CWPF Weekly Complance Sampled By: Edwork DW/Wor Comments: S Day Rush DATE TIME SAMPLE IDENTIFICATION	Misolis 1200 Reservoir Effluent	PRESERVATIVES: (1) Na ₂ S ₂ O ₃ (3) COLD (2) HNO ₂ HCI (4) RECIDAT LAB BY: SHIPPED VIA GOLD FECTO AT LAB BY: FETTO

APPENDIX B

METHANE MONITORING LOG



CITY OF LOMITA PUBLIC WORKS DEPARTMENT

CYPRESS WATER PRODUCTION FACILITY HANDHELD METHANE LOG READINGS

September 2015									
DATE	TIME	METHAN	IE HANDHELD	COMMENTS					
9/1/2015	3:30 PM	CH4- 0%	Oxy- 20.9%						
9/2/2015	3:30 PM	CH4- 0%	Oxy- 20.9%						
9/3/2015	3:00 PM	CH4- 0%	Oxy- 20.9%						
9/4/2015	7:30 AM	CH4- 0%	Oxy- 20.4%						
9/5/2015									
9/6/2015									
9/7/2015	9:00 AM	CH4- 0%	Oxy- 20.5%						
9/8/2015	2:00 PM	CH4- 0%	Oxy- 20.8%						
9/9/2015	7:40 AM	CH4- 0%	Oxy- 20.6%						
9/10/2015	7:25 AM	CH4- 0%	Oxy- 20.8%						
9/11/2015									
9/12/2015									
9/13/2015									
9/14/2015	1:00 PM	CH4- 0%	Oxy- 20.9%						
9/15/2015	1:30 PM	CH4- 0%	Oxy- 20.9%						
9/16/2015	2:00 PM	CH4- 0%	Oxy- 20.9%						
9/17/2015	5:20 PM	CH4- 0%	Oxy- 20.9%						
9/18/2015	2:00 PM	CH4- 0%	Oxy- 20.9%						
9/19/2015									
9/20/2015									
9/21/2015	3:30 PM	CH4- 0%	Oxy- 20.9%						
9/22/2015	3:45 PM	CH4- 0%	Oxy- 20.9%						
9/23/2015	1:15 PM	CH4- 0%	Oxy- 20.5%						
9/24/2015	2:45 PM	CH4- 0%	Oxy- 20.5%						
9/25/2015									
9/26/2015									
9/27/2015									
9/28/2015	3:00 PM	CH4- 0%	Оху- 20.7%						
9/29/2015	2:00 PM	CH4- 0%	Oxy- 20.6%						
9/30/2015	10:00 AM	CH4- 0%	Oxy- 20.7%						

ND- Non Detect

CH4- Methane

Oxy- Oxygen

Weekend/Day Off/Holiday- Red

APPENDIX C

NITRIFICATION MONITORING DATA SUMMARY

¹NITRIFICATION MONITORING DATA SUMMARY REPORT CITY OF LOMITA, System No. 1910073

Month, Year: 9/23/2015

#	² C	Sample I.D	Location	Sample Date	Collection Time	Temp	Combined Chlorine	Free Chlorine	Total Ammonia	Nitrite	PH	Comments/Corrective Actions/Others
	Uni	ts→		MM/DD/YYYY	am/pm	°C	mg/L	mg/L	mg/L	mg/L		
1	D	S13-003	1948 W. 252 nd St	9/23/2015	~1030Hrs	27.5	0.82	0.38	0.25	0.042	8.0	
2	D	S13-004	24632 S Moon Av	9/23/2015	~1050Hrs	27.4	1.66	0.31	0.17	0.055	8.2	
3	D	S13-008	25417 Pennsylvania Av	9/23/2015	~1045Hrs	27.9	0.43	0.24	0.31	0.090	8.2	
4	D	А	2052 Dawn St	9/23/2015	~1125Hrs	27.2	0.00	1.4	0.00	0.003	8.2	
5	D		Reservoir	9/23/2015	~1025Hrs	26.0	3.42	0.73	0.94	0.002	8.2	
6	D	13-1	1912 W. 259 th PI	9/23/2015	~0750Hrs	27.0	2.20	0.52	0.46	0.004	8.2	
7	D	13-2	26314 S Monte Vta.	9/23/2015	~0805HRs	26.7	2.20	0.40	0.48	0.006	8.3	
8	D	13-5	2500 PCH	9/23/2015	~0735Hrs	27.0	1.86	0.90	0.39	0.005	8.2	
Ν	Notes: ² C for Sample Code; ³ Z for Zone.											

¹This Report needs to be submitted to the Drinking Water Division of the State Water Resources Control Board by the 10th of the month following sampling.