



Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Bay Area: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Central Valley: 9090 Union Park Way, Suite 113, Elk Grove, CA 95624 • Phone: (916) 686-5190 • Fax: (916) 686-5192

ELAP Certificates 1551, 2728, and 2922

10 August 2016

West Bay Sanitary District

Attn: John Simonetti

500 Laurel Street

Menlo Park, CA 94025

RE: WQ Monitoring

Work Order: 16G2163

Enclosed are the results of analyses for samples received by the laboratory on 07/25/16 21:00. 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: [none]

Reported:
08/10/16 09:21

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
G13104 / 072416A	16G2163-01	Water	07/25/16 09:10	07/25/16 21:00
G13220 / 072416B	16G2163-02	Water	07/25/16 09:50	07/25/16 21:00
G13223 / 072416C	16G2163-03	Water	07/25/16 08:40	07/25/16 21:00



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

Project Manager: John Simonetti
Project: WQ Monitoring
Project Number: [none]

Reported:
08/10/16 09:21

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13104 / 072416A (16G2163-01)								
Metals (Drinking Water) by EPA 200 Series Methods								
Potassium	17 mg/L	1.0	1	AG64064	07/29/16 12:15	08/03/16 18:23	EPA 200.7	
Metals by EPA 200 Series Methods								
Aluminum	0.46 mg/L	0.050	1	AG64064	07/29/16 12:15	08/03/16 18:23	EPA 200.7	
Boron	0.24 mg/L	0.050	1	AG64064	07/29/16 12:15	08/03/16 18:23	EPA 200.7	
Calcium	15 mg/L	1.0	1	AG64064	07/29/16 12:15	08/03/16 18:23	EPA 200.7	
Iron	1.2 mg/L	0.10	1	AG64064	07/29/16 12:15	08/03/16 18:23	EPA 200.7	
Magnesium	5.1 mg/L	1.0	1	AG64064	07/29/16 12:15	08/03/16 18:23	EPA 200.7	
Manganese	0.068 mg/L	0.020	1	AG64064	07/29/16 12:15	08/03/16 18:23	EPA 200.7	
Sodium	51 mg/L	10	10	AG64064	07/29/16 12:15	08/05/16 16:15	EPA 200.7	
Zinc	0.16 mg/L	0.020	1	AG64064	07/29/16 12:15	08/03/16 18:23	EPA 200.7	
Conventional Chemistry Parameters by APHA/EPA Methods								
Ammonia as NH3	68 mg/L	0.50	1	AH63376	08/08/16 08:11	08/09/16 17:00	SM4500NH3C	
Bicarbonate	270 mg/L	5.0	1	AG63965	08/01/16 08:00	08/01/16 12:27	SM2320B	
Biochemical Oxygen Demand	320 mg/L	5.0	1	AH63166	07/27/16 08:00	08/01/16 11:30	SM5210B	
pH	7.17 pH Units	1.68	1	AG63920	07/25/16 19:00	07/25/16 19:00	SM4500-H+ B	T-14
Specific Conductance (EC)	740 umhos/cm	20	1	AG63944	07/26/16 16:00	07/26/16 17:00	SM2510B	
Total Dissolved Solids	350 mg/L	10	1	AG64010	07/28/16 12:00	08/02/16 17:02	SM2540C	
Total Suspended Solids	180 mg/L	1.0	1	AG64044	07/29/16 08:38	08/01/16 15:02	SM2540D	
Volatile Suspended Solids	180 mg/L	1.0	1	AG63933	07/26/16 15:40	08/03/16 16:54	EPA 160.4	
Silica	14 mg/L	5.0	5	AH63132	08/01/16 09:30	08/01/16 12:00	SM4500-SiO2 C	
Bicarbonate Alkalinity as CaCO3	220 mg/L	5.0	1	AG63965	08/01/16 08:00	08/01/16 12:27	SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AG63965	08/01/16 08:00	08/01/16 12:27	SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AG63965	08/01/16 08:00	08/01/16 12:27	SM2320B	
Total Alkalinity as CaCO3	220 mg/L	5.0	1	AG63965	08/01/16 08:00	08/01/16 12:27	SM2320B	
Total Kjeldahl Nitrogen	58 mg/L	1.0	1	AH63327	08/09/16 07:06	08/09/16 10:37	SM4500-Norg B	
Total Nitrogen	58 mg/L	1.0	1	AH63264	08/03/16 15:38	08/09/16 15:02	SM4500-N	
Hardness, Total	58 mg/L	5	1	AG64064	07/29/16 12:15	08/03/16 18:23	SM2340B	
Phosphorus, total	7.0 mg/L	2.0	5	AH63223	08/03/16 07:30	08/03/16 10:15	SM4500-P E	

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

Project Manager: John Simonetti
Project: WQ Monitoring
Project Number: [none]

Reported:
08/10/16 09:21

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13104 / 072416A (16G2163-01)								
Sample Type: Water			Sampled: 07/25/16 09:10					
Miscellaneous Physical/Conventional Chemistry Parameters								
Sodium Adsorption Ratio-Adj RNA	3.02 NA		1	AG64064	07/29/16 12:15	08/08/16 06:07	SAR	
Anions by EPA Method 300.0								
Chloride	52 mg/L	5.0	10	AG63895	07/26/16 21:15	07/26/16 21:15	EPA 300.0	
Nitrate as N	ND mg/L	0.20	1	AG63895	07/26/16 21:31	07/26/16 21:31	EPA 300.0	
Nitrate as NO3	ND mg/L	1.0	1	AG63895	07/26/16 21:31	07/26/16 21:31	EPA 300.0	
Nitrite as N	ND mg/L	0.20	1	AG63985	07/27/16 14:48	07/27/16 14:48	EPA 300.0	T-5
Nitrite as NO2	ND mg/L	1.0	1	AG63985	07/27/16 14:48	07/27/16 14:48	EPA 300.0	T-5
Sulfate as SO4	25 mg/L	0.50	1	AG63895	07/26/16 21:31	07/26/16 21:31	EPA 300.0	
G13220 / 072416B (16G2163-02)								
Sample Type: Water			Sampled: 07/25/16 09:50					
Metals (Drinking Water) by EPA 200 Series Methods								
Potassium	18 mg/L	1.0	1	AG64064	07/29/16 12:15	08/03/16 18:37	EPA 200.7	
Metals by EPA 200 Series Methods								
Aluminum	0.70 mg/L	0.050	1	AG64064	07/29/16 12:15	08/03/16 18:37	EPA 200.7	
Boron	0.18 mg/L	0.050	1	AG64064	07/29/16 12:15	08/03/16 18:37	EPA 200.7	
Calcium	16 mg/L	1.0	1	AG64064	07/29/16 12:15	08/03/16 18:37	EPA 200.7	
Iron	1.8 mg/L	0.10	1	AG64064	07/29/16 12:15	08/03/16 18:37	EPA 200.7	
Magnesium	6.2 mg/L	1.0	1	AG64064	07/29/16 12:15	08/03/16 18:37	EPA 200.7	
Manganese	0.052 mg/L	0.020	1	AG64064	07/29/16 12:15	08/03/16 18:37	EPA 200.7	
Sodium	43 mg/L	10	10	AG64064	07/29/16 12:15	08/05/16 16:20	EPA 200.7	
Zinc	0.23 mg/L	0.020	1	AG64064	07/29/16 12:15	08/03/16 18:37	EPA 200.7	



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500 Laurel Street
Menlo Park, CA 94025

Project Manager: John Simonetti
Project: WQ Monitoring
Project Number: [none]

Reported:
08/10/16 09:21

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13220 / 072416B (16G2163-02)								
Sample Type: Water			Sampled: 07/25/16 09:50					
Conventional Chemistry Parameters by APHA/EPA Methods								
Ammonia as NH3	56 mg/L	0.50	1	AH63376	08/08/16 08:11	08/09/16 17:00	SM4500NH3C	
Bicarbonate	300 mg/L	5.0	1	AG63965	08/01/16 08:00	08/01/16 12:27	SM2320B	
Biochemical Oxygen Demand	270 mg/L	5.0	1	AH63166	07/27/16 08:00	08/01/16 11:30	SM5210B	
pH	7.30 pH Units	1.68	1	AG63920	07/25/16 19:00	07/25/16 19:00	SM4500-H+ B	T-14
Specific Conductance (EC)	750 umhos/cm	20	1	AG63944	07/26/16 16:00	07/26/16 17:00	SM2510B	
Total Dissolved Solids	350 mg/L	10	1	AG64010	07/28/16 12:00	08/02/16 17:02	SM2540C	
Total Suspended Solids	290 mg/L	1.0	1	AG64044	07/29/16 08:38	08/01/16 15:02	SM2540D	
Volatile Suspended Solids	260 mg/L	1.0	1	AG63933	07/26/16 15:40	08/03/16 16:54	EPA 160.4	
Silica	15 mg/L	5.0	5	AH63132	08/01/16 09:30	08/01/16 12:00	SM4500-SiO2 C	
Bicarbonate Alkalinity as CaCO3	240 mg/L	5.0	1	AG63965	08/01/16 08:00	08/01/16 12:27	SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AG63965	08/01/16 08:00	08/01/16 12:27	SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AG63965	08/01/16 08:00	08/01/16 12:27	SM2320B	
Total Alkalinity as CaCO3	240 mg/L	5.0	1	AG63965	08/01/16 08:00	08/01/16 12:27	SM2320B	
Total Kjeldahl Nitrogen	83 mg/L	1.0	1	AH63327	08/09/16 07:06	08/09/16 10:37	SM4500-Norg B	
Total Nitrogen	83 mg/L	1.0	1	AH63264	08/03/16 15:38	08/09/16 15:02	SM4500-N	
Hardness, Total	64 mg/L	5	1	AG64064	07/29/16 12:15	08/03/16 18:37	SM2340B	
Phosphorus, total	8.9 mg/L	2.0	5	AH63223	08/03/16 07:30	08/03/16 10:15	SM4500-P E	
Miscellaneous Physical/Conventional Chemistry Parameters								
Sodium Adsorption Ratio-Adj RNa	2.34 NA		1	AG64064	07/29/16 12:15	08/08/16 06:07	SAR	
Anions by EPA Method 300.0								
Chloride	42 mg/L	5.0	10	AG63895	07/26/16 21:48	07/26/16 21:48	EPA 300.0	
Nitrate as N	ND mg/L	0.20	1	AG63895	07/26/16 22:04	07/26/16 22:04	EPA 300.0	
Nitrate as NO3	ND mg/L	1.0	1	AG63895	07/26/16 22:04	07/26/16 22:04	EPA 300.0	
Nitrite as N	ND mg/L	0.20	1	AG63985	07/27/16 15:04	07/27/16 15:04	EPA 300.0	T-5
Nitrite as NO2	ND mg/L	1.0	1	AG63985	07/27/16 15:04	07/27/16 15:04	EPA 300.0	T-5
Sulfate as SO4	31 mg/L	0.50	1	AG63895	07/26/16 22:04	07/26/16 22:04	EPA 300.0	
G13223 / 072416C (16G2163-03)								
Sample Type: Water			Sampled: 07/25/16 08:40					
Metals (Drinking Water) by EPA 200 Series Methods								
Potassium	18 mg/L	1.0	1	AG64064	07/29/16 12:15	08/03/16 18:42	EPA 200.7	

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

Project Manager: John Simonetti
Project: WQ Monitoring
Project Number: [none]

Reported:
08/10/16 09:21

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13223 / 072416C (16G2163-03)								
Sample Type: Water								
Sampled: 07/25/16 08:40								
Metals by EPA 200 Series Methods								
Aluminum	0.69 mg/L	0.050	1	AG64064	07/29/16 12:15	08/03/16 18:42	EPA 200.7	
Boron	0.20 mg/L	0.050	1	AG64064	07/29/16 12:15	08/03/16 18:42	EPA 200.7	
Calcium	16 mg/L	1.0	1	AG64064	07/29/16 12:15	08/03/16 18:42	EPA 200.7	
Iron	1.6 mg/L	0.10	1	AG64064	07/29/16 12:15	08/03/16 18:42	EPA 200.7	
Magnesium	6.6 mg/L	1.0	1	AG64064	07/29/16 12:15	08/03/16 18:42	EPA 200.7	
Manganese	0.056 mg/L	0.020	1	AG64064	07/29/16 12:15	08/03/16 18:42	EPA 200.7	
Sodium	71 mg/L	10	10	AG64064	07/29/16 12:15	08/05/16 16:26	EPA 200.7	
Zinc	0.21 mg/L	0.020	1	AG64064	07/29/16 12:15	08/03/16 18:42	EPA 200.7	
Conventional Chemistry Parameters by APHA/EPA Methods								
Ammonia as NH3	54 mg/L	0.50	1	AH63376	08/08/16 08:11	08/09/16 17:00	SM4500NH3C	
Bicarbonate	290 mg/L	5.0	1	AG63965	08/01/16 08:00	08/01/16 12:27	SM2320B	
Biochemical Oxygen Demand	320 mg/L	5.0	1	AH63166	07/27/16 08:00	08/01/16 11:30	SM5210B	
pH	7.41 pH Units	1.68	1	AG63920	07/25/16 19:00	07/25/16 19:00	SM4500-H+ B	T-14
Specific Conductance (EC)	880 umhos/cm	20	1	AG63944	07/26/16 16:00	07/26/16 17:00	SM2510B	
Total Dissolved Solids	450 mg/L	10	1	AG64010	07/28/16 12:00	08/02/16 17:02	SM2540C	
Total Suspended Solids	320 mg/L	1.0	1	AG64044	07/29/16 08:38	08/01/16 15:02	SM2540D	
Volatile Suspended Solids	290 mg/L	1.0	1	AG63933	07/26/16 15:40	08/03/16 16:54	EPA 160.4	
Silica	14 mg/L	5.0	5	AH63132	08/01/16 09:30	08/01/16 12:00	SM4500-SiO2 C	
Bicarbonate Alkalinity as CaCO3	240 mg/L	5.0	1	AG63965	08/01/16 08:00	08/01/16 12:27	SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AG63965	08/01/16 08:00	08/01/16 12:27	SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AG63965	08/01/16 08:00	08/01/16 12:27	SM2320B	
Total Alkalinity as CaCO3	240 mg/L	5.0	1	AG63965	08/01/16 08:00	08/01/16 12:27	SM2320B	
Total Kjeldahl Nitrogen	60 mg/L	1.0	1	AH63327	08/09/16 07:06	08/09/16 13:14	SM4500-Norg B	
Total Nitrogen	60 mg/L	1.0	1	AH63264	08/03/16 15:38	08/09/16 15:02	SM4500-N	
Hardness, Total	68 mg/L	5	1	AG64064	07/29/16 12:15	08/03/16 18:42	SM2340B	
Phosphorus, total	8.0 mg/L	2.0	5	AH63223	08/03/16 07:30	08/03/16 10:15	SM4500-P E	

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Project Manager: John Simonetti
Project: WQ Monitoring
Project Number: [none]

Reported:
08/10/16 09:21

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13223 / 072416C (16G2163-03)		Sample Type: Water			Sampled: 07/25/16 08:40			
Miscellaneous Physical/Conventional Chemistry Parameters								
Sodium Adsorption Ratio-Adj RNa	3.87 NA		1	AG64064	07/29/16 12:15	08/08/16 06:07	SAR	
Anions by EPA Method 300.0								
Chloride	86 mg/L	10	20	AG63895	07/26/16 22:21	07/26/16 22:21	EPA 300.0	
Nitrate as N	ND mg/L	0.20	1	AG63895	07/26/16 22:37	07/26/16 22:37	EPA 300.0	
Nitrate as NO3	ND mg/L	1.0	1	AG63895	07/26/16 22:37	07/26/16 22:37	EPA 300.0	
Nitrite as N	ND mg/L	0.20	1	AG63985	07/27/16 16:44	07/27/16 16:44	EPA 300.0	T-5
Nitrite as NO2	ND mg/L	1.0	1	AG63985	07/27/16 16:44	07/27/16 16:44	EPA 300.0	T-5
Sulfate as SO4	31 mg/L	0.50	1	AG63895	07/26/16 22:37	07/26/16 22:37	EPA 300.0	



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Metals (Drinking Water) by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Flag
Batch AG64064 - Metals Digest									
Blank (AG64064-BLK1)				Prepared: 07/29/16 Analyzed: 08/03/16					
Potassium	ND	1.0	mg/L						
LCS (AG64064-BS1)				Prepared: 07/29/16 Analyzed: 08/03/16					
Potassium	7.27	1.0	mg/L	8.00		90.9	85-115		
Duplicate (AG64064-DUP1)				Source: 16G2112-01		Prepared: 07/29/16 Analyzed: 08/03/16			
Potassium	2.52	1.0	mg/L		2.51		0.223	20	
Matrix Spike (AG64064-MS1)				Source: 16G2112-01		Prepared: 07/29/16 Analyzed: 08/03/16			
Potassium	10.5	1.0	mg/L	8.00	2.51	100	70-130		
Matrix Spike (AG64064-MS2)				Source: 16G2173-06		Prepared: 07/29/16 Analyzed: 08/03/16			
Potassium	24.6	1.0	mg/L	8.00	16.2	105	70-130		
Matrix Spike Dup (AG64064-MSD1)				Source: 16G2112-01		Prepared: 07/29/16 Analyzed: 08/03/16			
Potassium	10.7	1.0	mg/L	8.00	2.51	103	70-130	2.03	20



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Project Manager: John Simonetti
Project: WQ Monitoring
Project Number: [none]

Reported:
08/10/16 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
Batch AG64064 - Metals Digest										
Blank (AG64064-BLK1)				Prepared: 07/29/16 Analyzed: 08/03/16						
Aluminum	ND	0.050	mg/L							
Boron	ND	0.050	mg/L							
Calcium	ND	1.0	mg/L							
Iron	ND	0.10	mg/L							
Magnesium	ND	1.0	mg/L							
Manganese	ND	0.020	mg/L							
Sodium	ND	1.0	mg/L							
Zinc	ND	0.020	mg/L							
LCS (AG64064-BS1)				Prepared: 07/29/16 Analyzed: 08/03/16						
Aluminum	1.90	0.050	mg/L	2.00		94.9	85-115			
Boron	0.388	0.050	mg/L	0.400		96.9	85-115			
Calcium	7.71	1.0	mg/L	8.00		96.4	85-115			
Iron	1.98	0.10	mg/L	2.00		98.8	85-115			
Magnesium	7.75	1.0	mg/L	8.00		96.9	85-115			
Manganese	0.191	0.020	mg/L	0.200		95.7	85-115			
Sodium	7.74	1.0	mg/L	8.00		96.8	85-115			
Zinc	0.194	0.020	mg/L	0.200		96.8	85-115			
Duplicate (AG64064-DUP1)				Source: 16G2112-01 Prepared: 07/29/16 Analyzed: 08/03/16						
Aluminum	ND	0.050	mg/L		ND			2.88	20	
Boron	1.63	0.050	mg/L		1.68			3.01	20	
Calcium	123	1.0	mg/L		122			0.903	20	
Iron	0.665	0.10	mg/L		0.679			2.06	20	
Magnesium	71.4	1.0	mg/L		70.3			1.48	20	
Manganese	0.158	0.020	mg/L		0.162			2.39	20	
Sodium	568	1.0	mg/L		552			2.94	20	
Zinc	ND	0.020	mg/L		ND				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: [none]

Reported:
08/10/16 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
Batch AG64064 - Metals Digest										
Matrix Spike (AG64064-MS1)	Source: 16G2112-01			Prepared: 07/29/16 Analyzed: 08/03/16						
Aluminum	1.93	0.050	mg/L	2.00	ND	94.1	70-130			
Boron	2.00	0.050	mg/L	0.400	1.68	78.2	70-130			
Calcium	124	1.0	mg/L	8.00	122	25.0	70-130			QM-4X
Iron	2.58	0.10	mg/L	2.00	0.679	95.1	70-130			
Magnesium	77.3	1.0	mg/L	8.00	70.3	87.7	70-130			
Manganese	0.344	0.020	mg/L	0.200	0.162	90.9	70-130			
Sodium	556	1.0	mg/L	8.00	552	54.0	70-130			QM-4X
Zinc	0.193	0.020	mg/L	0.200	ND	96.5	70-130			
Matrix Spike (AG64064-MS2)	Source: 16G2173-06			Prepared: 07/29/16 Analyzed: 08/03/16						
Aluminum	2.00	0.050	mg/L	2.00	0.0853	95.5	70-130			
Boron	0.411	0.050	mg/L	0.400	ND	95.0	70-130			
Calcium	16.7	1.0	mg/L	8.00	8.26	106	70-130			
Iron	2.00	0.10	mg/L	2.00	ND	99.9	70-130			
Magnesium	11.8	1.0	mg/L	8.00	3.95	97.6	70-130			
Manganese	0.198	0.020	mg/L	0.200	ND	97.1	70-130			
Sodium	42.3	1.0	mg/L	8.00	34.5	96.9	70-130			
Zinc	0.305	0.020	mg/L	0.200	0.0985	103	70-130			
Matrix Spike Dup (AG64064-MSD1)	Source: 16G2112-01			Prepared: 07/29/16 Analyzed: 08/03/16						
Aluminum	1.91	0.050	mg/L	2.00	ND	93.1	70-130	1.02	20	
Boron	1.99	0.050	mg/L	0.400	1.68	76.1	70-130	0.422	20	
Calcium	137	1.0	mg/L	8.00	122	179	70-130	9.41	20	QM-4X
Iron	2.58	0.10	mg/L	2.00	0.679	94.9	70-130	0.165	20	
Magnesium	79.2	1.0	mg/L	8.00	70.3	111	70-130	2.35	20	
Manganese	0.343	0.020	mg/L	0.200	0.162	90.7	70-130	0.114	20	
Sodium	573	1.0	mg/L	8.00	552	273	70-130	3.10	20	QM-4X
Zinc	0.191	0.020	mg/L	0.200	ND	95.7	70-130	0.780	20	

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Project Manager: John Simonetti
Project: WQ Monitoring
Project Number: [none]

Reported:
08/10/16 09:21

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AG63920 - General Preparation										
Duplicate (AG63920-DUP1)		Source: 16G2111-01			Prepared & Analyzed: 07/25/16					
pH	7.47	1.68	pH Units		7.40			0.941	20	
Batch AG63933 - General Preparation										
Blank (AG63933-BLK1)		Prepared: 07/26/16 Analyzed: 08/03/16								
Volatile Suspended Solids	ND	1.0	mg/L							
Duplicate (AG63933-DUP1)		Source: 16G1817-01			Prepared: 07/26/16 Analyzed: 08/03/16					
Volatile Suspended Solids	117	1.0	mg/L		155			28.1	30	
Duplicate (AG63933-DUP2)		Source: 16G1817-03			Prepared: 07/26/16 Analyzed: 08/03/16					
Volatile Suspended Solids	331	1.0	mg/L		251			27.4	30	
Batch AG63944 - General Preparation										
Duplicate (AG63944-DUP1)		Source: 16G2218-02			Prepared & Analyzed: 07/26/16					
Specific Conductance (EC)	212	20	umhos/cm		209			1.43	5	
Batch AG63965 - General Preparation										
Duplicate (AG63965-DUP1)		Source: 16G2163-01			Prepared & Analyzed: 08/01/16					
Bicarbonate	274	5.0	mg/L		274			0.00	20	
Total Alkalinity as CaCO ₃	225	5.0	mg/L		225			0.00	20	
Carbonate Alkalinity as CaCO ₃	ND	5.0	mg/L		ND				20	
Hydroxide Alkalinity as CaCO ₃	ND	5.0	mg/L		ND				20	
Bicarbonate Alkalinity as CaCO ₃	225	5.0	mg/L		225			0.00	20	



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Reported:
08/10/16 09:21

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AG64010 - General Preparation										
Blank (AG64010-BLK1)				Prepared: 07/28/16 Analyzed: 08/02/16						
Total Dissolved Solids	ND	10	mg/L							
Duplicate (AG64010-DUP1)				Source: 16G2536-01 Prepared: 07/28/16 Analyzed: 08/02/16						
Total Dissolved Solids	348	10	mg/L		315			10.1	15	
Duplicate (AG64010-DUP2)				Source: 16G2267-01 Prepared: 07/28/16 Analyzed: 08/02/16						
Total Dissolved Solids	147	10	mg/L		170			14.5	15	
Batch AG64044 - General Preparation										
Blank (AG64044-BLK1)				Prepared: 07/29/16 Analyzed: 08/01/16						
Total Suspended Solids	ND	1.0	mg/L							
Duplicate (AG64044-DUP1)				Source: 16G2163-01 Prepared: 07/29/16 Analyzed: 08/01/16						
Total Suspended Solids	217	1.0	mg/L		185			16.2	30	
Duplicate (AG64044-DUP2)				Source: 16G2163-03 Prepared: 07/29/16 Analyzed: 08/01/16						
Total Suspended Solids	327	1.0	mg/L		319			2.65	30	
Batch AG64064 - Metals Digest										
Blank (AG64064-BLK1)				Prepared: 07/29/16 Analyzed: 08/03/16						
Hardness, Total	ND	5	mg/L							
Duplicate (AG64064-DUP1)				Source: 16G2112-01 Prepared: 07/29/16 Analyzed: 08/03/16						
Hardness, Total	602	5	mg/L		595			1.18	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
Batch AH63132 - General Preparation										
Blank (AH63132-BLK1)				Prepared & Analyzed: 08/01/16						
Silica	ND	1.0	mg/L							
LCS (AH63132-BS1)				Prepared & Analyzed: 08/01/16						
Silica	9.57	1.0	mg/L	10.0		95.7	85-115			
LCS Dup (AH63132-BSD1)				Prepared & Analyzed: 08/01/16						
Silica	9.61	1.0	mg/L	10.0		96.1	85-115	0.419	20	
Duplicate (AH63132-DUP1)				Source: 16G2160-01		Prepared & Analyzed: 08/01/16				
Silica	14.7	5.0	mg/L		14.9			1.36	20	
Matrix Spike (AH63132-MS1)				Source: 16G2160-01		Prepared & Analyzed: 08/01/16				
Silica	39.2	5.0	mg/L	25.0	14.9	97.2	80-120			
Matrix Spike Dup (AH63132-MSD1)				Source: 16G2160-01		Prepared & Analyzed: 08/01/16				
Silica	39.2	5.0	mg/L	25.0	14.9	97.2	80-120	0.00	20	
Batch AH63166 - General Preparation										
Blank (AH63166-BLK1)				Prepared: 07/27/16 Analyzed: 08/01/16						
Biochemical Oxygen Demand	ND	5.0	mg/L							
Blank (AH63166-BLK2)				Prepared: 07/27/16 Analyzed: 08/01/16						
Biochemical Oxygen Demand	ND	5.0	mg/L							
LCS (AH63166-BS1)				Prepared: 07/27/16 Analyzed: 08/01/16						
Biochemical Oxygen Demand	218	5.0	mg/L	200		109	84-115			



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Project: WQ Monitoring
Project Number: [none]

Reported:
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Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Flag
Batch AH63166 - General Preparation									
Duplicate (AH63166-DUP1)		Source: 16G2281-02		Prepared: 07/27/16 Analyzed: 08/01/16					
Biochemical Oxygen Demand	ND	5.0	mg/L		ND		5.56	30	
Batch AH63223 - General Prep									
Blank (AH63223-BLK1)		Prepared & Analyzed: 08/03/16							
Phosphorus, total	ND	0.040	mg/L						
LCS (AH63223-BS1)		Prepared & Analyzed: 08/03/16							
Phosphorus, total	0.198	0.040	mg/L	0.200		99.0	85-115		
Duplicate (AH63223-DUP1)		Source: 16G2267-01		Prepared & Analyzed: 08/03/16					
Phosphorus, total	ND	0.040	mg/L		ND		3.78	20	
Matrix Spike (AH63223-MS1)		Source: 16G2267-01		Prepared & Analyzed: 08/03/16					
Phosphorus, total	0.210	0.040	mg/L	0.200	ND	87.7	70-130		
Matrix Spike Dup (AH63223-MSD1)		Source: 16G2267-01		Prepared & Analyzed: 08/03/16					
Phosphorus, total	0.213	0.040	mg/L	0.200	ND	89.1	70-130	1.26	20
Batch AH63327 - General Prep									
LCS (AH63327-BS1)		Prepared: 08/08/16 Analyzed: 08/09/16							
Total Kjeldahl Nitrogen	3.04	1.0	mg/L	2.98		102	80-120		
LCS Dup (AH63327-BSD1)		Prepared: 08/08/16 Analyzed: 08/09/16							
Total Kjeldahl Nitrogen	3.04	1.0	mg/L	2.98		102	80-120	0.00	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
Batch AH63327 - General Prep										
Matrix Spike (AH63327-MS1)		Source: 16G2260-01		Prepared: 08/08/16 Analyzed: 08/09/16						
Total Kjeldahl Nitrogen	64.4	1.0	mg/L	22.6	40.6	105	75-125			
Matrix Spike Dup (AH63327-MSD1)		Source: 16G2260-01		Prepared: 08/08/16 Analyzed: 08/09/16						
Total Kjeldahl Nitrogen	64.4	1.0	mg/L	22.6	40.6	105	75-125	0.00	20	
Batch AH63376 - General Preparation										
Blank (AH63376-BLK1)		Prepared: 08/08/16 Analyzed: 08/09/16								
Ammonia as NH3	ND	0.50	mg/L							
LCS (AH63376-BS1)		Prepared: 08/08/16 Analyzed: 08/09/16								
Ammonia as NH3	5.75	0.50	mg/L	6.10		94.2	90-110			
LCS Dup (AH63376-BSD1)		Prepared: 08/08/16 Analyzed: 08/09/16								
Ammonia as NH3	5.96	0.50	mg/L	6.10		97.7	90-110	3.64	10	
Matrix Spike (AH63376-MS1)		Source: 16G2350-01		Prepared: 08/08/16 Analyzed: 08/09/16						
Ammonia as NH3	9.58	0.50	mg/L	6.10	4.47	83.8	85-115			QM-05
Matrix Spike Dup (AH63376-MSD1)		Source: 16G2350-01		Prepared: 08/08/16 Analyzed: 08/09/16						
Ammonia as NH3	9.69	0.50	mg/L	6.10	4.47	85.5	85-115	1.11	20	

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Project: WQ Monitoring
Project Number: [none]

Reported:
08/10/16 09:21

Anions by EPA Method 300.0 - Quality Control

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AG63895 - General Preparation										
Blank (AG63895-BLK1)				Prepared & Analyzed: 07/26/16						
Nitrate as N	ND	0.20	mg/L							
Nitrate as NO3	ND	1.0	mg/L							
Sulfate as SO4	ND	0.50	mg/L							
Chloride	ND	0.50	mg/L							
LCS (AG63895-BS1)				Prepared & Analyzed: 07/26/16						
Nitrate as NO3	26	1.0	mg/L	24.7		106	90-110			
Sulfate as SO4	23.2	0.50	mg/L	22.2		104	90-110			
Chloride	11.7	0.50	mg/L	11.1		105	90-110			
Nitrate as N	5.89	0.20	mg/L	5.56		106	90-110			
Duplicate (AG63895-DUP1)				Source: 16G2229-01		Prepared & Analyzed: 07/27/16				
Sulfate as SO4	6.74	0.50	mg/L		6.72			0.372	20	
Chloride	12.2	0.50	mg/L		12.2			0.139	20	
Nitrate as N	ND	0.20	mg/L		ND				20	
Nitrate as NO3	ND	1.0	mg/L		ND				20	
Matrix Spike (AG63895-MS1)				Source: 16G2229-01		Prepared & Analyzed: 07/27/16				
Nitrate as NO3	26	5.0	mg/L	24.7	ND	105	80-120			
Sulfate as SO4	29.5	2.5	mg/L	22.2	6.72	103	80-120			
Chloride	24.0	2.5	mg/L	11.1	12.2	106	80-120			
Nitrate as N	5.82	1.0	mg/L	5.56	ND	105	80-120			
Matrix Spike (AG63895-MS2)				Source: 16G2244-01		Prepared & Analyzed: 07/27/16				
Sulfate as SO4	48.6	2.5	mg/L	22.2	25.4	104	80-120			
Nitrate as NO3	43	5.0	mg/L	24.7	18	105	80-120			
Nitrate as N	9.81	1.0	mg/L	5.56	3.96	105	80-120			
Chloride	49.9	2.5	mg/L	11.1	39.2	96.6	80-120			

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Project Manager: John Simonetti
Project: WQ Monitoring
Project Number: [none]

Reported:
08/10/16 09:21

Anions by EPA Method 300.0 - Quality Control

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AG63895 - General Preparation										
Matrix Spike Dup (AG63895-MSD1)		Source: 16G2229-01		Prepared & Analyzed: 07/27/16						
Nitrate as NO3	26	5.0	mg/L	24.7	ND	104	80-120	0.909	20	
Chloride	23.9	2.5	mg/L	11.1	12.2	105	80-120	0.556	20	
Sulfate as SO4	29.5	2.5	mg/L	22.2	6.72	102	80-120	0.151	20	
Nitrate as N	5.77	1.0	mg/L	5.56	ND	104	80-120	0.909	20	
Batch AG63985 - General Preparation										
Blank (AG63985-BLK1)		Prepared & Analyzed: 07/27/16								
Nitrite as N	ND	0.20	mg/L							
Nitrite as NO2	ND	1.0	mg/L							
LCS (AG63985-BS1)		Prepared & Analyzed: 07/27/16								
Nitrite as N	5.43	0.20	mg/L	5.56		97.8	90-110			
Nitrite as NO2	17.9	1.0	mg/L	18.2		98.0	90-110			
Duplicate (AG63985-DUP1)		Source: 16G2229-01		Prepared & Analyzed: 07/27/16						
Nitrite as NO2	ND	1.0	mg/L		ND				20	
Nitrite as N	ND	0.20	mg/L		ND				20	
Matrix Spike (AG63985-MS1)		Source: 16G2229-01		Prepared & Analyzed: 07/27/16						
Nitrite as N	4.26	2.0	mg/L	5.56	ND	76.6	80-120			QM-05
Nitrite as NO2	14.0	10	mg/L	18.2	ND	76.7	80-120			QM-05
Matrix Spike (AG63985-MS2)		Source: 16G2375-01		Prepared & Analyzed: 08/01/16						
Nitrite as NO2	18.3	5.0	mg/L	18.2	ND	101	80-120			
Nitrite as N	5.58	1.0	mg/L	5.56	ND	100	80-120			



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Project: WQ Monitoring
Project Number: [none]

Reported:
08/10/16 09:21

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 AG63985 - General Preparation

Matrix Spike Dup (AG63985-MSD1)

Source: 16G2229-01

Prepared & Analyzed: 07/27/16

Nitrite as NO ₂	13.9	10	mg/L	18.2	ND	76.1	80-120	0.786	20	QM-05
Nitrite as N	4.22	2.0	mg/L	5.56	ND	76.0	80-120	0.786	20	QM-05



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Project Manager: John Simonetti
Project: WQ Monitoring
Project Number: [none]

Reported:
08/10/16 09:21

Notes and Definitions

- 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-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-5 Sample prepared outside of recommended holding time per client.
- ND Analyte NOT DETECTED at or above the reporting limit
- dry Sample results reported on a dry weight basis
- REC Recovery
- RPD Relative Percent Difference

