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*Alpha*

Alpha Analytical Laboratories Inc.

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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: 16D0196

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 10:42

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Oak Avenue	16D0196-01	Water	04/01/16 09:00	04/04/16 21:20



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

Reported:  
04/19/16 10:42

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
<b>Oak Avenue (16D0196-01)</b>								
<b>Sample Type: Water</b>								
<b>Sampled: 04/01/16 09:00</b>								
<b>Metals by EPA 200 Series Methods</b>								
Boron	0.31 mg/L	0.050	1	AD63175	04/12/16 16:00	04/14/16 15:56	EPA 200.7	
Calcium	39 mg/L	1.0	1	AD63175	04/12/16 16:00	04/14/16 15:56	EPA 200.7	
Magnesium	23 mg/L	1.0	1	AD63175	04/12/16 16:00	04/14/16 15:56	EPA 200.7	
Sodium	73 mg/L	1.0	1	AD63175	04/12/16 16:00	04/14/16 15:56	EPA 200.7	
<b>Conventional Chemistry Parameters by APHA/EPA Methods</b>								
Ammonia as NH <sub>3</sub>	58 mg/L	0.50	1	AD62949	04/06/16 08:00	04/06/16 17:00	SM4500NH3C	
Bicarbonate	380 mg/L	5.0	1	AD62960	04/06/16 09:33	04/06/16 17:00	SM2320B	
Biochemical Oxygen Demand	250 mg/L	5.0	1	AD63127	04/06/16 12:00	04/11/16 13:00	SM5210B	T-1, T-16
pH	7.58 pH Units	1.68	1	AD62924	04/04/16 18:40	04/04/16 18:40	SM4500-H+ B	T-14
Specific Conductance (EC)	1100 umhos/cm	20	1	AD62910	04/05/16 17:00	04/05/16 17:00	SM2510B	
Total Dissolved Solids	510 mg/L	10	1	AD62954	04/06/16 09:00	04/12/16 08:45	SM2540C	
Total Suspended Solids	82 mg/L	1.0	1	AD62969	04/06/16 11:13	04/08/16 11:00	SM2540D	
Silica	21 mg/L	2.0	2	AD62927	04/05/16 14:15	04/05/16 16:30	SM4500-SiO <sub>2</sub> C	
Bicarbonate Alkalinity as CaCO <sub>3</sub>	310 mg/L	5.0	1	AD62960	04/06/16 09:33	04/06/16 17:00	SM2320B	
Carbonate Alkalinity as CaCO <sub>3</sub>	ND mg/L	5.0	1	AD62960	04/06/16 09:33	04/06/16 17:00	SM2320B	
Hydroxide Alkalinity as CaCO <sub>3</sub>	ND mg/L	5.0	1	AD62960	04/06/16 09:33	04/06/16 17:00	SM2320B	
Total Alkalinity as CaCO <sub>3</sub>	310 mg/L	5.0	1	AD62960	04/06/16 09:33	04/06/16 17:00	SM2320B	
Total Kjeldahl Nitrogen	57 mg/L	1.0	1	AD62911	04/06/16 09:41	04/07/16 09:23	SM4500-Norg B	
Total Nitrogen	57 mg/L	1.0	1	AD62999	04/07/16 08:43	04/12/16 09:47	SM4500-N	
Phosphorus, total	6.0 mg/L	0.80	2	AD63089	04/11/16 08:00	04/11/16 12:48	SM4500-PE	
<b>Miscellaneous Physical/Conventional Chemistry Parameters</b>								
Sodium Adsorption Ratio-Adj RNA	2.70 NA		1	AD63175	04/12/16 16:00	04/19/16 07:09	SAR	

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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 10:42

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
<b>Oak Avenue (16D0196-01)</b>								
				<b>Sample Type: Water</b>		<b>Sampled: 04/01/16 09:00</b>		
<b>Anions by EPA Method 300.0</b>								
<b>Chloride</b>	<b>73 mg/L</b>	<b>10</b>	20	AD62920	04/05/16 16:46	04/05/16 16:46	EPA 300.0	
Nitrate as N	ND mg/L	0.20	1	AD62920	04/05/16 17:02	04/05/16 17:02	EPA 300.0	T-2
Nitrate as NO3	ND mg/L	1.0	1	AD62920	04/05/16 17:02	04/05/16 17:02	EPA 300.0	T-2
Nitrite as N	ND mg/L	0.20	1	AD62920	04/05/16 17:02	04/05/16 17:02	EPA 300.0	T-2
Nitrite as NO2	ND mg/L	1.0	1	AD62920	04/05/16 17:02	04/05/16 17:02	EPA 300.0	T-2



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Reported:  
04/19/16 10:42

### 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
<b>Batch AD63175 - Metals Digest</b>										
<b>Blank (AD63175-BLK1)</b>				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							
<b>LCS (AD63175-BS1)</b>				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			
<b>Duplicate (AD63175-DUP1)</b>				<b>Source: 16D0166-01</b>			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	
<b>Matrix Spike (AD63175-MS1)</b>				<b>Source: 16D0166-01</b>			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			
<b>Matrix Spike (AD63175-MS2)</b>				<b>Source: 16D0198-01</b>			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			

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Project Number: Oak Avenue

Reported:  
04/19/16 10:42

**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
<b>Batch AD63175 - Metals Digest</b>										
<b>Matrix Spike Dup (AD63175-MSD1)</b>	<b>Source: 16D0166-01</b>			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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Project Manager: John Simonetti  
Project: WQ Monitoring  
Project Number: Oak Avenue

Reported:  
04/19/16 10:42

**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
<b>Batch AD62910 - General Preparation</b>										
<b>Duplicate (AD62910-DUP1)</b>		<b>Source: 16D0236-03</b>		Prepared & Analyzed: 04/05/16						
Specific Conductance (EC)	165	20	umhos/cm		165			0.00	5	
<b>Batch AD62911 - General Prep</b>										
<b>LCS (AD62911-BS1)</b>				Prepared: 04/05/16 Analyzed: 04/06/16						
Total Kjeldahl Nitrogen	2.95	1.0	mg/L	2.98		99.0	80-120			
<b>LCS Dup (AD62911-BSD1)</b>				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	
<b>Matrix Spike (AD62911-MS1)</b>		<b>Source: 16D0191-01</b>		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			
<b>Matrix Spike Dup (AD62911-MSD1)</b>		<b>Source: 16D0191-01</b>		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	
<b>Batch AD62924 - General Preparation</b>										
<b>Duplicate (AD62924-DUP1)</b>		<b>Source: 16D0229-01</b>		Prepared & Analyzed: 04/04/16						
pH	9.00	1.68	pH Units		8.91			1.01	20	
<b>Duplicate (AD62924-DUP2)</b>		<b>Source: 16D0224-01</b>		Prepared & Analyzed: 04/04/16						
pH	8.33	1.68	pH Units		8.39			0.718	20	
<b>Batch AD62927 - General Preparation</b>										
<b>Blank (AD62927-BLK1)</b>				Prepared & Analyzed: 04/05/16						
Silica	ND	1.0	mg/L							

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

Reported:  
04/19/16 10:42

### 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
<b>Batch AD62927 - General Preparation</b>										
<b>LCS (AD62927-BS1)</b>				Prepared & Analyzed: 04/05/16						
Silica	10.0	1.0	mg/L	10.0		100	85-115			
<b>LCS Dup (AD62927-BSD1)</b>				Prepared & Analyzed: 04/05/16						
Silica	10.6	1.0	mg/L	10.0		106	85-115	5.65	20	
<b>Duplicate (AD62927-DUP1)</b>				<b>Source: 16D0230-01</b> Prepared & Analyzed: 04/05/16						
Silica	18.7	1.0	mg/L		18.4			1.57	20	
<b>Matrix Spike (AD62927-MS1)</b>				<b>Source: 16D0230-01</b> Prepared & Analyzed: 04/05/16						
Silica	22.3	1.0	mg/L	5.00	18.4	78.0	80-120			QM-05
<b>Matrix Spike Dup (AD62927-MSD1)</b>				<b>Source: 16D0230-01</b> 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
<b>Batch AD62949 - General Preparation</b>										
<b>Blank (AD62949-BLK1)</b>				Prepared & Analyzed: 04/06/16						
Ammonia as NH3	ND	0.50	mg/L							
<b>LCS (AD62949-BS1)</b>				Prepared & Analyzed: 04/06/16						
Ammonia as NH3	5.75	0.50	mg/L	6.10		94.2	90-110			
<b>LCS Dup (AD62949-BSD1)</b>				Prepared & Analyzed: 04/06/16						
Ammonia as NH3	5.85	0.50	mg/L	6.10		96.0	90-110	1.83	10	
<b>Matrix Spike (AD62949-MS1)</b>				<b>Source: 16D0159-01</b> 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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Project: WQ Monitoring  
Project Number: Oak Avenue

Reported:  
04/19/16 10:42

### 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
<b>Batch AD62949 - General Preparation</b>										
<b>Matrix Spike Dup (AD62949-MSD1)</b>		<b>Source: 16D0159-01</b>		Prepared & Analyzed: 04/06/16						
Ammonia as NH3	11.9	0.50	mg/L	12.2	ND	97.7	85-115	1.77	20	
<b>Batch AD62954 - General Preparation</b>										
<b>Blank (AD62954-BLK1)</b>				Prepared: 04/06/16 Analyzed: 04/12/16						
Total Dissolved Solids	ND	10	mg/L							
<b>Duplicate (AD62954-DUP1)</b>		<b>Source: 16D0213-01</b>		Prepared: 04/06/16 Analyzed: 04/12/16						
Total Dissolved Solids	600	10	mg/L		652			8.31	15	
<b>Duplicate (AD62954-DUP2)</b>		<b>Source: 16D0230-02</b>		Prepared: 04/06/16 Analyzed: 04/12/16						
Total Dissolved Solids	376	10	mg/L		404			7.18	15	
<b>Batch AD62960 - General Preparation</b>										
<b>Duplicate (AD62960-DUP1)</b>		<b>Source: 16D0170-02</b>		Prepared & Analyzed: 04/06/16						
Bicarbonate	14.6	5.0	mg/L		14.6			0.00	20	
Hydroxide Alkalinity as CaCO3	ND	5.0	mg/L		ND				20	
Carbonate Alkalinity as CaCO3	ND	5.0	mg/L		ND				20	
Bicarbonate Alkalinity as CaCO3	12.0	5.0	mg/L		12.0			0.00	20	
Total Alkalinity as CaCO3	12.0	5.0	mg/L		12.0			0.00	20	
<b>Batch AD62969 - General Preparation</b>										
<b>Blank (AD62969-BLK1)</b>				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
<b>Batch AD62969 - General Preparation</b>										
<b>Duplicate (AD62969-DUP1)</b>		<b>Source: 16D0202-01</b>		Prepared: 04/06/16 Analyzed: 04/08/16						
Total Suspended Solids	468	1.0	mg/L		490			4.70	30	
<b>Duplicate (AD62969-DUP2)</b>		<b>Source: 16D0361-01</b>		Prepared: 04/06/16 Analyzed: 04/08/16						
Total Suspended Solids	382	1.0	mg/L		335			13.2	30	
<b>Batch AD63089 - General Prep</b>										
<b>Blank (AD63089-BLK1)</b>		Prepared & Analyzed: 04/11/16								
Phosphorus, total	ND	0.040	mg/L							
<b>LCS (AD63089-BS1)</b>		Prepared & Analyzed: 04/11/16								
Phosphorus, total	0.200	0.040	mg/L	0.200		99.8	85-115			
<b>Duplicate (AD63089-DUP1)</b>		<b>Source: 16D0370-02</b>		Prepared & Analyzed: 04/11/16						
Phosphorus, total	3.21	0.80	mg/L		3.24			0.831	20	
<b>Matrix Spike (AD63089-MS1)</b>		<b>Source: 16D0370-02</b>		Prepared & Analyzed: 04/11/16						
Phosphorus, total	4.96	0.80	mg/L	2.00	3.24	86.1	70-130			
<b>Matrix Spike (AD63089-MS2)</b>		<b>Source: 16D0372-02</b>		Prepared & Analyzed: 04/11/16						
Phosphorus, total	5.04	0.80	mg/L	2.00	3.51	76.7	70-130			
<b>Matrix Spike Dup (AD63089-MSD1)</b>		<b>Source: 16D0370-02</b>		Prepared & Analyzed: 04/11/16						
Phosphorus, total	4.99	0.80	mg/L	2.00	3.24	87.4	70-130	0.543	20	
<b>Batch AD63127 - General Preparation</b>										
<b>Blank (AD63127-BLK1)</b>		Prepared: 04/06/16 Analyzed: 04/11/16								
Biochemical Oxygen Demand	ND	5.0	mg/L							

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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 10:42

**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
<b>Batch AD63127 - General Preparation</b>										
<b>Blank (AD63127-BLK2)</b>										
Biochemical Oxygen Demand	ND	5.0	mg/L							
Prepared: 04/06/16 Analyzed: 04/11/16										
<b>LCS (AD63127-BS1)</b>										
Biochemical Oxygen Demand	220	5.0	mg/L	200		110	84-115			
Prepared: 04/05/16 Analyzed: 04/10/16										
<b>Duplicate (AD63127-DUP1)</b>										
Biochemical Oxygen Demand	ND	5.0	mg/L		ND				30	
Source: 16D0344-02 Prepared: 04/06/16 Analyzed: 04/11/16										



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Project: WQ Monitoring  
Project Number: Oak Avenue

Reported:  
04/19/16 10:42

**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
<b>Batch AD62920 - General Preparation</b>										
<b>Blank (AD62920-BLK1)</b>				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							
<b>LCS (AD62920-BS1)</b>				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			
<b>Duplicate (AD62920-DUP1)</b>				<b>Source: 16D0166-01</b>			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	
<b>Matrix Spike (AD62920-MS1)</b>				<b>Source: 16D0166-01</b>			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			
<b>Matrix Spike (AD62920-MS2)</b>				<b>Source: 16D0167-01</b>			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			

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500 Laurel Street  
Menlo Park, CA 94025

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

Reported:  
04/19/16 10:42

**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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04/19/16 10:42

### 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-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-2 Sample analyzed 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

Company/Name: West Bay Sanitary District		Project ID: <b>WQ Monitoring</b>		Signature below authorizes work under terms stated on reverse side.												Sample Notes		TAT								
Mailing Address: 500 Laurel Street Menlo Park, CA 94025		Project No: <b>Oak Avenue</b>		Analysis Request												4.9		<input type="radio"/> 24 hr <input type="radio"/> 48 hr <input type="radio"/> 1 wk <input type="radio"/> 2 wk (standard)								
Project Contact & Email (Hardcopy or PDF to): John Simonetti jsimonetti@westbaysanitary.org		PO#																								
Phone/Fax:		Site Contact:																Lab Approval Required For Rush								
Field Sampler - Print Name & Signature		Sample Collection		Container		Preservative		Matrix		DU BOD	DU pH	200.7 - B, Ca, Mg, Na	Ammonia, Phosphorus	Total Nitrogen	Chloride, EC, NO2, NO3	Alkalinity, Bicarbonate	SAR Adjusted Calculation		Silica	TDS	TSS					
Sample Identification		Date	Time	40ml Vial	Poly	Glass	Sieve	Other	HCL	HNO3	H2SO4	None	Water	Soil	Other	DU BOD	DU pH	200.7 - B, Ca, Mg, Na	Ammonia, Phosphorus	Total Nitrogen	Chloride, EC, NO2, NO3	Alkalinity, Bicarbonate	SAR Adjusted Calculation	Silica	TDS	TSS
Oak Avenue		4-1-16	0900	4						1	1		x			x	x	x	x	x	x	x	x	x	x	x
Relinquished by: <i>Mark Pratorlon</i>		Received by: <i>[Signature]</i>		Date 4/4/16	Time 12:00													CDPH Write On EDT Report? Yes <input type="radio"/> No <input type="radio"/>								
Relinquished by: <i>[Signature]</i>		Received by: <i>[Signature]</i>		Date 4/4	Time 1720													State System Number: _____								
Relinquished by: <i>[Signature]</i>		Received by: <i>[Signature]</i>		Date 4/4/16	Time 18:00													CA Geotracker EDF Report Yes <input type="radio"/> No <input type="radio"/>								
Relinquished by: <i>[Signature]</i>		Received by: <i>[Signature]</i>		Date 4/4/16	Time 21:20													Sampling Company Log Code: _____								
Relinquished by:		Received by:		Date	Time													Global ID: _____ EDF to (Email Address): _____								
Relinquished by:		Received by:		Date	Time	Travel and Site Time:		Mileage:		Misc. Supplies:																





*Alpha*

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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: 16D0200

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 10:42

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Oak Avenue	16D0200-01	Water	04/02/16 09:00	04/04/16 21:20



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Project: WQ Monitoring  
Project Number: Oak Avenue

Reported:  
04/19/16 10:42

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
<b>Oak Avenue (16D0200-01)</b>		<b>Sample Type: Water</b>			<b>Sampled: 04/02/16 09:00</b>			
<b>Metals by EPA 200 Series Methods</b>								
Boron	0.31 mg/L	0.050	1	AD63175	04/12/16 16:00	04/14/16 16:11	EPA 200.7	
Calcium	38 mg/L	1.0	1	AD63175	04/12/16 16:00	04/14/16 16:11	EPA 200.7	
Magnesium	22 mg/L	1.0	1	AD63175	04/12/16 16:00	04/14/16 16:11	EPA 200.7	
Sodium	70 mg/L	1.0	1	AD63175	04/12/16 16:00	04/14/16 16:11	EPA 200.7	
<b>Conventional Chemistry Parameters by APHA/EPA Methods</b>								
Ammonia as NH3	60 mg/L	0.50	1	AD62949	04/06/16 08:00	04/06/16 17:00	SM4500NH3C	
Bicarbonate	370 mg/L	5.0	1	AD62960	04/06/16 09:33	04/06/16 17:00	SM2320B	
Biochemical Oxygen Demand	320 mg/L	5.0	1	AD63127	04/06/16 12:00	04/11/16 13:00	SM5210B	T-1, T-16
pH	7.49 pH Units	1.68	1	AD62924	04/04/16 18:40	04/04/16 18:40	SM4500-H+ B	T-14
Specific Conductance (EC)	1100 umhos/cm	20	1	AD62910	04/05/16 17:00	04/05/16 17:00	SM2510B	
Total Dissolved Solids	500 mg/L	10	1	AD62954	04/06/16 09:00	04/12/16 08:45	SM2540C	
Total Suspended Solids	410 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	AD62960	04/06/16 09:33	04/06/16 17:00	SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AD62960	04/06/16 09:33	04/06/16 17:00	SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AD62960	04/06/16 09:33	04/06/16 17:00	SM2320B	
Total Alkalinity as CaCO3	300 mg/L	5.0	1	AD62960	04/06/16 09:33	04/06/16 17:00	SM2320B	
Total Kjeldahl Nitrogen	57 mg/L	1.0	1	AD62911	04/06/16 09:41	04/07/16 09:23	SM4500-Norg B	
Total Nitrogen	57 mg/L	1.0	1	AD62999	04/07/16 08:43	04/12/16 09:47	SM4500-N	
Phosphorus, total	7.0 mg/L	0.80	2	AD63089	04/11/16 08:00	04/11/16 12:48	SM4500-PE	
<b>Miscellaneous Physical/Conventional Chemistry Parameters</b>								
Sodium Adsorption Ratio-Adj RNA	2.60 NA		1	AD63175	04/12/16 16:00	04/19/16 07:20	SAR	



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

Reported:  
04/19/16 10:42

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
<b>Oak Avenue (16D0200-01)</b>								
				<b>Sample Type: Water</b>		<b>Sampled: 04/02/16 09:00</b>		
<b>Anions by EPA Method 300.0</b>								
<b>Chloride</b>	<b>74 mg/L</b>	<b>10</b>	20	AD62920	04/05/16 17:18	04/05/16 17:18	EPA 300.0	
Nitrate as N	ND mg/L	0.20	1	AD62920	04/05/16 17:34	04/05/16 17:34	EPA 300.0	T-2
Nitrate as NO3	ND mg/L	1.0	1	AD62920	04/05/16 17:34	04/05/16 17:34	EPA 300.0	T-2
Nitrite as N	ND mg/L	0.20	1	AD62920	04/05/16 17:34	04/05/16 17:34	EPA 300.0	T-2
Nitrite as NO2	ND mg/L	1.0	1	AD62920	04/05/16 17:34	04/05/16 17:34	EPA 300.0	T-2



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Project Number: Oak Avenue

Reported:  
04/19/16 10:42

### 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	
<b>Batch AD63175 - Metals Digest</b>											
<b>Blank (AD63175-BLK1)</b>				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								
<b>LCS (AD63175-BS1)</b>				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				
<b>Duplicate (AD63175-DUP1)</b>				<b>Source: 16D0166-01</b>			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		
<b>Matrix Spike (AD63175-MS1)</b>				<b>Source: 16D0166-01</b>			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				
<b>Matrix Spike (AD63175-MS2)</b>				<b>Source: 16D0198-01</b>			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				

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Project Number: Oak Avenue

Reported:  
04/19/16 10:42

**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
<b>Batch AD63175 - Metals Digest</b>										
<b>Matrix Spike Dup (AD63175-MSD1)</b>	<b>Source: 16D0166-01</b>			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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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 10:42

### 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
<b>Batch AD62910 - General Preparation</b>										
<b>Duplicate (AD62910-DUP1)</b>		<b>Source: 16D0236-03</b>		Prepared & Analyzed: 04/05/16						
Specific Conductance (EC)	165	20	umhos/cm		165			0.00	5	
<b>Batch AD62911 - General Prep</b>										
<b>LCS (AD62911-BS1)</b>				Prepared: 04/05/16 Analyzed: 04/06/16						
Total Kjeldahl Nitrogen	2.95	1.0	mg/L	2.98		99.0	80-120			
<b>LCS Dup (AD62911-BSD1)</b>				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	
<b>Matrix Spike (AD62911-MS1)</b>		<b>Source: 16D0191-01</b>		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			
<b>Matrix Spike Dup (AD62911-MSD1)</b>		<b>Source: 16D0191-01</b>		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	
<b>Batch AD62924 - General Preparation</b>										
<b>Duplicate (AD62924-DUP1)</b>		<b>Source: 16D0229-01</b>		Prepared & Analyzed: 04/04/16						
pH	9.00	1.68	pH Units		8.91			1.01	20	
<b>Duplicate (AD62924-DUP2)</b>		<b>Source: 16D0224-01</b>		Prepared & Analyzed: 04/04/16						
pH	8.33	1.68	pH Units		8.39			0.718	20	
<b>Batch AD62927 - General Preparation</b>										
<b>Blank (AD62927-BLK1)</b>				Prepared & Analyzed: 04/05/16						
Silica	ND	1.0	mg/L							

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500 Laurel Street  
Menlo Park, CA 94025

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

Reported:  
04/19/16 10:42

### 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
<b>Batch AD62927 - General Preparation</b>										
<b>LCS (AD62927-BS1)</b>				Prepared & Analyzed: 04/05/16						
Silica	10.0	1.0	mg/L	10.0		100	85-115			
<b>LCS Dup (AD62927-BSD1)</b>				Prepared & Analyzed: 04/05/16						
Silica	10.6	1.0	mg/L	10.0		106	85-115	5.65	20	
<b>Duplicate (AD62927-DUP1)</b>				<b>Source: 16D0230-01</b> Prepared & Analyzed: 04/05/16						
Silica	18.7	1.0	mg/L		18.4			1.57	20	
<b>Matrix Spike (AD62927-MS1)</b>				<b>Source: 16D0230-01</b> Prepared & Analyzed: 04/05/16						
Silica	22.3	1.0	mg/L	5.00	18.4	78.0	80-120			QM-05
<b>Matrix Spike Dup (AD62927-MSD1)</b>				<b>Source: 16D0230-01</b> 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
<b>Batch AD62949 - General Preparation</b>										
<b>Blank (AD62949-BLK1)</b>				Prepared & Analyzed: 04/06/16						
Ammonia as NH3	ND	0.50	mg/L							
<b>LCS (AD62949-BS1)</b>				Prepared & Analyzed: 04/06/16						
Ammonia as NH3	5.75	0.50	mg/L	6.10		94.2	90-110			
<b>LCS Dup (AD62949-BSD1)</b>				Prepared & Analyzed: 04/06/16						
Ammonia as NH3	5.85	0.50	mg/L	6.10		96.0	90-110	1.83	10	
<b>Matrix Spike (AD62949-MS1)</b>				<b>Source: 16D0159-01</b> 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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Project Manager: John Simonetti  
Project: WQ Monitoring  
Project Number: Oak Avenue

Reported:  
04/19/16 10:42

### 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
<b>Batch AD62949 - General Preparation</b>										
<b>Matrix Spike Dup (AD62949-MSD1)</b>		<b>Source: 16D0159-01</b>		Prepared & Analyzed: 04/06/16						
Ammonia as NH3	11.9	0.50	mg/L	12.2	ND	97.7	85-115	1.77	20	
<b>Batch AD62954 - General Preparation</b>										
<b>Blank (AD62954-BLK1)</b>				Prepared: 04/06/16 Analyzed: 04/12/16						
Total Dissolved Solids	ND	10	mg/L							
<b>Duplicate (AD62954-DUP1)</b>		<b>Source: 16D0213-01</b>		Prepared: 04/06/16 Analyzed: 04/12/16						
Total Dissolved Solids	600	10	mg/L		652			8.31	15	
<b>Duplicate (AD62954-DUP2)</b>		<b>Source: 16D0230-02</b>		Prepared: 04/06/16 Analyzed: 04/12/16						
Total Dissolved Solids	376	10	mg/L		404			7.18	15	
<b>Batch AD62960 - General Preparation</b>										
<b>Duplicate (AD62960-DUP1)</b>		<b>Source: 16D0170-02</b>		Prepared & Analyzed: 04/06/16						
Bicarbonate	14.6	5.0	mg/L		14.6			0.00	20	
Hydroxide Alkalinity as CaCO3	ND	5.0	mg/L		ND				20	
Carbonate Alkalinity as CaCO3	ND	5.0	mg/L		ND				20	
Bicarbonate Alkalinity as CaCO3	12.0	5.0	mg/L		12.0			0.00	20	
Total Alkalinity as CaCO3	12.0	5.0	mg/L		12.0			0.00	20	
<b>Batch AD62969 - General Preparation</b>										
<b>Blank (AD62969-BLK1)</b>				Prepared: 04/06/16 Analyzed: 04/08/16						
Total Suspended Solids	ND	1.0	mg/L							



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Project: WQ Monitoring  
Project Number: Oak Avenue

Reported:  
04/19/16 10:42

### 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
<b>Batch AD62969 - General Preparation</b>										
<b>Duplicate (AD62969-DUP1)</b>		<b>Source: 16D0202-01</b>		Prepared: 04/06/16		Analyzed: 04/08/16				
Total Suspended Solids	468	1.0	mg/L		490			4.70	30	
<b>Duplicate (AD62969-DUP2)</b>		<b>Source: 16D0361-01</b>		Prepared: 04/06/16		Analyzed: 04/08/16				
Total Suspended Solids	382	1.0	mg/L		335			13.2	30	
<b>Batch AD63089 - General Prep</b>										
<b>Blank (AD63089-BLK1)</b>				Prepared & Analyzed: 04/11/16						
Phosphorus, total	ND	0.040	mg/L							
<b>LCS (AD63089-BS1)</b>				Prepared & Analyzed: 04/11/16						
Phosphorus, total	0.200	0.040	mg/L	0.200		99.8	85-115			
<b>Duplicate (AD63089-DUP1)</b>		<b>Source: 16D0370-02</b>		Prepared & Analyzed: 04/11/16						
Phosphorus, total	3.21	0.80	mg/L		3.24			0.831	20	
<b>Matrix Spike (AD63089-MS1)</b>		<b>Source: 16D0370-02</b>		Prepared & Analyzed: 04/11/16						
Phosphorus, total	4.96	0.80	mg/L	2.00	3.24	86.1	70-130			
<b>Matrix Spike (AD63089-MS2)</b>		<b>Source: 16D0372-02</b>		Prepared & Analyzed: 04/11/16						
Phosphorus, total	5.04	0.80	mg/L	2.00	3.51	76.7	70-130			
<b>Matrix Spike Dup (AD63089-MSD1)</b>		<b>Source: 16D0370-02</b>		Prepared & Analyzed: 04/11/16						
Phosphorus, total	4.99	0.80	mg/L	2.00	3.24	87.4	70-130	0.543	20	
<b>Batch AD63127 - General Preparation</b>										
<b>Blank (AD63127-BLK1)</b>				Prepared: 04/06/16		Analyzed: 04/11/16				
Biochemical Oxygen Demand	ND	5.0	mg/L							

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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 10:42

**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
<b>Batch AD63127 - General Preparation</b>										
<b>Blank (AD63127-BLK2)</b>										
Biochemical Oxygen Demand	ND	5.0	mg/L							
Prepared: 04/06/16 Analyzed: 04/11/16										
<b>LCS (AD63127-BS1)</b>										
Biochemical Oxygen Demand	220	5.0	mg/L	200		110	84-115			
Prepared: 04/05/16 Analyzed: 04/10/16										
<b>Duplicate (AD63127-DUP1)</b>										
Biochemical Oxygen Demand	ND	5.0	mg/L		ND				30	
Source: 16D0344-02 Prepared: 04/06/16 Analyzed: 04/11/16										



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Project Number: Oak Avenue

Reported:  
04/19/16 10:42

### 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
<b>Batch AD62920 - General Preparation</b>										
<b>Blank (AD62920-BLK1)</b>				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							
<b>LCS (AD62920-BS1)</b>				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			
<b>Duplicate (AD62920-DUP1)</b>				<b>Source: 16D0166-01</b>			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	
<b>Matrix Spike (AD62920-MS1)</b>				<b>Source: 16D0166-01</b>			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			
<b>Matrix Spike (AD62920-MS2)</b>				<b>Source: 16D0167-01</b>			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			

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Project Number: Oak Avenue

Reported:  
04/19/16 10:42

**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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Reported:  
04/19/16 10:42

#### 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-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-2 Sample analyzed 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





*Alpha*

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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: 16D0202

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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Project Number: Oak Avenue

Reported:  
04/19/16 10:42

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Oak Avenue	16D0202-01	Water	04/03/16 09:00	04/04/16 21:20



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Project Number: Oak Avenue

Reported:  
04/19/16 10:42

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
<b>Oak Avenue (16D0202-01)</b>								
<b>Sample Type: Water</b>								
<b>Sampled: 04/03/16 09:00</b>								
<b>Metals by EPA 200 Series Methods</b>								
Boron	0.30 mg/L	0.050	1	AD63175	04/12/16 16:00	04/14/16 16:15	EPA 200.7	
Calcium	44 mg/L	1.0	1	AD63175	04/12/16 16:00	04/14/16 16:15	EPA 200.7	
Magnesium	22 mg/L	1.0	1	AD63175	04/12/16 16:00	04/14/16 16:15	EPA 200.7	
Sodium	71 mg/L	1.0	1	AD63175	04/12/16 16:00	04/14/16 16:15	EPA 200.7	
<b>Conventional Chemistry Parameters by APHA/EPA Methods</b>								
Ammonia as NH3	49 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	360 mg/L	5.0	1	AD63122	04/05/16 09:00	04/10/16 14:00	SM5210B	
pH	7.46 pH Units	1.68	1	AD62924	04/04/16 18:40	04/04/16 18:40	SM4500-H+ B	T-14
Specific Conductance (EC)	1000 umhos/cm	20	1	AD62910	04/05/16 17:00	04/05/16 17:00	SM2510B	
Total Dissolved Solids	500 mg/L	10	1	AD62954	04/06/16 09:00	04/12/16 08:45	SM2540C	
Total Suspended Solids	490 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	04/06/16 09:41	04/07/16 09:23	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	7.4 mg/L	2.0	5	AD63089	04/11/16 08:00	04/11/16 12:48	SM4500-PE	
<b>Miscellaneous Physical/Conventional Chemistry Parameters</b>								
Sodium Adsorption Ratio-Adj RNA	2.60 NA		1	AD63175	04/12/16 16:00	04/19/16 07:22	SAR	

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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 10:42

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
<b>Oak Avenue (16D0202-01)</b>		<b>Sample Type: Water</b>			<b>Sampled: 04/03/16 09:00</b>			
<b>Anions by EPA Method 300.0</b>								
<b>Chloride</b>	<b>74 mg/L</b>	<b>10</b>	20	AD62920	04/05/16 17:50	04/05/16 17:50	EPA 300.0	
Nitrate as N	ND mg/L	0.20	1	AD62920	04/05/16 18:06	04/05/16 18:06	EPA 300.0	T-2
Nitrate as NO3	ND mg/L	1.0	1	AD62920	04/05/16 18:06	04/05/16 18:06	EPA 300.0	T-2
Nitrite as N	ND mg/L	0.20	1	AD62920	04/05/16 18:06	04/05/16 18:06	EPA 300.0	T-2
Nitrite as NO2	ND mg/L	1.0	1	AD62920	04/05/16 18:06	04/05/16 18:06	EPA 300.0	T-2



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Reported:  
04/19/16 10:42

### 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
<b>Batch AD63175 - Metals Digest</b>										
<b>Blank (AD63175-BLK1)</b>				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							
<b>LCS (AD63175-BS1)</b>				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			
<b>Duplicate (AD63175-DUP1)</b>				<b>Source: 16D0166-01</b>			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	
<b>Matrix Spike (AD63175-MS1)</b>				<b>Source: 16D0166-01</b>			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			
<b>Matrix Spike (AD63175-MS2)</b>				<b>Source: 16D0198-01</b>			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			

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Project: WQ Monitoring  
Project Number: Oak Avenue

Reported:  
04/19/16 10:42

**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
<b>Batch AD63175 - Metals Digest</b>										
<b>Matrix Spike Dup (AD63175-MSD1)</b>	<b>Source: 16D0166-01</b>				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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Project Manager: John Simonetti  
Project: WQ Monitoring  
Project Number: Oak Avenue

Reported:  
04/19/16 10:42

**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
<b>Batch AD62910 - General Preparation</b>										
<b>Duplicate (AD62910-DUP1)</b>		<b>Source: 16D0236-03</b>		Prepared & Analyzed: 04/05/16						
Specific Conductance (EC)	165	20	umhos/cm		165			0.00	5	
<b>Batch AD62911 - General Prep</b>										
<b>LCS (AD62911-BS1)</b>				Prepared: 04/05/16 Analyzed: 04/06/16						
Total Kjeldahl Nitrogen	2.95	1.0	mg/L	2.98		99.0	80-120			
<b>LCS Dup (AD62911-BSD1)</b>				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	
<b>Matrix Spike (AD62911-MS1)</b>		<b>Source: 16D0191-01</b>		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			
<b>Matrix Spike Dup (AD62911-MSD1)</b>		<b>Source: 16D0191-01</b>		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	
<b>Batch AD62924 - General Preparation</b>										
<b>Duplicate (AD62924-DUP1)</b>		<b>Source: 16D0229-01</b>		Prepared & Analyzed: 04/04/16						
pH	9.00	1.68	pH Units		8.91			1.01	20	
<b>Duplicate (AD62924-DUP2)</b>		<b>Source: 16D0224-01</b>		Prepared & Analyzed: 04/04/16						
pH	8.33	1.68	pH Units		8.39			0.718	20	
<b>Batch AD62927 - General Preparation</b>										
<b>Blank (AD62927-BLK1)</b>				Prepared & Analyzed: 04/05/16						
Silica	ND	1.0	mg/L							

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Menlo Park, CA 94025

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

Reported:  
04/19/16 10:42

### 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
<b>Batch AD62927 - General Preparation</b>										
<b>LCS (AD62927-BS1)</b>				Prepared & Analyzed: 04/05/16						
Silica	10.0	1.0	mg/L	10.0		100	85-115			
<b>LCS Dup (AD62927-BSD1)</b>				Prepared & Analyzed: 04/05/16						
Silica	10.6	1.0	mg/L	10.0		106	85-115	5.65	20	
<b>Duplicate (AD62927-DUP1)</b>				<b>Source: 16D0230-01</b>		Prepared & Analyzed: 04/05/16				
Silica	18.7	1.0	mg/L		18.4			1.57	20	
<b>Matrix Spike (AD62927-MS1)</b>				<b>Source: 16D0230-01</b>		Prepared & Analyzed: 04/05/16				
Silica	22.3	1.0	mg/L	5.00	18.4	78.0	80-120			QM-05
<b>Matrix Spike Dup (AD62927-MSD1)</b>				<b>Source: 16D0230-01</b>		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
<b>Batch AD62949 - General Preparation</b>										
<b>Blank (AD62949-BLK1)</b>				Prepared & Analyzed: 04/06/16						
Ammonia as NH3	ND	0.50	mg/L							
<b>LCS (AD62949-BS1)</b>				Prepared & Analyzed: 04/06/16						
Ammonia as NH3	5.75	0.50	mg/L	6.10		94.2	90-110			
<b>LCS Dup (AD62949-BSD1)</b>				Prepared & Analyzed: 04/06/16						
Ammonia as NH3	5.85	0.50	mg/L	6.10		96.0	90-110	1.83	10	
<b>Matrix Spike (AD62949-MS1)</b>				<b>Source: 16D0159-01</b>		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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Project: WQ Monitoring  
Project Number: Oak Avenue

Reported:  
04/19/16 10:42

### 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
<b>Batch AD62949 - General Preparation</b>										
<b>Matrix Spike Dup (AD62949-MSD1)</b>		<b>Source: 16D0159-01</b>		Prepared & Analyzed: 04/06/16						
Ammonia as NH3	11.9	0.50	mg/L	12.2	ND	97.7	85-115	1.77	20	
<b>Batch AD62954 - General Preparation</b>										
<b>Blank (AD62954-BLK1)</b>				Prepared: 04/06/16 Analyzed: 04/12/16						
Total Dissolved Solids	ND	10	mg/L							
<b>Duplicate (AD62954-DUP1)</b>		<b>Source: 16D0213-01</b>		Prepared: 04/06/16 Analyzed: 04/12/16						
Total Dissolved Solids	600	10	mg/L		652			8.31	15	
<b>Duplicate (AD62954-DUP2)</b>		<b>Source: 16D0230-02</b>		Prepared: 04/06/16 Analyzed: 04/12/16						
Total Dissolved Solids	376	10	mg/L		404			7.18	15	
<b>Batch AD62961 - General Preparation</b>										
<b>Duplicate (AD62961-DUP1)</b>		<b>Source: 16D0236-03</b>		Prepared & Analyzed: 04/06/16						
Bicarbonate	85.4	5.0	mg/L		84.2			1.44	20	
Carbonate Alkalinity as CaCO3	ND	5.0	mg/L		ND				20	
Total Alkalinity as CaCO3	70.0	5.0	mg/L		69.0			1.44	20	
Hydroxide Alkalinity as CaCO3	ND	5.0	mg/L		ND				20	
Bicarbonate Alkalinity as CaCO3	70.0	5.0	mg/L		69.0			1.44	20	
<b>Batch AD62969 - General Preparation</b>										
<b>Blank (AD62969-BLK1)</b>				Prepared: 04/06/16 Analyzed: 04/08/16						
Total Suspended Solids	ND	1.0	mg/L							





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Project Number: Oak Avenue

Reported:  
04/19/16 10:42

### 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
<b>Batch AD62969 - General Preparation</b>										
<b>Duplicate (AD62969-DUP1)</b>		<b>Source: 16D0202-01</b>		Prepared: 04/06/16		Analyzed: 04/08/16				
Total Suspended Solids	468	1.0	mg/L		490			4.70	30	
<b>Duplicate (AD62969-DUP2)</b>		<b>Source: 16D0361-01</b>		Prepared: 04/06/16		Analyzed: 04/08/16				
Total Suspended Solids	382	1.0	mg/L		335			13.2	30	
<b>Batch AD63089 - General Prep</b>										
<b>Blank (AD63089-BLK1)</b>				Prepared & Analyzed: 04/11/16						
Phosphorus, total	ND	0.040	mg/L							
<b>LCS (AD63089-BS1)</b>				Prepared & Analyzed: 04/11/16						
Phosphorus, total	0.200	0.040	mg/L	0.200		99.8	85-115			
<b>Duplicate (AD63089-DUP1)</b>		<b>Source: 16D0370-02</b>		Prepared & Analyzed: 04/11/16						
Phosphorus, total	3.21	0.80	mg/L		3.24			0.831	20	
<b>Matrix Spike (AD63089-MS1)</b>		<b>Source: 16D0370-02</b>		Prepared & Analyzed: 04/11/16						
Phosphorus, total	4.96	0.80	mg/L	2.00	3.24	86.1	70-130			
<b>Matrix Spike (AD63089-MS2)</b>		<b>Source: 16D0372-02</b>		Prepared & Analyzed: 04/11/16						
Phosphorus, total	5.04	0.80	mg/L	2.00	3.51	76.7	70-130			
<b>Matrix Spike Dup (AD63089-MSD1)</b>		<b>Source: 16D0370-02</b>		Prepared & Analyzed: 04/11/16						
Phosphorus, total	4.99	0.80	mg/L	2.00	3.24	87.4	70-130	0.543	20	
<b>Batch AD63122 - General Preparation</b>										
<b>Blank (AD63122-BLK1)</b>				Prepared: 04/05/16		Analyzed: 04/10/16				
Biochemical Oxygen Demand	ND	5.0	mg/L							

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Project Number: Oak Avenue

Reported:  
04/19/16 10:42

**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
<b>Batch AD63122 - General Preparation</b>										
<b>Blank (AD63122-BLK2)</b>										
Biochemical Oxygen Demand	ND	5.0	mg/L							
Prepared: 04/05/16 Analyzed: 04/10/16										
<b>LCS (AD63122-BS1)</b>										
Biochemical Oxygen Demand	220	5.0	mg/L	200		110	84-115			
Prepared: 04/05/16 Analyzed: 04/10/16										
<b>Duplicate (AD63122-DUP1)</b>										
Biochemical Oxygen Demand	340	5.0	mg/L		360			5.85	30	
Source: 16D0202-01 Prepared: 04/05/16 Analyzed: 04/10/16										



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Reported:  
04/19/16 10:42

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

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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 10:42

**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

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	
Nitrate as N	5.47	1.0	mg/L	5.56	ND	98.4	80-120	0.437	20	
Nitrite as N	5.32	1.0	mg/L	5.56	ND	95.8	80-120	0.418	20	
Chloride	14.9	2.5	mg/L	11.1	3.78	100	80-120	0.112	20	



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04/19/16 10:42

#### 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.
- T-2 Sample analyzed 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





*Alpha*

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

Reported:  
04/19/16 11:56

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
<b>Oak Avenue (16D0206-01)</b>								
<b>Sample Type: Water</b>								
<b>Sampled: 04/04/16 09:00</b>								
<b>Metals by EPA 200 Series Methods</b>								
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	
<b>Conventional Chemistry Parameters by APHA/EPA Methods</b>								
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-PE	
<b>Miscellaneous Physical/Conventional Chemistry Parameters</b>								
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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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

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
<b>Oak Avenue (16D0206-01)</b>								
				<b>Sample Type: Water</b>		<b>Sampled: 04/04/16 09:00</b>		
<b>Anions by EPA Method 300.0</b>								
<b>Chloride</b>	<b>64 mg/L</b>	<b>10</b>	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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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
<b>Batch AD63175 - Metals Digest</b>										
<b>Blank (AD63175-BLK1)</b>				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							
<b>LCS (AD63175-BS1)</b>				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			
<b>Duplicate (AD63175-DUP1)</b>				<b>Source: 16D0166-01</b>			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	
<b>Matrix Spike (AD63175-MS1)</b>				<b>Source: 16D0166-01</b>			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			
<b>Matrix Spike (AD63175-MS2)</b>				<b>Source: 16D0198-01</b>			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			

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Project Manager: John Simonetti  
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
<b>Batch AD63175 - Metals Digest</b>										
<b>Matrix Spike Dup (AD63175-MSD1)</b>	<b>Source: 16D0166-01</b>				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:  
04/19/16 11:56

### 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
<b>Batch AD62910 - General Preparation</b>										
<b>Duplicate (AD62910-DUP1)</b>		<b>Source: 16D0236-03</b>		Prepared & Analyzed: 04/05/16						
Specific Conductance (EC)	165	20	umhos/cm		165			0.00	5	
<b>Batch AD62911 - General Prep</b>										
<b>LCS (AD62911-BS1)</b>				Prepared: 04/05/16 Analyzed: 04/06/16						
Total Kjeldahl Nitrogen	2.95	1.0	mg/L	2.98		99.0	80-120			
<b>LCS Dup (AD62911-BSD1)</b>				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	
<b>Matrix Spike (AD62911-MS1)</b>		<b>Source: 16D0191-01</b>		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			
<b>Matrix Spike Dup (AD62911-MSD1)</b>		<b>Source: 16D0191-01</b>		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	
<b>Batch AD62924 - General Preparation</b>										
<b>Duplicate (AD62924-DUP1)</b>		<b>Source: 16D0229-01</b>		Prepared & Analyzed: 04/04/16						
pH	9.00	1.68	pH Units		8.91			1.01	20	
<b>Duplicate (AD62924-DUP2)</b>		<b>Source: 16D0224-01</b>		Prepared & Analyzed: 04/04/16						
pH	8.33	1.68	pH Units		8.39			0.718	20	
<b>Batch AD62927 - General Preparation</b>										
<b>Blank (AD62927-BLK1)</b>				Prepared & Analyzed: 04/05/16						
Silica	ND	1.0	mg/L							

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

Reported:  
04/19/16 11:56

### 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
<b>Batch AD62927 - General Preparation</b>										
<b>LCS (AD62927-BS1)</b>				Prepared & Analyzed: 04/05/16						
Silica	10.0	1.0	mg/L	10.0		100	85-115			
<b>LCS Dup (AD62927-BSD1)</b>				Prepared & Analyzed: 04/05/16						
Silica	10.6	1.0	mg/L	10.0		106	85-115	5.65	20	
<b>Duplicate (AD62927-DUP1)</b>				Source: 16D0230-01 Prepared & Analyzed: 04/05/16						
Silica	18.7	1.0	mg/L		18.4			1.57	20	
<b>Matrix Spike (AD62927-MS1)</b>				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
<b>Matrix Spike Dup (AD62927-MSD1)</b>				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
<b>Batch AD62949 - General Preparation</b>										
<b>Blank (AD62949-BLK1)</b>				Prepared & Analyzed: 04/06/16						
Ammonia as NH3	ND	0.50	mg/L							
<b>LCS (AD62949-BS1)</b>				Prepared & Analyzed: 04/06/16						
Ammonia as NH3	5.75	0.50	mg/L	6.10		94.2	90-110			
<b>LCS Dup (AD62949-BSD1)</b>				Prepared & Analyzed: 04/06/16						
Ammonia as NH3	5.85	0.50	mg/L	6.10		96.0	90-110	1.83	10	
<b>Matrix Spike (AD62949-MS1)</b>				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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Project Manager: John Simonetti  
Project: WQ Monitoring  
Project Number: Oak Avenue

Reported:  
04/19/16 11:56

### 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
<b>Batch AD62949 - General Preparation</b>										
<b>Matrix Spike Dup (AD62949-MSD1)</b>		<b>Source: 16D0159-01</b>		Prepared & Analyzed: 04/06/16						
Ammonia as NH3	11.9	0.50	mg/L	12.2	ND	97.7	85-115	1.77	20	
<b>Batch AD62954 - General Preparation</b>										
<b>Blank (AD62954-BLK1)</b>				Prepared: 04/06/16 Analyzed: 04/12/16						
Total Dissolved Solids	ND	10	mg/L							
<b>Duplicate (AD62954-DUP1)</b>		<b>Source: 16D0213-01</b>		Prepared: 04/06/16 Analyzed: 04/12/16						
Total Dissolved Solids	600	10	mg/L		652			8.31	15	
<b>Duplicate (AD62954-DUP2)</b>		<b>Source: 16D0230-02</b>		Prepared: 04/06/16 Analyzed: 04/12/16						
Total Dissolved Solids	376	10	mg/L		404			7.18	15	
<b>Batch AD62961 - General Preparation</b>										
<b>Duplicate (AD62961-DUP1)</b>		<b>Source: 16D0236-03</b>		Prepared & Analyzed: 04/06/16						
Bicarbonate	85.4	5.0	mg/L		84.2			1.44	20	
Hydroxide Alkalinity as CaCO3	ND	5.0	mg/L		ND				20	
Carbonate Alkalinity as CaCO3	ND	5.0	mg/L		ND				20	
Bicarbonate Alkalinity as CaCO3	70.0	5.0	mg/L		69.0			1.44	20	
Total Alkalinity as CaCO3	70.0	5.0	mg/L		69.0			1.44	20	
<b>Batch AD62969 - General Preparation</b>										
<b>Blank (AD62969-BLK1)</b>				Prepared: 04/06/16 Analyzed: 04/08/16						
Total Suspended Solids	ND	1.0	mg/L							



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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

### 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
<b>Batch AD62969 - General Preparation</b>										
<b>Duplicate (AD62969-DUP1)</b>		<b>Source: 16D0202-01</b>		Prepared: 04/06/16		Analyzed: 04/08/16				
Total Suspended Solids	468	1.0	mg/L		490			4.70	30	
<b>Duplicate (AD62969-DUP2)</b>		<b>Source: 16D0361-01</b>		Prepared: 04/06/16		Analyzed: 04/08/16				
Total Suspended Solids	382	1.0	mg/L		335			13.2	30	
<b>Batch AD63089 - General Prep</b>										
<b>Blank (AD63089-BLK1)</b>				Prepared & Analyzed: 04/11/16						
Phosphorus, total	ND	0.040	mg/L							
<b>LCS (AD63089-BS1)</b>				Prepared & Analyzed: 04/11/16						
Phosphorus, total	0.200	0.040	mg/L	0.200		99.8	85-115			
<b>Duplicate (AD63089-DUP1)</b>		<b>Source: 16D0370-02</b>		Prepared & Analyzed: 04/11/16						
Phosphorus, total	3.21	0.80	mg/L		3.24			0.831	20	
<b>Matrix Spike (AD63089-MS1)</b>		<b>Source: 16D0370-02</b>		Prepared & Analyzed: 04/11/16						
Phosphorus, total	4.96	0.80	mg/L	2.00	3.24	86.1	70-130			
<b>Matrix Spike (AD63089-MS2)</b>		<b>Source: 16D0372-02</b>		Prepared & Analyzed: 04/11/16						
Phosphorus, total	5.04	0.80	mg/L	2.00	3.51	76.7	70-130			
<b>Matrix Spike Dup (AD63089-MSD1)</b>		<b>Source: 16D0370-02</b>		Prepared & Analyzed: 04/11/16						
Phosphorus, total	4.99	0.80	mg/L	2.00	3.24	87.4	70-130	0.543	20	
<b>Batch AD63127 - General Preparation</b>										
<b>Blank (AD63127-BLK1)</b>				Prepared: 04/06/16		Analyzed: 04/11/16				
Biochemical Oxygen Demand	ND	5.0	mg/L							

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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

**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
<b>Batch AD63127 - General Preparation</b>										
<b>Blank (AD63127-BLK2)</b>										
Biochemical Oxygen Demand	ND	5.0	mg/L							
Prepared: 04/06/16 Analyzed: 04/11/16										
<b>LCS (AD63127-BS1)</b>										
Biochemical Oxygen Demand	220	5.0	mg/L	200		110	84-115			
Prepared: 04/05/16 Analyzed: 04/10/16										
<b>Duplicate (AD63127-DUP1)</b>										
Biochemical Oxygen Demand	ND	5.0	mg/L		ND				30	
Source: 16D0344-02 Prepared: 04/06/16 Analyzed: 04/11/16										



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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
<b>Batch AD62920 - General Preparation</b>										
<b>Blank (AD62920-BLK1)</b>				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							
<b>LCS (AD62920-BS1)</b>				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			
<b>Duplicate (AD62920-DUP1)</b>				<b>Source: 16D0166-01</b>			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	
<b>Matrix Spike (AD62920-MS1)</b>				<b>Source: 16D0166-01</b>			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			
<b>Matrix Spike (AD62920-MS2)</b>				<b>Source: 16D0167-01</b>			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			

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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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Reported:  
04/19/16 11:56

#### 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

Company/Name: West Bay Sanitary District		Project ID: <b>WQ Monitoring</b>		Signature below authorizes work under terms stated on reverse side.												Analysis Request		Sample Notes		TAT									
Mailing Address: 500 Laurel Street Menlo Park, CA 94025		Project No: <b>Oak Avenue</b>														4.9		24 hr <input type="radio"/> 48 hr <input type="radio"/> Lab Approval Required For Rush Required: 1 wk <input type="radio"/> 2 wk (standard) <input type="radio"/>											
Project Contact & Email (Hardcopy or PDF to): John Simonetti jsimonetti@westbaysanitary.org		PO#																											
Phone/Fax: <u>650-321-0384</u>		Site Contact: <u>John Simonetti</u>																											
Field Sampler - Print Name & Signature		Sample Collection		Container		Preservative		Matrix																					
Sample Identification		Date Time		40ml Vial	Poly	Glass	Sleeve	Other	HCL	HNO3	H2SO4	Other	None	Water	Soil	Other	DU BOD	DU pH	200.7 - B, Ca, Mg, Na	Ammonia, Phosphorus	Total Nitrogen	Chloride, EC, NO2, NO3	Alkalinity, Bicarbonate	SAR Adjusted Calculation	Silica	TDS	TSS		
Oak Avenue		4/4/16 08:00			4					1	1			2	X		X	X	X	X	X	X	X	X	X	X	X		
Relinquished by:		Received by:		Date	Time	CDPH Write On EDT Report? Yes <input type="radio"/> No <input type="radio"/>																							
Relinquished by:		Received by:		4/4	12:00	State System Number: _____																							
Relinquished by:		Received by:		4/4	17:20	CA Geotracker EDF Report Yes <input type="radio"/> No <input type="radio"/>																							
Relinquished by:		Received by:		4/4	18:00	Sampling Company Log Code: _____																							
Relinquished by:		Received by:		4/4	21:20	Global ID: _____ EDF to (Email Address): _____																							
Relinquished by:		Received by:		Date	Time	Travel and Site Time:		Mileage:		Misc. Supplies:																			



*Alpha*

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ELAP Certificates 1551, 2728, and 2922

20 April 2016

West Bay Sanitary District

Attn: John Simonetti

500 Laurel Street

Menlo Park, CA 94025

RE: WQ Monitoring

Work Order: 16D0361

Enclosed are the results of analyses for samples received by the laboratory on 04/05/16 22:15. 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:  
04/20/16 10:35

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Oak Avenue	16D0361-01	Water	04/05/16 09:00	04/05/16 22:15



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

Reported:  
04/20/16 10:35

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
<b>Oak Avenue (16D0361-01)</b>								
<b>Sample Type: Water</b>								
<b>Sampled: 04/05/16 09:00</b>								
<b>Metals by EPA 200 Series Methods</b>								
Boron	0.48 mg/L	0.050	1	AD63278	04/14/16 14:02	04/18/16 16:48	EPA 200.7	
Calcium	36 mg/L	1.0	1	AD63278	04/14/16 14:02	04/18/16 16:48	EPA 200.7	
Magnesium	24 mg/L	1.0	1	AD63278	04/14/16 14:02	04/18/16 16:48	EPA 200.7	
Sodium	73 mg/L	1.0	1	AD63278	04/14/16 14:02	04/18/16 16:48	EPA 200.7	
<b>Conventional Chemistry Parameters by APHA/EPA Methods</b>								
Ammonia as NH3	59 mg/L	0.50	1	AD63144	04/12/16 08:00	04/12/16 17:00	SM4500NH3C	
Bicarbonate	390 mg/L	5.0	1	AD62962	04/11/16 09:37	04/11/16 15:37	SM2320B	
Biochemical Oxygen Demand	230 mg/L	5.0	1	AD63127	04/06/16 12:00	04/11/16 13:00	SM5210B	
pH	7.60 pH Units	1.68	1	AD62974	04/05/16 18:30	04/05/16 18:30	SM4500-H+ B	T-14
Specific Conductance (EC)	1100 umhos/cm	20	1	AD63053	04/06/16 17:00	04/06/16 17:00	SM2510B	
Total Dissolved Solids	600 mg/L	10	1	AD63095	04/11/16 11:15	04/13/16 14:30	SM2540C	
Total Suspended Solids	340 mg/L	1.0	1	AD62969	04/06/16 11:13	04/08/16 11:00	SM2540D	
Silica	21 mg/L	2.0	2	AD63052	04/08/16 09:45	04/08/16 12:00	SM4500-SiO2 C	
Bicarbonate Alkalinity as CaCO3	320 mg/L	5.0	1	AD62962	04/11/16 09:37	04/11/16 15:37	SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AD62962	04/11/16 09:37	04/11/16 15:37	SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AD62962	04/11/16 09:37	04/11/16 15:37	SM2320B	
Total Alkalinity as CaCO3	320 mg/L	5.0	1	AD62962	04/11/16 09:37	04/11/16 15:37	SM2320B	
Total Kjeldahl Nitrogen	51 mg/L	1.0	1	AD62975	04/07/16 07:49	04/08/16 10:11	SM4500-Norg B	
Total Nitrogen	51 mg/L	1.0	1	AD62999	04/07/16 08:43	04/12/16 09:47	SM4500-N	
Phosphorus, total	7.0 mg/L	0.80	2	AD63089	04/11/16 08:00	04/11/16 12:48	SM4500-PE	
<b>Miscellaneous Physical/Conventional Chemistry Parameters</b>								
Sodium Adsorption Ratio-Adj RNA	2.65 NA		1	AD63278	04/14/16 14:02	04/20/16 07:29	SAR	

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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:  
04/20/16 10:35

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
<b>Oak Avenue (16D0361-01)</b>		<b>Sample Type: Water</b>			<b>Sampled: 04/05/16 09:00</b>			
<b>Anions by EPA Method 300.0</b>								
<b>Chloride</b>	<b>76 mg/L</b>	<b>12</b>	25	AD62985	04/06/16 23:52	04/06/16 23:52	EPA 300.0	
Nitrate as N	ND mg/L	0.20	1	AD62985	04/07/16 00:08	04/07/16 00:08	EPA 300.0	
Nitrate as NO3	ND mg/L	1.0	1	AD62985	04/07/16 00:08	04/07/16 00:08	EPA 300.0	
Nitrite as N	ND mg/L	0.20	1	AD62985	04/07/16 00:08	04/07/16 00:08	EPA 300.0	
Nitrite as NO2	ND mg/L	1.0	1	AD62985	04/07/16 00:08	04/07/16 00:08	EPA 300.0	



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Menlo Park, CA 94025

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

Reported:  
04/20/16 10:35

### 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
<b>Batch AD63278 - Metals Digest</b>										
<b>Blank (AD63278-BLK1)</b>				Prepared: 04/14/16 Analyzed: 04/18/16						
Boron	ND	0.050	mg/L							
Calcium	ND	1.0	mg/L							
Magnesium	ND	1.0	mg/L							
Sodium	ND	1.0	mg/L							
<b>LCS (AD63278-BS1)</b>				Prepared: 04/14/16 Analyzed: 04/18/16						
Boron	0.387	0.050	mg/L	0.400		96.8	85-115			
Calcium	7.66	1.0	mg/L	8.00		95.8	85-115			
Magnesium	8.13	1.0	mg/L	8.00		102	85-115			
Sodium	7.94	1.0	mg/L	8.00		99.3	85-115			
<b>Duplicate (AD63278-DUP1)</b>				<b>Source: 16D0416-01</b> Prepared: 04/14/16 Analyzed: 04/18/16						
Boron	0.0713	0.050	mg/L		0.0615			14.8	20	
Calcium	13.6	1.0	mg/L		14.1			4.07	20	
Magnesium	8.86	1.0	mg/L		8.72			1.65	20	
Sodium	22.9	1.0	mg/L		23.8			3.65	20	
<b>Matrix Spike (AD63278-MS1)</b>				<b>Source: 16D0416-01</b> Prepared: 04/14/16 Analyzed: 04/18/16						
Boron	0.453	0.050	mg/L	0.400	0.0615	97.9	70-130			
Calcium	22.6	1.0	mg/L	8.00	14.1	106	70-130			
Magnesium	17.5	1.0	mg/L	8.00	8.72	110	70-130			
Sodium	32.4	1.0	mg/L	8.00	23.8	108	70-130			
<b>Matrix Spike (AD63278-MS2)</b>				<b>Source: 16D0464-01</b> Prepared: 04/14/16 Analyzed: 04/18/16						
Boron	1.83	0.050	mg/L	0.400	1.54	71.3	70-130			
Calcium	37.3	1.0	mg/L	8.00	31.2	76.9	70-130			
Magnesium	29.2	1.0	mg/L	8.00	22.8	79.8	70-130			
Sodium	24.8	1.0	mg/L	8.00	17.7	88.4	70-130			

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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:  
04/20/16 10:35

**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
<b>Batch AD63278 - Metals Digest</b>										
<b>Matrix Spike Dup (AD63278-MSD1)</b>	<b>Source: 16D0416-01</b>			Prepared: 04/14/16 Analyzed: 04/18/16						
Boron	0.440	0.050	mg/L	0.400	0.0615	94.6	70-130	3.01	20	
Calcium	21.6	1.0	mg/L	8.00	14.1	93.7	70-130	4.52	20	
Magnesium	17.0	1.0	mg/L	8.00	8.72	103	70-130	3.41	20	
Sodium	31.0	1.0	mg/L	8.00	23.8	90.6	70-130	4.46	20	



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Reported:  
04/20/16 10:35

### 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
<b>Batch AD62962 - General Preparation</b>										
<b>Duplicate (AD62962-DUP1)</b>		<b>Source: 16D0503-03</b>			Prepared & Analyzed: 04/11/16					
Bicarbonate	67.1	5.0	mg/L		65.9			1.83	20	
Total Alkalinity as CaCO <sub>3</sub>	55.0	5.0	mg/L		54.0			1.83	20	
Bicarbonate Alkalinity as CaCO <sub>3</sub>	55.0	5.0	mg/L		54.0			1.83	20	
Carbonate Alkalinity as CaCO <sub>3</sub>	ND	5.0	mg/L		ND				20	
Hydroxide Alkalinity as CaCO <sub>3</sub>	ND	5.0	mg/L		ND				20	
<b>Batch AD62969 - General Preparation</b>										
<b>Blank (AD62969-BLK1)</b>					Prepared: 04/06/16 Analyzed: 04/08/16					
Total Suspended Solids	ND	1.0	mg/L							
<b>Duplicate (AD62969-DUP1)</b>		<b>Source: 16D0202-01</b>			Prepared: 04/06/16 Analyzed: 04/08/16					
Total Suspended Solids	468	1.0	mg/L		490			4.70	30	
<b>Duplicate (AD62969-DUP2)</b>		<b>Source: 16D0361-01</b>			Prepared: 04/06/16 Analyzed: 04/08/16					
Total Suspended Solids	382	1.0	mg/L		335			13.2	30	
<b>Batch AD62974 - General Preparation</b>										
<b>Duplicate (AD62974-DUP1)</b>		<b>Source: 16D0404-01</b>			Prepared & Analyzed: 04/05/16					
pH	8.22	1.68	pH Units		8.17			0.610	20	
<b>Batch AD62975 - General Prep</b>										
<b>LCS (AD62975-BS1)</b>					Prepared: 04/06/16 Analyzed: 04/07/16					
Total Kjeldahl Nitrogen	2.95	1.0	mg/L	2.98		99.0	80-120			

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Menlo Park, CA 94025

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

Reported:  
04/20/16 10:35

### 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
<b>Batch AD62975 - General Prep</b>										
<b>LCS Dup (AD62975-BSD1)</b>				Prepared: 04/06/16 Analyzed: 04/07/16						
Total Kjeldahl Nitrogen	2.95	1.0	mg/L	2.98		99.0	80-120	0.00	20	
<b>Matrix Spike (AD62975-MS1)</b>				Source: 16D0283-01 Prepared: 04/06/16 Analyzed: 04/07/16						
Total Kjeldahl Nitrogen	3.13	1.0	mg/L	2.98	ND	105	75-125			
<b>Matrix Spike Dup (AD62975-MSD1)</b>				Source: 16D0283-01 Prepared: 04/06/16 Analyzed: 04/07/16						
Total Kjeldahl Nitrogen	3.13	1.0	mg/L	2.98	ND	105	75-125	0.00	20	
<b>Batch AD63052 - General Preparation</b>										
<b>Blank (AD63052-BLK1)</b>				Prepared & Analyzed: 04/08/16						
Silica	ND	1.0	mg/L							
<b>LCS (AD63052-BS1)</b>				Prepared & Analyzed: 04/08/16						
Silica	10.3	1.0	mg/L	10.0		103	85-115			
<b>LCS Dup (AD63052-BSD1)</b>				Prepared & Analyzed: 04/08/16						
Silica	10.5	1.0	mg/L	10.0		105	85-115	2.48	20	
<b>Duplicate (AD63052-DUP1)</b>				Source: 16D0361-01 Prepared & Analyzed: 04/08/16						
Silica	20.8	2.0	mg/L		21.3			2.46	20	
<b>Matrix Spike (AD63052-MS1)</b>				Source: 16D0361-01 Prepared & Analyzed: 04/08/16						
Silica	30.2	4.0	mg/L	10.0	21.3	89.4	80-120			
<b>Matrix Spike Dup (AD63052-MSD1)</b>				Source: 16D0361-01 Prepared & Analyzed: 04/08/16						
Silica	29.9	4.0	mg/L	10.0	21.3	86.4	80-120	0.982	20	

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Project Number: Oak Avenue

Reported:  
04/20/16 10:35

### 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
<b>Batch AD63053 - General Preparation</b>										
<b>Duplicate (AD63053-DUP1)</b>		<b>Source: 16D0468-02</b>		Prepared & Analyzed: 04/06/16						
Specific Conductance (EC)	1570	20	umhos/cm		1560			0.192	5	
<b>Batch AD63089 - General Prep</b>										
<b>Blank (AD63089-BLK1)</b>				Prepared & Analyzed: 04/11/16						
Phosphorus, total	ND	0.040	mg/L							
<b>LCS (AD63089-BS1)</b>				Prepared & Analyzed: 04/11/16						
Phosphorus, total	0.200	0.040	mg/L	0.200		99.8	85-115			
<b>Duplicate (AD63089-DUP1)</b>		<b>Source: 16D0370-02</b>		Prepared & Analyzed: 04/11/16						
Phosphorus, total	3.21	0.80	mg/L		3.24			0.831	20	
<b>Matrix Spike (AD63089-MS1)</b>		<b>Source: 16D0370-02</b>		Prepared & Analyzed: 04/11/16						
Phosphorus, total	4.96	0.80	mg/L	2.00	3.24	86.1	70-130			
<b>Matrix Spike (AD63089-MS2)</b>		<b>Source: 16D0372-02</b>		Prepared & Analyzed: 04/11/16						
Phosphorus, total	5.04	0.80	mg/L	2.00	3.51	76.7	70-130			
<b>Matrix Spike Dup (AD63089-MSD1)</b>		<b>Source: 16D0370-02</b>		Prepared & Analyzed: 04/11/16						
Phosphorus, total	4.99	0.80	mg/L	2.00	3.24	87.4	70-130	0.543	20	
<b>Batch AD63095 - General Preparation</b>										
<b>Blank (AD63095-BLK1)</b>				Prepared: 04/11/16 Analyzed: 04/13/16						
Total Dissolved Solids	ND	10	mg/L							

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

Reported:  
04/20/16 10:35

### 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
<b>Batch AD63095 - General Preparation</b>										
<b>Duplicate (AD63095-DUP1)</b>		<b>Source: 16D0361-01</b>		Prepared: 04/11/16 Analyzed: 04/13/16						
Total Dissolved Solids	592	10	mg/L		600			1.34	15	
<b>Duplicate (AD63095-DUP2)</b>		<b>Source: 16D0530-10</b>		Prepared: 04/11/16 Analyzed: 04/13/16						
Total Dissolved Solids	716	10	mg/L		716			0.00	15	
<b>Batch AD63127 - General Preparation</b>										
<b>Blank (AD63127-BLK1)</b>		Prepared: 04/06/16 Analyzed: 04/11/16								
Biochemical Oxygen Demand	ND	5.0	mg/L							
<b>Blank (AD63127-BLK2)</b>		Prepared: 04/06/16 Analyzed: 04/11/16								
Biochemical Oxygen Demand	ND	5.0	mg/L							
<b>LCS (AD63127-BS1)</b>		Prepared: 04/05/16 Analyzed: 04/10/16								
Biochemical Oxygen Demand	220	5.0	mg/L	200		110	84-115			
<b>Duplicate (AD63127-DUP1)</b>		<b>Source: 16D0344-02</b>		Prepared: 04/06/16 Analyzed: 04/11/16						
Biochemical Oxygen Demand	ND	5.0	mg/L		ND				30	
<b>Batch AD63144 - General Preparation</b>										
<b>Blank (AD63144-BLK1)</b>		Prepared & Analyzed: 04/13/16								
Ammonia as NH3	ND	0.50	mg/L							
<b>LCS (AD63144-BS1)</b>		Prepared & Analyzed: 04/13/16								
Ammonia as NH3	5.75	0.50	mg/L	6.10		94.2	90-110			

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Project Number: Oak Avenue

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04/20/16 10:35

### 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
<b>Batch AD63144 - General Preparation</b>										
<b>LCS Dup (AD63144-BSD1)</b>				Prepared & Analyzed: 04/13/16						
Ammonia as NH3	6.07	0.50	mg/L	6.10		99.5	90-110	5.40	10	
<b>Matrix Spike (AD63144-MS1)</b>				Source: 16D0419-02 Prepared & Analyzed: 04/13/16						
Ammonia as NH3	6.07	0.50	mg/L	6.10	ND	99.5	85-115			
<b>Matrix Spike Dup (AD63144-MSD1)</b>				Source: 16D0419-02 Prepared & Analyzed: 04/13/16						
Ammonia as NH3	5.96	0.50	mg/L	6.10	ND	97.7	85-115	1.76	20	





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04/20/16 10:35

### 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
<b>Batch AD62985 - General Preparation</b>										
<b>Blank (AD62985-BLK1)</b>				Prepared & Analyzed: 04/06/16						
Nitrite as NO2	ND	1.0	mg/L							
Nitrate as N	ND	0.20	mg/L							
Nitrate as NO3	ND	1.0	mg/L							
Chloride	ND	0.50	mg/L							
Nitrite as N	ND	0.20	mg/L							
<b>LCS (AD62985-BS1)</b>				Prepared & Analyzed: 04/06/16						
Nitrate as NO3	23	1.0	mg/L	22.2		103	90-110			
Chloride	10.3	0.50	mg/L	10.0		103	90-110			
Nitrite as N	4.86	0.20	mg/L	5.00		97.2	90-110			
Nitrate as N	5.18	0.20	mg/L	5.00		104	90-110			
Nitrite as NO2	16.0	1.0	mg/L	16.4		97.5	90-110			
<b>Duplicate (AD62985-DUP1)</b>				<b>Source: 16D0373-01</b>			Prepared & Analyzed: 04/07/16			
Nitrate as NO3	4.1	1.0	mg/L		4.2			1.36	20	
Nitrite as N	ND	0.20	mg/L		ND				20	
Nitrite as NO2	ND	1.0	mg/L		ND				20	
Chloride	33.4	2.5	mg/L		32.4			3.20	20	
Nitrate as N	0.925	0.20	mg/L		0.937			1.36	20	
<b>Matrix Spike (AD62985-MS1)</b>				<b>Source: 16D0373-01</b>			Prepared & Analyzed: 04/07/16			
Nitrite as N	5.27	1.0	mg/L	5.56	ND	94.8	80-120			
Chloride	45.0	2.5	mg/L	11.1	32.4	114	80-120			
Nitrate as NO3	29	5.0	mg/L	24.7	ND	101	80-120			
Nitrate as N	6.53	1.0	mg/L	5.56	ND	101	80-120			
Nitrite as NO2	17.3	5.0	mg/L	18.2	ND	95.1	80-120			
<b>Matrix Spike (AD62985-MS2)</b>				<b>Source: 16D0316-04</b>			Prepared & Analyzed: 04/07/16			
Chloride	17.0	2.5	mg/L	11.1	6.13	97.6	80-120			
Nitrite as N	4.97	1.0	mg/L	5.56	ND	89.4	80-120			
Nitrate as N	5.56	1.0	mg/L	5.56	ND	100	80-120			
Nitrite as NO2	16.3	5.0	mg/L	18.2	ND	89.7	80-120			
Nitrate as NO3	25	5.0	mg/L	24.7	ND	99.9	80-120			

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Reported:  
04/20/16 10:35

**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 AD62985 - General Preparation**

**Matrix Spike Dup (AD62985-MSD1)**

**Source: 16D0373-01**

Prepared & Analyzed: 04/07/16

Chloride	45.1	2.5	mg/L	11.1	32.4	115	80-120	0.234	20	
Nitrate as NO3	29	5.0	mg/L	24.7	ND	101	80-120	0.612	20	
Nitrate as N	6.57	1.0	mg/L	5.56	ND	101	80-120	0.612	20	
Nitrite as NO2	17.4	5.0	mg/L	18.2	ND	95.6	80-120	0.528	20	
Nitrite as N	5.29	1.0	mg/L	5.56	ND	95.3	80-120	0.526	20	



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04/20/16 10:35

#### Notes and Definitions

- 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





*Alpha*

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ELAP Certificates 1551, 2728, and 2922

21 April 2016

West Bay Sanitary District

Attn: John Simonetti

500 Laurel Street

Menlo Park, CA 94025

RE: WQ Monitoring

Work Order: 16D0565

Enclosed are the results of analyses for samples received by the laboratory on 04/06/16 21:45. 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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Project Manager: John Simonetti  
Project: WQ Monitoring  
Project Number: Oak Avenue

Reported:  
04/21/16 11:48

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Oak Avenue	16D0565-01	Water	04/06/16 09:00	04/06/16 21:45



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Project Number: Oak Avenue

Reported:  
04/21/16 11:48

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
<b>Oak Avenue (16D0565-01)</b>								
<b>Sample Type: Water</b>								
<b>Sampled: 04/06/16 09:00</b>								
<b>Metals by EPA 200 Series Methods</b>								
Boron	0.26 mg/L	0.050	1	AD63279	04/14/16 14:11	04/18/16 19:33	EPA 200.7	
Calcium	35 mg/L	1.0	1	AD63279	04/14/16 14:11	04/18/16 19:33	EPA 200.7	
Magnesium	17 mg/L	1.0	1	AD63279	04/14/16 14:11	04/18/16 19:33	EPA 200.7	
Sodium	70 mg/L	1.0	1	AD63279	04/14/16 14:11	04/18/16 19:33	EPA 200.7	
<b>Conventional Chemistry Parameters by APHA/EPA Methods</b>								
Ammonia as NH3	46 mg/L	0.50	1	AD63329	04/18/16 08:13	04/18/16 08:45	SM4500NH3C	
Bicarbonate	370 mg/L	5.0	1	AD63024	04/12/16 12:00	04/12/16 15:19	SM2320B	
Biochemical Oxygen Demand	340 mg/L	5.0	1	AD63127	04/06/16 17:30	04/11/16 13:00	SM5210B	
pH	7.44 pH Units	1.68	1	AD63018	04/06/16 18:30	04/06/16 18:30	SM4500-H+ B	T-14
Specific Conductance (EC)	990 umhos/cm	20	1	AD63054	04/07/16 17:00	04/07/16 17:00	SM2510B	
Total Dissolved Solids	460 mg/L	10	1	AD63143	04/12/16 09:45	04/14/16 09:30	SM2540C	
Total Suspended Solids	210 mg/L	1.0	1	AD63123	04/11/16 13:10	04/12/16 15:00	SM2540D	
Silica	20 mg/L	2.0	2	AD63052	04/08/16 09:45	04/08/16 12:00	SM4500-SiO2 C	
Bicarbonate Alkalinity as CaCO3	300 mg/L	5.0	1	AD63024	04/12/16 12:00	04/12/16 15:19	SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AD63024	04/12/16 12:00	04/12/16 15:19	SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AD63024	04/12/16 12:00	04/12/16 15:19	SM2320B	
Total Alkalinity as CaCO3	300 mg/L	5.0	1	AD63024	04/12/16 12:00	04/12/16 15:19	SM2320B	
Total Kjeldahl Nitrogen	53 mg/L	1.0	1	AD63043	04/11/16 06:20	04/12/16 10:42	SM4500-Norg B	
Total Nitrogen	53 mg/L	1.0	1	AD63158	04/12/16 09:50	04/13/16 16:58	SM4500-N	
Phosphorus, total	8.3 mg/L	2.0	5	AD63138	04/12/16 06:35	04/12/16 13:50	SM4500-PE	
<b>Miscellaneous Physical/Conventional Chemistry Parameters</b>								
Sodium Adsorption Ratio-Adj RNA	2.85 NA		1	AD63279	04/14/16 14:11	04/21/16 05:39	SAR	

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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:  
04/21/16 11:48

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
<b>Oak Avenue (16D0565-01)</b>								
				<b>Sample Type: Water</b>		<b>Sampled: 04/06/16 09:00</b>		
<b>Anions by EPA Method 300.0</b>								
<b>Chloride</b>	<b>63 mg/L</b>	<b>10</b>	20	AD63037	04/08/16 00:30	04/08/16 00:30	EPA 300.0	
Nitrate as N	ND mg/L	0.20	1	AD63037	04/08/16 00:30	04/08/16 00:30	EPA 300.0	
Nitrate as NO3	ND mg/L	1.0	1	AD63037	04/08/16 00:30	04/08/16 00:30	EPA 300.0	
Nitrite as N	ND mg/L	0.20	1	AD63037	04/08/16 00:30	04/08/16 00:30	EPA 300.0	
Nitrite as NO2	ND mg/L	1.0	1	AD63037	04/08/16 00:30	04/08/16 00:30	EPA 300.0	





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04/21/16 11:48

### 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
<b>Batch AD63279 - Metals Digest</b>										
<b>Blank (AD63279-BLK1)</b>				Prepared: 04/14/16 Analyzed: 04/18/16						
Boron	ND	0.050	mg/L							
Calcium	ND	1.0	mg/L							
Magnesium	ND	1.0	mg/L							
Sodium	ND	1.0	mg/L							
<b>LCS (AD63279-BS1)</b>				Prepared: 04/14/16 Analyzed: 04/18/16						
Boron	0.371	0.050	mg/L	0.400		92.7	85-115			
Calcium	6.88	1.0	mg/L	8.00		86.0	85-115			
Magnesium	7.34	1.0	mg/L	8.00		91.7	85-115			
Sodium	7.58	1.0	mg/L	8.00		94.8	85-115			
<b>Duplicate (AD63279-DUP1)</b>				<b>Source: 16D0530-10</b>			Prepared: 04/14/16 Analyzed: 04/18/16			
Boron	0.215	0.050	mg/L		0.203			5.71	20	
Calcium	31.7	1.0	mg/L		31.1			2.14	20	
Magnesium	19.9	1.0	mg/L		18.3			8.15	20	
Sodium	165	1.0	mg/L		159			3.90	20	
<b>Matrix Spike (AD63279-MS1)</b>				<b>Source: 16D0530-10</b>			Prepared: 04/14/16 Analyzed: 04/18/16			
Boron	0.556	0.050	mg/L	0.400	0.203	88.2	70-130			
Calcium	38.3	1.0	mg/L	8.00	31.1	90.0	70-130			
Magnesium	27.5	1.0	mg/L	8.00	18.3	115	70-130			
Sodium	165	1.0	mg/L	8.00	159	79.8	70-130			
<b>Matrix Spike (AD63279-MS2)</b>				<b>Source: 16D0561-01</b>			Prepared: 04/14/16 Analyzed: 04/18/16			
Boron	0.643	0.050	mg/L	0.400	0.296	86.8	70-130			
Calcium	8.85	1.0	mg/L	8.00	1.77	88.5	70-130			
Magnesium	8.74	1.0	mg/L	8.00	1.07	95.9	70-130			
Sodium	577	1.0	mg/L	8.00	572	66.0	70-130			QM-4X

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Project: WQ Monitoring  
Project Number: Oak Avenue

Reported:  
04/21/16 11:48

**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
<b>Batch AD63279 - Metals Digest</b>										
<b>Matrix Spike Dup (AD63279-MSD1)</b>	<b>Source: 16D0530-10</b>			Prepared: 04/14/16 Analyzed: 04/18/16						
Boron	0.539	0.050	mg/L	0.400	0.203	83.8	70-130	3.18	20	
Calcium	36.4	1.0	mg/L	8.00	31.1	66.9	70-130	4.96	20	QM-01
Magnesium	26.4	1.0	mg/L	8.00	18.3	101	70-130	4.20	20	
Sodium	158	1.0	mg/L	8.00	159	NR	70-130	4.45	20	QM-4X



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Project: WQ Monitoring  
Project Number: Oak Avenue

Reported:  
04/21/16 11:48

### 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
<b>Batch AD63018 - General Preparation</b>										
<b>Duplicate (AD63018-DUP1)</b>		<b>Source: 16D0565-01</b>			Prepared & Analyzed: 04/06/16					
pH	7.52	1.68	pH Units		7.44			1.07	20	
<b>Batch AD63024 - General Preparation</b>										
<b>Duplicate (AD63024-DUP1)</b>		<b>Source: 16D0416-01</b>			Prepared & Analyzed: 04/12/16					
Bicarbonate	80.8	5.0	mg/L		80.5			0.372	20	
Bicarbonate Alkalinity as CaCO <sub>3</sub>	66.0	5.0	mg/L		66.0			0.00	20	
Total Alkalinity as CaCO <sub>3</sub>	66.0	5.0	mg/L		66.0			0.00	20	
Carbonate Alkalinity as CaCO <sub>3</sub>	ND	5.0	mg/L		ND				20	
Hydroxide Alkalinity as CaCO <sub>3</sub>	ND	5.0	mg/L		ND				20	
<b>Batch AD63043 - General Prep</b>										
<b>LCS (AD63043-BS1)</b>					Prepared: 04/08/16 Analyzed: 04/11/16					
Total Kjeldahl Nitrogen	3.13	1.0	mg/L	2.98		105	80-120			
<b>LCS Dup (AD63043-BSD1)</b>					Prepared: 04/08/16 Analyzed: 04/11/16					
Total Kjeldahl Nitrogen	3.04	1.0	mg/L	2.98		102	80-120	2.98	20	
<b>Matrix Spike (AD63043-MS1)</b>		<b>Source: 16D0468-01</b>			Prepared: 04/08/16 Analyzed: 04/11/16					
Total Kjeldahl Nitrogen	3.23	1.0	mg/L	2.98	ND	89.5	75-125			
<b>Matrix Spike Dup (AD63043-MSD1)</b>		<b>Source: 16D0468-01</b>			Prepared: 04/08/16 Analyzed: 04/11/16					
Total Kjeldahl Nitrogen	3.23	1.0	mg/L	2.98	ND	89.5	75-125	0.00	20	

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

Reported:  
04/21/16 11:48

### 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
<b>Batch AD63052 - General Preparation</b>										
<b>Blank (AD63052-BLK1)</b> Prepared & Analyzed: 04/08/16										
Silica	ND	1.0	mg/L							
<b>LCS (AD63052-BS1)</b> Prepared & Analyzed: 04/08/16										
Silica	10.3	1.0	mg/L	10.0		103	85-115			
<b>LCS Dup (AD63052-BSD1)</b> Prepared & Analyzed: 04/08/16										
Silica	10.5	1.0	mg/L	10.0		105	85-115	2.48	20	
<b>Duplicate (AD63052-DUP1)</b> Source: 16D0361-01 Prepared & Analyzed: 04/08/16										
Silica	20.8	2.0	mg/L		21.3			2.46	20	
<b>Matrix Spike (AD63052-MS1)</b> Source: 16D0361-01 Prepared & Analyzed: 04/08/16										
Silica	30.2	4.0	mg/L	10.0	21.3	89.4	80-120			
<b>Matrix Spike Dup (AD63052-MSD1)</b> Source: 16D0361-01 Prepared & Analyzed: 04/08/16										
Silica	29.9	4.0	mg/L	10.0	21.3	86.4	80-120	0.982	20	
<b>Batch AD63054 - General Preparation</b>										
<b>Duplicate (AD63054-DUP1)</b> Source: 16D0464-01 Prepared & Analyzed: 04/07/16										
Specific Conductance (EC)	373	20	umhos/cm		373			0.00	5	
<b>Batch AD63123 - General Preparation</b>										
<b>Blank (AD63123-BLK1)</b> Prepared: 04/11/16 Analyzed: 04/12/16										
Total Suspended Solids	ND	1.0	mg/L							

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Project Number: Oak Avenue

Reported:  
04/21/16 11:48

### 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
<b>Batch AD63123 - General Preparation</b>										
<b>Duplicate (AD63123-DUP1)</b>		<b>Source: 16D0487-01</b>		Prepared: 04/11/16 Analyzed: 04/12/16						
Total Suspended Solids	144	1.0	mg/L		149			2.92	30	
<b>Duplicate (AD63123-DUP2)</b>		<b>Source: 16D0488-02</b>		Prepared: 04/11/16 Analyzed: 04/12/16						
Total Suspended Solids	114	1.0	mg/L		102			10.4	30	
<b>Batch AD63127 - General Preparation</b>										
<b>Blank (AD63127-BLK1)</b>				Prepared: 04/06/16 Analyzed: 04/11/16						
Biochemical Oxygen Demand	ND	5.0	mg/L							
<b>Blank (AD63127-BLK2)</b>				Prepared: 04/06/16 Analyzed: 04/11/16						
Biochemical Oxygen Demand	ND	5.0	mg/L							
<b>LCS (AD63127-BS1)</b>				Prepared: 04/05/16 Analyzed: 04/10/16						
Biochemical Oxygen Demand	220	5.0	mg/L	200		110	84-115			
<b>Duplicate (AD63127-DUP1)</b>		<b>Source: 16D0344-02</b>		Prepared: 04/06/16 Analyzed: 04/11/16						
Biochemical Oxygen Demand	ND	5.0	mg/L		ND				30	
<b>Batch AD63138 - General Prep</b>										
<b>Blank (AD63138-BLK1)</b>				Prepared & Analyzed: 04/12/16						
Phosphorus, total	ND	0.040	mg/L							
<b>LCS (AD63138-BS1)</b>				Prepared & Analyzed: 04/12/16						
Phosphorus, total	0.194	0.040	mg/L	0.200		97.1	85-115			

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Project: WQ Monitoring  
Project Number: Oak Avenue

Reported:  
04/21/16 11:48

### 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
<b>Batch AD63138 - General Prep</b>										
<b>Duplicate (AD63138-DUP1)</b>		<b>Source: 16D0544-01</b>		Prepared & Analyzed: 04/12/16						
Phosphorus, total	0.0579	0.040	mg/L		0.0553			4.68	20	
<b>Matrix Spike (AD63138-MS1)</b>		<b>Source: 16D0544-01</b>		Prepared & Analyzed: 04/12/16						
Phosphorus, total	0.238	0.040	mg/L	0.200	0.0553	91.3	70-130			
<b>Matrix Spike (AD63138-MS2)</b>		<b>Source: 16D0675-01</b>		Prepared & Analyzed: 04/12/16						
Phosphorus, total	5.61	0.80	mg/L	2.00	4.02	79.4	70-130			
<b>Matrix Spike Dup (AD63138-MSD1)</b>		<b>Source: 16D0544-01</b>		Prepared & Analyzed: 04/12/16						
Phosphorus, total	0.239	0.040	mg/L	0.200	0.0553	92.0	70-130	0.553	20	
<b>Batch AD63143 - General Preparation</b>										
<b>Blank (AD63143-BLK1)</b>				Prepared: 04/12/16 Analyzed: 04/14/16						
Total Dissolved Solids	ND	10	mg/L							
<b>Duplicate (AD63143-DUP1)</b>		<b>Source: 16D0468-02</b>		Prepared: 04/12/16 Analyzed: 04/14/16						
Total Dissolved Solids	948	10	mg/L		988			4.13	15	
<b>Duplicate (AD63143-DUP2)</b>		<b>Source: 16D0468-04</b>		Prepared: 04/12/16 Analyzed: 04/14/16						
Total Dissolved Solids	1020	10	mg/L		1180			14.6	15	
<b>Batch AD63329 - General Preparation</b>										
<b>Blank (AD63329-BLK1)</b>				Prepared & Analyzed: 04/18/16						
Ammonia as NH3	ND	0.50	mg/L							

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

Reported:  
04/21/16 11:48

### 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
<b>Batch AD63329 - General Preparation</b>										
<b>Blank (AD63329-BLK2)</b>				Prepared & Analyzed: 04/18/16						
Ammonia as NH3	ND	0.50	mg/L							
<b>LCS (AD63329-BS1)</b>				Prepared & Analyzed: 04/18/16						
Ammonia as NH3	5.96	0.50	mg/L	6.10		97.7	90-110			
<b>LCS Dup (AD63329-BSD1)</b>				Prepared & Analyzed: 04/18/16						
Ammonia as NH3	6.07	0.50	mg/L	6.10		99.5	90-110	1.76	10	
<b>Matrix Spike (AD63329-MS1)</b>				Source: 16D0632-02 Prepared & Analyzed: 04/19/16						
Ammonia as NH3	5.75	0.50	mg/L	6.10	ND	94.2	85-115			
<b>Matrix Spike Dup (AD63329-MSD1)</b>				Source: 16D0632-02 Prepared & Analyzed: 04/19/16						
Ammonia as NH3	5.96	0.50	mg/L	6.10	ND	97.7	85-115	3.64	20	



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Project Number: Oak Avenue

Reported:  
04/21/16 11:48

**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 AD63037 - General Preparation**

**Blank (AD63037-BLK1)**

Prepared & Analyzed: 04/07/16

Chloride	ND	0.50	mg/L							
Nitrite as NO2	ND	1.0	mg/L							
Nitrate as NO3	ND	1.0	mg/L							
Nitrate as N	ND	0.20	mg/L							
Nitrite as N	ND	0.20	mg/L							

**LCS (AD63037-BS1)**

Prepared & Analyzed: 04/07/16

Chloride	10.3	0.50	mg/L	10.0		103	90-110			
Nitrite as NO2	15.8	1.0	mg/L	16.4		96.5	90-110			
Nitrate as NO3	23	1.0	mg/L	22.2		104	90-110			
Nitrate as N	5.19	0.20	mg/L	5.00		104	90-110			
Nitrite as N	4.81	0.20	mg/L	5.00		96.2	90-110			

**Duplicate (AD63037-DUP1)**

Source: 16D0468-05

Prepared & Analyzed: 04/10/16

Nitrate as NO3	ND	1.0	mg/L		ND				20	
Chloride	4.38	0.50	mg/L		4.34			0.802	20	
Nitrate as N	ND	0.20	mg/L		ND				20	
Nitrite as NO2	ND	1.0	mg/L		ND				20	
Nitrite as N	ND	0.20	mg/L		ND				20	

**Matrix Spike (AD63037-MS1)**

Source: 16D0468-05

Prepared & Analyzed: 04/10/16

Chloride	15.9	0.50	mg/L	11.1	4.34	104	80-120			
Nitrate as NO3	26	1.0	mg/L	24.7	ND	106	80-120			
Nitrate as N	5.89	0.20	mg/L	5.56	ND	106	80-120			
Nitrite as N	5.95	0.20	mg/L	5.56	ND	107	80-120			
Nitrite as NO2	19.6	1.0	mg/L	18.2	ND	108	80-120			

**Matrix Spike (AD63037-MS2)**

Source: 16D0510-02

Prepared & Analyzed: 04/10/16

Chloride	14.9	0.50	mg/L	11.1	3.03	106	80-120			
Nitrate as NO3	27	1.0	mg/L	24.7	1.0	107	80-120			
Nitrate as N	6.20	0.20	mg/L	5.56	0.228	107	80-120			
Nitrite as NO2	19.3	1.0	mg/L	18.2	ND	106	80-120			
Nitrite as N	5.85	0.20	mg/L	5.56	ND	105	80-120			

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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:  
04/21/16 11:48

**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 AD63037 - General Preparation**

**Matrix Spike Dup (AD63037-MSD1)**

**Source: 16D0468-05**

Prepared & Analyzed: 04/10/16

Chloride	16.2	0.50	mg/L	11.1	4.34	106	80-120	1.34	20	
Nitrate as NO3	26	1.0	mg/L	24.7	ND	107	80-120	1.32	20	
Nitrite as NO2	19.8	1.0	mg/L	18.2	ND	108	80-120	0.910	20	
Nitrite as N	6.01	0.20	mg/L	5.56	ND	108	80-120	0.910	20	
Nitrate as N	5.97	0.20	mg/L	5.56	ND	107	80-120	1.32	20	



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04/21/16 11:48

#### 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-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





*Alpha*

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ELAP Certificates 1551, 2728, and 2922

27 April 2016

West Bay Sanitary District

Attn: John Simonetti

500 Laurel Street

Menlo Park, CA 94025

RE: WQ Monitoring

Work Order: 16D0794

Enclosed are the results of analyses for samples received by the laboratory on 04/11/16 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:  
04/27/16 15:52

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Oak Avenue	16D0794-01	Water	04/08/16 09:00	04/11/16 21:15



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Project: WQ Monitoring  
Project Number: Oak Avenue

Reported:  
04/27/16 15:52

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
<b>Oak Avenue (16D0794-01)</b>		<b>Sample Type: Water</b>			<b>Sampled: 04/08/16 09:00</b>			
<b>Metals by EPA 200 Series Methods</b>								
Boron	0.29 mg/L	0.050	1	AD63405	04/19/16 14:08	04/26/16 13:33	EPA 200.7	
Calcium	40 mg/L	1.0	1	AD63405	04/19/16 14:08	04/26/16 13:33	EPA 200.7	
Magnesium	17 mg/L	1.0	1	AD63405	04/19/16 14:08	04/26/16 13:33	EPA 200.7	
Sodium	91 mg/L	1.0	1	AD63405	04/19/16 14:08	04/26/16 13:33	EPA 200.7	
<b>Conventional Chemistry Parameters by APHA/EPA Methods</b>								
Ammonia as NH3	63 mg/L	0.50	1	AD63386	04/19/16 08:43	04/19/16 10:50	SM4500NH3C	
Bicarbonate	390 mg/L	5.0	1	AD63111	04/13/16 08:00	04/13/16 17:00	SM2320B	
Biochemical Oxygen Demand	270 mg/L	5.0	1	AD63227	04/08/16 17:30	04/13/16 13:00	SM5210B	
pH	7.46 pH Units	1.68	1	AD63164	04/11/16 18:00	04/11/16 18:00	SM4500-H+ B	T-14
Specific Conductance (EC)	1100 umhos/cm	20	1	AD63192	04/12/16 17:00	04/12/16 17:00	SM2510B	
Total Dissolved Solids	470 mg/L	10	1	AD63243	04/14/16 09:45	04/18/16 12:00	SM2540C	
Total Suspended Solids	560 mg/L	1.0	1	AD63171	04/12/16 14:00	04/13/16 11:00	SM2540D	
Silica	20 mg/L	2.0	2	AD63291	04/20/16 11:30	04/20/16 16:00	SM4500-SiO2 C	
Bicarbonate Alkalinity as CaCO3	320 mg/L	5.0	1	AD63111	04/13/16 08:00	04/13/16 17:00	SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AD63111	04/13/16 08:00	04/13/16 17:00	SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AD63111	04/13/16 08:00	04/13/16 17:00	SM2320B	
Total Alkalinity as CaCO3	320 mg/L	5.0	1	AD63111	04/13/16 08:00	04/13/16 17:00	SM2320B	
Total Kjeldahl Nitrogen	73 mg/L	1.0	1	AD63090	04/13/16 06:08	04/14/16 10:04	SM4500-Norg B	
Total Nitrogen	73 mg/L	1.0	1	AD63202	04/13/16 10:05	04/21/16 16:16	SM4500-N	
Phosphorus, total	12 mg/L	2.0	5	AD63138	04/12/16 06:35	04/12/16 13:50	SM4500-PE	
<b>Miscellaneous Physical/Conventional Chemistry Parameters</b>								
Sodium Adsorption Ratio-Adj RNA	3.69 NA		1	AD63405	04/19/16 14:08	04/27/16 11:21	SAR	

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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:  
04/27/16 15:52

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
<b>Oak Avenue (16D0794-01)</b>								
				<b>Sample Type: Water</b>		<b>Sampled: 04/08/16 09:00</b>		
<b>Anions by EPA Method 300.0</b>								
<b>Chloride</b>	<b>110 mg/L</b>		<b>12</b>	25	AD63154 04/12/16 12:04	04/12/16 12:04	EPA 300.0	
Nitrate as N	ND mg/L	0.20	1	1	AD63154 04/12/16 12:20	04/12/16 12:20	EPA 300.0	T-17
Nitrate as NO3	ND mg/L	1.0	1	1	AD63154 04/12/16 12:20	04/12/16 12:20	EPA 300.0	T-17
Nitrite as N	ND mg/L	0.20	1	1	AD63154 04/12/16 12:20	04/12/16 12:20	EPA 300.0	T-17
Nitrite as NO2	ND mg/L	1.0	1	1	AD63154 04/12/16 12:20	04/12/16 12:20	EPA 300.0	T-17



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Reported:  
04/27/16 15:52

### 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
<b>Batch AD63405 - Metals Digest</b>										
<b>Blank (AD63405-BLK1)</b>				Prepared: 04/19/16 Analyzed: 04/21/16						
Boron	ND	0.050	mg/L							
Calcium	ND	1.0	mg/L							
Magnesium	ND	1.0	mg/L							
Sodium	ND	1.0	mg/L							
<b>LCS (AD63405-BS1)</b>				Prepared: 04/19/16 Analyzed: 04/21/16						
Boron	0.410	0.050	mg/L	0.400		103	85-115			
Calcium	7.25	1.0	mg/L	8.00		90.6	85-115			
Magnesium	7.19	1.0	mg/L	8.00		89.9	85-115			
Sodium	7.51	1.0	mg/L	8.00		93.9	85-115			
<b>Duplicate (AD63405-DUP1)</b>				<b>Source: 16D0899-02</b> Prepared: 04/19/16 Analyzed: 04/21/16						
Boron	0.213	0.050	mg/L		0.204			4.15	20	
Calcium	24.2	1.0	mg/L		24.4			0.580	20	
Magnesium	1.44	1.0	mg/L		1.39			3.51	20	
Sodium	329	1.0	mg/L		346			5.13	20	
<b>Matrix Spike (AD63405-MS1)</b>				<b>Source: 16D0899-02</b> Prepared: 04/19/16 Analyzed: 04/21/16						
Boron	0.606	0.050	mg/L	0.400	0.204	100	70-130			
Calcium	32.1	1.0	mg/L	8.00	24.4	96.6	70-130			
Magnesium	8.94	1.0	mg/L	8.00	1.39	94.4	70-130			
Sodium	336	1.0	mg/L	8.00	346	NR	70-130			QM-4X
<b>Matrix Spike (AD63405-MS2)</b>				<b>Source: 16D0791-02</b> Prepared: 04/19/16 Analyzed: 04/21/16						
Boron	0.403	0.050	mg/L	0.400	ND	101	70-130			
Calcium	8.04	1.0	mg/L	8.00	ND	95.9	70-130			
Magnesium	7.72	1.0	mg/L	8.00	ND	95.6	70-130			
Sodium	7.99	1.0	mg/L	8.00	ND	98.0	70-130			

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Menlo Park, CA 94025

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

Reported:  
04/27/16 15:52

**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
<b>Batch AD63405 - Metals Digest</b>										
<b>Matrix Spike Dup (AD63405-MSD1)</b>	<b>Source: 16D0899-02</b> Prepared: 04/19/16 Analyzed: 04/21/16									
Boron	0.570	0.050	mg/L	0.400	0.204	91.6	70-130	6.01	20	
Calcium	32.5	1.0	mg/L	8.00	24.4	102	70-130	1.28	20	
Magnesium	8.54	1.0	mg/L	8.00	1.39	89.4	70-130	4.55	20	
Sodium	347	1.0	mg/L	8.00	346	3.12	70-130	3.10	20	QM-4X



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

Reported:  
04/27/16 15:52

### 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
<b>Batch AD63090 - General Prep</b>										
<b>LCS (AD63090-BS1)</b>				Prepared: 04/11/16 Analyzed: 04/12/16						
Total Kjeldahl Nitrogen	3.04	1.0	mg/L	2.98		102	80-120			
<b>LCS Dup (AD63090-BSD1)</b>				Prepared: 04/11/16 Analyzed: 04/12/16						
Total Kjeldahl Nitrogen	3.04	1.0	mg/L	2.98		102	80-120	0.00	20	
<b>Matrix Spike (AD63090-MS1)</b>				<b>Source: 16D0632-01</b> Prepared & Analyzed: 04/12/16						
Total Kjeldahl Nitrogen	3.04	1.0	mg/L	2.98	ND	102	75-125			
<b>Matrix Spike Dup (AD63090-MSD1)</b>				<b>Source: 16D0632-01</b> Prepared & Analyzed: 04/12/16						
Total Kjeldahl Nitrogen	3.04	1.0	mg/L	2.98	ND	102	75-125	0.00	20	
<b>Batch AD63111 - General Preparation</b>										
<b>Duplicate (AD63111-DUP1)</b>				<b>Source: 16D0865-01</b> Prepared & Analyzed: 04/13/16						
Bicarbonate	26.8	5.0	mg/L		26.8			0.00	20	
Total Alkalinity as CaCO3	22.0	5.0	mg/L		22.0			0.00	20	
Carbonate Alkalinity as CaCO3	ND	5.0	mg/L		ND				20	
Bicarbonate Alkalinity as CaCO3	22.0	5.0	mg/L		22.0			0.00	20	
Hydroxide Alkalinity as CaCO3	ND	5.0	mg/L		ND				20	
<b>Batch AD63138 - General Prep</b>										
<b>Blank (AD63138-BLK1)</b>				Prepared & Analyzed: 04/12/16						
Phosphorus, total	ND	0.040	mg/L							
<b>LCS (AD63138-BS1)</b>				Prepared & Analyzed: 04/12/16						
Phosphorus, total	0.194	0.040	mg/L	0.200		97.1	85-115			

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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:  
04/27/16 15:52

### 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
<b>Batch AD63138 - General Prep</b>										
<b>Duplicate (AD63138-DUP1)</b>		<b>Source: 16D0544-01</b>		Prepared & Analyzed: 04/12/16						
Phosphorus, total	0.0579	0.040	mg/L		0.0553			4.68	20	
<b>Matrix Spike (AD63138-MS1)</b>		<b>Source: 16D0544-01</b>		Prepared & Analyzed: 04/12/16						
Phosphorus, total	0.238	0.040	mg/L	0.200	0.0553	91.3	70-130			
<b>Matrix Spike (AD63138-MS2)</b>		<b>Source: 16D0675-01</b>		Prepared & Analyzed: 04/12/16						
Phosphorus, total	5.61	0.80	mg/L	2.00	4.02	79.4	70-130			
<b>Matrix Spike Dup (AD63138-MSD1)</b>		<b>Source: 16D0544-01</b>		Prepared & Analyzed: 04/12/16						
Phosphorus, total	0.239	0.040	mg/L	0.200	0.0553	92.0	70-130	0.553	20	
<b>Batch AD63164 - General Preparation</b>										
<b>Duplicate (AD63164-DUP1)</b>		<b>Source: 16D0794-01</b>		Prepared & Analyzed: 04/11/16						
pH	7.43	1.68	pH Units		7.46			0.403	20	
<b>Batch AD63171 - General Preparation</b>										
<b>Blank (AD63171-BLK1)</b>				Prepared: 04/12/16 Analyzed: 04/13/16						
Total Suspended Solids	ND	1.0	mg/L							
<b>Duplicate (AD63171-DUP1)</b>		<b>Source: 16D0662-01</b>		Prepared: 04/12/16 Analyzed: 04/13/16						
Total Suspended Solids	506	1.0	mg/L		502			0.794	30	
<b>Duplicate (AD63171-DUP2)</b>		<b>Source: 16D0671-01</b>		Prepared: 04/12/16 Analyzed: 04/13/16						
Total Suspended Solids	395	1.0	mg/L		398			0.839	30	

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

Reported:  
04/27/16 15:52

### 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
<b>Batch AD63192 - General Preparation</b>										
<b>Duplicate (AD63192-DUP1)</b>		<b>Source: 16D0977-01</b>		Prepared & Analyzed: 04/12/16						
Specific Conductance (EC)	153	20	umhos/cm		152			0.656	5	
<b>Batch AD63227 - General Preparation</b>										
<b>Blank (AD63227-BLK1)</b>				Prepared: 04/08/16 Analyzed: 04/13/16						
Biochemical Oxygen Demand	ND	5.0	mg/L							
<b>Blank (AD63227-BLK2)</b>				Prepared: 04/08/16 Analyzed: 04/13/16						
Biochemical Oxygen Demand	ND	5.0	mg/L							
<b>LCS (AD63227-BS1)</b>				Prepared: 04/05/16 Analyzed: 04/10/16						
Biochemical Oxygen Demand	220	5.0	mg/L	200		110	84-115			
<b>Duplicate (AD63227-DUP1)</b>		<b>Source: 16D0654-01</b>		Prepared: 04/08/16 Analyzed: 04/13/16						
Biochemical Oxygen Demand	ND	5.0	mg/L		ND				30	
<b>Batch AD63243 - General Preparation</b>										
<b>Blank (AD63243-BLK1)</b>				Prepared: 04/14/16 Analyzed: 04/18/16						
Total Dissolved Solids	ND	10	mg/L							
<b>Duplicate (AD63243-DUP1)</b>		<b>Source: 16D0912-01</b>		Prepared: 04/14/16 Analyzed: 04/18/16						
Total Dissolved Solids	780	10	mg/L		840			7.41	15	
<b>Duplicate (AD63243-DUP2)</b>		<b>Source: 16D1035-01</b>		Prepared: 04/14/16 Analyzed: 04/18/16						
Total Dissolved Solids	640	10	mg/L		600			6.45	15	

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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:  
04/27/16 15:52

### 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
<b>Batch AD63291 - General Preparation</b>										
<b>Blank (AD63291-BLK1)</b>				Prepared & Analyzed: 04/20/16						
Silica	ND	1.0	mg/L							
<b>LCS (AD63291-BS1)</b>				Prepared & Analyzed: 04/20/16						
Silica	10.6	1.0	mg/L	10.0		106	85-115			
<b>LCS Dup (AD63291-BSD1)</b>				Prepared & Analyzed: 04/20/16						
Silica	11.0	1.0	mg/L	10.0		110	85-115	4.17	20	
<b>Duplicate (AD63291-DUP1)</b>				<b>Source: 16D1431-01</b>			Prepared & Analyzed: 04/20/16			
Silica	15.8	2.0	mg/L		15.7			0.518	20	
<b>Matrix Spike (AD63291-MS1)</b>				<b>Source: 16D1431-01</b>			Prepared & Analyzed: 04/20/16			
Silica	33.2	2.0	mg/L	20.0	15.7	87.1	80-120			
<b>Matrix Spike Dup (AD63291-MSD1)</b>				<b>Source: 16D1431-01</b>			Prepared & Analyzed: 04/20/16			
Silica	34.7	2.0	mg/L	20.0	15.7	94.9	80-120	4.58	20	
<b>Batch AD63386 - General Preparation</b>										
<b>Blank (AD63386-BLK1)</b>				Prepared & Analyzed: 04/19/16						
Ammonia as NH3	ND	0.50	mg/L							
<b>Blank (AD63386-BLK2)</b>				Prepared & Analyzed: 04/19/16						
Ammonia as NH3	ND	0.50	mg/L							
<b>LCS (AD63386-BS1)</b>				Prepared & Analyzed: 04/19/16						
Ammonia as NH3	5.85	0.50	mg/L	6.10		96.0	90-110			

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500 Laurel Street  
Menlo Park, CA 94025

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

Reported:  
04/27/16 15:52

**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
<b>Batch AD63386 - General Preparation</b>										
<b>LCS Dup (AD63386-BSD1)</b>				Prepared & Analyzed: 04/19/16						
Ammonia as NH3	5.96	0.50	mg/L	6.10		97.7	90-110	1.81	10	
<b>Matrix Spike (AD63386-MS1)</b>				Source: 16D0958-02 Prepared: 04/19/16 Analyzed: 04/20/16						
Ammonia as NH3	11.9	0.50	mg/L	12.2	ND	97.7	85-115			
<b>Matrix Spike Dup (AD63386-MSD1)</b>				Source: 16D0958-02 Prepared: 04/19/16 Analyzed: 04/20/16						
Ammonia as NH3	11.5	0.50	mg/L	12.2	ND	94.2	85-115	3.64	20	



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

Reported:  
04/27/16 15:52

### 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
<b>Batch AD63154 - General Preparation</b>										
<b>Blank (AD63154-BLK1)</b>				Prepared & Analyzed: 04/12/16						
Chloride	ND	0.50	mg/L							
Nitrate as N	ND	0.20	mg/L							
Nitrite as N	ND	0.20	mg/L							
Nitrite as NO2	ND	1.0	mg/L							
Nitrate as NO3	ND	1.0	mg/L							
<b>LCS (AD63154-BS1)</b>				Prepared & Analyzed: 04/12/16						
Chloride	11.4	0.50	mg/L	11.1		102	90-110			
Nitrite as N	5.27	0.20	mg/L	5.56		94.8	90-110			
Nitrate as N	5.71	0.20	mg/L	5.56		103	90-110			
Nitrate as NO3	25	1.0	mg/L	24.7		103	90-110			
Nitrite as NO2	17.3	1.0	mg/L	18.2		95.1	90-110			
<b>Duplicate (AD63154-DUP1)</b>				<b>Source: 16D0857-01</b>			Prepared & Analyzed: 04/12/16			
Nitrate as NO3	ND	1.0	mg/L		ND			14.5	20	
Chloride	4.42	0.50	mg/L		4.44			0.361	20	
Nitrate as N	ND	0.20	mg/L		ND			14.5	20	
Nitrite as NO2	ND	1.0	mg/L		ND				20	
Nitrite as N	ND	0.20	mg/L		ND				20	
<b>Matrix Spike (AD63154-MS1)</b>				<b>Source: 16D0857-01</b>			Prepared & Analyzed: 04/12/16			
Nitrate as N	5.96	0.20	mg/L	5.56	ND	106	80-120			
Chloride	15.9	0.50	mg/L	11.1	4.44	103	80-120			
Nitrate as NO3	26	1.0	mg/L	24.7	ND	106	80-120			
Nitrite as N	5.45	0.20	mg/L	5.56	ND	97.1	80-120			
Nitrite as NO2	17.9	1.0	mg/L	18.2	ND	97.4	80-120			
<b>Matrix Spike (AD63154-MS2)</b>				<b>Source: 16D0875-01</b>			Prepared & Analyzed: 04/12/16			
Nitrite as N	4.64	2.0	mg/L	5.56	ND	83.6	80-120			
Nitrite as NO2	15.3	10	mg/L	18.2	ND	83.9	80-120			
Nitrate as N	5.87	2.0	mg/L	5.56	ND	86.4	80-120			
Nitrate as NO3	26	10	mg/L	24.7	ND	86.2	80-120			
Chloride	91.3	5.0	mg/L	11.1	80.5	96.9	80-120			

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

Reported:  
04/27/16 15:52

**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 AD63154 - General Preparation**

**Matrix Spike Dup (AD63154-MSD1)**

**Source: 16D0857-01**

Prepared & Analyzed: 04/12/16

Nitrate as N	6.00	0.20	mg/L	5.56	ND	107	80-120	0.705	20	
Chloride	16.0	0.50	mg/L	11.1	4.44	104	80-120	0.216	20	
Nitrate as NO3	27	1.0	mg/L	24.7	ND	107	80-120	0.705	20	
Nitrite as N	5.47	0.20	mg/L	5.56	ND	97.5	80-120	0.387	20	
Nitrite as NO2	18.0	1.0	mg/L	18.2	ND	97.8	80-120	0.387	20	





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Reported:  
04/27/16 15:52

#### 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-14 Residual chlorine, dissolved oxygen, and pH must be analyzed in the field to meet the EPA specified 15 minute hold time.
- T-17 Sample analyzed outside of recommended hold time. Client notified.
- 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

# Work Order Chain of Custody Record

Lab No. 1600794 Page      of     

Company/Name: West Bay Sanitary District		Project ID: <b>WQ Monitoring</b>		Signature below authorizes work under terms stated on reverse side.												Sample Notes		TAT																																															
Mailing Address: 500 Laurel Street Menlo Park, CA 94025		Project No: <b>Oak Avenue</b>		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="12">Analysis Request</th> </tr> <tr> <td>DU BOD</td> <td>DU pH</td> <td>200.7 - B, Ca, Mg, Na</td> <td>Ammonia, Phosphorus</td> <td>Total Nitrogen</td> <td>Chloride, EC, NO2, NO3</td> <td>Alkalinity, Bicarbonate</td> <td>SAR Adjusted Calculation</td> <td>Silica</td> <td>TDS</td> <td>TSS</td> <td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>												Analysis Request												DU BOD	DU pH	200.7 - B, Ca, Mg, Na	Ammonia, Phosphorus	Total Nitrogen	Chloride, EC, NO2, NO3	Alkalinity, Bicarbonate	SAR Adjusted Calculation	Silica	TDS	TSS																										4.0 4.6 c/g	<input type="radio"/> 24 hr <input type="radio"/> 48 hr <input type="radio"/> 1 wk <input type="radio"/> 2 wk (standard)
Analysis Request																																																																	
DU BOD	DU pH	200.7 - B, Ca, Mg, Na	Ammonia, Phosphorus													Total Nitrogen	Chloride, EC, NO2, NO3	Alkalinity, Bicarbonate	SAR Adjusted Calculation	Silica	TDS	TSS																																											
Project Contact & Email (Hardcopy or PDF to): John Simonetti jsimonetti@westbaysanitary.org		PO#																																																															
Phone/Fax: 1-50-321-0384		Site Contact: John Simonetti																																																															
Field Sampler - Print Name & Signature <i>John Simonetti</i>		Sample Collection																																																															
Sample Identification		Date Time		40ml Vial	Poly	Glass	Sleeve	Other	HCL	HNO3	H2SO4	Other	None	Water	Soil	Other	DU BOD	DU pH	200.7 - B, Ca, Mg, Na	Ammonia, Phosphorus	Total Nitrogen	Chloride, EC, NO2, NO3	Alkalinity, Bicarbonate	SAR Adjusted Calculation	Silica	TDS	TSS	Lab Approval Required For Rush																																					
Oak Avenue		4/8 0900		4						1	1			2	x		x	x	x	x	x	x	x	x	x	x	x																																						
Relinquished by:		Received by:		Date	Time	CDPH Write On EDT Report? Yes <input type="radio"/> No <input type="radio"/> State System Number: _____ CA Geotracker EDF Report Yes <input type="radio"/> No <input type="radio"/> Sampling Company Log Code: _____ Global ID: _____ EDF to (Email Address): _____	<input type="radio"/> 1 wk <input type="radio"/> 2 wk (standard)																																																										
<i>[Signature]</i>		<i>[Signature]</i>		4/8/16	1200																																																												
<i>[Signature]</i>		<i>[Signature]</i>		4/8	1720																																																												
<i>[Signature]</i>		<i>[Signature]</i>		4/11	18:00																																																												
<i>[Signature]</i>		<i>[Signature]</i>		4/11	2115																																																												
Relinquished by:		Received by:		Date	Time	Travel and Site Time:	Mileage:	Misc. Supplies:																																																									



*Alpha*

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ELAP Certificates 1551, 2728, and 2922

27 April 2016

West Bay Sanitary District

Attn: John Simonetti

500 Laurel Street

Menlo Park, CA 94025

RE: WQ Monitoring

Work Order: 16D0889

Enclosed are the results of analyses for samples received by the laboratory on 04/11/16 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:  
04/27/16 16:11

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Oak Avenue	16D0889-01	Water	04/09/16 09:00	04/11/16 21:15



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Project Number: Oak Avenue

Reported:  
04/27/16 16:11

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
<b>Oak Avenue (16D0889-01)</b>								
<b>Sample Type: Water</b>								
<b>Sampled: 04/09/16 09:00</b>								
<b>Metals by EPA 200 Series Methods</b>								
Boron	0.32 mg/L	0.050	1	AD63405	04/19/16 14:08	04/26/16 13:58	EPA 200.7	
Calcium	43 mg/L	1.0	1	AD63405	04/19/16 14:08	04/26/16 13:58	EPA 200.7	
Magnesium	21 mg/L	1.0	1	AD63405	04/19/16 14:08	04/26/16 13:58	EPA 200.7	
Sodium	68 mg/L	1.0	1	AD63405	04/19/16 14:08	04/26/16 13:58	EPA 200.7	
<b>Conventional Chemistry Parameters by APHA/EPA Methods</b>								
Ammonia as NH3	53 mg/L	0.50	1	AD63386	04/19/16 08:43	04/19/16 11:12	SM4500NH3C	
Bicarbonate	380 mg/L	5.0	1	AD63111	04/13/16 08:00	04/13/16 17:00	SM2320B	
Biochemical Oxygen Demand	460 mg/L	5.0	1	AD63375	04/13/16 06:00	04/18/16 12:00	SM5210B	T-1, T-16
pH	7.59 pH Units	1.68	1	AD63164	04/11/16 18:00	04/11/16 18:00	SM4500-H+ B	T-14
Specific Conductance (EC)	1000 umhos/cm	20	1	AD63192	04/12/16 17:00	04/12/16 17:00	SM2510B	
Total Dissolved Solids	400 mg/L	10	1	AD63243	04/14/16 09:45	04/18/16 12:00	SM2540C	
Total Suspended Solids	260 mg/L	1.0	1	AD63254	04/14/16 15:00	04/18/16 10:00	SM2540D	
Silica	21 mg/L	2.0	2	AD63291	04/20/16 11:30	04/20/16 16:00	SM4500-SiO2 C	
Bicarbonate Alkalinity as CaCO3	310 mg/L	5.0	1	AD63111	04/13/16 08:00	04/13/16 17:00	SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AD63111	04/13/16 08:00	04/13/16 17:00	SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AD63111	04/13/16 08:00	04/13/16 17:00	SM2320B	
Total Alkalinity as CaCO3	310 mg/L	5.0	1	AD63111	04/13/16 08:00	04/13/16 17:00	SM2320B	
Total Kjeldahl Nitrogen	71 mg/L	1.0	1	AD63176	04/18/16 14:25	04/20/16 13:20	SM4500-Norg B	
Total Nitrogen	71 mg/L	1.0	1	AD63202	04/13/16 10:05	04/21/16 16:16	SM4500-N	
Phosphorus, total	9.1 mg/L	2.0	5	AD63470	04/21/16 08:30	04/21/16 13:58	SM4500-PE	
<b>Miscellaneous Physical/Conventional Chemistry Parameters</b>								
Sodium Adsorption Ratio-Adj RNA	2.51 NA		1	AD63405	04/19/16 14:08	04/27/16 11:22	SAR	

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500 Laurel Street  
Menlo Park, CA 94025

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

Reported:  
04/27/16 16:11

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
<b>Oak Avenue (16D0889-01)</b>								
				<b>Sample Type: Water</b>		<b>Sampled: 04/09/16 09:00</b>		
<b>Anions by EPA Method 300.0</b>								
<b>Chloride</b>	<b>66 mg/L</b>	<b>12</b>	25	AD63154	04/12/16 12:52	04/12/16 12:52	EPA 300.0	
Nitrate as N	ND mg/L	0.20	1	AD63154	04/12/16 12:52	04/12/16 12:52	EPA 300.0	T-17
Nitrate as NO3	ND mg/L	1.0	1	AD63154	04/12/16 12:52	04/12/16 12:52	EPA 300.0	T-17
Nitrite as N	ND mg/L	0.20	1	AD63154	04/12/16 12:52	04/12/16 12:52	EPA 300.0	T-17
Nitrite as NO2	ND mg/L	1.0	1	AD63154	04/12/16 12:52	04/12/16 12:52	EPA 300.0	T-17



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Project Number: Oak Avenue

Reported:  
04/27/16 16:11

### 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
<b>Batch AD63405 - Metals Digest</b>										
<b>Blank (AD63405-BLK1)</b>				Prepared: 04/19/16 Analyzed: 04/21/16						
Boron	ND	0.050	mg/L							
Calcium	ND	1.0	mg/L							
Magnesium	ND	1.0	mg/L							
Sodium	ND	1.0	mg/L							
<b>LCS (AD63405-BS1)</b>				Prepared: 04/19/16 Analyzed: 04/21/16						
Boron	0.410	0.050	mg/L	0.400		103	85-115			
Calcium	7.25	1.0	mg/L	8.00		90.6	85-115			
Magnesium	7.19	1.0	mg/L	8.00		89.9	85-115			
Sodium	7.51	1.0	mg/L	8.00		93.9	85-115			
<b>Duplicate (AD63405-DUP1)</b>				<b>Source: 16D0899-02</b> Prepared: 04/19/16 Analyzed: 04/21/16						
Boron	0.213	0.050	mg/L		0.204			4.15	20	
Calcium	24.2	1.0	mg/L		24.4			0.580	20	
Magnesium	1.44	1.0	mg/L		1.39			3.51	20	
Sodium	329	1.0	mg/L		346			5.13	20	
<b>Matrix Spike (AD63405-MS1)</b>				<b>Source: 16D0899-02</b> Prepared: 04/19/16 Analyzed: 04/21/16						
Boron	0.606	0.050	mg/L	0.400	0.204	100	70-130			
Calcium	32.1	1.0	mg/L	8.00	24.4	96.6	70-130			
Magnesium	8.94	1.0	mg/L	8.00	1.39	94.4	70-130			
Sodium	336	1.0	mg/L	8.00	346	NR	70-130			QM-4X
<b>Matrix Spike (AD63405-MS2)</b>				<b>Source: 16D0791-02</b> Prepared: 04/19/16 Analyzed: 04/21/16						
Boron	0.403	0.050	mg/L	0.400	ND	101	70-130			
Calcium	8.04	1.0	mg/L	8.00	ND	95.9	70-130			
Magnesium	7.72	1.0	mg/L	8.00	ND	95.6	70-130			
Sodium	7.99	1.0	mg/L	8.00	ND	98.0	70-130			

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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:  
04/27/16 16:11

**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
<b>Batch AD63405 - Metals Digest</b>										
<b>Matrix Spike Dup (AD63405-MSD1)</b>	<b>Source: 16D0899-02</b> Prepared: 04/19/16 Analyzed: 04/21/16									
Boron	0.570	0.050	mg/L	0.400	0.204	91.6	70-130	6.01	20	
Calcium	32.5	1.0	mg/L	8.00	24.4	102	70-130	1.28	20	
Magnesium	8.54	1.0	mg/L	8.00	1.39	89.4	70-130	4.55	20	
Sodium	347	1.0	mg/L	8.00	346	3.12	70-130	3.10	20	QM-4X





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Reported:  
04/27/16 16:11

### 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
<b>Batch AD63111 - General Preparation</b>										
<b>Duplicate (AD63111-DUP1)</b>		<b>Source: 16D0865-01</b>			Prepared & Analyzed: 04/13/16					
Bicarbonate	26.8	5.0	mg/L		26.8			0.00	20	
Bicarbonate Alkalinity as CaCO3	22.0	5.0	mg/L		22.0			0.00	20	
Carbonate Alkalinity as CaCO3	ND	5.0	mg/L		ND				20	
Hydroxide Alkalinity as CaCO3	ND	5.0	mg/L		ND				20	
Total Alkalinity as CaCO3	22.0	5.0	mg/L		22.0			0.00	20	
<b>Batch AD63164 - General Preparation</b>										
<b>Duplicate (AD63164-DUP1)</b>		<b>Source: 16D0794-01</b>			Prepared & Analyzed: 04/11/16					
pH	7.43	1.68	pH Units		7.46			0.403	20	
<b>Batch AD63176 - General Prep</b>										
<b>LCS (AD63176-BS1)</b>					Prepared: 04/13/16 Analyzed: 04/14/16					
Total Kjeldahl Nitrogen	2.95	1.0	mg/L	2.98		99.0	80-120			
<b>LCS Dup (AD63176-BSD1)</b>					Prepared: 04/13/16 Analyzed: 04/14/16					
Total Kjeldahl Nitrogen	2.95	1.0	mg/L	2.98		99.0	80-120	0.00	20	
<b>Matrix Spike (AD63176-MS1)</b>		<b>Source: 16D0900-01</b>			Prepared & Analyzed: 04/14/16					
Total Kjeldahl Nitrogen	82.7	1.0	mg/L	22.6	55.3	121	75-125			
<b>Matrix Spike Dup (AD63176-MSD1)</b>		<b>Source: 16D0900-01</b>			Prepared & Analyzed: 04/14/16					
Total Kjeldahl Nitrogen	82.7	1.0	mg/L	22.6	55.3	121	75-125	0.00	20	

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Project: WQ Monitoring  
Project Number: Oak Avenue

Reported:  
04/27/16 16:11

### 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
<b>Batch AD63192 - General Preparation</b>										
<b>Duplicate (AD63192-DUP1)</b>		<b>Source: 16D0977-01</b>		Prepared & Analyzed: 04/12/16						
Specific Conductance (EC)	153	20	umhos/cm		152			0.656	5	
<b>Batch AD63243 - General Preparation</b>										
<b>Blank (AD63243-BLK1)</b>				Prepared: 04/14/16 Analyzed: 04/18/16						
Total Dissolved Solids	ND	10	mg/L							
<b>Duplicate (AD63243-DUP1)</b>		<b>Source: 16D0912-01</b>		Prepared: 04/14/16 Analyzed: 04/18/16						
Total Dissolved Solids	780	10	mg/L		840			7.41	15	
<b>Duplicate (AD63243-DUP2)</b>		<b>Source: 16D1035-01</b>		Prepared: 04/14/16 Analyzed: 04/18/16						
Total Dissolved Solids	640	10	mg/L		600			6.45	15	
<b>Batch AD63254 - General Preparation</b>										
<b>Blank (AD63254-BLK1)</b>				Prepared: 04/14/16 Analyzed: 04/18/16						
Total Suspended Solids	ND	1.0	mg/L							
<b>Duplicate (AD63254-DUP1)</b>		<b>Source: 16D0889-01</b>		Prepared: 04/14/16 Analyzed: 04/18/16						
Total Suspended Solids	230	1.0	mg/L		264			13.8	30	
<b>Duplicate (AD63254-DUP2)</b>		<b>Source: 16D0892-01</b>		Prepared: 04/14/16 Analyzed: 04/18/16						
Total Suspended Solids	228	1.0	mg/L		218			4.48	30	
<b>Batch AD63291 - General Preparation</b>										
<b>Blank (AD63291-BLK1)</b>				Prepared & Analyzed: 04/20/16						
Silica	ND	1.0	mg/L							

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Project: WQ Monitoring  
Project Number: Oak Avenue

Reported:  
04/27/16 16:11

### 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
<b>Batch AD63291 - General Preparation</b>										
<b>LCS (AD63291-BS1)</b>				Prepared & Analyzed: 04/20/16						
Silica	10.6	1.0	mg/L	10.0		106	85-115			
<b>LCS Dup (AD63291-BSD1)</b>				Prepared & Analyzed: 04/20/16						
Silica	11.0	1.0	mg/L	10.0		110	85-115	4.17	20	
<b>Duplicate (AD63291-DUP1)</b>				Source: 16D1431-01 Prepared & Analyzed: 04/20/16						
Silica	15.8	2.0	mg/L		15.7			0.518	20	
<b>Matrix Spike (AD63291-MS1)</b>				Source: 16D1431-01 Prepared & Analyzed: 04/20/16						
Silica	33.2	2.0	mg/L	20.0	15.7	87.1	80-120			
<b>Matrix Spike Dup (AD63291-MSD1)</b>				Source: 16D1431-01 Prepared & Analyzed: 04/20/16						
Silica	34.7	2.0	mg/L	20.0	15.7	94.9	80-120	4.58	20	
<b>Batch AD63375 - General Preparation</b>										
<b>Blank (AD63375-BLK1)</b>				Prepared: 04/13/16 Analyzed: 04/18/16						
Biochemical Oxygen Demand	ND	5.0	mg/L							
<b>Blank (AD63375-BLK2)</b>				Prepared: 04/13/16 Analyzed: 04/18/16						
Biochemical Oxygen Demand	ND	5.0	mg/L							
<b>LCS (AD63375-BS1)</b>				Prepared: 04/12/16 Analyzed: 04/17/16						
Biochemical Oxygen Demand	186	5.0	mg/L	200		92.8	84-115			
<b>Duplicate (AD63375-DUP1)</b>				Source: 16D1048-01 Prepared: 04/13/16 Analyzed: 04/18/16						
Biochemical Oxygen Demand	370	5.0	mg/L		356			3.86	30	

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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
<b>Batch AD63386 - General Preparation</b>										
<b>Blank (AD63386-BLK1)</b>				Prepared & Analyzed: 04/19/16						
Ammonia as NH3	ND	0.50	mg/L							
<b>Blank (AD63386-BLK2)</b>				Prepared & Analyzed: 04/19/16						
Ammonia as NH3	ND	0.50	mg/L							
<b>LCS (AD63386-BS1)</b>				Prepared & Analyzed: 04/19/16						
Ammonia as NH3	5.85	0.50	mg/L	6.10		96.0	90-110			
<b>LCS Dup (AD63386-BSD1)</b>				Prepared & Analyzed: 04/19/16						
Ammonia as NH3	5.96	0.50	mg/L	6.10		97.7	90-110	1.81	10	
<b>Matrix Spike (AD63386-MS1)</b>				<b>Source: 16D0958-02</b>		Prepared: 04/19/16 Analyzed: 04/20/16				
Ammonia as NH3	11.9	0.50	mg/L	12.2	ND	97.7	85-115			
<b>Matrix Spike Dup (AD63386-MSD1)</b>				<b>Source: 16D0958-02</b>		Prepared: 04/19/16 Analyzed: 04/20/16				
Ammonia as NH3	11.5	0.50	mg/L	12.2	ND	94.2	85-115	3.64	20	
<b>Batch AD63470 - General Prep</b>										
<b>Blank (AD63470-BLK1)</b>				Prepared & Analyzed: 04/21/16						
Phosphorus, total	ND	0.040	mg/L							
<b>LCS (AD63470-BS1)</b>				Prepared & Analyzed: 04/21/16						
Phosphorus, total	0.199	0.040	mg/L	0.200		99.6	85-115			
<b>Duplicate (AD63470-DUP1)</b>				<b>Source: 16D0889-01</b>		Prepared & Analyzed: 04/21/16				
Phosphorus, total	9.03	2.0	mg/L		9.10			0.734	20	

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Project: WQ Monitoring  
Project Number: Oak Avenue

Reported:  
04/27/16 16:11

**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
<b>Batch AD63470 - General Prep</b>										
<b>Matrix Spike (AD63470-MS1)</b>		<b>Source: 16D0889-01</b>			Prepared & Analyzed: 04/21/16					
Phosphorus, total	10.4	2.0	mg/L	2.00	9.10	66.5	70-130			QM-4X
<b>Matrix Spike Dup (AD63470-MSD1)</b>		<b>Source: 16D0889-01</b>			Prepared & Analyzed: 04/21/16					
Phosphorus, total	10.4	2.0	mg/L	2.00	9.10	63.2	70-130	0.640	20	QM-4X



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04/27/16 16:11

### 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
<b>Batch AD63154 - General Preparation</b>										
<b>Blank (AD63154-BLK1)</b>				Prepared & Analyzed: 04/12/16						
Chloride	ND	0.50	mg/L							
Nitrite as NO2	ND	1.0	mg/L							
Nitrate as NO3	ND	1.0	mg/L							
Nitrate as N	ND	0.20	mg/L							
Nitrite as N	ND	0.20	mg/L							
<b>LCS (AD63154-BS1)</b>				Prepared & Analyzed: 04/12/16						
Chloride	11.4	0.50	mg/L	11.1		102	90-110			
Nitrite as NO2	17.3	1.0	mg/L	18.2		95.1	90-110			
Nitrate as NO3	25	1.0	mg/L	24.7		103	90-110			
Nitrate as N	5.71	0.20	mg/L	5.56		103	90-110			
Nitrite as N	5.27	0.20	mg/L	5.56		94.8	90-110			
<b>Duplicate (AD63154-DUP1)</b>				<b>Source: 16D0857-01</b>			Prepared & Analyzed: 04/12/16			
Nitrate as NO3	ND	1.0	mg/L		ND			14.5	20	
Chloride	4.42	0.50	mg/L		4.44			0.361	20	
Nitrate as N	ND	0.20	mg/L		ND			14.5	20	
Nitrite as NO2	ND	1.0	mg/L		ND				20	
Nitrite as N	ND	0.20	mg/L		ND				20	
<b>Matrix Spike (AD63154-MS1)</b>				<b>Source: 16D0857-01</b>			Prepared & Analyzed: 04/12/16			
Chloride	15.9	0.50	mg/L	11.1	4.44	103	80-120			
Nitrate as NO3	26	1.0	mg/L	24.7	ND	106	80-120			
Nitrate as N	5.96	0.20	mg/L	5.56	ND	106	80-120			
Nitrite as N	5.45	0.20	mg/L	5.56	ND	97.1	80-120			
Nitrite as NO2	17.9	1.0	mg/L	18.2	ND	97.4	80-120			
<b>Matrix Spike (AD63154-MS2)</b>				<b>Source: 16D0875-01</b>			Prepared & Analyzed: 04/12/16			
Chloride	91.3	5.0	mg/L	11.1	80.5	96.9	80-120			
Nitrate as NO3	26	10	mg/L	24.7	ND	86.2	80-120			
Nitrate as N	5.87	2.0	mg/L	5.56	ND	86.4	80-120			
Nitrite as NO2	15.3	10	mg/L	18.2	ND	83.9	80-120			
Nitrite as N	4.64	2.0	mg/L	5.56	ND	83.6	80-120			

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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
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#### Batch AD63154 - General Preparation

**Matrix Spike Dup (AD63154-MSD1)**

**Source: 16D0857-01**

Prepared & Analyzed: 04/12/16

Chloride	16.0	0.50	mg/L	11.1	4.44	104	80-120	0.216	20	
Nitrate as NO3	27	1.0	mg/L	24.7	ND	107	80-120	0.705	20	
Nitrite as NO2	18.0	1.0	mg/L	18.2	ND	97.8	80-120	0.387	20	
Nitrite as N	5.47	0.20	mg/L	5.56	ND	97.5	80-120	0.387	20	
Nitrate as N	6.00	0.20	mg/L	5.56	ND	107	80-120	0.705	20	



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#### 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-17 Sample analyzed outside of recommended hold time. Client notified.
- 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



Company/Name: West Bay Sanitary District		Project ID: WQ Monitoring		Signature below authorizes work under terms stated on reverse side.														Analysis Request		Sample Notes		TAT									
Mailing Address: 500 Laurel Street Menlo Park, CA 94025		Project No: Oak Avenue																3.9 4.6 c/g		<input type="radio"/> 24 hr <input type="radio"/> 48 hr <input type="radio"/> Lab Approval Required <input type="radio"/> 1 wk <input type="radio"/> 2 wk (standard)											
Project Contact & Email (Hardcopy or PDF to): John Simonetti jsimonetti@westbaysanitary.org		PO#																													
Phone/Fax: 650-321-0281		Site Contact: John Simonetti																													
Field Sampler - Print Name & Signature <i>[Signature]</i>		Sample Collection		Container		Preservative			Matrix																						
Sample Identification		Date Time		40ml Vial	Poly	Glass	Sleeve	Other	HCL	HNO3	H2SO4	Other	None	Water	Soil	Other	DU BOD	DU pH	200.7 - B, Ca, Mg, Na	Ammonia, Phosphorus	Total Nitrogen	Chloride, EC, NO2, NO3	Alkalinity, Bicarbonate	SAR Adjusted Calculation	Silica	TDS	TSS				
Oak Avenue		4/16 0900		4					1	1				2	X		X	X	X	X	X	X	X	X	X	X	X				
Relinquished by:		Received by:		Date	Time	CDPH Write On EDT Report?		Yes <input type="radio"/> No <input type="radio"/>																							
Relinquished by:		Received by:		Date	Time	State System Number:																									
Relinquished by:		Received by:		Date	Time	CA Geotracker EDF Report		Yes <input type="radio"/> No <input type="radio"/>																							
Relinquished by:		Received by:		Date	Time	Sampling Company Log Code:																									
Relinquished by:		Received by:		Date	Time	Global ID:		EDF to (Email Address):																							
Relinquished by:		Received by:		Date	Time	Travel and Site Time:		Mileage:		Misc. Supplies:																					



*Alpha*

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ELAP Certificates 1551, 2728, and 2922

27 April 2016

West Bay Sanitary District

Attn: John Simonetti

500 Laurel Street

Menlo Park, CA 94025

RE: WQ Monitoring

Work Order: 16D0892

Enclosed are the results of analyses for samples received by the laboratory on 04/11/16 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:  
04/27/16 16:11

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Oak Avenue	16D0892-01	Water	04/10/16 09:00	04/11/16 21:15



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Project: WQ Monitoring  
Project Number: Oak Avenue

Reported:  
04/27/16 16:11

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
<b>Oak Avenue (16D0892-01)</b>		<b>Sample Type: Water</b>			<b>Sampled: 04/10/16 09:00</b>			
<b>Metals by EPA 200 Series Methods</b>								
Boron	0.36 mg/L	0.050	1	AD63405	04/19/16 14:08	04/26/16 14:03	EPA 200.7	
Calcium	43 mg/L	1.0	1	AD63405	04/19/16 14:08	04/26/16 14:03	EPA 200.7	
Magnesium	20 mg/L	1.0	1	AD63405	04/19/16 14:08	04/26/16 14:03	EPA 200.7	
Sodium	63 mg/L	1.0	1	AD63405	04/19/16 14:08	04/26/16 14:03	EPA 200.7	
<b>Conventional Chemistry Parameters by APHA/EPA Methods</b>								
Ammonia as NH3	49 mg/L	0.50	1	AD63386	04/19/16 08:43	04/19/16 11:18	SM4500NH3C	
Bicarbonate	350 mg/L	5.0	1	AD63111	04/13/16 08:00	04/13/16 17:00	SM2320B	
Biochemical Oxygen Demand	330 mg/L	5.0	1	AD63368	04/12/16 09:00	04/17/16 15:00	SM5210B	
pH	7.62 pH Units	1.68	1	AD63164	04/11/16 18:00	04/11/16 18:00	SM4500-H+ B	T-14
Specific Conductance (EC)	940 umhos/cm	20	1	AD63192	04/12/16 17:00	04/12/16 17:00	SM2510B	
Total Dissolved Solids	450 mg/L	10	1	AD63243	04/14/16 09:45	04/18/16 12:00	SM2540C	
Total Suspended Solids	220 mg/L	1.0	1	AD63254	04/14/16 15:00	04/18/16 10:00	SM2540D	
Silica	20 mg/L	2.0	2	AD63291	04/20/16 11:30	04/20/16 16:00	SM4500-SiO2 C	
Bicarbonate Alkalinity as CaCO3	280 mg/L	5.0	1	AD63111	04/13/16 08:00	04/13/16 17:00	SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AD63111	04/13/16 08:00	04/13/16 17:00	SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AD63111	04/13/16 08:00	04/13/16 17:00	SM2320B	
Total Alkalinity as CaCO3	280 mg/L	5.0	1	AD63111	04/13/16 08:00	04/13/16 17:00	SM2320B	
Total Kjeldahl Nitrogen	67 mg/L	1.0	1	AD63176	04/18/16 14:25	04/20/16 13:20	SM4500-Norg B	
Total Nitrogen	67 mg/L	1.0	1	AD63202	04/13/16 10:05	04/21/16 16:16	SM4500-N	
Phosphorus, total	6.6 mg/L	2.0	5	AD63470	04/21/16 08:30	04/21/16 13:58	SM4500-PE	
<b>Miscellaneous Physical/Conventional Chemistry Parameters</b>								
Sodium Adsorption Ratio-Adj RNA	2.36 NA		1	AD63405	04/19/16 14:08	04/27/16 11:22	SAR	

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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:  
04/27/16 16:11

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
<b>Oak Avenue (16D0892-01)</b>		<b>Sample Type: Water</b>			<b>Sampled: 04/10/16 09:00</b>			
<b>Anions by EPA Method 300.0</b>								
<b>Chloride</b>	<b>64 mg/L</b>	<b>12</b>	25	AD63154	04/12/16 13:57	04/12/16 13:57	EPA 300.0	
Nitrate as N	ND mg/L	0.20	1	AD63154	04/12/16 13:57	04/12/16 13:57	EPA 300.0	T-17
Nitrate as NO3	ND mg/L	1.0	1	AD63154	04/12/16 13:57	04/12/16 13:57	EPA 300.0	T-17
Nitrite as N	ND mg/L	0.20	1	AD63154	04/12/16 13:57	04/12/16 13:57	EPA 300.0	T-17
Nitrite as NO2	ND mg/L	1.0	1	AD63154	04/12/16 13:57	04/12/16 13:57	EPA 300.0	T-17



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Reported:  
04/27/16 16:11

### 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
<b>Batch AD63405 - Metals Digest</b>										
<b>Blank (AD63405-BLK1)</b>				Prepared: 04/19/16 Analyzed: 04/21/16						
Boron	ND	0.050	mg/L							
Calcium	ND	1.0	mg/L							
Magnesium	ND	1.0	mg/L							
Sodium	ND	1.0	mg/L							
<b>LCS (AD63405-BS1)</b>				Prepared: 04/19/16 Analyzed: 04/21/16						
Boron	0.410	0.050	mg/L	0.400		103	85-115			
Calcium	7.25	1.0	mg/L	8.00		90.6	85-115			
Magnesium	7.19	1.0	mg/L	8.00		89.9	85-115			
Sodium	7.51	1.0	mg/L	8.00		93.9	85-115			
<b>Duplicate (AD63405-DUP1)</b>				<b>Source: 16D0899-02</b> Prepared: 04/19/16 Analyzed: 04/21/16						
Boron	0.213	0.050	mg/L		0.204			4.15	20	
Calcium	24.2	1.0	mg/L		24.4			0.580	20	
Magnesium	1.44	1.0	mg/L		1.39			3.51	20	
Sodium	329	1.0	mg/L		346			5.13	20	
<b>Matrix Spike (AD63405-MS1)</b>				<b>Source: 16D0899-02</b> Prepared: 04/19/16 Analyzed: 04/21/16						
Boron	0.606	0.050	mg/L	0.400	0.204	100	70-130			
Calcium	32.1	1.0	mg/L	8.00	24.4	96.6	70-130			
Magnesium	8.94	1.0	mg/L	8.00	1.39	94.4	70-130			
Sodium	336	1.0	mg/L	8.00	346	NR	70-130			QM-4X
<b>Matrix Spike (AD63405-MS2)</b>				<b>Source: 16D0791-02</b> Prepared: 04/19/16 Analyzed: 04/21/16						
Boron	0.403	0.050	mg/L	0.400	ND	101	70-130			
Calcium	8.04	1.0	mg/L	8.00	ND	95.9	70-130			
Magnesium	7.72	1.0	mg/L	8.00	ND	95.6	70-130			
Sodium	7.99	1.0	mg/L	8.00	ND	98.0	70-130			

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500 Laurel Street  
Menlo Park, CA 94025

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

Reported:  
04/27/16 16:11

**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
<b>Batch AD63405 - Metals Digest</b>										
<b>Matrix Spike Dup (AD63405-MSD1)</b>	<b>Source: 16D0899-02</b> Prepared: 04/19/16 Analyzed: 04/21/16									
Boron	0.570	0.050	mg/L	0.400	0.204	91.6	70-130	6.01	20	
Calcium	32.5	1.0	mg/L	8.00	24.4	102	70-130	1.28	20	
Magnesium	8.54	1.0	mg/L	8.00	1.39	89.4	70-130	4.55	20	
Sodium	347	1.0	mg/L	8.00	346	3.12	70-130	3.10	20	QM-4X



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

Reported:  
04/27/16 16:11

### 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
<b>Batch AD63111 - General Preparation</b>										
<b>Duplicate (AD63111-DUP1)</b>		<b>Source: 16D0865-01</b>			Prepared & Analyzed: 04/13/16					
Bicarbonate	26.8	5.0	mg/L		26.8			0.00	20	
Bicarbonate Alkalinity as CaCO3	22.0	5.0	mg/L		22.0			0.00	20	
Carbonate Alkalinity as CaCO3	ND	5.0	mg/L		ND				20	
Hydroxide Alkalinity as CaCO3	ND	5.0	mg/L		ND				20	
Total Alkalinity as CaCO3	22.0	5.0	mg/L		22.0			0.00	20	
<b>Batch AD63164 - General Preparation</b>										
<b>Duplicate (AD63164-DUP1)</b>		<b>Source: 16D0794-01</b>			Prepared & Analyzed: 04/11/16					
pH	7.43	1.68	pH Units		7.46			0.403	20	
<b>Batch AD63176 - General Prep</b>										
<b>LCS (AD63176-BS1)</b>					Prepared: 04/13/16 Analyzed: 04/14/16					
Total Kjeldahl Nitrogen	2.95	1.0	mg/L	2.98		99.0	80-120			
<b>LCS Dup (AD63176-BSD1)</b>					Prepared: 04/13/16 Analyzed: 04/14/16					
Total Kjeldahl Nitrogen	2.95	1.0	mg/L	2.98		99.0	80-120	0.00	20	
<b>Matrix Spike (AD63176-MS1)</b>		<b>Source: 16D0900-01</b>			Prepared & Analyzed: 04/14/16					
Total Kjeldahl Nitrogen	82.7	1.0	mg/L	22.6	55.3	121	75-125			
<b>Matrix Spike Dup (AD63176-MSD1)</b>		<b>Source: 16D0900-01</b>			Prepared & Analyzed: 04/14/16					
Total Kjeldahl Nitrogen	82.7	1.0	mg/L	22.6	55.3	121	75-125	0.00	20	

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500 Laurel Street  
Menlo Park, CA 94025

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

Reported:  
04/27/16 16:11

### 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
<b>Batch AD63192 - General Preparation</b>										
<b>Duplicate (AD63192-DUP1)</b>		<b>Source: 16D0977-01</b>		Prepared & Analyzed: 04/12/16						
Specific Conductance (EC)	153	20	umhos/cm		152			0.656	5	
<b>Batch AD63243 - General Preparation</b>										
<b>Blank (AD63243-BLK1)</b>				Prepared: 04/14/16 Analyzed: 04/18/16						
Total Dissolved Solids	ND	10	mg/L							
<b>Duplicate (AD63243-DUP1)</b>		<b>Source: 16D0912-01</b>		Prepared: 04/14/16 Analyzed: 04/18/16						
Total Dissolved Solids	780	10	mg/L		840			7.41	15	
<b>Duplicate (AD63243-DUP2)</b>		<b>Source: 16D1035-01</b>		Prepared: 04/14/16 Analyzed: 04/18/16						
Total Dissolved Solids	640	10	mg/L		600			6.45	15	
<b>Batch AD63254 - General Preparation</b>										
<b>Blank (AD63254-BLK1)</b>				Prepared: 04/14/16 Analyzed: 04/18/16						
Total Suspended Solids	ND	1.0	mg/L							
<b>Duplicate (AD63254-DUP1)</b>		<b>Source: 16D0889-01</b>		Prepared: 04/14/16 Analyzed: 04/18/16						
Total Suspended Solids	230	1.0	mg/L		264			13.8	30	
<b>Duplicate (AD63254-DUP2)</b>		<b>Source: 16D0892-01</b>		Prepared: 04/14/16 Analyzed: 04/18/16						
Total Suspended Solids	228	1.0	mg/L		218			4.48	30	
<b>Batch AD63291 - General Preparation</b>										
<b>Blank (AD63291-BLK1)</b>				Prepared & Analyzed: 04/20/16						
Silica	ND	1.0	mg/L							

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West Bay Sanitary District  
500 Laurel Street  
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Project Manager: John Simonetti  
Project: WQ Monitoring  
Project Number: Oak Avenue

Reported:  
04/27/16 16:11

### 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
<b>Batch AD63291 - General Preparation</b>										
<b>LCS (AD63291-BS1)</b>				Prepared & Analyzed: 04/20/16						
Silica	10.6	1.0	mg/L	10.0		106	85-115			
<b>LCS Dup (AD63291-BSD1)</b>				Prepared & Analyzed: 04/20/16						
Silica	11.0	1.0	mg/L	10.0		110	85-115	4.17	20	
<b>Duplicate (AD63291-DUP1)</b>				Source: 16D1431-01 Prepared & Analyzed: 04/20/16						
Silica	15.8	2.0	mg/L		15.7			0.518	20	
<b>Matrix Spike (AD63291-MS1)</b>				Source: 16D1431-01 Prepared & Analyzed: 04/20/16						
Silica	33.2	2.0	mg/L	20.0	15.7	87.1	80-120			
<b>Matrix Spike Dup (AD63291-MSD1)</b>				Source: 16D1431-01 Prepared & Analyzed: 04/20/16						
Silica	34.7	2.0	mg/L	20.0	15.7	94.9	80-120	4.58	20	
<b>Batch AD63368 - General Preparation</b>										
<b>Blank (AD63368-BLK1)</b>				Prepared: 04/12/16 Analyzed: 04/17/16						
Biochemical Oxygen Demand	ND	5.0	mg/L							
<b>Blank (AD63368-BLK2)</b>				Prepared: 04/12/16 Analyzed: 04/17/16						
Biochemical Oxygen Demand	ND	5.0	mg/L							
<b>LCS (AD63368-BS1)</b>				Prepared: 04/12/16 Analyzed: 04/17/16						
Biochemical Oxygen Demand	186	5.0	mg/L	200		92.8	84-115			
<b>Duplicate (AD63368-DUP1)</b>				Source: 16D0892-01 Prepared: 04/12/16 Analyzed: 04/17/16						
Biochemical Oxygen Demand	339	5.0	mg/L		327			3.60	30	

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

Reported:  
04/27/16 16:11

### 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
<b>Batch AD63386 - General Preparation</b>										
<b>Blank (AD63386-BLK1)</b>				Prepared & Analyzed: 04/19/16						
Ammonia as NH3	ND	0.50	mg/L							
<b>Blank (AD63386-BLK2)</b>				Prepared & Analyzed: 04/19/16						
Ammonia as NH3	ND	0.50	mg/L							
<b>LCS (AD63386-BS1)</b>				Prepared & Analyzed: 04/19/16						
Ammonia as NH3	5.85	0.50	mg/L	6.10		96.0	90-110			
<b>LCS Dup (AD63386-BSD1)</b>				Prepared & Analyzed: 04/19/16						
Ammonia as NH3	5.96	0.50	mg/L	6.10		97.7	90-110	1.81	10	
<b>Matrix Spike (AD63386-MS1)</b>				<b>Source: 16D0958-02</b>		Prepared: 04/19/16 Analyzed: 04/20/16				
Ammonia as NH3	11.9	0.50	mg/L	12.2	ND	97.7	85-115			
<b>Matrix Spike Dup (AD63386-MSD1)</b>				<b>Source: 16D0958-02</b>		Prepared: 04/19/16 Analyzed: 04/20/16				
Ammonia as NH3	11.5	0.50	mg/L	12.2	ND	94.2	85-115	3.64	20	
<b>Batch AD63470 - General Prep</b>										
<b>Blank (AD63470-BLK1)</b>				Prepared & Analyzed: 04/21/16						
Phosphorus, total	ND	0.040	mg/L							
<b>LCS (AD63470-BS1)</b>				Prepared & Analyzed: 04/21/16						
Phosphorus, total	0.199	0.040	mg/L	0.200		99.6	85-115			
<b>Duplicate (AD63470-DUP1)</b>				<b>Source: 16D0889-01</b>		Prepared & Analyzed: 04/21/16				
Phosphorus, total	9.03	2.0	mg/L		9.10			0.734	20	

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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:  
04/27/16 16:11

**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
<b>Batch AD63470 - General Prep</b>										
<b>Matrix Spike (AD63470-MS1)</b>		<b>Source: 16D0889-01</b>			Prepared & Analyzed: 04/21/16					
Phosphorus, total	10.4	2.0	mg/L	2.00	9.10	66.5	70-130			QM-4X
<b>Matrix Spike Dup (AD63470-MSD1)</b>		<b>Source: 16D0889-01</b>			Prepared & Analyzed: 04/21/16					
Phosphorus, total	10.4	2.0	mg/L	2.00	9.10	63.2	70-130	0.640	20	QM-4X



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

Reported:  
04/27/16 16:11

### 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
<b>Batch AD63154 - General Preparation</b>										
<b>Blank (AD63154-BLK1)</b>				Prepared & Analyzed: 04/12/16						
Chloride	ND	0.50	mg/L							
Nitrite as NO2	ND	1.0	mg/L							
Nitrate as NO3	ND	1.0	mg/L							
Nitrate as N	ND	0.20	mg/L							
Nitrite as N	ND	0.20	mg/L							
<b>LCS (AD63154-BS1)</b>				Prepared & Analyzed: 04/12/16						
Chloride	11.4	0.50	mg/L	11.1		102	90-110			
Nitrite as NO2	17.3	1.0	mg/L	18.2		95.1	90-110			
Nitrate as NO3	25	1.0	mg/L	24.7		103	90-110			
Nitrate as N	5.71	0.20	mg/L	5.56		103	90-110			
Nitrite as N	5.27	0.20	mg/L	5.56		94.8	90-110			
<b>Duplicate (AD63154-DUP1)</b>				<b>Source: 16D0857-01</b>			Prepared & Analyzed: 04/12/16			
Nitrate as NO3	ND	1.0	mg/L		ND			14.5	20	
Chloride	4.42	0.50	mg/L		4.44			0.361	20	
Nitrate as N	ND	0.20	mg/L		ND			14.5	20	
Nitrite as NO2	ND	1.0	mg/L		ND				20	
Nitrite as N	ND	0.20	mg/L		ND				20	
<b>Matrix Spike (AD63154-MS1)</b>				<b>Source: 16D0857-01</b>			Prepared & Analyzed: 04/12/16			
Chloride	15.9	0.50	mg/L	11.1	4.44	103	80-120			
Nitrate as NO3	26	1.0	mg/L	24.7	ND	106	80-120			
Nitrate as N	5.96	0.20	mg/L	5.56	ND	106	80-120			
Nitrite as N	5.45	0.20	mg/L	5.56	ND	97.1	80-120			
Nitrite as NO2	17.9	1.0	mg/L	18.2	ND	97.4	80-120			
<b>Matrix Spike (AD63154-MS2)</b>				<b>Source: 16D0875-01</b>			Prepared & Analyzed: 04/12/16			
Chloride	91.3	5.0	mg/L	11.1	80.5	96.9	80-120			
Nitrate as NO3	26	10	mg/L	24.7	ND	86.2	80-120			
Nitrate as N	5.87	2.0	mg/L	5.56	ND	86.4	80-120			
Nitrite as NO2	15.3	10	mg/L	18.2	ND	83.9	80-120			
Nitrite as N	4.64	2.0	mg/L	5.56	ND	83.6	80-120			

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Menlo Park, CA 94025

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

Reported:  
04/27/16 16:11

**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 AD63154 - General Preparation**

**Matrix Spike Dup (AD63154-MSD1)**

**Source: 16D0857-01**

Prepared & Analyzed: 04/12/16

Chloride	16.0	0.50	mg/L	11.1	4.44	104	80-120	0.216	20	
Nitrate as NO3	27	1.0	mg/L	24.7	ND	107	80-120	0.705	20	
Nitrite as NO2	18.0	1.0	mg/L	18.2	ND	97.8	80-120	0.387	20	
Nitrite as N	5.47	0.20	mg/L	5.56	ND	97.5	80-120	0.387	20	
Nitrate as N	6.00	0.20	mg/L	5.56	ND	107	80-120	0.705	20	



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Reported:  
04/27/16 16:11

#### 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-14 Residual chlorine, dissolved oxygen, and pH must be analyzed in the field to meet the EPA specified 15 minute hold time.
- T-17 Sample analyzed outside of recommended hold time. Client notified.
- 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

Company/Name: West Bay Sanitary District		Project ID: <b>WQ Monitoring</b>		Signature below authorizes work under terms stated on reverse side.										Analysis Request		Sample Notes		TAT														
Mailing Address: 500 Laurel Street Menlo Park, CA 94025		Project No: <b>Oak Avenue</b>												3.9 4.6 C		<input type="radio"/> 24 hr <input type="radio"/> 48 hr <input type="radio"/> Lab Approval Required <input type="radio"/> 1 wk <input type="radio"/> 2 wk (standard)		Lab Approval Required For Rush														
Project Contact & Email (Hardcopy or PDF to): John Simonetti jsimonetti@westbaysanitary.org		PO#																														
Phone/Fax: <u>650-321-0384</u>		Site Contact: <u>John Simonetti</u>																														
Field Sampler - Print Name & Signature <u>Joe P. [Signature]</u>		Sample Collection		Container		Preservative		Matrix																								
Sample Identification		Date Time		40ml Vial	Poly	Glass	Sleeve	Other	HCL	HNO3	H2SO4	Other	None	Water	Soil	Other	DU BOD	DU pH	200.7 - B, Ca, Mg, Na	Ammonia, Phosphorus	Total Nitrogen	Chloride, EC, NO2, NO3	Alkalinity, Bicarbonate	SAR Adjusted Calculation	Silica	TDS	TSS					
Oak Avenue		4/10/16 0800		4						1	1			2	x		x	x	x	x	x	x	x	x	x	x	x					





*Alpha*

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ELAP Certificates 1551, 2728, and 2922

27 April 2016

West Bay Sanitary District

Attn: John Simonetti

500 Laurel Street

Menlo Park, CA 94025

RE: WQ Monitoring

Work Order: 16D0900

Enclosed are the results of analyses for samples received by the laboratory on 04/11/16 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  
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Menlo Park, CA 94025

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

Reported:  
04/27/16 13:02

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Oak Avenue	16D0900-01	Water	04/11/16 09:00	04/11/16 21:15



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

Reported:  
04/27/16 13:02

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
<b>Oak Avenue (16D0900-01)</b>								
<b>Sample Type: Water</b>								
<b>Sampled: 04/11/16 09:00</b>								
<b>Metals by EPA 200 Series Methods</b>								
Boron	0.43 mg/L	0.050	1	AD63405	04/19/16 14:08	04/26/16 14:22	EPA 200.7	
Calcium	35 mg/L	1.0	1	AD63405	04/19/16 14:08	04/26/16 14:22	EPA 200.7	
Magnesium	20 mg/L	1.0	1	AD63405	04/19/16 14:08	04/26/16 14:22	EPA 200.7	
Sodium	50 mg/L	1.0	1	AD63405	04/19/16 14:08	04/26/16 14:22	EPA 200.7	
<b>Conventional Chemistry Parameters by APHA/EPA Methods</b>								
Ammonia as NH3	66 mg/L	0.50	1	AD63386	04/19/16 08:43	04/19/16 11:25	SM4500NH3C	
Bicarbonate	350 mg/L	5.0	1	AD63111	04/13/16 08:00	04/13/16 17:00	SM2320B	
Biochemical Oxygen Demand	240 mg/L	5.0	1	AD63375	04/13/16 06:00	04/18/16 12:00	SM5210B	
pH	7.47 pH Units	1.68	1	AD63164	04/11/16 18:00	04/11/16 18:00	SM4500-H+ B	T-14
Specific Conductance (EC)	950 umhos/cm	20	1	AD63192	04/12/16 17:00	04/12/16 17:00	SM2510B	
Total Dissolved Solids	420 mg/L	10	1	AD63272	04/14/16 13:32	04/18/16 12:00	SM2540C	
Total Suspended Solids	400 mg/L	1.0	1	AD63254	04/14/16 15:00	04/18/16 10:00	SM2540D	
Silica	21 mg/L	2.0	2	AD63291	04/20/16 11:30	04/20/16 16:00	SM4500-SiO2 C	
Bicarbonate Alkalinity as CaCO3	290 mg/L	5.0	1	AD63111	04/13/16 08:00	04/13/16 17:00	SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AD63111	04/13/16 08:00	04/13/16 17:00	SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AD63111	04/13/16 08:00	04/13/16 17:00	SM2320B	
Total Alkalinity as CaCO3	290 mg/L	5.0	1	AD63111	04/13/16 08:00	04/13/16 17:00	SM2320B	
Total Kjeldahl Nitrogen	55 mg/L	1.0	1	AD63176	04/14/16 06:18	04/14/16 14:56	SM4500-Norg B	
Total Nitrogen	55 mg/L	1.0	1	AD63202	04/13/16 10:05	04/21/16 16:16	SM4500-N	
Phosphorus, total	7.6 mg/L	2.0	5	AD63470	04/21/16 08:30	04/21/16 13:58	SM4500-PE	
<b>Miscellaneous Physical/Conventional Chemistry Parameters</b>								
Sodium Adsorption Ratio-Adj RNA	1.94 NA		1	AD63405	04/19/16 14:08	04/27/16 11:23	SAR	



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500 Laurel Street  
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Project Manager: John Simonetti  
Project: WQ Monitoring  
Project Number: Oak Avenue

Reported:  
04/27/16 13:02

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
<b>Oak Avenue (16D0900-01)</b>								
				<b>Sample Type: Water</b>		<b>Sampled: 04/11/16 09:00</b>		
<b>Anions by EPA Method 300.0</b>								
<b>Chloride</b>	<b>53 mg/L</b>	<b>12</b>	25	AD63154	04/12/16 14:29	04/12/16 14:29	EPA 300.0	
Nitrate as N	ND mg/L	0.20	1	AD63154	04/12/16 14:29	04/12/16 14:29	EPA 300.0	
Nitrate as NO3	ND mg/L	1.0	1	AD63154	04/12/16 14:29	04/12/16 14:29	EPA 300.0	
Nitrite as N	ND mg/L	0.20	1	AD63154	04/12/16 14:29	04/12/16 14:29	EPA 300.0	
Nitrite as NO2	ND mg/L	1.0	1	AD63154	04/12/16 14:29	04/12/16 14:29	EPA 300.0	



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Project: WQ Monitoring  
Project Number: Oak Avenue

Reported:  
04/27/16 13:02

### 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
<b>Batch AD63405 - Metals Digest</b>										
<b>Blank (AD63405-BLK1)</b>				Prepared: 04/19/16 Analyzed: 04/21/16						
Boron	ND	0.050	mg/L							
Calcium	ND	1.0	mg/L							
Magnesium	ND	1.0	mg/L							
Sodium	ND	1.0	mg/L							
<b>LCS (AD63405-BS1)</b>				Prepared: 04/19/16 Analyzed: 04/21/16						
Boron	0.410	0.050	mg/L	0.400		103	85-115			
Calcium	7.25	1.0	mg/L	8.00		90.6	85-115			
Magnesium	7.19	1.0	mg/L	8.00		89.9	85-115			
Sodium	7.51	1.0	mg/L	8.00		93.9	85-115			
<b>Duplicate (AD63405-DUP1)</b>				<b>Source: 16D0899-02</b> Prepared: 04/19/16 Analyzed: 04/21/16						
Boron	0.213	0.050	mg/L		0.204			4.15	20	
Calcium	24.2	1.0	mg/L		24.4			0.580	20	
Magnesium	1.44	1.0	mg/L		1.39			3.51	20	
Sodium	329	1.0	mg/L		346			5.13	20	
<b>Matrix Spike (AD63405-MS1)</b>				<b>Source: 16D0899-02</b> Prepared: 04/19/16 Analyzed: 04/21/16						
Boron	0.606	0.050	mg/L	0.400	0.204	100	70-130			
Calcium	32.1	1.0	mg/L	8.00	24.4	96.6	70-130			
Magnesium	8.94	1.0	mg/L	8.00	1.39	94.4	70-130			
Sodium	336	1.0	mg/L	8.00	346	NR	70-130			QM-4X
<b>Matrix Spike (AD63405-MS2)</b>				<b>Source: 16D0791-02</b> Prepared: 04/19/16 Analyzed: 04/21/16						
Boron	0.403	0.050	mg/L	0.400	ND	101	70-130			
Calcium	8.04	1.0	mg/L	8.00	ND	95.9	70-130			
Magnesium	7.72	1.0	mg/L	8.00	ND	95.6	70-130			
Sodium	7.99	1.0	mg/L	8.00	ND	98.0	70-130			

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

Reported:  
04/27/16 13:02

**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
<b>Batch AD63405 - Metals Digest</b>										
<b>Matrix Spike Dup (AD63405-MSD1)</b>	<b>Source: 16D0899-02</b>				Prepared: 04/19/16		Analyzed: 04/21/16			
Boron	0.570	0.050	mg/L	0.400	0.204	91.6	70-130	6.01	20	
Calcium	32.5	1.0	mg/L	8.00	24.4	102	70-130	1.28	20	
Magnesium	8.54	1.0	mg/L	8.00	1.39	89.4	70-130	4.55	20	
Sodium	347	1.0	mg/L	8.00	346	3.12	70-130	3.10	20	QM-4X



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Project Manager: John Simonetti  
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Project Number: Oak Avenue

Reported:  
04/27/16 13:02

### 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
<b>Batch AD63111 - General Preparation</b>										
<b>Duplicate (AD63111-DUP1)</b>		<b>Source: 16D0865-01</b>			Prepared & Analyzed: 04/13/16					
Bicarbonate	26.8	5.0	mg/L		26.8			0.00	20	
Bicarbonate Alkalinity as CaCO3	22.0	5.0	mg/L		22.0			0.00	20	
Carbonate Alkalinity as CaCO3	ND	5.0	mg/L		ND				20	
Hydroxide Alkalinity as CaCO3	ND	5.0	mg/L		ND				20	
Total Alkalinity as CaCO3	22.0	5.0	mg/L		22.0			0.00	20	
<b>Batch AD63164 - General Preparation</b>										
<b>Duplicate (AD63164-DUP1)</b>		<b>Source: 16D0794-01</b>			Prepared & Analyzed: 04/11/16					
pH	7.43	1.68	pH Units		7.46			0.403	20	
<b>Batch AD63176 - General Prep</b>										
<b>LCS (AD63176-BS1)</b>					Prepared: 04/13/16 Analyzed: 04/14/16					
Total Kjeldahl Nitrogen	2.95	1.0	mg/L	2.98		99.0	80-120			
<b>LCS Dup (AD63176-BSD1)</b>					Prepared: 04/13/16 Analyzed: 04/14/16					
Total Kjeldahl Nitrogen	2.95	1.0	mg/L	2.98		99.0	80-120	0.00	20	
<b>Matrix Spike (AD63176-MS1)</b>		<b>Source: 16D0900-01</b>			Prepared & Analyzed: 04/14/16					
Total Kjeldahl Nitrogen	82.7	1.0	mg/L	22.6	55.3	121	75-125			
<b>Matrix Spike Dup (AD63176-MSD1)</b>		<b>Source: 16D0900-01</b>			Prepared & Analyzed: 04/14/16					
Total Kjeldahl Nitrogen	82.7	1.0	mg/L	22.6	55.3	121	75-125	0.00	20	

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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:  
04/27/16 13:02

### 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
<b>Batch AD63192 - General Preparation</b>										
<b>Duplicate (AD63192-DUP1)</b>		<b>Source: 16D0977-01</b>		Prepared & Analyzed: 04/12/16						
Specific Conductance (EC)	153	20	umhos/cm		152			0.656	5	
<b>Batch AD63254 - General Preparation</b>										
<b>Blank (AD63254-BLK1)</b>				Prepared: 04/14/16 Analyzed: 04/18/16						
Total Suspended Solids	ND	1.0	mg/L							
<b>Duplicate (AD63254-DUP1)</b>		<b>Source: 16D0889-01</b>		Prepared: 04/14/16 Analyzed: 04/18/16						
Total Suspended Solids	230	1.0	mg/L		264			13.8	30	
<b>Duplicate (AD63254-DUP2)</b>		<b>Source: 16D0892-01</b>		Prepared: 04/14/16 Analyzed: 04/18/16						
Total Suspended Solids	228	1.0	mg/L		218			4.48	30	
<b>Batch AD63272 - General Preparation</b>										
<b>Blank (AD63272-BLK1)</b>				Prepared: 04/14/16 Analyzed: 04/18/16						
Total Dissolved Solids	ND	10	mg/L							
<b>Duplicate (AD63272-DUP1)</b>		<b>Source: 16D1025-01</b>		Prepared: 04/14/16 Analyzed: 04/18/16						
Total Dissolved Solids	1420	10	mg/L		1430			0.560	15	
<b>Duplicate (AD63272-DUP2)</b>		<b>Source: 16D1183-01</b>		Prepared: 04/14/16 Analyzed: 04/18/16						
Total Dissolved Solids	331	10	mg/L		356			7.28	15	
<b>Batch AD63291 - General Preparation</b>										
<b>Blank (AD63291-BLK1)</b>				Prepared & Analyzed: 04/20/16						
Silica	ND	1.0	mg/L							

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Project: WQ Monitoring  
Project Number: Oak Avenue

Reported:  
04/27/16 13:02

### 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
<b>Batch AD63291 - General Preparation</b>										
<b>LCS (AD63291-BS1)</b>				Prepared & Analyzed: 04/20/16						
Silica	10.6	1.0	mg/L	10.0		106	85-115			
<b>LCS Dup (AD63291-BSD1)</b>				Prepared & Analyzed: 04/20/16						
Silica	11.0	1.0	mg/L	10.0		110	85-115	4.17	20	
<b>Duplicate (AD63291-DUP1)</b>				Source: 16D1431-01 Prepared & Analyzed: 04/20/16						
Silica	15.8	2.0	mg/L		15.7			0.518	20	
<b>Matrix Spike (AD63291-MS1)</b>				Source: 16D1431-01 Prepared & Analyzed: 04/20/16						
Silica	33.2	2.0	mg/L	20.0	15.7	87.1	80-120			
<b>Matrix Spike Dup (AD63291-MSD1)</b>				Source: 16D1431-01 Prepared & Analyzed: 04/20/16						
Silica	34.7	2.0	mg/L	20.0	15.7	94.9	80-120	4.58	20	
<b>Batch AD63375 - General Preparation</b>										
<b>Blank (AD63375-BLK1)</b>				Prepared: 04/13/16 Analyzed: 04/18/16						
Biochemical Oxygen Demand	ND	5.0	mg/L							
<b>Blank (AD63375-BLK2)</b>				Prepared: 04/13/16 Analyzed: 04/18/16						
Biochemical Oxygen Demand	ND	5.0	mg/L							
<b>LCS (AD63375-BS1)</b>				Prepared: 04/12/16 Analyzed: 04/17/16						
Biochemical Oxygen Demand	186	5.0	mg/L	200		92.8	84-115			
<b>Duplicate (AD63375-DUP1)</b>				Source: 16D1048-01 Prepared: 04/13/16 Analyzed: 04/18/16						
Biochemical Oxygen Demand	370	5.0	mg/L		356			3.86	30	

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

Reported:  
04/27/16 13:02

### 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
<b>Batch AD63386 - General Preparation</b>										
<b>Blank (AD63386-BLK1)</b>				Prepared & Analyzed: 04/19/16						
Ammonia as NH3	ND	0.50	mg/L							
<b>Blank (AD63386-BLK2)</b>				Prepared & Analyzed: 04/19/16						
Ammonia as NH3	ND	0.50	mg/L							
<b>LCS (AD63386-BS1)</b>				Prepared & Analyzed: 04/19/16						
Ammonia as NH3	5.85	0.50	mg/L	6.10		96.0	90-110			
<b>LCS Dup (AD63386-BSD1)</b>				Prepared & Analyzed: 04/19/16						
Ammonia as NH3	5.96	0.50	mg/L	6.10		97.7	90-110	1.81	10	
<b>Matrix Spike (AD63386-MS1)</b>				<b>Source: 16D0958-02</b>		Prepared: 04/19/16 Analyzed: 04/20/16				
Ammonia as NH3	11.9	0.50	mg/L	12.2	ND	97.7	85-115			
<b>Matrix Spike Dup (AD63386-MSD1)</b>				<b>Source: 16D0958-02</b>		Prepared: 04/19/16 Analyzed: 04/20/16				
Ammonia as NH3	11.5	0.50	mg/L	12.2	ND	94.2	85-115	3.64	20	
<b>Batch AD63470 - General Prep</b>										
<b>Blank (AD63470-BLK1)</b>				Prepared & Analyzed: 04/21/16						
Phosphorus, total	ND	0.040	mg/L							
<b>LCS (AD63470-BS1)</b>				Prepared & Analyzed: 04/21/16						
Phosphorus, total	0.199	0.040	mg/L	0.200		99.6	85-115			
<b>Duplicate (AD63470-DUP1)</b>				<b>Source: 16D0889-01</b>		Prepared & Analyzed: 04/21/16				
Phosphorus, total	9.03	2.0	mg/L		9.10			0.734	20	

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Reported:  
04/27/16 13:02

**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
<b>Batch AD63470 - General Prep</b>										
<b>Matrix Spike (AD63470-MS1)</b>		<b>Source: 16D0889-01</b>			Prepared & Analyzed: 04/21/16					
Phosphorus, total	10.4	2.0	mg/L	2.00	9.10	66.5	70-130			QM-4X
<b>Matrix Spike Dup (AD63470-MSD1)</b>		<b>Source: 16D0889-01</b>			Prepared & Analyzed: 04/21/16					
Phosphorus, total	10.4	2.0	mg/L	2.00	9.10	63.2	70-130	0.640	20	QM-4X



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Reported:  
04/27/16 13:02

### 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
<b>Batch AD63154 - General Preparation</b>										
<b>Blank (AD63154-BLK1)</b>				Prepared & Analyzed: 04/12/16						
Chloride	ND	0.50	mg/L							
Nitrite as NO2	ND	1.0	mg/L							
Nitrate as NO3	ND	1.0	mg/L							
Nitrate as N	ND	0.20	mg/L							
Nitrite as N	ND	0.20	mg/L							
<b>LCS (AD63154-BS1)</b>				Prepared & Analyzed: 04/12/16						
Chloride	11.4	0.50	mg/L	11.1		102	90-110			
Nitrite as NO2	17.3	1.0	mg/L	18.2		95.1	90-110			
Nitrate as NO3	25	1.0	mg/L	24.7		103	90-110			
Nitrate as N	5.71	0.20	mg/L	5.56		103	90-110			
Nitrite as N	5.27	0.20	mg/L	5.56		94.8	90-110			
<b>Duplicate (AD63154-DUP1)</b>				<b>Source: 16D0857-01</b>			Prepared & Analyzed: 04/12/16			
Nitrate as NO3	ND	1.0	mg/L		ND			14.5	20	
Chloride	4.42	0.50	mg/L		4.44			0.361	20	
Nitrate as N	ND	0.20	mg/L		ND			14.5	20	
Nitrite as NO2	ND	1.0	mg/L		ND				20	
Nitrite as N	ND	0.20	mg/L		ND				20	
<b>Matrix Spike (AD63154-MS1)</b>				<b>Source: 16D0857-01</b>			Prepared & Analyzed: 04/12/16			
Chloride	15.9	0.50	mg/L	11.1	4.44	103	80-120			
Nitrate as NO3	26	1.0	mg/L	24.7	ND	106	80-120			
Nitrate as N	5.96	0.20	mg/L	5.56	ND	106	80-120			
Nitrite as N	5.45	0.20	mg/L	5.56	ND	97.1	80-120			
Nitrite as NO2	17.9	1.0	mg/L	18.2	ND	97.4	80-120			
<b>Matrix Spike (AD63154-MS2)</b>				<b>Source: 16D0875-01</b>			Prepared & Analyzed: 04/12/16			
Chloride	91.3	5.0	mg/L	11.1	80.5	96.9	80-120			
Nitrate as NO3	26	10	mg/L	24.7	ND	86.2	80-120			
Nitrate as N	5.87	2.0	mg/L	5.56	ND	86.4	80-120			
Nitrite as NO2	15.3	10	mg/L	18.2	ND	83.9	80-120			
Nitrite as N	4.64	2.0	mg/L	5.56	ND	83.6	80-120			

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Project: WQ Monitoring  
Project Number: Oak Avenue

Reported:  
04/27/16 13:02

**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 AD63154 - General Preparation**

**Matrix Spike Dup (AD63154-MSD1)**

**Source: 16D0857-01**

Prepared & Analyzed: 04/12/16

Chloride	16.0	0.50	mg/L	11.1	4.44	104	80-120	0.216	20	
Nitrate as NO3	27	1.0	mg/L	24.7	ND	107	80-120	0.705	20	
Nitrite as NO2	18.0	1.0	mg/L	18.2	ND	97.8	80-120	0.387	20	
Nitrite as N	5.47	0.20	mg/L	5.56	ND	97.5	80-120	0.387	20	
Nitrate as N	6.00	0.20	mg/L	5.56	ND	107	80-120	0.705	20	



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Reported:  
04/27/16 13:02

#### 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-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





*Alpha*

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ELAP Certificates 1551, 2728, and 2922

28 April 2016

West Bay Sanitary District

Attn: John Simonetti

500 Laurel Street

Menlo Park, CA 94025

RE: WQ Monitoring

Work Order: 16D1048

Enclosed are the results of analyses for samples received by the laboratory on 04/12/16 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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Project Manager: John Simonetti  
Project: WQ Monitoring  
Project Number: Oak Avenue

Reported:  
04/28/16 09:21

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Oak Avenue	16D1048-01	Water	04/12/16 09:00	04/12/16 21:40



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Project Number: Oak Avenue

Reported:  
04/28/16 09:21

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
<b>Oak Avenue (16D1048-01)</b>		<b>Sample Type: Water</b>			<b>Sampled: 04/12/16 09:00</b>			
<b>Metals by EPA 200 Series Methods</b>								
Boron	0.39 mg/L	0.050	1	AD63459	04/20/16 14:44	04/27/16 15:09	EPA 200.7	
Calcium	44 mg/L	1.0	1	AD63459	04/20/16 14:44	04/27/16 15:09	EPA 200.7	
Magnesium	23 mg/L	1.0	1	AD63459	04/20/16 14:44	04/27/16 15:09	EPA 200.7	
Sodium	91 mg/L	1.0	1	AD63459	04/20/16 14:44	04/27/16 15:09	EPA 200.7	
<b>Conventional Chemistry Parameters by APHA/EPA Methods</b>								
Ammonia as NH3	60 mg/L	0.50	1	AD63640	04/27/16 08:30	04/27/16 16:00	SM4500NH3C	
Bicarbonate	400 mg/L	5.0	1	AD63217	04/15/16 12:00	04/15/16 17:00	SM2320B	
Biochemical Oxygen Demand	360 mg/L	5.0	1	AD63375	04/13/16 06:00	04/18/16 12:00	SM5210B	
pH	7.60 pH Units	1.68	1	AD63210	04/12/16 18:40	04/12/16 18:40	SM4500-H+ B	T-14
Specific Conductance (EC)	1200 umhos/cm	20	1	AD63350	04/13/16 17:00	04/18/16 11:16	SM2510B	
Total Dissolved Solids	600 mg/L	10	1	AD63330	04/18/16 10:30	04/21/16 15:30	SM2540C	
Total Suspended Solids	780 mg/L	1.0	1	AD63254	04/14/16 15:00	04/18/16 10:00	SM2540D	
Silica	23 mg/L	2.0	2	AD63291	04/20/16 11:30	04/20/16 16:00	SM4500-SiO2 C	
Bicarbonate Alkalinity as CaCO3	330 mg/L	5.0	1	AD63217	04/15/16 12:00	04/15/16 17:00	SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AD63217	04/15/16 12:00	04/15/16 17:00	SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AD63217	04/15/16 12:00	04/15/16 17:00	SM2320B	
Total Alkalinity as CaCO3	330 mg/L	5.0	1	AD63217	04/15/16 12:00	04/15/16 17:00	SM2320B	
Total Kjeldahl Nitrogen	62 mg/L	1.0	1	AD63416	04/21/16 06:29	04/21/16 14:26	SM4500-Norg B	
Total Nitrogen	62 mg/L	1.0	1	AD63202	04/13/16 10:05	04/21/16 16:16	SM4500-N	
Phosphorus, total	9.6 mg/L	2.0	5	AD63470	04/21/16 08:30	04/21/16 13:58	SM4500-PE	
<b>Miscellaneous Physical/Conventional Chemistry Parameters</b>								
Sodium Adsorption Ratio-Adj RNA	3.31 NA		1	AD63459	04/20/16 14:44	04/28/16 05:32	SAR	



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

Reported:  
04/28/16 09:21

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
<b>Oak Avenue (16D1048-01)</b>								
				<b>Sample Type: Water</b>		<b>Sampled: 04/12/16 09:00</b>		
<b>Anions by EPA Method 300.0</b>								
<b>Chloride</b>	<b>110 mg/L</b>		<b>12</b>	25	AD63185	04/13/16 18:02	04/13/16 18:02	EPA 300.0
Nitrate as N	ND mg/L	0.20	1	1	AD63185	04/13/16 18:18	04/13/16 18:18	EPA 300.0
Nitrate as NO3	ND mg/L	1.0	1	1	AD63185	04/13/16 18:18	04/13/16 18:18	EPA 300.0
Nitrite as N	ND mg/L	0.20	1	1	AD63185	04/13/16 18:18	04/13/16 18:18	EPA 300.0
Nitrite as NO2	ND mg/L	1.0	1	1	AD63185	04/13/16 14:06	04/13/16 14:06	EPA 300.0



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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:  
04/28/16 09:21

### 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
<b>Batch AD63459 - Metals Digest</b>										
<b>Blank (AD63459-BLK1)</b>				Prepared: 04/20/16 Analyzed: 04/21/16						
Boron	ND	0.050	mg/L							
Calcium	ND	1.0	mg/L							
Magnesium	ND	1.0	mg/L							
Sodium	ND	1.0	mg/L							
<b>LCS (AD63459-BS1)</b>				Prepared: 04/20/16 Analyzed: 04/21/16						
Boron	0.360	0.050	mg/L	0.400		90.1	85-115			
Calcium	7.37	1.0	mg/L	8.00		92.2	85-115			
Magnesium	7.42	1.0	mg/L	8.00		92.8	85-115			
Sodium	7.68	1.0	mg/L	8.00		95.9	85-115			
<b>Duplicate (AD63459-DUP1)</b>				<b>Source: 16D0915-01</b> Prepared: 04/20/16 Analyzed: 04/21/16						
Boron	0.148	0.050	mg/L		0.131			12.2	20	
Calcium	12.5	1.0	mg/L		12.4			1.45	20	
Magnesium	5.01	1.0	mg/L		4.94			1.51	20	
Sodium	117	1.0	mg/L		115			1.27	20	
<b>Matrix Spike (AD63459-MS1)</b>				<b>Source: 16D0915-01</b> Prepared: 04/20/16 Analyzed: 04/21/16						
Boron	0.479	0.050	mg/L	0.400	0.131	86.8	70-130			
Calcium	19.8	1.0	mg/L	8.00	12.4	93.2	70-130			
Magnesium	11.7	1.0	mg/L	8.00	4.94	84.5	70-130			
Sodium	120	1.0	mg/L	8.00	115	54.4	70-130			QM-4X
<b>Matrix Spike (AD63459-MS2)</b>				<b>Source: 16D1024-01</b> Prepared: 04/20/16 Analyzed: 04/21/16						
Boron	5.07	0.050	mg/L	0.400	4.71	89.9	70-130			
Calcium	13.3	1.0	mg/L	8.00	4.71	107	70-130			
Magnesium	8.49	1.0	mg/L	8.00	ND	95.4	70-130			
Sodium	135	1.0	mg/L	8.00	116	234	70-130			QM-4X

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04/28/16 09:21

**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
<b>Batch AD63459 - Metals Digest</b>										
<b>Matrix Spike Dup (AD63459-MSD1)</b>	<b>Source: 16D0915-01</b>				Prepared: 04/20/16		Analyzed: 04/21/16			
Boron	0.479	0.050	mg/L	0.400	0.131	86.9	70-130	0.0873	20	
Calcium	20.5	1.0	mg/L	8.00	12.4	101	70-130	3.29	20	
Magnesium	12.4	1.0	mg/L	8.00	4.94	93.5	70-130	5.95	20	
Sodium	125	1.0	mg/L	8.00	115	122	70-130	4.42	20	



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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
<b>Batch AD63210 - General Preparation</b>										
<b>Duplicate (AD63210-DUP1)</b>		<b>Source: 16D1099-01</b>			Prepared & Analyzed: 04/12/16					
pH	8.48	1.68	pH Units		8.56			0.939	20	
<b>Batch AD63217 - General Preparation</b>										
<b>Duplicate (AD63217-DUP1)</b>		<b>Source: 16D1096-05</b>			Prepared & Analyzed: 04/19/16					
Bicarbonate	537	5.0	mg/L		531			1.14	20	
Carbonate Alkalinity as CaCO <sub>3</sub>	ND	5.0	mg/L		ND				20	
Total Alkalinity as CaCO <sub>3</sub>	440	5.0	mg/L		435			1.14	20	
Hydroxide Alkalinity as CaCO <sub>3</sub>	ND	5.0	mg/L		ND				20	
Bicarbonate Alkalinity as CaCO <sub>3</sub>	440	5.0	mg/L		435			1.14	20	
<b>Batch AD63254 - General Preparation</b>										
<b>Blank (AD63254-BLK1)</b>					Prepared: 04/14/16 Analyzed: 04/18/16					
Total Suspended Solids	ND	1.0	mg/L							
<b>Duplicate (AD63254-DUP1)</b>		<b>Source: 16D0889-01</b>			Prepared: 04/14/16 Analyzed: 04/18/16					
Total Suspended Solids	230	1.0	mg/L		264			13.8	30	
<b>Duplicate (AD63254-DUP2)</b>		<b>Source: 16D0892-01</b>			Prepared: 04/14/16 Analyzed: 04/18/16					
Total Suspended Solids	228	1.0	mg/L		218			4.48	30	
<b>Batch AD63291 - General Preparation</b>										
<b>Blank (AD63291-BLK1)</b>					Prepared & Analyzed: 04/20/16					
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
<b>Batch AD63291 - General Preparation</b>										
<b>LCS (AD63291-BS1)</b>				Prepared & Analyzed: 04/20/16						
Silica	10.6	1.0	mg/L	10.0		106	85-115			
<b>LCS Dup (AD63291-BSD1)</b>				Prepared & Analyzed: 04/20/16						
Silica	11.0	1.0	mg/L	10.0		110	85-115	4.17	20	
<b>Duplicate (AD63291-DUP1)</b>				Source: 16D1431-01 Prepared & Analyzed: 04/20/16						
Silica	15.8	2.0	mg/L		15.7			0.518	20	
<b>Matrix Spike (AD63291-MS1)</b>				Source: 16D1431-01 Prepared & Analyzed: 04/20/16						
Silica	33.2	2.0	mg/L	20.0	15.7	87.1	80-120			
<b>Matrix Spike Dup (AD63291-MSD1)</b>				Source: 16D1431-01 Prepared & Analyzed: 04/20/16						
Silica	34.7	2.0	mg/L	20.0	15.7	94.9	80-120	4.58	20	
<b>Batch AD63330 - General Preparation</b>										
<b>Blank (AD63330-BLK1)</b>				Prepared: 04/18/16 Analyzed: 04/21/16						
Total Dissolved Solids	ND	10	mg/L							
<b>Duplicate (AD63330-DUP1)</b>				Source: 16D1096-03 Prepared: 04/18/16 Analyzed: 04/21/16						
Total Dissolved Solids	1780	10	mg/L		1800			1.56	15	
<b>Duplicate (AD63330-DUP2)</b>				Source: 16D1239-05 Prepared: 04/18/16 Analyzed: 04/21/16						
Total Dissolved Solids	1310	10	mg/L		1300			0.306	15	
<b>Batch AD63350 - General Preparation</b>										
<b>Duplicate (AD63350-DUP1)</b>				Source: 16D1128-01 Prepared: 04/13/16 Analyzed: 04/18/16						
Specific Conductance (EC)	322	20	umhos/cm		320			0.623	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
<b>Batch AD63375 - General Preparation</b>										
<b>Blank (AD63375-BLK1)</b> Prepared: 04/13/16 Analyzed: 04/18/16										
Biochemical Oxygen Demand	ND	5.0	mg/L							
<b>Blank (AD63375-BLK2)</b> Prepared: 04/13/16 Analyzed: 04/18/16										
Biochemical Oxygen Demand	ND	5.0	mg/L							
<b>LCS (AD63375-BS1)</b> Prepared: 04/12/16 Analyzed: 04/17/16										
Biochemical Oxygen Demand	186	5.0	mg/L	200		92.8	84-115			
<b>Duplicate (AD63375-DUP1)</b> Source: 16D1048-01 Prepared: 04/13/16 Analyzed: 04/18/16										
Biochemical Oxygen Demand	370	5.0	mg/L		356			3.86	30	
<b>Batch AD63416 - General Prep</b>										
<b>LCS (AD63416-BS1)</b> Prepared: 04/20/16 Analyzed: 04/21/16										
Total Kjeldahl Nitrogen	2.95	1.0	mg/L	2.98		99.0	80-120			
<b>LCS Dup (AD63416-BSD1)</b> Prepared: 04/20/16 Analyzed: 04/21/16										
Total Kjeldahl Nitrogen	2.95	1.0	mg/L	2.98		99.0	80-120	0.00	20	
<b>Matrix Spike (AD63416-MS1)</b> Source: 16D1503-01 Prepared: 04/20/16 Analyzed: 04/21/16										
Total Kjeldahl Nitrogen	53.9	1.0	mg/L	22.6	32.9	92.8	75-125			
<b>Matrix Spike Dup (AD63416-MSD1)</b> Source: 16D1503-01 Prepared: 04/20/16 Analyzed: 04/21/16										
Total Kjeldahl Nitrogen	53.9	1.0	mg/L	22.6	32.9	92.8	75-125	0.00	20	
<b>Batch AD63470 - General Prep</b>										
<b>Blank (AD63470-BLK1)</b> Prepared & Analyzed: 04/21/16										
Phosphorus, total	ND	0.040	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
<b>Batch AD63470 - General Prep</b>										
<b>LCS (AD63470-BS1)</b>				Prepared & Analyzed: 04/21/16						
Phosphorus, total	0.199	0.040	mg/L	0.200		99.6	85-115			
<b>Duplicate (AD63470-DUP1)</b>				Source: 16D0889-01 Prepared & Analyzed: 04/21/16						
Phosphorus, total	9.03	2.0	mg/L		9.10			0.734	20	
<b>Matrix Spike (AD63470-MS1)</b>				Source: 16D0889-01 Prepared & Analyzed: 04/21/16						
Phosphorus, total	10.4	2.0	mg/L	2.00	9.10	66.5	70-130			QM-4X
<b>Matrix Spike Dup (AD63470-MSD1)</b>				Source: 16D0889-01 Prepared & Analyzed: 04/21/16						
Phosphorus, total	10.4	2.0	mg/L	2.00	9.10	63.2	70-130	0.640	20	QM-4X
<b>Batch AD63640 - General Preparation</b>										
<b>Blank (AD63640-BLK1)</b>				Prepared & Analyzed: 04/26/16						
Ammonia as NH3	ND	0.50	mg/L							
<b>LCS (AD63640-BS1)</b>				Prepared & Analyzed: 04/26/16						
Ammonia as NH3	5.96	0.50	mg/L	6.10		97.7	90-110			
<b>LCS Dup (AD63640-BSD1)</b>				Prepared & Analyzed: 04/26/16						
Ammonia as NH3	5.85	0.50	mg/L	6.10		96.0	90-110	1.81	10	
<b>Matrix Spike (AD63640-MS1)</b>				Source: 16D1301-01 Prepared & Analyzed: 04/27/16						
Ammonia as NH3	6.07	0.50	mg/L	6.10	ND	99.5	85-115			
<b>Matrix Spike Dup (AD63640-MSD1)</b>				Source: 16D1301-01 Prepared & Analyzed: 04/27/16						
Ammonia as NH3	5.75	0.50	mg/L	6.10	ND	94.2	85-115	5.40	20	

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Reported:  
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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
<b>Batch AD63185 - General Preparation</b>										
<b>Blank (AD63185-BLK1)</b>				Prepared & Analyzed: 04/13/16						
Nitrite as NO2	ND	1.0	mg/L							
Chloride	ND	0.50	mg/L							
Nitrate as NO3	ND	1.0	mg/L							
Nitrate as N	ND	0.20	mg/L							
Nitrite as N	ND	0.20	mg/L							
<b>LCS (AD63185-BS1)</b>				Prepared & Analyzed: 04/13/16						
Nitrite as N	5.04	0.20	mg/L	5.00		101	90-110			
Chloride	10.3	0.50	mg/L	10.0		103	90-110			
Nitrate as NO3	23	1.0	mg/L	22.2		104	90-110			
Nitrate as N	5.20	0.20	mg/L	5.00		104	90-110			
Nitrite as NO2	16.6	1.0	mg/L	16.4		101	90-110			
<b>Duplicate (AD63185-DUP1)</b>				<b>Source: 16D1019-01</b>			Prepared & Analyzed: 04/13/16			
Nitrate as N	ND	0.20	mg/L		ND			0.877	20	
Nitrite as NO2	ND	1.0	mg/L		ND				20	
Chloride	4.49	0.50	mg/L		4.56			1.61	20	
Nitrate as NO3	ND	1.0	mg/L		ND			0.877	20	
Nitrite as N	ND	0.20	mg/L		ND				20	
<b>Matrix Spike (AD63185-MS1)</b>				<b>Source: 16D1019-01</b>			Prepared & Analyzed: 04/13/16			
Chloride	16.0	0.50	mg/L	11.1	4.56	103	80-120			
Nitrate as N	5.97	0.20	mg/L	5.56	ND	106	80-120			
Nitrite as NO2	19.0	1.0	mg/L	18.2	ND	104	80-120			
Nitrate as NO3	26	1.0	mg/L	24.7	ND	106	80-120			
Nitrite as N	5.77	0.20	mg/L	5.56	ND	104	80-120			
<b>Matrix Spike (AD63185-MS2)</b>				<b>Source: 16D1044-01</b>			Prepared & Analyzed: 04/13/16			
Chloride	48.4	2.5	mg/L	11.1	36.8	104	80-120			
Nitrate as NO3	41	5.0	mg/L	24.7	16	101	80-120			
Nitrate as N	9.29	1.0	mg/L	5.56	3.65	101	80-120			
Nitrite as NO2	19.6	5.0	mg/L	18.2	ND	100	80-120			
Nitrite as N	5.96	1.0	mg/L	5.56	ND	100	80-120			

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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
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**Batch AD63185 - General Preparation**

**Matrix Spike Dup (AD63185-MSD1)**

**Source: 16D1019-01**

Prepared & Analyzed: 04/13/16

Nitrate as NO3	26	1.0	mg/L	24.7	ND	106	80-120	0.193	20	
Chloride	16.0	0.50	mg/L	11.1	4.56	103	80-120	0.202	20	
Nitrate as N	5.98	0.20	mg/L	5.56	ND	107	80-120	0.193	20	
Nitrite as N	5.81	0.20	mg/L	5.56	ND	105	80-120	0.652	20	
Nitrite as NO2	19.1	1.0	mg/L	18.2	ND	105	80-120	0.652	20	



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#### 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-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

