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Alpha

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

ELAP Certificates 1551, 2728, and 2922

02 August 2016

West Bay Sanitary District

Attn: John Simonetti

500 Laurel Street

Menlo Park, CA 94025

RE: WQ Monitoring

Work Order: 16G1518

Enclosed are the results of analyses for samples received by the laboratory on 07/18/16 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:
08/02/16 16:09

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
G13104 / 071516A	16G1518-01	Water	07/16/16 08:30	07/18/16 21:00
G13220 / 071516B	16G1518-02	Water	07/16/16 09:00	07/18/16 21:00
G13223 / 071516C	16G1518-03	Water	07/16/16 09:30	07/18/16 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:
08/02/16 16:09

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13104 / 071516A (16G1518-01)		Sample Type: Water			Sampled: 07/16/16 08:30			
Metals (Drinking Water) by EPA 200 Series Methods								
Potassium	16 mg/L	1.0	1	AG63917	07/26/16 12:30	07/29/16 15:05	EPA 200.7	
Metals by EPA 200 Series Methods								
Aluminum	0.66 mg/L	0.050	1	AG63917	07/26/16 12:30	07/29/16 15:05	EPA 200.7	
Boron	0.17 mg/L	0.050	1	AG63917	07/26/16 12:30	07/29/16 15:05	EPA 200.7	
Calcium	18 mg/L	1.0	1	AG63917	07/26/16 12:30	07/29/16 15:05	EPA 200.7	
Iron	1.6 mg/L	0.10	1	AG63917	07/26/16 12:30	07/29/16 15:05	EPA 200.7	
Magnesium	5.1 mg/L	1.0	1	AG63917	07/26/16 12:30	07/29/16 15:05	EPA 200.7	
Manganese	0.067 mg/L	0.020	1	AG63917	07/26/16 12:30	07/29/16 15:05	EPA 200.7	
Sodium	46 mg/L	1.0	1	AG63917	07/26/16 12:30	07/29/16 15:05	EPA 200.7	
Zinc	0.23 mg/L	0.020	1	AG63917	07/26/16 12:30	07/29/16 15:05	EPA 200.7	
Conventional Chemistry Parameters by APHA/EPA Methods								
Ammonia as NH3	48 mg/L	0.50	1	AG64041	07/29/16 08:13	07/29/16 17:00	SM4500NH3C	
Bicarbonate	270 mg/L	5.0	1	AG63679	07/26/16 08:00	07/26/16 14:20	SM2320B	
Biochemical Oxygen Demand	220 mg/L	5.0	1	AG63867	07/20/16 07:00	07/25/16 12:00	SM5210B	T-16
pH	7.44 pH Units	1.68	1	AG63678	07/18/16 19:00	07/18/16 19:00	SM4500-H+ B	T-14
Specific Conductance (EC)	790 umhos/cm	20	1	AG63734	07/19/16 16:00	07/19/16 17:00	SM2510B	
Total Dissolved Solids	380 mg/L	10	1	AG63763	07/21/16 12:24	07/26/16 16:38	SM2540C	
Total Suspended Solids	260 mg/L	1.0	1	AG63705	07/20/16 09:55	07/25/16 09:37	SM2540D	
Volatile Suspended Solids	240 mg/L	1.0	1	AG63711	07/22/16 10:00	07/25/16 16:30	EPA 160.4	
Silica	14 mg/L	5.0	5	AG63694	07/20/16 08:30	07/20/16 10:30	SM4500-SiO2 C	
Bicarbonate Alkalinity as CaCO3	220 mg/L	5.0	1	AG63679	07/26/16 08:00	07/26/16 14:20	SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AG63679	07/26/16 08:00	07/26/16 14:20	SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AG63679	07/26/16 08:00	07/26/16 14:20	SM2320B	
Total Alkalinity as CaCO3	220 mg/L	5.0	1	AG63679	07/26/16 08:00	07/26/16 14:20	SM2320B	
Total Kjeldahl Nitrogen	53 mg/L	1.0	1	AG63695	07/25/16 08:04	07/26/16 09:38	SM4500-Norg B	
Total Nitrogen	53 mg/L	1.0	1	AG63717	07/20/16 12:32	07/26/16 13:59	SM4500-N	
Hardness, Total	65 mg/L	5	1	AG63917	07/26/16 12:30	07/29/16 15:05	SM2340B	
Phosphorus, total	7.6 mg/L	2.0	5	AG63991	07/28/16 09:15	07/28/16 13:06	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:
08/02/16 16:09

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13104 / 071516A (16G1518-01)		Sample Type: Water			Sampled: 07/16/16 08:30			
Miscellaneous Physical/Conventional Chemistry Parameters								
Sodium Adsorption Ratio-Adj RNA	2.73 NA		1	AG63917	07/26/16 12:30	08/02/16 05:56	SAR	
Anions by EPA Method 300.0								
Chloride	55 mg/L	5.0	10	AG63645	07/19/16 17:46	07/19/16 17:46	EPA 300.0	
Nitrate as N	ND mg/L	0.20	1	AG63645	07/19/16 18:02	07/19/16 18:02	EPA 300.0	T-5
Nitrate as NO3	ND mg/L	1.0	1	AG63645	07/19/16 18:02	07/19/16 18:02	EPA 300.0	T-5
Nitrite as N	ND mg/L	0.20	1	AG63645	07/19/16 18:02	07/19/16 18:02	EPA 300.0	T-5
Nitrite as NO2	ND mg/L	1.0	1	AG63645	07/19/16 18:02	07/19/16 18:02	EPA 300.0	T-5
Sulfate as SO4	32 mg/L	0.50	1	AG63645	07/19/16 18:02	07/19/16 18:02	EPA 300.0	
G13220 / 071516B (16G1518-02)		Sample Type: Water			Sampled: 07/16/16 09:00			
Metals (Drinking Water) by EPA 200 Series Methods								
Potassium	15 mg/L	1.0	1	AG63917	07/26/16 12:30	07/29/16 15:10	EPA 200.7	
Metals by EPA 200 Series Methods								
Aluminum	0.95 mg/L	0.050	1	AG63917	07/26/16 12:30	07/29/16 15:10	EPA 200.7	
Boron	0.27 mg/L	0.050	1	AG63917	07/26/16 12:30	07/29/16 15:10	EPA 200.7	
Calcium	39 mg/L	1.0	1	AG63917	07/26/16 12:30	07/29/16 15:10	EPA 200.7	
Iron	2.3 mg/L	0.10	1	AG63917	07/26/16 12:30	07/29/16 15:10	EPA 200.7	
Magnesium	16 mg/L	1.0	1	AG63917	07/26/16 12:30	07/29/16 15:10	EPA 200.7	
Manganese	0.059 mg/L	0.020	1	AG63917	07/26/16 12:30	07/29/16 15:10	EPA 200.7	
Sodium	82 mg/L	1.0	1	AG63917	07/26/16 12:30	07/29/16 15:10	EPA 200.7	
Zinc	0.24 mg/L	0.020	1	AG63917	07/26/16 12:30	07/29/16 15:10	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:
08/02/16 16:09

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note	
G13220 / 071516B (16G1518-02)		Sample Type: Water			Sampled: 07/16/16 09:00				
Conventional Chemistry Parameters by APHA/EPA Methods									
Ammonia as NH3	49 mg/L	0.50	1	AG64041	07/29/16 08:13	07/29/16 17:00	SM4500NH3C		
Bicarbonate	310 mg/L	5.0	1	AG63679	07/26/16 08:00	07/26/16 14:20	SM2320B		
Biochemical Oxygen Demand	290 mg/L	5.0	1	AG63867	07/20/16 07:00	07/25/16 12:00	SM5210B	T-16	
pH	7.48 pH Units	1.68	1	AG63678	07/18/16 19:00	07/18/16 19:00	SM4500-H+ B	T-14	
Specific Conductance (EC)	1000 umhos/cm	20	1	AG63734	07/19/16 16:00	07/19/16 17:00	SM2510B		
Total Dissolved Solids	520 mg/L	10	1	AG63763	07/21/16 12:24	07/26/16 16:38	SM2540C		
Total Suspended Solids	820 mg/L	1.0	1	AG63705	07/20/16 09:55	07/25/16 09:37	SM2540D		
Volatile Suspended Solids	750 mg/L	1.0	1	AG63711	07/22/16 10:00	07/25/16 16:30	EPA 160.4		
Silica	20 mg/L	5.0	5	AG63694	07/20/16 08:30	07/20/16 10:30	SM4500-SiO2 C		
Bicarbonate Alkalinity as CaCO3	260 mg/L	5.0	1	AG63679	07/26/16 08:00	07/26/16 14:20	SM2320B		
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AG63679	07/26/16 08:00	07/26/16 14:20	SM2320B		
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AG63679	07/26/16 08:00	07/26/16 14:20	SM2320B		
Total Alkalinity as CaCO3	260 mg/L	5.0	1	AG63679	07/26/16 08:00	07/26/16 14:20	SM2320B		
Total Kjeldahl Nitrogen	41 mg/L	1.0	1	AG63695	07/26/16 08:04	07/26/16 13:02	SM4500-Norg B		
Total Nitrogen	41 mg/L	1.0	1	AG63717	07/20/16 12:32	07/26/16 13:59	SM4500-N		
Hardness, Total	164 mg/L	5	1	AG63917	07/26/16 12:30	07/29/16 15:10	SM2340B		
Phosphorus, total	6.4 mg/L	2.0	5	AG63991	07/28/16 09:15	07/28/16 13:06	SM4500-P E		
Miscellaneous Physical/Conventional Chemistry Parameters									
Sodium Adsorption Ratio-Adj RNA	3.25 NA		1	AG63917	07/26/16 12:30	08/02/16 05:56	SAR		
Anions by EPA Method 300.0									
Chloride	80 mg/L	12	25	AG63645	07/19/16 18:18	07/19/16 18:18	EPA 300.0		
Nitrate as N	ND mg/L	0.20	1	AG63645	07/19/16 18:34	07/19/16 18:34	EPA 300.0	T-5	
Nitrate as NO3	ND mg/L	1.0	1	AG63645	07/19/16 18:34	07/19/16 18:34	EPA 300.0	T-5	
Nitrite as N	ND mg/L	0.20	1	AG63645	07/19/16 18:34	07/19/16 18:34	EPA 300.0	T-5	
Nitrite as NO2	ND mg/L	1.0	1	AG63645	07/19/16 18:34	07/19/16 18:34	EPA 300.0	T-5	
Sulfate as SO4	100 mg/L	12	25	AG63645	07/19/16 18:18	07/19/16 18:18	EPA 300.0		
G13223 / 071516C (16G1518-03)		Sample Type: Water			Sampled: 07/16/16 09:30				
Metals (Drinking Water) by EPA 200 Series Methods									
Potassium	17 mg/L	1.0	1	AG63917	07/26/16 12:30	07/29/16 15:14	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:
08/02/16 16:09

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13223 / 071516C (16G1518-03)		Sample Type: Water			Sampled: 07/16/16 09:30			
Metals by EPA 200 Series Methods								
Aluminum	0.94 mg/L	0.050	1	AG63917	07/26/16 12:30	07/29/16 15:14	EPA 200.7	
Boron	0.25 mg/L	0.050	1	AG63917	07/26/16 12:30	07/29/16 15:14	EPA 200.7	
Calcium	25 mg/L	1.0	1	AG63917	07/26/16 12:30	07/29/16 15:14	EPA 200.7	
Iron	2.0 mg/L	0.10	1	AG63917	07/26/16 12:30	07/29/16 15:14	EPA 200.7	
Magnesium	7.8 mg/L	1.0	1	AG63917	07/26/16 12:30	07/29/16 15:14	EPA 200.7	
Manganese	0.059 mg/L	0.020	1	AG63917	07/26/16 12:30	07/29/16 15:14	EPA 200.7	
Sodium	66 mg/L	1.0	1	AG63917	07/26/16 12:30	07/29/16 15:14	EPA 200.7	
Zinc	0.23 mg/L	0.020	1	AG63917	07/26/16 12:30	07/29/16 15:14	EPA 200.7	
Conventional Chemistry Parameters by APHA/EPA Methods								
Ammonia as NH3	52 mg/L	0.50	1	AG64041	07/29/16 08:13	07/29/16 17:00	SM4500NH3C	
Bicarbonate	290 mg/L	5.0	1	AG63679	07/26/16 08:00	07/26/16 14:20	SM2320B	
Biochemical Oxygen Demand	280 mg/L	5.0	1	AG63867	07/20/16 07:00	07/25/16 12:00	SM5210B	T-16
pH	7.41 pH Units	1.68	1	AG63678	07/18/16 19:00	07/18/16 19:00	SM4500-H+ B	T-14
Specific Conductance (EC)	890 umhos/cm	20	1	AG63734	07/19/16 16:00	07/19/16 17:00	SM2510B	
Total Dissolved Solids	520 mg/L	10	1	AG63763	07/21/16 12:24	07/26/16 16:38	SM2540C	
Total Suspended Solids	190 mg/L	1.0	1	AG63677	07/19/16 11:16	07/20/16 15:23	SM2540D	
Volatile Suspended Solids	190 mg/L	1.0	1	AG63711	07/22/16 10:00	07/25/16 16:30	EPA 160.4	
Silica	20 mg/L	5.0	5	AG63694	07/20/16 08:30	07/20/16 10:30	SM4500-SiO2 C	
Bicarbonate Alkalinity as CaCO3	240 mg/L	5.0	1	AG63679	07/26/16 08:00	07/26/16 14:20	SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AG63679	07/26/16 08:00	07/26/16 14:20	SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AG63679	07/26/16 08:00	07/26/16 14:20	SM2320B	
Total Alkalinity as CaCO3	240 mg/L	5.0	1	AG63679	07/26/16 08:00	07/26/16 14:20	SM2320B	
Total Kjeldahl Nitrogen	46 mg/L	1.0	1	AG63695	07/26/16 08:04	07/26/16 13:02	SM4500-Norg B	
Total Nitrogen	46 mg/L	1.0	1	AG63717	07/20/16 12:32	07/26/16 13:59	SM4500-N	
Hardness, Total	94 mg/L	5	1	AG63917	07/26/16 12:30	07/29/16 15:14	SM2340B	
Phosphorus, total	6.4 mg/L	2.0	5	AG63991	07/28/16 09:15	07/28/16 13:06	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:
08/02/16 16:09

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13223 / 071516C (16G1518-03)		Sample Type: Water			Sampled: 07/16/16 09:30			
Miscellaneous Physical/Conventional Chemistry Parameters								
Sodium Adsorption Ratio-Adj RNA	3.35 NA		1	AG63917	07/26/16 12:30	08/02/16 05:56	SAR	
Anions by EPA Method 300.0								
Chloride	71 mg/L	10	20	AG63645	07/19/16 18:50	07/19/16 18:50	EPA 300.0	
Nitrate as N	ND mg/L	0.20	1	AG63645	07/19/16 19:06	07/19/16 19:06	EPA 300.0	T-5
Nitrate as NO3	ND mg/L	1.0	1	AG63645	07/19/16 19:06	07/19/16 19:06	EPA 300.0	T-5
Nitrite as N	ND mg/L	0.20	1	AG63645	07/19/16 19:06	07/19/16 19:06	EPA 300.0	T-5
Nitrite as NO2	ND mg/L	1.0	1	AG63645	07/19/16 19:06	07/19/16 19:06	EPA 300.0	T-5
Sulfate as SO4	50 mg/L	10	20	AG63645	07/19/16 18:50	07/19/16 18:50	EPA 300.0	



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Project Number: [none]

Reported:
08/02/16 16:09

Metals (Drinking Water) 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 AG63917 - Metals Digest										
Blank (AG63917-BLK1)				Prepared: 07/26/16 Analyzed: 07/29/16						
Potassium	ND	1.0	mg/L							
LCS (AG63917-BS1)				Prepared: 07/26/16 Analyzed: 07/29/16						
Potassium	7.08	1.0	mg/L	8.00		88.6	85-115			
Duplicate (AG63917-DUP1)				Source: 16G1530-08 Prepared: 07/26/16 Analyzed: 07/29/16						
Potassium	19.9	1.0	mg/L		19.0			4.51	20	
Matrix Spike (AG63917-MS1)				Source: 16G1530-08 Prepared: 07/26/16 Analyzed: 07/29/16						
Potassium	27.7	1.0	mg/L	8.00	19.0	108	70-130			
Matrix Spike (AG63917-MS2)				Source: 16G1930-01 Prepared: 07/26/16 Analyzed: 07/29/16						
Potassium	9.07	1.0	mg/L	8.00	2.61	80.8	70-130			
Matrix Spike Dup (AG63917-MSD1)				Source: 16G1530-08 Prepared: 07/26/16 Analyzed: 07/29/16						
Potassium	27.3	1.0	mg/L	8.00	19.0	103	70-130	1.41	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:
08/02/16 16:09

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 AG63917 - Metals Digest										
Blank (AG63917-BLK1)				Prepared: 07/26/16 Analyzed: 07/29/16						
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 (AG63917-BS1)				Prepared: 07/26/16 Analyzed: 07/29/16						
Aluminum	1.81	0.050	mg/L	2.00		90.3	85-115			
Boron	0.342	0.050	mg/L	0.400		85.5	85-115			
Calcium	7.24	1.0	mg/L	8.00		90.5	85-115			
Iron	1.89	0.10	mg/L	2.00		94.4	85-115			
Magnesium	7.11	1.0	mg/L	8.00		88.9	85-115			
Manganese	0.185	0.020	mg/L	0.200		92.4	85-115			
Sodium	7.63	1.0	mg/L	8.00		95.4	85-115			
Zinc	0.181	0.020	mg/L	0.200		90.5	85-115			
Duplicate (AG63917-DUP1)				Source: 16G1530-08 Prepared: 07/26/16 Analyzed: 07/29/16						
Aluminum	0.102	0.050	mg/L		0.0954			6.75	20	
Boron	0.445	0.050	mg/L		0.418			6.38	20	
Calcium	107	1.0	mg/L		104			2.68	20	
Iron	0.113	0.10	mg/L		ND			13.3	20	
Magnesium	45.6	1.0	mg/L		43.5			4.72	20	
Manganese	ND	0.020	mg/L		ND			9.57	20	
Sodium	171	1.0	mg/L		166			3.09	20	
Zinc	0.0236	0.020	mg/L		0.0219			7.21	20	

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

Reported:
08/02/16 16:09

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 AG63917 - Metals Digest										
Matrix Spike (AG63917-MS1)		Source: 16G1530-08			Prepared: 07/26/16		Analyzed: 07/29/16			
Aluminum	1.98	0.050	mg/L	2.00	0.0954	94.2	70-130			
Boron	0.803	0.050	mg/L	0.400	0.418	96.4	70-130			
Calcium	114	1.0	mg/L	8.00	104	131	70-130			QM-4X
Iron	2.02	0.10	mg/L	2.00	ND	95.9	70-130			
Magnesium	53.5	1.0	mg/L	8.00	43.5	125	70-130			
Manganese	0.197	0.020	mg/L	0.200	ND	95.0	70-130			
Sodium	177	1.0	mg/L	8.00	166	147	70-130			QM-4X
Zinc	0.212	0.020	mg/L	0.200	0.0219	95.3	70-130			
Matrix Spike (AG63917-MS2)		Source: 16G1930-01			Prepared: 07/26/16		Analyzed: 07/29/16			
Aluminum	1.71	0.050	mg/L	2.00	ND	85.3	70-130			
Boron	0.384	0.050	mg/L	0.400	ND	83.8	70-130			
Calcium	26.7	1.0	mg/L	8.00	20.9	72.6	70-130			
Iron	4.93	0.10	mg/L	2.00	3.45	74.2	70-130			
Magnesium	19.3	1.0	mg/L	8.00	12.8	81.2	70-130			
Manganese	0.595	0.020	mg/L	0.200	0.458	68.6	70-130			QM-01
Sodium	24.9	1.0	mg/L	8.00	19.1	72.9	70-130			
Zinc	0.187	0.020	mg/L	0.200	ND	88.4	70-130			
Matrix Spike Dup (AG63917-MSD1)		Source: 16G1530-08			Prepared: 07/26/16		Analyzed: 07/29/16			
Aluminum	1.94	0.050	mg/L	2.00	0.0954	92.3	70-130	1.92	20	
Boron	0.790	0.050	mg/L	0.400	0.418	93.1	70-130	1.66	20	
Calcium	111	1.0	mg/L	8.00	104	96.0	70-130	2.49	20	
Iron	1.98	0.10	mg/L	2.00	ND	94.2	70-130	1.69	20	
Magnesium	52.3	1.0	mg/L	8.00	43.5	110	70-130	2.27	20	
Manganese	0.193	0.020	mg/L	0.200	ND	93.1	70-130	1.87	20	
Sodium	173	1.0	mg/L	8.00	166	97.7	70-130	2.26	20	
Zinc	0.209	0.020	mg/L	0.200	0.0219	93.6	70-130	1.61	20	

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

Reported:
08/02/16 16:09

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 AG63677 - General Preparation										
Blank (AG63677-BLK1)				Prepared: 07/19/16 Analyzed: 07/20/16						
Total Suspended Solids	ND	1.0	mg/L							
Duplicate (AG63677-DUP1)				Source: 16G1027-01 Prepared: 07/19/16 Analyzed: 07/20/16						
Total Suspended Solids	154	1.0	mg/L		149			3.45	30	
Batch AG63678 - General Preparation										
Duplicate (AG63678-DUP1)				Source: 16G1518-01 Prepared & Analyzed: 07/18/16						
pH	7.40	1.68	pH Units		7.44			0.539	20	
Batch AG63679 - General Preparation										
Duplicate (AG63679-DUP1)				Source: 16G1322-01 Prepared & Analyzed: 07/26/16						
Bicarbonate	89.1	5.0	mg/L		90.3			1.36	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	73.0	5.0	mg/L		74.0			1.36	20	
Bicarbonate Alkalinity as CaCO3	73.0	5.0	mg/L		74.0			1.36	20	
Batch AG63694 - General Preparation										
Blank (AG63694-BLK1)				Prepared & Analyzed: 07/20/16						
Silica	ND	1.0	mg/L							
LCS (AG63694-BS1)				Prepared & Analyzed: 07/20/16						
Silica	9.41	1.0	mg/L	10.0		94.1	85-115			

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Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AG63694 - General Preparation										
LCS Dup (AG63694-BSD1)				Prepared & Analyzed: 07/20/16						
Silica	8.83	1.0	mg/L	10.0		88.3	85-115	6.33	20	
Duplicate (AG63694-DUP1)				Source: 16G1536-02 Prepared & Analyzed: 07/20/16						
Silica	9.41	1.0	mg/L		9.91			5.18	20	
Matrix Spike (AG63694-MS1)				Source: 16G1536-02 Prepared & Analyzed: 07/20/16						
Silica	12.3	1.0	mg/L	5.00	9.91	48.5	80-120			QM-05
Matrix Spike Dup (AG63694-MSD1)				Source: 16G1536-02 Prepared & Analyzed: 07/20/16						
Silica	12.4	1.0	mg/L	5.00	9.91	50.8	80-120	0.932	20	QM-05
Batch AG63695 - General Prep										
LCS (AG63695-BS1)				Prepared: 07/20/16 Analyzed: 07/25/16						
Total Kjeldahl Nitrogen	2.95	1.0	mg/L	2.98		99.0	80-120			
LCS Dup (AG63695-BSD1)				Prepared: 07/20/16 Analyzed: 07/25/16						
Total Kjeldahl Nitrogen	2.95	1.0	mg/L	2.98		99.0	80-120	0.00	20	
Matrix Spike (AG63695-MS1)				Source: 16G1237-01 Prepared: 07/20/16 Analyzed: 07/25/16						
Total Kjeldahl Nitrogen	3.13	1.0	mg/L	2.98	ND	105	75-125			
Matrix Spike Dup (AG63695-MSD1)				Source: 16G1237-01 Prepared: 07/20/16 Analyzed: 07/25/16						
Total Kjeldahl Nitrogen	3.13	1.0	mg/L	2.98	ND	105	75-125	0.00	20	
Batch AG63705 - General Preparation										
Blank (AG63705-BLK1)				Prepared: 07/20/16 Analyzed: 07/25/16						
Total Suspended Solids	ND	1.0	mg/L							

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Project: WQ Monitoring
Project Number: [none]

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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 AG63705 - General Preparation										
Duplicate (AG63705-DUP1) Source: 16G1518-01 Prepared: 07/20/16 Analyzed: 07/25/16										
Total Suspended Solids	255	1.0	mg/L		259			1.44	30	
Duplicate (AG63705-DUP2) Source: 16G1521-03 Prepared: 07/20/16 Analyzed: 07/25/16										
Total Suspended Solids	217	1.0	mg/L		250			14.2	30	
Batch AG63711 - General Preparation										
Blank (AG63711-BLK1) Prepared: 07/22/16 Analyzed: 07/25/16										
Volatile Suspended Solids	ND	1.0	mg/L							
Duplicate (AG63711-DUP1) Source: 16G1518-01 Prepared: 07/22/16 Analyzed: 07/25/16										
Volatile Suspended Solids	230	1.0	mg/L		236			2.70	30	
Duplicate (AG63711-DUP2) Source: 16G1521-03 Prepared: 07/22/16 Analyzed: 07/25/16										
Volatile Suspended Solids	193	1.0	mg/L		222			14.0	30	
Batch AG63734 - General Preparation										
Duplicate (AG63734-DUP1) Source: 16G1599-01 Prepared & Analyzed: 07/19/16										
Specific Conductance (EC)	645	20	umhos/cm		646			0.155	5	
Batch AG63763 - General Preparation										
Blank (AG63763-BLK1) Prepared: 07/21/16 Analyzed: 07/26/16										
Total Dissolved Solids	ND	10	mg/L							



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Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AG63763 - General Preparation										
Duplicate (AG63763-DUP1) Source: 16G1545-01 Prepared: 07/21/16 Analyzed: 07/26/16										
Total Dissolved Solids	332	10	mg/L		375			12.1	15	
Batch AG63867 - General Preparation										
Blank (AG63867-BLK1) Prepared: 07/20/16 Analyzed: 07/25/16										
Biochemical Oxygen Demand	ND	5.0	mg/L							
Blank (AG63867-BLK2) Prepared: 07/20/16 Analyzed: 07/25/16										
Biochemical Oxygen Demand	ND	5.0	mg/L							
LCS (AG63867-BS1) Prepared: 07/20/16 Analyzed: 07/25/16										
Biochemical Oxygen Demand	212	5.0	mg/L	200		106	84-115			
Duplicate (AG63867-DUP1) Source: 16G1524-03 Prepared: 07/20/16 Analyzed: 07/25/16										
Biochemical Oxygen Demand	210	5.0	mg/L		221			5.10	30	
Batch AG63917 - Metals Digest										
Blank (AG63917-BLK1) Prepared: 07/26/16 Analyzed: 07/29/16										
Hardness, Total	ND	5	mg/L							
Duplicate (AG63917-DUP1) Source: 16G1530-08 Prepared: 07/26/16 Analyzed: 07/29/16										
Hardness, Total	454	5	mg/L		438			3.52	20	
Batch AG63991 - General Prep										
Blank (AG63991-BLK1) Prepared & Analyzed: 07/28/16										
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
Batch AG63991 - General Prep										
LCS (AG63991-BS1)				Prepared & Analyzed: 07/28/16						
Phosphorus, total	0.192	0.040	mg/L	0.200		95.9	85-115			
Duplicate (AG63991-DUP1)				Source: 16G1518-01 Prepared & Analyzed: 07/28/16						
Phosphorus, total	7.50	2.0	mg/L		7.57			0.889	20	
Matrix Spike (AG63991-MS1)				Source: 16G1518-01 Prepared & Analyzed: 07/28/16						
Phosphorus, total	8.78	2.0	mg/L	2.00	7.57	60.6	70-130			QM-4X
Matrix Spike Dup (AG63991-MSD1)				Source: 16G1518-01 Prepared & Analyzed: 07/28/16						
Phosphorus, total	8.78	2.0	mg/L	2.00	7.57	60.6	70-130	0.00	20	QM-4X
Batch AG64041 - General Preparation										
Blank (AG64041-BLK1)				Prepared & Analyzed: 07/29/16						
Ammonia as NH3	ND	0.50	mg/L							
LCS (AG64041-BS1)				Prepared & Analyzed: 07/29/16						
Ammonia as NH3	5.96	0.50	mg/L	6.10		97.7	90-110			
LCS Dup (AG64041-BSD1)				Prepared & Analyzed: 07/29/16						
Ammonia as NH3	5.85	0.50	mg/L	6.10		96.0	90-110	1.81	10	
Matrix Spike (AG64041-MS1)				Source: 16G1636-02 Prepared & Analyzed: 07/29/16						
Ammonia as NH3	12.3	0.50	mg/L	12.2	ND	101	85-115			
Matrix Spike Dup (AG64041-MSD1)				Source: 16G1636-02 Prepared & Analyzed: 07/29/16						
Ammonia as NH3	11.9	0.50	mg/L	12.2	ND	97.7	85-115	3.51	20	

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Project: WQ Monitoring
Project Number: [none]

Reported:
08/02/16 16:09

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 AG63645 - General Preparation										
Blank (AG63645-BLK1)				Prepared & Analyzed: 07/19/16						
Sulfate as SO4	ND	0.50	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							
Nitrite as N	ND	0.20	mg/L							
Chloride	ND	0.50	mg/L							
LCS (AG63645-BS1)				Prepared & Analyzed: 07/19/16						
Nitrate as N	5.86	0.20	mg/L	5.56		106	90-110			
Sulfate as SO4	22.9	0.50	mg/L	22.2		103	90-110			
Nitrite as NO2	18.3	1.0	mg/L	18.2		101	90-110			
Nitrate as NO3	26	1.0	mg/L	24.7		105	90-110			
Nitrite as N	5.58	0.20	mg/L	5.56		100	90-110			
Chloride	11.5	0.50	mg/L	11.1		103	90-110			
Duplicate (AG63645-DUP1)				Source: 16G1539-01			Prepared & Analyzed: 07/19/16			
Nitrite as NO2	ND	1.0	mg/L		ND				20	
Nitrite as N	ND	0.20	mg/L		ND				20	
Nitrate as N	0.518	0.20	mg/L		0.520			0.435	20	
Nitrate as NO3	2.3	1.0	mg/L		2.3			0.435	20	
Sulfate as SO4	ND	0.50	mg/L		ND			5.82	20	
Chloride	1.77	0.50	mg/L		1.81			2.46	20	
Matrix Spike (AG63645-MS1)				Source: 16G1539-01			Prepared & Analyzed: 07/19/16			
Chloride	13.4	0.50	mg/L	11.1	1.81	104	80-120			
Sulfate as SO4	23.6	0.50	mg/L	22.2	ND	105	80-120			
Nitrite as N	5.62	0.20	mg/L	5.56	ND	101	80-120			
Nitrate as NO3	29	1.0	mg/L	24.7	2.3	107	80-120			
Nitrate as N	6.47	0.20	mg/L	5.56	0.520	107	80-120			
Nitrite as NO2	18.5	1.0	mg/L	18.2	ND	101	80-120			

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Reported:
08/02/16 16:09

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 AG63645 - General Preparation

Matrix Spike Dup (AG63645-MSD1)

Source: 16G1539-01

Prepared & Analyzed: 07/19/16

Chloride	13.3	0.50	mg/L	11.1	1.81	104	80-120	0.433	20	
Nitrate as N	6.44	0.20	mg/L	5.56	0.520	107	80-120	0.493	20	
Nitrate as NO3	29	1.0	mg/L	24.7	2.3	106	80-120	0.493	20	
Sulfate as SO4	23.5	0.50	mg/L	22.2	ND	104	80-120	0.750	20	
Nitrite as N	5.57	0.20	mg/L	5.56	ND	100	80-120	0.834	20	
Nitrite as NO2	18.3	1.0	mg/L	18.2	ND	101	80-120	0.834	20	



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

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

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

Reported:
08/02/16 16:09

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-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-16 Sample prepared outside of recommended hold time. Client notified.
- T-5 Sample prepared outside of recommended holding time per client.
- ND Analyte NOT DETECTED at or above the reporting limit
- dry Sample results reported on a dry weight basis
- REC Recovery
- RPD Relative Percent Difference

Company/Name: West Bay Sanitary District		Project ID: WQ Monitoring		Signature below authorizes work under terms stated on reverse side.															Sample Notes		TAT																														
Mailing Address: 500 Laurel Street Menlo Park, CA 94025		Project No:		<table border="1"> <tr> <th colspan="15">Analysis Request</th> <th rowspan="2">Hardness Calc</th> <th rowspan="2">Lab Approval Required For Rush</th> </tr> <tr> <th>DU BOD</th> <th>DU pH</th> <th>200.7 - B, Ca, Mg, Na, Al, Fe, Mn, Zn</th> <th>Ammonia, Phosphorus</th> <th>Total Nitrogen</th> <th>Sulfate, Chloride, EC, NO2, NO3</th> <th>Alkalinity, Bicarbonate</th> <th>SAR Adjusted Calculation</th> <th>Silica</th> <th>TDS</th> <th>TSS</th> <th>VSS</th> <th colspan="3"></th> </tr> </table>															Analysis Request															Hardness Calc	Lab Approval Required For Rush	DU BOD	DU pH	200.7 - B, Ca, Mg, Na, Al, Fe, Mn, Zn	Ammonia, Phosphorus	Total Nitrogen	Sulfate, Chloride, EC, NO2, NO3	Alkalinity, Bicarbonate	SAR Adjusted Calculation	Silica	TDS	TSS	VSS				<input type="radio"/> 24 hr <input type="radio"/> 48 hr <input type="radio"/> 1 wk <input type="radio"/> 2 wk (standard)
Analysis Request																			Hardness Calc	Lab Approval Required For Rush																															
DU BOD	DU pH	200.7 - B, Ca, Mg, Na, Al, Fe, Mn, Zn	Ammonia, Phosphorus	Total Nitrogen	Sulfate, Chloride, EC, NO2, NO3	Alkalinity, Bicarbonate	SAR Adjusted Calculation	Silica	TDS	TSS	VSS																																								
Project Contact & Email (Hardcopy or PDF to): John Simonetti jsimonetti@westbaysanitary.org		PO#																																																	
Phone/Fax:		Site Contact: <i>John Simonetti</i>																																																	
Field Sampler - Print Name & Signature <i>John Simonetti</i>		Sample Collection		Container				Preservative				Matrix																																							
Sample Identification		Date Time		40ml Vial	Poly	Glass	Sleeve	Other	HCL	HNO3	H2SO4	Other	None	Water	Soil	Other																																			
G13104		7/15 7/16 0830		5					1	1			3	x			x	x	x	x	x	x	x	x	x	x	x	x	x	X																					
7-1516 A		7/16																																																	
G13220		7/16 0000		5					1	1			3	x			x	x	x	x	x	x	x	x	x	x	x	x	X																						
07-1516 B		7/16																																																	
G13223		7/16 0930		5					1	1			3	x			x	x	x	x	x	x	x	x	x	x	x	X																							
07-1516 C		7/16																																																	
Relinquished by: <i>[Signature]</i>		Received by: <i>[Signature]</i>		Date	Time	CDPH Write On EDT Report? Yes <input type="radio"/> No <input type="radio"/>																																													
Relinquished by: <i>[Signature]</i>		Received by: <i>RS</i>		7/16/16	1330	State System Number: _____																																													
Relinquished by: <i>RS</i>		Received by: <i>[Signature]</i>		7/18/16	1645	CA Geotracker EDF Report Yes <input type="radio"/> No <input type="radio"/>																																													
Relinquished by: <i>[Signature]</i>		Received by: <i>[Signature]</i>		7/18	1700	Sampling Company Log Code: _____																																													
Relinquished by: _____		Received by: _____		7/18	2100	Global ID: _____ EDF to (Email Address): _____																																													
Relinquished by: _____		Received by: _____		Date	Time	Travel and Site Time:			Mileage:			Misc. Supplies:																																							

Correct sample date per *Robbie* 7-19-16 *SS*



Alpha

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ELAP Certificates 1551, 2728, and 2922

02 August 2016

West Bay Sanitary District

Attn: John Simonetti

500 Laurel Street

Menlo Park, CA 94025

RE: WQ Monitoring

Work Order: 16G1521

Enclosed are the results of analyses for samples received by the laboratory on 07/18/16 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:
08/02/16 16:22

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
G13104 / 071616A	16G1521-01	Water	07/17/16 08:30	07/18/16 21:00
G13220 / 071616B	16G1521-02	Water	07/17/16 09:00	07/18/16 21:00
G13223 / 071616C	16G1521-03	Water	07/17/16 09:30	07/18/16 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:
08/02/16 16:22

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13104 / 071616A (16G1521-01)		Sample Type: Water			Sampled: 07/17/16 08:30			
Metals (Drinking Water) by EPA 200 Series Methods								
Potassium	17 mg/L	1.0	1	AG63917	07/26/16 12:30	07/29/16 15:19	EPA 200.7	
Metals by EPA 200 Series Methods								
Aluminum	1.2 mg/L	0.050	1	AG63917	07/26/16 12:30	07/29/16 15:19	EPA 200.7	
Boron	0.22 mg/L	0.050	1	AG63917	07/26/16 12:30	07/29/16 15:19	EPA 200.7	
Calcium	24 mg/L	1.0	1	AG63917	07/26/16 12:30	07/29/16 15:19	EPA 200.7	
Iron	3.6 mg/L	0.10	1	AG63917	07/26/16 12:30	07/29/16 15:19	EPA 200.7	
Magnesium	5.9 mg/L	1.0	1	AG63917	07/26/16 12:30	07/29/16 15:19	EPA 200.7	
Manganese	0.11 mg/L	0.020	1	AG63917	07/26/16 12:30	07/29/16 15:19	EPA 200.7	
Sodium	48 mg/L	1.0	1	AG63917	07/26/16 12:30	07/29/16 15:19	EPA 200.7	
Zinc	0.39 mg/L	0.020	1	AG63917	07/26/16 12:30	07/29/16 15:19	EPA 200.7	
Conventional Chemistry Parameters by APHA/EPA Methods								
Ammonia as NH3	60 mg/L	0.50	1	AG64041	07/29/16 08:13	07/29/16 17:00	SM4500NH3C	
Bicarbonate	300 mg/L	5.0	1	AG63679	07/26/16 08:00	07/26/16 14:20	SM2320B	
Biochemical Oxygen Demand	200 mg/L	5.0	1	AG63867	07/20/16 07:00	07/25/16 12:00	SM5210B	T-16
pH	7.58 pH Units	1.68	1	AG63678	07/18/16 19:00	07/18/16 19:00	SM4500-H+ B	T-14
Specific Conductance (EC)	810 umhos/cm	20	1	AG63734	07/19/16 16:00	07/19/16 17:00	SM2510B	
Total Dissolved Solids	400 mg/L	10	1	AG63763	07/21/16 12:24	07/26/16 16:38	SM2540C	
Total Suspended Solids	310 mg/L	1.0	1	AG63705	07/20/16 09:55	07/25/16 09:37	SM2540D	
Volatile Suspended Solids	290 mg/L	1.0	1	AG63711	07/22/16 10:00	07/25/16 16:30	EPA 160.4	
Silica	21 mg/L	5.0	5	AG63694	07/20/16 08:30	07/20/16 10:30	SM4500-SiO2 C	
Bicarbonate Alkalinity as CaCO3	250 mg/L	5.0	1	AG63679	07/26/16 08:00	07/26/16 14:20	SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AG63679	07/26/16 08:00	07/26/16 14:20	SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AG63679	07/26/16 08:00	07/26/16 14:20	SM2320B	
Total Alkalinity as CaCO3	250 mg/L	5.0	1	AG63679	07/26/16 08:00	07/26/16 14:20	SM2320B	
Total Kjeldahl Nitrogen	54 mg/L	1.0	1	AG63879	07/27/16 06:16	07/28/16 10:16	SM4500-Norg B	
Total Nitrogen	54 mg/L	1.0	1	AG63717	07/20/16 12:32	07/28/16 14:55	SM4500-N	
Hardness, Total	85 mg/L	5	1	AG63917	07/26/16 12:30	07/29/16 15:19	SM2340B	
Phosphorus, total	9.6 mg/L	2.0	5	AG63991	07/28/16 09:15	07/28/16 13:06	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:
08/02/16 16:22

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13104 / 071616A (16G1521-01)		Sample Type: Water			Sampled: 07/17/16 08:30			
Miscellaneous Physical/Conventional Chemistry Parameters								
Sodium Adsorption Ratio-Adj RNA	2.65 NA		1	AG63917	07/26/16 12:30	08/02/16 05:51	SAR	
Anions by EPA Method 300.0								
Chloride	53 mg/L	10	20	AG63645	07/19/16 19:23	07/19/16 19:23	EPA 300.0	
Nitrate as N	ND mg/L	0.20	1	AG63645	07/19/16 19:39	07/19/16 19:39	EPA 300.0	T-5
Nitrate as NO3	ND mg/L	1.0	1	AG63645	07/19/16 19:39	07/19/16 19:39	EPA 300.0	T-5
Nitrite as N	ND mg/L	0.20	1	AG63645	07/19/16 19:39	07/19/16 19:39	EPA 300.0	T-5
Nitrite as NO2	ND mg/L	1.0	1	AG63645	07/19/16 19:39	07/19/16 19:39	EPA 300.0	T-5
Sulfate as SO4	31 mg/L	0.50	1	AG63645	07/19/16 19:39	07/19/16 19:39	EPA 300.0	
G13220 / 071616B (16G1521-02)		Sample Type: Water			Sampled: 07/17/16 09:00			
Metals (Drinking Water) by EPA 200 Series Methods								
Potassium	17 mg/L	1.0	1	AG63917	07/26/16 12:30	07/29/16 15:23	EPA 200.7	
Metals by EPA 200 Series Methods								
Aluminum	0.68 mg/L	0.050	1	AG63917	07/26/16 12:30	07/29/16 15:23	EPA 200.7	
Boron	1.0 mg/L	0.050	1	AG63917	07/26/16 12:30	07/29/16 15:23	EPA 200.7	
Calcium	34 mg/L	1.0	1	AG63917	07/26/16 12:30	07/29/16 15:23	EPA 200.7	
Iron	2.0 mg/L	0.10	1	AG63917	07/26/16 12:30	07/29/16 15:23	EPA 200.7	
Magnesium	19 mg/L	1.0	1	AG63917	07/26/16 12:30	07/29/16 15:23	EPA 200.7	
Manganese	0.049 mg/L	0.020	1	AG63917	07/26/16 12:30	07/29/16 15:23	EPA 200.7	
Sodium	91 mg/L	1.0	1	AG63917	07/26/16 12:30	07/29/16 15:23	EPA 200.7	
Zinc	0.22 mg/L	0.020	1	AG63917	07/26/16 12:30	07/29/16 15:23	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:
08/02/16 16:22

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note	
G13220 / 071616B (16G1521-02)		Sample Type: Water			Sampled: 07/17/16 09:00				
Conventional Chemistry Parameters by APHA/EPA Methods									
Ammonia as NH3	71 mg/L	0.50	1	AG64041	07/29/16 08:13	07/29/16 17:00	SM4500NH3C		
Bicarbonate	350 mg/L	5.0	1	AG63679	07/26/16 08:00	07/26/16 14:20	SM2320B		
Biochemical Oxygen Demand	220 mg/L	5.0	1	AG63867	07/20/16 07:00	07/25/16 12:00	SM5210B	T-16	
pH	7.60 pH Units	1.68	1	AG63678	07/18/16 19:00	07/18/16 19:00	SM4500-H+ B	T-14	
Specific Conductance (EC)	1100 umhos/cm	20	1	AG63734	07/19/16 16:00	07/19/16 17:00	SM2510B		
Total Dissolved Solids	610 mg/L	10	1	AG63763	07/21/16 12:24	07/26/16 16:38	SM2540C		
Total Suspended Solids	290 mg/L	1.0	1	AG63705	07/20/16 09:55	07/25/16 09:37	SM2540D		
Volatile Suspended Solids	270 mg/L	1.0	1	AG63711	07/22/16 10:00	07/25/16 16:30	EPA 160.4		
Silica	22 mg/L	5.0	5	AG63694	07/20/16 08:30	07/20/16 10:30	SM4500-SiO2 C		
Bicarbonate Alkalinity as CaCO3	290 mg/L	5.0	1	AG63679	07/26/16 08:00	07/26/16 14:20	SM2320B		
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AG63679	07/26/16 08:00	07/26/16 14:20	SM2320B		
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AG63679	07/26/16 08:00	07/26/16 14:20	SM2320B		
Total Alkalinity as CaCO3	290 mg/L	5.0	1	AG63679	07/26/16 08:00	07/26/16 14:20	SM2320B		
Total Kjeldahl Nitrogen	73 mg/L	1.0	1	AG63879	07/27/16 06:16	07/28/16 10:16	SM4500-Norg B		
Total Nitrogen	73 mg/L	1.0	1	AG63717	07/20/16 12:32	07/28/16 14:55	SM4500-N		
Hardness, Total	164 mg/L	5	1	AG63917	07/26/16 12:30	07/29/16 15:23	SM2340B		
Phosphorus, total	7.5 mg/L	2.0	5	AG63991	07/28/16 09:15	07/28/16 13:06	SM4500-P E		
Miscellaneous Physical/Conventional Chemistry Parameters									
Sodium Adsorption Ratio-Adj RNA	3.53 NA		1	AG63917	07/26/16 12:30	08/02/16 05:51	SAR		
Anions by EPA Method 300.0									
Chloride	84 mg/L	12	25	AG63645	07/19/16 19:55	07/19/16 19:55	EPA 300.0		
Nitrate as N	ND mg/L	0.20	1	AG63645	07/19/16 20:11	07/19/16 20:11	EPA 300.0	T-5	
Nitrate as NO3	ND mg/L	1.0	1	AG63645	07/19/16 20:11	07/19/16 20:11	EPA 300.0	T-5	
Nitrite as N	ND mg/L	0.20	1	AG63645	07/19/16 20:11	07/19/16 20:11	EPA 300.0	T-5	
Nitrite as NO2	ND mg/L	1.0	1	AG63645	07/19/16 20:11	07/19/16 20:11	EPA 300.0	T-5	
Sulfate as SO4	110 mg/L	12	25	AG63645	07/19/16 19:55	07/19/16 19:55	EPA 300.0		
G13223 / 071616C (16G1521-03)		Sample Type: Water			Sampled: 07/17/16 09:30				
Metals (Drinking Water) by EPA 200 Series Methods									
Potassium	19 mg/L	1.0	1	AG63917	07/26/16 12:30	07/29/16 15:28	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:
08/02/16 16:22

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13223 / 071616C (16G1521-03)		Sample Type: Water			Sampled: 07/17/16 09:30			
Metals by EPA 200 Series Methods								
Aluminum	0.46 mg/L	0.050	1	AG63917	07/26/16 12:30	07/29/16 15:28	EPA 200.7	
Boron	0.12 mg/L	0.050	1	AG63917	07/26/16 12:30	07/29/16 15:28	EPA 200.7	
Calcium	20 mg/L	1.0	1	AG63917	07/26/16 12:30	07/29/16 15:28	EPA 200.7	
Iron	1.6 mg/L	0.10	1	AG63917	07/26/16 12:30	07/29/16 15:28	EPA 200.7	
Magnesium	7.7 mg/L	1.0	1	AG63917	07/26/16 12:30	07/29/16 15:28	EPA 200.7	
Manganese	0.065 mg/L	0.020	1	AG63917	07/26/16 12:30	07/29/16 15:28	EPA 200.7	
Sodium	51 mg/L	1.0	1	AG63917	07/26/16 12:30	07/29/16 15:28	EPA 200.7	
Zinc	0.16 mg/L	0.020	1	AG63917	07/26/16 12:30	07/29/16 15:28	EPA 200.7	
Conventional Chemistry Parameters by APHA/EPA Methods								
Ammonia as NH3	72 mg/L	0.50	1	AG64041	07/29/16 08:13	07/29/16 17:00	SM4500NH3C	
Bicarbonate	360 mg/L	5.0	1	AG63679	07/26/16 08:00	07/26/16 14:20	SM2320B	
Biochemical Oxygen Demand	190 mg/L	5.0	1	AG63867	07/20/16 07:00	07/25/16 12:00	SM5210B	T-16
pH	7.29 pH Units	1.68	1	AG63678	07/18/16 19:00	07/18/16 19:00	SM4500-H+ B	T-14
Specific Conductance (EC)	930 umhos/cm	20	1	AG63734	07/19/16 16:00	07/19/16 17:00	SM2510B	
Total Dissolved Solids	400 mg/L	10	1	AG63763	07/21/16 12:24	07/26/16 16:38	SM2540C	
Total Suspended Solids	250 mg/L	1.0	1	AG63705	07/20/16 09:55	07/25/16 09:37	SM2540D	
Volatile Suspended Solids	220 mg/L	1.0	1	AG63711	07/22/16 10:00	07/25/16 16:30	EPA 160.4	
Silica	14 mg/L	5.0	5	AG63694	07/20/16 08:30	07/20/16 10:30	SM4500-SiO2 C	
Bicarbonate Alkalinity as CaCO3	240 mg/L	5.0	1	AG63679	07/26/16 08:00	07/26/16 14:20	SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AG63679	07/26/16 08:00	07/26/16 14:20	SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AG63679	07/26/16 08:00	07/26/16 14:20	SM2320B	
Total Alkalinity as CaCO3	240 mg/L	5.0	1	AG63679	07/26/16 08:00	07/26/16 14:20	SM2320B	
Total Kjeldahl Nitrogen	78 mg/L	1.0	1	AG63879	07/27/16 06:16	07/28/16 10:16	SM4500-Norg B	
Total Nitrogen	78 mg/L	1.0	1	AG63717	07/20/16 12:32	07/28/16 14:55	SM4500-N	
Hardness, Total	81 mg/L	5	1	AG63917	07/26/16 12:30	07/29/16 15:28	SM2340B	
Phosphorus, total	8.6 mg/L	2.0	5	AG63991	07/28/16 09:15	07/28/16 13:06	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:
08/02/16 16:22

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13223 / 071616C (16G1521-03)		Sample Type: Water			Sampled: 07/17/16 09:30			
Miscellaneous Physical/Conventional Chemistry Parameters								
Sodium Adsorption Ratio-Adj RNA	2.83 NA		1	AG63917	07/26/16 12:30	08/02/16 05:51	SAR	
Anions by EPA Method 300.0								
Chloride	42 mg/L	10	20	AG63645	07/19/16 20:59	07/19/16 20:59	EPA 300.0	
Nitrate as N	ND mg/L	0.20	1	AG63645	07/19/16 21:15	07/19/16 21:15	EPA 300.0	T-5
Nitrate as NO3	ND mg/L	1.0	1	AG63645	07/19/16 21:15	07/19/16 21:15	EPA 300.0	T-5
Nitrite as N	ND mg/L	0.20	1	AG63645	07/19/16 21:15	07/19/16 21:15	EPA 300.0	T-5
Nitrite as NO2	ND mg/L	1.0	1	AG63645	07/19/16 21:15	07/19/16 21:15	EPA 300.0	T-5
Sulfate as SO4	35 mg/L	10	20	AG63645	07/19/16 20:59	07/19/16 20:59	EPA 300.0	



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Project: WQ Monitoring
Project Number: [none]

Reported:
08/02/16 16:22

Metals (Drinking Water) 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 AG63917 - Metals Digest										
Blank (AG63917-BLK1)				Prepared: 07/26/16 Analyzed: 07/29/16						
Potassium	ND	1.0	mg/L							
LCS (AG63917-BS1)				Prepared: 07/26/16 Analyzed: 07/29/16						
Potassium	7.08	1.0	mg/L	8.00		88.6	85-115			
Duplicate (AG63917-DUP1)				Source: 16G1530-08 Prepared: 07/26/16 Analyzed: 07/29/16						
Potassium	19.9	1.0	mg/L		19.0			4.51	20	
Matrix Spike (AG63917-MS1)				Source: 16G1530-08 Prepared: 07/26/16 Analyzed: 07/29/16						
Potassium	27.7	1.0	mg/L	8.00	19.0	108	70-130			
Matrix Spike (AG63917-MS2)				Source: 16G1930-01 Prepared: 07/26/16 Analyzed: 07/29/16						
Potassium	9.07	1.0	mg/L	8.00	2.61	80.8	70-130			
Matrix Spike Dup (AG63917-MSD1)				Source: 16G1530-08 Prepared: 07/26/16 Analyzed: 07/29/16						
Potassium	27.3	1.0	mg/L	8.00	19.0	103	70-130	1.41	20	

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

Reported:
08/02/16 16:22

Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
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Batch AG63917 - Metals Digest

Blank (AG63917-BLK1)

Prepared: 07/26/16 Analyzed: 07/29/16

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 (AG63917-BS1)

Prepared: 07/26/16 Analyzed: 07/29/16

Aluminum	1.81	0.050	mg/L	2.00		90.3	85-115			
Boron	0.342	0.050	mg/L	0.400		85.5	85-115			
Calcium	7.24	1.0	mg/L	8.00		90.5	85-115			
Iron	1.89	0.10	mg/L	2.00		94.4	85-115			
Magnesium	7.11	1.0	mg/L	8.00		88.9	85-115			
Manganese	0.185	0.020	mg/L	0.200		92.4	85-115			
Sodium	7.63	1.0	mg/L	8.00		95.4	85-115			
Zinc	0.181	0.020	mg/L	0.200		90.5	85-115			

Duplicate (AG63917-DUP1)

Source: 16G1530-08

Prepared: 07/26/16 Analyzed: 07/29/16

Aluminum	0.102	0.050	mg/L		0.0954			6.75	20	
Boron	0.445	0.050	mg/L		0.418			6.38	20	
Calcium	107	1.0	mg/L		104			2.68	20	
Iron	0.113	0.10	mg/L		ND			13.3	20	
Magnesium	45.6	1.0	mg/L		43.5			4.72	20	
Manganese	ND	0.020	mg/L		ND			9.57	20	
Sodium	171	1.0	mg/L		166			3.09	20	
Zinc	0.0236	0.020	mg/L		0.0219			7.21	20	



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

Reported:
08/02/16 16:22

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 AG63917 - Metals Digest										
Matrix Spike (AG63917-MS1)		Source: 16G1530-08			Prepared: 07/26/16		Analyzed: 07/29/16			
Aluminum	1.98	0.050	mg/L	2.00	0.0954	94.2	70-130			
Boron	0.803	0.050	mg/L	0.400	0.418	96.4	70-130			
Calcium	114	1.0	mg/L	8.00	104	131	70-130			QM-4X
Iron	2.02	0.10	mg/L	2.00	ND	95.9	70-130			
Magnesium	53.5	1.0	mg/L	8.00	43.5	125	70-130			
Manganese	0.197	0.020	mg/L	0.200	ND	95.0	70-130			
Sodium	177	1.0	mg/L	8.00	166	147	70-130			QM-4X
Zinc	0.212	0.020	mg/L	0.200	0.0219	95.3	70-130			
Matrix Spike (AG63917-MS2)		Source: 16G1930-01			Prepared: 07/26/16		Analyzed: 07/29/16			
Aluminum	1.71	0.050	mg/L	2.00	ND	85.3	70-130			
Boron	0.384	0.050	mg/L	0.400	ND	83.8	70-130			
Calcium	26.7	1.0	mg/L	8.00	20.9	72.6	70-130			
Iron	4.93	0.10	mg/L	2.00	3.45	74.2	70-130			
Magnesium	19.3	1.0	mg/L	8.00	12.8	81.2	70-130			
Manganese	0.595	0.020	mg/L	0.200	0.458	68.6	70-130			QM-01
Sodium	24.9	1.0	mg/L	8.00	19.1	72.9	70-130			
Zinc	0.187	0.020	mg/L	0.200	ND	88.4	70-130			
Matrix Spike Dup (AG63917-MSD1)		Source: 16G1530-08			Prepared: 07/26/16		Analyzed: 07/29/16			
Aluminum	1.94	0.050	mg/L	2.00	0.0954	92.3	70-130	1.92	20	
Boron	0.790	0.050	mg/L	0.400	0.418	93.1	70-130	1.66	20	
Calcium	111	1.0	mg/L	8.00	104	96.0	70-130	2.49	20	
Iron	1.98	0.10	mg/L	2.00	ND	94.2	70-130	1.69	20	
Magnesium	52.3	1.0	mg/L	8.00	43.5	110	70-130	2.27	20	
Manganese	0.193	0.020	mg/L	0.200	ND	93.1	70-130	1.87	20	
Sodium	173	1.0	mg/L	8.00	166	97.7	70-130	2.26	20	
Zinc	0.209	0.020	mg/L	0.200	0.0219	93.6	70-130	1.61	20	

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

Reported:
08/02/16 16:22

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 AG63678 - General Preparation										
Duplicate (AG63678-DUP1)		Source: 16G1518-01			Prepared & Analyzed: 07/18/16					
pH	7.40	1.68	pH Units		7.44			0.539	20	
Batch AG63679 - General Preparation										
Duplicate (AG63679-DUP1)		Source: 16G1322-01			Prepared & Analyzed: 07/26/16					
Bicarbonate	89.1	5.0	mg/L		90.3			1.36	20	
Carbonate Alkalinity as CaCO ₃	ND	5.0	mg/L		ND				20	
Total Alkalinity as CaCO ₃	73.0	5.0	mg/L		74.0			1.36	20	
Hydroxide Alkalinity as CaCO ₃	ND	5.0	mg/L		ND				20	
Bicarbonate Alkalinity as CaCO ₃	73.0	5.0	mg/L		74.0			1.36	20	
Batch AG63694 - General Preparation										
Blank (AG63694-BLK1)					Prepared & Analyzed: 07/20/16					
Silica	ND	1.0	mg/L							
LCS (AG63694-BS1)					Prepared & Analyzed: 07/20/16					
Silica	9.41	1.0	mg/L	10.0		94.1	85-115			
LCS Dup (AG63694-BSD1)					Prepared & Analyzed: 07/20/16					
Silica	8.83	1.0	mg/L	10.0		88.3	85-115	6.33	20	
Duplicate (AG63694-DUP1)		Source: 16G1536-02			Prepared & Analyzed: 07/20/16					
Silica	9.41	1.0	mg/L		9.91			5.18	20	
Matrix Spike (AG63694-MS1)		Source: 16G1536-02			Prepared & Analyzed: 07/20/16					
Silica	12.3	1.0	mg/L	5.00	9.91	48.5	80-120			QM-05

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Project: WQ Monitoring
Project Number: [none]

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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 AG63694 - General Preparation										
Matrix Spike Dup (AG63694-MSD1)		Source: 16G1536-02		Prepared & Analyzed: 07/20/16						
Silica	12.4	1.0	mg/L	5.00	9.91	50.8	80-120	0.932	20	QM-05
Batch AG63705 - General Preparation										
Blank (AG63705-BLK1)				Prepared: 07/20/16 Analyzed: 07/25/16						
Total Suspended Solids	ND	1.0	mg/L							
Duplicate (AG63705-DUP1)		Source: 16G1518-01		Prepared: 07/20/16 Analyzed: 07/25/16						
Total Suspended Solids	255	1.0	mg/L		259			1.44	30	
Duplicate (AG63705-DUP2)		Source: 16G1521-03		Prepared: 07/20/16 Analyzed: 07/25/16						
Total Suspended Solids	217	1.0	mg/L		250			14.2	30	
Batch AG63711 - General Preparation										
Blank (AG63711-BLK1)				Prepared: 07/22/16 Analyzed: 07/25/16						
Volatile Suspended Solids	ND	1.0	mg/L							
Duplicate (AG63711-DUP1)		Source: 16G1518-01		Prepared: 07/22/16 Analyzed: 07/25/16						
Volatile Suspended Solids	230	1.0	mg/L		236			2.70	30	
Duplicate (AG63711-DUP2)		Source: 16G1521-03		Prepared: 07/22/16 Analyzed: 07/25/16						
Volatile Suspended Solids	193	1.0	mg/L		222			14.0	30	
Batch AG63734 - General Preparation										
Duplicate (AG63734-DUP1)		Source: 16G1599-01		Prepared & Analyzed: 07/19/16						
Specific Conductance (EC)	645	20	umhos/cm		646			0.155	5	

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Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AG63763 - General Preparation										
Blank (AG63763-BLK1)				Prepared: 07/21/16 Analyzed: 07/26/16						
Total Dissolved Solids	ND	10	mg/L							
Duplicate (AG63763-DUP1)				Source: 16G1545-01 Prepared: 07/21/16 Analyzed: 07/26/16						
Total Dissolved Solids	332	10	mg/L		375			12.1	15	
Batch AG63867 - General Preparation										
Blank (AG63867-BLK1)				Prepared: 07/20/16 Analyzed: 07/25/16						
Biochemical Oxygen Demand	ND	5.0	mg/L							
Blank (AG63867-BLK2)				Prepared: 07/20/16 Analyzed: 07/25/16						
Biochemical Oxygen Demand	ND	5.0	mg/L							
LCS (AG63867-BS1)				Prepared: 07/20/16 Analyzed: 07/25/16						
Biochemical Oxygen Demand	212	5.0	mg/L	200		106	84-115			
Duplicate (AG63867-DUP1)				Source: 16G1524-03 Prepared: 07/20/16 Analyzed: 07/25/16						
Biochemical Oxygen Demand	210	5.0	mg/L		221			5.10	30	
Batch AG63879 - General Prep										
LCS (AG63879-BS1)				Prepared & Analyzed: 07/26/16						
Total Kjeldahl Nitrogen	2.95	1.0	mg/L	2.98		99.0	80-120			
LCS Dup (AG63879-BSD1)				Prepared & Analyzed: 07/26/16						
Total Kjeldahl Nitrogen	2.95	1.0	mg/L	2.98		99.0	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 AG63879 - General Prep										
Matrix Spike (AG63879-MS1)		Source: 16G1521-01		Prepared: 07/27/16 Analyzed: 07/28/16						
Total Kjeldahl Nitrogen	93.2	1.0	mg/L	22.6	53.9	173	75-125			QM-4X
Matrix Spike Dup (AG63879-MSD1)		Source: 16G1521-01		Prepared: 07/27/16 Analyzed: 07/28/16						
Total Kjeldahl Nitrogen	93.2	1.0	mg/L	22.6	53.9	173	75-125	0.00	20	QM-4X
Batch AG63917 - Metals Digest										
Blank (AG63917-BLK1)		Prepared: 07/26/16 Analyzed: 07/29/16								
Hardness, Total	ND	5	mg/L							
Duplicate (AG63917-DUP1)		Source: 16G1530-08		Prepared: 07/26/16 Analyzed: 07/29/16						
Hardness, Total	454	5	mg/L		438			3.52	20	
Batch AG63991 - General Prep										
Blank (AG63991-BLK1)		Prepared & Analyzed: 07/28/16								
Phosphorus, total	ND	0.040	mg/L							
LCS (AG63991-BS1)		Prepared & Analyzed: 07/28/16								
Phosphorus, total	0.192	0.040	mg/L	0.200		95.9	85-115			
Duplicate (AG63991-DUP1)		Source: 16G1518-01		Prepared & Analyzed: 07/28/16						
Phosphorus, total	7.50	2.0	mg/L		7.57			0.889	20	
Matrix Spike (AG63991-MS1)		Source: 16G1518-01		Prepared & Analyzed: 07/28/16						
Phosphorus, total	8.78	2.0	mg/L	2.00	7.57	60.6	70-130			QM-4X

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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 AG63991 - General Prep										
Matrix Spike Dup (AG63991-MSD1)		Source: 16G1518-01			Prepared & Analyzed: 07/28/16					
Phosphorus, total	8.78	2.0	mg/L	2.00	7.57	60.6	70-130	0.00	20	QM-4X
Batch AG64041 - General Preparation										
Blank (AG64041-BLK1)					Prepared & Analyzed: 07/29/16					
Ammonia as NH3	ND	0.50	mg/L							
LCS (AG64041-BS1)					Prepared & Analyzed: 07/29/16					
Ammonia as NH3	5.96	0.50	mg/L	6.10		97.7	90-110			
LCS Dup (AG64041-BSD1)					Prepared & Analyzed: 07/29/16					
Ammonia as NH3	5.85	0.50	mg/L	6.10		96.0	90-110	1.81	10	
Matrix Spike (AG64041-MS1)		Source: 16G1636-02			Prepared & Analyzed: 07/29/16					
Ammonia as NH3	12.3	0.50	mg/L	12.2	ND	101	85-115			
Matrix Spike Dup (AG64041-MSD1)		Source: 16G1636-02			Prepared & Analyzed: 07/29/16					
Ammonia as NH3	11.9	0.50	mg/L	12.2	ND	97.7	85-115	3.51	20	

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

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

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

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

Reported:
08/02/16 16:22

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 AG63645 - General Preparation										
Blank (AG63645-BLK1)				Prepared & Analyzed: 07/19/16						
Nitrite as N	ND	0.20	mg/L							
Sulfate as SO4	ND	0.50	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 NO2	ND	1.0	mg/L							
LCS (AG63645-BS1)				Prepared & Analyzed: 07/19/16						
Sulfate as SO4	22.9	0.50	mg/L	22.2		103	90-110			
Chloride	11.5	0.50	mg/L	11.1		103	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			
Nitrate as NO3	26	1.0	mg/L	24.7		105	90-110			
Nitrate as N	5.86	0.20	mg/L	5.56		106	90-110			
Duplicate (AG63645-DUP1)				Source: 16G1539-01			Prepared & Analyzed: 07/19/16			
Sulfate as SO4	ND	0.50	mg/L		ND			5.82	20	
Nitrate as NO3	2.3	1.0	mg/L		2.3			0.435	20	
Chloride	1.77	0.50	mg/L		1.81			2.46	20	
Nitrite as NO2	ND	1.0	mg/L		ND				20	
Nitrite as N	ND	0.20	mg/L		ND				20	
Nitrate as N	0.518	0.20	mg/L		0.520			0.435	20	
Matrix Spike (AG63645-MS1)				Source: 16G1539-01			Prepared & Analyzed: 07/19/16			
Nitrite as N	5.62	0.20	mg/L	5.56	ND	101	80-120			
Nitrate as N	6.47	0.20	mg/L	5.56	0.520	107	80-120			
Nitrate as NO3	29	1.0	mg/L	24.7	2.3	107	80-120			
Sulfate as SO4	23.6	0.50	mg/L	22.2	ND	105	80-120			
Nitrite as NO2	18.5	1.0	mg/L	18.2	ND	101	80-120			
Chloride	13.4	0.50	mg/L	11.1	1.81	104	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: [none]

Reported:
08/02/16 16:22

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 AG63645 - General Preparation

Matrix Spike Dup (AG63645-MSD1)

Source: 16G1539-01

Prepared & Analyzed: 07/19/16

Nitrate as N	6.44	0.20	mg/L	5.56	0.520	107	80-120	0.493	20	
Nitrite as N	5.57	0.20	mg/L	5.56	ND	100	80-120	0.834	20	
Chloride	13.3	0.50	mg/L	11.1	1.81	104	80-120	0.433	20	
Sulfate as SO4	23.5	0.50	mg/L	22.2	ND	104	80-120	0.750	20	
Nitrate as NO3	29	1.0	mg/L	24.7	2.3	106	80-120	0.493	20	
Nitrite as NO2	18.3	1.0	mg/L	18.2	ND	101	80-120	0.834	20	



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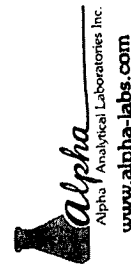
West Bay Sanitary District
500 Laurel Street
Menlo Park, CA 94025

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

Reported:
08/02/16 16:22

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-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-16 Sample prepared outside of recommended hold time. Client notified.
- T-5 Sample prepared outside of recommended holding time per client.
- ND Analyte NOT DETECTED at or above the reporting limit
- dry Sample results reported on a dry weight basis
- REC Recovery
- RPD Relative Percent Difference



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Work Order

Chain of Custody Record

16-G-1521

Lab No. 1091520 Page 2 of 2

WATERS, SEDIMENTS, SOLIDS

Company/Name: West Bay Sanitary District		Project ID: 		WQ Monitoring		Signature below authorizes work under terms stated on reverse side.		Sample Notes		TAT 24 hr <input type="radio"/> 48 hr <input type="radio"/> Lab Approval Required For Rush <input type="radio"/> 1 wk <input type="radio"/> 2 wk (standard) <input type="radio"/>	
Mailing Address: 500 Laurel Street Menlo Park, CA 94025		Project No.:		PO#		Analysis Request		Analysis Request			
Project Contact & Email (Hardcopy or PDF to): John Simonetti jsimonetti@westbaysanitary.org		Site Contact: John Simonetti		DU BOD		DU pH		2007-B, Ca, Mg, Na, Al, Fe, Mn, Zn			
Field Sampler - Print Name & Signature Jes Bayk		Sample Collection		Container		Preservative		Matrix			
Sample Identification		Date		Time		40ml Vial		Poly		Glass	
G13104		7/17		0830		5		1		3	
071616A		7/17		0900		5		1		3	
G13220		7/17		0930		5		1		3	
071616B											
G13223											
071616C											
Relinquished by: 		Date		Time		CDPH Write On EDT Report?		Yes <input type="radio"/> No <input type="radio"/>			
		7/17		0830							
Relinquished by: 		Date		Time		State System Number:					
Relinquished by: 		Date		Time							
Relinquished by: 		Date		Time							
Relinquished by: 		Date		Time							
Travel and Site Time:		Mileage:		Misc. Supplies:							



Sheri Speaks <speaks78@gmail.com>

Fwd: Scanned Doc - 2FL Scanner 07/19/2016 09:07

1 message

Robbie Phillips <robbie@alpha-labs.com>
To: Sheri Speaks <speaks78@gmail.com>

Tue, Jul 19, 2016 at 10:16 AM

Robbie C. Phillips
650-464-3237

Begin forwarded message:

From: Jed Beyer <JBeyer@westbaysanitary.org>
Date: July 19, 2016 at 10:11:49 PDT
To: "robbie@alpha-labs.com" <robbie@alpha-labs.com>
Subject: FW: Scanned Doc - 2FL Scanner 07/19/2016 09:07

Hi Robbie,

We had to amend some dates. Please see the attached forms.

Thank you,

Jed

-----Original Message-----

From: 2FL-Scanner [mailto:it@westbaysanitary.org]
Sent: Tuesday, July 19, 2016 9:07 AM
To: Jed Beyer
Subject: Scanned Doc - 2FL Scanner 07/19/2016 09:07

Scanned from MFP11330137
Date:07/19/2016 09:07
Pages:2
Resolution:200x200 DPI



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ELAP Certificates 1551, 2728, and 2922

02 August 2016

West Bay Sanitary District

Attn: John Simonetti

500 Laurel Street

Menlo Park, CA 94025

RE: WQ Monitoring

Work Order: 16G1524

Enclosed are the results of analyses for samples received by the laboratory on 07/18/16 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:
08/02/16 16:08

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
G13104 / 071716A	16G1524-01	Water	07/18/16 09:10	07/18/16 21:00
G13220 / 071716B	16G1524-02	Water	07/18/16 09:40	07/18/16 21:00
G13223 / 071716C	16G1524-03	Water	07/18/16 08:30	07/18/16 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:
08/02/16 16:08

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13104 / 071716A (16G1524-01)		Sample Type: Water			Sampled: 07/18/16 09:10			
Metals (Drinking Water) by EPA 200 Series Methods								
Potassium	21 mg/L	1.0	1	AG63917	07/26/16 12:30	07/29/16 15:42	EPA 200.7	
Metals by EPA 200 Series Methods								
Aluminum	0.94 mg/L	0.050	1	AG63917	07/26/16 12:30	07/29/16 15:42	EPA 200.7	
Boron	0.13 mg/L	0.050	1	AG63917	07/26/16 12:30	07/29/16 15:42	EPA 200.7	
Calcium	32 mg/L	1.0	1	AG63917	07/26/16 12:30	07/29/16 15:42	EPA 200.7	
Iron	2.9 mg/L	0.10	1	AG63917	07/26/16 12:30	07/29/16 15:42	EPA 200.7	
Magnesium	8.3 mg/L	1.0	1	AG63917	07/26/16 12:30	07/29/16 15:42	EPA 200.7	
Manganese	0.14 mg/L	0.020	1	AG63917	07/26/16 12:30	07/29/16 15:42	EPA 200.7	
Sodium	49 mg/L	1.0	1	AG63917	07/26/16 12:30	07/29/16 15:42	EPA 200.7	
Zinc	0.31 mg/L	0.020	1	AG63917	07/26/16 12:30	07/29/16 15:42	EPA 200.7	
Conventional Chemistry Parameters by APHA/EPA Methods								
Ammonia as NH3	88 mg/L	0.50	1	AG64041	07/29/16 08:13	07/29/16 17:00	SM4500NH3C	
Bicarbonate	440 mg/L	5.0	1	AG63801	07/26/16 08:00	07/26/16 17:00	SM2320B	
Biochemical Oxygen Demand	290 mg/L	5.0	1	AG63867	07/20/16 07:00	07/25/16 12:00	SM5210B	
pH	7.50 pH Units	1.68	1	AG63678	07/18/16 19:00	07/18/16 19:00	SM4500-H+ B	T-14
Specific Conductance (EC)	1100 umhos/cm	20	1	AG63734	07/19/16 16:00	07/19/16 17:00	SM2510B	
Total Dissolved Solids	520 mg/L	10	1	AG63763	07/21/16 12:24	07/26/16 16:38	SM2540C	
Total Suspended Solids	340 mg/L	1.0	1	AG63705	07/20/16 09:55	07/25/16 09:37	SM2540D	
Volatile Suspended Solids	300 mg/L	1.0	1	AG63711	07/22/16 10:00	07/25/16 16:30	EPA 160.4	
Silica	14 mg/L	5.0	5	AG63694	07/20/16 08:30	07/20/16 10:30	SM4500-SiO2 C	
Bicarbonate Alkalinity as CaCO3	360 mg/L	5.0	1	AG63801	07/26/16 08:00	07/26/16 17:00	SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AG63801	07/26/16 08:00	07/26/16 17:00	SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AG63801	07/26/16 08:00	07/26/16 17:00	SM2320B	
Total Alkalinity as CaCO3	360 mg/L	5.0	1	AG63801	07/26/16 08:00	07/26/16 17:00	SM2320B	
Total Kjeldahl Nitrogen	100 mg/L	1.0	1	AG63879	07/27/16 06:16	07/28/16 10:16	SM4500-Norg B	
Total Nitrogen	100 mg/L	1.0	1	AG63717	07/20/16 12:32	07/28/16 14:55	SM4500-N	
Hardness, Total	115 mg/L	5	1	AG63917	07/26/16 12:30	07/29/16 15:42	SM2340B	
Phosphorus, total	12 mg/L	2.0	5	AG63991	07/28/16 09:15	07/28/16 13:06	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:
08/02/16 16:08

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13104 / 071716A (16G1524-01)		Sample Type: Water			Sampled: 07/18/16 09:10			
Miscellaneous Physical/Conventional Chemistry Parameters								
Sodium Adsorption Ratio-Adj RNA	2.55 NA		1	AG63917	07/26/16 12:30	08/02/16 06:00	SAR	
Anions by EPA Method 300.0								
Chloride	52 mg/L	12	25	AG63645	07/20/16 01:16	07/20/16 01:16	EPA 300.0	
Nitrate as N	ND mg/L	0.20	1	AG63645	07/20/16 01:33	07/20/16 01:33	EPA 300.0	
Nitrate as NO3	ND mg/L	1.0	1	AG63645	07/20/16 01:33	07/20/16 01:33	EPA 300.0	
Nitrite as N	ND mg/L	0.20	1	AG63645	07/20/16 01:33	07/20/16 01:33	EPA 300.0	
Nitrite as NO2	ND mg/L	1.0	1	AG63645	07/20/16 01:33	07/20/16 01:33	EPA 300.0	
Sulfate as SO4	45 mg/L	12	25	AG63645	07/20/16 01:16	07/20/16 01:16	EPA 300.0	
G13220 / 071716B (16G1524-02)		Sample Type: Water			Sampled: 07/18/16 09:40			
Metals (Drinking Water) by EPA 200 Series Methods								
Potassium	18 mg/L	1.0	1	AG63917	07/26/16 12:30	07/29/16 15:47	EPA 200.7	
Metals by EPA 200 Series Methods								
Aluminum	1.9 mg/L	0.050	1	AG63917	07/26/16 12:30	07/29/16 15:47	EPA 200.7	
Boron	0.15 mg/L	0.050	1	AG63917	07/26/16 12:30	07/29/16 15:47	EPA 200.7	
Calcium	33 mg/L	1.0	1	AG63917	07/26/16 12:30	07/29/16 15:47	EPA 200.7	
Iron	5.9 mg/L	0.10	1	AG63917	07/26/16 12:30	07/29/16 15:47	EPA 200.7	
Magnesium	13 mg/L	1.0	1	AG63917	07/26/16 12:30	07/29/16 15:47	EPA 200.7	
Manganese	0.092 mg/L	0.020	1	AG63917	07/26/16 12:30	07/29/16 15:47	EPA 200.7	
Sodium	57 mg/L	1.0	1	AG63917	07/26/16 12:30	07/29/16 15:47	EPA 200.7	
Zinc	0.48 mg/L	0.020	1	AG63917	07/26/16 12:30	07/29/16 15:47	EPA 200.7	

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

Reported:
08/02/16 16:08

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note	
G13220 / 071716B (16G1524-02)		Sample Type: Water			Sampled: 07/18/16 09:40				
Conventional Chemistry Parameters by APHA/EPA Methods									
Ammonia as NH3	52 mg/L	0.50	1	AG64041	07/29/16 08:13	07/29/16 17:00	SM4500NH3C		
Bicarbonate	310 mg/L	5.0	1	AG63801	07/26/16 08:00	07/26/16 17:00	SM2320B		
Biochemical Oxygen Demand	330 mg/L	5.0	1	AG63867	07/20/16 07:00	07/25/16 12:00	SM5210B		
pH	7.56 pH Units	1.68	1	AG63678	07/18/16 19:00	07/18/16 19:00	SM4500-H+ B	T-14	
Specific Conductance (EC)	830 umhos/cm	20	1	AG63734	07/19/16 16:00	07/19/16 17:00	SM2510B		
Total Dissolved Solids	390 mg/L	10	1	AG63763	07/21/16 12:24	07/26/16 16:38	SM2540C		
Total Suspended Solids	1200 mg/L	1.0	1	AG63705	07/20/16 09:55	07/25/16 09:37	SM2540D		
Volatile Suspended Solids	1100 mg/L	1.0	1	AG63711	07/22/16 10:00	07/25/16 16:30	EPA 160.4		
Silica	15 mg/L	5.0	5	AG63694	07/20/16 08:30	07/20/16 10:30	SM4500-SiO2 C		
Bicarbonate Alkalinity as CaCO3	260 mg/L	5.0	1	AG63801	07/26/16 08:00	07/26/16 17:00	SM2320B		
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AG63801	07/26/16 08:00	07/26/16 17:00	SM2320B		
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AG63801	07/26/16 08:00	07/26/16 17:00	SM2320B		
Total Alkalinity as CaCO3	260 mg/L	5.0	1	AG63801	07/26/16 08:00	07/26/16 17:00	SM2320B		
Total Kjeldahl Nitrogen	50 mg/L	1.0	1	AG63879	07/27/16 06:16	07/28/16 10:16	SM4500-Norg B		
Total Nitrogen	50 mg/L	1.0	1	AG63717	07/20/16 12:32	07/28/16 14:55	SM4500-N		
Hardness, Total	136 mg/L	5	1	AG63917	07/26/16 12:30	07/29/16 15:47	SM2340B		
Phosphorus, total	9.3 mg/L	2.0	5	AG63991	07/28/16 09:15	07/28/16 13:06	SM4500-P E		
Miscellaneous Physical/Conventional Chemistry Parameters									
Sodium Adsorption Ratio-Adj RNA	2.47 NA		1	AG63917	07/26/16 12:30	08/02/16 06:00	SAR		
Anions by EPA Method 300.0									
Chloride	61 mg/L	10	20	AG63645	07/20/16 01:49	07/20/16 01:49	EPA 300.0		
Nitrate as N	ND mg/L	0.20	1	AG63645	07/20/16 02:05	07/20/16 02:05	EPA 300.0		
Nitrate as NO3	ND mg/L	1.0	1	AG63645	07/20/16 02:05	07/20/16 02:05	EPA 300.0		
Nitrite as N	ND mg/L	0.20	1	AG63645	07/20/16 02:05	07/20/16 02:05	EPA 300.0		
Nitrite as NO2	ND mg/L	1.0	1	AG63645	07/20/16 02:05	07/20/16 02:05	EPA 300.0		
Sulfate as SO4	50 mg/L	10	20	AG63645	07/20/16 01:49	07/20/16 01:49	EPA 300.0		
G13223 / 071716C (16G1524-03)		Sample Type: Water			Sampled: 07/18/16 08:30				
Metals (Drinking Water) by EPA 200 Series Methods									
Potassium	17 mg/L	1.0	1	AG63917	07/26/16 12:30	07/29/16 15:51	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:
08/02/16 16:08

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13223 / 071716C (16G1524-03)		Sample Type: Water			Sampled: 07/18/16 08:30			
Metals by EPA 200 Series Methods								
Aluminum	0.57 mg/L	0.050	1	AG63917	07/26/16 12:30	07/29/16 15:51	EPA 200.7	
Boron	0.19 mg/L	0.050	1	AG63917	07/26/16 12:30	07/29/16 15:51	EPA 200.7	
Calcium	17 mg/L	1.0	1	AG63917	07/26/16 12:30	07/29/16 15:51	EPA 200.7	
Iron	1.4 mg/L	0.10	1	AG63917	07/26/16 12:30	07/29/16 15:51	EPA 200.7	
Magnesium	6.3 mg/L	1.0	1	AG63917	07/26/16 12:30	07/29/16 15:51	EPA 200.7	
Manganese	0.053 mg/L	0.020	1	AG63917	07/26/16 12:30	07/29/16 15:51	EPA 200.7	
Sodium	61 mg/L	1.0	1	AG63917	07/26/16 12:30	07/29/16 15:51	EPA 200.7	
Zinc	0.20 mg/L	0.020	1	AG63917	07/26/16 12:30	07/29/16 15:51	EPA 200.7	
Conventional Chemistry Parameters by APHA/EPA Methods								
Ammonia as NH3	58 mg/L	0.50	1	AG64041	07/29/16 08:13	07/29/16 17:00	SM4500NH3C	
Bicarbonate	290 mg/L	5.0	1	AG63801	07/26/16 08:00	07/26/16 17:00	SM2320B	
Biochemical Oxygen Demand	220 mg/L	5.0	1	AG63867	07/20/16 07:00	07/25/16 12:00	SM5210B	
pH	7.40 pH Units	1.68	1	AG63678	07/18/16 19:00	07/18/16 19:00	SM4500-H+ B	T-14
Specific Conductance (EC)	820 umhos/cm	20	1	AG63734	07/19/16 16:00	07/19/16 17:00	SM2510B	
Total Dissolved Solids	400 mg/L	10	1	AG63763	07/21/16 12:24	07/26/16 16:38	SM2540C	
Total Suspended Solids	350 mg/L	1.0	1	AG63705	07/20/16 09:55	07/25/16 09:37	SM2540D	
Volatile Suspended Solids	340 mg/L	1.0	1	AG63711	07/22/16 10:00	07/25/16 16:30	EPA 160.4	
Silica	14 mg/L	5.0	5	AG63694	07/20/16 08:30	07/20/16 10:30	SM4500-SiO2 C	
Bicarbonate Alkalinity as CaCO3	240 mg/L	5.0	1	AG63801	07/26/16 08:00	07/26/16 17:00	SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AG63801	07/26/16 08:00	07/26/16 17:00	SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AG63801	07/26/16 08:00	07/26/16 17:00	SM2320B	
Total Alkalinity as CaCO3	240 mg/L	5.0	1	AG63801	07/26/16 08:00	07/26/16 17:00	SM2320B	
Total Kjeldahl Nitrogen	43 mg/L	1.0	1	AG63879	07/27/16 06:16	07/28/16 10:16	SM4500-Norg B	
Total Nitrogen	43 mg/L	1.0	1	AG63717	07/20/16 12:32	07/28/16 14:55	SM4500-N	
Hardness, Total	68 mg/L	5	1	AG63917	07/26/16 12:30	07/29/16 15:51	SM2340B	
Phosphorus, total	7.6 mg/L	2.0	5	AG63991	07/28/16 09:15	07/28/16 13:06	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:
08/02/16 16:08

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13223 / 071716C (16G1524-03)		Sample Type: Water			Sampled: 07/18/16 08:30			
Miscellaneous Physical/Conventional Chemistry Parameters								
Sodium Adsorption Ratio-Adj RNA	3.53 NA		1	AG63917	07/26/16 12:30	08/02/16 06:00	SAR	
Anions by EPA Method 300.0								
Chloride	66 mg/L	10	20	AG63645	07/20/16 02:21	07/20/16 02:21	EPA 300.0	
Nitrate as N	ND mg/L	0.20	1	AG63645	07/20/16 02:37	07/20/16 02:37	EPA 300.0	
Nitrate as NO3	ND mg/L	1.0	1	AG63645	07/20/16 02:37	07/20/16 02:37	EPA 300.0	
Nitrite as N	ND mg/L	0.20	1	AG63645	07/20/16 02:37	07/20/16 02:37	EPA 300.0	
Nitrite as NO2	ND mg/L	1.0	1	AG63645	07/20/16 02:37	07/20/16 02:37	EPA 300.0	
Sulfate as SO4	32 mg/L	0.50	1	AG63645	07/20/16 02:37	07/20/16 02:37	EPA 300.0	



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Project Number: [none]

Reported:
08/02/16 16:08

Metals (Drinking Water) 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 AG63917 - Metals Digest										
Blank (AG63917-BLK1)				Prepared: 07/26/16 Analyzed: 07/29/16						
Potassium	ND	1.0	mg/L							
LCS (AG63917-BS1)				Prepared: 07/26/16 Analyzed: 07/29/16						
Potassium	7.08	1.0	mg/L	8.00		88.6	85-115			
Duplicate (AG63917-DUP1)				Source: 16G1530-08 Prepared: 07/26/16 Analyzed: 07/29/16						
Potassium	19.9	1.0	mg/L		19.0			4.51	20	
Matrix Spike (AG63917-MS1)				Source: 16G1530-08 Prepared: 07/26/16 Analyzed: 07/29/16						
Potassium	27.7	1.0	mg/L	8.00	19.0	108	70-130			
Matrix Spike (AG63917-MS2)				Source: 16G1930-01 Prepared: 07/26/16 Analyzed: 07/29/16						
Potassium	9.07	1.0	mg/L	8.00	2.61	80.8	70-130			
Matrix Spike Dup (AG63917-MSD1)				Source: 16G1530-08 Prepared: 07/26/16 Analyzed: 07/29/16						
Potassium	27.3	1.0	mg/L	8.00	19.0	103	70-130	1.41	20	



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

Reported:
08/02/16 16:08

Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
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Batch AG63917 - Metals Digest

Blank (AG63917-BLK1)

Prepared: 07/26/16 Analyzed: 07/29/16

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 (AG63917-BS1)

Prepared: 07/26/16 Analyzed: 07/29/16

Aluminum	1.81	0.050	mg/L	2.00		90.3	85-115			
Boron	0.342	0.050	mg/L	0.400		85.5	85-115			
Calcium	7.24	1.0	mg/L	8.00		90.5	85-115			
Iron	1.89	0.10	mg/L	2.00		94.4	85-115			
Magnesium	7.11	1.0	mg/L	8.00		88.9	85-115			
Manganese	0.185	0.020	mg/L	0.200		92.4	85-115			
Sodium	7.63	1.0	mg/L	8.00		95.4	85-115			
Zinc	0.181	0.020	mg/L	0.200		90.5	85-115			

Duplicate (AG63917-DUP1)

Source: 16G1530-08

Prepared: 07/26/16 Analyzed: 07/29/16

Aluminum	0.102	0.050	mg/L		0.0954			6.75	20	
Boron	0.445	0.050	mg/L		0.418			6.38	20	
Calcium	107	1.0	mg/L		104			2.68	20	
Iron	0.113	0.10	mg/L		ND			13.3	20	
Magnesium	45.6	1.0	mg/L		43.5			4.72	20	
Manganese	ND	0.020	mg/L		ND			9.57	20	
Sodium	171	1.0	mg/L		166			3.09	20	
Zinc	0.0236	0.020	mg/L		0.0219			7.21	20	



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Project: WQ Monitoring
Project Number: [none]

Reported:
08/02/16 16:08

Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
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Batch AG63917 - Metals Digest

Matrix Spike (AG63917-MS1)

Source: 16G1530-08

Prepared: 07/26/16 Analyzed: 07/29/16

Aluminum	1.98	0.050	mg/L	2.00	0.0954	94.2	70-130			
Boron	0.803	0.050	mg/L	0.400	0.418	96.4	70-130			
Calcium	114	1.0	mg/L	8.00	104	131	70-130			QM-4X
Iron	2.02	0.10	mg/L	2.00	ND	95.9	70-130			
Magnesium	53.5	1.0	mg/L	8.00	43.5	125	70-130			
Manganese	0.197	0.020	mg/L	0.200	ND	95.0	70-130			
Sodium	177	1.0	mg/L	8.00	166	147	70-130			QM-4X
Zinc	0.212	0.020	mg/L	0.200	0.0219	95.3	70-130			

Matrix Spike (AG63917-MS2)

Source: 16G1930-01

Prepared: 07/26/16 Analyzed: 07/29/16

Aluminum	1.71	0.050	mg/L	2.00	ND	85.3	70-130			
Boron	0.384	0.050	mg/L	0.400	ND	83.8	70-130			
Calcium	26.7	1.0	mg/L	8.00	20.9	72.6	70-130			
Iron	4.93	0.10	mg/L	2.00	3.45	74.2	70-130			
Magnesium	19.3	1.0	mg/L	8.00	12.8	81.2	70-130			
Manganese	0.595	0.020	mg/L	0.200	0.458	68.6	70-130			QM-01
Sodium	24.9	1.0	mg/L	8.00	19.1	72.9	70-130			
Zinc	0.187	0.020	mg/L	0.200	ND	88.4	70-130			

Matrix Spike Dup (AG63917-MSD1)

Source: 16G1530-08

Prepared: 07/26/16 Analyzed: 07/29/16

Aluminum	1.94	0.050	mg/L	2.00	0.0954	92.3	70-130	1.92	20	
Boron	0.790	0.050	mg/L	0.400	0.418	93.1	70-130	1.66	20	
Calcium	111	1.0	mg/L	8.00	104	96.0	70-130	2.49	20	
Iron	1.98	0.10	mg/L	2.00	ND	94.2	70-130	1.69	20	
Magnesium	52.3	1.0	mg/L	8.00	43.5	110	70-130	2.27	20	
Manganese	0.193	0.020	mg/L	0.200	ND	93.1	70-130	1.87	20	
Sodium	173	1.0	mg/L	8.00	166	97.7	70-130	2.26	20	
Zinc	0.209	0.020	mg/L	0.200	0.0219	93.6	70-130	1.61	20	

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

Reported:
08/02/16 16:08

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 AG63678 - General Preparation										
Duplicate (AG63678-DUP1) Source: 16G1518-01 Prepared & Analyzed: 07/18/16										
pH	7.40	1.68	pH Units		7.44			0.539	20	
Batch AG63694 - General Preparation										
Blank (AG63694-BLK1) Prepared & Analyzed: 07/20/16										
Silica	ND	1.0	mg/L							
LCS (AG63694-BS1) Prepared & Analyzed: 07/20/16										
Silica	9.41	1.0	mg/L	10.0		94.1	85-115			
LCS Dup (AG63694-BSD1) Prepared & Analyzed: 07/20/16										
Silica	8.83	1.0	mg/L	10.0		88.3	85-115	6.33	20	
Duplicate (AG63694-DUP1) Source: 16G1536-02 Prepared & Analyzed: 07/20/16										
Silica	9.41	1.0	mg/L		9.91			5.18	20	
Matrix Spike (AG63694-MS1) Source: 16G1536-02 Prepared & Analyzed: 07/20/16										
Silica	12.3	1.0	mg/L	5.00	9.91	48.5	80-120			QM-05
Matrix Spike Dup (AG63694-MSD1) Source: 16G1536-02 Prepared & Analyzed: 07/20/16										
Silica	12.4	1.0	mg/L	5.00	9.91	50.8	80-120	0.932	20	QM-05
Batch AG63705 - General Preparation										
Blank (AG63705-BLK1) Prepared: 07/20/16 Analyzed: 07/25/16										
Total Suspended Solids	ND	1.0	mg/L							



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Project: WQ Monitoring
Project Number: [none]

Reported:
08/02/16 16:08

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 AG63705 - General Preparation										
Duplicate (AG63705-DUP1) Source: 16G1518-01 Prepared: 07/20/16 Analyzed: 07/25/16										
Total Suspended Solids	255	1.0	mg/L		259			1.44	30	
Duplicate (AG63705-DUP2) Source: 16G1521-03 Prepared: 07/20/16 Analyzed: 07/25/16										
Total Suspended Solids	217	1.0	mg/L		250			14.2	30	
Batch AG63711 - General Preparation										
Blank (AG63711-BLK1) Prepared: 07/22/16 Analyzed: 07/25/16										
Volatile Suspended Solids	ND	1.0	mg/L							
Duplicate (AG63711-DUP1) Source: 16G1518-01 Prepared: 07/22/16 Analyzed: 07/25/16										
Volatile Suspended Solids	230	1.0	mg/L		236			2.70	30	
Duplicate (AG63711-DUP2) Source: 16G1521-03 Prepared: 07/22/16 Analyzed: 07/25/16										
Volatile Suspended Solids	193	1.0	mg/L		222			14.0	30	
Batch AG63734 - General Preparation										
Duplicate (AG63734-DUP1) Source: 16G1599-01 Prepared & Analyzed: 07/19/16										
Specific Conductance (EC)	645	20	umhos/cm		646			0.155	5	
Batch AG63763 - General Preparation										
Blank (AG63763-BLK1) Prepared: 07/21/16 Analyzed: 07/26/16										
Total Dissolved Solids	ND	10	mg/L							



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

Reported:
08/02/16 16:08

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 AG63763 - General Preparation										
Duplicate (AG63763-DUP1)		Source: 16G1545-01		Prepared: 07/21/16 Analyzed: 07/26/16						
Total Dissolved Solids	332	10	mg/L		375			12.1	15	
Batch AG63801 - General Preparation										
Duplicate (AG63801-DUP1)		Source: 16G1841-01		Prepared & Analyzed: 07/26/16						
Bicarbonate	17.1	5.0	mg/L		17.1			0.00	20	
Bicarbonate Alkalinity as CaCO3	14.0	5.0	mg/L		14.0			0.00	20	
Total Alkalinity as CaCO3	14.0	5.0	mg/L		14.0			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	
Batch AG63867 - General Preparation										
Blank (AG63867-BLK1)				Prepared: 07/20/16 Analyzed: 07/25/16						
Biochemical Oxygen Demand	ND	5.0	mg/L							
Blank (AG63867-BLK2)				Prepared: 07/20/16 Analyzed: 07/25/16						
Biochemical Oxygen Demand	ND	5.0	mg/L							
LCS (AG63867-BS1)				Prepared: 07/20/16 Analyzed: 07/25/16						
Biochemical Oxygen Demand	212	5.0	mg/L	200		106	84-115			
Duplicate (AG63867-DUP1)		Source: 16G1524-03		Prepared: 07/20/16 Analyzed: 07/25/16						
Biochemical Oxygen Demand	210	5.0	mg/L		221			5.10	30	

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Project: WQ Monitoring
Project Number: [none]

Reported:
08/02/16 16:08

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 AG63879 - General Prep										
LCS (AG63879-BS1)				Prepared & Analyzed: 07/26/16						
Total Kjeldahl Nitrogen	2.95	1.0	mg/L	2.98		99.0	80-120			
LCS Dup (AG63879-BSD1)				Prepared & Analyzed: 07/26/16						
Total Kjeldahl Nitrogen	2.95	1.0	mg/L	2.98		99.0	80-120	0.00	20	
Matrix Spike (AG63879-MS1)				Source: 16G1521-01		Prepared: 07/27/16 Analyzed: 07/28/16				
Total Kjeldahl Nitrogen	93.2	1.0	mg/L	22.6	53.9	173	75-125			QM-4X
Matrix Spike Dup (AG63879-MSD1)				Source: 16G1521-01		Prepared: 07/27/16 Analyzed: 07/28/16				
Total Kjeldahl Nitrogen	93.2	1.0	mg/L	22.6	53.9	173	75-125	0.00	20	QM-4X
Batch AG63917 - Metals Digest										
Blank (AG63917-BLK1)				Prepared: 07/26/16 Analyzed: 07/29/16						
Hardness, Total	ND	5	mg/L							
Duplicate (AG63917-DUP1)				Source: 16G1530-08		Prepared: 07/26/16 Analyzed: 07/29/16				
Hardness, Total	454	5	mg/L		438			3.52	20	
Batch AG63991 - General Prep										
Blank (AG63991-BLK1)				Prepared & Analyzed: 07/28/16						
Phosphorus, total	ND	0.040	mg/L							
LCS (AG63991-BS1)				Prepared & Analyzed: 07/28/16						
Phosphorus, total	0.192	0.040	mg/L	0.200		95.9	85-115			

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



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e-mail: clientservices@alpha-labs.com

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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:
08/02/16 16:08

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 AG63991 - General Prep										
Duplicate (AG63991-DUP1)		Source: 16G1518-01		Prepared & Analyzed: 07/28/16						
Phosphorus, total	7.50	2.0	mg/L		7.57			0.889	20	
Matrix Spike (AG63991-MS1)		Source: 16G1518-01		Prepared & Analyzed: 07/28/16						
Phosphorus, total	8.78	2.0	mg/L	2.00	7.57	60.6	70-130			QM-4X
Matrix Spike Dup (AG63991-MSD1)		Source: 16G1518-01		Prepared & Analyzed: 07/28/16						
Phosphorus, total	8.78	2.0	mg/L	2.00	7.57	60.6	70-130	0.00	20	QM-4X
Batch AG64041 - General Preparation										
Blank (AG64041-BLK1)		Prepared & Analyzed: 07/29/16								
Ammonia as NH3	ND	0.50	mg/L							
LCS (AG64041-BS1)		Prepared & Analyzed: 07/29/16								
Ammonia as NH3	5.96	0.50	mg/L	6.10		97.7	90-110			
LCS Dup (AG64041-BSD1)		Prepared & Analyzed: 07/29/16								
Ammonia as NH3	5.85	0.50	mg/L	6.10		96.0	90-110	1.81	10	
Matrix Spike (AG64041-MS1)		Source: 16G1636-02		Prepared & Analyzed: 07/29/16						
Ammonia as NH3	12.3	0.50	mg/L	12.2	ND	101	85-115			
Matrix Spike Dup (AG64041-MSD1)		Source: 16G1636-02		Prepared & Analyzed: 07/29/16						
Ammonia as NH3	11.9	0.50	mg/L	12.2	ND	97.7	85-115	3.51	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:
08/02/16 16:08

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 AG63645 - General Preparation										
Blank (AG63645-BLK1)				Prepared & Analyzed: 07/19/16						
Chloride	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							
Sulfate as SO4	ND	0.50	mg/L							
LCS (AG63645-BS1)				Prepared & Analyzed: 07/19/16						
Nitrite as N	5.58	0.20	mg/L	5.56		100	90-110			
Chloride	11.5	0.50	mg/L	11.1		103	90-110			
Nitrite as NO2	18.3	1.0	mg/L	18.2		101	90-110			
Nitrate as N	5.86	0.20	mg/L	5.56		106	90-110			
Nitrate as NO3	26	1.0	mg/L	24.7		105	90-110			
Sulfate as SO4	22.9	0.50	mg/L	22.2		103	90-110			
Duplicate (AG63645-DUP1)				Source: 16G1539-01 Prepared & Analyzed: 07/19/16						
Nitrite as N	ND	0.20	mg/L		ND				20	
Chloride	1.77	0.50	mg/L		1.81			2.46	20	
Nitrate as N	0.518	0.20	mg/L		0.520			0.435	20	
Sulfate as SO4	ND	0.50	mg/L		ND			5.82	20	
Nitrate as NO3	2.3	1.0	mg/L		2.3			0.435	20	
Nitrite as NO2	ND	1.0	mg/L		ND				20	
Matrix Spike (AG63645-MS1)				Source: 16G1539-01 Prepared & Analyzed: 07/19/16						
Sulfate as SO4	23.6	0.50	mg/L	22.2	ND	105	80-120			
Chloride	13.4	0.50	mg/L	11.1	1.81	104	80-120			
Nitrite as N	5.62	0.20	mg/L	5.56	ND	101	80-120			
Nitrite as NO2	18.5	1.0	mg/L	18.2	ND	101	80-120			
Nitrate as N	6.47	0.20	mg/L	5.56	0.520	107	80-120			
Nitrate as NO3	29	1.0	mg/L	24.7	2.3	107	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: [none]

Reported:
08/02/16 16:08

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 AG63645 - General Preparation

Matrix Spike Dup (AG63645-MSD1)

Source: 16G1539-01

Prepared & Analyzed: 07/19/16

Chloride	13.3	0.50	mg/L	11.1	1.81	104	80-120	0.433	20	
Nitrite as NO2	18.3	1.0	mg/L	18.2	ND	101	80-120	0.834	20	
Nitrate as N	6.44	0.20	mg/L	5.56	0.520	107	80-120	0.493	20	
Sulfate as SO4	23.5	0.50	mg/L	22.2	ND	104	80-120	0.750	20	
Nitrate as NO3	29	1.0	mg/L	24.7	2.3	106	80-120	0.493	20	
Nitrite as N	5.57	0.20	mg/L	5.56	ND	100	80-120	0.834	20	



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Project Manager: John Simonetti
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Project Number: [none]

Reported:
08/02/16 16:08

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-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

Work Order Chain of Custody Record

Lab No. 11691524 Page 1 of 2 3.8

Company/Name: West Bay Sanitary District		Project ID: WQ Monitoring		Signature below authorizes work under terms stated on reverse side.														Sample Notes		TAT																							
Mailing Address: 500 Laurel Street Menlo Park, CA 94025		Project No:		Analysis Request														Sample Notes		TAT																							
Project Contact & Email (Hardcopy or PDF to): John Simonetti jsimonetti@westbaysanitary.org		PO#		<table border="1"> <tr> <td colspan="2">DU BOD</td> <td colspan="2">DU pH</td> <td colspan="2">200.7 - B, Ca, Mg, Na, Al, Fe, Mn, Zn</td> <td colspan="2">Ammonia, Phosphorus</td> <td colspan="2">Total Nitrogen</td> <td colspan="2">Sulfate, Chloride, EC, NO₂, NO₃</td> <td colspan="2">Alkalinity, Bicarbonate</td> <td colspan="2">SAR Adjusted Calculation</td> <td colspan="2">Silica</td> <td colspan="2">TDS</td> <td colspan="2">TSS</td> <td colspan="2">VSS</td> <td colspan="2">Hardness Calc</td> </tr> </table>																		DU BOD		DU pH		200.7 - B, Ca, Mg, Na, Al, Fe, Mn, Zn		Ammonia, Phosphorus		Total Nitrogen		Sulfate, Chloride, EC, NO ₂ , NO ₃		Alkalinity, Bicarbonate		SAR Adjusted Calculation		Silica		TDS		TSS	
DU BOD		DU pH		200.7 - B, Ca, Mg, Na, Al, Fe, Mn, Zn		Ammonia, Phosphorus		Total Nitrogen		Sulfate, Chloride, EC, NO ₂ , NO ₃		Alkalinity, Bicarbonate		SAR Adjusted Calculation		Silica		TDS		TSS		VSS		Hardness Calc																			
Phone/Fax:		Site Contact: John Simonetti																<input type="radio"/> 24 hr. <input type="radio"/> 48 hr. Lab Approval Required		<input type="radio"/> 1 wk. <input type="radio"/> 2 wk (standard) Lab Approval Required For Rush																							
Field Sampler - Print Name & Signature Mark Paturion		Sample Collection		Container				Preservative				Matrix																															
Sample Identification		Date Time		40ml Vial				Poly Glass Sleeve Other				HCL HNO ₃ H ₂ SO ₄ Other None Water Soil Other																															
G13104		7-17-0910		5				1 1 3 X				X X																															
071716 A		7-17-0940		5				1 1 3 X				X X																															
071716 B		7-17-0830		5				1 1 3 X				X X																															
G13220																																											
G13223																																											
071716 C																																											
Relinquished by: Mark Paturion		Received by: [Signature]		Date 7/18/16		Time 1:30		CDPH Write On EDT Report? Yes <input type="radio"/> No <input type="radio"/>																																			
Relinquished by: [Signature]		Received by: RS		Date 7/18/16		Time 1645		State System Number: _____																																			
Relinquished by: RS		Received by: [Signature]		Date 7/18		Time 1700		CA Geotracker EDF Report Yes <input type="radio"/> No <input type="radio"/>																																			
Relinquished by: [Signature]		Received by: [Signature]		Date 7/18		Time 2:00		Sampling Company Log Code: _____																																			
Relinquished by:		Received by:		Date		Time		Global ID: _____ EDF to (Email Address): _____																																			
								Travel and Site Time: _____ Mileage: _____ Misc. Supplies: _____																																			

Lab No: 1651524 Page 22 of 2

Company/Name: West Bay Sanitary District		Project ID: WQ Monitoring		Signature below authorizes work under terms stated on reverse side.														Sample Notes		TAT																																		
Mailing Address: 500 Laurel Street Menlo Park, CA 94025		Project No:		<table border="1"> <tr> <td colspan="14">Analysis Request</td> <td colspan="2">Sample Notes</td> <td colspan="1">TAT</td> </tr> <tr> <td colspan="14"></td> <td colspan="2"></td> <td colspan="1"> <input type="radio"/> 24 hr <input type="radio"/> 48 hr <input type="radio"/> 1 wk <input type="radio"/> 2 wk (standard) </td> </tr> </table>														Analysis Request														Sample Notes		TAT																	<input type="radio"/> 24 hr <input type="radio"/> 48 hr <input type="radio"/> 1 wk <input type="radio"/> 2 wk (standard)			Lab Approval Required For Rush
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Phone/Fax:		Site Contact: John Simonetti																																																				
Field Sampler - Print Name & Signature Mark Raturion		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, Al, Fe, Mn, Zn	Ammonia, Phosphorus	Total Nitrogen	Sulfate, Chloride, EC, NO2, NO3	Alkalinity, Bicarbonate	SAR Adjusted Calculation	Silica	TDS	TSS	VSS	Hardness Calc																									
G13104		7-18-09 10		5					1	1			3	x			x	x	x	x	x	x	x	x	x	x	x	x	x	x	x																							
071716 A																																																						
G13220		7-18-09 40		5					1	1			3	x			x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x																						
071716 B																																																						
G13223		7-18-09 30		5					1	1			3	x			x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x																						
071716 C																																																						
Relinquished by: Mark Raturion		Received by: 		Date 7-18-09		Time 1330		CDPH Write On EDT Report? Yes <input type="radio"/> No <input type="radio"/>														State System Number:																																
Relinquished by:		Received by:		Date		Time		CA Geotracker/EDF Report Yes <input type="radio"/> No <input type="radio"/>														Sampling Company Log Code:																																
Relinquished by:		Received by:		Date		Time		Global ID: EDF to (Email Address)														Travel and Site Time:		Mileage:	Misc. Supplies:																													



Sheri Speaks <speaks78@gmail.com>

Fwd: Scanned Doc - 2FL Scanner 07/19/2016 09:07

1 message

Robbie Phillips <robbie@alpha-labs.com>
To: Sheri Speaks <speaks78@gmail.com>

Tue, Jul 19, 2016 at 10:16 AM

Robbie C. Phillips
650-464-3237

Begin forwarded message:

From: Jed Beyer <JBeyer@westbaysanitary.org>
Date: July 19, 2016 at 10:11:49 PDT
To: "robbie@alpha-labs.com" <robbie@alpha-labs.com>
Subject: FW: Scanned Doc - 2FL Scanner 07/19/2016 09:07

Hi Robbie,

We had to amend some dates. Please see the attached forms.

Thank you,

Jed

-----Original Message-----

From: 2FL-Scanner [mailto:it@westbaysanitary.org]
Sent: Tuesday, July 19, 2016 9:07 AM
To: Jed Beyer
Subject: Scanned Doc - 2FL Scanner 07/19/2016 09:07

Scanned from MFP11330137
Date:07/19/2016 09:07
Pages:2
Resolution:200x200 DPI



Alpha

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ELAP Certificates 1551, 2728, and 2922

03 August 2016

West Bay Sanitary District

Attn: John Simonetti

500 Laurel Street

Menlo Park, CA 94025

RE: WQ Monitoring

Work Order: 16G1633

Enclosed are the results of analyses for samples received by the laboratory on 07/19/16 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:
08/03/16 11:11

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
G13104 / 071816A	16G1633-01	Water	07/19/16 09:00	07/19/16 21:00
G13220 / 071816B	16G1633-02	Water	07/19/16 09:25	07/19/16 21:00
G13223 / 071816C	16G1633-03	Water	07/19/16 08:30	07/19/16 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:
08/03/16 11:11

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13104 / 071816A (16G1633-01)		Sample Type: Water			Sampled: 07/19/16 09:00			
Metals (Drinking Water) by EPA 200 Series Methods								
Potassium	16 mg/L	1.0	1	AG63976	07/27/16 13:04	08/01/16 16:30	EPA 200.7	
Metals by EPA 200 Series Methods								
Aluminum	0.29 mg/L	0.050	1	AG63976	07/27/16 13:04	08/01/16 16:30	EPA 200.7	
Boron	0.20 mg/L	0.050	1	AG63976	07/27/16 13:04	08/01/16 16:30	EPA 200.7	
Calcium	14 mg/L	1.0	1	AG63976	07/27/16 13:04	08/01/16 16:30	EPA 200.7	
Iron	0.90 mg/L	0.10	1	AG63976	07/27/16 13:04	08/01/16 16:30	EPA 200.7	
Magnesium	4.9 mg/L	1.0	1	AG63976	07/27/16 13:04	08/01/16 16:30	EPA 200.7	
Manganese	0.065 mg/L	0.020	1	AG63976	07/27/16 13:04	08/01/16 16:30	EPA 200.7	
Sodium	46 mg/L	1.0	1	AG63976	07/27/16 13:04	08/01/16 16:30	EPA 200.7	
Zinc	0.13 mg/L	0.020	1	AG63976	07/27/16 13:04	08/01/16 16:30	EPA 200.7	
Conventional Chemistry Parameters by APHA/EPA Methods								
Ammonia as NH3	48 mg/L	0.50	1	AG64041	07/29/16 08:13	07/29/16 17:00	SM4500NH3C	
Bicarbonate	240 mg/L	5.0	1	AG63802	07/27/16 08:00	07/27/16 16:30	SM2320B	
Biochemical Oxygen Demand	160 mg/L	5.0	1	AG63867	07/20/16 11:00	07/25/16 12:00	SM5210B	
pH	7.39 pH Units	1.68	1	AG63731	07/19/16 18:40	07/19/16 18:40	SM4500-H+ B	T-14
Specific Conductance (EC)	700 umhos/cm	20	1	AG63799	07/20/16 16:00	07/20/16 17:00	SM2510B	
Total Dissolved Solids	290 mg/L	10	1	AG63844	07/26/16 09:30	07/28/16 16:25	SM2540C	
Total Suspended Solids	110 mg/L	1.0	1	AG63705	07/20/16 09:55	07/25/16 09:37	SM2540D	
Volatile Suspended Solids	100 mg/L	1.0	1	AG63711	07/22/16 10:00	07/25/16 16:30	EPA 160.4	
Silica	14 mg/L	5.0	5	AG63835	07/25/16 09:00	07/25/16 12:00	SM4500-SiO2 C	
Bicarbonate Alkalinity as CaCO3	200 mg/L	5.0	1	AG63802	07/27/16 08:00	07/27/16 16:30	SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AG63802	07/27/16 08:00	07/27/16 16:30	SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AG63802	07/27/16 08:00	07/27/16 16:30	SM2320B	
Total Alkalinity as CaCO3	200 mg/L	5.0	1	AG63802	07/27/16 08:00	07/27/16 16:30	SM2320B	
Total Kjeldahl Nitrogen	47 mg/L	1.0	1	AG63879	07/28/16 06:16	07/29/16 10:28	SM4500-Norg B	
Total Nitrogen	47 mg/L	1.0	1	AG63717	07/20/16 12:32	08/01/16 08:31	SM4500-N	
Hardness, Total	56 mg/L	5	1	AG63976	07/27/16 13:04	08/01/16 16:30	SM2340B	
Phosphorus, total	5.8 mg/L	0.80	2	AG64038	07/29/16 08:20	07/29/16 11:10	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:
08/03/16 11:11

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13104 / 071816A (16G1633-01)		Sample Type: Water			Sampled: 07/19/16 09:00			
Miscellaneous Physical/Conventional Chemistry Parameters								
Sodium Adsorption Ratio-Adj RNA	2.79 NA		1	AG63976	07/27/16 13:04	08/03/16 06:17	SAR	
Anions by EPA Method 300.0								
Chloride	45 mg/L	5.0	10	AG63687	07/20/16 14:25	07/20/16 14:25	EPA 300.0	
Nitrate as N	ND mg/L	0.20	1	AG63687	07/20/16 15:13	07/20/16 15:13	EPA 300.0	
Nitrate as NO3	ND mg/L	1.0	1	AG63687	07/20/16 15:13	07/20/16 15:13	EPA 300.0	
Nitrite as N	ND mg/L	0.20	1	AG63687	07/20/16 15:13	07/20/16 15:13	EPA 300.0	
Nitrite as NO2	ND mg/L	1.0	1	AG63687	07/20/16 15:13	07/20/16 15:13	EPA 300.0	
Sulfate as SO4	28 mg/L	0.50	1	AG63687	07/20/16 15:13	07/20/16 15:13	EPA 300.0	
G13220 / 071816B (16G1633-02)		Sample Type: Water			Sampled: 07/19/16 09:25			
Metals (Drinking Water) by EPA 200 Series Methods								
Potassium	18 mg/L	1.0	1	AG63976	07/27/16 13:04	08/01/16 16:34	EPA 200.7	
Metals by EPA 200 Series Methods								
Aluminum	0.65 mg/L	0.050	1	AG63976	07/27/16 13:04	08/01/16 16:34	EPA 200.7	
Boron	0.21 mg/L	0.050	1	AG63976	07/27/16 13:04	08/01/16 16:34	EPA 200.7	
Calcium	22 mg/L	1.0	1	AG63976	07/27/16 13:04	08/01/16 16:34	EPA 200.7	
Iron	1.9 mg/L	0.10	1	AG63976	07/27/16 13:04	08/01/16 16:34	EPA 200.7	
Magnesium	12 mg/L	1.0	1	AG63976	07/27/16 13:04	08/01/16 16:34	EPA 200.7	
Manganese	0.056 mg/L	0.020	1	AG63976	07/27/16 13:04	08/01/16 16:34	EPA 200.7	
Sodium	57 mg/L	1.0	1	AG63976	07/27/16 13:04	08/01/16 16:34	EPA 200.7	
Zinc	0.24 mg/L	0.020	1	AG63976	07/27/16 13:04	08/01/16 16:34	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:
08/03/16 11:11

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note	
G13220 / 071816B (16G1633-02)		Sample Type: Water			Sampled: 07/19/16 09:25				
Conventional Chemistry Parameters by APHA/EPA Methods									
Ammonia as NH3	60 mg/L	0.50	1	AG64041	07/29/16 08:13	07/29/16 17:00	SM4500NH3C		
Bicarbonate	290 mg/L	5.0	1	AG63802	07/27/16 08:00	07/27/16 16:30	SM2320B		
Biochemical Oxygen Demand	430 mg/L	5.0	1	AG63867	07/20/16 11:00	07/25/16 12:00	SM5210B		
pH	7.45 pH Units	1.68	1	AG63731	07/19/16 18:40	07/19/16 18:40	SM4500-H+ B	T-14	
Specific Conductance (EC)	840 umhos/cm	20	1	AG63799	07/20/16 16:00	07/20/16 17:00	SM2510B		
Total Dissolved Solids	360 mg/L	10	1	AG63844	07/26/16 09:30	07/28/16 16:25	SM2540C		
Total Suspended Solids	520 mg/L	1.0	1	AG63705	07/20/16 09:55	07/25/16 09:37	SM2540D		
Volatile Suspended Solids	490 mg/L	1.0	1	AG63711	07/22/16 10:00	07/25/16 16:30	EPA 160.4		
Silica	16 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	AG63802	07/27/16 08:00	07/27/16 16:30	SM2320B		
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AG63802	07/27/16 08:00	07/27/16 16:30	SM2320B		
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AG63802	07/27/16 08:00	07/27/16 16:30	SM2320B		
Total Alkalinity as CaCO3	240 mg/L	5.0	1	AG63802	07/27/16 08:00	07/27/16 16:30	SM2320B		
Total Kjeldahl Nitrogen	76 mg/L	1.0	1	AG63879	07/28/16 06:16	07/29/16 10:28	SM4500-Norg B		
Total Nitrogen	76 mg/L	1.0	1	AG63717	07/20/16 12:32	08/01/16 08:31	SM4500-N		
Hardness, Total	103 mg/L	5	1	AG63976	07/27/16 13:04	08/01/16 16:34	SM2340B		
Phosphorus, total	12 mg/L	2.0	5	AG64038	07/29/16 08:20	07/29/16 11:10	SM4500-P E		
Miscellaneous Physical/Conventional Chemistry Parameters									
Sodium Adsorption Ratio-Adj RNA	2.70 NA		1	AG63976	07/27/16 13:04	08/03/16 06:17	SAR		
Anions by EPA Method 300.0									
Chloride	58 mg/L	10	20	AG63687	07/20/16 16:50	07/20/16 16:50	EPA 300.0		
Nitrate as N	ND mg/L	0.20	1	AG63687	07/20/16 17:06	07/20/16 17:06	EPA 300.0		
Nitrate as NO3	ND mg/L	1.0	1	AG63687	07/20/16 17:06	07/20/16 17:06	EPA 300.0		
Nitrite as N	ND mg/L	0.20	1	AG63687	07/20/16 17:06	07/20/16 17:06	EPA 300.0		
Nitrite as NO2	ND mg/L	1.0	1	AG63687	07/20/16 17:06	07/20/16 17:06	EPA 300.0		
Sulfate as SO4	50 mg/L	10	20	AG63687	07/20/16 16:50	07/20/16 16:50	EPA 300.0		
G13223 / 071816C (16G1633-03)		Sample Type: Water			Sampled: 07/19/16 08:30				
Metals (Drinking Water) by EPA 200 Series Methods									
Potassium	19 mg/L	1.0	1	AG63976	07/27/16 13:04	08/01/16 16:54	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:
08/03/16 11:11

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13223 / 071816C (16G1633-03)		Sample Type: Water			Sampled: 07/19/16 08:30			
Metals by EPA 200 Series Methods								
Aluminum	0.58 mg/L	0.050	1	AG63976	07/27/16 13:04	08/01/16 16:54	EPA 200.7	
Boron	0.19 mg/L	0.050	1	AG63976	07/27/16 13:04	08/01/16 16:54	EPA 200.7	
Calcium	19 mg/L	1.0	1	AG63976	07/27/16 13:04	08/01/16 16:54	EPA 200.7	
Iron	1.4 mg/L	0.10	1	AG63976	07/27/16 13:04	08/01/16 16:54	EPA 200.7	
Magnesium	12 mg/L	1.0	1	AG63976	07/27/16 13:04	08/01/16 16:54	EPA 200.7	
Manganese	0.059 mg/L	0.020	1	AG63976	07/27/16 13:04	08/01/16 16:54	EPA 200.7	
Sodium	62 mg/L	1.0	1	AG63976	07/27/16 13:04	08/01/16 16:54	EPA 200.7	
Zinc	0.21 mg/L	0.020	1	AG63976	07/27/16 13:04	08/01/16 16:54	EPA 200.7	
Conventional Chemistry Parameters by APHA/EPA Methods								
Ammonia as NH3	56 mg/L	0.50	1	AG64041	07/29/16 08:13	07/29/16 17:00	SM4500NH3C	
Bicarbonate	310 mg/L	5.0	1	AG63802	07/27/16 08:00	07/27/16 16:30	SM2320B	
Biochemical Oxygen Demand	330 mg/L	5.0	1	AG63867	07/20/16 11:00	07/25/16 12:00	SM5210B	
pH	7.42 pH Units	1.68	1	AG63731	07/19/16 18:40	07/19/16 18:40	SM4500-H+ B	T-14
Specific Conductance (EC)	900 umhos/cm	20	1	AG63799	07/20/16 16:00	07/20/16 17:00	SM2510B	
Total Dissolved Solids	390 mg/L	10	1	AG63844	07/26/16 09:30	07/28/16 16:25	SM2540C	
Total Suspended Solids	350 mg/L	1.0	1	AG63705	07/20/16 09:55	07/25/16 09:37	SM2540D	
Volatile Suspended Solids	310 mg/L	1.0	1	AG63711	07/22/16 10:00	07/25/16 16:30	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	260 mg/L	5.0	1	AG63802	07/27/16 08:00	07/27/16 16:30	SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AG63802	07/27/16 08:00	07/27/16 16:30	SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AG63802	07/27/16 08:00	07/27/16 16:30	SM2320B	
Total Alkalinity as CaCO3	260 mg/L	5.0	1	AG63802	07/27/16 08:00	07/27/16 16:30	SM2320B	
Total Kjeldahl Nitrogen	64 mg/L	1.0	1	AG63879	07/28/16 06:16	07/29/16 10:28	SM4500-Norg B	
Total Nitrogen	64 mg/L	1.0	1	AG63717	07/20/16 12:32	08/01/16 08:31	SM4500-N	
Hardness, Total	97 mg/L	5	1	AG63976	07/27/16 13:04	08/01/16 16:54	SM2340B	
Phosphorus, total	8.9 mg/L	0.80	2	AG64038	07/29/16 08:20	07/29/16 11:10	SM4500-PE	

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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:
08/03/16 11:11

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13223 / 071816C (16G1633-03)		Sample Type: Water			Sampled: 07/19/16 08:30			
Miscellaneous Physical/Conventional Chemistry Parameters								
Sodium Adsorption Ratio-Adj RNA	2.96 NA		1	AG63976	07/27/16 13:04	08/03/16 06:17	SAR	
Anions by EPA Method 300.0								
Chloride	65 mg/L	10	20	AG63687	07/20/16 17:22	07/20/16 17:22	EPA 300.0	
Nitrate as N	ND mg/L	0.20	1	AG63687	07/20/16 17:38	07/20/16 17:38	EPA 300.0	
Nitrate as NO3	ND mg/L	1.0	1	AG63687	07/20/16 17:38	07/20/16 17:38	EPA 300.0	
Nitrite as N	ND mg/L	0.20	1	AG63687	07/20/16 17:38	07/20/16 17:38	EPA 300.0	
Nitrite as NO2	ND mg/L	1.0	1	AG63687	07/20/16 17:38	07/20/16 17:38	EPA 300.0	
Sulfate as SO4	57 mg/L	10	20	AG63687	07/20/16 17:22	07/20/16 17:22	EPA 300.0	



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Reported:
08/03/16 11:11

Metals (Drinking Water) 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 AG63976 - Metals Digest										
Blank (AG63976-BLK1)				Prepared: 07/27/16 Analyzed: 08/01/16						
Potassium	ND	1.0	mg/L							
LCS (AG63976-BS1)				Prepared: 07/27/16 Analyzed: 08/01/16						
Potassium	7.28	1.0	mg/L	8.00		91.0	85-115			
Duplicate (AG63976-DUP1)				Source: 16G1562-01 Prepared: 07/27/16 Analyzed: 08/01/16						
Potassium	1.46	1.0	mg/L		1.51			3.12	20	
Matrix Spike (AG63976-MS1)				Source: 16G1562-01 Prepared: 07/27/16 Analyzed: 08/01/16						
Potassium	8.65	1.0	mg/L	8.00	1.51	89.2	70-130			
Matrix Spike (AG63976-MS2)				Source: 16G1657-01 Prepared: 07/27/16 Analyzed: 08/01/16						
Potassium	9.02	1.0	mg/L	8.00	1.45	94.6	70-130			
Matrix Spike Dup (AG63976-MSD1)				Source: 16G1562-01 Prepared: 07/27/16 Analyzed: 08/01/16						
Potassium	8.56	1.0	mg/L	8.00	1.51	88.2	70-130	0.976	20	



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

Reported:
08/03/16 11:11

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
Batch AG63976 - Metals Digest										
Blank (AG63976-BLK1)				Prepared: 07/27/16 Analyzed: 08/01/16						
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 (AG63976-BS1)				Prepared: 07/27/16 Analyzed: 08/01/16						
Aluminum	1.89	0.050	mg/L	2.00		94.4	85-115			
Boron	0.389	0.050	mg/L	0.400		97.3	85-115			
Calcium	7.45	1.0	mg/L	8.00		93.2	85-115			
Iron	1.95	0.10	mg/L	2.00		97.5	85-115			
Magnesium	7.71	1.0	mg/L	8.00		96.4	85-115			
Manganese	0.194	0.020	mg/L	0.200		96.8	85-115			
Sodium	7.99	1.0	mg/L	8.00		99.9	85-115			
Zinc	0.202	0.020	mg/L	0.200		101	85-115			
Duplicate (AG63976-DUP1)				Source: 16G1562-01 Prepared: 07/27/16 Analyzed: 08/01/16						
Aluminum	ND	0.050	mg/L		ND			5.07	20	
Boron	0.0812	0.050	mg/L		0.0850			4.55	20	
Calcium	75.0	1.0	mg/L		78.6			4.70	20	
Iron	ND	0.10	mg/L		0.101			6.43	20	
Magnesium	19.7	1.0	mg/L		21.0			6.32	20	
Manganese	ND	0.020	mg/L		ND			9.82	20	
Sodium	19.2	1.0	mg/L		20.2			4.87	20	
Zinc	ND	0.020	mg/L		ND				20	

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

Reported:
08/03/16 11:11

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
Batch AG63976 - Metals Digest										
Matrix Spike (AG63976-MS1)		Source: 16G1562-01			Prepared: 07/27/16		Analyzed: 08/01/16			
Aluminum	1.93	0.050	mg/L	2.00	ND	94.8	70-130			
Boron	0.447	0.050	mg/L	0.400	0.0850	90.4	70-130			
Calcium	88.9	1.0	mg/L	8.00	78.6	128	70-130			
Iron	2.01	0.10	mg/L	2.00	0.101	95.6	70-130			
Magnesium	28.7	1.0	mg/L	8.00	21.0	95.8	70-130			
Manganese	0.195	0.020	mg/L	0.200	ND	95.4	70-130			
Sodium	29.1	1.0	mg/L	8.00	20.2	112	70-130			
Zinc	0.196	0.020	mg/L	0.200	ND	98.0	70-130			
Matrix Spike (AG63976-MS2)		Source: 16G1657-01			Prepared: 07/27/16		Analyzed: 08/01/16			
Aluminum	1.97	0.050	mg/L	2.00	ND	96.9	70-130			
Boron	0.561	0.050	mg/L	0.400	0.186	93.7	70-130			
Calcium	93.5	1.0	mg/L	8.00	84.1	118	70-130			
Iron	1.96	0.10	mg/L	2.00	ND	96.1	70-130			
Magnesium	78.3	1.0	mg/L	8.00	70.2	101	70-130			
Manganese	0.193	0.020	mg/L	0.200	ND	96.1	70-130			
Sodium	54.3	1.0	mg/L	8.00	45.4	112	70-130			
Zinc	0.192	0.020	mg/L	0.200	ND	96.0	70-130			
Matrix Spike Dup (AG63976-MSD1)		Source: 16G1562-01			Prepared: 07/27/16		Analyzed: 08/01/16			
Aluminum	1.90	0.050	mg/L	2.00	ND	93.1	70-130	1.74	20	
Boron	0.445	0.050	mg/L	0.400	0.0850	89.9	70-130	0.400	20	
Calcium	83.3	1.0	mg/L	8.00	78.6	58.4	70-130	6.49	20	QM-4X
Iron	1.99	0.10	mg/L	2.00	0.101	94.6	70-130	1.08	20	
Magnesium	28.5	1.0	mg/L	8.00	21.0	94.1	70-130	0.489	20	
Manganese	0.192	0.020	mg/L	0.200	ND	93.8	70-130	1.68	20	
Sodium	27.3	1.0	mg/L	8.00	20.2	88.4	70-130	6.68	20	
Zinc	0.195	0.020	mg/L	0.200	ND	97.4	70-130	0.598	20	

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

Reported:
08/03/16 11:11

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
Batch AG63705 - General Preparation										
Blank (AG63705-BLK1)				Prepared: 07/20/16 Analyzed: 07/25/16						
Total Suspended Solids	ND	1.0	mg/L							
Duplicate (AG63705-DUP1)				Source: 16G1518-01 Prepared: 07/20/16 Analyzed: 07/25/16						
Total Suspended Solids	255	1.0	mg/L		259			1.44	30	
Duplicate (AG63705-DUP2)				Source: 16G1521-03 Prepared: 07/20/16 Analyzed: 07/25/16						
Total Suspended Solids	217	1.0	mg/L		250			14.2	30	
Batch AG63711 - General Preparation										
Blank (AG63711-BLK1)				Prepared: 07/22/16 Analyzed: 07/25/16						
Volatile Suspended Solids	ND	1.0	mg/L							
Duplicate (AG63711-DUP1)				Source: 16G1518-01 Prepared: 07/22/16 Analyzed: 07/25/16						
Volatile Suspended Solids	230	1.0	mg/L		236			2.70	30	
Duplicate (AG63711-DUP2)				Source: 16G1521-03 Prepared: 07/22/16 Analyzed: 07/25/16						
Volatile Suspended Solids	193	1.0	mg/L		222			14.0	30	
Batch AG63731 - General Preparation										
Duplicate (AG63731-DUP1)				Source: 16G1740-01 Prepared & Analyzed: 07/19/16						
pH	8.27	1.68	pH Units		8.35			0.963	20	
Batch AG63799 - General Preparation										
Duplicate (AG63799-DUP1)				Source: 16G1772-01 Prepared & Analyzed: 07/20/16						
Specific Conductance (EC)	450	20	umhos/cm		449			0.222	5	

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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:
08/03/16 11:11

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
Batch AG63802 - General Preparation										
Duplicate (AG63802-DUP1)		Source: 16G1883-01			Prepared & Analyzed: 07/27/16					
Bicarbonate	63.4	5.0	mg/L		62.2			1.94	20	
Total Alkalinity as CaCO ₃	52.0	5.0	mg/L		51.0			1.94	20	
Bicarbonate Alkalinity as CaCO ₃	52.0	5.0	mg/L		51.0			1.94	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	
Batch AG63835 - General Preparation										
Blank (AG63835-BLK1)					Prepared & Analyzed: 07/25/16					
Silica	ND	1.0	mg/L							
LCS (AG63835-BS1)					Prepared & Analyzed: 07/25/16					
Silica	9.92	1.0	mg/L	10.0		99.2	85-115			
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	
Duplicate (AG63835-DUP1)		Source: 16G1952-03			Prepared & Analyzed: 07/25/16					
Silica	17.4	5.0	mg/L		17.0			2.14	20	
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			
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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West Bay Sanitary District
500 Laurel Street
Menlo Park, CA 94025

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

Reported:
08/03/16 11:11

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
Batch AG63844 - General Preparation										
Blank (AG63844-BLK1)				Prepared: 07/26/16 Analyzed: 07/28/16						
Total Dissolved Solids	ND	10	mg/L							
Duplicate (AG63844-DUP1)				Source: 16G1974-01 Prepared: 07/26/16 Analyzed: 07/28/16						
Total Dissolved Solids	353	10	mg/L		355			0.379	15	
Duplicate (AG63844-DUP2)				Source: 16G1833-01 Prepared: 07/26/16 Analyzed: 07/28/16						
Total Dissolved Solids	158	10	mg/L		153			3.22	15	
Batch AG63867 - General Preparation										
Blank (AG63867-BLK1)				Prepared: 07/20/16 Analyzed: 07/25/16						
Biochemical Oxygen Demand	ND	5.0	mg/L							
Blank (AG63867-BLK2)				Prepared: 07/20/16 Analyzed: 07/25/16						
Biochemical Oxygen Demand	ND	5.0	mg/L							
LCS (AG63867-BS1)				Prepared: 07/20/16 Analyzed: 07/25/16						
Biochemical Oxygen Demand	212	5.0	mg/L	200		106	84-115			
Duplicate (AG63867-DUP1)				Source: 16G1524-03 Prepared: 07/20/16 Analyzed: 07/25/16						
Biochemical Oxygen Demand	210	5.0	mg/L		221			5.10	30	
Batch AG63879 - General Prep										
LCS (AG63879-BS1)				Prepared & Analyzed: 07/26/16						
Total Kjeldahl Nitrogen	2.95	1.0	mg/L	2.98		99.0	80-120			



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

Reported:
08/03/16 11:11

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
Batch AG63879 - General Prep										
LCS Dup (AG63879-BSD1)				Prepared & Analyzed: 07/26/16						
Total Kjeldahl Nitrogen	2.95	1.0	mg/L	2.98		99.0	80-120	0.00	20	
Matrix Spike (AG63879-MS1)				Source: 16G1521-01 Prepared: 07/27/16 Analyzed: 07/28/16						
Total Kjeldahl Nitrogen	93.2	1.0	mg/L	22.6	53.9	173	75-125			QM-4X
Matrix Spike Dup (AG63879-MSD1)				Source: 16G1521-01 Prepared: 07/27/16 Analyzed: 07/28/16						
Total Kjeldahl Nitrogen	93.2	1.0	mg/L	22.6	53.9	173	75-125	0.00	20	QM-4X
Batch AG63976 - Metals Digest										
Blank (AG63976-BLK1)				Prepared: 07/27/16 Analyzed: 08/01/16						
Hardness, Total	ND	5	mg/L							
Duplicate (AG63976-DUP1)				Source: 16G1562-01 Prepared: 07/27/16 Analyzed: 08/01/16						
Hardness, Total	268	5	mg/L		283			5.19	20	
Batch AG64038 - General Prep										
Blank (AG64038-BLK1)				Prepared & Analyzed: 07/29/16						
Phosphorus, total	ND	0.040	mg/L							
LCS (AG64038-BS1)				Prepared & Analyzed: 07/29/16						
Phosphorus, total	0.203	0.040	mg/L	0.200		102	85-115			
Duplicate (AG64038-DUP1)				Source: 16G1775-01 Prepared & Analyzed: 07/29/16						
Phosphorus, total	0.505	0.20	mg/L		0.512			1.31	20	

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

Reported:
08/03/16 11:11

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
Batch AG64038 - General Prep										
Matrix Spike (AG64038-MS1)		Source: 16G1775-01		Prepared & Analyzed: 07/29/16						
Phosphorus, total	1.43	0.20	mg/L	1.00	0.512	92.3	70-130			
Matrix Spike Dup (AG64038-MSD1)		Source: 16G1775-01		Prepared & Analyzed: 07/29/16						
Phosphorus, total	1.43	0.20	mg/L	1.00	0.512	92.3	70-130	0.00	20	
Batch AG64041 - General Preparation										
Blank (AG64041-BLK1)		Prepared & Analyzed: 07/29/16								
Ammonia as NH3	ND	0.50	mg/L							
LCS (AG64041-BS1)		Prepared & Analyzed: 07/29/16								
Ammonia as NH3	5.96	0.50	mg/L	6.10		97.7	90-110			
LCS Dup (AG64041-BSD1)		Prepared & Analyzed: 07/29/16								
Ammonia as NH3	5.85	0.50	mg/L	6.10		96.0	90-110	1.81	10	
Matrix Spike (AG64041-MS1)		Source: 16G1636-02		Prepared & Analyzed: 07/29/16						
Ammonia as NH3	12.3	0.50	mg/L	12.2	ND	101	85-115			
Matrix Spike Dup (AG64041-MSD1)		Source: 16G1636-02		Prepared & Analyzed: 07/29/16						
Ammonia as NH3	11.9	0.50	mg/L	12.2	ND	97.7	85-115	3.51	20	

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

Reported:
08/03/16 11:11

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
Batch AG63687 - General Preparation										
LCS (AG63687-BS1)				Prepared & Analyzed: 07/20/16						
Nitrite as NO2	18.5	1.0	mg/L	18.2		102	90-110			
Chloride	11.6	0.50	mg/L	11.1		104	90-110			
Nitrite as N	5.64	0.20	mg/L	5.56		102	90-110			
Nitrate as N	5.90	0.20	mg/L	5.56		106	90-110			
Sulfate as SO4	23.2	0.50	mg/L	22.2		104	90-110			
Nitrate as NO3	26	1.0	mg/L	24.7		106	90-110			
Duplicate (AG63687-DUP1)				Source: 16G1615-01 Prepared & Analyzed: 07/20/16						
Chloride	13.1	0.50	mg/L		12.9			1.51	20	
Nitrite as N	ND	0.20	mg/L		ND				20	
Nitrite as NO2	ND	1.0	mg/L		ND				20	
Sulfate as SO4	3.56	0.50	mg/L		3.57			0.281	20	
Nitrate as N	0.583	0.20	mg/L		0.588			0.964	20	
Nitrate as NO3	2.6	1.0	mg/L		2.6			0.964	20	
Matrix Spike (AG63687-MS1)				Source: 16G1615-01 Prepared & Analyzed: 07/20/16						
Nitrate as N	6.55	0.20	mg/L	5.56	0.588	107	80-120			
Nitrite as NO2	18.5	1.0	mg/L	18.2	ND	102	80-120			
Nitrite as N	5.65	0.20	mg/L	5.56	ND	102	80-120			
Sulfate as SO4	27.2	0.50	mg/L	22.2	3.57	106	80-120			
Chloride	23.6	0.50	mg/L	11.1	12.9	96.5	80-120			
Nitrate as NO3	29	1.0	mg/L	24.7	2.6	107	80-120			
Matrix Spike (AG63687-MS2)				Source: 16G1641-01 Prepared & Analyzed: 07/20/16						
Nitrite as N	5.71	0.20	mg/L	5.56	ND	103	80-120			
Nitrate as NO3	27	1.0	mg/L	24.7	ND	107	80-120			
Sulfate as SO4	23.7	0.50	mg/L	22.2	ND	106	80-120			
Nitrite as NO2	18.8	1.0	mg/L	18.2	ND	103	80-120			
Chloride	12.7	0.50	mg/L	11.1	0.936	106	80-120			
Nitrate as N	5.99	0.20	mg/L	5.56	ND	107	80-120			

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

Reported:
08/03/16 11:11

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 AG63687 - General Preparation

Matrix Spike Dup (AG63687-MSD1)

Source: 16G1615-01

Prepared & Analyzed: 07/20/16

Sulfate as SO4	27.5	0.50	mg/L	22.2	3.57	108	80-120	1.11	20	
Nitrite as N	5.73	0.20	mg/L	5.56	ND	103	80-120	1.47	20	
Chloride	23.8	0.50	mg/L	11.1	12.9	98.0	80-120	0.703	20	
Nitrate as NO3	29	1.0	mg/L	24.7	2.6	109	80-120	1.56	20	
Nitrate as N	6.65	0.20	mg/L	5.56	0.588	109	80-120	1.56	20	
Nitrite as NO2	18.8	1.0	mg/L	18.2	ND	103	80-120	1.47	20	



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Reported:
08/03/16 11:11

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.
- 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.												Sample Notes		TAT																											
Mailing Address: 500 Laurel Street Menlo Park, CA 94025		Project No:		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="12">Analysis Request</th> <th rowspan="2">Hardness Calc</th> </tr> <tr> <th>DU BOD</th> <th>DU PH</th> <th>200.7 - B, Ca, Mg, Na, Al, Fe, Mn, Zn</th> <th>Ammonia, Phosphorus</th> <th>Total Nitrogen</th> <th>Sulfate, Chloride, EC, NO2, NO3</th> <th>Alkalinity, Bicarbonate</th> <th>SAR Adjusted Calculation</th> <th>Silica</th> <th>TDS</th> <th>TSS</th> <th>VSS</th> <th rowspan="2">K DU 2007</th> </tr> </table>												Analysis Request												Hardness Calc	DU BOD	DU PH	200.7 - B, Ca, Mg, Na, Al, Fe, Mn, Zn	Ammonia, Phosphorus	Total Nitrogen	Sulfate, Chloride, EC, NO2, NO3	Alkalinity, Bicarbonate	SAR Adjusted Calculation	Silica	TDS	TSS	VSS	K DU 2007	5.8		<input type="radio"/> 24 hr <input type="radio"/> 48 hr <input type="radio"/> 1 wk <input type="radio"/> 2 wk (standard)	
Analysis Request																Hardness Calc																													
DU BOD	DU PH	200.7 - B, Ca, Mg, Na, Al, Fe, Mn, Zn	Ammonia, Phosphorus	Total Nitrogen	Sulfate, Chloride, EC, NO2, NO3	Alkalinity, Bicarbonate	SAR Adjusted Calculation	Silica	TDS	TSS	VSS	K DU 2007																																	
Project Contact & Email (Hardcopy or PDF to): John Simonetti jsimonetti@westbaysanitary.org		PO#		Lab Approval Required For Rush																																									
Phone/Fax:		Site Contact: <i>John Simonetti</i>																																											
Field Sampler - Print Name & Signature <i>JCS Bofx</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, Al, Fe, Mn, Zn	Ammonia, Phosphorus	Total Nitrogen	Sulfate, Chloride, EC, NO2, NO3	Alkalinity, Bicarbonate	SAR Adjusted Calculation	Silica	TDS	TSS	VSS	Hardness Calc																
G13104		7/19 0900		5						1	1			3	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	X														
071816A		7/19 0925		5						1	1			3	x		x	x	x	x	x	x	x	x	x	x	x	x	x	X															
G13220		7/19 0830		5						1	1			3	x		x	x	x	x	x	x	x	x	x	x	x	x	x	X															
071816B																																													
G13223																																													
071816C																																													
Relinquished by: <i>[Signature]</i>		Received by: <i>[Signature]</i>		Date: 7/19/16		Time: 1334		CDPH Write On EDT Report? Yes <input type="radio"/> No <input type="radio"/>																																					
Relinquished by: <i>[Signature]</i>		Received by: <i>[Signature]</i>		Date: 7/19		Time: 1610		State System Number: _____																																					
Relinquished by: <i>[Signature]</i>		Received by: <i>[Signature]</i>		Date: 7/19		Time: 1710		CA Geotracker EDF Report Yes <input type="radio"/> No <input type="radio"/>																																					
Relinquished by: <i>[Signature]</i>		Received by: <i>[Signature]</i>		Date: 7/19		Time: 2100		Sampling Company Log Code: _____																																					
Relinquished by: _____		Received by: _____		Date: _____		Time: _____		Global ID: _____ EDF to (Email Address): _____																																					
Travel and Site Time:		Mileage:		Misc. Supplies:																																									



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ELAP Certificates 1551, 2728, and 2922

04 August 2016

West Bay Sanitary District

Attn: John Simonetti

500 Laurel Street

Menlo Park, CA 94025

RE: WQ Monitoring

Work Order: 16G1817

Enclosed are the results of analyses for samples received by the laboratory on 07/20/16 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:
08/04/16 16:25

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
G13104 / 071916A	16G1817-01	Water	07/20/16 08:50	07/20/16 21:00
G13220 / 071916B	16G1817-02	Water	07/20/16 09:20	07/20/16 21:00
G13223 / 071916C	16G1817-03	Water	07/20/16 08:15	07/20/16 21:00



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Project: WQ Monitoring
Project Number: [none]

Reported:
08/04/16 16:25

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13104 / 071916A (16G1817-01)		Sample Type: Water			Sampled: 07/20/16 08:50			
Metals (Drinking Water) by EPA 200 Series Methods								
Potassium	14 mg/L	1.0	1	AG64062	07/29/16 12:05	08/02/16 14:51	EPA 200.7	
Metals by EPA 200 Series Methods								
Aluminum	0.39 mg/L	0.050	1	AG64062	07/29/16 12:05	08/02/16 14:51	EPA 200.7	
Boron	0.25 mg/L	0.050	1	AG64062	07/29/16 12:05	08/02/16 14:51	EPA 200.7	
Calcium	18 mg/L	1.0	1	AG64062	07/29/16 12:05	08/02/16 14:51	EPA 200.7	
Iron	1.2 mg/L	0.10	1	AG64062	07/29/16 12:05	08/02/16 14:51	EPA 200.7	
Magnesium	4.1 mg/L	1.0	1	AG64062	07/29/16 12:05	08/02/16 14:51	EPA 200.7	
Manganese	0.070 mg/L	0.020	1	AG64062	07/29/16 12:05	08/02/16 14:51	EPA 200.7	
Sodium	51 mg/L	1.0	1	AG64062	07/29/16 12:05	08/02/16 14:51	EPA 200.7	
Zinc	0.15 mg/L	0.020	1	AG64062	07/29/16 12:05	08/02/16 14:51	EPA 200.7	
Conventional Chemistry Parameters by APHA/EPA Methods								
Ammonia as NH3	60 mg/L	0.50	1	AH63179	08/02/16 08:08	08/02/16 17:00	SM4500NH3C	
Bicarbonate	240 mg/L	5.0	1	AG63802	07/27/16 08:00	07/27/16 16:30	SM2320B	
Biochemical Oxygen Demand	240 mg/L	5.0	1	AG63922	07/21/16 15:30	07/26/16 13:00	SM5210B	
pH	7.52 pH Units	1.68	1	AG63765	07/20/16 19:00	07/20/16 19:00	SM4500-H+ B	T-14
Specific Conductance (EC)	710 umhos/cm	20	1	AG63848	07/21/16 16:00	07/21/16 17:00	SM2510B	
Total Dissolved Solids	340 mg/L	10	1	AG63928	07/26/16 14:57	08/02/16 17:08	SM2540C	
Total Suspended Solids	170 mg/L	1.0	1	AG63888	07/26/16 08:30	07/28/16 14:30	SM2540D	
Volatile Suspended Solids	160 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	AG63835	07/25/16 09:00	07/25/16 12:00	SM4500-SiO2 C	
Bicarbonate Alkalinity as CaCO3	200 mg/L	5.0	1	AG63802	07/27/16 08:00	07/27/16 16:30	SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AG63802	07/27/16 08:00	07/27/16 16:30	SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AG63802	07/27/16 08:00	07/27/16 16:30	SM2320B	
Total Alkalinity as CaCO3	200 mg/L	5.0	1	AG63802	07/27/16 08:00	07/27/16 16:30	SM2320B	
Total Kjeldahl Nitrogen	46 mg/L	1.0	1	AG63879	07/28/16 06:16	08/01/16 14:03	SM4500-Norg B	
Total Nitrogen	46 mg/L	1.0	1	AG63891	07/26/16 09:20	08/01/16 16:53	SM4500-N	
Hardness, Total	63 mg/L	5	1	AG64062	07/29/16 12:05	08/02/16 14:51	SM2340B	
Phosphorus, total	5.9 mg/L	0.80	2	AG64038	07/29/16 08:20	07/29/16 11:10	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:
08/04/16 16:25

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13104 / 071916A (16G1817-01)		Sample Type: Water			Sampled: 07/20/16 08:50			
Miscellaneous Physical/Conventional Chemistry Parameters								
Sodium Adsorption Ratio-Adj RNA	3.02 NA		1	AG64062	07/29/16 12:05	08/04/16 05:44	SAR	
Anions by EPA Method 300.0								
Chloride	64 mg/L	5.0	10	AG63742	07/21/16 18:20	07/21/16 18:20	EPA 300.0	
Nitrate as N	ND mg/L	0.20	1	AG63742	07/21/16 18:36	07/21/16 18:36	EPA 300.0	
Nitrate as NO3	ND mg/L	1.0	1	AG63742	07/21/16 18:36	07/21/16 18:36	EPA 300.0	
Nitrite as N	ND mg/L	0.20	1	AG63742	07/21/16 18:36	07/21/16 18:36	EPA 300.0	
Nitrite as NO2	ND mg/L	1.0	1	AG63742	07/21/16 18:36	07/21/16 18:36	EPA 300.0	
Sulfate as SO4	20 mg/L	0.50	1	AG63742	07/21/16 18:36	07/21/16 18:36	EPA 300.0	
G13220 / 071916B (16G1817-02)		Sample Type: Water			Sampled: 07/20/16 09:20			
Metals (Drinking Water) by EPA 200 Series Methods								
Potassium	13 mg/L	1.0	1	AG64062	07/29/16 12:05	08/02/16 14:56	EPA 200.7	
Metals by EPA 200 Series Methods								
Aluminum	0.63 mg/L	0.050	1	AG64062	07/29/16 12:05	08/02/16 14:56	EPA 200.7	
Boron	0.13 mg/L	0.050	1	AG64062	07/29/16 12:05	08/02/16 14:56	EPA 200.7	
Calcium	24 mg/L	1.0	1	AG64062	07/29/16 12:05	08/02/16 14:56	EPA 200.7	
Iron	1.8 mg/L	0.10	1	AG64062	07/29/16 12:05	08/02/16 14:56	EPA 200.7	
Magnesium	13 mg/L	1.0	1	AG64062	07/29/16 12:05	08/02/16 14:56	EPA 200.7	
Manganese	0.053 mg/L	0.020	1	AG64062	07/29/16 12:05	08/02/16 14:56	EPA 200.7	
Sodium	48 mg/L	1.0	1	AG64062	07/29/16 12:05	08/02/16 14:56	EPA 200.7	
Zinc	0.22 mg/L	0.020	1	AG64062	07/29/16 12:05	08/02/16 14:56	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:
08/04/16 16:25

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note	
G13220 / 071916B (16G1817-02)		Sample Type: Water			Sampled: 07/20/16 09:20				
Conventional Chemistry Parameters by APHA/EPA Methods									
Ammonia as NH3	61 mg/L	0.50	1	AH63179	08/02/16 08:08	08/02/16 17:00	SM4500NH3C		
Bicarbonate	250 mg/L	5.0	1	AG63802	07/27/16 08:00	07/27/16 16:30	SM2320B		
Biochemical Oxygen Demand	210 mg/L	5.0	1	AG63922	07/21/16 15:30	07/26/16 13:00	SM5210B		
pH	7.55 pH Units	1.68	1	AG63765	07/20/16 19:00	07/20/16 19:00	SM4500-H+ B	T-14	
Specific Conductance (EC)	790 umhos/cm	20	1	AG63848	07/21/16 16:00	07/21/16 17:00	SM2510B		
Total Dissolved Solids	540 mg/L	10	1	AG63928	07/26/16 14:57	08/03/16 12:23	SM2540C		
Total Suspended Solids	220 mg/L	1.0	1	AG63888	07/26/16 08:30	07/28/16 14:30	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	18 mg/L	5.0	5	AG63835	07/25/16 09:00	07/25/16 12:00	SM4500-SiO2 C		
Bicarbonate Alkalinity as CaCO3	200 mg/L	5.0	1	AG63802	07/27/16 08:00	07/27/16 16:30	SM2320B		
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AG63802	07/27/16 08:00	07/27/16 16:30	SM2320B		
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AG63802	07/27/16 08:00	07/27/16 16:30	SM2320B		
Total Alkalinity as CaCO3	200 mg/L	5.0	1	AG63802	07/27/16 08:00	07/27/16 16:30	SM2320B		
Total Kjeldahl Nitrogen	49 mg/L	1.0	1	AG63879	07/28/16 06:16	08/01/16 14:03	SM4500-Norg B		
Total Nitrogen	49 mg/L	1.0	1	AG63891	07/26/16 09:20	08/01/16 16:53	SM4500-N		
Hardness, Total	115 mg/L	5	1	AG64062	07/29/16 12:05	08/02/16 14:56	SM2340B		
Phosphorus, total	7.0 mg/L	0.80	2	AG64038	07/29/16 08:20	07/29/16 11:10	SM4500-P E		
Miscellaneous Physical/Conventional Chemistry Parameters									
Sodium Adsorption Ratio-Adj RNA	2.09 NA		1	AG64062	07/29/16 12:05	08/04/16 05:44	SAR		
Anions by EPA Method 300.0									
Chloride	55 mg/L	5.0	10	AG63742	07/21/16 18:53	07/21/16 18:53	EPA 300.0		
Nitrate as N	ND mg/L	0.20	1	AG63742	07/21/16 19:09	07/21/16 19:09	EPA 300.0		
Nitrate as NO3	ND mg/L	1.0	1	AG63742	07/21/16 19:09	07/21/16 19:09	EPA 300.0		
Nitrite as N	ND mg/L	0.20	1	AG63742	07/21/16 19:09	07/21/16 19:09	EPA 300.0		
Nitrite as NO2	ND mg/L	1.0	1	AG63742	07/21/16 19:09	07/21/16 19:09	EPA 300.0		
Sulfate as SO4	73 mg/L	5.0	10	AG63742	07/21/16 18:53	07/21/16 18:53	EPA 300.0		
G13223 / 071916C (16G1817-03)		Sample Type: Water			Sampled: 07/20/16 08:15				
Metals (Drinking Water) by EPA 200 Series Methods									
Potassium	16 mg/L	1.0	1	AG64062	07/29/16 12:05	08/02/16 15:00	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:
08/04/16 16:25

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note	
G13223 / 071916C (16G1817-03)		Sample Type: Water			Sampled: 07/20/16 08:15				
Metals by EPA 200 Series Methods									
Aluminum	0.62 mg/L	0.050	1	AG64062	07/29/16 12:05	08/02/16 15:00	EPA 200.7		
Boron	0.17 mg/L	0.050	1	AG64062	07/29/16 12:05	08/02/16 15:00	EPA 200.7		
Calcium	15 mg/L	1.0	1	AG64062	07/29/16 12:05	08/02/16 15:00	EPA 200.7		
Iron	1.5 mg/L	0.10	1	AG64062	07/29/16 12:05	08/02/16 15:00	EPA 200.7		
Magnesium	5.6 mg/L	1.0	1	AG64062	07/29/16 12:05	08/02/16 15:00	EPA 200.7		
Manganese	0.057 mg/L	0.020	1	AG64062	07/29/16 12:05	08/02/16 15:00	EPA 200.7		
Sodium	45 mg/L	1.0	1	AG64062	07/29/16 12:05	08/02/16 15:00	EPA 200.7		
Zinc	0.20 mg/L	0.020	1	AG64062	07/29/16 12:05	08/02/16 15:00	EPA 200.7		
Conventional Chemistry Parameters by APHA/EPA Methods									
Ammonia as NH3	66 mg/L	0.50	1	AH63179	08/02/16 08:08	08/02/16 17:00	SM4500NH3C		
Bicarbonate	310 mg/L	5.0	1	AG63802	07/27/16 08:00	07/27/16 16:30	SM2320B		
Biochemical Oxygen Demand	260 mg/L	5.0	1	AG63922	07/21/16 15:30	07/26/16 13:00	SM5210B		
pH	7.50 pH Units	1.68	1	AG63765	07/20/16 19:00	07/20/16 19:00	SM4500-H+ B	T-14	
Specific Conductance (EC)	840 umhos/cm	20	1	AG63848	07/21/16 16:00	07/21/16 17:00	SM2510B		
Total Dissolved Solids	350 mg/L	10	1	AG63928	07/26/16 14:57	08/02/16 17:08	SM2540C		
Total Suspended Solids	280 mg/L	1.0	1	AG63836	07/25/16 09:02	07/26/16 11:30	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	19 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	AG63802	07/27/16 08:00	07/27/16 16:30	SM2320B		
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AG63802	07/27/16 08:00	07/27/16 16:30	SM2320B		
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AG63802	07/27/16 08:00	07/27/16 16:30	SM2320B		
Total Alkalinity as CaCO3	260 mg/L	5.0	1	AG63802	07/27/16 08:00	07/27/16 16:30	SM2320B		
Total Kjeldahl Nitrogen	72 mg/L	1.0	1	AG63879	07/28/16 06:16	08/01/16 14:03	SM4500-Norg B		
Total Nitrogen	72 mg/L	1.0	1	AG63891	07/26/16 09:20	08/01/16 16:53	SM4500-N		
Hardness, Total	61 mg/L	5	1	AG64062	07/29/16 12:05	08/02/16 15:00	SM2340B		
Phosphorus, total	9.0 mg/L	2.0	5	AG64038	07/29/16 08:20	07/29/16 11:10	SM4500-PE		

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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:
08/04/16 16:25

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13223 / 071916C (16G1817-03)		Sample Type: Water			Sampled: 07/20/16 08:15			
Miscellaneous Physical/Conventional Chemistry Parameters								
Sodium Adsorption Ratio-Adj RNa	2.77 NA		1	AG64062	07/29/16 12:05	08/04/16 05:44	SAR	
Anions by EPA Method 300.0								
Chloride	58 mg/L	5.0	10	AG63742	07/21/16 19:25	07/21/16 19:25	EPA 300.0	
Nitrate as N	ND mg/L	0.20	1	AG63742	07/21/16 19:41	07/21/16 19:41	EPA 300.0	
Nitrate as NO3	ND mg/L	1.0	1	AG63742	07/21/16 19:41	07/21/16 19:41	EPA 300.0	
Nitrite as N	ND mg/L	0.20	1	AG63742	07/21/16 19:41	07/21/16 19:41	EPA 300.0	
Nitrite as NO2	ND mg/L	1.0	1	AG63742	07/21/16 19:41	07/21/16 19:41	EPA 300.0	
Sulfate as SO4	29 mg/L	0.50	1	AG63742	07/21/16 19:41	07/21/16 19:41	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: [none]

Reported:
08/04/16 16:25

Metals (Drinking Water) 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 AG64062 - Metals Digest										
Blank (AG64062-BLK1)				Prepared: 07/29/16 Analyzed: 08/02/16						
Potassium	ND	1.0	mg/L							
LCS (AG64062-BS1)				Prepared: 07/29/16 Analyzed: 08/02/16						
Potassium	7.29	1.0	mg/L	8.00		91.1	85-115			
Duplicate (AG64062-DUP1)				Source: 16G1991-01 Prepared: 07/29/16 Analyzed: 08/02/16						
Potassium	1.29	1.0	mg/L		1.31			1.52	20	
Matrix Spike (AG64062-MS1)				Source: 16G1991-01 Prepared: 07/29/16 Analyzed: 08/02/16						
Potassium	8.42	1.0	mg/L	8.00	1.31	88.9	70-130			
Matrix Spike (AG64062-MS2)				Source: 16G1866-01 Prepared: 07/29/16 Analyzed: 08/02/16						
Potassium	11.2	1.0	mg/L	8.00	4.36	85.1	70-130			
Matrix Spike Dup (AG64062-MSD1)				Source: 16G1991-01 Prepared: 07/29/16 Analyzed: 08/02/16						
Potassium	9.08	1.0	mg/L	8.00	1.31	97.2	70-130	7.57	20	



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500 Laurel Street
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Project Manager: John Simonetti
Project: WQ Monitoring
Project Number: [none]

Reported:
08/04/16 16:25

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 AG64062 - Metals Digest										
Blank (AG64062-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 (AG64062-BS1)				Prepared: 07/29/16 Analyzed: 08/02/16						
Aluminum	1.78	0.050	mg/L	2.00		88.8	85-115			
Boron	0.366	0.050	mg/L	0.400		91.5	85-115			
Calcium	7.02	1.0	mg/L	8.00		87.8	85-115			
Iron	1.84	0.10	mg/L	2.00		91.8	85-115			
Magnesium	7.04	1.0	mg/L	8.00		88.0	85-115			
Manganese	0.181	0.020	mg/L	0.200		90.6	85-115			
Sodium	7.25	1.0	mg/L	8.00		90.6	85-115			
Zinc	0.183	0.020	mg/L	0.200		91.7	85-115			
Duplicate (AG64062-DUP1)				Source: 16G1991-01 Prepared: 07/29/16 Analyzed: 08/02/16						
Aluminum	ND	0.050	mg/L		ND			2.44	20	
Boron	0.119	0.050	mg/L		0.117			1.67	20	
Calcium	109	1.0	mg/L		108			1.49	20	
Iron	ND	0.10	mg/L		ND				20	
Magnesium	6.52	1.0	mg/L		6.72			3.08	20	
Manganese	ND	0.020	mg/L		ND			3.57	20	
Sodium	18.2	1.0	mg/L		17.8			1.98	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:
08/04/16 16:25

Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
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Batch AG64062 - Metals Digest

Matrix Spike (AG64062-MS1)

Source: 16G1991-01

Prepared: 07/29/16 Analyzed: 08/02/16

Aluminum	1.75	0.050	mg/L	2.00	ND	86.1	70-130			
Boron	0.452	0.050	mg/L	0.400	0.117	83.6	70-130			
Calcium	112	1.0	mg/L	8.00	108	55.0	70-130			QM-4X
Iron	1.73	0.10	mg/L	2.00	ND	86.6	70-130			
Magnesium	12.9	1.0	mg/L	8.00	6.72	77.5	70-130			
Manganese	0.171	0.020	mg/L	0.200	ND	85.4	70-130			
Sodium	24.6	1.0	mg/L	8.00	17.8	85.1	70-130			
Zinc	0.175	0.020	mg/L	0.200	ND	87.3	70-130			

Matrix Spike (AG64062-MS2)

Source: 16G1866-01

Prepared: 07/29/16 Analyzed: 08/02/16

Aluminum	1.88	0.050	mg/L	2.00	ND	91.8	70-130			
Boron	0.590	0.050	mg/L	0.400	0.215	93.8	70-130			
Calcium	93.1	1.0	mg/L	8.00	88.8	53.9	70-130			QM-4X
Iron	1.92	0.10	mg/L	2.00	ND	94.3	70-130			
Magnesium	43.8	1.0	mg/L	8.00	36.2	94.8	70-130			
Manganese	0.191	0.020	mg/L	0.200	ND	93.4	70-130			
Sodium	56.0	1.0	mg/L	8.00	49.9	76.5	70-130			
Zinc	0.184	0.020	mg/L	0.200	ND	91.9	70-130			

Matrix Spike Dup (AG64062-MSD1)

Source: 16G1991-01

Prepared: 07/29/16 Analyzed: 08/02/16

Aluminum	1.92	0.050	mg/L	2.00	ND	94.4	70-130	9.04	20	
Boron	0.498	0.050	mg/L	0.400	0.117	95.2	70-130	9.81	20	
Calcium	115	1.0	mg/L	8.00	108	84.7	70-130	2.09	20	
Iron	1.92	0.10	mg/L	2.00	ND	95.9	70-130	10.1	20	
Magnesium	13.9	1.0	mg/L	8.00	6.72	89.8	70-130	7.35	20	
Manganese	0.189	0.020	mg/L	0.200	ND	94.1	70-130	9.68	20	
Sodium	25.2	1.0	mg/L	8.00	17.8	92.7	70-130	2.44	20	
Zinc	0.192	0.020	mg/L	0.200	ND	96.1	70-130	9.56	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:
08/04/16 16:25

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 AG63765 - General Preparation										
Duplicate (AG63765-DUP1)		Source: 16G1808-01		Prepared & Analyzed: 07/20/16						
pH	6.72	1.68	pH Units		6.79			1.04	20	
Batch AG63802 - General Preparation										
Duplicate (AG63802-DUP1)		Source: 16G1883-01		Prepared & Analyzed: 07/27/16						
Bicarbonate	63.4	5.0	mg/L		62.2			1.94	20	
Hydroxide Alkalinity as CaCO ₃	ND	5.0	mg/L		ND				20	
Carbonate Alkalinity as CaCO ₃	ND	5.0	mg/L		ND				20	
Bicarbonate Alkalinity as CaCO ₃	52.0	5.0	mg/L		51.0			1.94	20	
Total Alkalinity as CaCO ₃	52.0	5.0	mg/L		51.0			1.94	20	
Batch AG63835 - General Preparation										
Blank (AG63835-BLK1)				Prepared & Analyzed: 07/25/16						
Silica	ND	1.0	mg/L							
LCS (AG63835-BS1)				Prepared & Analyzed: 07/25/16						
Silica	9.92	1.0	mg/L	10.0		99.2	85-115			
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	
Duplicate (AG63835-DUP1)		Source: 16G1952-03		Prepared & Analyzed: 07/25/16						
Silica	17.4	5.0	mg/L		17.0			2.14	20	
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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Menlo Park, CA 94025

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

Reported:
08/04/16 16:25

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 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	
Batch AG63836 - General Preparation										
Blank (AG63836-BLK1)				Prepared: 07/25/16 Analyzed: 07/26/16						
Total Suspended Solids	ND	1.0	mg/L							
Duplicate (AG63836-DUP1)		Source: 16G1591-02		Prepared: 07/25/16 Analyzed: 07/26/16						
Total Suspended Solids	328	1.0	mg/L		274			18.2	30	
Duplicate (AG63836-DUP2)		Source: 16G1817-03		Prepared: 07/25/16 Analyzed: 07/26/16						
Total Suspended Solids	369	1.0	mg/L		282			26.7	30	
Batch AG63848 - General Preparation										
Duplicate (AG63848-DUP1)		Source: 16G1868-02		Prepared & Analyzed: 07/21/16						
Specific Conductance (EC)	811	20	umhos/cm		796			1.87	5	
Batch AG63879 - General Prep										
LCS (AG63879-BS1)				Prepared & Analyzed: 07/26/16						
Total Kjeldahl Nitrogen	2.95	1.0	mg/L	2.98		99.0	80-120			
LCS Dup (AG63879-BSD1)				Prepared & Analyzed: 07/26/16						
Total Kjeldahl Nitrogen	2.95	1.0	mg/L	2.98		99.0	80-120	0.00	20	



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

Reported:
08/04/16 16:25

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 AG63879 - General Prep										
Matrix Spike (AG63879-MS1)		Source: 16G1521-01		Prepared: 07/27/16 Analyzed: 07/28/16						
Total Kjeldahl Nitrogen	93.2	1.0	mg/L	22.6	53.9	173	75-125			QM-4X
Matrix Spike Dup (AG63879-MSD1)		Source: 16G1521-01		Prepared: 07/27/16 Analyzed: 07/28/16						
Total Kjeldahl Nitrogen	93.2	1.0	mg/L	22.6	53.9	173	75-125	0.00	20	QM-4X
Batch AG63888 - General Preparation										
Blank (AG63888-BLK1)				Prepared: 07/26/16 Analyzed: 07/28/16						
Total Suspended Solids	ND	1.0	mg/L							
Duplicate (AG63888-DUP1)		Source: 16G1817-01		Prepared: 07/26/16 Analyzed: 07/28/16						
Total Suspended Solids	152	1.0	mg/L		166			8.94	30	
Duplicate (AG63888-DUP2)		Source: 16G1817-02		Prepared: 07/26/16 Analyzed: 07/28/16						
Total Suspended Solids	237	1.0	mg/L		222			6.54	30	
Batch AG63922 - General Preparation										
Blank (AG63922-BLK1)				Prepared: 07/21/16 Analyzed: 07/26/16						
Biochemical Oxygen Demand	ND	5.0	mg/L							
Blank (AG63922-BLK2)				Prepared: 07/21/16 Analyzed: 07/26/16						
Biochemical Oxygen Demand	ND	5.0	mg/L							
LCS (AG63922-BS1)				Prepared: 07/20/16 Analyzed: 07/25/16						
Biochemical Oxygen Demand	212	5.0	mg/L	200		106	84-115			

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Project: WQ Monitoring
Project Number: [none]

Reported:
08/04/16 16:25

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 AG63922 - General Preparation										
Duplicate (AG63922-DUP1) Source: 16G1890-02 Prepared: 07/21/16 Analyzed: 07/26/16										
Biochemical Oxygen Demand	32.0	5.0	mg/L		33.9			5.77	30	
Batch AG63928 - General Preparation										
Blank (AG63928-BLK1) Prepared: 07/26/16 Analyzed: 08/02/16										
Total Dissolved Solids	ND	10	mg/L							
Duplicate (AG63928-DUP1) Source: 16G1817-01 Prepared: 07/26/16 Analyzed: 08/02/16										
Total Dissolved Solids	376	10	mg/L		340			10.1	15	
Duplicate (AG63928-DUP2) Source: 16G1859-02 Prepared: 07/26/16 Analyzed: 08/02/16										
Total Dissolved Solids	272	10	mg/L		257			5.67	15	
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 AG64038 - General Prep										
Blank (AG64038-BLK1) Prepared & Analyzed: 07/29/16										
Phosphorus, total	ND	0.040	mg/L							

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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	%REC Limits	RPD	RPD Limit	Flag
Batch AG64038 - General Prep										
LCS (AG64038-BS1)				Prepared & Analyzed: 07/29/16						
Phosphorus, total	0.203	0.040	mg/L	0.200		102	85-115			
Duplicate (AG64038-DUP1)				Source: 16G1775-01 Prepared & Analyzed: 07/29/16						
Phosphorus, total	0.505	0.20	mg/L		0.512			1.31	20	
Matrix Spike (AG64038-MS1)				Source: 16G1775-01 Prepared & Analyzed: 07/29/16						
Phosphorus, total	1.43	0.20	mg/L	1.00	0.512	92.3	70-130			
Matrix Spike Dup (AG64038-MSD1)				Source: 16G1775-01 Prepared & Analyzed: 07/29/16						
Phosphorus, total	1.43	0.20	mg/L	1.00	0.512	92.3	70-130	0.00	20	
Batch AG64062 - Metals Digest										
Blank (AG64062-BLK1)				Prepared: 07/29/16 Analyzed: 08/02/16						
Hardness, Total	ND	5	mg/L							
Duplicate (AG64062-DUP1)				Source: 16G1991-01 Prepared: 07/29/16 Analyzed: 08/02/16						
Hardness, Total	300	5	mg/L		297			1.07	20	
Batch AH63179 - General Preparation										
Blank (AH63179-BLK1)				Prepared & Analyzed: 08/02/16						
Ammonia as NH3	ND	0.50	mg/L							
LCS (AH63179-BS1)				Prepared & Analyzed: 08/02/16						
Ammonia as NH3	5.96	0.50	mg/L	6.10		97.7	90-110			

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

Reported:
08/04/16 16:25

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 AH63179 - General Preparation										
LCS Dup (AH63179-BSD1)				Prepared & Analyzed: 08/02/16						
Ammonia as NH3	5.75	0.50	mg/L	6.10		94.2	90-110	3.64	10	
Matrix Spike (AH63179-MS1)				Source: 16G2534-02 Prepared & Analyzed: 08/02/16						
Ammonia as NH3	11.9	0.50	mg/L	12.2	ND	97.7	85-115			
Matrix Spike Dup (AH63179-MSD1)				Source: 16G2534-02 Prepared & Analyzed: 08/02/16						
Ammonia as NH3	12.1	0.50	mg/L	12.2	ND	99.5	85-115	1.77	20	



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

Reported:
08/04/16 16:25

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 AG63742 - General Preparation										
Blank (AG63742-BLK1)				Prepared & Analyzed: 07/21/16						
Nitrate as NO3	ND	1.0	mg/L							
Nitrate as N	ND	0.20	mg/L							
Nitrite as N	ND	0.20	mg/L							
Chloride	ND	0.50	mg/L							
Sulfate as SO4	ND	0.50	mg/L							
Nitrite as NO2	ND	1.0	mg/L							
LCS (AG63742-BS1)				Prepared & Analyzed: 07/21/16						
Nitrite as N	5.54	0.20	mg/L	5.56		99.7	90-110			
Nitrate as N	5.81	0.20	mg/L	5.56		105	90-110			
Chloride	11.4	0.50	mg/L	11.1		103	90-110			
Nitrite as NO2	18.2	1.0	mg/L	18.2		99.9	90-110			
Nitrate as NO3	26	1.0	mg/L	24.7		104	90-110			
Sulfate as SO4	22.9	0.50	mg/L	22.2		103	90-110			
Duplicate (AG63742-DUP1)				Source: 16G1826-01			Prepared & Analyzed: 07/21/16			
Nitrite as NO2	ND	1.0	mg/L		ND				20	
Nitrite as N	ND	0.20	mg/L		ND				20	
Chloride	44.9	2.5	mg/L		45.1			0.289	20	
Nitrate as NO3	ND	1.0	mg/L		ND			2.73	20	
Nitrate as N	ND	0.20	mg/L		ND			2.73	20	
Sulfate as SO4	9.40	0.50	mg/L		9.34			0.640	20	
Matrix Spike (AG63742-MS1)				Source: 16G1826-01			Prepared & Analyzed: 07/21/16			
Chloride	56.0	2.5	mg/L	11.1	45.1	98.2	80-120			
Sulfate as SO4	31.8	2.5	mg/L	22.2	9.34	101	80-120			
Nitrite as N	5.27	1.0	mg/L	5.56	ND	94.9	80-120			
Nitrate as NO3	25	5.0	mg/L	24.7	ND	99.7	80-120			
Nitrate as N	5.60	1.0	mg/L	5.56	ND	99.9	80-120			
Nitrite as NO2	17.3	5.0	mg/L	18.2	ND	95.1	80-120			

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Menlo Park, CA 94025

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

Reported:
08/04/16 16:25

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 AG63742 - General Preparation										
Matrix Spike (AG63742-MS2)		Source: 16G1833-01			Prepared & Analyzed: 07/21/16					
Nitrite as N	5.73	0.20	mg/L	5.56	ND	102	80-120			
Chloride	18.0	0.50	mg/L	11.1	6.70	102	80-120			
Nitrate as N	6.02	0.20	mg/L	5.56	ND	107	80-120			
Sulfate as SO4	35.4	0.50	mg/L	22.2	12.1	105	80-120			
Nitrite as NO2	18.8	1.0	mg/L	18.2	ND	102	80-120			
Nitrate as NO3	27	1.0	mg/L	24.7	ND	107	80-120			
Matrix Spike Dup (AG63742-MSD1)		Source: 16G1826-01			Prepared & Analyzed: 07/21/16					
Nitrite as N	5.25	1.0	mg/L	5.56	ND	94.5	80-120	0.422	20	
Nitrite as NO2	17.2	5.0	mg/L	18.2	ND	94.7	80-120	0.422	20	
Sulfate as SO4	31.8	2.5	mg/L	22.2	9.34	101	80-120	0.0524	20	
Chloride	55.9	2.5	mg/L	11.1	45.1	97.6	80-120	0.119	20	
Nitrate as NO3	25	5.0	mg/L	24.7	ND	100	80-120	0.625	20	
Nitrate as N	5.64	1.0	mg/L	5.56	ND	101	80-120	0.625	20	

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

Reported:
08/04/16 16:25

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



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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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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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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			
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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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	
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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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			
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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Reported:
08/05/16 16:14

Metals (Drinking Water) 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										
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	%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
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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
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	
Batch AG63835 - General Preparation										
Blank (AG63835-BLK1)					Prepared & Analyzed: 07/25/16					
Silica	ND	1.0	mg/L							
LCS (AG63835-BS1)					Prepared & Analyzed: 07/25/16					
Silica	9.92	1.0	mg/L	10.0		99.2	85-115			
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	
Duplicate (AG63835-DUP1)		Source: 16G1952-03			Prepared & Analyzed: 07/25/16					
Silica	17.4	5.0	mg/L		17.0			2.14	20	
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:
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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 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	
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	
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 AG63969 - General Preparation										
Blank (AG63969-BLK1)				Prepared: 07/22/16 Analyzed: 07/27/16						
Biochemical Oxygen Demand	ND	5.0	mg/L							
Blank (AG63969-BLK2)				Prepared: 07/22/16 Analyzed: 07/27/16						
Biochemical Oxygen Demand	ND	5.0	mg/L							



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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	%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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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-BSD1)				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-MSD1)				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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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
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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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

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										
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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Project: WQ Monitoring
Project Number: [none]

Reported:
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



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ELAP Certificates 1551, 2728, and 2922

09 August 2016

West Bay Sanitary District

Attn: John Simonetti

500 Laurel Street

Menlo Park, CA 94025

RE: WQ Monitoring

Work Order: 16G2111

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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Menlo Park, CA 94025

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

Reported:
08/09/16 16:17

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
G13104 / 072116A	16G2111-01	Water	07/22/16 09:10	07/25/16 21:00
G13220 / 072116B	16G2111-02	Water	07/22/16 09:50	07/25/16 21:00
G13223 / 072116C	16G2111-03	Water	07/22/16 08:35	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:
08/09/16 16:17

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13104 / 072116A (16G2111-01)		Sample Type: Water			Sampled: 07/22/16 09:10			
Metals (Drinking Water) by EPA 200 Series Methods								
Potassium	16 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 18:17	EPA 200.7	
Metals by EPA 200 Series Methods								
Aluminum	0.80 mg/L	0.050	1	AG64063	07/29/16 12:11	08/02/16 18:17	EPA 200.7	
Boron	0.19 mg/L	0.050	1	AG64063	07/29/16 12:11	08/02/16 18:17	EPA 200.7	
Calcium	20 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 18:17	EPA 200.7	
Iron	2.7 mg/L	0.10	1	AG64063	07/29/16 12:11	08/02/16 18:17	EPA 200.7	
Magnesium	5.1 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 18:17	EPA 200.7	
Manganese	0.097 mg/L	0.020	1	AG64063	07/29/16 12:11	08/02/16 18:17	EPA 200.7	
Sodium	45 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 18:17	EPA 200.7	
Zinc	0.31 mg/L	0.020	1	AG64063	07/29/16 12:11	08/02/16 18:17	EPA 200.7	
Conventional Chemistry Parameters by APHA/EPA Methods								
Ammonia as NH3	49 mg/L	0.50	1	AH63376	08/08/16 08:11	08/09/16 17:00	SM4500NH3C	
Bicarbonate	260 mg/L	5.0	1	AG63963	07/29/16 08:00	07/29/16 16:20	SM2320B	
Biochemical Oxygen Demand	210 mg/L	5.0	1	AG63969	07/22/16 18:00	07/27/16 12:30	SM5210B	
pH	7.40 pH Units	1.68	1	AG63920	07/25/16 19:00	07/25/16 19:00	SM4500-H+ B	T-14
Specific Conductance (EC)	720 umhos/cm	20	1	AG63944	07/26/16 16:00	07/26/16 17:00	SM2510B	
Total Dissolved Solids	380 mg/L	10	1	AG64010	07/28/16 12:00	08/03/16 12:08	SM2540C	
Total Suspended Solids	590 mg/L	1.0	1	AG63995	07/28/16 08:09	07/29/16 13:49	SM2540D	
Volatile Suspended Solids	550 mg/L	1.0	1	AG63933	07/26/16 15:40	08/03/16 16:54	EPA 160.4	
Silica	16 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	AG63963	07/29/16 08:00	07/29/16 16:20	SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AG63963	07/29/16 08:00	07/29/16 16:20	SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AG63963	07/29/16 08:00	07/29/16 16:20	SM2320B	
Total Alkalinity as CaCO3	220 mg/L	5.0	1	AG63963	07/29/16 08:00	07/29/16 16:20	SM2320B	
Total Kjeldahl Nitrogen	48 mg/L	1.0	1	AG64039	08/04/16 06:49	08/05/16 10:35	SM4500-Norg B	
Total Nitrogen	48 mg/L	1.0	1	AH63264	08/03/16 15:38	08/05/16 11:55	SM4500-N	
Hardness, Total	72 mg/L	5	1	AG64063	07/29/16 12:11	08/02/16 18:17	SM2340B	
Phosphorus, total	6.6 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:
08/09/16 16:17

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13104 / 072116A (16G2111-01)		Sample Type: Water			Sampled: 07/22/16 09:10			
Miscellaneous Physical/Conventional Chemistry Parameters								
Sodium Adsorption Ratio-Adj RNA	2.56 NA		1	AG64063	07/29/16 12:11	08/08/16 05:15	SAR	
Anions by EPA Method 300.0								
Chloride	53 mg/L	5.0	10	AG63895	07/26/16 14:26	07/26/16 14:26	EPA 300.0	
Nitrate as N	ND mg/L	0.20	1	AG63895	07/26/16 14:42	07/26/16 14:42	EPA 300.0	T-5
Nitrate as NO3	ND mg/L	1.0	1	AG63895	07/26/16 14:42	07/26/16 14:42	EPA 300.0	T-5
Nitrite as N	ND mg/L	0.20	1	AG63985	07/27/16 13:10	07/27/16 13:10	EPA 300.0	T-5
Nitrite as NO2	ND mg/L	1.0	1	AG63985	07/27/16 13:10	07/27/16 13:10	EPA 300.0	T-5
Sulfate as SO4	20 mg/L	0.50	1	AG63895	07/26/16 14:42	07/26/16 14:42	EPA 300.0	
G13220 / 072116B (16G2111-02)		Sample Type: Water			Sampled: 07/22/16 09:50			
Metals (Drinking Water) by EPA 200 Series Methods								
Potassium	18 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 18:22	EPA 200.7	
Metals by EPA 200 Series Methods								
Aluminum	0.38 mg/L	0.050	1	AG64063	07/29/16 12:11	08/02/16 18:22	EPA 200.7	
Boron	0.15 mg/L	0.050	1	AG64063	07/29/16 12:11	08/02/16 18:22	EPA 200.7	
Calcium	16 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 18:22	EPA 200.7	
Iron	3.2 mg/L	0.10	1	AG64063	07/29/16 12:11	08/02/16 18:22	EPA 200.7	
Magnesium	7.9 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 18:22	EPA 200.7	
Manganese	0.055 mg/L	0.020	1	AG64063	07/29/16 12:11	08/02/16 18:22	EPA 200.7	
Sodium	45 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 18:22	EPA 200.7	
Zinc	0.14 mg/L	0.020	1	AG64063	07/29/16 12:11	08/02/16 18:22	EPA 200.7	

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Project: WQ Monitoring
Project Number: [none]

Reported:
08/09/16 16:17

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note	
G13220 / 072116B (16G2111-02)		Sample Type: Water			Sampled: 07/22/16 09:50				
Conventional Chemistry Parameters by APHA/EPA Methods									
Ammonia as NH3	60 mg/L	0.50	1	AH63376	08/08/16 08:11	08/09/16 17:00	SM4500NH3C		
Bicarbonate	330 mg/L	5.0	1	AG63963	07/29/16 08:00	07/29/16 16:20	SM2320B		
Biochemical Oxygen Demand	120 mg/L	5.0	1	AG63969	07/22/16 18:00	07/27/16 12:30	SM5210B		
pH	7.36 pH Units	1.68	1	AG63920	07/25/16 19:00	07/25/16 19:00	SM4500-H+ B	T-14	
Specific Conductance (EC)	870 umhos/cm	20	1	AG63944	07/26/16 16:00	07/26/16 17:00	SM2510B		
Total Dissolved Solids	390 mg/L	10	1	AG64010	07/28/16 12:00	08/02/16 17:02	SM2540C		
Total Suspended Solids	370 mg/L	1.0	1	AG63995	07/28/16 08:09	07/29/16 13:49	SM2540D		
Volatile Suspended Solids	340 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	270 mg/L	5.0	1	AG63963	07/29/16 08:00	07/29/16 16:20	SM2320B		
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AG63963	07/29/16 08:00	07/29/16 16:20	SM2320B		
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AG63963	07/29/16 08:00	07/29/16 16:20	SM2320B		
Total Alkalinity as CaCO3	270 mg/L	5.0	1	AG63963	07/29/16 08:00	07/29/16 16:20	SM2320B		
Total Kjeldahl Nitrogen	67 mg/L	1.0	1	AG64039	08/04/16 06:49	08/05/16 10:35	SM4500-Norg B		
Total Nitrogen	67 mg/L	1.0	1	AH63264	08/03/16 15:38	08/05/16 11:55	SM4500-N		
Hardness, Total	72 mg/L	5	1	AG64063	07/29/16 12:11	08/02/16 18:22	SM2340B		
Phosphorus, total	8.2 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	2.57 NA		1	AG64063	07/29/16 12:11	08/08/16 05:15	SAR		
Anions by EPA Method 300.0									
Chloride	53 mg/L	5.0	10	AG63895	07/26/16 14:59	07/26/16 14:59	EPA 300.0		
Nitrate as N	ND mg/L	0.20	1	AG63895	07/26/16 15:15	07/26/16 15:15	EPA 300.0	T-5	
Nitrate as NO3	ND mg/L	1.0	1	AG63895	07/26/16 15:15	07/26/16 15:15	EPA 300.0	T-5	
Nitrite as N	ND mg/L	0.20	1	AG63985	07/27/16 13:26	07/27/16 13:26	EPA 300.0	T-5	
Nitrite as NO2	ND mg/L	1.0	1	AG63985	07/27/16 13:26	07/27/16 13:26	EPA 300.0	T-5	
Sulfate as SO4	40 mg/L	0.50	1	AG63895	07/26/16 15:15	07/26/16 15:15	EPA 300.0		
G13223 / 072116C (16G2111-03)		Sample Type: Water			Sampled: 07/22/16 08:35				
Metals (Drinking Water) by EPA 200 Series Methods									
Potassium	17 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 18:27	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:
08/09/16 16:17

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13223 / 072116C (16G2111-03)								
Sample Type: Water								
Sampled: 07/22/16 08:35								
Metals by EPA 200 Series Methods								
Aluminum	0.69 mg/L	0.050	1	AG64063	07/29/16 12:11	08/02/16 18:27	EPA 200.7	
Boron	0.18 mg/L	0.050	1	AG64063	07/29/16 12:11	08/02/16 18:27	EPA 200.7	
Calcium	17 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 18:27	EPA 200.7	
Iron	1.6 mg/L	0.10	1	AG64063	07/29/16 12:11	08/02/16 18:27	EPA 200.7	
Magnesium	6.4 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 18:27	EPA 200.7	
Manganese	0.060 mg/L	0.020	1	AG64063	07/29/16 12:11	08/02/16 18:27	EPA 200.7	
Sodium	62 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 18:27	EPA 200.7	
Zinc	0.23 mg/L	0.020	1	AG64063	07/29/16 12:11	08/02/16 18:27	EPA 200.7	
Conventional Chemistry Parameters by APHA/EPA Methods								
Ammonia as NH3	53 mg/L	0.50	1	AH63376	08/08/16 08:11	08/09/16 17:00	SM4500NH3C	
Bicarbonate	280 mg/L	5.0	1	AG63963	07/29/16 08:00	07/29/16 16:20	SM2320B	
Biochemical Oxygen Demand	120 mg/L	5.0	1	AG63969	07/22/16 18:00	07/27/16 12:30	SM5210B	
pH	7.51 pH Units	1.68	1	AG63920	07/25/16 19:00	07/25/16 19:00	SM4500-H+ B	T-14
Specific Conductance (EC)	860 umhos/cm	20	1	AG63944	07/26/16 16:00	07/26/16 17:00	SM2510B	
Total Dissolved Solids	380 mg/L	10	1	AG64010	07/28/16 12:00	08/03/16 12:08	SM2540C	
Total Suspended Solids	230 mg/L	1.0	1	AG63995	07/28/16 08:09	07/29/16 13:49	SM2540D	
Volatile Suspended Solids	210 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	230 mg/L	5.0	1	AG63963	07/29/16 08:00	07/29/16 16:20	SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AG63963	07/29/16 08:00	07/29/16 16:20	SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AG63963	07/29/16 08:00	07/29/16 16:20	SM2320B	
Total Alkalinity as CaCO3	230 mg/L	5.0	1	AG63963	07/29/16 08:00	07/29/16 16:20	SM2320B	
Total Kjeldahl Nitrogen	57 mg/L	1.0	1	AG64039	08/04/16 06:49	08/05/16 10:35	SM4500-Norg B	
Total Nitrogen	57 mg/L	1.0	1	AH63264	08/03/16 15:38	08/05/16 11:55	SM4500-N	
Hardness, Total	69 mg/L	5	1	AG64063	07/29/16 12:11	08/02/16 18:27	SM2340B	
Phosphorus, total	6.4 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:
08/09/16 16:17

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13223 / 072116C (16G2111-03)		Sample Type: Water			Sampled: 07/22/16 08:35			
Miscellaneous Physical/Conventional Chemistry Parameters								
Sodium Adsorption Ratio-Adj RNA	3.54 NA		1	AG64063	07/29/16 12:11	08/08/16 05:15	SAR	
Anions by EPA Method 300.0								
Chloride	84 mg/L	5.0	10	AG63895	07/26/16 15:31	07/26/16 15:31	EPA 300.0	
Nitrate as N	ND mg/L	0.20	1	AG63895	07/26/16 15:48	07/26/16 15:48	EPA 300.0	T-5
Nitrate as NO3	ND mg/L	1.0	1	AG63895	07/26/16 15:48	07/26/16 15:48	EPA 300.0	T-5
Nitrite as N	ND mg/L	0.20	1	AG63985	07/27/16 13:43	07/27/16 13:43	EPA 300.0	T-5
Nitrite as NO2	ND mg/L	1.0	1	AG63985	07/27/16 13:43	07/27/16 13:43	EPA 300.0	T-5
Sulfate as SO4	32 mg/L	0.50	1	AG63895	07/26/16 15:48	07/26/16 15:48	EPA 300.0	



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Reported:
08/09/16 16:17

Metals (Drinking Water) 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										
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:
08/09/16 16:17

Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
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Batch 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:
08/09/16 16:17

Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
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Batch 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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West Bay Sanitary District
500 Laurel Street
Menlo Park, CA 94025

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

Reported:
08/09/16 16:17

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 AG63963 - General Preparation										
Duplicate (AG63963-DUP1)		Source: 16G2111-01		Prepared & Analyzed: 07/29/16						
Bicarbonate	262	5.0	mg/L		262			0.00	20	
Carbonate Alkalinity as CaCO ₃	ND	5.0	mg/L		ND				20	
Bicarbonate Alkalinity as CaCO ₃	215	5.0	mg/L		215			0.00	20	
Total Alkalinity as CaCO ₃	215	5.0	mg/L		215			0.00	20	
Hydroxide Alkalinity as CaCO ₃	ND	5.0	mg/L		ND				20	

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

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AG63969 - General Preparation										
Blank (AG63969-BLK1) Prepared: 07/22/16 Analyzed: 07/27/16										
Biochemical Oxygen Demand	ND	5.0	mg/L							
Blank (AG63969-BLK2) Prepared: 07/22/16 Analyzed: 07/27/16										
Biochemical Oxygen Demand	ND	5.0	mg/L							
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 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	
Batch AG64010 - General Preparation										
Blank (AG64010-BLK1) Prepared: 07/28/16 Analyzed: 08/02/16										
Total Dissolved Solids	ND	10	mg/L							



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Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AG64010 - General Preparation										
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 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-BSD1) 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-MSD1) 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	

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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 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			
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 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	

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

Reported:
08/09/16 16:17

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										
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 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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Reported:
08/09/16 16:17

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						
Chloride	ND	0.50	mg/L							
Sulfate as SO4	ND	0.50	mg/L							
Nitrate as NO3	ND	1.0	mg/L							
Nitrate as N	ND	0.20	mg/L							
LCS (AG63895-BS1)				Prepared & Analyzed: 07/26/16						
Nitrate as NO3	26	1.0	mg/L	24.7		106	90-110			
Chloride	11.7	0.50	mg/L	11.1		105	90-110			
Sulfate as SO4	23.2	0.50	mg/L	22.2		104	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			
Nitrate as N	ND	0.20	mg/L		ND				20	
Sulfate as SO4	6.74	0.50	mg/L		6.72			0.372	20	
Nitrate as NO3	ND	1.0	mg/L		ND				20	
Chloride	12.2	0.50	mg/L		12.2			0.139	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			
Chloride	24.0	2.5	mg/L	11.1	12.2	106	80-120			
Sulfate as SO4	29.5	2.5	mg/L	22.2	6.72	103	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			
Chloride	49.9	2.5	mg/L	11.1	39.2	96.6	80-120			
Nitrate as N	9.81	1.0	mg/L	5.56	3.96	105	80-120			

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

Reported:
08/09/16 16:17

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	
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	
Chloride	23.9	2.5	mg/L	11.1	12.2	105	80-120	0.556	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 NO2	17.9	1.0	mg/L	18.2		98.0	90-110			
Nitrite as N	5.43	0.20	mg/L	5.56		97.8	90-110			
Duplicate (AG63985-DUP1)		Source: 16G2229-01			Prepared & Analyzed: 07/27/16					
Nitrite as N	ND	0.20	mg/L		ND				20	
Nitrite as NO2	ND	1.0	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: 07/27/16 Analyzed: 08/01/16					
Nitrite as N	5.58	1.0	mg/L	5.56	ND	100	80-120			
Nitrite as NO2	18.3	5.0	mg/L	18.2	ND	101	80-120			

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08/09/16 16:17

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 NO2	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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West Bay Sanitary District
500 Laurel Street
Menlo Park, CA 94025

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

Reported:
08/09/16 16:17

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

WORK ORDER
Chain of Custody Record

3.9

Lab No. 1662111 Page of

Company Name: West Bay Sanitary District		Project ID: WQ Monitoring		Signature below authorizes work under terms stated on reverse side.													Sample Notes	TAT													
Mailing Address: 500 Laurel Street Menlo Park, CA 94025		Project No:		Analysis Request													5.0	24 hr <input type="radio"/>													
Project Contact & Email (Hardcopy or PDF to): John Simonetti jsimonetti@westbaysanitary.org		PO#																48 hr <input type="radio"/>													
Phone/Fax:		Site Contact: John Simonetti																Lab Approval Required													
Field Sampler - Print Name & Signature Mark Pratorlon		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, Al, Fe, Mn, Zn	Ammonia, Phosphorus	Total Nitrogen	Sulfate, Chloride, EC, NO2, NO3	Alkalinity, Bicarbonate	SAR Adjusted Calculation	Silica	TDS	TSS	VSS	Hardness Calc	Potassium	1 wk <input type="radio"/>
G13104 072116 A		7/22 0910		5					1	1			3	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
G13220 072116 B		7/22 0950		5					1	1			3	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
G13223 072116 C		7/22 0835		5					1	1			3	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Relinquished by: Mark Pratorlon		Received by: <i>[Signature]</i>		Date 7/22/10		Time 1415		CDPH Write On EDT Report? Yes <input type="radio"/> No <input type="radio"/>																							
Relinquished by: <i>[Signature]</i>		Received by: <i>[Signature]</i>		Date 7/22		Time 1720		State System Number: _____																							
Relinquished by: <i>[Signature]</i>		Received by: <i>[Signature]</i>		Date 7/28		Time 1730		CA Geotracker EDF Report Yes <input type="radio"/> No <input type="radio"/>																							
Relinquished by: <i>[Signature]</i>		Received by: <i>[Signature]</i>		Date 7/25		Time 2100		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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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: 16G2160

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 / 072216A	16G2160-01	Water	07/23/16 08:40	07/25/16 21:00
G13220 / 072216B	16G2160-02	Water	07/23/16 09:00	07/25/16 21:00
G13223 / 072216C	16G2160-03	Water	07/23/16 08:15	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 / 072216A (16G2160-01)		Sample Type: Water			Sampled: 07/23/16 08:40			
Metals (Drinking Water) by EPA 200 Series Methods								
Potassium	16 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 18:31	EPA 200.7	
Metals by EPA 200 Series Methods								
Aluminum	0.63 mg/L	0.050	1	AG64063	07/29/16 12:11	08/02/16 18:31	EPA 200.7	
Boron	0.17 mg/L	0.050	1	AG64063	07/29/16 12:11	08/02/16 18:31	EPA 200.7	
Calcium	17 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 18:31	EPA 200.7	
Iron	1.7 mg/L	0.10	1	AG64063	07/29/16 12:11	08/02/16 18:31	EPA 200.7	
Magnesium	4.3 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 18:31	EPA 200.7	
Manganese	0.077 mg/L	0.020	1	AG64063	07/29/16 12:11	08/02/16 18:31	EPA 200.7	
Sodium	41 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 18:31	EPA 200.7	
Zinc	0.26 mg/L	0.020	1	AG64063	07/29/16 12:11	08/02/16 18:31	EPA 200.7	
Conventional Chemistry Parameters by APHA/EPA Methods								
Ammonia as NH3	51 mg/L	0.50	1	AH63376	08/08/16 08:11	08/09/16 17:00	SM4500NH3C	
Bicarbonate	260 mg/L	5.0	1	AG63963	07/29/16 08:00	07/29/16 16:20	SM2320B	
Biochemical Oxygen Demand	320 mg/L	5.0	1	AH63166	07/27/16 08:00	08/01/16 11:30	SM5210B	T-16
pH	7.52 pH Units	1.68	1	AG63920	07/25/16 19:00	07/25/16 19:00	SM4500-H+ B	T-14
Specific Conductance (EC)	670 umhos/cm	20	1	AG63944	07/26/16 16:00	07/26/16 17:00	SM2510B	
Total Dissolved Solids	300 mg/L	10	1	AG64010	07/28/16 12:00	08/02/16 17:02	SM2540C	
Total Suspended Solids	360 mg/L	1.0	1	AG63995	07/28/16 08:09	07/29/16 13:49	SM2540D	
Volatile Suspended Solids	330 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	210 mg/L	5.0	1	AG63963	07/29/16 08:00	07/29/16 16:20	SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AG63963	07/29/16 08:00	07/29/16 16:20	SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AG63963	07/29/16 08:00	07/29/16 16:20	SM2320B	
Total Alkalinity as CaCO3	210 mg/L	5.0	1	AG63963	07/29/16 08:00	07/29/16 16:20	SM2320B	
Total Kjeldahl Nitrogen	55 mg/L	1.0	1	AH63327	08/08/16 07:06	08/09/16 09:44	SM4500-Norg B	
Total Nitrogen	55 mg/L	1.0	1	AH63264	08/03/16 15:38	08/09/16 10:02	SM4500-N	
Hardness, Total	60 mg/L	5	1	AG64063	07/29/16 12:11	08/02/16 18:31	SM2340B	
Phosphorus, total	6.6 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:
08/10/16 09:21

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13104 / 072216A (16G2160-01)		Sample Type: Water			Sampled: 07/23/16 08:40			
Miscellaneous Physical/Conventional Chemistry Parameters								
Sodium Adsorption Ratio-Adj RNA	2.49 NA		1	AG64063	07/29/16 12:11	08/08/16 06:00	SAR	
Anions by EPA Method 300.0								
Chloride	44 mg/L	5.0	10	AG63986	07/27/16 18:27	07/27/16 18:27	EPA 300.0	
Nitrate as N	ND mg/L	0.20	1	AG63986	07/27/16 18:27	07/27/16 18:27	EPA 300.0	T-5
Nitrate as NO3	ND mg/L	1.0	1	AG63986	07/27/16 18:27	07/27/16 18:27	EPA 300.0	T-5
Nitrite as N	ND mg/L	0.20	1	AG63986	07/27/16 18:43	07/27/16 18:43	EPA 300.0	T-5
Nitrite as NO2	ND mg/L	1.0	1	AG63986	07/27/16 18:43	07/27/16 18:43	EPA 300.0	T-5
Sulfate as SO4	27 mg/L	0.50	1	AG63986	07/27/16 18:43	07/27/16 18:43	EPA 300.0	
G13220 / 072216B (16G2160-02)		Sample Type: Water			Sampled: 07/23/16 09:00			
Metals (Drinking Water) by EPA 200 Series Methods								
Potassium	13 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 18:36	EPA 200.7	
Metals by EPA 200 Series Methods								
Aluminum	1.5 mg/L	0.050	1	AG64063	07/29/16 12:11	08/02/16 18:36	EPA 200.7	
Boron	0.20 mg/L	0.050	1	AG64063	07/29/16 12:11	08/02/16 18:36	EPA 200.7	
Calcium	24 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 18:36	EPA 200.7	
Iron	3.7 mg/L	0.10	1	AG64063	07/29/16 12:11	08/02/16 18:36	EPA 200.7	
Magnesium	10 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 18:36	EPA 200.7	
Manganese	0.070 mg/L	0.020	1	AG64063	07/29/16 12:11	08/02/16 18:36	EPA 200.7	
Sodium	40 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 18:36	EPA 200.7	
Zinc	0.35 mg/L	0.020	1	AG64063	07/29/16 12:11	08/02/16 18:36	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 / 072216B (16G2160-02)		Sample Type: Water			Sampled: 07/23/16 09:00				
Conventional Chemistry Parameters by APHA/EPA Methods									
Ammonia as NH3	60 mg/L	0.50	1	AH63376	08/08/16 08:11	08/09/16 17:00	SM4500NH3C		
Bicarbonate	290 mg/L	5.0	1	AG63963	07/29/16 08:00	07/29/16 16:20	SM2320B		
Biochemical Oxygen Demand	410 mg/L	5.0	1	AH63166	07/27/16 08:00	08/01/16 11:30	SM5210B	T-16	
pH	7.20 pH Units	1.68	1	AG63920	07/25/16 19:00	07/25/16 19:00	SM4500-H+ B	T-14	
Specific Conductance (EC)	780 umhos/cm	20	1	AG63944	07/26/16 16:00	07/26/16 17:00	SM2510B		
Total Dissolved Solids	310 mg/L	10	1	AG64010	07/28/16 12:00	08/02/16 17:02	SM2540C		
Total Suspended Solids	760 mg/L	1.0	1	AG63995	07/28/16 08:09	07/29/16 13:49	SM2540D		
Volatile Suspended Solids	710 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	AG63963	07/29/16 08:00	07/29/16 16:20	SM2320B		
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AG63963	07/29/16 08:00	07/29/16 16:20	SM2320B		
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AG63963	07/29/16 08:00	07/29/16 16:20	SM2320B		
Total Alkalinity as CaCO3	240 mg/L	5.0	1	AG63963	07/29/16 08:00	07/29/16 16:20	SM2320B		
Total Kjeldahl Nitrogen	71 mg/L	1.0	1	AH63327	08/09/16 07:06	08/09/16 09:44	SM4500-Norg B		
Total Nitrogen	71 mg/L	1.0	1	AH63264	08/03/16 15:38	08/09/16 10:02	SM4500-N		
Hardness, Total	102 mg/L	5	1	AG64063	07/29/16 12:11	08/02/16 18:36	SM2340B		
Phosphorus, total	9.9 mg/L	2.0	5	AH63124	08/01/16 07:45	08/01/16 15:02	SM4500-P E		
Miscellaneous Physical/Conventional Chemistry Parameters									
Sodium Adsorption Ratio-Adj RNA	1.95 NA		1	AG64063	07/29/16 12:11	08/08/16 06:00	SAR		
Anions by EPA Method 300.0									
Chloride	45 mg/L	5.0	10	AG63986	07/27/16 18:59	07/27/16 18:59	EPA 300.0		
Nitrate as N	ND mg/L	0.20	1	AG63986	07/27/16 18:59	07/27/16 18:59	EPA 300.0	T-5	
Nitrate as NO3	ND mg/L	1.0	1	AG63986	07/27/16 18:59	07/27/16 18:59	EPA 300.0	T-5	
Nitrite as N	ND mg/L	0.20	1	AG63986	07/27/16 19:15	07/27/16 19:15	EPA 300.0	T-5	
Nitrite as NO2	ND mg/L	1.0	1	AG63986	07/27/16 19:15	07/27/16 19:15	EPA 300.0	T-5	
Sulfate as SO4	44 mg/L	5.0	10	AG63986	07/27/16 18:59	07/27/16 18:59	EPA 300.0		
G13223 / 072216C (16G2160-03)		Sample Type: Water			Sampled: 07/23/16 08:15				
Metals (Drinking Water) by EPA 200 Series Methods									
Potassium	17 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 18:50	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 / 072216C (16G2160-03)		Sample Type: Water			Sampled: 07/23/16 08:15			
Metals by EPA 200 Series Methods								
Aluminum	0.70 mg/L	0.050	1	AG64063	07/29/16 12:11	08/02/16 18:50	EPA 200.7	
Boron	0.21 mg/L	0.050	1	AG64063	07/29/16 12:11	08/02/16 18:50	EPA 200.7	
Calcium	17 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 18:50	EPA 200.7	
Iron	1.7 mg/L	0.10	1	AG64063	07/29/16 12:11	08/02/16 18:50	EPA 200.7	
Magnesium	5.8 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 18:50	EPA 200.7	
Manganese	0.055 mg/L	0.020	1	AG64063	07/29/16 12:11	08/02/16 18:50	EPA 200.7	
Sodium	56 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 18:50	EPA 200.7	
Zinc	0.24 mg/L	0.020	1	AG64063	07/29/16 12:11	08/02/16 18:50	EPA 200.7	
Conventional Chemistry Parameters by APHA/EPA Methods								
Ammonia as NH3	51 mg/L	0.50	1	AH63376	08/08/16 08:11	08/09/16 17:00	SM4500NH3C	
Bicarbonate	280 mg/L	5.0	1	AG63963	07/29/16 08:00	07/29/16 16:20	SM2320B	
Biochemical Oxygen Demand	290 mg/L	5.0	1	AH63166	07/27/16 08:00	08/01/16 11:30	SM5210B	T-16
pH	7.26 pH Units	1.68	1	AG63920	07/25/16 19:00	07/25/16 19:00	SM4500-H+ B	T-14
Specific Conductance (EC)	820 umhos/cm	20	1	AG63944	07/26/16 16:00	07/26/16 17:00	SM2510B	
Total Dissolved Solids	420 mg/L	10	1	AG64010	07/28/16 12:00	08/02/16 17:02	SM2540C	
Total Suspended Solids	260 mg/L	1.0	1	AG63995	07/28/16 08:09	07/29/16 13:49	SM2540D	
Volatile Suspended Solids	240 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	230 mg/L	5.0	1	AG63963	07/29/16 08:00	07/29/16 16:20	SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AG63963	07/29/16 08:00	07/29/16 16:20	SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AG63963	07/29/16 08:00	07/29/16 16:20	SM2320B	
Total Alkalinity as CaCO3	230 mg/L	5.0	1	AG63963	07/29/16 08:00	07/29/16 16:20	SM2320B	
Total Kjeldahl Nitrogen	55 mg/L	1.0	1	AH63327	08/09/16 07:06	08/09/16 10:37	SM4500-Norg B	
Total Nitrogen	55 mg/L	1.0	1	AH63264	08/03/16 15:38	08/09/16 15:04	SM4500-N	
Hardness, Total	67 mg/L	5	1	AG64063	07/29/16 12:11	08/02/16 18:50	SM2340B	
Phosphorus, total	6.3 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:
08/10/16 09:21

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13223 / 072216C (16G2160-03)		Sample Type: Water			Sampled: 07/23/16 08:15			
Miscellaneous Physical/Conventional Chemistry Parameters								
Sodium Adsorption Ratio-Adj RNA	3.28 NA		1	AG64063	07/29/16 12:11	08/08/16 06:00	SAR	
Anions by EPA Method 300.0								
Chloride	69 mg/L	10	20	AG63986	07/27/16 20:04	07/27/16 20:04	EPA 300.0	
Nitrate as N	ND mg/L	0.20	1	AG63986	07/27/16 20:04	07/27/16 20:04	EPA 300.0	T-5
Nitrate as NO3	ND mg/L	1.0	1	AG63986	07/27/16 20:04	07/27/16 20:04	EPA 300.0	T-5
Nitrite as N	ND mg/L	0.20	1	AG63986	07/27/16 20:20	07/27/16 20:20	EPA 300.0	T-5
Nitrite as NO2	ND mg/L	1.0	1	AG63986	07/27/16 20:20	07/27/16 20:20	EPA 300.0	T-5
Sulfate as SO4	33 mg/L	0.50	1	AG63986	07/27/16 20:20	07/27/16 20:20	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: [none]

Reported:
08/10/16 09:21

Metals (Drinking Water) 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										
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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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 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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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
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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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Menlo Park, CA 94025

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 AG63963 - General Preparation										
Duplicate (AG63963-DUP1)		Source: 16G2111-01			Prepared & Analyzed: 07/29/16					
Bicarbonate	262	5.0	mg/L		262			0.00	20	
Bicarbonate Alkalinity as CaCO ₃	215	5.0	mg/L		215			0.00	20	
Carbonate Alkalinity as CaCO ₃	ND	5.0	mg/L		ND				20	
Total Alkalinity as CaCO ₃	215	5.0	mg/L		215			0.00	20	
Hydroxide Alkalinity as CaCO ₃	ND	5.0	mg/L		ND				20	

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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 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	
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 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	

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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 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			
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 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	

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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 AH63132 - General Preparation										
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			
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 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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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 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 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
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Batch AG63986 - General Preparation

Blank (AG63986-BLK1)

Prepared & Analyzed: 07/27/16

Chloride	ND	0.50	mg/L							
Nitrate as NO3	ND	1.0	mg/L							
Nitrite as NO2	ND	1.0	mg/L							
Nitrite as N	ND	0.20	mg/L							
Sulfate as SO4	ND	0.50	mg/L							
Nitrate as N	ND	0.20	mg/L							

LCS (AG63986-BS1)

Prepared & Analyzed: 07/27/16

Sulfate as SO4	22.2	0.50	mg/L	22.2		100	90-110			
Nitrite as NO2	18.6	1.0	mg/L	18.2		102	90-110			
Nitrate as N	5.72	0.20	mg/L	5.56		103	90-110			
Nitrite as N	5.66	0.20	mg/L	5.56		102	90-110			
Chloride	11.5	0.50	mg/L	11.1		103	90-110			
Nitrate as NO3	25	1.0	mg/L	24.7		103	90-110			

Duplicate (AG63986-DUP1)

Source: 16G2275-01

Prepared & Analyzed: 07/27/16

Nitrate as NO3	2.6	1.0	mg/L		2.7			4.17	20	
Nitrite as N	ND	0.20	mg/L		ND				20	
Nitrite as NO2	ND	1.0	mg/L		ND				20	
Chloride	ND	0.50	mg/L		ND			1.32	20	
Sulfate as SO4	ND	0.50	mg/L		ND				20	
Nitrate as N	0.594	0.20	mg/L		0.620			4.17	20	

Matrix Spike (AG63986-MS1)

Source: 16G2275-01

Prepared & Analyzed: 07/27/16

Nitrite as N	5.76	0.20	mg/L	5.56	ND	104	80-120			
Nitrate as NO3	29	1.0	mg/L	24.7	2.7	105	80-120			
Sulfate as SO4	22.6	0.50	mg/L	22.2	ND	102	80-120			
Chloride	12.0	0.50	mg/L	11.1	ND	105	80-120			
Nitrite as NO2	18.9	1.0	mg/L	18.2	ND	104	80-120			
Nitrate as N	6.45	0.20	mg/L	5.56	0.620	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: [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 AG63986 - General Preparation										
Matrix Spike (AG63986-MS2)		Source: 16G2279-01			Prepared & Analyzed: 07/28/16					
Nitrate as N	5.78	0.20	mg/L	5.56	ND	103	80-120			
Chloride	13.3	0.50	mg/L	11.1	1.68	104	80-120			
Nitrite as NO2	12.2	1.0	mg/L	18.2	ND	67.1	80-120			QM-05
Nitrate as NO3	26	1.0	mg/L	24.7	ND	103	80-120			
Nitrite as N	3.72	0.20	mg/L	5.56	ND	67.0	80-120			QM-05
Sulfate as SO4	22.9	0.50	mg/L	22.2	ND	102	80-120			
Matrix Spike Dup (AG63986-MSD1)		Source: 16G2275-01			Prepared & Analyzed: 07/27/16					
Nitrate as N	6.46	0.20	mg/L	5.56	0.620	105	80-120	0.132	20	
Nitrite as NO2	19.0	1.0	mg/L	18.2	ND	104	80-120	0.308	20	
Sulfate as SO4	22.5	0.50	mg/L	22.2	ND	101	80-120	0.335	20	
Chloride	12.0	0.50	mg/L	11.1	ND	105	80-120	0.0463	20	
Nitrite as N	5.77	0.20	mg/L	5.56	ND	104	80-120	0.308	20	
Nitrate as NO3	29	1.0	mg/L	24.7	2.7	105	80-120	0.132	20	



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500 Laurel Street
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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-16 Sample prepared outside of recommended hold time. Client notified.
- T-5 Sample prepared outside of recommended holding time per client.
- ND Analyte NOT DETECTED at or above the reporting limit
- dry Sample results reported on a dry weight basis
- REC Recovery
- RPD Relative Percent Difference

Work Order Chain of Custody Record

Lab No. 1662160 Page 3 of 9

Company Name: West Bay Sanitary District		Project ID: WQ Monitoring		Signature below authorizes work under terms stated on reverse side.																	TAT													
Mailing Address: 500 Laurel Street Menlo Park, CA 94025		Project No:		Analysis Request													Sample Notes		<input type="radio"/> 24 hr <input type="radio"/> 48 hr 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#		DU BOD DU pH 200.7 - B, Ca, Mg, Na, Al, Fe, Mn, Zn Ammonia, Phosphorus Total Nitrogen Sulfate, Chloride, EC, NO2, NO3 Alkalinity, Bicarbonate SAR Adjusted Calculation Silica TDS TSS VSS Hardness Calc													Lab Approval Required For Rush																	
Phone/Fax:		Site Contact: John Simonetti		Hardness Calc Potassium																														
Field Sampler - Print Name & Signature <i>John Simonetti</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, Al, Fe, Mn, Zn	Ammonia, Phosphorus	Total Nitrogen	Sulfate, Chloride, EC, NO2, NO3	Alkalinity, Bicarbonate	SAR Adjusted Calculation	Silica	TDS	TSS	VSS	Hardness Calc	Potassium				
G13104		7/29 0840		5						1	1		3	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
072216A																																		
G13220		7/23 0900		5						1	1		3	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
072216B																																		
G13223		7/23 0845		5						1	1		3	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
072216C																																		
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:																				

3.5



Alpha

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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: 16G2161

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 / 072316A	16G2161-01	Water	07/24/16 08:30	07/25/16 21:00
G13220 / 072316B	16G2161-02	Water	07/24/16 08:50	07/25/16 21:00
G13223 / 072316C	16G2161-03	Water	07/24/16 08:00	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 / 072316A (16G2161-01)		Sample Type: Water			Sampled: 07/24/16 08:30			
Metals (Drinking Water) by EPA 200 Series Methods								
Potassium	17 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 18:55	EPA 200.7	
Metals by EPA 200 Series Methods								
Aluminum	0.69 mg/L	0.050	1	AG64063	07/29/16 12:11	08/02/16 18:55	EPA 200.7	
Boron	0.19 mg/L	0.050	1	AG64063	07/29/16 12:11	08/02/16 18:55	EPA 200.7	
Calcium	17 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 18:55	EPA 200.7	
Iron	1.8 mg/L	0.10	1	AG64063	07/29/16 12:11	08/02/16 18:55	EPA 200.7	
Magnesium	5.4 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 18:55	EPA 200.7	
Manganese	0.067 mg/L	0.020	1	AG64063	07/29/16 12:11	08/02/16 18:55	EPA 200.7	
Sodium	47 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 18:55	EPA 200.7	
Zinc	0.24 mg/L	0.020	1	AG64063	07/29/16 12:11	08/02/16 18:55	EPA 200.7	
Conventional Chemistry Parameters by APHA/EPA Methods								
Ammonia as NH3	66 mg/L	0.50	1	AH63376	08/08/16 08:11	08/09/16 17:00	SM4500NH3C	
Bicarbonate	290 mg/L	5.0	1	AG63963	07/29/16 08:00	07/29/16 16:20	SM2320B	
Biochemical Oxygen Demand	290 mg/L	5.0	1	AH63166	07/27/16 08:00	08/01/16 11:30	SM5210B	T-16
pH	7.40 pH Units	1.68	1	AG63920	07/25/16 19:00	07/25/16 19:00	SM4500-H+ B	T-14
Specific Conductance (EC)	780 umhos/cm	20	1	AG63945	07/26/16 16:00	08/01/16 14:49	SM2510B	
Total Dissolved Solids	380 mg/L	10	1	AG64010	07/28/16 12:00	08/02/16 17:02	SM2540C	
Total Suspended Solids	190 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	240 mg/L	5.0	1	AG63963	07/29/16 08:00	07/29/16 16:20	SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AG63963	07/29/16 08:00	07/29/16 16:20	SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AG63963	07/29/16 08:00	07/29/16 16:20	SM2320B	
Total Alkalinity as CaCO3	240 mg/L	5.0	1	AG63963	07/29/16 08:00	07/29/16 16:20	SM2320B	
Total Kjeldahl Nitrogen	55 mg/L	1.0	1	AH63327	08/09/16 07:06	08/09/16 10:37	SM4500-Norg B	
Total Nitrogen	55 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	AG64063	07/29/16 12:11	08/02/16 18:55	SM2340B	
Phosphorus, total	9.6 mg/L	2.0	5	AH63175	08/02/16 07:45	08/02/16 12:22	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 / 072316A (16G2161-01)		Sample Type: Water			Sampled: 07/24/16 08:30			
Miscellaneous Physical/Conventional Chemistry Parameters								
Sodium Adsorption Ratio-Adj RNA	2.85 NA		1	AG64063	07/29/16 12:11	08/08/16 06:03	SAR	
Anions by EPA Method 300.0								
Chloride	58 mg/L	5.0	10	AG63895	07/26/16 17:58	07/26/16 17:58	EPA 300.0	
Nitrate as N	ND mg/L	0.20	1	AG63895	07/26/16 18:15	07/26/16 18:15	EPA 300.0	T-5
Nitrate as NO3	ND mg/L	1.0	1	AG63895	07/26/16 18:15	07/26/16 18:15	EPA 300.0	T-5
Nitrite as N	ND mg/L	0.20	1	AG63985	07/27/16 13:59	07/27/16 13:59	EPA 300.0	T-5
Nitrite as NO2	ND mg/L	1.0	1	AG63985	07/27/16 13:59	07/27/16 13:59	EPA 300.0	T-5
Sulfate as SO4	29 mg/L	0.50	1	AG63895	07/26/16 18:15	07/26/16 18:15	EPA 300.0	
G13220 / 072316B (16G2161-02)		Sample Type: Water			Sampled: 07/24/16 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 18:59	EPA 200.7	
Metals by EPA 200 Series Methods								
Aluminum	0.49 mg/L	0.050	1	AG64063	07/29/16 12:11	08/02/16 18:59	EPA 200.7	
Boron	0.20 mg/L	0.050	1	AG64063	07/29/16 12:11	08/02/16 18:59	EPA 200.7	
Calcium	16 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 18:59	EPA 200.7	
Iron	1.3 mg/L	0.10	1	AG64063	07/29/16 12:11	08/02/16 18:59	EPA 200.7	
Magnesium	4.6 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 18:59	EPA 200.7	
Manganese	0.072 mg/L	0.020	1	AG64063	07/29/16 12:11	08/02/16 18:59	EPA 200.7	
Sodium	41 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 18:59	EPA 200.7	
Zinc	0.18 mg/L	0.020	1	AG64063	07/29/16 12:11	08/02/16 18:59	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	
G13220 / 072316B (16G2161-02)		Sample Type: Water			Sampled: 07/24/16 08:50				
Conventional Chemistry Parameters by APHA/EPA Methods									
Ammonia as NH3	60 mg/L	0.50	1	AH63376	08/08/16 08:11	08/09/16 17:00	SM4500NH3C		
Bicarbonate	260 mg/L	5.0	1	AG63963	07/29/16 08:00	07/29/16 16:20	SM2320B		
Biochemical Oxygen Demand	280 mg/L	5.0	1	AH63166	07/27/16 08:00	08/01/16 11:30	SM5210B	T-16	
pH	7.33 pH Units	1.68	1	AG63920	07/25/16 19:00	07/25/16 19:00	SM4500-H+ B	T-14	
Specific Conductance (EC)	710 umhos/cm	20	1	AG63945	07/26/16 16:00	08/01/16 14:49	SM2510B		
Total Dissolved Solids	360 mg/L	10	1	AG64010	07/28/16 12:00	08/02/16 17:02	SM2540C		
Total Suspended Solids	200 mg/L	1.0	1	AG63995	07/28/16 08:09	07/29/16 13:49	SM2540D		
Volatile Suspended Solids	190 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	AG63963	07/29/16 08:00	07/29/16 16:20	SM2320B		
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AG63963	07/29/16 08:00	07/29/16 16:20	SM2320B		
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AG63963	07/29/16 08:00	07/29/16 16:20	SM2320B		
Total Alkalinity as CaCO3	220 mg/L	5.0	1	AG63963	07/29/16 08:00	07/29/16 16:20	SM2320B		
Total Kjeldahl Nitrogen	64 mg/L	1.0	1	AH63327	08/09/16 07:06	08/09/16 10:37	SM4500-Norg B		
Total Nitrogen	64 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	AG64063	07/29/16 12:11	08/02/16 18:59	SM2340B		
Phosphorus, total	7.4 mg/L	2.0	5	AH63175	08/02/16 07:45	08/02/16 12:22	SM4500-P E		
Miscellaneous Physical/Conventional Chemistry Parameters									
Sodium Adsorption Ratio-Adj RNA	2.55 NA		1	AG64063	07/29/16 12:11	08/08/16 06:03	SAR		
Anions by EPA Method 300.0									
Chloride	46 mg/L	5.0	10	AG63895	07/26/16 18:31	07/26/16 18:31	EPA 300.0		
Nitrate as N	ND mg/L	0.20	1	AG63895	07/26/16 18:47	07/26/16 18:47	EPA 300.0	T-5	
Nitrate as NO3	ND mg/L	1.0	1	AG63895	07/26/16 18:47	07/26/16 18:47	EPA 300.0	T-5	
Nitrite as N	ND mg/L	0.20	1	AG63985	07/27/16 14:15	07/27/16 14:15	EPA 300.0	T-5	
Nitrite as NO2	ND mg/L	1.0	1	AG63985	07/27/16 14:15	07/27/16 14:15	EPA 300.0	T-5	
Sulfate as SO4	26 mg/L	0.50	1	AG63895	07/26/16 18:47	07/26/16 18:47	EPA 300.0		
G13223 / 072316C (16G2161-03)		Sample Type: Water			Sampled: 07/24/16 08:00				
Metals (Drinking Water) by EPA 200 Series Methods									
Potassium	15 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 19:04	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 / 072316C (16G2161-03)		Sample Type: Water			Sampled: 07/24/16 08:00			
Metals by EPA 200 Series Methods								
Aluminum	0.44 mg/L	0.050	1	AG64063	07/29/16 12:11	08/02/16 19:04	EPA 200.7	
Boron	0.15 mg/L	0.050	1	AG64063	07/29/16 12:11	08/02/16 19:04	EPA 200.7	
Calcium	17 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 19:04	EPA 200.7	
Iron	1.3 mg/L	0.10	1	AG64063	07/29/16 12:11	08/02/16 19:04	EPA 200.7	
Magnesium	9.5 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 19:04	EPA 200.7	
Manganese	0.040 mg/L	0.020	1	AG64063	07/29/16 12:11	08/02/16 19:04	EPA 200.7	
Sodium	50 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 19:04	EPA 200.7	
Zinc	0.17 mg/L	0.020	1	AG64063	07/29/16 12:11	08/02/16 19:04	EPA 200.7	
Conventional Chemistry Parameters by APHA/EPA Methods								
Ammonia as NH3	58 mg/L	0.50	1	AH63376	08/08/16 08:11	08/09/16 17:00	SM4500NH3C	
Bicarbonate	250 mg/L	5.0	1	AG63963	07/29/16 08:00	07/29/16 16:20	SM2320B	
Biochemical Oxygen Demand	220 mg/L	5.0	1	AH63166	07/27/16 08:00	08/01/16 11:30	SM5210B	T-16
pH	7.29 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	AG63945	07/26/16 16:00	08/01/16 14:49	SM2510B	
Total Dissolved Solids	390 mg/L	10	1	AG64010	07/28/16 12:00	08/02/16 17:02	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	AH63132	08/01/16 09:30	08/01/16 12:00	SM4500-SiO2 C	
Bicarbonate Alkalinity as CaCO3	200 mg/L	5.0	1	AG63963	07/29/16 08:00	07/29/16 16:20	SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AG63963	07/29/16 08:00	07/29/16 16:20	SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AG63963	07/29/16 08:00	07/29/16 16:20	SM2320B	
Total Alkalinity as CaCO3	200 mg/L	5.0	1	AG63963	07/29/16 08:00	07/29/16 16:20	SM2320B	
Total Kjeldahl Nitrogen	64 mg/L	1.0	1	AH63327	08/09/16 07:06	08/09/16 10:37	SM4500-Norg B	
Total Nitrogen	64 mg/L	1.0	1	AH63264	08/03/16 15:38	08/09/16 15:02	SM4500-N	
Hardness, Total	81 mg/L	5	1	AG64063	07/29/16 12:11	08/02/16 19:04	SM2340B	
Phosphorus, total	7.3 mg/L	2.0	5	AH63175	08/02/16 07:45	08/02/16 12:22	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
G13223 / 072316C (16G2161-03)		Sample Type: Water			Sampled: 07/24/16 08:00			
Miscellaneous Physical/Conventional Chemistry Parameters								
Sodium Adsorption Ratio-Adj RNA	2.57 NA		1	AG64063	07/29/16 12:11	08/08/16 06:03	SAR	
Anions by EPA Method 300.0								
Chloride	51 mg/L	2.5	5	AH63437	08/09/16 11:20	08/09/16 11:20	EPA 300.0	
Nitrate as N	ND mg/L	0.20	1	AG63985	07/27/16 14:32	07/27/16 14:32	EPA 300.0	T-5
Nitrate as NO3	ND mg/L	1.0	1	AG63985	07/27/16 14:32	07/27/16 14:32	EPA 300.0	T-5
Nitrite as N	ND mg/L	0.20	1	AG63985	07/27/16 14:32	07/27/16 14:32	EPA 300.0	T-5
Nitrite as NO2	ND mg/L	1.0	1	AG63985	07/27/16 14:32	07/27/16 14:32	EPA 300.0	T-5
Sulfate as SO4	47 mg/L	0.50	1	AG63895	07/27/16 14:32	07/27/16 14:32	EPA 300.0	



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

Reported:
08/10/16 09:21

Metals (Drinking Water) 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										
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:
08/10/16 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 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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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
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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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Menlo Park, CA 94025

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 AG63945 - General Preparation										
Duplicate (AG63945-DUP1)		Source: 16G2245-01		Prepared & Analyzed: 07/26/16						
Specific Conductance (EC)	213	20	umhos/cm		213			0.00	5	
Batch AG63963 - General Preparation										
Duplicate (AG63963-DUP1)		Source: 16G2111-01		Prepared & Analyzed: 07/29/16						
Bicarbonate	262	5.0	mg/L		262			0.00	20	
Bicarbonate Alkalinity as CaCO ₃	215	5.0	mg/L		215			0.00	20	
Total Alkalinity as CaCO ₃	215	5.0	mg/L		215			0.00	20	
Hydroxide Alkalinity as CaCO ₃	ND	5.0	mg/L		ND				20	
Carbonate Alkalinity as CaCO ₃	ND	5.0	mg/L		ND				20	

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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 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	
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	

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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 AG64044 - General Preparation										
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 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 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			

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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 AH63132 - General Preparation										
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			
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 AH63175 - General Prep										
Blank (AH63175-BLK1) Prepared & Analyzed: 08/02/16										
Phosphorus, total	ND	0.040	mg/L							
LCS (AH63175-BS1) Prepared & Analyzed: 08/02/16										
Phosphorus, total	0.196	0.040	mg/L	0.200		98.1	85-115			
Duplicate (AH63175-DUP1) Source: 16G2112-01 Prepared & Analyzed: 08/02/16										
Phosphorus, total	0.133	0.040	mg/L		0.135			1.97	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 AH63175 - General Prep										
Matrix Spike (AH63175-MS1) Source: 16G2112-01 Prepared & Analyzed: 08/02/16										
Phosphorus, total	0.311	0.040	mg/L	0.200	0.135	88.0	70-130			
Matrix Spike Dup (AH63175-MSD1) Source: 16G2112-01 Prepared & Analyzed: 08/02/16										
Phosphorus, total	0.309	0.040	mg/L	0.200	0.135	86.6	70-130	0.852	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	
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			

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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

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 AH63376 - General Preparation										
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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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

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 NO3	ND	1.0	mg/L							
Nitrate as N	ND	0.20	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 N	5.89	0.20	mg/L	5.56		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 NO3	26	1.0	mg/L	24.7		106	90-110			
Duplicate (AG63895-DUP1)				Source: 16G2229-01			Prepared & Analyzed: 07/27/16			
Chloride	12.2	0.50	mg/L		12.2			0.139	20	
Nitrate as N	ND	0.20	mg/L		ND				20	
Sulfate as SO4	6.74	0.50	mg/L		6.72			0.372	20	
Nitrate as NO3	ND	1.0	mg/L		ND				20	
Matrix Spike (AG63895-MS1)				Source: 16G2229-01			Prepared & Analyzed: 07/27/16			
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 NO3	26	5.0	mg/L	24.7	ND	105	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			
Nitrate as NO3	43	5.0	mg/L	24.7	18	105	80-120			
Sulfate as SO4	48.6	2.5	mg/L	22.2	25.4	104	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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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

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 N	5.77	1.0	mg/L	5.56	ND	104	80-120	0.909	20	
Nitrate as NO3	26	5.0	mg/L	24.7	ND	104	80-120	0.909	20	
Sulfate as SO4	29.5	2.5	mg/L	22.2	6.72	102	80-120	0.151	20	
Chloride	23.9	2.5	mg/L	11.1	12.2	105	80-120	0.556	20	
Batch AG63985 - General Preparation										
Blank (AG63985-BLK1)					Prepared & Analyzed: 07/27/16					
Nitrate as NO3	ND	1.0	mg/L							
Nitrite as N	ND	0.20	mg/L							
Nitrite as NO2	ND	1.0	mg/L							
Nitrate as N	ND	0.20	mg/L							
LCS (AG63985-BS1)					Prepared & Analyzed: 07/27/16					
Nitrate as NO3	26	1.0	mg/L	24.7		106	90-110			
Nitrite as NO2	17.9	1.0	mg/L	18.2		98.0	90-110			
Nitrate as N	5.90	0.20	mg/L	5.56		106	90-110			
Nitrite as N	5.43	0.20	mg/L	5.56		97.8	90-110			
Duplicate (AG63985-DUP1)		Source: 16G2229-01			Prepared & Analyzed: 07/27/16					
Nitrite as N	ND	0.20	mg/L		ND				20	
Nitrite as NO2	ND	1.0	mg/L		ND				20	
Nitrate as NO3	ND	1.0	mg/L		ND				20	
Nitrate as N	ND	0.20	mg/L		ND				20	
Matrix Spike (AG63985-MS1)		Source: 16G2229-01			Prepared & Analyzed: 07/27/16					
Nitrate as NO3	24	10	mg/L	24.7	ND	95.8	80-120			
Nitrite as NO2	14.0	10	mg/L	18.2	ND	76.7	80-120			QM-05
Nitrate as N	5.33	2.0	mg/L	5.56	ND	96.0	80-120			
Nitrite as N	4.26	2.0	mg/L	5.56	ND	76.6	80-120			QM-05

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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 AG63985 - General Preparation										
Matrix Spike (AG63985-MS2)		Source: 16G2375-01			Prepared & Analyzed: 08/01/16					
Nitrate as NO3	52	5.0	mg/L	24.7	27	100	80-120			
Nitrite as N	5.58	1.0	mg/L	5.56	ND	100	80-120			
Nitrate as N	11.8	1.0	mg/L	5.56	6.17	101	80-120			
Nitrite as NO2	18.3	5.0	mg/L	18.2	ND	101	80-120			
Matrix Spike Dup (AG63985-MSD1)		Source: 16G2229-01			Prepared & Analyzed: 07/27/16					
Nitrate as N	5.21	2.0	mg/L	5.56	ND	93.8	80-120	2.28	20	
Nitrite as NO2	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
Nitrate as NO3	23	10	mg/L	24.7	ND	93.6	80-120	2.28	20	
Batch AH63437 - General Preparation										
LCS (AH63437-BS1)					Prepared & Analyzed: 08/09/16					
Chloride	10.7	0.50	mg/L	10.0		107	90-110			
Duplicate (AH63437-DUP1)		Source: 16H0780-01			Prepared & Analyzed: 08/09/16					
Chloride	39.7	2.5	mg/L		41.5			4.28	20	
Matrix Spike (AH63437-MS1)		Source: 16H0780-01			Prepared & Analyzed: 08/09/16					
Chloride	51.2	2.5	mg/L	11.1	41.5	87.4	80-120			
Matrix Spike Dup (AH63437-MSD1)		Source: 16H0780-01			Prepared & Analyzed: 08/09/16					
Chloride	51.1	2.5	mg/L	11.1	41.5	86.6	80-120	0.174	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

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-16 Sample prepared outside of recommended hold time. Client notified.
- T-5 Sample prepared outside of recommended holding time per client.
- ND Analyte NOT DETECTED at or above the reporting limit
- dry Sample results reported on a dry weight basis
- REC Recovery
- RPD Relative Percent Difference

Sample IDs should be "072316"
Per Robbie. *RB* 7-26-16

Lab No. 1662161 Page 39 of 35

Company/Name: West Bay Sanitary District		Project ID: WQ Monitoring		Signature below authorizes work under terms stated on reverse side.														TAT												
Mailing Address: 500 Laurel Street Menlo Park, CA 94025		Project No:		Analysis Request														Sample Notes	24 hr <input type="radio"/>											
Project Contact & Email (Hardcopy or PDF to): John Simonetti jsimonetti@westbaysanitary.org		PO#		200.7 - B, Ca, Mg, Na, Al, Fe, Mn, Zn Ammonia, Phosphorus Total Nitrogen Sulfate, Chloride, EC, NO2, NO3 Alkalinity, Bicarbonate SAR Adjusted Calculation Silica TDS TSS VSS Hardness Calc <i>R OW 200-7</i>														48 hr <input type="radio"/>												
Phone/Fax:		Site Contact: <i>John Simonetti</i>																Lab Approval Required For Rush												
Field Sampler - Print Name & Signature: <i>John Simonetti</i>		Sample Collection		Container	Preservative				Matrix				DU BOD	DU pH	200.7 - B, Ca, Mg, Na, Al, Fe, Mn, Zn	Ammonia, Phosphorus	Total Nitrogen	Sulfate, Chloride, EC, NO2, NO3	Alkalinity, Bicarbonate	SAR Adjusted Calculation	Silica	TDS	TSS	VSS	Hardness Calc	1 wk <input type="radio"/>				
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, Al, Fe, Mn, Zn	Ammonia, Phosphorus	Total Nitrogen	Sulfate, Chloride, EC, NO2, NO3	Alkalinity, Bicarbonate	SAR Adjusted Calculation	Silica	TDS	TSS	VSS	Hardness Calc	2 wk (standard) <input type="radio"/>
G13104 072316A		7/24/16 0830		5						1	1		3	x			x	x	x	x	x	x	x	x	x	x	x	x	x	x
G13220 072416 B		7/24/16 0850		5						1	1		3	x			x	x	x	x	x	x	x	x	x	x	x	x	x	x
G13223 072416 C 3		7/26/16 0800		5						1	1		3	x			x	x	x	x	x	x	x	x	x	x	x	x	x	x
Relinquished by: <i>[Signature]</i>		Received by: <i>[Signature]</i>		Date Time 7/25/16 1300		CDPH Write On EDT Report? Yes <input type="radio"/> No <input type="radio"/>																								
Relinquished by: <i>[Signature]</i>		Received by: <i>RS</i>		Date Time 7/25/16 1545		State System Number: _____																								
Relinquished by: <i>RS</i>		Received by: <i>[Signature]</i>		Date Time 7/25/16 1730		CA Geotracker EDF Report Yes <input type="radio"/> No <input type="radio"/>																								
Relinquished by: <i>[Signature]</i>		Received by: <i>[Signature]</i>		Date Time 7/25/16 2100		Sampling Company Log Code: _____																								
Relinquished by: <i>[Signature]</i>		Received by: <i>[Signature]</i>		Date Time 7/25/16 2100		Global ID: _____ EDF to (Email Address): _____																								
Relinquished by: <i>[Signature]</i>		Received by: <i>[Signature]</i>		Date Time 7/25/16 2100		Travel and Site Time: _____ Mileage: _____ Misc. Supplies: _____																								



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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)		Sample Type: Water			Sampled: 07/25/16 09:10			
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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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	
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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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			
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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Project Number: [none]

Reported:
08/10/16 09:21

Metals (Drinking Water) 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						
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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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
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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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500 Laurel Street
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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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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

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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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 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 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	%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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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 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 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										
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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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

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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Menlo Park, CA 94025

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
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Batch AG63985 - General Preparation

Matrix Spike Dup (AG63985-MSD1)

Source: 16G2229-01

Prepared & Analyzed: 07/27/16

Nitrite as NO2	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
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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

3.5^c

Company/Name: West Bay Sanitary District		Project ID: WQ Monitoring		Signature below authorizes work under terms stated on reverse side.															TAT																
Mailing Address: 500 Laurel Street Menlo Park, CA 94025		Project No:		Analysis Request															Sample Notes	<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) <input type="radio"/> Lab Approval Required For Rush															
Project Contact & Email (Hardcopy or PDF to): John Simonetti jsimonetti@westbaysanitary.org		PO#		DU BOD DU pH 200.7 - B, Ca, Mg, Na, Al, Fe, Mn, Zn Ammonia, Phosphorus Total Nitrogen Sulfate, Chloride, EC, NO2, NO3 Alkalinity, Bicarbonate SAR Adjusted Calculation Silica TDS TSS VSS Hardness Calc <i>K DU 200-7</i>																															
Phone/Fax:		Site Contact: John Simonetti																																	
Field Sampler - Print Name & Signature <i>Sebastian</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, Al, Fe, Mn, Zn	Ammonia, Phosphorus	Total Nitrogen	Sulfate, Chloride, EC, NO2, NO3	Alkalinity, Bicarbonate	SAR Adjusted Calculation	Silica	TDS	TSS	VSS	Hardness Calc						
G13104		7/25 0910		5						1	1			3	X		X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		
072416A																																			
G13220		7/25 0950		5						1	1			3	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
072416B																																			
G13223		7/25 0840		5						1	1			3	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
072416C																																			
Relinquished by:		Received by:		Date		Time		CDPH Write On EDT Report? Yes <input type="radio"/> No <input type="radio"/>																											
<i>[Signature]</i>		<i>[Signature]</i>		7/25/16		1300		State System Number: _____																											
Relinquished by:		Received by:		Date		Time		CA Geotracker EDF Report Yes <input type="radio"/> No <input type="radio"/>																											
<i>hs</i>		<i>[Signature]</i>		7/25		1700		Sampling Company Log Code: _____																											
Relinquished by:		Received by:		Date		Time		Global ID: _____ EDF to (Email Address): _____																											
<i>[Signature]</i>		<i>[Signature]</i>		7/25		2100		Travel and Site Time:			Mileage:			Misc. Supplies:																					



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ELAP Certificates 1551, 2728, and 2922

11 August 2016

West Bay Sanitary District

Attn: John Simonetti

500 Laurel Street

Menlo Park, CA 94025

RE: WQ Monitoring

Work Order: 16G2288

Enclosed are the results of analyses for samples received by the laboratory on 07/26/16 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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500 Laurel Street
Menlo Park, CA 94025

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

Reported:
08/11/16 10:49

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
G13104 / 072516A	16G2288-01	Water	07/26/16 08:55	07/26/16 21:00
G13220 / 072516B	16G2288-02	Water	07/26/16 09:20	07/26/16 21:00
G13223 / 072516C	16G2288-03	Water	07/26/16 08:20	07/26/16 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:
08/11/16 10:49

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13104 / 072516A (16G2288-01)		Sample Type: Water			Sampled: 07/26/16 08:55			
Metals (Drinking Water) by EPA 200 Series Methods								
Potassium	16 mg/L	1.0	1	AH63297	08/04/16 11:47	08/08/16 17:38	EPA 200.7	
Metals by EPA 200 Series Methods								
Aluminum	0.55 mg/L	0.050	1	AH63297	08/04/16 11:47	08/08/16 17:38	EPA 200.7	
Boron	0.27 mg/L	0.050	1	AH63297	08/04/16 11:47	08/08/16 17:38	EPA 200.7	
Calcium	23 mg/L	1.0	1	AH63297	08/04/16 11:47	08/08/16 17:38	EPA 200.7	
Iron	1.3 mg/L	0.10	1	AH63297	08/04/16 11:47	08/08/16 17:38	EPA 200.7	
Magnesium	5.1 mg/L	1.0	1	AH63297	08/04/16 11:47	08/08/16 17:38	EPA 200.7	
Manganese	0.064 mg/L	0.020	1	AH63297	08/04/16 11:47	08/08/16 17:38	EPA 200.7	
Sodium	79 mg/L	1.0	1	AH63297	08/04/16 11:47	08/08/16 17:38	EPA 200.7	
Zinc	0.19 mg/L	0.020	1	AH63297	08/04/16 11:47	08/08/16 17:38	EPA 200.7	
Conventional Chemistry Parameters by APHA/EPA Methods								
Ammonia as NH3	45 mg/L	0.50	1	AH63470	08/10/16 08:12	08/10/16 16:00	SM4500NH3C	
Bicarbonate	260 mg/L	5.0	1	AG64054	08/02/16 08:00	08/02/16 17:00	SM2320B	
Biochemical Oxygen Demand	200 mg/L	5.0	1	AH63166	07/27/16 14:00	08/01/16 11:30	SM5210B	
pH	7.41 pH Units	1.68	1	AG64019	07/27/16 18:40	07/27/16 18:40	SM4500-H+ B	T-14
Specific Conductance (EC)	930 umhos/cm	20	1	AG64013	07/27/16 16:00	07/27/16 17:00	SM2510B	
Total Dissolved Solids	410 mg/L	10	1	AG64011	08/01/16 10:00	08/04/16 09:51	SM2540C	
Total Suspended Solids	190 mg/L	1.0	1	AH63129	08/01/16 08:57	08/04/16 17:29	SM2540D	
Volatile Suspended Solids	170 mg/L	1.0	1	AH63169	08/01/16 15:18	08/05/16 17:16	EPA 160.4	
Silica	17 mg/L	5.0	5	AH63132	08/01/16 09:30	08/01/16 12:00	SM4500-SiO2 C	
Bicarbonate Alkalinity as CaCO3	210 mg/L	5.0	1	AG64054	08/02/16 08:00	08/02/16 17:00	SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AG64054	08/02/16 08:00	08/02/16 17:00	SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AG64054	08/02/16 08:00	08/02/16 17:00	SM2320B	
Total Alkalinity as CaCO3	210 mg/L	5.0	1	AG64054	08/02/16 08:00	08/02/16 17:00	SM2320B	
Total Kjeldahl Nitrogen	50 mg/L	1.0	1	AH63327	08/09/16 07:06	08/09/16 13:14	SM4500-Norg B	
Total Nitrogen	50 mg/L	1.0	1	AH63264	08/03/16 15:38	08/09/16 15:11	SM4500-N	
Hardness, Total	78 mg/L	5	1	AH63297	08/04/16 11:47	08/08/16 17:38	SM2340B	
Phosphorus, total	5.7 mg/L	2.0	5	AH63270	08/04/16 08:20	08/04/16 12:33	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:
08/11/16 10:49

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13104 / 072516A (16G2288-01)		Sample Type: Water			Sampled: 07/26/16 08:55			
Miscellaneous Physical/Conventional Chemistry Parameters								
Sodium Adsorption Ratio-Adj RNA	4.35 NA		1	AH63297	08/04/16 11:47	08/10/16 06:37	SAR	
Anions by EPA Method 300.0								
Chloride	110 mg/L	10	20	AG63986	07/27/16 20:52	07/27/16 20:52	EPA 300.0	
Nitrate as N	ND mg/L	0.20	1	AG63986	07/27/16 20:52	07/27/16 20:52	EPA 300.0	
Nitrate as NO3	ND mg/L	1.0	1	AG63986	07/27/16 20:52	07/27/16 20:52	EPA 300.0	
Nitrite as N	ND mg/L	0.20	1	AG63986	07/27/16 20:52	07/27/16 20:52	EPA 300.0	
Nitrite as NO2	ND mg/L	1.0	1	AG63986	07/27/16 20:52	07/27/16 20:52	EPA 300.0	
Sulfate as SO4	29 mg/L	0.50	1	AG63986	07/27/16 20:52	07/27/16 20:52	EPA 300.0	
G13220 / 072516B (16G2288-02)		Sample Type: Water			Sampled: 07/26/16 09:20			
Metals (Drinking Water) by EPA 200 Series Methods								
Potassium	19 mg/L	1.0	1	AH63297	08/04/16 11:47	08/08/16 17:43	EPA 200.7	
Metals by EPA 200 Series Methods								
Aluminum	0.64 mg/L	0.050	1	AH63297	08/04/16 11:47	08/08/16 17:43	EPA 200.7	
Boron	0.15 mg/L	0.050	1	AH63297	08/04/16 11:47	08/08/16 17:43	EPA 200.7	
Calcium	19 mg/L	1.0	1	AH63297	08/04/16 11:47	08/08/16 17:43	EPA 200.7	
Iron	1.6 mg/L	0.10	1	AH63297	08/04/16 11:47	08/08/16 17:43	EPA 200.7	
Magnesium	13 mg/L	1.0	1	AH63297	08/04/16 11:47	08/08/16 17:43	EPA 200.7	
Manganese	0.047 mg/L	0.020	1	AH63297	08/04/16 11:47	08/08/16 17:43	EPA 200.7	
Sodium	47 mg/L	1.0	1	AH63297	08/04/16 11:47	08/08/16 17:43	EPA 200.7	
Zinc	0.19 mg/L	0.020	1	AH63297	08/04/16 11:47	08/08/16 17:43	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:
08/11/16 10:49

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note	
G13220 / 072516B (16G2288-02)		Sample Type: Water			Sampled: 07/26/16 09:20				
Conventional Chemistry Parameters by APHA/EPA Methods									
Ammonia as NH3	47 mg/L	0.50	1	AH63470	08/10/16 08:12	08/10/16 16:00	SM4500NH3C		
Bicarbonate	290 mg/L	5.0	1	AG64054	08/02/16 08:00	08/02/16 17:00	SM2320B		
Biochemical Oxygen Demand	330 mg/L	5.0	1	AH63166	07/27/16 14:00	08/01/16 11:30	SM5210B		
pH	7.43 pH Units	1.68	1	AG64019	07/27/16 18:40	07/27/16 18:40	SM4500-H+ B	T-14	
Specific Conductance (EC)	920 umhos/cm	20	1	AG64013	07/27/16 16:00	07/27/16 17:00	SM2510B		
Total Dissolved Solids	340 mg/L	10	1	AG64011	08/01/16 10:00	08/04/16 09:51	SM2540C		
Total Suspended Solids	770 mg/L	1.0	1	AH63129	08/01/16 08:57	08/04/16 17:29	SM2540D		
Volatile Suspended Solids	670 mg/L	1.0	1	AH63169	08/01/16 15:18	08/05/16 17:16	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	AG64054	08/02/16 08:00	08/02/16 17:00	SM2320B		
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AG64054	08/02/16 08:00	08/02/16 17:00	SM2320B		
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AG64054	08/02/16 08:00	08/02/16 17:00	SM2320B		
Total Alkalinity as CaCO3	240 mg/L	5.0	1	AG64054	08/02/16 08:00	08/02/16 17:00	SM2320B		
Total Kjeldahl Nitrogen	39 mg/L	1.0	1	AH63327	08/09/16 07:06	08/09/16 13:14	SM4500-Norg B		
Total Nitrogen	39 mg/L	1.0	1	AH63264	08/03/16 15:38	08/09/16 15:11	SM4500-N		
Hardness, Total	102 mg/L	5	1	AH63297	08/04/16 11:47	08/08/16 17:43	SM2340B		
Phosphorus, total	6.0 mg/L	2.0	5	AH63270	08/04/16 08:20	08/04/16 12:33	SM4500-P E		
Miscellaneous Physical/Conventional Chemistry Parameters									
Sodium Adsorption Ratio-Adj RNA	2.19 NA		1	AH63297	08/04/16 11:47	08/10/16 06:37	SAR		
Anions by EPA Method 300.0									
Chloride	60 mg/L	10	20	AG63986	07/27/16 21:08	07/27/16 21:08	EPA 300.0		
Nitrate as N	ND mg/L	0.20	1	AG63986	07/27/16 21:24	07/27/16 21:24	EPA 300.0		
Nitrate as NO3	ND mg/L	1.0	1	AG63986	07/27/16 21:24	07/27/16 21:24	EPA 300.0		
Nitrite as N	ND mg/L	0.20	1	AG63986	07/27/16 21:24	07/27/16 21:24	EPA 300.0		
Nitrite as NO2	ND mg/L	1.0	1	AG63986	07/27/16 21:24	07/27/16 21:24	EPA 300.0		
Sulfate as SO4	48 mg/L	10	20	AG63986	07/27/16 21:08	07/27/16 21:08	EPA 300.0		
G13223 / 072516C (16G2288-03)		Sample Type: Water			Sampled: 07/26/16 08:20				
Metals (Drinking Water) by EPA 200 Series Methods									
Potassium	17 mg/L	1.0	1	AH63297	08/04/16 11:47	08/08/16 17:47	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:
08/11/16 10:49

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13223 / 072516C (16G2288-03)		Sample Type: Water			Sampled: 07/26/16 08:20			
Metals by EPA 200 Series Methods								
Aluminum	0.46 mg/L	0.050	1	AH63297	08/04/16 11:47	08/08/16 17:47	EPA 200.7	
Boron	0.21 mg/L	0.050	1	AH63297	08/04/16 11:47	08/08/16 17:47	EPA 200.7	
Calcium	17 mg/L	1.0	1	AH63297	08/04/16 11:47	08/08/16 17:47	EPA 200.7	
Iron	1.1 mg/L	0.10	1	AH63297	08/04/16 11:47	08/08/16 17:47	EPA 200.7	
Magnesium	8.4 mg/L	1.0	1	AH63297	08/04/16 11:47	08/08/16 17:47	EPA 200.7	
Manganese	0.045 mg/L	0.020	1	AH63297	08/04/16 11:47	08/08/16 17:47	EPA 200.7	
Sodium	58 mg/L	1.0	1	AH63297	08/04/16 11:47	08/08/16 17:47	EPA 200.7	
Zinc	0.18 mg/L	0.020	1	AH63297	08/04/16 11:47	08/08/16 17:47	EPA 200.7	
Conventional Chemistry Parameters by APHA/EPA Methods								
Ammonia as NH3	52 mg/L	0.50	1	AH63470	08/10/16 08:12	08/10/16 16:00	SM4500NH3C	
Bicarbonate	260 mg/L	5.0	1	AG64054	08/02/16 08:00	08/02/16 17:00	SM2320B	
Biochemical Oxygen Demand	240 mg/L	5.0	1	AH63166	07/27/16 14:00	08/01/16 11:30	SM5210B	
pH	7.38 pH Units	1.68	1	AG64019	07/27/16 18:40	07/27/16 18:40	SM4500-H+ B	T-14
Specific Conductance (EC)	840 umhos/cm	20	1	AG64013	07/27/16 16:00	07/27/16 17:00	SM2510B	
Total Dissolved Solids	350 mg/L	10	1	AG64011	08/01/16 10:00	08/04/16 09:51	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	170 mg/L	1.0	1	AH63169	08/01/16 15:18	08/05/16 17:16	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	220 mg/L	5.0	1	AG64054	08/02/16 08:00	08/02/16 17:00	SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AG64054	08/02/16 08:00	08/02/16 17:00	SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AG64054	08/02/16 08:00	08/02/16 17:00	SM2320B	
Total Alkalinity as CaCO3	220 mg/L	5.0	1	AG64054	08/02/16 08:00	08/02/16 17:00	SM2320B	
Total Kjeldahl Nitrogen	46 mg/L	1.0	1	AH63327	08/09/16 07:06	08/09/16 13:14	SM4500-Norg B	
Total Nitrogen	46 mg/L	1.0	1	AH63264	08/03/16 15:38	08/09/16 15:11	SM4500-N	
Hardness, Total	77 mg/L	5	1	AH63297	08/04/16 11:47	08/08/16 17:47	SM2340B	
Phosphorus, total	4.7 mg/L	2.0	5	AH63270	08/04/16 08:20	08/04/16 12:33	SM4500-PE	

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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:
08/11/16 10:49

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13223 / 072516C (16G2288-03)		Sample Type: Water			Sampled: 07/26/16 08:20			
Miscellaneous Physical/Conventional Chemistry Parameters								
Sodium Adsorption Ratio-Adj RNA	3.07 NA		1	AH63297	08/04/16 11:47	08/10/16 06:37	SAR	
Anions by EPA Method 300.0								
Chloride	69 mg/L	10	20	AG63986	07/27/16 21:56	07/27/16 21:56	EPA 300.0	
Nitrate as N	ND mg/L	0.20	1	AG63986	07/27/16 21:56	07/27/16 21:56	EPA 300.0	
Nitrate as NO3	ND mg/L	1.0	1	AG63986	07/27/16 21:56	07/27/16 21:56	EPA 300.0	
Nitrite as N	ND mg/L	0.20	1	AG63986	07/27/16 21:56	07/27/16 21:56	EPA 300.0	
Nitrite as NO2	ND mg/L	1.0	1	AG63986	07/27/16 21:56	07/27/16 21:56	EPA 300.0	
Sulfate as SO4	34 mg/L	0.50	1	AG63986	07/27/16 21:56	07/27/16 21:56	EPA 300.0	



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Reported:
08/11/16 10:49

Metals (Drinking Water) 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 AH63297 - Metals Digest										
Blank (AH63297-BLK1)				Prepared: 08/04/16 Analyzed: 08/08/16						
Potassium	ND	1.0	mg/L							
LCS (AH63297-BS1)				Prepared: 08/04/16 Analyzed: 08/08/16						
Potassium	7.57	1.0	mg/L	8.00		94.6	85-115			
Duplicate (AH63297-DUP1)				Source: 16G2414-01 Prepared: 08/04/16 Analyzed: 08/09/16						
Potassium	1.18	1.0	mg/L		1.20			1.36	20	
Matrix Spike (AH63297-MS1)				Source: 16G2414-01 Prepared: 08/04/16 Analyzed: 08/08/16						
Potassium	8.53	1.0	mg/L	8.00	1.20	91.7	70-130			
Matrix Spike (AH63297-MS2)				Source: 16H0407-01 Prepared: 08/04/16 Analyzed: 08/08/16						
Potassium	16.7	1.0	mg/L	8.00	10.1	83.4	70-130			
Matrix Spike Dup (AH63297-MSD1)				Source: 16G2414-01 Prepared: 08/04/16 Analyzed: 08/08/16						
Potassium	8.60	1.0	mg/L	8.00	1.20	92.6	70-130	0.829	20	



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

Reported:
08/11/16 10:49

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 AH63297 - Metals Digest										
Blank (AH63297-BLK1)				Prepared: 08/04/16 Analyzed: 08/08/16						
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 (AH63297-BS1)				Prepared: 08/04/16 Analyzed: 08/08/16						
Aluminum	1.91	0.050	mg/L	2.00		95.5	85-115			
Boron	0.373	0.050	mg/L	0.400		93.2	85-115			
Calcium	7.45	1.0	mg/L	8.00		93.1	85-115			
Iron	1.94	0.10	mg/L	2.00		96.8	85-115			
Magnesium	7.43	1.0	mg/L	8.00		92.9	85-115			
Manganese	0.189	0.020	mg/L	0.200		94.6	85-115			
Sodium	7.94	1.0	mg/L	8.00		99.2	85-115			
Zinc	0.190	0.020	mg/L	0.200		95.1	85-115			
Duplicate (AH63297-DUP1)				Source: 16G2414-01 Prepared: 08/04/16 Analyzed: 08/09/16						
Aluminum	0.147	0.050	mg/L		ND				20	
Boron	0.126	0.050	mg/L		0.131			3.94	20	
Calcium	29.6	1.0	mg/L		30.9			4.26	20	
Iron	ND	0.10	mg/L		ND			91.3	20	
Magnesium	6.93	1.0	mg/L		7.23			4.23	20	
Manganese	ND	0.020	mg/L		ND			64.8	20	
Sodium	35.0	1.0	mg/L		36.8			4.85	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:
08/11/16 10:49

Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
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Batch AH63297 - Metals Digest

Matrix Spike (AH63297-MS1)

Source: 16G2414-01

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

Aluminum	1.87	0.050	mg/L	2.00	ND	93.6	70-130			
Boron	0.477	0.050	mg/L	0.400	0.131	86.5	70-130			
Calcium	39.6	1.0	mg/L	8.00	30.9	109	70-130			
Iron	1.86	0.10	mg/L	2.00	ND	90.3	70-130			
Magnesium	14.4	1.0	mg/L	8.00	7.23	89.7	70-130			
Manganese	0.181	0.020	mg/L	0.200	ND	90.4	70-130			
Sodium	45.5	1.0	mg/L	8.00	36.8	109	70-130			
Zinc	0.189	0.020	mg/L	0.200	ND	94.7	70-130			

Matrix Spike (AH63297-MS2)

Source: 16H0407-01

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

Aluminum	1.94	0.050	mg/L	2.00	0.155	89.1	70-130			
Boron	0.645	0.050	mg/L	0.400	0.320	81.1	70-130			
Calcium	39.7	1.0	mg/L	8.00	32.9	85.2	70-130			
Iron	1.93	0.10	mg/L	2.00	0.189	87.0	70-130			
Magnesium	19.1	1.0	mg/L	8.00	12.5	81.8	70-130			
Manganese	0.182	0.020	mg/L	0.200	ND	87.1	70-130			
Sodium	95.9	1.0	mg/L	8.00	87.6	103	70-130			
Zinc	0.176	0.020	mg/L	0.200	ND	88.1	70-130			

Matrix Spike Dup (AH63297-MSD1)

Source: 16G2414-01

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

Aluminum	1.88	0.050	mg/L	2.00	ND	94.2	70-130	0.646	20	
Boron	0.486	0.050	mg/L	0.400	0.131	88.7	70-130	1.84	20	
Calcium	38.8	1.0	mg/L	8.00	30.9	98.8	70-130	2.01	20	
Iron	1.87	0.10	mg/L	2.00	ND	90.9	70-130	0.673	20	
Magnesium	14.4	1.0	mg/L	8.00	7.23	89.7	70-130	0.00549	20	
Manganese	0.181	0.020	mg/L	0.200	ND	90.4	70-130	0.0483	20	
Sodium	44.6	1.0	mg/L	8.00	36.8	97.7	70-130	2.03	20	
Zinc	0.189	0.020	mg/L	0.200	ND	94.3	70-130	0.383	20	

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Menlo Park, CA 94025

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

Reported:
08/11/16 10:49

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 AG64011 - General Preparation										
Blank (AG64011-BLK1)				Prepared: 08/01/16 Analyzed: 08/04/16						
Total Dissolved Solids	ND	10	mg/L							
Duplicate (AG64011-DUP1)				Source: 16G2275-04 Prepared: 08/01/16 Analyzed: 08/04/16						
Total Dissolved Solids	26.0	10	mg/L		25.0			3.92	15	
Duplicate (AG64011-DUP2)				Source: 16G2290-02 Prepared: 08/01/16 Analyzed: 08/04/16						
Total Dissolved Solids	28.0	10	mg/L		29.0			3.51	15	
Batch AG64019 - General Preparation										
Duplicate (AG64019-DUP1)				Source: 16G2454-01 Prepared & Analyzed: 07/27/16						
pH	8.26	1.68	pH Units		8.40			1.68	20	
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 AG64054 - General Preparation										
Duplicate (AG64054-DUP1)				Source: 16G2520-01 Prepared & Analyzed: 08/02/16						
Bicarbonate	396	5.0	mg/L		390			1.55	20	
Bicarbonate Alkalinity as CaCO ₃	325	5.0	mg/L		320			1.55	20	
Hydroxide Alkalinity as CaCO ₃	ND	5.0	mg/L		ND				20	
Carbonate Alkalinity as CaCO ₃	ND	5.0	mg/L		ND				20	
Total Alkalinity as CaCO ₃	325	5.0	mg/L		320			1.55	20	

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

Reported:
08/11/16 10:49

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 AH63129 - General Preparation										
Blank (AH63129-BLK1)				Prepared: 08/01/16 Analyzed: 08/04/16						
Total Suspended Solids	ND	1.0	mg/L							
Duplicate (AH63129-DUP1)				Source: 16G2234-02 Prepared: 08/01/16 Analyzed: 08/04/16						
Total Suspended Solids	287	1.0	mg/L		284			1.25	30	
Duplicate (AH63129-DUP2)				Source: 16G2450-03 Prepared: 08/01/16 Analyzed: 08/04/16						
Total Suspended Solids	279	1.0	mg/L		262			6.04	30	
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	

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Reported:
08/11/16 10:49

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 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			
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 AH63169 - General Preparation										
Blank (AH63169-BLK1) Prepared: 08/01/16 Analyzed: 08/05/16										
Volatile Suspended Solids	ND	1.0	mg/L							
Duplicate (AH63169-DUP1) Source: 16H0027-01 Prepared: 08/01/16 Analyzed: 08/05/16										
Volatile Suspended Solids	444	1.0	mg/L		429			3.51	30	
Duplicate (AH63169-DUP2) Source: 16H0027-02 Prepared: 08/01/16 Analyzed: 08/05/16										
Volatile Suspended Solids	282	1.0	mg/L		309			9.17	30	
Batch AH63270 - General Prep										
Blank (AH63270-BLK1) Prepared & Analyzed: 08/04/16										
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
Batch AH63270 - General Prep										
LCS (AH63270-BS1)				Prepared & Analyzed: 08/04/16						
Phosphorus, total	0.193	0.040	mg/L	0.200		96.3	85-115			
Duplicate (AH63270-DUP1)				Source: 16G2288-01 Prepared & Analyzed: 08/04/16						
Phosphorus, total	5.65	2.0	mg/L		5.65			0.00	20	
Matrix Spike (AH63270-MS1)				Source: 16G2288-01 Prepared & Analyzed: 08/04/16						
Phosphorus, total	6.96	2.0	mg/L	2.00	5.65	65.3	70-130			QM-4X
Matrix Spike Dup (AH63270-MSD1)				Source: 16G2288-01 Prepared & Analyzed: 08/04/16						
Phosphorus, total	6.89	2.0	mg/L	2.00	5.65	62.0	70-130	0.939	20	QM-4X
Batch AH63297 - Metals Digest										
Blank (AH63297-BLK1)				Prepared: 08/04/16 Analyzed: 08/08/16						
Hardness, Total	ND	5	mg/L							
Duplicate (AH63297-DUP1)				Source: 16G2414-01 Prepared: 08/04/16 Analyzed: 08/09/16						
Hardness, Total	102	5	mg/L		107			4.25	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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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	%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 AH63470 - General Preparation										
Blank (AH63470-BLK1)					Prepared & Analyzed: 08/10/16					
Ammonia as NH3	ND	0.50	mg/L							
LCS (AH63470-BS1)					Prepared & Analyzed: 08/10/16					
Ammonia as NH3	5.96	0.50	mg/L	6.10		97.7	90-110			
LCS Dup (AH63470-BSD1)					Prepared & Analyzed: 08/10/16					
Ammonia as NH3	5.85	0.50	mg/L	6.10		96.0	90-110	1.81	10	
Matrix Spike (AH63470-MS1)		Source: 16G2283-01			Prepared & Analyzed: 08/10/16					
Ammonia as NH3	11.9	0.50	mg/L	12.2	ND	97.7	85-115			
Matrix Spike Dup (AH63470-MSD1)		Source: 16G2283-01			Prepared & Analyzed: 08/10/16					
Ammonia as NH3	11.7	0.50	mg/L	12.2	ND	96.0	85-115	1.80	20	

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Project: WQ Monitoring
Project Number: [none]

Reported:
08/11/16 10:49

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 AG63986 - General Preparation										
Blank (AG63986-BLK1)				Prepared & Analyzed: 07/27/16						
Chloride	ND	0.50	mg/L							
Sulfate as SO4	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							
Nitrite as NO2	ND	1.0	mg/L							
LCS (AG63986-BS1)				Prepared & Analyzed: 07/27/16						
Sulfate as SO4	22.2	0.50	mg/L	22.2		100	90-110			
Nitrite as NO2	18.6	1.0	mg/L	18.2		102	90-110			
Chloride	11.5	0.50	mg/L	11.1		103	90-110			
Nitrite as N	5.66	0.20	mg/L	5.56		102	90-110			
Nitrate as N	5.72	0.20	mg/L	5.56		103	90-110			
Nitrate as NO3	25	1.0	mg/L	24.7		103	90-110			
Duplicate (AG63986-DUP1)				Source: 16G2275-01			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	
Sulfate as SO4	ND	0.50	mg/L		ND				20	
Nitrate as NO3	2.6	1.0	mg/L		2.7			4.17	20	
Chloride	ND	0.50	mg/L		ND			1.32	20	
Nitrate as N	0.594	0.20	mg/L		0.620			4.17	20	
Matrix Spike (AG63986-MS1)				Source: 16G2275-01			Prepared & Analyzed: 07/27/16			
Nitrite as N	5.76	0.20	mg/L	5.56	ND	104	80-120			
Chloride	12.0	0.50	mg/L	11.1	ND	105	80-120			
Nitrate as NO3	29	1.0	mg/L	24.7	2.7	105	80-120			
Nitrite as NO2	18.9	1.0	mg/L	18.2	ND	104	80-120			
Sulfate as SO4	22.6	0.50	mg/L	22.2	ND	102	80-120			
Nitrate as N	6.45	0.20	mg/L	5.56	0.620	105	80-120			

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Project Number: [none]

Reported:
08/11/16 10:49

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 AG63986 - General Preparation

Matrix Spike (AG63986-MS2)

Source: 16G2279-01

Prepared & Analyzed: 07/28/16

Nitrate as N	5.78	0.20	mg/L	5.56	ND	103	80-120			
Nitrite as NO2	12.2	1.0	mg/L	18.2	ND	67.1	80-120			QM-05
Sulfate as SO4	22.9	0.50	mg/L	22.2	ND	102	80-120			
Chloride	13.3	0.50	mg/L	11.1	1.68	104	80-120			
Nitrite as N	3.72	0.20	mg/L	5.56	ND	67.0	80-120			QM-05
Nitrate as NO3	26	1.0	mg/L	24.7	ND	103	80-120			

Matrix Spike Dup (AG63986-MSD1)

Source: 16G2275-01

Prepared & Analyzed: 07/27/16

Nitrite as NO2	19.0	1.0	mg/L	18.2	ND	104	80-120	0.308	20	
Chloride	12.0	0.50	mg/L	11.1	ND	105	80-120	0.0463	20	
Sulfate as SO4	22.5	0.50	mg/L	22.2	ND	101	80-120	0.335	20	
Nitrite as N	5.77	0.20	mg/L	5.56	ND	104	80-120	0.308	20	
Nitrate as N	6.46	0.20	mg/L	5.56	0.620	105	80-120	0.132	20	
Nitrate as NO3	29	1.0	mg/L	24.7	2.7	105	80-120	0.132	20	



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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

Work Order Chain of Custody Record

Lab No. 1662288 Page of

3.9

Company/Name: West Bay Sanitary District		Project ID: WQ Monitoring		Signature below authorizes work under terms stated on reverse side.															TAT																																																																			
Mailing Address: 500 Laurel Street Menlo Park, CA 94025		Project No:		<table border="1"> <tr> <th colspan="15">Analysis Request</th> <th>Sample Notes</th> <th>TAT</th> </tr> <tr> <td>DU BOD</td> <td>DU pH</td> <td>200.7 - B, Ca, Mg, Na, Al, Fe, Mn, Zn</td> <td>Ammonia, Phosphorus</td> <td>Total Nitrogen</td> <td>Sulfate, Chloride, EC, NO2, NO3</td> <td>Alkalinity, Bicarbonate</td> <td>SAR Adjusted Calculation</td> <td>Silica</td> <td>TDS</td> <td>TSS</td> <td>VSS</td> <td>Hardness Calc</td> <td colspan="3" rowspan="2">4.6</td> <td>24 hr</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> <td></td> <td></td> <td></td> <td>48 hr</td> </tr> <tr> <td colspan="15"></td> <td colspan="1">Lab Approval Required</td> <td colspan="1">Lab Approval Required For Rush</td> </tr> </table>															Analysis Request															Sample Notes	TAT	DU BOD	DU pH	200.7 - B, Ca, Mg, Na, Al, Fe, Mn, Zn	Ammonia, Phosphorus	Total Nitrogen	Sulfate, Chloride, EC, NO2, NO3	Alkalinity, Bicarbonate	SAR Adjusted Calculation	Silica	TDS	TSS	VSS	Hardness Calc	4.6			24 hr																48 hr																Lab Approval Required	Lab Approval Required For Rush	24 hr <input type="radio"/>
Analysis Request																			Sample Notes	TAT																																																																		
DU BOD	DU pH	200.7 - B, Ca, Mg, Na, Al, Fe, Mn, Zn	Ammonia, Phosphorus	Total Nitrogen	Sulfate, Chloride, EC, NO2, NO3	Alkalinity, Bicarbonate	SAR Adjusted Calculation	Silica	TDS	TSS	VSS	Hardness Calc	4.6			24 hr																																																																						
																		48 hr																																																																				
															Lab Approval Required	Lab Approval Required For Rush																																																																						
Project Contact & Email (Hardcopy or PDF to): John Simonetti jsimonetti@westbaysanitary.org		PO#																	48 hr <input type="radio"/>																																																																			
Phone/Fax:		Site Contact: John Simonetti																	Lab Approval Required																																																																			
Field Sampler - Print Name & Signature		Sample Collection		Container			Preservative				Matrix																		1 wk <input type="radio"/>																																																									
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, Al, Fe, Mn, Zn	Ammonia, Phosphorus	Total Nitrogen	Sulfate, Chloride, EC, NO2, NO3	Alkalinity, Bicarbonate	SAR Adjusted Calculation	Silica	TDS	TSS	VSS	Hardness Calc	2 wk (standard) <input type="radio"/>																																																								
G13104		7/26	0855	5						1	1			3	X		X	X	X	X	X	X	X	X	X	X	X	X	X	Lab Approval Required For Rush																																																								
072516A																																																																																						
G13220		7/26	0920	5						1	1			3	X		X	X	X	X	X	X	X	X	X	X	X	X	X																																																									
072516B																																																																																						
G13223		7/26	0820	5						1	1			3	X		X	X	X	X	X	X	X	X	X	X	X	X	X																																																									
072516C																																																																																						
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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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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

12 August 2016

West Bay Sanitary District

Attn: John Simonetti

500 Laurel Street

Menlo Park, CA 94025

RE: WQ Monitoring

Work Order: 16G2450

Enclosed are the results of analyses for samples received by the laboratory on 07/27/16 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:
08/12/16 08:40

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
G13104 / 072616A	16G2450-01	Water	07/27/16 08:55	07/27/16 21:00
G13220 / 072616B	16G2450-02	Water	07/27/16 09:10	07/27/16 21:00
G13223 / 072616C	16G2450-03	Water	07/27/16 08:20	07/27/16 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:
08/12/16 08:40

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13104 / 072616A (16G2450-01)		Sample Type: Water			Sampled: 07/27/16 08:55			
Metals (Drinking Water) by EPA 200 Series Methods								
Potassium	15 mg/L	1.0	1	AH63297	08/04/16 11:47	08/10/16 16:14	EPA 200.7	
Metals by EPA 200 Series Methods								
Aluminum	0.61 mg/L	0.050	1	AH63297	08/04/16 11:47	08/10/16 16:14	EPA 200.7	
Boron	0.26 mg/L	0.050	1	AH63297	08/04/16 11:47	08/10/16 16:14	EPA 200.7	
Calcium	24 mg/L	1.0	1	AH63297	08/04/16 11:47	08/10/16 16:14	EPA 200.7	
Iron	1.4 mg/L	0.10	1	AH63297	08/04/16 11:47	08/10/16 16:14	EPA 200.7	
Magnesium	4.2 mg/L	1.0	1	AH63297	08/04/16 11:47	08/10/16 16:14	EPA 200.7	
Manganese	0.067 mg/L	0.020	1	AH63297	08/04/16 11:47	08/10/16 16:14	EPA 200.7	
Sodium	74 mg/L	1.0	1	AH63297	08/04/16 11:47	08/10/16 16:14	EPA 200.7	
Zinc	0.23 mg/L	0.020	1	AH63297	08/04/16 11:47	08/10/16 16:14	EPA 200.7	
Conventional Chemistry Parameters by APHA/EPA Methods								
Ammonia as NH3	49 mg/L	0.50	1	AH63429	08/09/16 08:10	08/09/16 17:00	SM4500NH3C	
Bicarbonate	250 mg/L	5.0	1	AG64054	08/02/16 08:00	08/02/16 17:00	SM2320B	
Biochemical Oxygen Demand	320 mg/L	5.0	1	AH63209	07/28/16 14:00	08/02/16 13:00	SM5210B	
pH	7.11 pH Units	1.68	1	AG64019	07/27/16 18:40	07/27/16 18:40	SM4500-H+ B	T-14
Specific Conductance (EC)	890 umhos/cm	20	1	AG64047	07/28/16 16:00	07/28/16 17:00	SM2510B	
Total Dissolved Solids	400 mg/L	10	1	AH63187	08/02/16 08:45	08/04/16 10:02	SM2540C	
Total Suspended Solids	400 mg/L	1.0	1	AH63129	08/01/16 08:57	08/04/16 17:29	SM2540D	
Volatile Suspended Solids	370 mg/L	1.0	1	AH63169	08/01/16 15:18	08/05/16 17:16	EPA 160.4	
Silica	14 mg/L	5.0	5	AH63234	08/03/16 10:00	08/03/16 12:45	SM4500-SiO2 C	
Bicarbonate Alkalinity as CaCO3	200 mg/L	5.0	1	AG64054	08/02/16 08:00	08/02/16 17:00	SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AG64054	08/02/16 08:00	08/02/16 17:00	SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AG64054	08/02/16 08:00	08/02/16 17:00	SM2320B	
Total Alkalinity as CaCO3	200 mg/L	5.0	1	AG64054	08/02/16 08:00	08/02/16 17:00	SM2320B	
Total Kjeldahl Nitrogen	56 mg/L	1.0	1	AH63428	08/10/16 06:29	08/10/16 12:35	SM4500-Norg B	
Total Nitrogen	56 mg/L	1.0	1	AH63266	08/03/16 15:40	08/10/16 14:19	SM4500-N	
Hardness, Total	76 mg/L	5	1	AH63297	08/04/16 11:47	08/10/16 16:14	SM2340B	
Phosphorus, total	7.2 mg/L	2.0	5	AH63270	08/04/16 08:20	08/04/16 12:33	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:
08/12/16 08:40

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13104 / 072616A (16G2450-01)		Sample Type: Water			Sampled: 07/27/16 08:55			
Miscellaneous Physical/Conventional Chemistry Parameters								
Sodium Adsorption Ratio-Adj RNA	4.17 NA		1	AH63297	08/04/16 11:47	08/11/16 13:59	SAR	
Anions by EPA Method 300.0								
Chloride	110 mg/L	10	20	AG64017	07/28/16 17:17	07/28/16 17:17	EPA 300.0	
Nitrate as N	ND mg/L	0.20	1	AG64017	07/28/16 17:35	07/28/16 17:35	EPA 300.0	
Nitrate as NO3	ND mg/L	1.0	1	AG64017	07/28/16 17:35	07/28/16 17:35	EPA 300.0	
Nitrite as N	ND mg/L	0.20	1	AG64017	07/28/16 17:35	07/28/16 17:35	EPA 300.0	
Nitrite as NO2	ND mg/L	1.0	1	AG64017	07/28/16 17:35	07/28/16 17:35	EPA 300.0	
Sulfate as SO4	21 mg/L	0.50	1	AG64017	07/28/16 17:35	07/28/16 17:35	EPA 300.0	
G13220 / 072616B (16G2450-02)		Sample Type: Water			Sampled: 07/27/16 09:10			
Metals (Drinking Water) by EPA 200 Series Methods								
Potassium	16 mg/L	1.0	1	AH63297	08/04/16 11:47	08/10/16 16:19	EPA 200.7	
Metals by EPA 200 Series Methods								
Aluminum	1.4 mg/L	0.050	1	AH63297	08/04/16 11:47	08/10/16 16:19	EPA 200.7	
Boron	0.16 mg/L	0.050	1	AH63297	08/04/16 11:47	08/10/16 16:19	EPA 200.7	
Calcium	28 mg/L	1.0	1	AH63297	08/04/16 11:47	08/10/16 16:19	EPA 200.7	
Iron	3.9 mg/L	0.10	1	AH63297	08/04/16 11:47	08/10/16 16:19	EPA 200.7	
Magnesium	11 mg/L	1.0	1	AH63297	08/04/16 11:47	08/10/16 16:19	EPA 200.7	
Manganese	0.075 mg/L	0.020	1	AH63297	08/04/16 11:47	08/10/16 16:19	EPA 200.7	
Sodium	54 mg/L	1.0	1	AH63297	08/04/16 11:47	08/10/16 16:19	EPA 200.7	
Zinc	0.43 mg/L	0.020	1	AH63297	08/04/16 11:47	08/10/16 16:19	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:
08/12/16 08:40

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note	
G13220 / 072616B (16G2450-02)		Sample Type: Water			Sampled: 07/27/16 09:10				
Conventional Chemistry Parameters by APHA/EPA Methods									
Ammonia as NH3	55 mg/L	0.50	1	AH63429	08/09/16 08:10	08/09/16 17:00	SM4500NH3C		
Bicarbonate	270 mg/L	5.0	1	AG64054	08/02/16 08:00	08/02/16 17:00	SM2320B		
Biochemical Oxygen Demand	450 mg/L	5.0	1	AH63209	07/28/16 14:00	08/02/16 13:00	SM5210B		
pH	7.15 pH Units	1.68	1	AG64019	07/27/16 18:40	07/27/16 18:40	SM4500-H+ B	T-14	
Specific Conductance (EC)	800 umhos/cm	20	1	AG64047	07/28/16 16:00	07/28/16 17:00	SM2510B		
Total Dissolved Solids	340 mg/L	10	1	AH63187	08/02/16 08:45	08/04/16 10:02	SM2540C		
Total Suspended Solids	460 mg/L	1.0	1	AH63129	08/01/16 08:57	08/04/16 17:29	SM2540D		
Volatile Suspended Solids	420 mg/L	1.0	1	AH63169	08/01/16 15:18	08/05/16 17:16	EPA 160.4		
Silica	16 mg/L	5.0	5	AH63234	08/03/16 10:00	08/03/16 12:45	SM4500-SiO2 C		
Bicarbonate Alkalinity as CaCO3	220 mg/L	5.0	1	AG64054	08/02/16 08:00	08/02/16 17:00	SM2320B		
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AG64054	08/02/16 08:00	08/02/16 17:00	SM2320B		
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AG64054	08/02/16 08:00	08/02/16 17:00	SM2320B		
Total Alkalinity as CaCO3	220 mg/L	5.0	1	AG64054	08/02/16 08:00	08/02/16 17:00	SM2320B		
Total Kjeldahl Nitrogen	72 mg/L	1.0	1	AH63428	08/10/16 06:29	08/11/16 11:56	SM4500-Norg B		
Total Nitrogen	72 mg/L	1.0	1	AH63266	08/03/16 15:40	08/11/16 13:36	SM4500-N		
Hardness, Total	113 mg/L	5	1	AH63297	08/04/16 11:47	08/10/16 16:19	SM2340B		
Phosphorus, total	7.9 mg/L	2.0	5	AH63270	08/04/16 08:20	08/04/16 12:33	SM4500-P E		
Miscellaneous Physical/Conventional Chemistry Parameters									
Sodium Adsorption Ratio-Adj RNA	2.49 NA		1	AH63297	08/04/16 11:47	08/11/16 13:59	SAR		
Anions by EPA Method 300.0									
Chloride	57 mg/L	10	20	AG64017	07/28/16 17:51	07/28/16 17:51	EPA 300.0		
Nitrate as N	ND mg/L	0.20	1	AG64017	07/28/16 18:07	07/28/16 18:07	EPA 300.0		
Nitrate as NO3	ND mg/L	1.0	1	AG64017	07/28/16 18:07	07/28/16 18:07	EPA 300.0		
Nitrite as N	ND mg/L	0.20	1	AG64017	07/28/16 18:07	07/28/16 18:07	EPA 300.0		
Nitrite as NO2	ND mg/L	1.0	1	AG64017	07/28/16 18:07	07/28/16 18:07	EPA 300.0		
Sulfate as SO4	45 mg/L	10	20	AG64017	07/28/16 17:51	07/28/16 17:51	EPA 300.0		
G13223 / 072616C (16G2450-03)		Sample Type: Water			Sampled: 07/27/16 08:20				
Metals (Drinking Water) by EPA 200 Series Methods									
Potassium	19 mg/L	1.0	1	AH63297	08/04/16 11:47	08/10/16 16:23	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:
08/12/16 08:40

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13223 / 072616C (16G2450-03)								
Sample Type: Water								
Sampled: 07/27/16 08:20								
Metals by EPA 200 Series Methods								
Aluminum	0.68 mg/L	0.050	1	AH63297	08/04/16 11:47	08/10/16 16:23	EPA 200.7	
Boron	0.24 mg/L	0.050	1	AH63297	08/04/16 11:47	08/10/16 16:23	EPA 200.7	
Calcium	20 mg/L	1.0	1	AH63297	08/04/16 11:47	08/10/16 16:23	EPA 200.7	
Iron	1.8 mg/L	0.10	1	AH63297	08/04/16 11:47	08/10/16 16:23	EPA 200.7	
Magnesium	6.4 mg/L	1.0	1	AH63297	08/04/16 11:47	08/10/16 16:23	EPA 200.7	
Manganese	0.057 mg/L	0.020	1	AH63297	08/04/16 11:47	08/10/16 16:23	EPA 200.7	
Sodium	62 mg/L	1.0	1	AH63297	08/04/16 11:47	08/10/16 16:23	EPA 200.7	
Zinc	0.23 mg/L	0.020	1	AH63297	08/04/16 11:47	08/10/16 16:23	EPA 200.7	
Conventional Chemistry Parameters by APHA/EPA Methods								
Ammonia as NH3	58 mg/L	0.50	1	AH63429	08/09/16 08:10	08/09/16 17:00	SM4500NH3C	
Bicarbonate	270 mg/L	5.0	1	AG64054	08/02/16 08:00	08/02/16 17:00	SM2320B	
Biochemical Oxygen Demand	280 mg/L	5.0	1	AH63209	07/28/16 14:00	08/02/16 13:00	SM5210B	
pH	7.09 pH Units	1.68	1	AG64019	07/27/16 18:40	07/27/16 18:40	SM4500-H+ B	T-14
Specific Conductance (EC)	850 umhos/cm	20	1	AG64047	07/28/16 16:00	07/28/16 17:00	SM2510B	
Total Dissolved Solids	400 mg/L	10	1	AH63187	08/02/16 08:45	08/04/16 16:49	SM2540C	
Total Suspended Solids	260 mg/L	1.0	1	AH63129	08/01/16 08:57	08/04/16 17:29	SM2540D	
Volatile Suspended Solids	240 mg/L	1.0	1	AH63169	08/01/16 15:18	08/05/16 17:16	EPA 160.4	
Silica	16 mg/L	5.0	5	AH63234	08/03/16 10:00	08/03/16 12:45	SM4500-SiO2 C	
Bicarbonate Alkalinity as CaCO3	220 mg/L	5.0	1	AG64054	08/02/16 08:00	08/02/16 17:00	SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AG64054	08/02/16 08:00	08/02/16 17:00	SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AG64054	08/02/16 08:00	08/02/16 17:00	SM2320B	
Total Alkalinity as CaCO3	220 mg/L	5.0	1	AG64054	08/02/16 08:00	08/02/16 17:00	SM2320B	
Total Kjeldahl Nitrogen	65 mg/L	1.0	1	AH63428	08/10/16 06:29	08/11/16 11:56	SM4500-Norg B	
Total Nitrogen	65 mg/L	1.0	1	AH63266	08/03/16 15:40	08/11/16 13:36	SM4500-N	
Hardness, Total	75 mg/L	5	1	AH63297	08/04/16 11:47	08/10/16 16:23	SM2340B	
Phosphorus, total	6.8 mg/L	2.0	5	AH63270	08/04/16 08:20	08/04/16 12:33	SM4500-PE	

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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:
08/12/16 08:40

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13223 / 072616C (16G2450-03)		Sample Type: Water			Sampled: 07/27/16 08:20			
Miscellaneous Physical/Conventional Chemistry Parameters								
Sodium Adsorption Ratio-Adj RNA	3.45 NA		1	AH63297	08/04/16 11:47	08/11/16 13:59	SAR	
Anions by EPA Method 300.0								
Chloride	75 mg/L	10	20	AG64017	07/28/16 18:56	07/28/16 18:56	EPA 300.0	
Nitrate as N	ND mg/L	0.20	1	AG64017	07/28/16 19:12	07/28/16 19:12	EPA 300.0	
Nitrate as NO3	ND mg/L	1.0	1	AG64017	07/28/16 19:12	07/28/16 19:12	EPA 300.0	
Nitrite as N	ND mg/L	0.20	1	AG64017	07/28/16 19:12	07/28/16 19:12	EPA 300.0	
Nitrite as NO2	ND mg/L	1.0	1	AG64017	07/28/16 19:12	07/28/16 19:12	EPA 300.0	
Sulfate as SO4	35 mg/L	0.50	1	AG64017	07/28/16 19:12	07/28/16 19:12	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: [none]

Reported:
08/12/16 08:40

Metals (Drinking Water) 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 AH63297 - Metals Digest										
Blank (AH63297-BLK1)				Prepared: 08/04/16 Analyzed: 08/08/16						
Potassium	ND	1.0	mg/L							
LCS (AH63297-BS1)				Prepared: 08/04/16 Analyzed: 08/08/16						
Potassium	7.57	1.0	mg/L	8.00		94.6	85-115			
Duplicate (AH63297-DUP1)				Source: 16G2414-01 Prepared: 08/04/16 Analyzed: 08/09/16						
Potassium	1.18	1.0	mg/L		1.20			1.36	20	
Matrix Spike (AH63297-MS1)				Source: 16G2414-01 Prepared: 08/04/16 Analyzed: 08/08/16						
Potassium	8.53	1.0	mg/L	8.00	1.20	91.7	70-130			
Matrix Spike (AH63297-MS2)				Source: 16H0407-01 Prepared: 08/04/16 Analyzed: 08/08/16						
Potassium	16.7	1.0	mg/L	8.00	10.1	83.4	70-130			
Matrix Spike Dup (AH63297-MSD1)				Source: 16G2414-01 Prepared: 08/04/16 Analyzed: 08/08/16						
Potassium	8.60	1.0	mg/L	8.00	1.20	92.6	70-130	0.829	20	



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

Reported:
08/12/16 08:40

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 AH63297 - Metals Digest										
Blank (AH63297-BLK1)				Prepared: 08/04/16 Analyzed: 08/08/16						
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 (AH63297-BS1)				Prepared: 08/04/16 Analyzed: 08/08/16						
Aluminum	1.91	0.050	mg/L	2.00		95.5	85-115			
Boron	0.373	0.050	mg/L	0.400		93.2	85-115			
Calcium	7.45	1.0	mg/L	8.00		93.1	85-115			
Iron	1.94	0.10	mg/L	2.00		96.8	85-115			
Magnesium	7.43	1.0	mg/L	8.00		92.9	85-115			
Manganese	0.189	0.020	mg/L	0.200		94.6	85-115			
Sodium	7.94	1.0	mg/L	8.00		99.2	85-115			
Zinc	0.190	0.020	mg/L	0.200		95.1	85-115			
Duplicate (AH63297-DUP1)				Source: 16G2414-01 Prepared: 08/04/16 Analyzed: 08/09/16						
Aluminum	0.147	0.050	mg/L		ND				20	
Boron	0.126	0.050	mg/L		0.131			3.94	20	
Calcium	29.6	1.0	mg/L		30.9			4.26	20	
Iron	ND	0.10	mg/L		ND			91.3	20	
Magnesium	6.93	1.0	mg/L		7.23			4.23	20	
Manganese	ND	0.020	mg/L		ND			64.8	20	
Sodium	35.0	1.0	mg/L		36.8			4.85	20	
Zinc	ND	0.020	mg/L		ND				20	

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Menlo Park, CA 94025

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

Reported:
08/12/16 08:40

Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
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Batch AH63297 - Metals Digest

Matrix Spike (AH63297-MS1)

Source: 16G2414-01

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

Aluminum	1.87	0.050	mg/L	2.00	ND	93.6	70-130			
Boron	0.477	0.050	mg/L	0.400	0.131	86.5	70-130			
Calcium	39.6	1.0	mg/L	8.00	30.9	109	70-130			
Iron	1.86	0.10	mg/L	2.00	ND	90.3	70-130			
Magnesium	14.4	1.0	mg/L	8.00	7.23	89.7	70-130			
Manganese	0.181	0.020	mg/L	0.200	ND	90.4	70-130			
Sodium	45.5	1.0	mg/L	8.00	36.8	109	70-130			
Zinc	0.189	0.020	mg/L	0.200	ND	94.7	70-130			

Matrix Spike (AH63297-MS2)

Source: 16H0407-01

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

Aluminum	1.94	0.050	mg/L	2.00	0.155	89.1	70-130			
Boron	0.645	0.050	mg/L	0.400	0.320	81.1	70-130			
Calcium	39.7	1.0	mg/L	8.00	32.9	85.2	70-130			
Iron	1.93	0.10	mg/L	2.00	0.189	87.0	70-130			
Magnesium	19.1	1.0	mg/L	8.00	12.5	81.8	70-130			
Manganese	0.182	0.020	mg/L	0.200	ND	87.1	70-130			
Sodium	95.9	1.0	mg/L	8.00	87.6	103	70-130			
Zinc	0.176	0.020	mg/L	0.200	ND	88.1	70-130			

Matrix Spike Dup (AH63297-MSD1)

Source: 16G2414-01

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

Aluminum	1.88	0.050	mg/L	2.00	ND	94.2	70-130	0.646	20	
Boron	0.486	0.050	mg/L	0.400	0.131	88.7	70-130	1.84	20	
Calcium	38.8	1.0	mg/L	8.00	30.9	98.8	70-130	2.01	20	
Iron	1.87	0.10	mg/L	2.00	ND	90.9	70-130	0.673	20	
Magnesium	14.4	1.0	mg/L	8.00	7.23	89.7	70-130	0.00549	20	
Manganese	0.181	0.020	mg/L	0.200	ND	90.4	70-130	0.0483	20	
Sodium	44.6	1.0	mg/L	8.00	36.8	97.7	70-130	2.03	20	
Zinc	0.189	0.020	mg/L	0.200	ND	94.3	70-130	0.383	20	



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Menlo Park, CA 94025

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

Reported:
08/12/16 08:40

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 AG64019 - General Preparation										
Duplicate (AG64019-DUP1)		Source: 16G2454-01			Prepared & Analyzed: 07/27/16					
pH	8.26	1.68	pH Units		8.40			1.68	20	
Batch AG64047 - General Preparation										
Duplicate (AG64047-DUP1)		Source: 16G2474-02			Prepared & Analyzed: 07/28/16					
Specific Conductance (EC)	45600	20	umhos/cm		45000			1.32	5	
Batch AG64054 - General Preparation										
Duplicate (AG64054-DUP1)		Source: 16G2520-01			Prepared & Analyzed: 08/02/16					
Bicarbonate	396	5.0	mg/L		390			1.55	20	
Hydroxide Alkalinity as CaCO ₃	ND	5.0	mg/L		ND				20	
Carbonate Alkalinity as CaCO ₃	ND	5.0	mg/L		ND				20	
Total Alkalinity as CaCO ₃	325	5.0	mg/L		320			1.55	20	
Bicarbonate Alkalinity as CaCO ₃	325	5.0	mg/L		320			1.55	20	
Batch AH63129 - General Preparation										
Blank (AH63129-BLK1)					Prepared: 08/01/16 Analyzed: 08/04/16					
Total Suspended Solids	ND	1.0	mg/L							
Duplicate (AH63129-DUP1)		Source: 16G2234-02			Prepared: 08/01/16 Analyzed: 08/04/16					
Total Suspended Solids	287	1.0	mg/L		284			1.25	30	
Duplicate (AH63129-DUP2)		Source: 16G2450-03			Prepared: 08/01/16 Analyzed: 08/04/16					
Total Suspended Solids	279	1.0	mg/L		262			6.04	30	

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Reported:
08/12/16 08:40

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 AH63169 - General Preparation										
Blank (AH63169-BLK1) Prepared: 08/01/16 Analyzed: 08/05/16										
Volatile Suspended Solids	ND	1.0	mg/L							
Duplicate (AH63169-DUP1) Source: 16H0027-01 Prepared: 08/01/16 Analyzed: 08/05/16										
Volatile Suspended Solids	444	1.0	mg/L		429			3.51	30	
Duplicate (AH63169-DUP2) Source: 16H0027-02 Prepared: 08/01/16 Analyzed: 08/05/16										
Volatile Suspended Solids	282	1.0	mg/L		309			9.17	30	
Batch AH63187 - General Preparation										
Blank (AH63187-BLK1) Prepared: 08/01/16 Analyzed: 08/04/16										
Total Dissolved Solids	ND	10	mg/L							
Duplicate (AH63187-DUP1) Source: 16G2404-01 Prepared: 08/01/16 Analyzed: 08/04/16										
Total Dissolved Solids	129	10	mg/L		135			4.55	15	
Duplicate (AH63187-DUP2) Source: 16H0110-02 Prepared: 08/01/16 Analyzed: 08/04/16										
Total Dissolved Solids	52.0	10	mg/L		54.0			3.77	15	
Batch AH63209 - General Preparation										
Blank (AH63209-BLK1) Prepared: 07/28/16 Analyzed: 08/02/16										
Biochemical Oxygen Demand	ND	5.0	mg/L							
Blank (AH63209-BLK2) Prepared: 07/28/16 Analyzed: 08/02/16										
Biochemical Oxygen Demand	ND	5.0	mg/L							

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Project Number: [none]

Reported:
08/12/16 08:40

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 AH63209 - General Preparation										
LCS (AH63209-BS1)				Prepared: 07/27/16 Analyzed: 08/01/16						
Biochemical Oxygen Demand	218	5.0	mg/L	200		109	84-115			
Duplicate (AH63209-DUP1)				Source: 16G2292-02 Prepared: 07/28/16 Analyzed: 08/02/16						
Biochemical Oxygen Demand	ND	5.0	mg/L		42.0				30	
Batch AH63234 - General Preparation										
Blank (AH63234-BLK1)				Prepared & Analyzed: 08/03/16						
Silica	ND	1.0	mg/L							
LCS (AH63234-BS1)				Prepared & Analyzed: 08/03/16						
Silica	9.74	1.0	mg/L	10.0		97.4	85-115			
LCS Dup (AH63234-BSD1)				Prepared & Analyzed: 08/03/16						
Silica	9.74	1.0	mg/L	10.0		97.4	85-115	0.00	20	
Duplicate (AH63234-DUP1)				Source: 16G2526-02 Prepared & Analyzed: 08/03/16						
Silica	15.3	5.0	mg/L		15.3			0.00	20	
Matrix Spike (AH63234-MS1)				Source: 16G2526-02 Prepared & Analyzed: 08/03/16						
Silica	38.7	5.0	mg/L	25.0	15.3	93.5	80-120			
Matrix Spike Dup (AH63234-MSD1)				Source: 16G2526-02 Prepared & Analyzed: 08/03/16						
Silica	39.3	5.0	mg/L	25.0	15.3	95.9	80-120	1.54	20	
Batch AH63270 - General Prep										
Blank (AH63270-BLK1)				Prepared & Analyzed: 08/04/16						
Phosphorus, total	ND	0.040	mg/L							

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Project: WQ Monitoring
Project Number: [none]

Reported:
08/12/16 08:40

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 AH63270 - General Prep										
LCS (AH63270-BS1)				Prepared & Analyzed: 08/04/16						
Phosphorus, total	0.193	0.040	mg/L	0.200		96.3	85-115			
Duplicate (AH63270-DUP1)				Source: 16G2288-01 Prepared & Analyzed: 08/04/16						
Phosphorus, total	5.65	2.0	mg/L		5.65			0.00	20	
Matrix Spike (AH63270-MS1)				Source: 16G2288-01 Prepared & Analyzed: 08/04/16						
Phosphorus, total	6.96	2.0	mg/L	2.00	5.65	65.3	70-130			QM-4X
Matrix Spike Dup (AH63270-MSD1)				Source: 16G2288-01 Prepared & Analyzed: 08/04/16						
Phosphorus, total	6.89	2.0	mg/L	2.00	5.65	62.0	70-130	0.939	20	QM-4X
Batch AH63297 - Metals Digest										
Blank (AH63297-BLK1)				Prepared: 08/04/16 Analyzed: 08/08/16						
Hardness, Total	ND	5	mg/L							
Duplicate (AH63297-DUP1)				Source: 16G2414-01 Prepared: 08/04/16 Analyzed: 08/09/16						
Hardness, Total	102	5	mg/L		107			4.25	20	
Batch AH63428 - General Prep										
LCS (AH63428-BS1)				Prepared & Analyzed: 08/09/16						
Total Kjeldahl Nitrogen	3.04	1.0	mg/L	2.98		102	80-120			
LCS Dup (AH63428-BSD1)				Prepared & 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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Project: WQ Monitoring
Project Number: [none]

Reported:
08/12/16 08:40

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 AH63428 - General Prep										
Matrix Spike (AH63428-MS1)		Source: 16G2430-01		Prepared: 08/09/16 Analyzed: 08/10/16						
Total Kjeldahl Nitrogen	69.4	1.0	mg/L	22.6	42.7	118	75-125			
Matrix Spike Dup (AH63428-MSD1)		Source: 16G2430-01		Prepared: 08/09/16 Analyzed: 08/10/16						
Total Kjeldahl Nitrogen	70.0	1.0	mg/L	22.6	42.7	121	75-125	1.00	20	
Batch AH63429 - General Preparation										
Blank (AH63429-BLK1)		Prepared & Analyzed: 08/09/16								
Ammonia as NH3	ND	0.50	mg/L							
LCS (AH63429-BS1)		Prepared & Analyzed: 08/09/16								
Ammonia as NH3	5.75	0.50	mg/L	6.10		94.2	90-110			
LCS Dup (AH63429-BSD1)		Prepared & Analyzed: 08/09/16								
Ammonia as NH3	6.07	0.50	mg/L	6.10		99.5	90-110	5.40	10	
Matrix Spike (AH63429-MS1)		Source: 16G2480-03		Prepared & Analyzed: 08/10/16						
Ammonia as NH3	5.75	0.50	mg/L	6.10	ND	94.2	85-115			
Matrix Spike Dup (AH63429-MSD1)		Source: 16G2480-03		Prepared & Analyzed: 08/10/16						
Ammonia as NH3	5.75	0.50	mg/L	6.10	ND	94.2	85-115	0.00	20	

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

Reported:
08/12/16 08:40

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 AG64017 - General Preparation										
Blank (AG64017-BLK1)				Prepared & Analyzed: 07/28/16						
Nitrite as NO2	ND	1.0	mg/L							
Nitrite as N	ND	0.20	mg/L							
Nitrate as NO3	ND	1.0	mg/L							
Nitrate as N	ND	0.20	mg/L							
Sulfate as SO4	ND	0.50	mg/L							
Chloride	ND	0.50	mg/L							
LCS (AG64017-BS1)				Prepared & Analyzed: 07/28/16						
Nitrate as N	5.65	0.20	mg/L	5.56		102	90-110			
Nitrate as NO3	25	1.0	mg/L	24.7		101	90-110			
Nitrite as NO2	18.7	1.0	mg/L	18.2		102	90-110			
Nitrite as N	5.67	0.20	mg/L	5.56		102	90-110			
Sulfate as SO4	22.1	0.50	mg/L	22.2		99.3	90-110			
Chloride	11.4	0.50	mg/L	11.1		103	90-110			
Duplicate (AG64017-DUP1)				Source: 16G2429-01			Prepared & Analyzed: 07/28/16			
Chloride	4.22	0.50	mg/L		4.31			2.23	20	
Nitrite as N	ND	0.20	mg/L		ND				20	
Nitrate as N	ND	0.20	mg/L		ND			9.48	20	
Sulfate as SO4	1.11	0.50	mg/L		1.13			1.87	20	
Nitrate as NO3	ND	1.0	mg/L		ND			9.48	20	
Nitrite as NO2	ND	1.0	mg/L		ND				20	
Matrix Spike (AG64017-MS1)				Source: 16G2429-01			Prepared & Analyzed: 07/28/16			
Nitrate as N	6.06	0.20	mg/L	5.56	ND	108	80-120			
Nitrate as NO3	27	1.0	mg/L	24.7	ND	108	80-120			
Sulfate as SO4	24.1	0.50	mg/L	22.2	1.13	103	80-120			
Chloride	16.1	0.50	mg/L	11.1	4.31	106	80-120			
Nitrite as NO2	18.1	1.0	mg/L	18.2	ND	99.2	80-120			
Nitrite as N	5.49	0.20	mg/L	5.56	ND	98.9	80-120			

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



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

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

Reported:
08/12/16 08:40

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 AG64017 - General Preparation

Matrix Spike (AG64017-MS2)

Source: 16G2404-01

Prepared & Analyzed: 07/28/16

Nitrate as N	5.89	0.20	mg/L	5.56	ND	103	80-120			
Nitrite as NO2	19.2	1.0	mg/L	18.2	ND	104	80-120			
Sulfate as SO4	35.6	0.50	mg/L	22.2	12.7	103	80-120			
Nitrate as NO3	26	1.0	mg/L	24.7	ND	103	80-120			
Nitrite as N	5.82	0.20	mg/L	5.56	ND	104	80-120			
Chloride	15.9	0.50	mg/L	11.1	4.50	102	80-120			

Matrix Spike Dup (AG64017-MSD1)

Source: 16G2429-01

Prepared & Analyzed: 07/28/16

Sulfate as SO4	23.9	0.50	mg/L	22.2	1.13	102	80-120	0.912	20	
Nitrate as N	6.08	0.20	mg/L	5.56	ND	108	80-120	0.306	20	
Chloride	16.0	0.50	mg/L	11.1	4.31	106	80-120	0.111	20	
Nitrite as NO2	17.8	1.0	mg/L	18.2	ND	97.8	80-120	1.39	20	
Nitrite as N	5.42	0.20	mg/L	5.56	ND	97.5	80-120	1.39	20	
Nitrate as NO3	27	1.0	mg/L	24.7	ND	108	80-120	0.306	20	



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500 Laurel Street
Menlo Park, CA 94025

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

Reported:
08/12/16 08:40

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

Company/Name: West Bay Sanitary District		Project ID: WQ Monitoring		Signature below authorizes work under terms stated on reverse side.		Sample Notes 5.0		TAT <input type="radio"/> 1 wk <input type="radio"/> 2 wk (standard)	
Mailing Address: 500 Laurel Street Menlo Park, CA 94025 Project Contact & Email (Hardcopy or PDF to): John Simonetti jsimonetti@westbaysanitary.org Phone/Fax:		Project No: PO#		Site Contact: John Simonetti		Analysis Request		Lab Approval Required for Items	
Field Sampler - Print Name & Signature [Signature]		Sample Collection		Preservative Matrix		2007 - B, Ca, Mg, Na, Al, Fe, Mn, Zn		<input type="radio"/>	
Sample Identification G13104		Date: 7/27 0855 Time:		Ammi Vial: 5 Container: 1 HNO3: 1 H2SO4: 1 HCL: 1 Other: 1		DU pH: x DU BOD: x		<input type="radio"/>	
G13220		Date: 7/27 0910 Time:		Ammi Vial: 5 Container: 1 HNO3: 1 H2SO4: 1 HCL: 1 Other: 1		Ammonia, Phosphorus: x Total Nitrogen: x		<input type="radio"/>	
G13223		Date: 7/27 0820 Time:		Ammi Vial: 5 Container: 1 HNO3: 1 H2SO4: 1 HCL: 1 Other: 1		Sulfate, Chloride, EC, NO2, NO3: x Alkalinity, Bicarbonate: x SAR Adjusted Calculation: x Silica: x TDS: x TSS: x VSS: x Hardness Calc: x		<input type="radio"/>	
G13226		Date: 7/27 0820 Time:		Ammi Vial: 5 Container: 1 HNO3: 1 H2SO4: 1 HCL: 1 Other: 1		Ammonia, Phosphorus: x Total Nitrogen: x		<input type="radio"/>	
Relinquished by: [Signature]		Received by: [Signature]		Date: 7/27 Time: 1730		CDPH Write On EDT Report? Yes <input type="radio"/> No <input type="radio"/>		<input type="radio"/>	
Relinquished by: [Signature]		Received by: [Signature]		Date: 7/27 Time: 1730		State System Number:		<input type="radio"/>	
Relinquished by: [Signature]		Received by: [Signature]		Date: 7/27 Time: 2100		Travel and Site Time: Mileage: Misc. Supplies:		<input type="radio"/>	



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ELAP Certificates 1551, 2728, and 2922

15 August 2016

West Bay Sanitary District

Attn: John Simonetti

500 Laurel Street

Menlo Park, CA 94025

RE: WQ Monitoring

Work Order: 16G2526

Enclosed are the results of analyses for samples received by the laboratory on 07/28/16 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:
08/15/16 11:49

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
G13104 / 072716A	16G2526-01	Water	07/28/16 09:40	07/28/16 21:00
G13220 / 072716B	16G2526-02	Water	07/28/16 10:15	07/28/16 21:00
G13223 / 072716C	16G2526-03	Water	07/28/16 09:15	07/28/16 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:
08/15/16 11:49

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13104 / 072716A (16G2526-01)		Sample Type: Water			Sampled: 07/28/16 09:40			
Metals (Drinking Water) by EPA 200 Series Methods								
Potassium	18 mg/L	1.0	1	AH63301	08/04/16 12:16	08/11/16 20:27	EPA 200.7	
Metals by EPA 200 Series Methods								
Aluminum	0.50 mg/L	0.050	1	AH63301	08/04/16 12:16	08/11/16 20:27	EPA 200.7	
Boron	0.23 mg/L	0.050	1	AH63301	08/04/16 12:16	08/11/16 20:27	EPA 200.7	
Calcium	16 mg/L	1.0	1	AH63301	08/04/16 12:16	08/11/16 20:27	EPA 200.7	
Iron	1.3 mg/L	0.10	1	AH63301	08/04/16 12:16	08/11/16 20:27	EPA 200.7	
Magnesium	6.6 mg/L	1.0	1	AH63301	08/04/16 12:16	08/11/16 20:27	EPA 200.7	
Manganese	0.050 mg/L	0.020	1	AH63301	08/04/16 12:16	08/11/16 20:27	EPA 200.7	
Sodium	48 mg/L	1.0	1	AH63301	08/04/16 12:16	08/11/16 20:27	EPA 200.7	
Zinc	0.19 mg/L	0.020	1	AH63301	08/04/16 12:16	08/11/16 20:27	EPA 200.7	
Conventional Chemistry Parameters by APHA/EPA Methods								
Ammonia as NH3	60 mg/L	0.50	1	AH63531	08/11/16 08:17	08/11/16 17:00	SM4500NH3C	
Bicarbonate	280 mg/L	5.0	1	AH63151	08/04/16 08:00	08/04/16 17:00	SM2320B	
Biochemical Oxygen Demand	360 mg/L	5.0	1	AH63258	07/29/16 14:00	08/03/16 12:30	SM5210B	
pH	7.21 pH Units	1.68	1	AG64056	07/28/16 19:00	07/28/16 19:00	SM4500-H+ B	T-14
Specific Conductance (EC)	770 umhos/cm	20	1	AH63143	07/29/16 16:00	07/29/16 17:00	SM2510B	
Total Dissolved Solids	370 mg/L	10	1	AH63278	08/04/16 11:30	08/05/16 16:44	SM2540C	
Total Suspended Solids	300 mg/L	1.0	1	AH63277	08/04/16 08:24	08/05/16 12:04	SM2540D	
Volatile Suspended Solids	280 mg/L	1.0	1	AH63169	08/01/16 15:18	08/05/16 17:16	EPA 160.4	
Silica	19 mg/L	5.0	5	AH63234	08/03/16 10:00	08/03/16 12:45	SM4500-SiO2 C	
Bicarbonate Alkalinity as CaCO3	230 mg/L	5.0	1	AH63151	08/04/16 08:00	08/04/16 17:00	SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AH63151	08/04/16 08:00	08/04/16 17:00	SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AH63151	08/04/16 08:00	08/04/16 17:00	SM2320B	
Total Alkalinity as CaCO3	230 mg/L	5.0	1	AH63151	08/04/16 08:00	08/04/16 17:00	SM2320B	
Total Kjeldahl Nitrogen	59 mg/L	1.0	1	AH63467	08/10/16 06:29	08/11/16 11:59	SM4500-Norg B	
Total Nitrogen	59 mg/L	1.0	1	AH63266	08/03/16 15:40	08/11/16 15:46	SM4500-N	
Hardness, Total	66 mg/L	5	1	AH63301	08/04/16 12:16	08/11/16 20:27	SM2340B	
Phosphorus, total	7.5 mg/L	2.0	5	AH63370	08/08/16 10:30	08/08/16 12:59	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:
08/15/16 11:49

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13104 / 072716A (16G2526-01)		Sample Type: Water			Sampled: 07/28/16 09:40			
Miscellaneous Physical/Conventional Chemistry Parameters								
Sodium Adsorption Ratio-Adj RNA	2.78 NA		1	AH63301	08/04/16 12:16	08/15/16 06:45	SAR	
Anions by EPA Method 300.0								
Chloride	57 mg/L	5.0	10	AG64043	07/29/16 12:39	07/29/16 12:39	EPA 300.0	
Nitrate as N	ND mg/L	0.20	1	AG64043	07/29/16 12:56	07/29/16 12:56	EPA 300.0	
Nitrate as NO3	ND mg/L	1.0	1	AG64043	07/29/16 12:56	07/29/16 12:56	EPA 300.0	
Nitrite as N	ND mg/L	0.20	1	AG64043	07/29/16 12:56	07/29/16 12:56	EPA 300.0	
Nitrite as NO2	ND mg/L	1.0	1	AG64043	07/29/16 12:56	07/29/16 12:56	EPA 300.0	
Sulfate as SO4	21 mg/L	0.50	1	AG64043	07/29/16 12:56	07/29/16 12:56	EPA 300.0	
G13220 / 072716B (16G2526-02)		Sample Type: Water			Sampled: 07/28/16 10:15			
Metals (Drinking Water) by EPA 200 Series Methods								
Potassium	15 mg/L	1.0	1	AH63301	08/04/16 12:16	08/11/16 20:32	EPA 200.7	
Metals by EPA 200 Series Methods								
Aluminum	0.93 mg/L	0.050	1	AH63301	08/04/16 12:16	08/11/16 20:32	EPA 200.7	
Boron	0.21 mg/L	0.050	1	AH63301	08/04/16 12:16	08/11/16 20:32	EPA 200.7	
Calcium	19 mg/L	1.0	1	AH63301	08/04/16 12:16	08/11/16 20:32	EPA 200.7	
Iron	2.1 mg/L	0.10	1	AH63301	08/04/16 12:16	08/11/16 20:32	EPA 200.7	
Magnesium	10 mg/L	1.0	1	AH63301	08/04/16 12:16	08/11/16 20:32	EPA 200.7	
Manganese	0.059 mg/L	0.020	1	AH63301	08/04/16 12:16	08/11/16 20:32	EPA 200.7	
Sodium	45 mg/L	1.0	1	AH63301	08/04/16 12:16	08/11/16 20:32	EPA 200.7	
Zinc	0.20 mg/L	0.020	1	AH63301	08/04/16 12:16	08/11/16 20:32	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:
08/15/16 11:49

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note	
G13220 / 072716B (16G2526-02)		Sample Type: Water			Sampled: 07/28/16 10:15				
Conventional Chemistry Parameters by APHA/EPA Methods									
Ammonia as NH3	62 mg/L	0.50	1	AH63531	08/11/16 08:17	08/11/16 17:00	SM4500NH3C		
Bicarbonate	270 mg/L	5.0	1	AH63151	08/04/16 08:00	08/04/16 17:00	SM2320B		
Biochemical Oxygen Demand	260 mg/L	5.0	1	AH63258	07/29/16 14:00	08/03/16 12:30	SM5210B		
pH	7.16 pH Units	1.68	1	AG64056	07/28/16 19:00	07/28/16 19:00	SM4500-H+ B	T-14	
Specific Conductance (EC)	840 umhos/cm	20	1	AH63143	07/29/16 16:00	07/29/16 17:00	SM2510B		
Total Dissolved Solids	450 mg/L	10	1	AH63278	08/04/16 11:30	08/05/16 16:44	SM2540C		
Total Suspended Solids	260 mg/L	1.0	1	AH63277	08/04/16 08:24	08/05/16 12:04	SM2540D		
Volatile Suspended Solids	230 mg/L	1.0	1	AH63169	08/01/16 15:18	08/05/16 17:16	EPA 160.4		
Silica	15 mg/L	5.0	5	AH63234	08/03/16 10:00	08/03/16 12:45	SM4500-SiO2 C		
Bicarbonate Alkalinity as CaCO3	220 mg/L	5.0	1	AH63151	08/04/16 08:00	08/04/16 17:00	SM2320B		
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AH63151	08/04/16 08:00	08/04/16 17:00	SM2320B		
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AH63151	08/04/16 08:00	08/04/16 17:00	SM2320B		
Total Alkalinity as CaCO3	220 mg/L	5.0	1	AH63151	08/04/16 08:00	08/04/16 17:00	SM2320B		
Total Kjeldahl Nitrogen	57 mg/L	1.0	1	AH63467	08/11/16 06:29	08/11/16 11:59	SM4500-Norg B		
Total Nitrogen	57 mg/L	1.0	1	AH63266	08/03/16 15:40	08/11/16 15:46	SM4500-N		
Hardness, Total	91 mg/L	5	1	AH63301	08/04/16 12:16	08/11/16 20:32	SM2340B		
Phosphorus, total	7.6 mg/L	2.0	5	AH63370	08/08/16 10:30	08/08/16 12:59	SM4500-P E		
Miscellaneous Physical/Conventional Chemistry Parameters									
Sodium Adsorption Ratio-Adj RNA	2.25 NA		1	AH63301	08/04/16 12:16	08/15/16 06:45	SAR		
Anions by EPA Method 300.0									
Chloride	61 mg/L	10	20	AG64043	07/29/16 13:44	07/29/16 13:44	EPA 300.0		
Nitrate as N	ND mg/L	0.20	1	AG64043	07/29/16 14:00	07/29/16 14:00	EPA 300.0		
Nitrate as NO3	ND mg/L	1.0	1	AG64043	07/29/16 14:00	07/29/16 14:00	EPA 300.0		
Nitrite as N	ND mg/L	0.20	1	AG64043	07/29/16 14:00	07/29/16 14:00	EPA 300.0		
Nitrite as NO2	ND mg/L	1.0	1	AG64043	07/29/16 14:00	07/29/16 14:00	EPA 300.0		
Sulfate as SO4	46 mg/L	10	20	AG64043	07/29/16 13:44	07/29/16 13:44	EPA 300.0		
G13223 / 072716C (16G2526-03)		Sample Type: Water			Sampled: 07/28/16 09:15				
Metals (Drinking Water) by EPA 200 Series Methods									
Potassium	17 mg/L	1.0	1	AH63301	08/04/16 12:16	08/11/16 20:36	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:
08/15/16 11:49

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13223 / 072716C (16G2526-03)		Sample Type: Water			Sampled: 07/28/16 09:15			
Metals by EPA 200 Series Methods								
Aluminum	0.55 mg/L	0.050	1	AH63301	08/04/16 12:16	08/11/16 20:36	EPA 200.7	
Boron	0.23 mg/L	0.050	1	AH63301	08/04/16 12:16	08/11/16 20:36	EPA 200.7	
Calcium	19 mg/L	1.0	1	AH63301	08/04/16 12:16	08/11/16 20:36	EPA 200.7	
Iron	1.6 mg/L	0.10	1	AH63301	08/04/16 12:16	08/11/16 20:36	EPA 200.7	
Magnesium	5.3 mg/L	1.0	1	AH63301	08/04/16 12:16	08/11/16 20:36	EPA 200.7	
Manganese	0.075 mg/L	0.020	1	AH63301	08/04/16 12:16	08/11/16 20:36	EPA 200.7	
Sodium	41 mg/L	1.0	1	AH63301	08/04/16 12:16	08/11/16 20:36	EPA 200.7	
Zinc	0.24 mg/L	0.020	1	AH63301	08/04/16 12:16	08/11/16 20:36	EPA 200.7	
Conventional Chemistry Parameters by APHA/EPA Methods								
Ammonia as NH3	57 mg/L	0.50	1	AH63531	08/11/16 08:17	08/11/16 17:00	SM4500NH3C	
Bicarbonate	260 mg/L	5.0	1	AH63151	08/04/16 08:00	08/04/16 17:00	SM2320B	
Biochemical Oxygen Demand	300 mg/L	5.0	1	AH63258	07/29/16 14:00	08/03/16 12:30	SM5210B	
pH	7.19 pH Units	1.68	1	AG64056	07/28/16 19:00	07/28/16 19:00	SM4500-H+ B	T-14
Specific Conductance (EC)	790 umhos/cm	20	1	AH63143	07/29/16 16:00	07/29/16 17:00	SM2510B	
Total Dissolved Solids	500 mg/L	10	1	AH63278	08/04/16 11:30	08/05/16 16:44	SM2540C	
Total Suspended Solids	130 mg/L	1.0	1	AH63277	08/04/16 08:24	08/05/16 12:04	SM2540D	
Volatile Suspended Solids	120 mg/L	1.0	1	AH63169	08/01/16 15:18	08/05/16 17:16	EPA 160.4	
Silica	16 mg/L	5.0	5	AH63234	08/03/16 10:00	08/03/16 12:45	SM4500-SiO2 C	
Bicarbonate Alkalinity as CaCO3	210 mg/L	5.0	1	AH63151	08/04/16 08:00	08/04/16 17:00	SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AH63151	08/04/16 08:00	08/04/16 17:00	SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AH63151	08/04/16 08:00	08/04/16 17:00	SM2320B	
Total Alkalinity as CaCO3	210 mg/L	5.0	1	AH63151	08/04/16 08:00	08/04/16 17:00	SM2320B	
Total Kjeldahl Nitrogen	49 mg/L	1.0	1	AH63467	08/11/16 06:29	08/11/16 11:59	SM4500-Norg B	
Total Nitrogen	49 mg/L	1.0	1	AH63266	08/03/16 15:40	08/11/16 15:46	SM4500-N	
Hardness, Total	70 mg/L	5	1	AH63301	08/04/16 12:16	08/11/16 20:36	SM2340B	
Phosphorus, total	5.7 mg/L	2.0	5	AH63370	08/08/16 10:30	08/08/16 12:59	SM4500-PE	

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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:
08/15/16 11:49

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13223 / 072716C (16G2526-03)		Sample Type: Water			Sampled: 07/28/16 09:15			
Miscellaneous Physical/Conventional Chemistry Parameters								
Sodium Adsorption Ratio-Adj RNA	2.35 NA		1	AH63301	08/04/16 12:16	08/15/16 06:45	SAR	
Anions by EPA Method 300.0								
Chloride	64 mg/L	10	20	AG64043	07/29/16 14:16	07/29/16 14:16	EPA 300.0	
Nitrate as N	ND mg/L	0.20	1	AG64043	07/29/16 14:33	07/29/16 14:33	EPA 300.0	
Nitrate as NO3	ND mg/L	1.0	1	AG64043	07/29/16 14:33	07/29/16 14:33	EPA 300.0	
Nitrite as N	ND mg/L	0.20	1	AG64043	07/29/16 14:33	07/29/16 14:33	EPA 300.0	
Nitrite as NO2	ND mg/L	1.0	1	AG64043	07/29/16 14:33	07/29/16 14:33	EPA 300.0	
Sulfate as SO4	30 mg/L	0.50	1	AG64043	07/29/16 14:33	07/29/16 14:33	EPA 300.0	



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Project Number: [none]

Reported:
08/15/16 11:49

Metals (Drinking Water) 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 AH63301 - Metals Digest										
Blank (AH63301-BLK1)				Prepared: 08/04/16 Analyzed: 08/11/16						
Potassium	ND	1.0	mg/L							
LCS (AH63301-BS1)				Prepared: 08/04/16 Analyzed: 08/11/16						
Potassium	6.87	1.0	mg/L	8.00		85.8	85-115			
Duplicate (AH63301-DUP1)				Source: 16G2608-01 Prepared: 08/04/16 Analyzed: 08/11/16						
Potassium	ND	1.0	mg/L		ND			4.43	20	
Matrix Spike (AH63301-MS1)				Source: 16G2608-01 Prepared: 08/04/16 Analyzed: 08/11/16						
Potassium	7.66	1.0	mg/L	8.00	ND	87.0	70-130			
Matrix Spike (AH63301-MS2)				Source: 16G2627-01 Prepared: 08/04/16 Analyzed: 08/11/16						
Potassium	9.33	1.0	mg/L	8.00	2.87	80.8	70-130			
Matrix Spike Dup (AH63301-MSD1)				Source: 16G2608-01 Prepared: 08/04/16 Analyzed: 08/11/16						
Potassium	7.80	1.0	mg/L	8.00	ND	88.9	70-130	1.90	20	



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

Reported:
08/15/16 11:49

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 AH63301 - Metals Digest										
Blank (AH63301-BLK1)				Prepared: 08/04/16 Analyzed: 08/11/16						
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 (AH63301-BS1)				Prepared: 08/04/16 Analyzed: 08/11/16						
Aluminum	1.89	0.050	mg/L	2.00		94.6	85-115			
Boron	0.404	0.050	mg/L	0.400		101	85-115			
Calcium	7.97	1.0	mg/L	8.00		99.6	85-115			
Iron	1.93	0.10	mg/L	2.00		96.5	85-115			
Magnesium	8.13	1.0	mg/L	8.00		102	85-115			
Manganese	0.197	0.020	mg/L	0.200		98.7	85-115			
Sodium	7.44	1.0	mg/L	8.00		93.0	85-115			
Zinc	0.205	0.020	mg/L	0.200		102	85-115			
Duplicate (AH63301-DUP1)				Source: 16G2608-01 Prepared: 08/04/16 Analyzed: 08/11/16						
Aluminum	ND	0.050	mg/L		ND			2.59	20	
Boron	0.107	0.050	mg/L		0.100			6.94	20	
Calcium	26.4	1.0	mg/L		26.4			0.172	20	
Iron	ND	0.10	mg/L		ND			2.24	20	
Magnesium	14.8	1.0	mg/L		14.9			0.528	20	
Manganese	ND	0.020	mg/L		ND			2.16	20	
Sodium	13.7	1.0	mg/L		13.8			0.619	20	
Zinc	ND	0.020	mg/L		ND			1.65	20	

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

Reported:
08/15/16 11:49

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 AH63301 - Metals Digest										
Matrix Spike (AH63301-MS1)		Source: 16G2608-01			Prepared: 08/04/16		Analyzed: 08/11/16			
Aluminum	1.92	0.050	mg/L	2.00	ND	93.8	70-130			
Boron	0.500	0.050	mg/L	0.400	0.100	99.8	70-130			
Calcium	35.3	1.0	mg/L	8.00	26.4	111	70-130			
Iron	1.93	0.10	mg/L	2.00	ND	95.1	70-130			
Magnesium	22.0	1.0	mg/L	8.00	14.9	88.9	70-130			
Manganese	0.200	0.020	mg/L	0.200	ND	96.0	70-130			
Sodium	20.5	1.0	mg/L	8.00	13.8	83.9	70-130			
Zinc	0.205	0.020	mg/L	0.200	ND	98.3	70-130			
Matrix Spike (AH63301-MS2)		Source: 16G2627-01			Prepared: 08/04/16		Analyzed: 08/11/16			
Aluminum	3.05	0.050	mg/L	2.00	0.937	106	70-130			
Boron	0.728	0.050	mg/L	0.400	0.324	101	70-130			
Calcium	17.4	1.0	mg/L	8.00	9.25	102	70-130			
Iron	6.53	0.10	mg/L	2.00	4.52	100	70-130			
Magnesium	15.2	1.0	mg/L	8.00	9.03	77.2	70-130			
Manganese	0.418	0.020	mg/L	0.200	0.223	97.5	70-130			
Sodium	14.1	1.0	mg/L	8.00	9.18	61.2	70-130			QM-01
Zinc	0.206	0.020	mg/L	0.200	ND	97.4	70-130			
Matrix Spike Dup (AH63301-MSD1)		Source: 16G2608-01			Prepared: 08/04/16		Analyzed: 08/11/16			
Aluminum	1.99	0.050	mg/L	2.00	ND	97.5	70-130	3.80	20	
Boron	0.520	0.050	mg/L	0.400	0.100	105	70-130	4.02	20	
Calcium	36.3	1.0	mg/L	8.00	26.4	124	70-130	2.93	20	
Iron	2.01	0.10	mg/L	2.00	ND	98.8	70-130	3.85	20	
Magnesium	22.8	1.0	mg/L	8.00	14.9	98.2	70-130	3.32	20	
Manganese	0.208	0.020	mg/L	0.200	ND	100	70-130	4.06	20	
Sodium	21.0	1.0	mg/L	8.00	13.8	90.5	70-130	2.51	20	
Zinc	0.212	0.020	mg/L	0.200	ND	102	70-130	3.36	20	

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500 Laurel Street
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Project Manager: John Simonetti
Project: WQ Monitoring
Project Number: [none]

Reported:
08/15/16 11:49

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 AG64056 - General Preparation										
Duplicate (AG64056-DUP1)		Source: 16G2526-01		Prepared & Analyzed: 07/28/16						
pH	7.18	1.68	pH Units		7.21			0.417	20	
Batch AH63143 - General Preparation										
Duplicate (AH63143-DUP1)		Source: 16G2608-01		Prepared & Analyzed: 07/29/16						
Specific Conductance (EC)	333	20	umhos/cm		336			0.897	5	
Batch AH63151 - General Preparation										
Duplicate (AH63151-DUP1)		Source: 16G2537-07		Prepared & Analyzed: 08/04/16						
Bicarbonate	26.8	5.0	mg/L		26.8			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	
Bicarbonate Alkalinity as CaCO3	22.0	5.0	mg/L		22.0			0.00	20	
Total Alkalinity as CaCO3	22.0	5.0	mg/L		22.0			0.00	20	
Batch AH63169 - General Preparation										
Blank (AH63169-BLK1)				Prepared: 08/01/16 Analyzed: 08/05/16						
Volatile Suspended Solids	ND	1.0	mg/L							
Duplicate (AH63169-DUP1)		Source: 16H0027-01		Prepared: 08/01/16 Analyzed: 08/05/16						
Volatile Suspended Solids	444	1.0	mg/L		429			3.51	30	
Duplicate (AH63169-DUP2)		Source: 16H0027-02		Prepared: 08/01/16 Analyzed: 08/05/16						
Volatile Suspended Solids	282	1.0	mg/L		309			9.17	30	

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Reported:
08/15/16 11:49

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 AH63234 - General Preparation										
Blank (AH63234-BLK1) Prepared & Analyzed: 08/03/16										
Silica	ND	1.0	mg/L							
LCS (AH63234-BS1) Prepared & Analyzed: 08/03/16										
Silica	9.74	1.0	mg/L	10.0		97.4	85-115			
LCS Dup (AH63234-BSD1) Prepared & Analyzed: 08/03/16										
Silica	9.74	1.0	mg/L	10.0		97.4	85-115	0.00	20	
Duplicate (AH63234-DUP1) Source: 16G2526-02 Prepared & Analyzed: 08/03/16										
Silica	15.3	5.0	mg/L		15.3			0.00	20	
Matrix Spike (AH63234-MS1) Source: 16G2526-02 Prepared & Analyzed: 08/03/16										
Silica	38.7	5.0	mg/L	25.0	15.3	93.5	80-120			
Matrix Spike Dup (AH63234-MSD1) Source: 16G2526-02 Prepared & Analyzed: 08/03/16										
Silica	39.3	5.0	mg/L	25.0	15.3	95.9	80-120	1.54	20	
Batch AH63258 - General Preparation										
Blank (AH63258-BLK1) Prepared: 07/29/16 Analyzed: 08/03/16										
Biochemical Oxygen Demand	ND	5.0	mg/L							
Blank (AH63258-BLK2) Prepared: 07/29/16 Analyzed: 08/03/16										
Biochemical Oxygen Demand	ND	5.0	mg/L							
LCS (AH63258-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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Reported:
08/15/16 11:49

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 AH63258 - General Preparation										
Duplicate (AH63258-DUP1) Source: 16G2544-02 Prepared: 07/29/16 Analyzed: 08/03/16										
Biochemical Oxygen Demand	ND	5.0	mg/L		ND				30	
Batch AH63277 - General Preparation										
Blank (AH63277-BLK1) Prepared: 08/04/16 Analyzed: 08/05/16										
Total Suspended Solids	ND	1.0	mg/L							
Duplicate (AH63277-DUP1) Source: 16H0027-01 Prepared: 08/04/16 Analyzed: 08/05/16										
Total Suspended Solids	490	1.0	mg/L		466			5.13	30	
Duplicate (AH63277-DUP2) Source: 16H0027-02 Prepared: 08/04/16 Analyzed: 08/05/16										
Total Suspended Solids	316	1.0	mg/L		342			8.00	30	
Batch AH63278 - General Preparation										
Blank (AH63278-BLK1) Prepared: 08/04/16 Analyzed: 08/05/16										
Total Dissolved Solids	ND	10	mg/L							
Duplicate (AH63278-DUP1) Source: 16G2527-01 Prepared: 08/04/16 Analyzed: 08/05/16										
Total Dissolved Solids	403	10	mg/L		403			0.00	15	
Duplicate (AH63278-DUP2) Source: 16H0127-03 Prepared: 08/04/16 Analyzed: 08/08/16										
Total Dissolved Solids	506	10	mg/L		500			1.19	15	
Batch AH63301 - Metals Digest										
Blank (AH63301-BLK1) Prepared: 08/04/16 Analyzed: 08/11/16										
Hardness, Total	ND	5	mg/L							

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

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AH63301 - Metals Digest										
Duplicate (AH63301-DUP1)		Source: 16G2608-01		Prepared: 08/04/16		Analyzed: 08/11/16				
Hardness, Total	127	5	mg/L		127			0.343	20	
Batch AH63370 - General Prep										
Blank (AH63370-BLK1)				Prepared & Analyzed: 08/08/16						
Phosphorus, total	ND	0.040	mg/L							
LCS (AH63370-BS1)				Prepared & Analyzed: 08/08/16						
Phosphorus, total	0.197	0.040	mg/L	0.200		98.4	85-115			
Duplicate (AH63370-DUP1)		Source: 16G2480-01		Prepared & Analyzed: 08/08/16						
Phosphorus, total	ND	0.040	mg/L		ND			4.46	20	
Matrix Spike (AH63370-MS1)		Source: 16G2480-01		Prepared & Analyzed: 08/08/16						
Phosphorus, total	0.210	0.040	mg/L	0.200	ND	89.6	70-130			
Matrix Spike Dup (AH63370-MSD1)		Source: 16G2480-01		Prepared & Analyzed: 08/08/16						
Phosphorus, total	0.214	0.040	mg/L	0.200	ND	91.6	70-130	1.92	20	
Batch AH63467 - General Prep										
LCS (AH63467-BS1)				Prepared: 08/10/16 Analyzed: 08/11/16						
Total Kjeldahl Nitrogen	2.95	1.0	mg/L	2.98		99.0	80-120			
LCS Dup (AH63467-BSD1)				Prepared: 08/10/16 Analyzed: 08/11/16						
Total Kjeldahl Nitrogen	2.95	1.0	mg/L	2.98		99.0	80-120	0.00	20	

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Project Number: [none]

Reported:
08/15/16 11:49

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 AH63467 - General Prep										
Matrix Spike (AH63467-MS1) Source: 16H0234-02 Prepared & Analyzed: 08/11/16										
Total Kjeldahl Nitrogen	3.04	1.0	mg/L	2.98	ND	102	75-125			
Matrix Spike Dup (AH63467-MSD1) Source: 16H0234-02 Prepared & Analyzed: 08/11/16										
Total Kjeldahl Nitrogen	3.04	1.0	mg/L	2.98	ND	102	75-125	0.00	20	
Batch AH63531 - General Preparation										
Blank (AH63531-BLK1) Prepared & Analyzed: 08/11/16										
Ammonia as NH3	ND	0.50	mg/L							
LCS (AH63531-BS1) Prepared & Analyzed: 08/11/16										
Ammonia as NH3	6.07	0.50	mg/L	6.10		99.5	90-110			
LCS Dup (AH63531-BSD1) Prepared & Analyzed: 08/11/16										
Ammonia as NH3	5.96	0.50	mg/L	6.10		97.7	90-110	1.76	10	

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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:
08/15/16 11:49

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 AG64043 - General Preparation										
Blank (AG64043-BLK1)				Prepared & Analyzed: 07/29/16						
Nitrate as NO3	ND	1.0	mg/L							
Nitrite as N	ND	0.20	mg/L							
Nitrite as NO2	ND	1.0	mg/L							
Chloride	ND	0.50	mg/L							
Nitrate as N	ND	0.20	mg/L							
Sulfate as SO4	ND	0.50	mg/L							
LCS (AG64043-BS1)				Prepared & Analyzed: 07/29/16						
Nitrite as N	5.68	0.20	mg/L	5.56		102	90-110			
Nitrate as N	5.59	0.20	mg/L	5.56		101	90-110			
Nitrite as NO2	18.7	1.0	mg/L	18.2		103	90-110			
Sulfate as SO4	21.9	0.50	mg/L	22.2		98.5	90-110			
Nitrate as NO3	25	1.0	mg/L	24.7		100	90-110			
Chloride	11.3	0.50	mg/L	11.1		102	90-110			
Duplicate (AG64043-DUP1)				Source: 16G2541-01			Prepared & Analyzed: 07/29/16			
Nitrite as N	ND	0.20	mg/L		ND				20	
Sulfate as SO4	6.18	0.50	mg/L		6.29			1.64	20	
Chloride	6.52	0.50	mg/L		6.50			0.184	20	
Nitrite as NO2	ND	1.0	mg/L		ND				20	
Nitrate as N	0.777	0.20	mg/L		0.787			1.36	20	
Nitrate as NO3	3.4	1.0	mg/L		3.5			1.36	20	
Matrix Spike (AG64043-MS1)				Source: 16G2541-01			Prepared & Analyzed: 07/29/16			
Nitrite as NO2	3.81	1.0	mg/L	18.2	ND	20.9	80-120			QM-05
Nitrate as NO3	30	1.0	mg/L	24.7	3.5	107	80-120			
Chloride	18.1	0.50	mg/L	11.1	6.50	105	80-120			
Nitrite as N	1.16	0.20	mg/L	5.56	ND	20.9	80-120			QM-05
Nitrate as N	6.74	0.20	mg/L	5.56	0.787	107	80-120			
Sulfate as SO4	30.4	0.50	mg/L	22.2	6.29	108	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: [none]

Reported:
08/15/16 11:49

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 AG64043 - General Preparation										
Matrix Spike (AG64043-MS2)		Source: 16G2608-01			Prepared & Analyzed: 07/29/16					
Chloride	20.0	2.5	mg/L	11.1	9.13	97.8	80-120			
Nitrite as N	5.36	1.0	mg/L	5.56	ND	96.4	80-120			
Nitrate as N	8.02	1.0	mg/L	5.56	2.67	96.3	80-120			
Nitrite as NO2	17.6	5.0	mg/L	18.2	ND	96.7	80-120			
Sulfate as SO4	36.1	2.5	mg/L	22.2	16.9	86.6	80-120			
Nitrate as NO3	36	5.0	mg/L	24.7	12	96.1	80-120			
Matrix Spike Dup (AG64043-MSD1)		Source: 16G2541-01			Prepared & Analyzed: 07/29/16					
Nitrite as N	1.17	0.20	mg/L	5.56	ND	21.0	80-120	0.764	20	QM-05
Nitrite as NO2	3.84	1.0	mg/L	18.2	ND	21.1	80-120	0.764	20	QM-05
Nitrate as N	6.64	0.20	mg/L	5.56	0.787	105	80-120	1.56	20	
Chloride	17.9	0.50	mg/L	11.1	6.50	103	80-120	1.27	20	
Nitrate as NO3	29	1.0	mg/L	24.7	3.5	105	80-120	1.56	20	
Sulfate as SO4	30.0	0.50	mg/L	22.2	6.29	107	80-120	1.37	20	



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

Reported:
08/15/16 11:49

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.
- 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

17 August 2016

West Bay Sanitary District

Attn: John Simonetti

500 Laurel Street

Menlo Park, CA 94025

RE: WQ Monitoring

Work Order: 16H0027

Enclosed are the results of analyses for samples received by the laboratory on 08/01/16 08:00. 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:
08/17/16 09:19

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
G13104 / 072816A	16H0027-01	Water	07/29/16 08:30	08/01/16 08:00
G13220 / 072816B	16H0027-02	Water	07/29/16 09:00	08/01/16 08:00
G13223 / 072816C	16H0027-03	Water	07/29/16 08:10	08/01/16 08:00



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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:
08/17/16 09:19

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13104 / 072816A (16H0027-01)		Sample Type: Water			Sampled: 07/29/16 08:30			
Metals (Drinking Water) by EPA 200 Series Methods								
Potassium	18 mg/L	1.0	1	AH63358	08/05/16 14:52	08/12/16 18:41	EPA 200.7	
Metals by EPA 200 Series Methods								
Aluminum	0.54 mg/L	0.050	1	AH63358	08/05/16 14:52	08/12/16 18:41	EPA 200.7	
Boron	0.12 mg/L	0.050	1	AH63358	08/05/16 14:52	08/12/16 18:41	EPA 200.7	
Calcium	18 mg/L	1.0	1	AH63358	08/05/16 14:52	08/12/16 18:41	EPA 200.7	
Iron	1.6 mg/L	0.10	1	AH63358	08/05/16 14:52	08/12/16 18:41	EPA 200.7	
Magnesium	5.0 mg/L	1.0	1	AH63358	08/05/16 14:52	08/12/16 18:41	EPA 200.7	
Manganese	0.088 mg/L	0.020	1	AH63358	08/05/16 14:52	08/12/16 18:41	EPA 200.7	
Sodium	61 mg/L	1.0	1	AH63358	08/05/16 14:52	08/12/16 18:41	EPA 200.7	
Zinc	0.26 mg/L	0.020	1	AH63358	08/05/16 14:52	08/12/16 18:41	EPA 200.7	
Conventional Chemistry Parameters by APHA/EPA Methods								
Ammonia as NH3	79 mg/L	0.50	1	AH63582	08/12/16 08:07	08/12/16 17:00	SM4500NH3C	
Bicarbonate	370 mg/L	5.0	1	AH63151	08/04/16 08:00	08/04/16 17:00	SM2320B	
Biochemical Oxygen Demand	500 mg/L	5.0	1	AH63258	07/29/16 17:40	08/03/16 12:30	SM5210B	
pH	7.24 pH Units	1.68	1	AH63244	08/01/16 15:00	08/01/16 15:00	SM4500-H+ B	T-14
Specific Conductance (EC)	1000 umhos/cm	20	1	AH63216	08/01/16 16:00	08/01/16 17:00	SM2510B	
Total Dissolved Solids	440 mg/L	10	1	AH63278	08/04/16 11:30	08/05/16 16:44	SM2540C	
Total Suspended Solids	470 mg/L	1.0	1	AH63277	08/04/16 08:24	08/05/16 12:04	SM2540D	
Volatile Suspended Solids	430 mg/L	1.0	1	AH63169	08/01/16 15:18	08/05/16 17:16	EPA 160.4	
Silica	18 mg/L	5.0	5	AH63234	08/03/16 10:00	08/03/16 12:45	SM4500-SiO2 C	
Bicarbonate Alkalinity as CaCO3	300 mg/L	5.0	1	AH63151	08/04/16 08:00	08/04/16 17:00	SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AH63151	08/04/16 08:00	08/04/16 17:00	SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AH63151	08/04/16 08:00	08/04/16 17:00	SM2320B	
Total Alkalinity as CaCO3	300 mg/L	5.0	1	AH63151	08/04/16 08:00	08/04/16 17:00	SM2320B	
Total Kjeldahl Nitrogen	76 mg/L	1.0	1	AH63467	08/11/16 06:29	08/12/16 09:05	SM4500-Norg B	
Total Nitrogen	76 mg/L	1.0	1	AH63266	08/03/16 15:40	08/15/16 13:12	SM4500-N	
Hardness, Total	65 mg/L	5	1	AH63358	08/05/16 14:52	08/12/16 18:41	SM2340B	
Phosphorus, total	14 mg/L	2.0	5	AH63630	08/15/16 08:00	08/15/16 12:53	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:
08/17/16 09:19

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13104 / 072816A (16H0027-01)		Sample Type: Water			Sampled: 07/29/16 08:30			
Miscellaneous Physical/Conventional Chemistry Parameters								
Sodium Adsorption Ratio-Adj RNA	3.87 NA		1	AH63358	08/05/16 14:52	08/15/16 13:03	SAR	
Anions by EPA Method 300.0								
Chloride	70 mg/L	10	20	AH63170	08/01/16 15:20	08/01/16 15:20	EPA 300.0	
Nitrate as N	ND mg/L	0.20	1	AH63170	08/01/16 13:27	08/01/16 13:27	EPA 300.0	T-5
Nitrate as NO3	ND mg/L	1.0	1	AH63170	08/01/16 13:27	08/01/16 13:27	EPA 300.0	T-5
Nitrite as N	ND mg/L	0.20	1	AH63170	08/01/16 13:27	08/01/16 13:27	EPA 300.0	T-5
Nitrite as NO2	ND mg/L	1.0	1	AH63170	08/01/16 13:27	08/01/16 13:27	EPA 300.0	T-5
Sulfate as SO4	31 mg/L	0.50	1	AH63170	08/01/16 13:27	08/01/16 13:27	EPA 300.0	
G13220 / 072816B (16H0027-02)		Sample Type: Water			Sampled: 07/29/16 09:00			
Metals (Drinking Water) by EPA 200 Series Methods								
Potassium	18 mg/L	1.0	1	AH63358	08/05/16 14:52	08/12/16 18:46	EPA 200.7	
Metals by EPA 200 Series Methods								
Aluminum	1.3 mg/L	0.050	1	AH63358	08/05/16 14:52	08/12/16 18:46	EPA 200.7	
Boron	0.23 mg/L	0.050	1	AH63358	08/05/16 14:52	08/12/16 18:46	EPA 200.7	
Calcium	23 mg/L	1.0	1	AH63358	08/05/16 14:52	08/12/16 18:46	EPA 200.7	
Iron	3.2 mg/L	0.10	1	AH63358	08/05/16 14:52	08/12/16 18:46	EPA 200.7	
Magnesium	10 mg/L	1.0	1	AH63358	08/05/16 14:52	08/12/16 18:46	EPA 200.7	
Manganese	0.065 mg/L	0.020	1	AH63358	08/05/16 14:52	08/12/16 18:46	EPA 200.7	
Sodium	76 mg/L	1.0	1	AH63358	08/05/16 14:52	08/12/16 18:46	EPA 200.7	
Zinc	0.26 mg/L	0.020	1	AH63358	08/05/16 14:52	08/12/16 18:46	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:
08/17/16 09:19

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note	
G13220 / 072816B (16H0027-02)		Sample Type: Water			Sampled: 07/29/16 09:00				
Conventional Chemistry Parameters by APHA/EPA Methods									
Ammonia as NH3	60 mg/L	0.50	1	AH63582	08/12/16 08:07	08/12/16 17:00	SM4500NH3C		
Bicarbonate	290 mg/L	5.0	1	AH63151	08/04/16 08:00	08/04/16 17:00	SM2320B		
Biochemical Oxygen Demand	300 mg/L	5.0	1	AH63258	07/29/16 17:40	08/03/16 12:30	SM5210B		
pH	7.18 pH Units	1.68	1	AH63244	08/01/16 15:00	08/01/16 15:00	SM4500-H+ B	T-14	
Specific Conductance (EC)	950 umhos/cm	20	1	AH63216	08/01/16 16:00	08/01/16 17:00	SM2510B		
Total Dissolved Solids	460 mg/L	10	1	AH63278	08/04/16 11:30	08/05/16 16:44	SM2540C		
Total Suspended Solids	340 mg/L	1.0	1	AH63277	08/04/16 08:24	08/05/16 12:04	SM2540D		
Volatile Suspended Solids	310 mg/L	1.0	1	AH63169	08/01/16 15:18	08/05/16 17:16	EPA 160.4		
Silica	17 mg/L	5.0	5	AH63234	08/03/16 10:00	08/03/16 12:45	SM4500-SiO2 C		
Bicarbonate Alkalinity as CaCO3	240 mg/L	5.0	1	AH63151	08/04/16 08:00	08/04/16 17:00	SM2320B		
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AH63151	08/04/16 08:00	08/04/16 17:00	SM2320B		
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AH63151	08/04/16 08:00	08/04/16 17:00	SM2320B		
Total Alkalinity as CaCO3	240 mg/L	5.0	1	AH63151	08/04/16 08:00	08/04/16 17:00	SM2320B		
Total Kjeldahl Nitrogen	55 mg/L	1.0	1	AH63467	08/11/16 06:29	08/12/16 09:05	SM4500-Norg B		
Total Nitrogen	55 mg/L	1.0	1	AH63266	08/03/16 15:40	08/15/16 13:12	SM4500-N		
Hardness, Total	101 mg/L	5	1	AH63358	08/05/16 14:52	08/12/16 18:46	SM2340B		
Phosphorus, total	7.6 mg/L	2.0	5	AH63630	08/15/16 08:00	08/15/16 12:53	SM4500-PE		
Miscellaneous Physical/Conventional Chemistry Parameters									
Sodium Adsorption Ratio-Adj RNA	3.64 NA		1	AH63358	08/05/16 14:52	08/15/16 13:03	SAR		
Anions by EPA Method 300.0									
Chloride	73 mg/L	10	20	AH63170	08/01/16 15:36	08/01/16 15:36	EPA 300.0		
Nitrate as N	ND mg/L	0.20	1	AH63170	08/01/16 13:44	08/01/16 13:44	EPA 300.0	T-5	
Nitrate as NO3	ND mg/L	1.0	1	AH63170	08/01/16 13:44	08/01/16 13:44	EPA 300.0	T-5	
Nitrite as N	ND mg/L	0.20	1	AH63170	08/01/16 13:44	08/01/16 13:44	EPA 300.0	T-5	
Nitrite as NO2	ND mg/L	1.0	1	AH63170	08/01/16 13:44	08/01/16 13:44	EPA 300.0	T-5	
Sulfate as SO4	66 mg/L	10	20	AH63170	08/01/16 15:36	08/01/16 15:36	EPA 300.0		
G13223 / 072816C (16H0027-03)		Sample Type: Water			Sampled: 07/29/16 08:10				
Metals (Drinking Water) by EPA 200 Series Methods									
Potassium	14 mg/L	1.0	1	AH63358	08/05/16 14:52	08/12/16 18:50	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:
08/17/16 09:19

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13223 / 072816C (16H0027-03)		Sample Type: Water			Sampled: 07/29/16 08:10			
Metals by EPA 200 Series Methods								
Aluminum	0.56 mg/L	0.050	1	AH63358	08/05/16 14:52	08/12/16 18:50	EPA 200.7	
Boron	0.18 mg/L	0.050	1	AH63358	08/05/16 14:52	08/12/16 18:50	EPA 200.7	
Calcium	20 mg/L	1.0	1	AH63358	08/05/16 14:52	08/12/16 18:50	EPA 200.7	
Iron	1.4 mg/L	0.10	1	AH63358	08/05/16 14:52	08/12/16 18:50	EPA 200.7	
Magnesium	9.7 mg/L	1.0	1	AH63358	08/05/16 14:52	08/12/16 18:50	EPA 200.7	
Manganese	0.052 mg/L	0.020	1	AH63358	08/05/16 14:52	08/12/16 18:50	EPA 200.7	
Sodium	54 mg/L	1.0	1	AH63358	08/05/16 14:52	08/12/16 18:50	EPA 200.7	
Zinc	0.16 mg/L	0.020	1	AH63358	08/05/16 14:52	08/12/16 18:50	EPA 200.7	
Conventional Chemistry Parameters by APHA/EPA Methods								
Ammonia as NH3	65 mg/L	0.50	1	AH63582	08/12/16 08:07	08/12/16 17:00	SM4500NH3C	
Bicarbonate	290 mg/L	5.0	1	AH63151	08/04/16 08:00	08/04/16 17:00	SM2320B	
Biochemical Oxygen Demand	200 mg/L	5.0	1	AH63258	07/29/16 17:40	08/03/16 12:30	SM5210B	
pH	7.19 pH Units	1.68	1	AH63244	08/01/16 15:00	08/01/16 15:00	SM4500-H+ B	T-14
Specific Conductance (EC)	910 umhos/cm	20	1	AH63216	08/01/16 16:00	08/01/16 17:00	SM2510B	
Total Dissolved Solids	390 mg/L	10	1	AH63278	08/04/16 11:30	08/05/16 16:44	SM2540C	
Total Suspended Solids	220 mg/L	1.0	1	AH63277	08/04/16 08:24	08/05/16 12:04	SM2540D	
Volatile Suspended Solids	210 mg/L	1.0	1	AH63169	08/01/16 15:18	08/05/16 17:16	EPA 160.4	
Silica	15 mg/L	5.0	5	AH63234	08/03/16 10:00	08/03/16 12:45	SM4500-SiO2 C	
Bicarbonate Alkalinity as CaCO3	240 mg/L	5.0	1	AH63151	08/04/16 08:00	08/04/16 17:00	SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AH63151	08/04/16 08:00	08/04/16 17:00	SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AH63151	08/04/16 08:00	08/04/16 17:00	SM2320B	
Total Alkalinity as CaCO3	240 mg/L	5.0	1	AH63151	08/04/16 08:00	08/04/16 17:00	SM2320B	
Total Kjeldahl Nitrogen	64 mg/L	1.0	1	AH63467	08/12/16 06:29	08/15/16 09:49	SM4500-Norg B	
Total Nitrogen	64 mg/L	1.0	1	AH63266	08/03/16 15:40	08/15/16 13:12	SM4500-N	
Hardness, Total	90 mg/L	5	1	AH63358	08/05/16 14:52	08/12/16 18:50	SM2340B	
Phosphorus, total	8.2 mg/L	2.0	5	AH63630	08/15/16 08:00	08/15/16 12:53	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:
08/17/16 09:19

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13223 / 072816C (16H0027-03)		Sample Type: Water			Sampled: 07/29/16 08:10			
Miscellaneous Physical/Conventional Chemistry Parameters								
Sodium Adsorption Ratio-Adj RNA	2.75 NA		1	AH63358	08/05/16 14:52	08/15/16 13:03	SAR	
Anions by EPA Method 300.0								
Chloride	59 mg/L	10	20	AH63170	08/01/16 15:52	08/01/16 15:52	EPA 300.0	
Nitrate as N	ND mg/L	0.20	1	AH63170	08/01/16 14:00	08/01/16 14:00	EPA 300.0	T-5
Nitrate as NO3	ND mg/L	1.0	1	AH63170	08/01/16 14:00	08/01/16 14:00	EPA 300.0	T-5
Nitrite as N	ND mg/L	0.20	1	AH63170	08/01/16 14:00	08/01/16 14:00	EPA 300.0	T-5
Nitrite as NO2	ND mg/L	1.0	1	AH63170	08/01/16 14:00	08/01/16 14:00	EPA 300.0	T-5
Sulfate as SO4	68 mg/L	10	20	AH63170	08/01/16 15:52	08/01/16 15:52	EPA 300.0	



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Reported:
08/17/16 09:19

Metals (Drinking Water) 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 AH63358 - Metals Digest										
Blank (AH63358-BLK1)				Prepared: 08/05/16 Analyzed: 08/10/16						
Potassium	ND	1.0	mg/L							
LCS (AH63358-BS1)				Prepared: 08/05/16 Analyzed: 08/10/16						
Potassium	6.91	1.0	mg/L	8.00		86.4	85-115			
Duplicate (AH63358-DUP1)				Source: 16H0497-01 Prepared: 08/05/16 Analyzed: 08/10/16						
Potassium	10.2	1.0	mg/L		10.1			0.366	20	
Matrix Spike (AH63358-MS1)				Source: 16H0497-01 Prepared: 08/05/16 Analyzed: 08/10/16						
Potassium	15.2	1.0	mg/L	8.00	10.1	63.5	70-130			QM-01
Matrix Spike (AH63358-MS2)				Source: 16H0602-01 Prepared: 08/05/16 Analyzed: 08/10/16						
Potassium	7.90	1.0	mg/L	8.00	ND	88.1	70-130			
Matrix Spike Dup (AH63358-MSD1)				Source: 16H0497-01 Prepared: 08/05/16 Analyzed: 08/10/16						
Potassium	16.1	1.0	mg/L	8.00	10.1	74.4	70-130	5.56	20	



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Project: WQ Monitoring
Project Number: [none]

Reported:
08/17/16 09:19

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 AH63358 - Metals Digest										
Blank (AH63358-BLK1)				Prepared: 08/05/16 Analyzed: 08/10/16						
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 (AH63358-BS1)				Prepared: 08/05/16 Analyzed: 08/10/16						
Aluminum	1.82	0.050	mg/L	2.00		91.1	85-115			
Boron	0.400	0.050	mg/L	0.400		99.9	85-115			
Calcium	7.19	1.0	mg/L	8.00		89.8	85-115			
Iron	1.88	0.10	mg/L	2.00		94.0	85-115			
Magnesium	7.39	1.0	mg/L	8.00		92.4	85-115			
Manganese	0.188	0.020	mg/L	0.200		94.0	85-115			
Sodium	7.59	1.0	mg/L	8.00		94.9	85-115			
Zinc	0.184	0.020	mg/L	0.200		92.2	85-115			
Duplicate (AH63358-DUP1)				Source: 16H0497-01 Prepared: 08/05/16 Analyzed: 08/10/16						
Aluminum	0.0616	0.050	mg/L		0.0558			9.97	20	
Boron	0.499	0.050	mg/L		0.495			0.886	20	
Calcium	335	1.0	mg/L		331			1.14	20	
Iron	0.522	0.10	mg/L		0.522			0.0534	20	
Magnesium	159	1.0	mg/L		157			1.18	20	
Manganese	0.736	0.020	mg/L		0.730			0.899	20	
Sodium	329	1.0	mg/L		324			1.34	20	
Zinc	ND	0.020	mg/L		ND				20	

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

Reported:
08/17/16 09:19

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 AH63358 - Metals Digest										
Matrix Spike (AH63358-MS1)		Source: 16H0497-01			Prepared: 08/05/16		Analyzed: 08/10/16			
Aluminum	1.96	0.050	mg/L	2.00	0.0558	95.0	70-130			
Boron	0.848	0.050	mg/L	0.400	0.495	88.4	70-130			
Calcium	323	1.0	mg/L	8.00	331	NR	70-130			QM-4X
Iron	2.27	0.10	mg/L	2.00	0.522	87.4	70-130			
Magnesium	156	1.0	mg/L	8.00	157	NR	70-130			QM-4X
Manganese	0.901	0.020	mg/L	0.200	0.730	85.4	70-130			
Sodium	306	1.0	mg/L	8.00	324	NR	70-130			QM-4X
Zinc	0.188	0.020	mg/L	0.200	ND	93.9	70-130			
Matrix Spike (AH63358-MS2)		Source: 16H0602-01			Prepared: 08/05/16		Analyzed: 08/10/16			
Aluminum	1.85	0.050	mg/L	2.00	ND	92.7	70-130			
Boron	0.398	0.050	mg/L	0.400	ND	94.0	70-130			
Calcium	10.4	1.0	mg/L	8.00	3.16	90.3	70-130			
Iron	1.91	0.10	mg/L	2.00	ND	94.4	70-130			
Magnesium	8.49	1.0	mg/L	8.00	1.05	93.0	70-130			
Manganese	0.202	0.020	mg/L	0.200	ND	93.9	70-130			
Sodium	23.6	1.0	mg/L	8.00	16.3	92.0	70-130			
Zinc	0.188	0.020	mg/L	0.200	ND	94.1	70-130			
Matrix Spike Dup (AH63358-MSD1)		Source: 16H0497-01			Prepared: 08/05/16		Analyzed: 08/10/16			
Aluminum	1.96	0.050	mg/L	2.00	0.0558	95.0	70-130	0.0209	20	
Boron	0.866	0.050	mg/L	0.400	0.495	92.8	70-130	2.07	20	
Calcium	334	1.0	mg/L	8.00	331	33.4	70-130	3.17	20	QM-4X
Iron	2.29	0.10	mg/L	2.00	0.522	88.4	70-130	0.936	20	
Magnesium	164	1.0	mg/L	8.00	157	82.6	70-130	5.10	20	
Manganese	0.902	0.020	mg/L	0.200	0.730	85.9	70-130	0.121	20	
Sodium	327	1.0	mg/L	8.00	324	37.1	70-130	6.74	20	QM-4X
Zinc	0.189	0.020	mg/L	0.200	ND	94.7	70-130	0.870	20	

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

Reported:
08/17/16 09:19

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 AH63151 - General Preparation										
Duplicate (AH63151-DUP1)		Source: 16G2537-07			Prepared & Analyzed: 08/04/16					
Bicarbonate	26.8	5.0	mg/L		26.8			0.00	20	
Total Alkalinity as CaCO ₃	22.0	5.0	mg/L		22.0			0.00	20	
Hydroxide Alkalinity as CaCO ₃	ND	5.0	mg/L		ND				20	
Carbonate Alkalinity as CaCO ₃	ND	5.0	mg/L		ND				20	
Bicarbonate Alkalinity as CaCO ₃	22.0	5.0	mg/L		22.0			0.00	20	
Batch AH63169 - General Preparation										
Blank (AH63169-BLK1)					Prepared: 08/01/16 Analyzed: 08/05/16					
Volatile Suspended Solids	ND	1.0	mg/L							
Duplicate (AH63169-DUP1)		Source: 16H0027-01			Prepared: 08/01/16 Analyzed: 08/05/16					
Volatile Suspended Solids	444	1.0	mg/L		429			3.51	30	
Duplicate (AH63169-DUP2)		Source: 16H0027-02			Prepared: 08/01/16 Analyzed: 08/05/16					
Volatile Suspended Solids	282	1.0	mg/L		309			9.17	30	
Batch AH63216 - General Preparation										
Duplicate (AH63216-DUP1)		Source: 16H0086-01			Prepared & Analyzed: 08/01/16					
Specific Conductance (EC)	346	20	umhos/cm		352			1.72	5	
Batch AH63234 - General Preparation										
Blank (AH63234-BLK1)					Prepared & Analyzed: 08/03/16					
Silica	ND	1.0	mg/L							



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Reported:
08/17/16 09:19

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 AH63234 - General Preparation										
LCS (AH63234-BS1)				Prepared & Analyzed: 08/03/16						
Silica	9.74	1.0	mg/L	10.0		97.4	85-115			
LCS Dup (AH63234-BSD1)				Prepared & Analyzed: 08/03/16						
Silica	9.74	1.0	mg/L	10.0		97.4	85-115	0.00	20	
Duplicate (AH63234-DUP1)				Source: 16G2526-02 Prepared & Analyzed: 08/03/16						
Silica	15.3	5.0	mg/L		15.3			0.00	20	
Matrix Spike (AH63234-MS1)				Source: 16G2526-02 Prepared & Analyzed: 08/03/16						
Silica	38.7	5.0	mg/L	25.0	15.3	93.5	80-120			
Matrix Spike Dup (AH63234-MSD1)				Source: 16G2526-02 Prepared & Analyzed: 08/03/16						
Silica	39.3	5.0	mg/L	25.0	15.3	95.9	80-120	1.54	20	
Batch AH63244 - General Preparation										
Duplicate (AH63244-DUP1)				Source: 16H0027-01 Prepared & Analyzed: 08/01/16						
pH	7.21	1.68	pH Units		7.24			0.415	20	
Batch AH63258 - General Preparation										
Blank (AH63258-BLK1)				Prepared: 07/29/16 Analyzed: 08/03/16						
Biochemical Oxygen Demand	ND	5.0	mg/L							
Blank (AH63258-BLK2)				Prepared: 07/29/16 Analyzed: 08/03/16						
Biochemical Oxygen Demand	ND	5.0	mg/L							

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

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AH63258 - General Preparation										
LCS (AH63258-BS1)					Prepared: 07/27/16 Analyzed: 08/01/16					
Biochemical Oxygen Demand	218	5.0	mg/L	200		109	84-115			
Duplicate (AH63258-DUP1)					Source: 16G2544-02 Prepared: 07/29/16 Analyzed: 08/03/16					
Biochemical Oxygen Demand	ND	5.0	mg/L		ND				30	
Batch AH63277 - General Preparation										
Blank (AH63277-BLK1)					Prepared: 08/04/16 Analyzed: 08/05/16					
Total Suspended Solids	ND	1.0	mg/L							
Duplicate (AH63277-DUP1)					Source: 16H0027-01 Prepared: 08/04/16 Analyzed: 08/05/16					
Total Suspended Solids	490	1.0	mg/L		466			5.13	30	
Duplicate (AH63277-DUP2)					Source: 16H0027-02 Prepared: 08/04/16 Analyzed: 08/05/16					
Total Suspended Solids	316	1.0	mg/L		342			8.00	30	
Batch AH63278 - General Preparation										
Blank (AH63278-BLK1)					Prepared: 08/04/16 Analyzed: 08/05/16					
Total Dissolved Solids	ND	10	mg/L							
Duplicate (AH63278-DUP1)					Source: 16G2527-01 Prepared: 08/04/16 Analyzed: 08/05/16					
Total Dissolved Solids	403	10	mg/L		403			0.00	15	
Duplicate (AH63278-DUP2)					Source: 16H0127-03 Prepared: 08/04/16 Analyzed: 08/08/16					
Total Dissolved Solids	506	10	mg/L		500			1.19	15	

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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 AH63358 - Metals Digest										
Blank (AH63358-BLK1)				Prepared: 08/05/16 Analyzed: 08/10/16						
Hardness, Total	ND	5	mg/L							
Duplicate (AH63358-DUP1)				Source: 16H0497-01 Prepared: 08/05/16 Analyzed: 08/10/16						
Hardness, Total	1490	5	mg/L		1470			1.16	20	
Batch AH63467 - General Prep										
LCS (AH63467-BS1)				Prepared: 08/10/16 Analyzed: 08/11/16						
Total Kjeldahl Nitrogen	2.95	1.0	mg/L	2.98		99.0	80-120			
LCS Dup (AH63467-BSD1)				Prepared: 08/10/16 Analyzed: 08/11/16						
Total Kjeldahl Nitrogen	2.95	1.0	mg/L	2.98		99.0	80-120	0.00	20	
Matrix Spike (AH63467-MS1)				Source: 16H0234-02 Prepared & Analyzed: 08/11/16						
Total Kjeldahl Nitrogen	3.04	1.0	mg/L	2.98	ND	102	75-125			
Matrix Spike Dup (AH63467-MSD1)				Source: 16H0234-02 Prepared & Analyzed: 08/11/16						
Total Kjeldahl Nitrogen	3.04	1.0	mg/L	2.98	ND	102	75-125	0.00	20	
Batch AH63582 - General Preparation										
Blank (AH63582-BLK1)				Prepared & Analyzed: 08/15/16						
Ammonia as NH3	ND	0.50	mg/L							
LCS (AH63582-BS1)				Prepared & Analyzed: 08/15/16						
Ammonia as NH3	6.07	0.50	mg/L	6.10		99.5	90-110			

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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 AH63582 - General Preparation										
LCS Dup (AH63582-BSD1)				Prepared & Analyzed: 08/15/16						
Ammonia as NH3	5.75	0.50	mg/L	6.10		94.2	90-110	5.40	10	
Matrix Spike (AH63582-MS1)				Source: 16H0556-02 Prepared & Analyzed: 08/15/16						
Ammonia as NH3	5.85	0.50	mg/L	6.10	ND	96.0	85-115			
Matrix Spike Dup (AH63582-MSD1)				Source: 16H0556-02 Prepared & Analyzed: 08/15/16						
Ammonia as NH3	5.75	0.50	mg/L	6.10	ND	94.2	85-115	1.83	20	
Batch AH63630 - General Prep										
Blank (AH63630-BLK1)				Prepared & Analyzed: 08/15/16						
Phosphorus, total	ND	0.040	mg/L							
LCS (AH63630-BS1)				Prepared & Analyzed: 08/15/16						
Phosphorus, total	0.200	0.040	mg/L	0.200		99.9	85-115			
Duplicate (AH63630-DUP1)				Source: 16H0234-01 Prepared & Analyzed: 08/15/16						
Phosphorus, total	ND	0.040	mg/L		ND			0.00	20	
Matrix Spike (AH63630-MS1)				Source: 16H0234-01 Prepared & Analyzed: 08/15/16						
Phosphorus, total	0.210	0.040	mg/L	0.200	ND	88.5	70-130			
Matrix Spike Dup (AH63630-MSD1)				Source: 16H0234-01 Prepared & Analyzed: 08/15/16						
Phosphorus, total	0.212	0.040	mg/L	0.200	ND	89.2	70-130	0.616	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:
08/17/16 09:19

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 AH63170 - General Preparation										
Blank (AH63170-BLK1)				Prepared & Analyzed: 08/01/16						
Sulfate as SO4	ND	0.50	mg/L							
Chloride	ND	0.50	mg/L							
Nitrite as NO2	ND	1.0	mg/L							
Nitrite as N	ND	0.20	mg/L							
Nitrate as NO3	ND	1.0	mg/L							
Nitrate as N	ND	0.20	mg/L							
LCS (AH63170-BS1)				Prepared & Analyzed: 08/01/16						
Sulfate as SO4	21.9	0.50	mg/L	22.2		98.3	90-110			
Nitrate as N	5.54	0.20	mg/L	5.56		99.7	90-110			
Chloride	11.2	0.50	mg/L	11.1		101	90-110			
Nitrite as NO2	18.0	1.0	mg/L	18.2		98.7	90-110			
Nitrite as N	5.47	0.20	mg/L	5.56		98.4	90-110			
Nitrate as NO3	25	1.0	mg/L	24.7		99.5	90-110			
Duplicate (AH63170-DUP1)				Source: 16G2558-02		Prepared & Analyzed: 08/01/16				
Nitrite as NO2	ND	1.0	mg/L		ND				20	
Chloride	ND	0.50	mg/L		ND			0.727	20	
Nitrite as N	ND	0.20	mg/L		ND				20	
Nitrate as N	ND	0.20	mg/L		ND			0.289	20	
Sulfate as SO4	0.531	0.50	mg/L		0.542			2.05	20	
Nitrate as NO3	ND	1.0	mg/L		ND			0.289	20	
Matrix Spike (AH63170-MS1)				Source: 16G2558-02		Prepared & Analyzed: 08/01/16				
Nitrite as NO2	18.9	1.0	mg/L	18.2	ND	104	80-120			
Nitrite as N	5.74	0.20	mg/L	5.56	ND	103	80-120			
Nitrate as N	5.89	0.20	mg/L	5.56	ND	105	80-120			
Nitrate as NO3	26	1.0	mg/L	24.7	ND	104	80-120			
Chloride	11.8	0.50	mg/L	11.1	ND	105	80-120			
Sulfate as SO4	23.6	0.50	mg/L	22.2	0.542	104	80-120			

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Reported:
08/17/16 09:19

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 AH63170 - General Preparation

Matrix Spike (AH63170-MS2)

Source: 16H0088-01

Prepared & Analyzed: 08/01/16

Chloride	15.7	2.5	mg/L	11.1	4.95	96.6	80-120			
Nitrite as N	5.33	1.0	mg/L	5.56	ND	95.9	80-120			
Nitrate as N	5.33	1.0	mg/L	5.56	ND	94.0	80-120			
Sulfate as SO4	29.8	2.5	mg/L	22.2	9.95	89.5	80-120			
Nitrate as NO3	24	5.0	mg/L	24.7	ND	93.8	80-120			
Nitrite as NO2	17.5	5.0	mg/L	18.2	ND	96.2	80-120			

Matrix Spike Dup (AH63170-MSD1)

Source: 16G2558-02

Prepared & Analyzed: 08/01/16

Chloride	12.1	0.50	mg/L	11.1	ND	108	80-120	2.56	20	
Nitrite as N	5.89	0.20	mg/L	5.56	ND	106	80-120	2.58	20	
Nitrate as N	6.05	0.20	mg/L	5.56	ND	107	80-120	2.58	20	
Sulfate as SO4	24.2	0.50	mg/L	22.2	0.542	107	80-120	2.52	20	
Nitrite as NO2	19.4	1.0	mg/L	18.2	ND	106	80-120	2.58	20	
Nitrate as NO3	27	1.0	mg/L	24.7	ND	107	80-120	2.58	20	



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Notes and Definitions

- QM-01 The spike recovery for this QC sample is outside of established control limits possibly due to a sample matrix interference.
- QM-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

