



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

08 June 2015

West Bay Sanitary District

Attn: Mark Pratulon

500 Laurel Street

Menlo Park, CA 94025

RE: Reclaimed Study

Work Order: 15E2157

Enclosed are the results of analyses for samples received by the laboratory on 05/21/15 22:50. 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: 06/08/15 10:35
Project No: -
Project ID: Reclaimed Study

Order Number
15E2157

Receipt Date/Time
05/21/2015 22:50

Client Code
WESTBAY

Client PO/Reference

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
052115-A Alpine Rd.	15E2157-01	Water	05/21/15 00:00	05/21/15 22:50
052115-B Sand Hill Rd.	15E2157-02	Water	05/21/15 00:00	05/21/15 22:50



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	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
052115-A Alpine Rd. (15E2157-01)								
			Sample Type: Water		Sampled: 05/21/15 00:00			
Metals by EPA 200 Series Methods								
Boron	EPA 200.7	AE52844	05/28/15 13:27	06/04/15 16:02	1	0.33 mg/L	0.050	
Calcium	"	"	"	"	"	27 "	1.0	
Magnesium	"	"	"	"	"	7.6 "	1.0	
Sodium	"	"	"	"	"	72 "	1.0	
Conventional Chemistry Parameters by APHA/EPA Methods								
Ammonia as NH3	SM4500NH3C	AF50135	06/01/15 08:00	06/01/15 17:00	1	60 mg/L	0.50	
Biochemical Oxygen Demand	SM5210B	AE52208	05/22/15 11:00	05/27/15 11:00	"	590 "	5.0	
Total Dissolved Solids	SM2540C	AE52816	05/28/15 11:15	06/01/15 13:00	"	430 "	10	
Total Suspended Solids	SM2540D	AE52647	05/26/15 10:30	05/27/15 16:00	"	680 "	1.0	
Silica	SM4500-SiO2 C	AE52926	05/29/15 13:45	05/29/15 17:30	"	16 "	1.0	
Total Kjeldahl Nitrogen	SM4500-Norg B	AE52912	06/02/15 08:52	06/02/15 12:53	"	74 "	1.0	
Total Nitrogen	SM4500-N	AE52835	05/28/15 11:19	06/02/15 13:45	"	74 "	1.0	
Phosphorus, total	SM4500-P E	AF50504	06/05/15 08:20	06/05/15 10:45	5	9.0 "	2.0	
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AE52150	05/22/15 10:17	05/22/15 10:17	10	74 mg/L	5.0	
Nitrate as N	"	"	05/22/15 10:33	05/22/15 10:33	1	ND "	0.20	
Nitrite as N	"	"	"	"	"	ND "	0.20	
052115-B Sand Hill Rd. (15E2157-02)								
			Sample Type: Water		Sampled: 05/21/15 00:00			
Metals by EPA 200 Series Methods								
Boron	EPA 200.7	AE52844	05/28/15 13:27	06/04/15 16:07	1	0.18 mg/L	0.050	
Calcium	"	"	"	"	"	16 "	1.0	
Magnesium	"	"	"	"	"	5.9 "	1.0	
Sodium	"	"	"	"	"	62 "	1.0	



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	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
052115-B Sand Hill Rd. (15E2157-02)			Sample Type: Water		Sampled: 05/21/15 00:00			
Conventional Chemistry Parameters by APHA/EPA Methods								
Ammonia as NH3	SM4500NH3C	AF50135	06/01/15 08:00	06/01/15 17:00	1	47 mg/L	0.50	
Biochemical Oxygen Demand	SM5210B	AE52208	05/22/15 11:00	05/27/15 11:00	"	400 "	5.0	
Total Dissolved Solids	SM2540C	AE52816	05/28/15 11:15	06/01/15 16:45	"	290 "	10	
Total Suspended Solids	SM2540D	AE52647	05/26/15 10:30	05/27/15 16:00	"	340 "	1.0	
Silica	SM4500-SiO2 C	AE52926	05/29/15 13:45	05/29/15 17:30	"	20 "	1.0	
Total Kjeldahl Nitrogen	SM4500-Norg B	AE52912	06/02/15 08:52	06/02/15 12:53	"	57 "	1.0	
Total Nitrogen	SM4500-N	AE52835	05/28/15 11:19	06/02/15 13:45	"	58 "	1.0	
Phosphorus, total	SM4500-P E	AF50504	06/05/15 08:20	06/05/15 10:45	5	8.4 "	2.0	
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AE52150	05/22/15 10:50	05/22/15 10:50	10	42 mg/L	5.0	
Nitrate as N	"	"	05/22/15 11:06	05/22/15 11:06	1	ND "	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 AE52844 - Metals Digest										
Blank (AE52844-BLK1)				Prepared: 05/28/15 Analyzed: 06/01/15						
Boron	ND	0.050	mg/L							
Calcium	ND	1.0	"							
Magnesium	ND	1.0	"							
Sodium	ND	1.0	"							
LCS (AE52844-BS1)				Prepared: 05/28/15 Analyzed: 06/01/15						
Boron	0.442	0.050	mg/L	0.400		110	85-115			
Calcium	8.28	1.0	"	8.00		103	85-115			
Magnesium	8.39	1.0	"	8.00		105	85-115			
Sodium	8.46	1.0	"	8.00		106	85-115			
Duplicate (AE52844-DUP1)				Source: 15E2194-01		Prepared: 05/28/15 Analyzed: 06/01/15				
Boron	0.292	0.050	mg/L		0.300			2.50	20	
Calcium	26.9	1.0	"		28.6			6.04	20	
Magnesium	2.23	1.0	"		2.43			8.59	20	
Sodium	66.6	1.0	"		70.4			5.52	20	
Matrix Spike (AE52844-MS1)				Source: 15E2194-01		Prepared: 05/28/15 Analyzed: 06/01/15				
Boron	0.706	0.050	mg/L	0.400	0.300	101	70-130			
Calcium	38.1	1.0	"	8.00	28.6	119	70-130			
Magnesium	10.7	1.0	"	8.00	2.43	104	70-130			
Sodium	80.2	1.0	"	8.00	70.4	122	70-130			
Matrix Spike (AE52844-MS2)				Source: 15E2065-01		Prepared: 05/28/15 Analyzed: 06/01/15				
Boron	0.436	0.050	mg/L	0.400	ND	109	70-130			
Calcium	16.6	1.0	"	8.00	6.31	129	70-130			
Magnesium	9.64	1.0	"	8.00	1.34	104	70-130			
Sodium	24.0	1.0	"	8.00	12.7	141	70-130			QM-01



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05/21/2015 22:50

Client Code

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Client PO/Reference

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 AE52844 - Metals Digest										
Matrix Spike Dup (AE52844-MSD1)		Source: 15E2194-01		Prepared: 05/28/15 Analyzed: 06/01/15						
Boron	0.697	0.050	mg/L	0.400	0.300	99.4	70-130	1.17	20	
Calcium	36.5	1.0	"	8.00	28.6	99.7	70-130	4.06	20	
Magnesium	10.7	1.0	"	8.00	2.43	103	70-130	0.357	20	
Sodium	77.4	1.0	"	8.00	70.4	87.5	70-130	3.49	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 AE52208 - General Preparation										
Blank (AE52208-BLK1)				Prepared: 05/22/15 Analyzed: 05/27/15						
Biochemical Oxygen Demand	ND	5.0	mg/L							
Blank (AE52208-BLK2)				Prepared: 05/22/15 Analyzed: 05/27/15						
Biochemical Oxygen Demand	ND	5.0	mg/L							
LCS (AE52208-BS1)				Prepared: 05/21/15 Analyzed: 05/26/15						
Biochemical Oxygen Demand	210	5.0	mg/L	200		105	84-115			
Duplicate (AE52208-DUP1)				Source: 15E2100-01		Prepared: 05/22/15 Analyzed: 05/27/15				
Biochemical Oxygen Demand	315	5.0	mg/L		350			10.5	30	
Batch AE52647 - General Preparation										
Blank (AE52647-BLK1)				Prepared: 05/26/15 Analyzed: 05/27/15						
Total Suspended Solids	ND	1.0	mg/L							
Duplicate (AE52647-DUP1)				Source: 15E2136-01		Prepared: 05/26/15 Analyzed: 05/27/15				
Total Suspended Solids	264	1.0	mg/L		282			6.50	30	
Duplicate (AE52647-DUP2)				Source: 15E2157-02		Prepared: 05/26/15 Analyzed: 05/27/15				
Total Suspended Solids	355	1.0	mg/L		345			2.86	30	
Batch AE52816 - General Preparation										
Blank (AE52816-BLK1)				Prepared: 05/28/15 Analyzed: 06/01/15						
Total Dissolved Solids	ND	10	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 AE52816 - General Preparation										
Duplicate (AE52816-DUP1)				Source: 15E2133-01		Prepared: 05/28/15 Analyzed: 06/01/15				
Total Dissolved Solids	352	10	mg/L		366			3.90	15	
Duplicate (AE52816-DUP2)				Source: 15E2157-01		Prepared: 05/28/15 Analyzed: 06/01/15				
Total Dissolved Solids	388	10	mg/L		426			9.34	15	
Batch AE52912 - General Prep										
LCS (AE52912-BS1)				Prepared: 05/29/15 Analyzed: 06/01/15						
Total Kjeldahl Nitrogen	3.13	1.0	mg/L	2.98		105	80-120			
LCS Dup (AE52912-BSD1)				Prepared: 05/29/15 Analyzed: 06/01/15						
Total Kjeldahl Nitrogen	3.04	1.0	mg/L	2.98		102	80-120	2.98	20	
Matrix Spike (AE52912-MS1)				Prepared & Analyzed: 06/01/15						
Total Kjeldahl Nitrogen	3.41	1.0	mg/L	2.98	ND	107	75-125			
Matrix Spike Dup (AE52912-MSD1)				Prepared & Analyzed: 06/01/15						
Total Kjeldahl Nitrogen	3.32	1.0	mg/L	2.98	ND	104	75-125	2.73	20	
Batch AE52926 - General Preparation										
Blank (AE52926-BLK1)				Prepared & Analyzed: 05/29/15						
Silica	ND	1.0	mg/L							
LCS (AE52926-BS1)				Prepared & Analyzed: 05/29/15						
Silica	10.6	1.0	mg/L	10.0		106	80-120			



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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 AE52926 - General Preparation										
LCS Dup (AE52926-BSD1)				Prepared & Analyzed: 05/29/15						
Silica	10.8	1.0	mg/L	10.0		108	80-120	2.42	15	
Duplicate (AE52926-DUP1)				Source: 15E2378-03		Prepared & Analyzed: 05/29/15				
Silica	9.92	1.0	mg/L		10.1			1.85	20	
Matrix Spike (AE52926-MS1)				Source: 15E2378-03		Prepared & Analyzed: 05/29/15				
Silica	13.9	1.0	mg/L	5.00	10.1	76.1	85-115			QM-05
Matrix Spike Dup (AE52926-MSD1)				Source: 15E2378-03		Prepared & Analyzed: 05/29/15				
Silica	14.2	1.0	mg/L	5.00	10.1	81.3	85-115	1.84	15	QM-05
Batch AF50135 - General Preparation										
Blank (AF50135-BLK1)				Prepared & Analyzed: 06/01/15						
Ammonia as NH3	ND	0.50	mg/L							
LCS (AF50135-BS1)				Prepared & Analyzed: 06/01/15						
Ammonia as NH3	5.85	0.50	mg/L	6.10		96.0	90-110			
LCS Dup (AF50135-BSD1)				Prepared & Analyzed: 06/01/15						
Ammonia as NH3	5.96	0.50	mg/L	6.10		97.7	90-110	1.81	10	
Matrix Spike (AF50135-MS1)				Source: 15E2167-01		Prepared & Analyzed: 06/02/15				
Ammonia as NH3	11.5	0.50	mg/L	12.2	ND	94.2	85-115			
Matrix Spike Dup (AF50135-MSD1)				Source: 15E2167-01		Prepared & Analyzed: 06/02/15				
Ammonia as NH3	11.5	0.50	mg/L	12.2	ND	94.2	85-115	0.00	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 AF50504 - General Prep										
Blank (AF50504-BLK1)				Prepared & Analyzed: 06/05/15						
Phosphorus, total	ND	0.040	mg/L							
LCS (AF50504-BS1)				Prepared & Analyzed: 06/05/15						
Phosphorus, total	0.195	0.040	mg/L	0.200		97.7	85-115			
Duplicate (AF50504-DUP1)				Source: 15E2317-01		Prepared & Analyzed: 06/05/15				
Phosphorus, total	0.0484	0.040	mg/L		0.0497			2.73	20	
Matrix Spike (AF50504-MS1)				Source: 15E2317-01		Prepared & Analyzed: 06/05/15				
Phosphorus, total	0.222	0.040	mg/L	0.200	0.0497	86.2	70-130			
Matrix Spike Dup (AF50504-MSD1)				Source: 15E2317-01		Prepared & Analyzed: 06/05/15				
Phosphorus, total	0.222	0.040	mg/L	0.200	0.0497	86.2	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 AE52150 - General Preparation										
Blank (AE52150-BLK1)				Prepared & Analyzed: 05/22/15						
Nitrate as N	ND	0.20	mg/L							
Nitrite as N	ND	0.20	"							
Chloride	ND	0.50	"							
LCS (AE52150-BS1)				Prepared & Analyzed: 05/22/15						
Nitrate as N	5.41	0.20	mg/L	5.56		97.5	90-110			
Chloride	11.0	0.50	"	11.1		98.6	90-110			
Nitrite as N	5.54	0.20	"	5.56		99.7	90-110			
Duplicate (AE52150-DUP1)				Source: 15E2110-02		Prepared & Analyzed: 05/22/15				
Nitrate as N	13.1	2.0	mg/L		13.0			0.953	20	
Chloride	50.1	5.0	"		49.7			0.882	20	
Nitrite as N	ND	0.20	"		ND				20	
Matrix Spike (AE52150-MS1)				Source: 15E2110-02		Prepared & Analyzed: 05/22/15				
Nitrate as N	18.5	2.0	mg/L	5.56	13.0	99.1	80-120			
Chloride	60.4	5.0	"	11.1	49.7	97.1	80-120			
Nitrite as N	5.24	2.0	"	5.56	ND	94.4	80-120			
Matrix Spike (AE52150-MS2)				Source: 15E2140-03		Prepared & Analyzed: 05/22/15				
Chloride	19.7	2.5	mg/L	11.1	9.09	95.9	80-120			
Nitrate as N	5.20	1.0	"	5.56	ND	92.6	80-120			
Nitrite as N	5.37	1.0	"	5.56	ND	96.6	80-120			
Matrix Spike Dup (AE52150-MSD1)				Source: 15E2110-02		Prepared & Analyzed: 05/22/15				
Chloride	60.4	5.0	mg/L	11.1	49.7	96.6	80-120	0.0920	20	
Nitrate as N	18.4	2.0	"	5.56	13.0	97.4	80-120	0.517	20	
Nitrite as N	5.26	2.0	"	5.56	ND	94.6	80-120	0.212	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: 06/08/15 10:35
Project No: -
Project ID: Reclaimed Study

Order Number

15E2157

Receipt Date/Time

05/21/2015 22:50

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-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
- 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

work Order Chain of Custody Record

Central Valley Laboratory
9090 Union Park Wy., #113, Elk Grove, CA 95624
916-686-5190 F) 916-686-5192

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WATERS, SEDIMENTS, SOLIDS

Lab No. _____ Page _____ of _____

[illegible]

- 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