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United States Environmental Protection Agency
Region 9 Laboratory

1337 S. 46th Street Building 201
Richmond, CA 94804

Date: 12/23/2016

Subject: Analytical Testing Results - Project R17S19
SDG: 16334A

From: Peter Husby, Director
EPA Region 9 Laboratory
EMD-3-1

To: Karen Jurist
California Site Cleanup Section 3
SFD-7-3

Attached are the results from the analysis of samples from the **Jervis Webb 2016 New Wells Sampling** project. These data have been reviewed in accordance with EPA Region 9 Laboratory policy.

A full documentation package for these data, including raw data and sample custody documentation, is on file at the EPA Region 9 Laboratory. If you would like to request additional review and/or validation of the data, please contact Eugenia McNaughton at the Region 9 Quality Assurance Office.

If you have any questions, please ask for Richard Bauer, the Lab Project Manager at (510)412-2300.

Electronic CC: Don Gruber, Gilbane, Inc.
Tom Beer, Gilbane, Inc.

Analyses included in this report:

Alkalinity	Anions by Ion Chromatography
Total Organic Carbon	Total Dissolved Solids

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Phone:(510) 412-2300 Fax:(510) 412-2302

Project Manager: Karen Jurist	**California Site Cleanup Section 3**	**SDG:** 16334A
Project Number: R17S19	**75 Hawthorne Street**	**Reported:** 12/23/16 13:22
Project: Jervis Webb 2016 New Wells Sampling	**San Francisco CA, 94105**	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
JWMW-11A-1116	1611066-01	Water	11/29/16 12:48	11/30/16 11:45
JWMW-11B-1116	1611066-02	Water	11/29/16 11:03	11/30/16 11:45
JWMW-11C-1116	1611066-03	Water	11/29/16 09:27	11/30/16 11:45
JWMW-12-1116	1611066-04	Water	11/29/16 08:11	11/30/16 11:45
JWMW-911B-1116	1611066-05	Water	11/29/16 11:13	11/30/16 11:45

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Sample Results

Analyte	Reanalysis / Extract	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
Lab ID: 1611066-01									**Water - Sampled: 11/29/16 12:48**
Sample ID: JWMW-11A-1116						**Conventional Chemistry Parameters by APHA/EPA Methods**			
Hydroxide Alkalinity		ND	U	10	mg/L	B16L051	12/08/16	12/08/16	SM2320
Carbonate Alkalinity		ND	U	10	"	"	"	"	SM2320
Bicarbonate Alkalinity		680		10	"	"	"	"	SM2320
Total Alkalinity		680		10	"	"	"	"	SM2320
Chloride	RE1	140		10	"	B16L005	12/01/16	12/01/16	300.0
Sulfate		1,200		50	"	"	"	12/01/16	300.0
Total Organic Carbon		4.5		0.50	"	B16L061	12/09/16	12/10/16	415.3
Total Dissolved Solids		2,600		20	"	B16L039	12/06/16	12/06/16	2540C
Lab ID: 1611066-02									**Water - Sampled: 11/29/16 11:03**
Sample ID: JWMW-11B-1116						**Conventional Chemistry Parameters by APHA/EPA Methods**			
Hydroxide Alkalinity		ND	U	10	mg/L	B16L051	12/08/16	12/08/16	SM2320
Carbonate Alkalinity		ND	U	10	"	"	"	"	SM2320
Bicarbonate Alkalinity		720		10	"	"	"	"	SM2320
Total Alkalinity		720		10	"	"	"	"	SM2320
Chloride	RE1	120		10	"	B16L005	12/01/16	12/01/16	300.0
Sulfate		2,600		50	"	"	"	12/01/16	300.0
Total Organic Carbon		4.8		0.50	"	B16L061	12/09/16	12/10/16	415.3
Total Dissolved Solids		4,600		20	"	B16L039	12/06/16	12/06/16	2540C
Lab ID: 1611066-03									**Water - Sampled: 11/29/16 09:27**
Sample ID: JWMW-11C-1116						**Conventional Chemistry Parameters by APHA/EPA Methods**			
Hydroxide Alkalinity		ND	U	10	mg/L	B16L051	12/08/16	12/08/16	SM2320
Carbonate Alkalinity		ND	U	10	"	"	"	"	SM2320
Bicarbonate Alkalinity		420		10	"	"	"	"	SM2320
Total Alkalinity		420		10	"	"	"	"	SM2320
Chloride	RE1	330		10	"	B16L005	12/01/16	12/01/16	300.0
Sulfate		1,900		50	"	"	"	12/01/16	300.0
Total Organic Carbon		8.0		0.50	"	B16L061	12/09/16	12/10/16	415.3
Total Dissolved Solids		3,300		20	"	B16L039	12/06/16	12/06/16	2540C
Lab ID: 1611066-04									**Water - Sampled: 11/29/16 08:11**
Sample ID: JWMW-12-1116						**Conventional Chemistry Parameters by APHA/EPA Methods**			
Hydroxide Alkalinity		ND	U	10	mg/L	B16L051	12/08/16	12/08/16	SM2320
Carbonate Alkalinity		ND	U	10	"	"	"	"	SM2320
Bicarbonate Alkalinity		400		10	"	"	"	"	SM2320
Total Alkalinity		400		10	"	"	"	"	SM2320
Chloride	RE1	350		20	"	B16L005	12/01/16	12/01/16	300.0
Sulfate		1,900		50	"	"	"	12/01/16	300.0
Total Organic Carbon		2.6		0.50	"	B16L061	12/09/16	12/10/16	415.3
Total Dissolved Solids		3,700		20	"	B16L039	12/06/16	12/06/16	2540C
Lab ID: 1611066-05									**Water - Sampled: 11/29/16 11:13**

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Sample Results

Analyte	Reanalysis / Extract	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
Lab ID: 1611066-05									**Water - Sampled: 11/29/16 11:13**
Sample ID: JWMW-911B-1116									
						Conventional Chemistry Parameters by APHA/EPA Methods			
Hydroxide Alkalinity		ND	U	10	mg/L	B16L051	12/08/16	12/08/16	SM2320
Carbonate Alkalinity		ND	U	10	"	"	"	"	SM2320
Bicarbonate Alkalinity		710		10	"	"	"	"	SM2320
Total Alkalinity		710		10	"	"	"	"	SM2320
Chloride	RE1	120		10	"	B16L005	12/01/16	12/01/16	300.0
Sulfate		2,600		50	"	"	"	12/01/16	300.0
Total Organic Carbon		4.6		0.50	"	B16L061	12/09/16	12/10/16	415.3
Total Dissolved Solids		4,600		20	"	B16L039	12/06/16	12/06/16	2540C

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Quality Control

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B16L005 - - General Inorganic - Anions										**Prepared & Analyzed: 12/01/16**
										Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control
Blank (B16L005-BLK1)										
Chloride	ND	U	1	mg/L						
Sulfate	ND	U	0.5	"						
Blank (B16L005-BLK2)										
Chloride	ND	U	1	mg/L						
Sulfate	ND	U	0.5	"						
LCS (B16L005-BS1)										
Chloride	10.2			mg/L	10.0		102	90-110		
Sulfate	10.5			"	10.0		105	90-110		
Duplicate (B16L005-DUP1)		**Source: 1611066-03**								
Sulfate	1,960		50	mg/L		1,920			2	20
Duplicate (B16L005-DUP2)		**Source: 1611066-03RE1**								
Chloride	335		10	mg/L		335			0.2	20
Batch B16L039 - - General Biology - Solids, Total Dissolved										**Prepared & Analyzed: 12/06/16**
										Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control
Blank (B16L039-BLK1)										
Total Dissolved Solids	ND	U	20	mg/L						
Duplicate (B16L039-DUP1)		**Source: 1611066-03**								
Total Dissolved Solids	3,300		20	mg/L		3,300			1	5
Reference (B16L039-SRM1)										
Total Dissolved Solids	610			mg/L	608		100	85-115		
Batch B16L051 - Alkalinity - Alkalinity										**Prepared & Analyzed: 12/08/16**
										Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control
Blank (B16L051-BLK1)										
Hydroxide Alkalinity	ND	U	10	mg/L						
Carbonate Alkalinity	ND	U	10	"						
Bicarbonate Alkalinity	ND	U	10	"						
Total Alkalinity	ND	U	10	"						
LCS (B16L051-BS1)										
Total Alkalinity	102			mg/L	101		101	85-115		
Duplicate (B16L051-DUP1)		**Source: 1611066-03**								
Hydroxide Alkalinity	ND	U	10	mg/L		ND				20
Carbonate Alkalinity	ND	U	10	"		ND				20
Bicarbonate Alkalinity	429		10	"		425			0.9	20
Total Alkalinity	429		10	"		425			0.9	20
Duplicate (B16L051-DUP3)		**Source: 1612025-02**								
Hydroxide Alkalinity	ND	U	10	mg/L		ND				20
Carbonate Alkalinity	ND	U	10	"		ND				20
Bicarbonate Alkalinity	562		10	"		558			0.7	20
Total Alkalinity	562		10	"		558			0.7	20

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Quality Control

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B16L061 - - General Inorganic - Carbon, Total Organic by 415.3										**Prepared & Analyzed: 12/09/16**
								Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control		
Blank (B16L061-BLK1)										
Total Organic Carbon	ND	U	0.5	mg/L						
LCS (B16L061-BS1)										
Total Organic Carbon	2.91		0.5	mg/L	2.86		102	80-120		
Matrix Spike (B16L061-MS1)		**Source: 1611066-03**								
Total Organic Carbon	10.9		0.5	mg/L	2.86	7.98	103	70-130		
Matrix Spike Dup (B16L061-MSD1)		**Source: 1611066-03**								
Total Organic Carbon	11.1		0.5	mg/L	2.86	7.98	108	70-130	1	20

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Qualifiers and Comments

U	Not Detected
NR	Not Reported
RE1, RE2, etc:	Result is from a sample re-analysis.