



Alpha Analytical Laboratories Inc.

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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

ELAP Certificates 1551, 2728, and 2922

15 April 2016

West Bay Sanitary District

Attn: John Simonetti

500 Laurel Street

Menlo Park, CA 94025

RE: WQ Monitoring

Work Order: 16D0036

Enclosed are the results of analyses for samples received by the laboratory on 03/31/16 21:15. 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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West Bay Sanitary District
500 Laurel Street
Menlo Park, CA 94025

Project Manager: John Simonetti
Project: WQ Monitoring
Project Number: Oak Avenue

Reported:
04/15/16 14:32

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Oak Avenue	16D0036-01	Water	03/29/16 09:00	03/31/16 21:15



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	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
Oak Avenue (16D0036-01)								
Sample Type: Water			Sampled: 03/29/16 09:00					
Metals by EPA 200 Series Methods								
Boron	0.17 mg/L	0.050	1	AD63172	04/12/16 15:39	04/14/16 13:20	EPA 200.7	
Calcium	36 mg/L	1.0	1	AD63172	04/12/16 15:39	04/14/16 13:20	EPA 200.7	
Magnesium	25 mg/L	1.0	1	AD63172	04/12/16 15:39	04/14/16 13:20	EPA 200.7	
Sodium	56 mg/L	1.0	1	AD63172	04/12/16 15:39	04/14/16 13:20	EPA 200.7	
Conventional Chemistry Parameters by APHA/EPA Methods								
Ammonia as NH3	56 mg/L	0.50	1	AD62852	04/04/16 08:09	04/04/16 15:00	SM4500NH3C	
Bicarbonate	380 mg/L	5.0	1	AD62878	04/06/16 08:00	04/06/16 09:40	SM2320B	
Biochemical Oxygen Demand	150 mg/L	5.0	1	AD62981	04/01/16 15:30	04/06/16 14:00	SM5210B	T-1, T-16
pH	7.68 pH Units	1.68	1	AD62831	03/31/16 19:00	03/31/16 19:00	SM4500-H+ B	T-14
Specific Conductance (EC)	1100 umhos/cm	20	1	AD62861	04/01/16 17:00	04/01/16 17:00	SM2510B	
Total Dissolved Solids	560 mg/L	10	1	AD62849	04/04/16 12:15	04/05/16 16:00	SM2540C	
Total Suspended Solids	120 mg/L	1.0	1	AD62912	04/05/16 10:00	04/05/16 15:15	SM2540D	
Silica	22 mg/L	1.0	1	AD62850	04/04/16 14:30	04/04/16 16:15	SM4500-SiO2 C	
Bicarbonate Alkalinity as CaCO3	310 mg/L	5.0	1	AD62878	04/06/16 08:00	04/06/16 09:40	SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AD62878	04/06/16 08:00	04/06/16 09:40	SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AD62878	04/06/16 08:00	04/06/16 09:40	SM2320B	
Total Alkalinity as CaCO3	310 mg/L	5.0	1	AD62878	04/06/16 08:00	04/06/16 09:40	SM2320B	
Total Kjeldahl Nitrogen	51 mg/L	1.0	1	AC64242	04/05/16 06:15	04/05/16 10:30	SM4500-Norg B	
Total Nitrogen	51 mg/L	1.0	1	AD62999	04/07/16 08:43	04/07/16 09:13	SM4500-N	
Phosphorus, total	6.7 mg/L	0.80	2	AD63089	04/11/16 08:00	04/11/16 12:48	SM4500-P E	
Miscellaneous Physical/Conventional Chemistry Parameters								
Sodium Adsorption Ratio-Adj RNA	2.02 NA		1	AD63172	04/12/16 15:39	04/15/16 05:57	SAR	



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Project: WQ Monitoring
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	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
Oak Avenue (16D0036-01)		Sample Type: Water			Sampled: 03/29/16 09:00			
Anions by EPA Method 300.0								
Chloride	63 mg/L	12	25	AD62828	04/01/16 11:58	04/01/16 11:58	EPA 300.0	
Nitrate as N	ND mg/L	0.20	1	AD62828	04/01/16 17:10	04/01/16 17:10	EPA 300.0	T-5
Nitrate as NO3	ND mg/L	1.0	1	AD62828	04/01/16 17:10	04/01/16 17:10	EPA 300.0	T-5
Nitrite as N	ND mg/L	0.20	1	AD62828	04/01/16 17:10	04/01/16 17:10	EPA 300.0	T-5
Nitrite as NO2	ND mg/L	1.0	1	AD62828	04/01/16 17:10	04/01/16 17:10	EPA 300.0	T-5



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Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AD63172 - Metals Digest										
Blank (AD63172-BLK1)				Prepared: 04/12/16 Analyzed: 04/14/16						
Boron	ND	0.050	mg/L							
Calcium	ND	1.0	mg/L							
Magnesium	ND	1.0	mg/L							
Sodium	ND	1.0	mg/L							
LCS (AD63172-BS1)				Prepared: 04/12/16 Analyzed: 04/14/16						
Boron	0.379	0.050	mg/L	0.400		94.7	85-115			
Calcium	7.78	1.0	mg/L	8.00		97.3	85-115			
Magnesium	8.08	1.0	mg/L	8.00		101	85-115			
Sodium	9.00	1.0	mg/L	8.00		113	85-115			
Duplicate (AD63172-DUP1)				Source: 16D0504-01 Prepared: 04/12/16 Analyzed: 04/14/16						
Boron	ND	0.050	mg/L		ND				20	
Calcium	5.01	1.0	mg/L		5.13			2.49	20	
Magnesium	1.63	1.0	mg/L		1.71			4.33	20	
Sodium	26.8	1.0	mg/L		27.1			1.20	20	
Matrix Spike (AD63172-MS1)				Source: 16D0504-01 Prepared: 04/12/16 Analyzed: 04/14/16						
Boron	0.381	0.050	mg/L	0.400	ND	95.1	70-130			
Calcium	12.6	1.0	mg/L	8.00	5.13	93.9	70-130			
Magnesium	9.69	1.0	mg/L	8.00	1.71	99.8	70-130			
Sodium	34.7	1.0	mg/L	8.00	27.1	94.1	70-130			
Matrix Spike (AD63172-MS2)				Source: 16D0726-01 Prepared: 04/12/16 Analyzed: 04/14/16						
Boron	0.527	0.050	mg/L	0.400	0.151	93.8	70-130			
Calcium	58.9	1.0	mg/L	8.00	51.4	93.0	70-130			
Magnesium	23.7	1.0	mg/L	8.00	15.1	107	70-130			
Sodium	180	1.0	mg/L	8.00	172	93.3	70-130			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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Project Manager: John Simonetti
Project: WQ Monitoring
Project Number: Oak Avenue

Reported:
04/15/16 14:32

Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AD63172 - Metals Digest										
Matrix Spike Dup (AD63172-MSD1)		Source: 16D0504-01			Prepared: 04/12/16 Analyzed: 04/14/16					
Boron	0.384	0.050	mg/L	0.400	ND	96.1	70-130	0.964	20	
Calcium	12.9	1.0	mg/L	8.00	5.13	96.8	70-130	1.81	20	
Magnesium	9.89	1.0	mg/L	8.00	1.71	102	70-130	2.05	20	
Sodium	34.8	1.0	mg/L	8.00	27.1	95.4	70-130	0.297	20	



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Project Number: Oak Avenue

Reported:
04/15/16 14:32

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AC64242 - General Prep										
LCS (AC64242-BS1)				Prepared & Analyzed: 03/31/16						
Total Kjeldahl Nitrogen	3.04	1.0	mg/L	2.98		102	80-120			
LCS Dup (AC64242-BSD1)				Prepared & Analyzed: 03/31/16						
Total Kjeldahl Nitrogen	3.04	1.0	mg/L	2.98		102	80-120	0.00	20	
Matrix Spike (AC64242-MS1)				Source: 16C2768-01		Prepared: 03/31/16 Analyzed: 04/01/16				
Total Kjeldahl Nitrogen	55.3	1.0	mg/L	22.6	39.2	71.2	75-125			QM-4X
Matrix Spike Dup (AC64242-MSD1)				Source: 16C2768-01		Prepared: 03/31/16 Analyzed: 04/01/16				
Total Kjeldahl Nitrogen	55.3	1.0	mg/L	22.6	39.2	71.2	75-125	0.00	20	QM-4X
Batch AD62831 - General Preparation										
Duplicate (AD62831-DUP1)				Source: 16D0029-01		Prepared & Analyzed: 03/31/16				
pH	8.03	1.68	pH Units		7.99			0.499	20	
Batch AD62849 - General Preparation										
Blank (AD62849-BLK1)				Prepared: 04/04/16 Analyzed: 04/05/16						
Total Dissolved Solids	ND	10	mg/L							
Duplicate (AD62849-DUP1)				Source: 16D0061-03		Prepared: 04/04/16 Analyzed: 04/05/16				
Total Dissolved Solids	644	10	mg/L		660			2.45	15	
Batch AD62850 - General Preparation										
Blank (AD62850-BLK1)				Prepared & Analyzed: 04/04/16						
Silica	ND	1.0	mg/L							



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Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AD62850 - General Preparation										
LCS (AD62850-BS1)				Prepared & Analyzed: 04/04/16						
Silica	9.96	1.0	mg/L	10.0		99.6	85-115			
LCS Dup (AD62850-BSD1)				Prepared & Analyzed: 04/04/16						
Silica	9.96	1.0	mg/L	10.0		99.6	85-115	0.00	20	
Duplicate (AD62850-DUP1)				Source: 16D0024-03		Prepared & Analyzed: 04/04/16				
Silica	ND	1.0	mg/L		ND				20	
Matrix Spike (AD62850-MS1)				Source: 16D0024-03		Prepared & Analyzed: 04/04/16				
Silica	4.61	1.0	mg/L	5.00	ND	92.2	80-120			
Matrix Spike Dup (AD62850-MSD1)				Source: 16D0024-03		Prepared & Analyzed: 04/04/16				
Silica	4.57	1.0	mg/L	5.00	ND	91.5	80-120	0.793	20	
Batch AD62852 - General Preparation										
Blank (AD62852-BLK1)				Prepared & Analyzed: 04/04/16						
Ammonia as NH3	ND	0.50	mg/L							
LCS (AD62852-BS1)				Prepared & Analyzed: 04/04/16						
Ammonia as NH3	5.75	0.50	mg/L	6.10		94.2	90-110			
LCS Dup (AD62852-BSD1)				Prepared & Analyzed: 04/04/16						
Ammonia as NH3	5.96	0.50	mg/L	6.10		97.7	90-110	3.64	10	
Batch AD62861 - General Preparation										
Duplicate (AD62861-DUP1)				Source: 16D0061-04		Prepared & Analyzed: 04/01/16				
Specific Conductance (EC)	583	20	umhos/cm		581			0.344	5	



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Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AD62878 - General Preparation										
Duplicate (AD62878-DUP1)	Source: 16C2962-02			Prepared & Analyzed: 04/05/16						
Bicarbonate	14.6	5.0	mg/L		14.6			0.00	20	
Total Alkalinity as CaCO ₃	12.0	5.0	mg/L		12.0			0.00	20	
Hydroxide Alkalinity as CaCO ₃	ND	5.0	mg/L		ND				20	
Bicarbonate Alkalinity as CaCO ₃	12.0	5.0	mg/L		12.0			0.00	20	
Carbonate Alkalinity as CaCO ₃	ND	5.0	mg/L		ND				20	
Batch AD62912 - General Preparation										
Blank (AD62912-BLK1)	Prepared & Analyzed: 04/05/16									
Total Suspended Solids	ND	1.0	mg/L							
Duplicate (AD62912-DUP1)	Source: 16D0036-01			Prepared & Analyzed: 04/05/16						
Total Suspended Solids	113	1.0	mg/L		116			2.49	30	
Duplicate (AD62912-DUP2)	Source: 16D0063-01			Prepared & Analyzed: 04/05/16						
Total Suspended Solids	166	1.0	mg/L		171			3.39	30	
Batch AD62981 - General Preparation										
Blank (AD62981-BLK1)	Prepared: 04/01/16 Analyzed: 04/06/16									
Biochemical Oxygen Demand	ND	5.0	mg/L							
Blank (AD62981-BLK2)	Prepared: 04/01/16 Analyzed: 04/06/16									
Biochemical Oxygen Demand	ND	5.0	mg/L							
LCS (AD62981-BS1)	Prepared: 03/30/16 Analyzed: 04/04/16									
Biochemical Oxygen Demand	216	5.0	mg/L	200		108	84-115			



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Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AD62981 - General Preparation										
Duplicate (AD62981-DUP1)		Source: 16D0011-01		Prepared: 04/01/16 Analyzed: 04/06/16						
Biochemical Oxygen Demand	ND	5.0	mg/L		5.89			18.4	30	
Batch AD63089 - General Prep										
Blank (AD63089-BLK1)		Prepared & Analyzed: 04/11/16								
Phosphorus, total	ND	0.040	mg/L							
LCS (AD63089-BS1)		Prepared & Analyzed: 04/11/16								
Phosphorus, total	0.200	0.040	mg/L	0.200		99.8	85-115			
Duplicate (AD63089-DUP1)		Source: 16D0370-02		Prepared & Analyzed: 04/11/16						
Phosphorus, total	3.21	0.80	mg/L		3.24			0.831	20	
Matrix Spike (AD63089-MS1)		Source: 16D0370-02		Prepared & Analyzed: 04/11/16						
Phosphorus, total	4.96	0.80	mg/L	2.00	3.24	86.1	70-130			
Matrix Spike (AD63089-MS2)		Source: 16D0372-02		Prepared & Analyzed: 04/11/16						
Phosphorus, total	5.04	0.80	mg/L	2.00	3.51	76.7	70-130			
Matrix Spike Dup (AD63089-MSD1)		Source: 16D0370-02		Prepared & Analyzed: 04/11/16						
Phosphorus, total	4.99	0.80	mg/L	2.00	3.24	87.4	70-130	0.543	20	



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Anions by EPA Method 300.0 - Quality Control

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AD62828 - General Preparation										
Blank (AD62828-BLK1)				Prepared & Analyzed: 04/01/16						
Nitrite as N	ND	0.20	mg/L							
Nitrite as NO2	ND	1.0	mg/L							
Nitrate as NO3	ND	1.0	mg/L							
Chloride	ND	0.50	mg/L							
Nitrate as N	ND	0.20	mg/L							
LCS (AD62828-BS1)				Prepared & Analyzed: 04/01/16						
Nitrate as NO3	26	1.0	mg/L	24.7		104	90-110			
Nitrate as N	5.78	0.20	mg/L	5.56		104	90-110			
Chloride	11.7	0.50	mg/L	11.1		105	90-110			
Nitrite as N	5.58	0.20	mg/L	5.56		100	90-110			
Nitrite as NO2	18.3	1.0	mg/L	18.2		101	90-110			
Duplicate (AD62828-DUP1)				Source: 16D0006-02		Prepared & Analyzed: 04/01/16				
Chloride	40.3	2.5	mg/L		40.5			0.507	20	
Nitrite as N	ND	0.20	mg/L		ND				20	
Nitrate as NO3	5.4	1.0	mg/L		5.5			0.257	20	
Nitrite as NO2	ND	1.0	mg/L		ND				20	
Nitrate as N	1.23	0.20	mg/L		1.23			0.257	20	
Matrix Spike (AD62828-MS1)				Source: 16D0006-02		Prepared & Analyzed: 04/01/16				
Nitrite as N	5.17	1.0	mg/L	5.56	ND	93.0	80-120			
Nitrite as NO2	17.0	5.0	mg/L	18.2	ND	93.3	80-120			
Chloride	51.2	2.5	mg/L	11.1	40.5	95.8	80-120			
Nitrate as N	6.50	1.0	mg/L	5.56	1.23	94.8	80-120			
Nitrate as NO3	29	5.0	mg/L	24.7	5.5	94.6	80-120			
Matrix Spike Dup (AD62828-MSD1)				Source: 16D0006-02		Prepared & Analyzed: 04/01/16				
Nitrite as NO2	16.8	5.0	mg/L	18.2	ND	92.4	80-120	0.972	20	
Nitrate as NO3	29	5.0	mg/L	24.7	5.5	94.7	80-120	0.0772	20	
Nitrate as N	6.50	1.0	mg/L	5.56	1.23	94.9	80-120	0.0772	20	
Nitrite as N	5.12	1.0	mg/L	5.56	ND	92.1	80-120	0.972	20	
Chloride	51.4	2.5	mg/L	11.1	40.5	98.3	80-120	0.552	20	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Alpha Analytical Laboratories Inc.

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West Bay Sanitary District
500 Laurel Street
Menlo Park, CA 94025

Project Manager: John Simonetti
Project: WQ Monitoring
Project Number: Oak Avenue

Reported:
04/15/16 14:32

Notes and Definitions

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-1	This sample was received outside recommended holding time.
T-14	Residual chlorine, dissolved oxygen, and pH must be analyzed in the field to meet the EPA specified 15 minute hold time.
T-16	Sample prepared outside of recommended hold time. Client notified.
T-5	Sample prepared outside of recommended holding time per client.
ND	Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
REC	Recovery
RPD	Relative Percent Difference

[illegible]

Sean Foley

From: Robbie Phillips <robbie@alpha-labs.com>
Sent: Tuesday, April 05, 2016 5:46 PM
To: Sean Foley
Subject: Re: West Bay Sanitary

Absolutely

Robbie C. Phillips
650-464-3237

On Apr 5, 2016, at 16:21, Sean Foley <sfoley@alpha-labs.com> wrote:

We received four sets of samples that were taken 4/1 – 4/4, Ok to run out of hold?

Sean Foley
Alpha Analytical Laboratories, Inc
Sample Control
208 Mason St
Ukiah, CA 95482
707-468-0401 x200

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