



Alpha

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

19 April 2016

West Bay Sanitary District

Attn: John Simonetti

500 Laurel Street

Menlo Park, CA 94025

RE: WQ Monitoring

Work Order: 16D0206

Enclosed are the results of analyses for samples received by the laboratory on 04/04/16 21:20. 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:
04/19/16 11:56

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Oak Avenue	16D0206-01	Water	04/04/16 09:00	04/04/16 21:20



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04/19/16 11:56

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
Oak Avenue (16D0206-01)								
Sample Type: Water			Sampled: 04/04/16 09:00					
Metals by EPA 200 Series Methods								
Boron	0.32 mg/L	0.050	1	AD63175	04/12/16 16:00	04/14/16 16:20	EPA 200.7	
Calcium	40 mg/L	1.0	1	AD63175	04/12/16 16:00	04/14/16 16:20	EPA 200.7	
Magnesium	21 mg/L	1.0	1	AD63175	04/12/16 16:00	04/14/16 16:20	EPA 200.7	
Sodium	68 mg/L	1.0	1	AD63175	04/12/16 16:00	04/14/16 16:20	EPA 200.7	
Conventional Chemistry Parameters by APHA/EPA Methods								
Ammonia as NH3	58 mg/L	0.50	1	AD62949	04/06/16 08:00	04/06/16 17:00	SM4500NH3C	
Bicarbonate	370 mg/L	5.0	1	AD62961	04/06/16 09:35	04/06/16 17:00	SM2320B	
Biochemical Oxygen Demand	290 mg/L	5.0	1	AD63127	04/06/16 07:00	04/11/16 13:00	SM5210B	
pH	7.60 pH Units	1.68	1	AD62924	04/04/16 18:40	04/04/16 18:40	SM4500-H+ B	T-14
Specific Conductance (EC)	990 umhos/cm	20	1	AD62910	04/05/16 17:00	04/05/16 17:00	SM2510B	
Total Dissolved Solids	440 mg/L	10	1	AD62954	04/06/16 09:00	04/12/16 08:45	SM2540C	
Total Suspended Solids	500 mg/L	1.0	1	AD62969	04/06/16 11:13	04/08/16 11:00	SM2540D	
Silica	19 mg/L	2.0	2	AD62927	04/05/16 14:15	04/05/16 16:30	SM4500-SiO2 C	
Bicarbonate Alkalinity as CaCO3	300 mg/L	5.0	1	AD62961	04/06/16 09:35	04/06/16 17:00	SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AD62961	04/06/16 09:35	04/06/16 17:00	SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AD62961	04/06/16 09:35	04/06/16 17:00	SM2320B	
Total Alkalinity as CaCO3	300 mg/L	5.0	1	AD62961	04/06/16 09:35	04/06/16 17:00	SM2320B	
Total Kjeldahl Nitrogen	58 mg/L	1.0	1	AD62911	04/07/16 09:41	04/07/16 12:29	SM4500-Norg B	
Total Nitrogen	58 mg/L	1.0	1	AD62999	04/07/16 08:43	04/12/16 09:47	SM4500-N	
Phosphorus, total	7.2 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	2.54 NA		1	AD63175	04/12/16 16:00	04/19/16 07:23	SAR	



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Project: WQ Monitoring
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	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
Oak Avenue (16D0206-01)		Sample Type: Water			Sampled: 04/04/16 09:00			
Anions by EPA Method 300.0								
Chloride	64 mg/L	10	20	AD62920	04/05/16 18:22	04/05/16 18:22	EPA 300.0	
Nitrate as N	ND mg/L	0.20	1	AD62920	04/05/16 19:11	04/05/16 19:11	EPA 300.0	
Nitrate as NO3	ND mg/L	1.0	1	AD62920	04/05/16 19:11	04/05/16 19:11	EPA 300.0	
Nitrite as N	ND mg/L	0.20	1	AD62920	04/05/16 19:11	04/05/16 19:11	EPA 300.0	
Nitrite as NO2	ND mg/L	1.0	1	AD62920	04/05/16 19:11	04/05/16 19:11	EPA 300.0	



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Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Flag
Batch AD63175 - Metals Digest									
Blank (AD63175-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 (AD63175-BS1)				Prepared: 04/12/16 Analyzed: 04/14/16					
Boron	0.386	0.050	mg/L	0.400		96.6	85-115		
Calcium	7.87	1.0	mg/L	8.00		98.4	85-115		
Magnesium	8.39	1.0	mg/L	8.00		105	85-115		
Sodium	8.35	1.0	mg/L	8.00		104	85-115		
Duplicate (AD63175-DUP1)				Source: 16D0166-01		Prepared: 04/12/16 Analyzed: 04/14/16			
Boron	0.0889	0.050	mg/L		0.0865		2.72	20	
Calcium	11.9	1.0	mg/L		11.7		1.16	20	
Magnesium	27.2	1.0	mg/L		27.6		1.55	20	
Sodium	6.84	1.0	mg/L		6.72		1.84	20	
Matrix Spike (AD63175-MS1)				Source: 16D0166-01		Prepared: 04/12/16 Analyzed: 04/14/16			
Boron	0.432	0.050	mg/L	0.400	0.0865	86.3	70-130		
Calcium	18.2	1.0	mg/L	8.00	11.7	80.9	70-130		
Magnesium	32.2	1.0	mg/L	8.00	27.6	58.2	70-130		QM-01
Sodium	13.9	1.0	mg/L	8.00	6.72	90.0	70-130		
Matrix Spike (AD63175-MS2)				Source: 16D0198-01		Prepared: 04/12/16 Analyzed: 04/14/16			
Boron	0.577	0.050	mg/L	0.400	0.197	94.8	70-130		
Calcium	88.7	1.0	mg/L	8.00	78.3	130	70-130		
Magnesium	79.4	1.0	mg/L	8.00	67.9	144	70-130		QM-4X
Sodium	51.9	1.0	mg/L	8.00	42.6	116	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: WQ Monitoring
Project Number: Oak Avenue

Reported:
04/19/16 11:56

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
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Batch AD63175 - Metals Digest

Matrix Spike Dup (AD63175-MSD1)

Source: 16D0166-01

Prepared: 04/12/16 Analyzed: 04/14/16

Boron	0.462	0.050	mg/L	0.400	0.0865	93.9	70-130	6.86	20	
Calcium	19.0	1.0	mg/L	8.00	11.7	90.3	70-130	4.03	20	
Magnesium	33.7	1.0	mg/L	8.00	27.6	76.2	70-130	4.37	20	
Sodium	14.6	1.0	mg/L	8.00	6.72	98.3	70-130	4.65	20	



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Reported:
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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 AD62910 - General Preparation										
Duplicate (AD62910-DUP1)	Source: 16D0236-03			Prepared & Analyzed: 04/05/16						
Specific Conductance (EC)	165	20	umhos/cm		165			0.00	5	
Batch AD62911 - General Prep										
LCS (AD62911-BS1)				Prepared: 04/05/16 Analyzed: 04/06/16						
Total Kjeldahl Nitrogen	2.95	1.0	mg/L	2.98		99.0	80-120			
LCS Dup (AD62911-BSD1)				Prepared: 04/05/16 Analyzed: 04/06/16						
Total Kjeldahl Nitrogen	2.95	1.0	mg/L	2.98		99.0	80-120	0.00	20	
Matrix Spike (AD62911-MS1)	Source: 16D0191-01			Prepared: 04/05/16 Analyzed: 04/06/16						
Total Kjeldahl Nitrogen	43.4	1.0	mg/L	22.6	24.5	83.5	75-125			
Matrix Spike Dup (AD62911-MSD1)	Source: 16D0191-01			Prepared: 04/05/16 Analyzed: 04/06/16						
Total Kjeldahl Nitrogen	43.4	1.0	mg/L	22.6	24.5	83.5	75-125	0.00	20	
Batch AD62924 - General Preparation										
Duplicate (AD62924-DUP1)	Source: 16D0229-01			Prepared & Analyzed: 04/04/16						
pH	9.00	1.68	pH Units		8.91			1.01	20	
Duplicate (AD62924-DUP2)	Source: 16D0224-01			Prepared & Analyzed: 04/04/16						
pH	8.33	1.68	pH Units		8.39			0.718	20	
Batch AD62927 - General Preparation										
Blank (AD62927-BLK1)				Prepared & Analyzed: 04/05/16						
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 AD62927 - General Preparation										
LCS (AD62927-BS1)				Prepared & Analyzed: 04/05/16						
Silica	10.0	1.0	mg/L	10.0		100	85-115			
LCS Dup (AD62927-BSD1)				Prepared & Analyzed: 04/05/16						
Silica	10.6	1.0	mg/L	10.0		106	85-115	5.65	20	
Duplicate (AD62927-DUP1)				Source: 16D0230-01		Prepared & Analyzed: 04/05/16				
Silica	18.7	1.0	mg/L		18.4			1.57	20	
Matrix Spike (AD62927-MS1)				Source: 16D0230-01		Prepared & Analyzed: 04/05/16				
Silica	22.3	1.0	mg/L	5.00	18.4	78.0	80-120			QM-05
Matrix Spike Dup (AD62927-MSD1)				Source: 16D0230-01		Prepared & Analyzed: 04/05/16				
Silica	22.2	1.0	mg/L	5.00	18.4	75.1	80-120	0.656	20	QM-05
Batch AD62949 - General Preparation										
Blank (AD62949-BLK1)				Prepared & Analyzed: 04/06/16						
Ammonia as NH3	ND	0.50	mg/L							
LCS (AD62949-BS1)				Prepared & Analyzed: 04/06/16						
Ammonia as NH3	5.75	0.50	mg/L	6.10		94.2	90-110			
LCS Dup (AD62949-BSD1)				Prepared & Analyzed: 04/06/16						
Ammonia as NH3	5.85	0.50	mg/L	6.10		96.0	90-110	1.83	10	
Matrix Spike (AD62949-MS1)				Source: 16D0159-01		Prepared & Analyzed: 04/06/16				
Ammonia as NH3	12.1	0.50	mg/L	12.2	ND	99.5	85-115			



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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
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Batch AD62949 - General Preparation

Matrix Spike Dup (AD62949-MSD1)

Source: 16D0159-01

Prepared & Analyzed: 04/06/16

Ammonia as NH ₃	11.9	0.50	mg/L	12.2	ND	97.7	85-115	1.77	20	
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Batch AD62954 - General Preparation

Blank (AD62954-BLK1)

Prepared: 04/06/16 Analyzed: 04/12/16

Total Dissolved Solids	ND	10	mg/L							
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Duplicate (AD62954-DUP1)

Source: 16D0213-01

Prepared: 04/06/16 Analyzed: 04/12/16

Total Dissolved Solids	600	10	mg/L		652			8.31	15	
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Duplicate (AD62954-DUP2)

Source: 16D0230-02

Prepared: 04/06/16 Analyzed: 04/12/16

Total Dissolved Solids	376	10	mg/L		404			7.18	15	
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Batch AD62961 - General Preparation

Duplicate (AD62961-DUP1)

Source: 16D0236-03

Prepared & Analyzed: 04/06/16

Bicarbonate	85.4	5.0	mg/L		84.2			1.44	20	
Hydroxide Alkalinity as CaCO ₃	ND	5.0	mg/L		ND				20	
Carbonate Alkalinity as CaCO ₃	ND	5.0	mg/L		ND				20	
Bicarbonate Alkalinity as CaCO ₃	70.0	5.0	mg/L		69.0			1.44	20	
Total Alkalinity as CaCO ₃	70.0	5.0	mg/L		69.0			1.44	20	

Batch AD62969 - General Preparation

Blank (AD62969-BLK1)

Prepared: 04/06/16 Analyzed: 04/08/16

Total Suspended Solids	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 AD62969 - General Preparation										
Duplicate (AD62969-DUP1)	Source: 16D0202-01			Prepared: 04/06/16 Analyzed: 04/08/16						
Total Suspended Solids	468	1.0	mg/L		490			4.70	30	
Duplicate (AD62969-DUP2)	Source: 16D0361-01			Prepared: 04/06/16 Analyzed: 04/08/16						
Total Suspended Solids	382	1.0	mg/L		335			13.2	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	
Batch AD63127 - General Preparation										
Blank (AD63127-BLK1)	Prepared: 04/06/16 Analyzed: 04/11/16									
Biochemical Oxygen Demand	ND	5.0	mg/L							



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Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Flag
Batch AD63127 - General Preparation									
Blank (AD63127-BLK2)				Prepared: 04/06/16 Analyzed: 04/11/16					
Biochemical Oxygen Demand	ND	5.0	mg/L						
LCS (AD63127-BS1)				Prepared: 04/05/16 Analyzed: 04/10/16					
Biochemical Oxygen Demand	220	5.0	mg/L	200	110	84-115			
Duplicate (AD63127-DUP1)				Source: 16D0344-02 Prepared: 04/06/16 Analyzed: 04/11/16					
Biochemical Oxygen Demand	ND	5.0	mg/L		ND			30	



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04/19/16 11:56

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 AD62920 - General Preparation										
Blank (AD62920-BLK1)				Prepared & Analyzed: 04/05/16						
Nitrite as N	ND	0.20	mg/L							
Nitrate 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							
LCS (AD62920-BS1)				Prepared & Analyzed: 04/05/16						
Nitrite as NO2	18.0	1.0	mg/L	18.2		98.8	90-110			
Nitrate as NO3	26	1.0	mg/L	24.7		104	90-110			
Nitrate as N	5.80	0.20	mg/L	5.56		104	90-110			
Nitrite as N	5.47	0.20	mg/L	5.56		98.5	90-110			
Chloride	11.5	0.50	mg/L	11.1		103	90-110			
Duplicate (AD62920-DUP1)				Source: 16D0166-01		Prepared & Analyzed: 04/05/16				
Chloride	3.78	0.50	mg/L		3.78			0.0264	20	
Nitrate as NO3	ND	1.0	mg/L		ND				20	
Nitrite as N	ND	0.20	mg/L		ND				20	
Nitrate as N	ND	0.20	mg/L		ND				20	
Nitrite as NO2	ND	1.0	mg/L		ND				20	
Matrix Spike (AD62920-MS1)				Source: 16D0166-01		Prepared & Analyzed: 04/05/16				
Chloride	14.9	2.5	mg/L	11.1	3.78	100	80-120			
Nitrite as N	5.30	1.0	mg/L	5.56	ND	95.4	80-120			
Nitrate as N	5.44	1.0	mg/L	5.56	ND	98.0	80-120			
Nitrite as NO2	17.4	5.0	mg/L	18.2	ND	95.7	80-120			
Nitrate as NO3	24	5.0	mg/L	24.7	ND	97.7	80-120			
Matrix Spike (AD62920-MS2)				Source: 16D0167-01		Prepared & Analyzed: 04/06/16				
Nitrate as N	7.01	0.20	mg/L	5.56	0.237	122	80-120			QM-07
Nitrite as NO2	20.1	1.0	mg/L	18.2	ND	110	80-120			
Nitrate as NO3	31	1.0	mg/L	24.7	1.0	122	80-120			QM-07
Nitrite as N	6.12	0.20	mg/L	5.56	ND	110	80-120			
Chloride	14.7	0.50	mg/L	11.1	3.13	105	80-120			

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

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

Reported:
04/19/16 11:56

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
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Batch AD62920 - General Preparation

Matrix Spike Dup (AD62920-MSD1)

Source: 16D0166-01

Prepared & Analyzed: 04/05/16

Chloride	14.9	2.5	mg/L	11.1	3.78	100	80-120	0.112	20	
Nitrate as N	5.47	1.0	mg/L	5.56	ND	98.4	80-120	0.437	20	
Nitrite as NO2	17.5	5.0	mg/L	18.2	ND	96.1	80-120	0.418	20	
Nitrate as NO3	24	5.0	mg/L	24.7	ND	98.2	80-120	0.437	20	
Nitrite as N	5.32	1.0	mg/L	5.56	ND	95.8	80-120	0.418	20	



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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.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- 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-14 Residual chlorine, dissolved oxygen, and pH must be analyzed in the field to meet the EPA specified 15 minute hold time.
- 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]