



Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

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

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

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

ELAP Certificates 1551, 2728, and 2922

05 August 2016

West Bay Sanitary District

Attn: John Simonetti

500 Laurel Street

Menlo Park, CA 94025

RE: WQ Monitoring

Work Order: 16G1952

Enclosed are the results of analyses for samples received by the laboratory on 07/21/16 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:
08/05/16 16:14

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
G13104 / 072016A	16G1952-01	Water	07/21/16 08:50	07/21/16 21:00
G13220 / 072016B	16G1952-02	Water	07/21/16 09:20	07/21/16 21:00
G13223 / 072016C	16G1952-03	Water	07/21/16 08:25	07/21/16 21:00



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500 Laurel Street
Menlo Park, CA 94025

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

Reported:
08/05/16 16:14

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13104 / 072016A (16G1952-01)								
Sample Type: Water								
Sampled: 07/21/16 08:50								
Metals (Drinking Water) by EPA 200 Series Methods								
Potassium	16 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 17:19	EPA 200.7	
Metals by EPA 200 Series Methods								
Aluminum	0.41 mg/L	0.050	1	AG64063	07/29/16 12:11	08/02/16 17:19	EPA 200.7	
Boron	0.16 mg/L	0.050	1	AG64063	07/29/16 12:11	08/02/16 17:19	EPA 200.7	
Calcium	17 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 17:19	EPA 200.7	
Iron	1.5 mg/L	0.10	1	AG64063	07/29/16 12:11	08/02/16 17:19	EPA 200.7	
Magnesium	4.3 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 17:19	EPA 200.7	
Manganese	0.070 mg/L	0.020	1	AG64063	07/29/16 12:11	08/02/16 17:19	EPA 200.7	
Sodium	47 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 17:19	EPA 200.7	
Zinc	0.16 mg/L	0.020	1	AG64063	07/29/16 12:11	08/02/16 17:19	EPA 200.7	
Conventional Chemistry Parameters by APHA/EPA Methods								
Ammonia as NH3	57 mg/L	0.50	1	AH63227	08/03/16 08:12	08/03/16 17:00	SM4500NH3C	
Bicarbonate	260 mg/L	5.0	1	AG63803	07/28/16 08:00	07/28/16 15:49	SM2320B	
Biochemical Oxygen Demand	310 mg/L	5.0	1	AG63969	07/22/16 14:00	07/27/16 12:30	SM5210B	
pH	7.56 pH Units	1.68	1	AG63809	07/21/16 18:50	07/21/16 18:50	SM4500-H+ B	T-14
Specific Conductance (EC)	710 umhos/cm	20	1	AG63873	07/22/16 16:00	07/22/16 17:00	SM2510B	
Total Dissolved Solids	340 mg/L	10	1	AG63987	07/27/16 15:37	07/29/16 16:35	SM2540C	
Total Suspended Solids	270 mg/L	1.0	1	AG63995	07/28/16 08:09	07/29/16 13:49	SM2540D	
Volatile Suspended Solids	250 mg/L	1.0	1	AG63933	07/26/16 15:40	08/03/16 16:54	EPA 160.4	
Silica	17 mg/L	5.0	5	AG63835	07/25/16 09:00	07/25/16 12:00	SM4500-SiO2 C	
Bicarbonate Alkalinity as CaCO3	210 mg/L	5.0	1	AG63803	07/28/16 08:00	07/28/16 15:49	SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AG63803	07/28/16 08:00	07/28/16 15:49	SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AG63803	07/28/16 08:00	07/28/16 15:49	SM2320B	
Total Alkalinity as CaCO3	210 mg/L	5.0	1	AG63803	07/28/16 08:00	07/28/16 15:49	SM2320B	
Total Kjeldahl Nitrogen	43 mg/L	1.0	1	AG64039	08/02/16 06:49	08/04/16 09:27	SM4500-Norg B	
Total Nitrogen	43 mg/L	1.0	1	AG63891	07/26/16 09:20	08/04/16 16:09	SM4500-N	
Hardness, Total	59 mg/L	5	1	AG64063	07/29/16 12:11	08/02/16 17:19	SM2340B	
Phosphorus, total	5.9 mg/L	0.80	2	AH63124	08/01/16 07:45	08/01/16 15:02	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:
08/05/16 16:14

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13104 / 072016A (16G1952-01)								
Sample Type: Water			Sampled: 07/21/16 08:50					
Miscellaneous Physical/Conventional Chemistry Parameters								
Sodium Adsorption Ratio-Adj RNA	2.89 NA		1	AG64063	07/29/16 12:11	08/05/16 09:45	SAR	
Anions by EPA Method 300.0								
Chloride	51 mg/L	5.0	10	AG63805	07/26/16 19:16	07/26/16 19:16	EPA 300.0	
Nitrate as N	ND mg/L	0.20	1	AG63805	07/22/16 19:41	07/22/16 19:41	EPA 300.0	
Nitrate as NO3	ND mg/L	1.0	1	AG63805	07/22/16 19:41	07/22/16 19:41	EPA 300.0	
Nitrite as N	ND mg/L	0.20	1	AG63805	07/22/16 19:41	07/22/16 19:41	EPA 300.0	
Nitrite as NO2	ND mg/L	1.0	1	AG63805	07/22/16 19:41	07/22/16 19:41	EPA 300.0	
Sulfate as SO4	19 mg/L	0.50	1	AG63805	07/22/16 19:41	07/22/16 19:41	EPA 300.0	
G13220 / 072016B (16G1952-02)								
Sample Type: Water			Sampled: 07/21/16 09:20					
Metals (Drinking Water) by EPA 200 Series Methods								
Potassium	20 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 17:24	EPA 200.7	
Metals by EPA 200 Series Methods								
Aluminum	1.1 mg/L	0.050	1	AG64063	07/29/16 12:11	08/02/16 17:24	EPA 200.7	
Boron	0.23 mg/L	0.050	1	AG64063	07/29/16 12:11	08/02/16 17:24	EPA 200.7	
Calcium	18 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 17:24	EPA 200.7	
Iron	2.3 mg/L	0.10	1	AG64063	07/29/16 12:11	08/02/16 17:24	EPA 200.7	
Magnesium	7.7 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 17:24	EPA 200.7	
Manganese	0.062 mg/L	0.020	1	AG64063	07/29/16 12:11	08/02/16 17:24	EPA 200.7	
Sodium	51 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 17:24	EPA 200.7	
Zinc	0.24 mg/L	0.020	1	AG64063	07/29/16 12:11	08/02/16 17:24	EPA 200.7	



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Project: WQ Monitoring
Project Number: [none]

Reported:
08/05/16 16:14

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13220 / 072016B (16G1952-02)								
Sample Type: Water			Sampled: 07/21/16 09:20					
Conventional Chemistry Parameters by APHA/EPA Methods								
Ammonia as NH3	56 mg/L	0.50	1	AH63227	08/03/16 08:12	08/03/16 17:00	SM4500NH3C	
Bicarbonate	310 mg/L	5.0	1	AG63803	07/28/16 08:00	07/28/16 15:49	SM2320B	
Biochemical Oxygen Demand	230 mg/L	5.0	1	AG63969	07/22/16 14:00	07/27/16 12:30	SM5210B	
pH	7.48 pH Units	1.68	1	AG63809	07/21/16 18:50	07/21/16 18:50	SM4500-H+ B	T-14
Specific Conductance (EC)	830 umhos/cm	20	1	AG63873	07/22/16 16:00	07/22/16 17:00	SM2510B	
Total Dissolved Solids	390 mg/L	10	1	AG63987	07/27/16 15:37	07/29/16 16:35	SM2540C	
Total Suspended Solids	410 mg/L	1.0	1	AG63995	07/28/16 08:09	07/29/16 13:49	SM2540D	
Volatile Suspended Solids	360 mg/L	1.0	1	AG63933	07/26/16 15:40	08/03/16 16:54	EPA 160.4	
Silica	18 mg/L	5.0	5	AG63835	07/25/16 09:00	07/25/16 12:00	SM4500-SiO2 C	
Bicarbonate Alkalinity as CaCO3	260 mg/L	5.0	1	AG63803	07/28/16 08:00	07/28/16 15:49	SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AG63803	07/28/16 08:00	07/28/16 15:49	SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AG63803	07/28/16 08:00	07/28/16 15:49	SM2320B	
Total Alkalinity as CaCO3	260 mg/L	5.0	1	AG63803	07/28/16 08:00	07/28/16 15:49	SM2320B	
Total Kjeldahl Nitrogen	62 mg/L	1.0	1	AG64039	08/02/16 06:49	08/04/16 09:27	SM4500-Norg B	
Total Nitrogen	62 mg/L	1.0	1	AG63891	07/26/16 09:20	08/04/16 16:09	SM4500-N	
Hardness, Total	77 mg/L	5	1	AG64063	07/29/16 12:11	08/02/16 17:24	SM2340B	
Phosphorus, total	8.1 mg/L	0.80	2	AH63124	08/01/16 07:45	08/01/16 15:02	SM4500-P E	
Miscellaneous Physical/Conventional Chemistry Parameters								
Sodium Adsorption Ratio-Adj RNa	2.81 NA		1	AG64063	07/29/16 12:11	08/05/16 09:45	SAR	
Anions by EPA Method 300.0								
Chloride	56 mg/L	5.0	10	AG63805	07/22/16 19:57	07/22/16 19:57	EPA 300.0	
Nitrate as N	ND mg/L	0.20	1	AG63805	07/22/16 20:45	07/22/16 20:45	EPA 300.0	
Nitrate as NO3	ND mg/L	1.0	1	AG63805	07/22/16 20:45	07/22/16 20:45	EPA 300.0	
Nitrite as N	ND mg/L	0.20	1	AG63805	07/22/16 20:45	07/22/16 20:45	EPA 300.0	
Nitrite as NO2	ND mg/L	1.0	1	AG63805	07/22/16 20:45	07/22/16 20:45	EPA 300.0	
Sulfate as SO4	30 mg/L	0.50	1	AG63805	07/22/16 20:45	07/22/16 20:45	EPA 300.0	
G13223 / 072016C (16G1952-03)								
Sample Type: Water			Sampled: 07/21/16 08:25					
Metals (Drinking Water) by EPA 200 Series Methods								
Potassium	17 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 17:28	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:
08/05/16 16:14

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13223 / 072016C (16G1952-03)								
		Sample Type: Water			Sampled: 07/21/16 08:25			
Metals by EPA 200 Series Methods								
Aluminum	0.62 mg/L	0.050	1	AG64063	07/29/16 12:11	08/02/16 17:28	EPA 200.7	
Boron	0.18 mg/L	0.050	1	AG64063	07/29/16 12:11	08/02/16 17:28	EPA 200.7	
Calcium	15 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 17:28	EPA 200.7	
Iron	1.4 mg/L	0.10	1	AG64063	07/29/16 12:11	08/02/16 17:28	EPA 200.7	
Magnesium	5.9 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 17:28	EPA 200.7	
Manganese	0.053 mg/L	0.020	1	AG64063	07/29/16 12:11	08/02/16 17:28	EPA 200.7	
Sodium	42 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 17:28	EPA 200.7	
Zinc	0.20 mg/L	0.020	1	AG64063	07/29/16 12:11	08/02/16 17:28	EPA 200.7	
Conventional Chemistry Parameters by APHA/EPA Methods								
Ammonia as NH3	53 mg/L	0.50	1	AH63227	08/03/16 08:12	08/03/16 17:00	SM4500NH3C	
Bicarbonate	290 mg/L	5.0	1	AG63803	07/28/16 08:00	07/28/16 15:49	SM2320B	
Biochemical Oxygen Demand	290 mg/L	5.0	1	AG63969	07/22/16 14:00	07/27/16 12:30	SM5210B	
pH	7.54 pH Units	1.68	1	AG63809	07/21/16 18:50	07/21/16 18:50	SM4500-H+ B	T-14
Specific Conductance (EC)	770 umhos/cm	20	1	AG63873	07/22/16 16:00	07/22/16 17:00	SM2510B	
Total Dissolved Solids	280 mg/L	10	1	AG63987	07/27/16 15:37	07/29/16 16:35	SM2540C	
Total Suspended Solids	220 mg/L	1.0	1	AG63995	07/28/16 08:09	07/29/16 13:49	SM2540D	
Volatile Suspended Solids	200 mg/L	1.0	1	AG63933	07/26/16 15:40	08/03/16 16:54	EPA 160.4	
Silica	17 mg/L	5.0	5	AG63835	07/25/16 09:00	07/25/16 12:00	SM4500-SiO2 C	
Bicarbonate Alkalinity as CaCO3	240 mg/L	5.0	1	AG63803	07/28/16 08:00	07/28/16 15:49	SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AG63803	07/28/16 08:00	07/28/16 15:49	SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AG63803	07/28/16 08:00	07/28/16 15:49	SM2320B	
Total Alkalinity as CaCO3	240 mg/L	5.0	1	AG63803	07/28/16 08:00	07/28/16 15:49	SM2320B	
Total Kjeldahl Nitrogen	62 mg/L	1.0	1	AG64039	08/02/16 06:49	08/04/16 09:27	SM4500-Norg B	
Total Nitrogen	62 mg/L	1.0	1	AG63891	07/26/16 09:20	08/04/16 16:09	SM4500-N	
Hardness, Total	62 mg/L	5	1	AG64063	07/29/16 12:11	08/02/16 17:28	SM2340B	
Phosphorus, total	5.9 mg/L	0.80	2	AH63124	08/01/16 07:45	08/01/16 15:02	SM4500-P E	



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

Reported:
08/05/16 16:14

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13223 / 072016C (16G1952-03)		Sample Type: Water			Sampled: 07/21/16 08:25			
Miscellaneous Physical/Conventional Chemistry Parameters								
Sodium Adsorption Ratio-Adj RNa	2.53 NA		1	AG64063	07/29/16 12:11	08/05/16 09:45	SAR	
Anions by EPA Method 300.0								
Chloride	49 mg/L	5.0	10	AG63805	07/22/16 21:01	07/22/16 21:01	EPA 300.0	
Nitrate as N	ND mg/L	0.20	1	AG63805	07/22/16 21:17	07/22/16 21:17	EPA 300.0	
Nitrate as NO3	ND mg/L	1.0	1	AG63805	07/22/16 21:17	07/22/16 21:17	EPA 300.0	
Nitrite as N	ND mg/L	0.20	1	AG63805	07/22/16 21:17	07/22/16 21:17	EPA 300.0	
Nitrite as NO2	ND mg/L	1.0	1	AG63805	07/22/16 21:17	07/22/16 21:17	EPA 300.0	
Sulfate as SO4	30 mg/L	0.50	1	AG63805	07/22/16 21:17	07/22/16 21:17	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 AG64063 - Metals Digest									
Blank (AG64063-BLK1)				Prepared: 07/29/16 Analyzed: 08/02/16					
Potassium	ND	1.0	mg/L						
LCS (AG64063-BS1)				Prepared: 07/29/16 Analyzed: 08/02/16					
Potassium	7.50	1.0	mg/L	8.00		93.8	85-115		
Duplicate (AG64063-DUP1)				Source: 16G2024-02		Prepared: 07/29/16 Analyzed: 08/02/16			
Potassium	13.1	1.0	mg/L		13.1		0.197	20	
Matrix Spike (AG64063-MS1)				Source: 16G2024-02		Prepared: 07/29/16 Analyzed: 08/02/16			
Potassium	21.2	1.0	mg/L	8.00	13.1	102	70-130		
Matrix Spike (AG64063-MS2)				Source: 16G2143-01		Prepared: 07/29/16 Analyzed: 08/02/16			
Potassium	9.43	1.0	mg/L	8.00	1.93	93.8	70-130		
Matrix Spike Dup (AG64063-MSD1)				Source: 16G2024-02		Prepared: 07/29/16 Analyzed: 08/02/16			
Potassium	20.8	1.0	mg/L	8.00	13.1	96.7	70-130	1.94	20



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

Reported:
08/05/16 16:14

Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Flag
Batch AG64063 - Metals Digest									
Blank (AG64063-BLK1)				Prepared: 07/29/16 Analyzed: 08/02/16					
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 (AG64063-BS1)				Prepared: 07/29/16 Analyzed: 08/02/16					
Aluminum	1.87	0.050	mg/L	2.00		93.6	85-115		
Boron	0.361	0.050	mg/L	0.400		90.3	85-115		
Calcium	7.34	1.0	mg/L	8.00		91.8	85-115		
Iron	1.92	0.10	mg/L	2.00		95.9	85-115		
Magnesium	7.19	1.0	mg/L	8.00		89.8	85-115		
Manganese	0.190	0.020	mg/L	0.200		95.1	85-115		
Sodium	7.66	1.0	mg/L	8.00		95.7	85-115		
Zinc	0.185	0.020	mg/L	0.200		92.7	85-115		
Duplicate (AG64063-DUP1)				Source: 16G2024-02		Prepared: 07/29/16 Analyzed: 08/02/16			
Aluminum	ND	0.050	mg/L		ND			20	
Boron	ND	0.050	mg/L		ND		6.77	20	
Calcium	36.7	1.0	mg/L		36.3		0.892	20	
Iron	ND	0.10	mg/L		ND		3.64	20	
Magnesium	9.27	1.0	mg/L		9.09		1.93	20	
Manganese	ND	0.020	mg/L		ND		2.91	20	
Sodium	41.0	1.0	mg/L		40.7		0.781	20	
Zinc	0.0391	0.020	mg/L		0.0388		0.572	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:
08/05/16 16:14

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 AG64063 - Metals Digest										
Matrix Spike (AG64063-MS1)		Source: 16G2024-02		Prepared: 07/29/16 Analyzed: 08/02/16						
Aluminum	1.91	0.050	mg/L	2.00	ND	93.2	70-130			
Boron	0.400	0.050	mg/L	0.400	ND	91.5	70-130			
Calcium	44.5	1.0	mg/L	8.00	36.3	102	70-130			
Iron	1.95	0.10	mg/L	2.00	ND	96.2	70-130			
Magnesium	17.5	1.0	mg/L	8.00	9.09	106	70-130			
Manganese	0.203	0.020	mg/L	0.200	ND	96.4	70-130			
Sodium	48.7	1.0	mg/L	8.00	40.7	99.8	70-130			
Zinc	0.235	0.020	mg/L	0.200	0.0388	97.9	70-130			
Matrix Spike (AG64063-MS2)		Source: 16G2143-01		Prepared: 07/29/16 Analyzed: 08/02/16						
Aluminum	12.5	0.050	mg/L	2.00	8.11	217	70-130			QM-4X
Boron	0.477	0.050	mg/L	0.400	0.117	89.9	70-130			
Calcium	94.2	1.0	mg/L	8.00	85.2	113	70-130			
Iron	6.96	0.10	mg/L	2.00	4.58	119	70-130			
Magnesium	46.4	1.0	mg/L	8.00	38.5	98.7	70-130			
Manganese	0.404	0.020	mg/L	0.200	0.222	90.9	70-130			
Sodium	23.2	1.0	mg/L	8.00	15.6	95.1	70-130			
Zinc	0.211	0.020	mg/L	0.200	0.0233	93.6	70-130			
Matrix Spike Dup (AG64063-MSD1)		Source: 16G2024-02		Prepared: 07/29/16 Analyzed: 08/02/16						
Aluminum	1.85	0.050	mg/L	2.00	ND	90.4	70-130	2.94	20	
Boron	0.393	0.050	mg/L	0.400	ND	89.9	70-130	1.58	20	
Calcium	44.4	1.0	mg/L	8.00	36.3	101	70-130	0.232	20	
Iron	1.89	0.10	mg/L	2.00	ND	93.4	70-130	2.90	20	
Magnesium	17.1	1.0	mg/L	8.00	9.09	99.7	70-130	2.68	20	
Manganese	0.197	0.020	mg/L	0.200	ND	93.5	70-130	2.88	20	
Sodium	48.6	1.0	mg/L	8.00	40.7	99.0	70-130	0.130	20	
Zinc	0.228	0.020	mg/L	0.200	0.0388	94.7	70-130	2.72	20	

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

Reported:
08/05/16 16:14

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
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Batch AG63803 - General Preparation

Duplicate (AG63803-DUP1)

Source: 16G1808-01

Prepared & Analyzed: 07/28/16

Bicarbonate	152	5.0	mg/L		152			0.00	20	
Carbonate Alkalinity as CaCO ₃	ND	5.0	mg/L		ND				20	
Total Alkalinity as CaCO ₃	125	5.0	mg/L		125			0.00	20	
Bicarbonate Alkalinity as CaCO ₃	125	5.0	mg/L		125			0.00	20	
Hydroxide Alkalinity as CaCO ₃	ND	5.0	mg/L		ND				20	

Batch AG63809 - General Preparation

Duplicate (AG63809-DUP1)

Source: 16G1952-01

Prepared & Analyzed: 07/21/16

pH	7.49	1.68	pH Units		7.56			0.930	20	
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Batch AG63835 - General Preparation

Blank (AG63835-BLK1)

Prepared & Analyzed: 07/25/16

Silica	ND	1.0	mg/L							
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LCS (AG63835-BS1)

Prepared & Analyzed: 07/25/16

Silica	9.92	1.0	mg/L	10.0	99.2	85-115				
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LCS Dup (AG63835-BSD1)

Prepared & Analyzed: 07/25/16

Silica	9.92	1.0	mg/L	10.0	99.2	85-115	0.00	20		
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Duplicate (AG63835-DUP1)

Source: 16G1952-03

Prepared & Analyzed: 07/25/16

Silica	17.4	5.0	mg/L		17.0			2.14	20	
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Matrix Spike (AG63835-MS1)

Source: 16G1952-03

Prepared & Analyzed: 07/25/16

Silica	42.3	5.0	mg/L	25.0	17.0	101	80-120			
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Project Manager: John Simonetti
Project: WQ Monitoring
Project Number: [none]

Reported:
08/05/16 16:14

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
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Batch AG63835 - General Preparation

Matrix Spike Dup (AG63835-MSD1)

Source: 16G1952-03

Prepared & Analyzed: 07/25/16

Silica	40.8	5.0	mg/L	25.0	17.0	94.9	80-120	3.55	20	
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Batch AG63873 - General Preparation

Duplicate (AG63873-DUP1)

Source: 16G1967-01

Prepared & Analyzed: 07/22/16

Specific Conductance (EC)	3280	20	umhos/cm		3270			0.367	5	
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Batch AG63933 - General Preparation

Blank (AG63933-BLK1)

Prepared: 07/26/16 Analyzed: 08/03/16

Volatile Suspended Solids	ND	1.0	mg/L							
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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	
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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	
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Batch AG63969 - General Preparation

Blank (AG63969-BLK1)

Prepared: 07/22/16 Analyzed: 07/27/16

Biochemical Oxygen Demand	ND	5.0	mg/L							
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Blank (AG63969-BLK2)

Prepared: 07/22/16 Analyzed: 07/27/16

Biochemical Oxygen Demand	ND	5.0	mg/L							
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Project Manager: John Simonetti
Project: WQ Monitoring
Project Number: [none]

Reported:
08/05/16 16:14

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 AG63969 - General Preparation									
LCS (AG63969-BS1)				Prepared: 07/20/16 Analyzed: 07/25/16					
Biochemical Oxygen Demand	212	5.0	mg/L	200	106	84-115			
Duplicate (AG63969-DUP1)				Source: 16G2149-01 Prepared: 07/22/16 Analyzed: 07/27/16					
Biochemical Oxygen Demand	180	5.0	mg/L		203		11.9	30	
Batch AG63987 - General Preparation									
Blank (AG63987-BLK1)				Prepared: 07/27/16 Analyzed: 07/29/16					
Total Dissolved Solids	ND	10	mg/L						
Duplicate (AG63987-DUP1)				Source: 16G2043-03 Prepared: 07/27/16 Analyzed: 07/29/16					
Total Dissolved Solids	220	10	mg/L		212		3.70	15	
Duplicate (AG63987-DUP2)				Source: 16G1859-02 Prepared: 07/27/16 Analyzed: 07/29/16					
Total Dissolved Solids	243	10	mg/L		257		5.60	15	
Batch AG63995 - General Preparation									
Blank (AG63995-BLK1)				Prepared: 07/26/16 Analyzed: 07/29/16					
Total Suspended Solids	ND	1.0	mg/L						
Duplicate (AG63995-DUP1)				Source: 16G1946-01 Prepared: 07/26/16 Analyzed: 07/29/16					
Total Suspended Solids	88.2	1.0	mg/L		116		27.3	30	
Duplicate (AG63995-DUP2)				Source: 16G1952-02 Prepared: 07/26/16 Analyzed: 07/29/16					
Total Suspended Solids	492	1.0	mg/L		406		19.1	30	



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Reported:
08/05/16 16:14

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 AG64039 - General Prep										
LCS (AG64039-BS1)				Prepared: 07/29/16 Analyzed: 08/04/16						
Total Kjeldahl Nitrogen	2.95	1.0	mg/L	2.98		99.0	80-120			
LCS Dup (AG64039-BS1)				Prepared: 07/29/16 Analyzed: 08/04/16						
Total Kjeldahl Nitrogen	2.95	1.0	mg/L	2.98		99.0	80-120	0.00	20	
Matrix Spike (AG64039-MS1)				Source: 16G1826-01		Prepared: 08/02/16 Analyzed: 08/04/16				
Total Kjeldahl Nitrogen	93.2	1.0	mg/L	22.6	68.6	108	75-125			
Matrix Spike Dup (AG64039-MS1)				Source: 16G1826-01		Prepared: 08/02/16 Analyzed: 08/04/16				
Total Kjeldahl Nitrogen	93.2	1.0	mg/L	22.6	68.6	108	75-125	0.00	20	
Batch AG64063 - Metals Digest										
Blank (AG64063-BLK1)				Prepared: 07/29/16 Analyzed: 08/02/16						
Hardness, Total	ND	5	mg/L							
Duplicate (AG64063-DUP1)				Source: 16G2024-02		Prepared: 07/29/16 Analyzed: 08/02/16				
Hardness, Total	130	5	mg/L		128			1.20	20	
Batch AH63124 - General Prep										
Blank (AH63124-BLK1)				Prepared & Analyzed: 08/01/16						
Phosphorus, total	ND	0.040	mg/L							
LCS (AH63124-BS1)				Prepared & Analyzed: 08/01/16						
Phosphorus, total	0.196	0.040	mg/L	0.200		98.0	85-115			

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Reported:
08/05/16 16:14

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 AH63124 - General Prep										
Duplicate (AH63124-DUP1)		Source: 16G2493-01			Prepared & Analyzed: 08/01/16					
Phosphorus, total	ND	0.040	mg/L		ND			0.00	20	
Matrix Spike (AH63124-MS1)		Source: 16G2493-01			Prepared & Analyzed: 08/01/16					
Phosphorus, total	0.188	0.040	mg/L	0.200	ND	83.8	70-130			
Matrix Spike Dup (AH63124-MSD1)		Source: 16G2493-01			Prepared & Analyzed: 08/01/16					
Phosphorus, total	0.189	0.040	mg/L	0.200	ND	84.5	70-130	0.700	20	
Batch AH63227 - General Preparation										
Blank (AH63227-BLK1)		Prepared & Analyzed: 08/03/16								
Ammonia as NH3	ND	0.50	mg/L							
LCS (AH63227-BS1)		Prepared & Analyzed: 08/03/16								
Ammonia as NH3	5.85	0.50	mg/L	6.10		96.0	90-110			
LCS Dup (AH63227-BSD1)		Prepared & Analyzed: 08/03/16								
Ammonia as NH3	6.07	0.50	mg/L	6.10		99.5	90-110	3.57	10	



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

Reported:
08/05/16 16:14

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 AG63805 - General Preparation										
Blank (AG63805-BLK1)				Prepared & Analyzed: 07/22/16						
Chloride	ND	0.50	mg/L							
Sulfate as SO4	ND	0.50	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							
Nitrite as NO2	ND	1.0	mg/L							
LCS (AG63805-BS1)				Prepared & Analyzed: 07/22/16						
Nitrate as NO3	26	1.0	mg/L	24.7		105	90-110			
Sulfate as SO4	23.2	0.50	mg/L	22.2		104	90-110			
Chloride	11.5	0.50	mg/L	11.1		104	90-110			
Nitrate as N	5.87	0.20	mg/L	5.56		106	90-110			
Nitrite as N	5.58	0.20	mg/L	5.56		100	90-110			
Nitrite as NO2	18.3	1.0	mg/L	18.2		101	90-110			
Duplicate (AG63805-DUP1)				Source: 16G2020-01		Prepared & Analyzed: 07/23/16				
Nitrate as NO3	ND	1.0	mg/L		ND			0.494	20	
Chloride	40.7	2.5	mg/L		41.2			1.32	20	
Nitrite as N	ND	0.20	mg/L		ND				20	
Nitrite as NO2	ND	1.0	mg/L		ND				20	
Sulfate as SO4	28.9	0.50	mg/L		29.0			0.166	20	
Nitrate as N	ND	0.20	mg/L		ND			0.494	20	
Matrix Spike (AG63805-MS1)				Source: 16G2020-01		Prepared & Analyzed: 07/23/16				
Nitrite as N	3.33	1.0	mg/L	5.56	ND	59.9	80-120			QM-05
Chloride	51.8	2.5	mg/L	11.1	41.2	95.5	80-120			
Nitrate as NO3	26	5.0	mg/L	24.7	ND	103	80-120			
Nitrate as N	5.79	1.0	mg/L	5.56	ND	103	80-120			
Nitrite as NO2	10.9	5.0	mg/L	18.2	ND	60.0	80-120			QM-05
Sulfate as SO4	52.9	2.5	mg/L	22.2	29.0	108	80-120			

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

Reported:
08/05/16 16:14

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 AG63805 - General Preparation

Matrix Spike (AG63805-MS2)

Source: 16G1957-01

Prepared & Analyzed: 07/23/16

Nitrate as N	6.08	1.0	mg/L	5.56	ND	106	80-120			
Sulfate as SO4	63.9	2.5	mg/L	22.2	39.1	111	80-120			
Nitrate as NO3	27	5.0	mg/L	24.7	ND	105	80-120			
Chloride	30.3	2.5	mg/L	11.1	17.5	115	80-120			
Nitrite as NO2	18.0	5.0	mg/L	18.2	ND	98.8	80-120			
Nitrite as N	5.48	1.0	mg/L	5.56	ND	98.6	80-120			

Matrix Spike Dup (AG63805-MSD1)

Source: 16G2020-01

Prepared & Analyzed: 07/23/16

Sulfate as SO4	52.9	2.5	mg/L	22.2	29.0	108	80-120	0.0735	20	
Nitrate as NO3	26	5.0	mg/L	24.7	ND	104	80-120	0.669	20	
Nitrate as N	5.83	1.0	mg/L	5.56	ND	104	80-120	0.669	20	
Nitrite as NO2	11.0	5.0	mg/L	18.2	ND	60.3	80-120	0.500	20	QM-05
Nitrite as N	3.34	1.0	mg/L	5.56	ND	60.2	80-120	0.500	20	QM-05
Chloride	52.1	2.5	mg/L	11.1	41.2	97.8	80-120	0.481	20	



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08/05/16 16:14

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.
- 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

