



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

05 May 2015

West Bay Sanitary District

Attn: Mark Pratulon

500 Laurel Street

Menlo Park, CA 94025

RE: Reclaimed Study

Work Order: 15D2010

Enclosed are the results of analyses for samples received by the laboratory on 04/17/15 21:40. 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: Mark Praturlon

Report Date: 05/05/15 08:21
Project No: -
Project ID: Reclaimed Study

Order Number
15D2010

Receipt Date/Time
04/17/2015 21:40

Client Code
WESTBAY

Client PO/Reference

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Alpine Rd 041615-A	15D2010-01	Water	04/16/15 00:00	04/17/15 21:40
Sand Hill Rd 041615-B	15D2010-02	Water	04/16/15 00:00	04/17/15 21:40



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	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
Alpine Rd 041615-A (15D2010-01)								
			Sample Type: Water		Sampled: 04/16/15 00:00			
Metals by EPA 200 Series Methods								
Boron	EPA 200.7	AD52758	04/28/15 09:20	04/30/15 16:38	1	0.32 mg/L	0.050	
Calcium	"	"	"	"	"	27 "	1.0	
Magnesium	"	"	"	"	"	7.2 "	1.0	
Sodium	"	"	"	"	"	74 "	1.0	
Conventional Chemistry Parameters by APHA/EPA Methods								
Ammonia as NH3	SM4500NH3C	AD52314	04/23/15 08:04	04/27/15 12:51	1	38 mg/L	0.50	
Biochemical Oxygen Demand	SM5210B	AD52266	04/17/15 18:00	04/22/15 12:00	"	310 "	5.0	
Total Dissolved Solids	SM2540C	AD52232	04/22/15 10:15	04/24/15 14:00	"	400 "	10	
Total Suspended Solids	SM2540D	AD52227	04/22/15 10:00	04/24/15 10:00	"	480 "	1.0	
Silica	SM4500-SiO2 C	AD52344	04/23/15 15:00	04/23/15 17:00	2	16 "	2.0	
Total Kjeldahl Nitrogen	SM4500-Norg B	AD53002	05/04/15 06:24	05/04/15 14:33	1	57 "	1.0	
Total Nitrogen	SM4500-N	AD52947	04/29/15 12:44	05/04/15 15:43	"	57 "	1.0	
Phosphorus, total	SM4500-P E	AD52814	04/28/15 08:00	04/28/15 10:28	5	7.0 "	2.0	
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AD52046	04/20/15 12:40	04/20/15 12:40	10	93 mg/L	5.0	
Nitrate as N	"	"	04/20/15 12:56	04/20/15 12:56	1	ND "	0.20	T-2
Nitrite as N	"	"	"	"	"	ND "	0.20	T-2
Sand Hill Rd 041615-B (15D2010-02)								
			Sample Type: Water		Sampled: 04/16/15 00:00			
Metals by EPA 200 Series Methods								
Boron	EPA 200.7	AD52758	04/28/15 09:20	04/30/15 16:42	1	0.32 mg/L	0.050	
Calcium	"	"	"	"	"	24 "	1.0	
Magnesium	"	"	"	"	"	14 "	1.0	
Sodium	"	"	"	"	"	71 "	1.0	



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	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
Sand Hill Rd 041615-B (15D2010-02)			Sample Type: Water		Sampled: 04/16/15 00:00			
Conventional Chemistry Parameters by APHA/EPA Methods								
Ammonia as NH3	SM4500NH3C	AD52314	04/23/15 08:04	04/27/15 12:51	1	58 mg/L	0.50	
Biochemical Oxygen Demand	SM5210B	AD52266	04/17/15 18:00	04/22/15 12:00	"	320 "	5.0	
Total Dissolved Solids	SM2540C	AD52232	04/22/15 10:15	04/24/15 14:00	"	450 "	10	
Total Suspended Solids	SM2540D	AD52227	04/22/15 10:00	04/24/15 10:00	"	400 "	1.0	
Silica	SM4500-SiO2 C	AD52344	04/23/15 15:00	04/23/15 17:00	2	16 "	2.0	
Total Kjeldahl Nitrogen	SM4500-Norg B	AD53002	05/04/15 06:24	05/04/15 14:33	1	76 "	1.0	
Total Nitrogen	SM4500-N	AD52947	04/29/15 12:44	05/04/15 15:43	"	76 "	1.0	
Phosphorus, total	SM4500-P E	AD52814	04/28/15 08:00	04/28/15 10:28	5	7.7 "	2.0	
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AD52046	04/20/15 13:12	04/20/15 13:12	10	84 mg/L	5.0	
Nitrate as N	"	"	04/20/15 13:29	04/20/15 13:29	1	ND "	0.20	T-2
Nitrite as N	"	"	"	"	"	ND "	0.20	T-2



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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 AD52758 - Metals Digest										
Blank (AD52758-BLK1)				Prepared: 04/27/15 Analyzed: 04/29/15						
Boron	ND	0.050	mg/L							
Calcium	ND	1.0	"							
Magnesium	ND	1.0	"							
Sodium	ND	1.0	"							
LCS (AD52758-BS1)				Prepared: 04/27/15 Analyzed: 04/29/15						
Boron	0.435	0.050	mg/L	0.400		109	85-115			
Calcium	8.40	1.0	"	8.00		105	85-115			
Magnesium	8.42	1.0	"	8.00		105	85-115			
Sodium	8.83	1.0	"	8.00		110	85-115			
Duplicate (AD52758-DUP1)				Source: 15D2089-01		Prepared: 04/27/15 Analyzed: 04/29/15				
Boron	ND	0.050	mg/L		ND				20	
Calcium	14.3	1.0	"		14.3			0.286	20	
Magnesium	7.05	1.0	"		7.17			1.77	20	
Sodium	6.26	1.0	"		6.21			0.910	20	
Matrix Spike (AD52758-MS1)				Source: 15D2089-01		Prepared: 04/27/15 Analyzed: 04/29/15				
Boron	0.448	0.050	mg/L	0.400	ND	112	70-130			
Calcium	24.7	1.0	"	8.00	14.3	130	70-130			
Magnesium	16.3	1.0	"	8.00	7.17	114	70-130			
Sodium	15.3	1.0	"	8.00	6.21	113	70-130			
Matrix Spike (AD52758-MS2)				Source: 15D2079-01		Prepared: 04/27/15 Analyzed: 04/29/15				
Boron	0.451	0.050	mg/L	0.400	ND	105	70-130			
Calcium	111	1.0	"	8.00	111	NR	70-130			QM-4X
Magnesium	70.0	1.0	"	8.00	64.0	74.7	70-130			
Sodium	33.9	1.0	"	8.00	28.9	62.9	70-130			QM-01



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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 AD52758 - Metals Digest										
Matrix Spike Dup (AD52758-MSD1)		Source: 15D2089-01		Prepared: 04/27/15 Analyzed: 04/29/15						
Boron	0.412	0.050	mg/L	0.400	ND	103	70-130	8.45	20	
Calcium	21.9	1.0	"	8.00	14.3	95.0	70-130	11.9	20	
Magnesium	15.0	1.0	"	8.00	7.17	98.0	70-130	8.13	20	
Sodium	13.9	1.0	"	8.00	6.21	96.3	70-130	9.35	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 AD52227 - General Preparation										
Blank (AD52227-BLK1)				Prepared: 04/22/15 Analyzed: 04/24/15						
Total Suspended Solids	ND	1.0	mg/L							
Duplicate (AD52227-DUP1)				Source: 15D2010-01 Prepared: 04/22/15 Analyzed: 04/24/15						
Total Suspended Solids	423	1.0	mg/L		483			13.2	30	
Duplicate (AD52227-DUP2)				Source: 15D2010-02 Prepared: 04/22/15 Analyzed: 04/24/15						
Total Suspended Solids	412	1.0	mg/L		402			2.45	30	
Batch AD52232 - General Preparation										
Blank (AD52232-BLK1)				Prepared: 04/22/15 Analyzed: 04/24/15						
Total Dissolved Solids	ND	10	mg/L							
Duplicate (AD52232-DUP1)				Source: 15D1905-03 Prepared: 04/22/15 Analyzed: 04/24/15						
Total Dissolved Solids	492	10	mg/L		550			11.1	15	
Duplicate (AD52232-DUP2)				Source: 15D2126-01 Prepared: 04/22/15 Analyzed: 04/24/15						
Total Dissolved Solids	476	10	mg/L		496			4.12	15	
Batch AD52266 - General Preparation										
Blank (AD52266-BLK1)				Prepared: 04/17/15 Analyzed: 04/22/15						
Biochemical Oxygen Demand	ND	5.0	mg/L							
Blank (AD52266-BLK2)				Prepared: 04/17/15 Analyzed: 04/22/15						
Biochemical Oxygen Demand	ND	5.0	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 AD52266 - General Preparation										
LCS (AD52266-BS1)				Prepared: 04/14/15 Analyzed: 04/19/15						
Biochemical Oxygen Demand	190	5.0	mg/L	200		95.2	84-115			
Duplicate (AD52266-DUP1)				Source: 15D1954-01		Prepared: 04/17/15 Analyzed: 04/22/15				
Biochemical Oxygen Demand	ND	5.0	mg/L		ND				30	
Batch AD52314 - General Preparation										
Blank (AD52314-BLK1)				Prepared: 04/23/15 Analyzed: 04/27/15						
Ammonia as NH3	ND	0.50	mg/L							
Blank (AD52314-BLK2)				Prepared: 04/23/15 Analyzed: 04/27/15						
Ammonia as NH3	ND	0.50	mg/L							
LCS (AD52314-BS1)				Prepared: 04/23/15 Analyzed: 04/27/15						
Ammonia as NH3	5.85	0.50	mg/L	6.10		96.0	90-110			
LCS Dup (AD52314-BSD1)				Prepared: 04/23/15 Analyzed: 04/27/15						
Ammonia as NH3	5.75	0.50	mg/L	6.10		94.2	90-110	1.83	10	
Matrix Spike (AD52314-MS1)				Source: 15D2095-01		Prepared: 04/23/15 Analyzed: 04/27/15				
Ammonia as NH3	11.5	0.50	mg/L	12.2	ND	94.2	85-115			
Matrix Spike Dup (AD52314-MSD1)				Source: 15D2095-01		Prepared: 04/23/15 Analyzed: 04/27/15				
Ammonia as NH3	11.7	0.50	mg/L	12.2	ND	96.0	85-115	1.84	20	
Batch AD52344 - General Preparation										
Blank (AD52344-BLK1)				Prepared & Analyzed: 04/23/15						
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 AD52344 - General Preparation										
LCS (AD52344-BS1)				Prepared & Analyzed: 04/23/15						
Silica	10.8	1.0	mg/L	10.0		108	80-120			
LCS Dup (AD52344-BSD1)				Prepared & Analyzed: 04/23/15						
Silica	10.3	1.0	mg/L	10.0		103	80-120	5.01	15	
Duplicate (AD52344-DUP1)				Source: 15D2010-02		Prepared & Analyzed: 04/23/15				
Silica	17.0	2.0	mg/L		16.3			3.71	20	
Matrix Spike (AD52344-MS1)				Source: 15D2010-02		Prepared & Analyzed: 04/23/15				
Silica	25.1	4.0	mg/L	10.0	16.3	88.0	85-115			
Matrix Spike Dup (AD52344-MSD1)				Source: 15D2010-02		Prepared & Analyzed: 04/23/15				
Silica	25.4	4.0	mg/L	10.0	16.3	90.3	85-115	0.917	15	
Batch AD52814 - General Prep										
Blank (AD52814-BLK1)				Prepared & Analyzed: 04/28/15						
Phosphorus, total	ND	0.040	mg/L							
LCS (AD52814-BS1)				Prepared & Analyzed: 04/28/15						
Phosphorus, total	0.195	0.040	mg/L	0.200		97.6	85-115			
Duplicate (AD52814-DUP1)				Source: 15D2147-03		Prepared & Analyzed: 04/28/15				
Phosphorus, total	ND	0.040	mg/L		ND				20	
Matrix Spike (AD52814-MS1)				Source: 15D2147-03		Prepared & Analyzed: 04/28/15				
Phosphorus, total	0.192	0.040	mg/L	0.200	ND	96.2	70-130			



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Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AD52814 - General Prep										
Matrix Spike Dup (AD52814-MSD1)		Source: 15D2147-03		Prepared & Analyzed: 04/28/15						
Phosphorus, total	0.192	0.040	mg/L	0.200	ND	96.2	70-130	0.00	20	
Batch AD53002 - General Prep										
LCS (AD53002-BS1)		Prepared & Analyzed: 05/01/15								
Total Kjeldahl Nitrogen	2.95	1.0	mg/L	2.98		99.0	80-120			
LCS Dup (AD53002-BSD1)		Prepared & Analyzed: 05/01/15								
Total Kjeldahl Nitrogen	2.95	1.0	mg/L	2.98		99.0	80-120	0.00	20	
Matrix Spike (AD53002-MS1)		Source: 15D1910-02		Prepared & Analyzed: 05/01/15						
Total Kjeldahl Nitrogen	3.87	1.0	mg/L	2.98	1.14	91.7	75-125			
Matrix Spike Dup (AD53002-MSD1)		Source: 15D1910-02		Prepared & Analyzed: 05/01/15						
Total Kjeldahl Nitrogen	3.96	1.0	mg/L	2.98	1.14	94.8	75-125	2.35	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 AD52046 - General Preparation										
Blank (AD52046-BLK1)				Prepared & Analyzed: 04/20/15						
Nitrate as N	ND	0.20	mg/L							
Nitrite as N	ND	0.20	"							
Chloride	ND	0.50	"							
LCS (AD52046-BS1)				Prepared & Analyzed: 04/20/15						
Nitrite as N	5.46	0.20	mg/L	5.56		98.3	90-110			
Nitrate as N	5.69	0.20	"	5.56		102	90-110			
Chloride	11.3	0.50	"	11.1		101	90-110			
Duplicate (AD52046-DUP1)				Source: 15D2010-02		Prepared & Analyzed: 04/20/15				
Nitrite as N	ND	0.20	mg/L		ND				20	
Chloride	82.6	5.0	"		83.9			1.47	20	
Nitrate as N	ND	0.20	"		ND				20	
Matrix Spike (AD52046-MS1)				Source: 15D2010-02		Prepared & Analyzed: 04/20/15				
Chloride	95.3	5.0	mg/L	11.1	83.9	102	80-120			
Nitrate as N	5.49	2.0	"	5.56	ND	97.7	80-120			
Nitrite as N	5.54	2.0	"	5.56	ND	99.8	80-120			
Matrix Spike (AD52046-MS2)				Source: 15D2075-01		Prepared & Analyzed: 04/20/15				
Chloride	17.3	2.5	mg/L	11.1	6.26	99.6	80-120			
Nitrate as N	5.89	1.0	"	5.56	ND	99.2	80-120			
Nitrite as N	5.48	1.0	"	5.56	ND	98.7	80-120			
Matrix Spike Dup (AD52046-MSD1)				Source: 15D2010-02		Prepared & Analyzed: 04/20/15				
Chloride	94.8	5.0	mg/L	11.1	83.9	98.3	80-120	0.491	20	
Nitrate as N	5.46	2.0	"	5.56	ND	97.2	80-120	0.549	20	
Nitrite as N	5.52	2.0	"	5.56	ND	99.4	80-120	0.402	20	



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CHEMICAL EXAMINATION REPORT

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West Bay Sanitary District
500 Laurel Street
Menlo Park, CA 94025
Attn: Mark Praturlon

Report Date: 05/05/15 08:21
Project No: -
Project ID: Reclaimed Study

Order Number

15D2010

Receipt Date/Time

04/17/2015 21:40

Client Code

WESTBAY

Client PO/Reference

Notes and Definitions

- QM-01 The spike recovery for this QC sample is outside of established control limits possibly due to a sample matrix interference.
- QM-4X The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
- 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

15D2010

- 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