



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 June 2015

West Bay Sanitary District

Attn: John Simonetti

500 Laurel Street

Menlo Park, CA 94025

RE: Reclaimed Study

Work Order: 15E0822

Enclosed are the results of analyses for samples received by the laboratory on 05/07/15 22:55. 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: 06/05/15 11:07
Project No: -
Project ID: Reclaimed Study

Order Number
15E0822

Receipt Date/Time
05/07/2015 22:55

Client Code
WESTBAY

Client PO/Reference

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Alpine Rd 0562015-A	15E0822-01	Water	05/07/15 00:00	05/07/15 22:55
Sand Hill Rd 0562015-B	15E0822-02	Water	05/07/15 00:00	05/07/15 22:55

*This represents an amended copy of the original report.
TKN results corrected for sample #1.*



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	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
Alpine Rd 0562015-A (15E0822-01)			Sample Type: Water		Sampled: 05/07/15 00:00			
Metals by EPA 200 Series Methods								
Boron	EPA 200.7	AE51520	05/15/15 10:06	05/18/15 16:17	1	0.32 mg/L	0.050	
Calcium	"	"	"	"	"	27 "	1.0	
Magnesium	"	"	"	"	"	7.6 "	1.0	
Sodium	"	"	"	"	"	69 "	1.0	
Conventional Chemistry Parameters by APHA/EPA Methods								
Ammonia as NH3	SM4500NH3C	AE51233	05/12/15 08:07	05/15/15 12:52	1	48 mg/L	0.50	
Biochemical Oxygen Demand	SM5210B	AE50847	05/08/15 16:30	05/13/15 12:00	"	520 "	5.0	
Total Dissolved Solids	SM2540C	AE51234	05/12/15 13:30	05/15/15 08:45	"	390 "	10	
Total Suspended Solids	SM2540D	AE51243	05/12/15 09:55	05/14/15 12:37	"	2100 "	1.0	
Silica	SM4500-SiO2 C	AE50844	05/08/15 15:00	05/08/15 16:15	"	13 "	1.0	
Total Kjeldahl Nitrogen	SM4500-Norg B	AE52108	06/04/15 09:58	06/04/15 10:05	"	90 "	1.0	T-3
Total Nitrogen	SM4500-N	AE51501	05/15/15 05:34	05/27/15 07:22	"	90 "	1.0	
Phosphorus, total	SM4500-P E	AE51926	05/19/15 08:00	05/19/15 10:39	5	13 "	2.0	
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AE50850	05/09/15 07:55	05/09/15 07:55	10	72 mg/L	5.0	
Nitrate as N	"	"	05/09/15 08:11	05/09/15 08:11	1	ND "	0.20	T-3
Nitrite as N	"	"	"	"	"	ND "	0.20	T-3
Sand Hill Rd 0562015-B (15E0822-02)			Sample Type: Water		Sampled: 05/07/15 00:00			
Metals by EPA 200 Series Methods								
Boron	EPA 200.7	AE51520	05/15/15 10:06	05/18/15 16:21	1	0.12 mg/L	0.050	
Calcium	"	"	"	"	"	15 "	1.0	
Magnesium	"	"	"	"	"	5.6 "	1.0	
Sodium	"	"	"	"	"	59 "	1.0	



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	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
Sand Hill Rd 0562015-B (15E0822-02)			Sample Type: Water		Sampled: 05/07/15 00:00			
Conventional Chemistry Parameters by APHA/EPA Methods								
Ammonia as NH3	SM4500NH3C	AE51233	05/12/15 08:07	05/15/15 12:52	1	56 mg/L	0.50	
Biochemical Oxygen Demand	SM5210B	AE50847	05/08/15 16:30	05/13/15 12:00	"	280 "	5.0	
Total Dissolved Solids	SM2540C	AE51234	05/12/15 13:30	05/15/15 08:45	"	330 "	10	
Total Suspended Solids	SM2540D	AE51243	05/12/15 09:55	05/14/15 12:37	"	160 "	1.0	
Silica	SM4500-SiO2 C	AE50844	05/08/15 15:00	05/08/15 16:15	"	13 "	1.0	
Total Kjeldahl Nitrogen	SM4500-Norg B	AE52108	05/22/15 06:58	05/22/15 16:05	"	79 "	1.0	
Total Nitrogen	SM4500-N	AE51501	05/15/15 05:34	05/27/15 07:22	"	79 "	1.0	
Phosphorus, total	SM4500-P E	AE51926	05/19/15 08:00	05/19/15 10:39	5	8.6 "	2.0	
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AE50850	05/09/15 08:28	05/09/15 08:28	10	57 mg/L	5.0	
Nitrate as N	"	"	05/09/15 08:44	05/09/15 08:44	1	ND "	0.20	T-3
Nitrite as N	"	"	"	"	"	ND "	0.20	T-3



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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 AE51520 - Metals Digest										
Blank (AE51520-BLK1)				Prepared: 05/15/15 Analyzed: 05/18/15						
Boron	ND	0.050	mg/L							
Calcium	ND	1.0	"							
Magnesium	ND	1.0	"							
Sodium	ND	1.0	"							
LCS (AE51520-BS1)				Prepared: 05/15/15 Analyzed: 05/18/15						
Boron	0.450	0.050	mg/L	0.400		112	85-115			
Calcium	7.89	1.0	"	8.00		98.6	85-115			
Magnesium	7.80	1.0	"	8.00		97.5	85-115			
Sodium	7.95	1.0	"	8.00		99.4	85-115			
Duplicate (AE51520-DUP1)				Source: 15E0713-01		Prepared: 05/15/15 Analyzed: 05/18/15				
Boron	1.69	0.050	mg/L		1.73			2.33	20	
Calcium	32.1	1.0	"		32.1			0.192	20	
Magnesium	20.7	1.0	"		20.7			0.0354	20	
Sodium	123	1.0	"		122			0.166	20	
Matrix Spike (AE51520-MS1)				Source: 15E0713-01		Prepared: 05/15/15 Analyzed: 05/18/15				
Boron	2.12	0.050	mg/L	0.400	1.73	98.1	70-130			
Calcium	41.1	1.0	"	8.00	32.1	113	70-130			
Magnesium	28.5	1.0	"	8.00	20.7	96.9	70-130			
Sodium	134	1.0	"	8.00	122	148	70-130			QM-4X
Matrix Spike (AE51520-MS2)				Source: 15E0700-01		Prepared: 05/15/15 Analyzed: 05/18/15				
Boron	1.79	0.050	mg/L	0.400	1.15	162	70-130			QM-01
Calcium	66.1	1.0	"	8.00	49.6	205	70-130			QM-4X
Magnesium	31.9	1.0	"	8.00	20.2	146	70-130			QM-01
Sodium	197	1.0	"	8.00	164	415	70-130			QM-4X



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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 AE51520 - Metals Digest										
Matrix Spike Dup (AE51520-MSD1)		Source: 15E0713-01		Prepared: 05/15/15 Analyzed: 05/18/15						
Boron	2.28	0.050	mg/L	0.400	1.73	137	70-130	7.16	20	QM-4X
Calcium	42.4	1.0	"	8.00	32.1	128	70-130	2.98	20	
Magnesium	29.8	1.0	"	8.00	20.7	114	70-130	4.60	20	
Sodium	137	1.0	"	8.00	122	182	70-130	2.01	20	QM-4X



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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 AE50844 - General Preparation										
Blank (AE50844-BLK1)				Prepared & Analyzed: 05/08/15						
Silica	ND	1.0	mg/L							
LCS (AE50844-BS1)				Prepared & Analyzed: 05/08/15						
Silica	10.6	1.0	mg/L	10.0		106	80-120			
LCS Dup (AE50844-BSD1)				Prepared & Analyzed: 05/08/15						
Silica	10.5	1.0	mg/L	10.0		105	80-120	1.49	15	
Duplicate (AE50844-DUP1)				Source: 15E0789-02		Prepared & Analyzed: 05/08/15				
Silica	9.69	1.0	mg/L		9.10			6.29	20	
Matrix Spike (AE50844-MS1)				Source: 15E0789-02		Prepared & Analyzed: 05/08/15				
Silica	13.7	1.0	mg/L	5.00	9.10	92.1	85-115			
Matrix Spike Dup (AE50844-MSD1)				Source: 15E0789-02		Prepared & Analyzed: 05/08/15				
Silica	13.5	1.0	mg/L	5.00	9.10	88.9	85-115	1.16	15	
Batch AE50847 - General Preparation										
Blank (AE50847-BLK1)				Prepared: 05/08/15 Analyzed: 05/13/15						
Biochemical Oxygen Demand	ND	5.0	mg/L							
Blank (AE50847-BLK2)				Prepared: 05/08/15 Analyzed: 05/13/15						
Biochemical Oxygen Demand	ND	5.0	mg/L							
LCS (AE50847-BS1)				Prepared: 05/06/15 Analyzed: 05/11/15						
Biochemical Oxygen Demand	203	5.0	mg/L	200		102	84-115			



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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 AE50847 - General Preparation										
Duplicate (AE50847-DUP1)				Source: 15E0869-01		Prepared: 05/08/15 Analyzed: 05/13/15				
Biochemical Oxygen Demand	263	5.0	mg/L		245			7.09	30	
Batch AE51233 - General Preparation										
Blank (AE51233-BLK1)				Prepared: 05/12/15 Analyzed: 05/15/15						
Ammonia as NH3	ND	0.50	mg/L							
Blank (AE51233-BLK2)				Prepared: 05/12/15 Analyzed: 05/15/15						
Ammonia as NH3	ND	0.50	mg/L							
LCS (AE51233-BS1)				Prepared: 05/12/15 Analyzed: 05/15/15						
Ammonia as NH3	5.96	0.50	mg/L	6.10		97.7	90-110			
LCS Dup (AE51233-BSD1)				Prepared: 05/12/15 Analyzed: 05/15/15						
Ammonia as NH3	6.07	0.50	mg/L	6.10		99.5	90-110	1.76	10	
Matrix Spike (AE51233-MS1)				Prepared: 05/12/15 Analyzed: 05/15/15						
Ammonia as NH3	6.07	0.50	mg/L	6.10	ND	99.5	85-115			
Matrix Spike Dup (AE51233-MSD1)				Prepared: 05/12/15 Analyzed: 05/15/15						
Ammonia as NH3	6.07	0.50	mg/L	6.10	ND	99.5	85-115	0.00	20	
Batch AE51234 - General Preparation										
Blank (AE51234-BLK1)				Prepared: 05/12/15 Analyzed: 05/15/15						
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 AE51234 - General Preparation										
Duplicate (AE51234-DUP1)				Source: 15E0789-01		Prepared: 05/12/15 Analyzed: 05/15/15				
Total Dissolved Solids	852	10	mg/L		876			2.78	15	
Duplicate (AE51234-DUP2)				Source: 15E0789-02		Prepared: 05/12/15 Analyzed: 05/15/15				
Total Dissolved Solids	768	10	mg/L		716			7.01	15	
Batch AE51243 - General Preparation										
Blank (AE51243-BLK1)				Prepared: 05/12/15 Analyzed: 05/14/15						
Total Suspended Solids	ND	1.0	mg/L							
Duplicate (AE51243-DUP1)				Source: 15E0822-02		Prepared: 05/12/15 Analyzed: 05/14/15				
Total Suspended Solids	172	1.0	mg/L		164			4.76	30	
Duplicate (AE51243-DUP2)				Source: 15E0913-02		Prepared: 05/12/15 Analyzed: 05/14/15				
Total Suspended Solids	260	1.0	mg/L		262			0.766	30	
Batch AE51926 - General Prep										
Blank (AE51926-BLK1)				Prepared & Analyzed: 05/19/15						
Phosphorus, total	ND	0.040	mg/L							
LCS (AE51926-BS1)				Prepared & Analyzed: 05/19/15						
Phosphorus, total	0.199	0.040	mg/L	0.200		99.7	85-115			
Duplicate (AE51926-DUP1)				Source: 15E0822-01		Prepared & Analyzed: 05/19/15				
Phosphorus, total	12.8	2.0	mg/L		12.8			0.00	20	



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Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AE51926 - General Prep										
Matrix Spike (AE51926-MS1)		Source: 15E0822-01		Prepared & Analyzed: 05/19/15						
Phosphorus, total	16.0	2.0	mg/L	2.00	12.8	157	70-130			QM-4X
Matrix Spike Dup (AE51926-MSD1)		Source: 15E0822-01		Prepared & Analyzed: 05/19/15						
Phosphorus, total	15.9	2.0	mg/L	2.00	12.8	153	70-130	0.417	20	QM-4X
Batch AE52108 - General Prep										
LCS (AE52108-BS1)		Prepared: 05/21/15 Analyzed: 05/22/15								
Total Kjeldahl Nitrogen	3.13	1.0	mg/L	2.98		105	80-120			
LCS Dup (AE52108-BSD1)		Prepared: 05/21/15 Analyzed: 05/22/15								
Total Kjeldahl Nitrogen	3.13	1.0	mg/L	2.98		105	80-120	0.00	20	
Matrix Spike (AE52108-MS1)		Source: 15E0856-01		Prepared & Analyzed: 05/22/15						
Total Kjeldahl Nitrogen	4.52	1.0	mg/L	2.98	2.10	81.0	75-125			
Matrix Spike Dup (AE52108-MSD1)		Source: 15E0856-01		Prepared & Analyzed: 05/22/15						
Total Kjeldahl Nitrogen	4.52	1.0	mg/L	2.98	2.10	81.0	75-125	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 AE50850 - General Preparation										
Blank (AE50850-BLK1)				Prepared & Analyzed: 05/09/15						
Chloride	ND	0.50	mg/L							
Nitrate as N	ND	0.20	"							
Nitrite as N	ND	0.20	"							
LCS (AE50850-BS1)				Prepared & Analyzed: 05/09/15						
Chloride	11.1	0.50	mg/L	11.1		100	90-110			
Nitrate as N	5.52	0.20	"	5.56		99.3	90-110			
Nitrite as N	5.50	0.20	"	5.56		99.0	90-110			
Duplicate (AE50850-DUP1)				Source: 15E0760-01		Prepared & Analyzed: 05/09/15				
Chloride	6.56	0.50	mg/L		6.43			1.94	20	
Nitrite as N	ND	0.20	"		ND				20	
Nitrate as N	ND	0.20	"		ND				20	
Matrix Spike (AE50850-MS1)				Source: 15E0760-01		Prepared & Analyzed: 05/11/15				
Chloride	17.8	0.50	mg/L	11.1	6.43	102	80-120			
Nitrate as N	5.58	0.20	"	5.56	ND	99.5	80-120			
Nitrite as N	5.54	0.20	"	5.56	ND	98.9	80-120			
Matrix Spike (AE50850-MS2)				Source: 15E0855-01		Prepared & Analyzed: 05/09/15				
Chloride	14.9	2.5	mg/L	11.1	3.12	106	80-120			
Nitrate as N	5.77	1.0	"	5.56	ND	102	80-120			
Nitrite as N	5.67	1.0	"	5.56	ND	102	80-120			
Matrix Spike Dup (AE50850-MSD1)				Source: 15E0760-01		Prepared & Analyzed: 05/11/15				
Nitrate as N	5.56	0.20	mg/L	5.56	ND	99.3	80-120	0.243	20	
Nitrite as N	5.53	0.20	"	5.56	ND	98.7	80-120	0.181	20	
Chloride	17.7	0.50	"	11.1	6.43	102	80-120	0.332	20	



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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: 06/05/15 11:07
Project No: -
Project ID: Reclaimed Study

Order Number

15E0822

Receipt Date/Time

05/07/2015 22:55

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-3 Client did not specify sampling time.
- 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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Lab No. 15E0825 Page of

Temp ↓

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WATERS, SEDIMENTS, SOLIDS

[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