



Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Bay Area: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Central Valley: 9090 Union Park Way, Suite 113, Elk Grove, CA 95624 • Phone: (916) 686-5190 • Fax: (916) 686-5192

ELAP Certificates 1551, 2728, and 2922

30 December 2014

West Bay Sanitary District

Attn: John Simonetti

500 Laurel Street

Menlo Park, CA 94025

RE: Reclaimed Study

Work Order: 14L1268

Enclosed are the results of analyses for samples received by the laboratory on 12/12/14 22:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips
Project Manager



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CHEMICAL EXAMINATION REPORT

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West Bay Sanitary District
500 Laurel Street
Menlo Park, CA 94025
Attn: John Simonetti

Report Date: 12/30/14 10:35
Project No: -
Project ID: Reclaimed Study

Order Number
14L1268

Receipt Date/Time
12/12/2014 22:10

Client Code
WESTBAY

Client PO/Reference

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Alpine Rd 121114-A	14L1268-01	Water	12/12/14 00:00	12/12/14 22:10
Sand Hill Rd 121114-B	14L1268-02	Water	12/12/14 00:00	12/12/14 22:10



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	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
Alpine Rd 121114-A (14L1268-01)			Sample Type: Water		Sampled: 12/12/14 00:00			
Metals by EPA 200 Series Methods								
Boron	EPA 200.7	AL41816	12/18/14 12:51	12/29/14 13:36	1	0.22 mg/L	0.050	
Calcium	"	"	"	"	"	30 "	1.0	
Magnesium	"	"	"	"	"	11 "	1.0	
Sodium	"	"	"	"	"	54 "	1.0	
Conventional Chemistry Parameters by APHA/EPA Methods								
Ammonia as NH3	SM4500NH3C	AL41775	12/18/14 08:00	12/18/14 16:30	1	34 mg/L	0.50	
Biochemical Oxygen Demand	SM5210B	AL41730	12/17/14 07:35	12/22/14 10:30	"	310 "	5.0	T-2
Total Dissolved Solids	SM2540C	AL41621	12/16/14 10:30	12/18/14 08:30	"	340 "	10	
Total Suspended Solids	SM2540D	AL41819	12/18/14 16:00	12/19/14 16:30	"	230 "	1.0	
Silica	SM4500-SiO2 C	AL41734	12/17/14 08:30	12/17/14 10:45	"	17 "	1.0	
Total Kjeldahl Nitrogen	SM4500-Norg B	AL41903	12/19/14 07:12	12/22/14 09:42	"	46 "	1.0	
Total Nitrogen	SM4500-N	AL42271	12/22/14 16:25	12/23/14 08:22	"	46 "	1.0	
Phosphorus, total	SM4500-P E	AL42407	12/24/14 08:15	12/24/14 12:18	20	5.0 "	0.80	
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AL41320	12/13/14 17:21	12/13/14 17:21	10	56 mg/L	5.0	
Nitrate as N	"	"	"	12/13/14 18:05	1	ND "	0.20	
Nitrite as N	"	"	12/13/14 18:05	"	"	ND "	0.20	
Sand Hill Rd 121114-B (14L1268-02)			Sample Type: Water		Sampled: 12/12/14 00:00			
Metals by EPA 200 Series Methods								
Boron	EPA 200.7	AL41816	12/18/14 12:51	12/29/14 13:40	1	0.17 mg/L	0.050	
Calcium	"	"	"	"	"	54 "	1.0	
Magnesium	"	"	"	"	"	18 "	1.0	
Sodium	"	"	"	"	"	220 "	1.0	



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	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
Sand Hill Rd 121114-B (14L1268-02)			Sample Type: Water		Sampled: 12/12/14 00:00			
Conventional Chemistry Parameters by APHA/EPA Methods								
Ammonia as NH3	SM4500NH3C	AL41775	12/18/14 08:00	12/18/14 16:30	1	22 mg/L	0.50	T-2
Biochemical Oxygen Demand	SM5210B	AL41730	12/17/14 07:35	12/22/14 10:30	"	240 "	5.0	
Total Dissolved Solids	SM2540C	AL41621	12/16/14 10:30	12/18/14 08:30	"	870 "	10	
Total Suspended Solids	SM2540D	AL41819	12/18/14 16:00	12/19/14 16:30	"	460 "	1.0	
Silica	SM4500-SiO2 C	AL41734	12/17/14 08:30	12/17/14 10:45	"	18 "	1.0	
Total Kjeldahl Nitrogen	SM4500-Norg B	AL41903	12/20/14 07:12	12/22/14 09:42	"	38 "	1.0	
Total Nitrogen	SM4500-N	AL42271	12/22/14 16:25	12/23/14 08:22	"	39 "	1.0	
Phosphorus, total	SM4500-P E	AL42407	12/24/14 08:15	12/24/14 12:18	20	4.1 "	0.80	
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AL41320	12/13/14 16:52	12/13/14 16:52	25	310 mg/L	12	
Nitrate as N	"	"	12/13/14 17:06	12/13/14 17:06	1	1.1 "	0.20	
Nitrite as N	"	"	"	"	"	ND "	0.20	



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Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AL41816 - Metals Digest										
Blank (AL41816-BLK1)				Prepared: 12/18/14 Analyzed: 12/24/14						
Boron	ND	0.050	mg/L							
Calcium	ND	1.0	"							
Magnesium	ND	1.0	"							
Sodium	ND	1.0	"							
LCS (AL41816-BS1)				Prepared: 12/18/14 Analyzed: 12/24/14						
Boron	0.368	0.050	mg/L	0.400		92.1	85-115			
Calcium	7.14	1.0	"	8.00		89.3	85-115			
Magnesium	7.14	1.0	"	8.00		89.2	85-115			
Sodium	7.37	1.0	"	8.00		92.2	85-115			
Duplicate (AL41816-DUP1)				Source: 14L1242-03		Prepared: 12/18/14 Analyzed: 12/24/14				
Boron	ND	0.050	mg/L		ND				20	
Calcium	ND	1.0	"		ND				20	
Magnesium	ND	1.0	"		ND				20	
Sodium	ND	1.0	"		ND				20	
Matrix Spike (AL41816-MS1)				Source: 14L1242-03		Prepared: 12/18/14 Analyzed: 12/24/14				
Boron	0.399	0.050	mg/L	0.400	ND	99.7	70-130			
Calcium	7.98	1.0	"	8.00	ND	99.4	70-130			
Magnesium	8.05	1.0	"	8.00	ND	101	70-130			
Sodium	8.07	1.0	"	8.00	ND	101	70-130			
Matrix Spike (AL41816-MS2)				Source: 14L1236-01		Prepared: 12/18/14 Analyzed: 12/24/14				
Boron	0.434	0.050	mg/L	0.400	ND	98.8	70-130			
Calcium	14.4	1.0	"	8.00	5.73	108	70-130			
Magnesium	10.5	1.0	"	8.00	2.43	101	70-130			
Sodium	13.0	1.0	"	8.00	5.09	99.0	70-130			



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Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AL41816 - Metals Digest										
Matrix Spike Dup (AL41816-MSD1)		Source: 14L1242-03		Prepared: 12/18/14 Analyzed: 12/24/14						
Boron	0.380	0.050	mg/L	0.400	ND	95.0	70-130	4.87	20	
Calcium	7.72	1.0	"	8.00	ND	96.3	70-130	3.25	20	
Magnesium	7.63	1.0	"	8.00	ND	95.4	70-130	5.28	20	
Sodium	7.78	1.0	"	8.00	ND	97.2	70-130	3.69	20	



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Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AL41621 - General Preparation										
Blank (AL41621-BLK1)				Prepared: 12/16/14 Analyzed: 12/18/14						
Total Dissolved Solids	ND	10	mg/L							
Duplicate (AL41621-DUP1)				Source: 14L1260-04 Prepared: 12/16/14 Analyzed: 12/18/14						
Total Dissolved Solids	380	10	mg/L		368			3.21	15	
Duplicate (AL41621-DUP2)				Source: 14L1271-03 Prepared: 12/16/14 Analyzed: 12/18/14						
Total Dissolved Solids	226	10	mg/L		225			0.443	15	
Batch AL41730 - General Preparation										
Blank (AL41730-BLK1)				Prepared: 12/17/14 Analyzed: 12/22/14						
Biochemical Oxygen Demand	ND	5.0	mg/L							
Blank (AL41730-BLK2)				Prepared: 12/17/14 Analyzed: 12/22/14						
Biochemical Oxygen Demand	ND	5.0	mg/L							
LCS (AL41730-BS1)				Prepared: 12/17/14 Analyzed: 12/22/14						
Biochemical Oxygen Demand	196	5.0	mg/L	200		98.0	84-115			
Duplicate (AL41730-DUP1)				Source: 14L1390-01 Prepared: 12/17/14 Analyzed: 12/22/14						
Biochemical Oxygen Demand	202	5.0	mg/L		204			0.985	30	
Batch AL41734 - General Preparation										
Blank (AL41734-BLK1)				Prepared & Analyzed: 12/17/14						
Silica	ND	1.0	mg/L							



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Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AL41734 - General Preparation										
LCS (AL41734-BS1)				Prepared & Analyzed: 12/17/14						
Silica	9.92	1.0	mg/L	10.0		99.2	80-120			
LCS Dup (AL41734-BSD1)				Prepared & Analyzed: 12/17/14						
Silica	9.73	1.0	mg/L	10.0		97.3	80-120	1.97	15	
Duplicate (AL41734-DUP1)				Source: 14L1242-03		Prepared & Analyzed: 12/17/14				
Silica	ND	1.0	mg/L		ND				20	
Matrix Spike (AL41734-MS1)				Source: 14L1242-03		Prepared & Analyzed: 12/17/14				
Silica	4.90	1.0	mg/L	5.00	ND	98.0	85-115			
Matrix Spike Dup (AL41734-MSD1)				Source: 14L1242-03		Prepared & Analyzed: 12/17/14				
Silica	4.98	1.0	mg/L	5.00	ND	99.5	85-115	1.57	15	
Batch AL41775 - General Preparation										
Blank (AL41775-BLK1)				Prepared & Analyzed: 12/18/14						
Ammonia as NH3	ND	0.20	mg/L							
LCS (AL41775-BS1)				Prepared & Analyzed: 12/18/14						
Ammonia as NH3	6.17	0.20	mg/L	6.10		101	90-110			
LCS Dup (AL41775-BSD1)				Prepared & Analyzed: 12/18/14						
Ammonia as NH3	6.17	0.20	mg/L	6.10		101	90-110	0.00	10	
Batch AL41819 - General Preparation										
Blank (AL41819-BLK1)				Prepared: 12/18/14 Analyzed: 12/19/14						
Total Suspended Solids	ND	1.0	mg/L							



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Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AL41819 - General Preparation										
Duplicate (AL41819-DUP1)				Source: 14L1268-01		Prepared: 12/18/14 Analyzed: 12/19/14				
Total Suspended Solids	204	1.0	mg/L		229			11.8	30	
Duplicate (AL41819-DUP2)				Source: 14L1268-02		Prepared: 12/18/14 Analyzed: 12/19/14				
Total Suspended Solids	449	1.0	mg/L		464			3.41	30	
Batch AL41903 - General Prep										
LCS (AL41903-BS1)				Prepared & Analyzed: 12/19/14						
Total Kjeldahl Nitrogen	2.95	1.0	mg/L	2.98		99.0	80-120			
LCS Dup (AL41903-BSD1)				Prepared & Analyzed: 12/19/14						
Total Kjeldahl Nitrogen	2.95	1.0	mg/L	2.98		99.0	80-120	0.00	20	
Matrix Spike (AL41903-MS1)				Source: 14L1334-06		Prepared & Analyzed: 12/22/14				
Total Kjeldahl Nitrogen	3.69	1.0	mg/L	2.98	ND	97.3	75-125			
Batch AL42407 - General Prep										
Blank (AL42407-BLK1)				Prepared & Analyzed: 12/24/14						
Phosphorus, total	ND	0.040	mg/L							
LCS (AL42407-BS1)				Prepared & Analyzed: 12/24/14						
Phosphorus, total	0.197	0.040	mg/L	0.200		98.4	85-115			
Duplicate (AL42407-DUP1)				Source: 14L1357-11		Prepared & Analyzed: 12/24/14				
Phosphorus, total	0.0514	0.040	mg/L		0.0540			4.87	20	



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Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AL42407 - General Prep										
Matrix Spike (AL42407-MS1)		Source: 14L1357-11			Prepared & Analyzed: 12/24/14					
Phosphorus, total	0.220	0.040	mg/L	0.200	0.0540	82.9	70-130			
Matrix Spike Dup (AL42407-MSD1)		Source: 14L1357-11			Prepared & Analyzed: 12/24/14					
Phosphorus, total	0.220	0.040	mg/L	0.200	0.0540	82.9	70-130	0.00	20	



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Anions by EPA Method 300.0 - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AL41320 - General Preparation										
Blank (AL41320-BLK1)				Prepared & Analyzed: 12/13/14						
Nitrite as N	ND	0.20	mg/L							
Chloride	ND	0.50	"							
Nitrate as N	ND	0.20	"							
LCS (AL41320-BS1)				Prepared & Analyzed: 12/13/14						
Nitrate as N	5.40	0.20	mg/L	5.56		97.1	90-110			
Chloride	10.9	0.50	"	11.1		97.8	90-110			
Nitrite as N	5.57	0.20	"	5.56		100	90-110			
Duplicate (AL41320-DUP1)				Source: 14L1234-01		Prepared & Analyzed: 12/13/14				
Nitrate as N	ND	0.20	mg/L		0.285				20	
Chloride	0.918	0.50	"		0.935			1.83	20	
Nitrite as N	ND	0.20	"		ND				20	
Matrix Spike (AL41320-MS1)				Source: 14L1234-01		Prepared & Analyzed: 12/13/14				
Nitrate as N	5.66	0.20	mg/L	5.56	0.285	96.7	80-120			
Chloride	11.9	0.50	"	11.1	0.935	98.9	80-120			
Nitrite as N	5.69	0.20	"	5.56	ND	101	80-120			
Matrix Spike (AL41320-MS2)				Source: 14L1271-05		Prepared & Analyzed: 12/13/14				
Nitrate as N	6.04	1.0	mg/L	5.56	ND	91.4	80-120			
Chloride	19.6	2.5	"	11.1	9.42	91.3	80-120			
Nitrite as N	5.25	1.0	"	5.56	ND	94.5	80-120			
Matrix Spike Dup (AL41320-MSD1)				Source: 14L1234-01		Prepared & Analyzed: 12/13/14				
Nitrate as N	5.69	0.20	mg/L	5.56	0.285	97.3	80-120	0.623	20	
Chloride	12.0	0.50	"	11.1	0.935	99.6	80-120	0.697	20	
Nitrite as N	5.74	0.20	"	5.56	ND	101	80-120	0.836	20	



Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

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Central Valley: 9090 Union Park Way, Suite 113, Elk Grove, CA 95624 • Phone: (916) 686-5190 • Fax: (916) 686-5192

CHEMICAL EXAMINATION REPORT

Page 11 of 11

West Bay Sanitary District
500 Laurel Street
Menlo Park, CA 94025
Attn: John Simonetti

Report Date: 12/30/14 10:35
Project No: -
Project ID: Reclaimed Study

Order Number

14L1268

Receipt Date/Time

12/12/2014 22:10

Client Code

WESTBAY

Client PO/Reference

Notes and Definitions

T-2	Sample analyzed outside of recommended holding time per client.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
PQL	Practical Quantitation Limit



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**Service Center
& Micro Lab:**

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Chain of Custody Record

Reports and Invoices will be delivered by e-mail in .pdf format.

Lab No. 14L268 Page of

[illegible]

Sean Foley

From: David Pingatore <david@alpha-labs.com>
Sent: Thursday, December 11, 2014 7:43 AM
To: 'Sean Foley'; 'Robbie Phillips'
Subject: West Bay tests

- Silica – \$25
- Sodium – \$15
- Calcium – \$15
- Magnesium – \$15
- Total Dissolved Solids (TDS) – \$25
- Boron – \$15
- Chloride – \$25
- Total Nitrogen (TN) – \$100
- Ammonia – \$30
- Total Kjeldhal Nitrogen (TKN) – included with total nitrogen cost
- Total Phosphorous – \$30
- BOD – \$35
- TSS – \$25

Robbie

From: John Simonetti
Sent: Monday, December 01, 2014 8:04 AM
To: Mark Pratlun
Subject: FW: Sample Parameters for Facilities Plan Water Quality (Raw Wastewater - Effluent Test for Reclaimed Water Project)

Robbie,

We would like a bid for testing for the items on the list below.

It would comprise of one composite sample per day, Dec.10, 11,12,
If you cannot perform any of the test listed below, we need to know ASAP!

Can you provide containers?

To review the sample parameters we need for the Facilities Plan:

- Silica – \$25
- Sodium – \$15
- Calcium – \$15
- Magnesium – \$15
- Total Dissolved Solids (TDS) – \$25
- Boron – \$15
- Chloride – \$25