

LAB CHRONICLE

OrderID:	P4846	OrderDate:	11/14/2024 10:45:00 AM
Client:	EA Engineering Science & Technology	Project:	Scotia, NY - Annual Testing
Contact:	Jim Hayward	Location:	M11,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4846-01	FSND-MW-EVAL-03D-20241113	WATER			11/13/24 09:05			11/14/24
			Alkalinity	SM2320 B			11/19/24 10:28	
			Anions Group1	9056A			11/14/24 14:53	
			TOC	9060A			11/18/24 13:31	
P4846-01DL	FSND-MW-EVAL-03D-20241113DL	WATER			11/13/24 09:05			11/14/24
			Anions Group1	9056A			11/14/24 21:20	
P4846-02	FSND-MW-EVAL-03S-20241113	WATER			11/13/24 07:51			11/14/24
			Alkalinity	SM2320 B			11/19/24 10:44	
			Anions Group1	9056A			11/14/24 15:14	
			TOC	9060A			11/18/24 13:55	
P4846-02DL	FSND-MW-EVAL-03S-20241113DL	WATER			11/13/24 07:51			11/14/24
			Anions Group1	9056A			11/14/24 21:42	
P4846-03	FSND-FD-3-20241113	WATER			11/13/24 07:51			11/14/24
			Alkalinity	SM2320 B			11/19/24 10:52	

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			Anions Group1	9056A		11/14/24 15:36	
			TOC	9060A		11/18/24 14:20	
P4846-03DL	FSND-FD-3-20241113 DL	WATER			11/13/24 07:51		11/14/24
			Anions Group1	9056A		11/14/24 22:46	
P4846-04	FSND-MW-EVAL-04S- 20241113	WATER			11/13/24 11:00		11/14/24
			Alkalinity	SM2320 B		11/19/24 11:00	
			Anions Group1	9056A		11/14/24 15:58	
			TOC	9060A		11/18/24 14:45	
P4846-04DL	FSND-MW-EVAL-04S- 20241113DL	WATER			11/13/24 11:00		11/14/24
			Anions Group1	9056A		11/14/24 23:08	
P4846-05	FSND-MW-EVAL-04D- 20241113	WATER			11/13/24 12:55		11/14/24
			Alkalinity	SM2320 B		11/19/24 11:08	
			Anions Group1	9056A		11/14/24 16:19	
			TOC	9060A		11/18/24 15:10	
P4846-05DL	FSND-MW-EVAL-04D- 20241113DL	WATER			11/13/24 12:55		11/14/24
			Anions Group1	9056A		11/14/24 23:29	
P4846-08	FSND-MW-26-202411 13	WATER			11/13/24 13:40		11/14/24
			Alkalinity	SM2320 B		11/19/24 11:15	

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			Anions Group1	9056A	11/14/24 17:24	
			TOC	9060A	11/18/24 16:28	
P4846-08DL	FSND-MW-26-202411 13DL	WATER			11/13/24 13:40	11/14/24
			Anions Group1	9056A	11/15/24 00:12	
P4846-10	FSND-RB-3-20241113	WATER			11/13/24 16:17	11/14/24
			Alkalinity	SM2320 B	11/19/24 12:44	
			Anions Group1	9056A	11/14/24 18:28	
			TOC	9060A	11/18/24 17:41	
P4846-11	FSND-MW-24-202411 13	WATER			11/13/24 13:05	11/14/24
			Alkalinity	SM2320 B	11/19/24 11:26	
			Anions Group1	9056A	11/14/24 18:50	
			TOC	9060A	11/18/24 18:05	
P4846-11DL	FSND-MW-24-202411 13DL	WATER			11/13/24 13:05	11/14/24
			Anions Group1	9056A	11/15/24 11:08	
P4846-12	FSND-MW-15-202411 13	WATER			11/13/24 16:10	11/14/24
			Alkalinity	SM2320 B	11/19/24 11:34	
			Anions Group1	9056A	11/14/24 19:11	

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TOC 9060A 11/18/24
18:30

P4846-12DL FSND-MW-15-20241113DL WATER 11/13/24 16:10 11/14/24

Anions Group1 9056A 11/15/24
11:30

P4846-13 FSND-MW-EVAL-02D-20241113 WATER 11/13/24 11:25 11/14/24

Alkalinity SM2320 B 11/19/24
11:40
Anions Group1 9056A 11/14/24
19:33
TOC 9060A 11/18/24
18:54

P4846-13DL FSND-MW-EVAL-02D-20241113DL WATER 11/13/24 11:25 11/14/24

Anions Group1 9056A 11/15/24
11:51

P4846-14 FSND-MW-EVAL-02S-20241113 WATER 11/13/24 10:25 11/14/24

Alkalinity SM2320 B 11/19/24
11:46
Anions Group1 9056A 11/14/24
19:54
TOC 9060A 11/18/24
19:18

P4846-14DL FSND-MW-EVAL-02S-20241113DL WATER 11/13/24 10:25 11/14/24

Anions Group1 9056A 11/15/24
12:13

P4846-15 FSND-FD-4-20241113 WATER 11/13/24 10:25 11/14/24

Alkalinity SM2320 B 11/19/24
11:54
Anions Group1 9056A 11/14/24
20:16

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			TOC	9060A		11/18/24 20:34	
P4846-15DL	FSND-FD-4-20241113 DL	WATER			11/13/24 10:25		11/14/24
			Anions Group1	9056A		11/15/24 12:34	
P4846-16	FSND-MW-EVAL-01D- 20241113	WATER			11/13/24 09:15		11/14/24
			Alkalinity	SM2320 B		11/19/24 12:00	
			Anions Group1	9056A		11/14/24 20:37	
			TOC	9060A		11/18/24 20:59	
P4846-16DL	FSND-MW-EVAL-01D- 20241113DL	WATER			11/13/24 09:15		11/14/24
			Anions Group1	9056A		11/15/24 12:56	
P4846-17	FSND-MW-EVAL-01S- 20241113	WATER			11/13/24 09:15		11/14/24
			Alkalinity	SM2320 B		11/19/24 12:08	
			Anions Group1	9056A		11/14/24 20:59	
			TOC	9060A		11/18/24 21:24	
P4846-17DL	FSND-MW-EVAL-01S- 20241113DL	WATER			11/13/24 09:15		11/14/24
			Anions Group1	9056A		11/15/24 13:17	



SAMPLE DATA

A

B

C

D

Report of Analysis

Client:	EA Engineering Science & Technology	Date Collected:	11/13/24 09:05
Project:	Scotia, NY - Annual Testing	Date Received:	11/14/24
Client Sample ID:	FSND-MW-EVAL-03D-20241113	SDG No.:	P4846
Lab Sample ID:	P4846-01	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Alkalinity	193		1	1.00	1.00	2.00	mg/L		11/19/24 10:28	SM 2320 B-11
Chloride	46.0	OR	1	0.011	0.30	0.60	mg/L		11/14/24 14:53	9056A
Nitrate	0.14	J	1	0.0034	0.25	0.50	mg/L		11/14/24 14:53	9056A
Sulfate	12.2		1	0.032	1.50	3.00	mg/L		11/14/24 14:53	9056A
TOC	1.20		1	0.19	0.50	1.00	mg/L		11/18/24 13:31	9060A

Comments: The alkalinity to pH 4.41=193 mg CaCO₃/L

U = Not Detected

LOQ = Limit of Quantitation

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J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	EA Engineering Science & Technology	Date Collected:	11/13/24 09:05
Project:	Scotia, NY - Annual Testing	Date Received:	11/14/24
Client Sample ID:	FSND-MW-EVAL-03D-20241113DL	SDG No.:	P4846
Lab Sample ID:	P4846-01DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	39.8	D	10	0.11	3.00	6.00	mg/L		11/14/24 21:20	9056A

Comments:

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Report of Analysis

Client:	EA Engineering Science & Technology	Date Collected:	11/13/24 07:51
Project:	Scotia, NY - Annual Testing	Date Received:	11/14/24
Client Sample ID:	FSND-MW-EVAL-03S-20241113	SDG No.:	P4846
Lab Sample ID:	P4846-02	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Alkalinity	242		1	1.00	1.00	2.00	mg/L		11/19/24 10:44	SM 2320 B-11
Chloride	39.5	OR	1	0.011	0.30	0.60	mg/L		11/14/24 15:14	9056A
Nitrate	1.90		1	0.0034	0.25	0.50	mg/L		11/14/24 15:14	9056A
Sulfate	24.4		1	0.032	1.50	3.00	mg/L		11/14/24 15:14	9056A
TOC	1.20		1	0.19	0.50	1.00	mg/L		11/18/24 13:55	9060A

Comments: The alkalinity to pH 4.45=242 mg CaCO₃/L

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J = Estimated Value

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Report of Analysis

Client:	EA Engineering Science & Technology	Date Collected:	11/13/24 07:51
Project:	Scotia, NY - Annual Testing	Date Received:	11/14/24
Client Sample ID:	FSND-MW-EVAL-03S-20241113DL	SDG No.:	P4846
Lab Sample ID:	P4846-02DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	35.1	D	10	0.11	3.00	6.00	mg/L		11/14/24 21:42	9056A

Comments:

U = Not Detected

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LOD = Limit of Detection

D = Dilution

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J = Estimated Value

B = Analyte Found in Associated Method Blank

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Report of Analysis

Client:	EA Engineering Science & Technology	Date Collected:	11/13/24 07:51
Project:	Scotia, NY - Annual Testing	Date Received:	11/14/24
Client Sample ID:	FSND-FD-3-20241113	SDG No.:	P4846
Lab Sample ID:	P4846-03	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Alkalinity	241		1	1.00	1.00	2.00	mg/L		11/19/24 10:52	SM 2320 B-11
Chloride	39.7	OR	1	0.011	0.30	0.60	mg/L		11/14/24 15:36	9056A
Nitrate	1.90		1	0.0034	0.25	0.50	mg/L		11/14/24 15:36	9056A
Sulfate	24.7		1	0.032	1.50	3.00	mg/L		11/14/24 15:36	9056A
TOC	1.10		1	0.19	0.50	1.00	mg/L		11/18/24 14:20	9060A

Comments: The alkalinity to pH 4.50=241 mg CaCO₃/L

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Report of Analysis

Client:	EA Engineering Science & Technology	Date Collected:	11/13/24 07:51
Project:	Scotia, NY - Annual Testing	Date Received:	11/14/24
Client Sample ID:	FSND-FD-3-20241113DL	SDG No.:	P4846
Lab Sample ID:	P4846-03DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	35.2	D	10	0.11	3.00	6.00	mg/L		11/14/24 22:46	9056A

Comments:

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J = Estimated Value

B = Analyte Found in Associated Method Blank

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Report of Analysis

Client:	EA Engineering Science & Technology	Date Collected:	11/13/24 11:00
Project:	Scotia, NY - Annual Testing	Date Received:	11/14/24
Client Sample ID:	FSND-MW-EVAL-04S-20241113	SDG No.:	P4846
Lab Sample ID:	P4846-04	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Alkalinity	230		1	1.00	1.00	2.00	mg/L		11/19/24 11:00	SM 2320 B-11
Chloride	47.2	OR	1	0.011	0.30	0.60	mg/L		11/14/24 15:58	9056A
Nitrate	0.92		1	0.0034	0.25	0.50	mg/L		11/14/24 15:58	9056A
Sulfate	20.8		1	0.032	1.50	3.00	mg/L		11/14/24 15:58	9056A
TOC	1.40		1	0.19	0.50	1.00	mg/L		11/18/24 14:45	9060A

Comments: The alkalinity to pH 4.38=230 mg CaCO₃/L

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J = Estimated Value

B = Analyte Found in Associated Method Blank

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Report of Analysis

Client:	EA Engineering Science & Technology	Date Collected:	11/13/24 11:00
Project:	Scotia, NY - Annual Testing	Date Received:	11/14/24
Client Sample ID:	FSND-MW-EVAL-04S-20241113DL	SDG No.:	P4846
Lab Sample ID:	P4846-04DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	41.0	D	10	0.11	3.00	6.00	mg/L		11/14/24 23:08	9056A

Comments:

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Report of Analysis

Client:	EA Engineering Science & Technology	Date Collected:	11/13/24 12:55
Project:	Scotia, NY - Annual Testing	Date Received:	11/14/24
Client Sample ID:	FSND-MW-EVAL-04D-20241113	SDG No.:	P4846
Lab Sample ID:	P4846-05	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Alkalinity	224		1	1.00	1.00	2.00	mg/L		11/19/24 11:08	SM 2320 B-11
Chloride	47.8	OR	1	0.011	0.30	0.60	mg/L		11/14/24 16:19	9056A
Nitrate	0.91		1	0.0034	0.25	0.50	mg/L		11/14/24 16:19	9056A
Sulfate	20.9		1	0.032	1.50	3.00	mg/L		11/14/24 16:19	9056A
TOC	1.20		1	0.19	0.50	1.00	mg/L		11/18/24 15:10	9060A

Comments: The alkalinity to pH 4.46=224 mg CaCO₃/L

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J = Estimated Value

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Report of Analysis

Client:	EA Engineering Science & Technology	Date Collected:	11/13/24 12:55
Project:	Scotia, NY - Annual Testing	Date Received:	11/14/24
Client Sample ID:	FSND-MW-EVAL-04D-20241113DL	SDG No.:	P4846
Lab Sample ID:	P4846-05DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	41.5	D	10	0.11	3.00	6.00	mg/L		11/14/24 23:29	9056A

Comments:

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Report of Analysis

Client:	EA Engineering Science & Technology	Date Collected:	11/13/24 13:40
Project:	Scotia, NY - Annual Testing	Date Received:	11/14/24
Client Sample ID:	FSND-MW-26-20241113	SDG No.:	P4846
Lab Sample ID:	P4846-08	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Alkalinity	197		1	1.00	1.00	2.00	mg/L		11/19/24 11:15	SM 2320 B-11
Chloride	25.2	OR	1	0.011	0.30	0.60	mg/L		11/14/24 17:24	9056A
Nitrate	0.10	J	1	0.0034	0.25	0.50	mg/L		11/14/24 17:24	9056A
Sulfate	18.4		1	0.032	1.50	3.00	mg/L		11/14/24 17:24	9056A
TOC	2.30		1	0.19	0.50	1.00	mg/L		11/18/24 16:28	9060A

Comments: The alkalinity to pH 4.40=197 mg CaCO₃/L

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Report of Analysis

Client:	EA Engineering Science & Technology	Date Collected:	11/13/24 13:40
Project:	Scotia, NY - Annual Testing	Date Received:	11/14/24
Client Sample ID:	FSND-MW-26-20241113DL	SDG No.:	P4846
Lab Sample ID:	P4846-08DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	23.7	D	10	0.11	3.00	6.00	mg/L		11/15/24 00:12	9056A

Comments:

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Report of Analysis

Client:	EA Engineering Science & Technology	Date Collected:	11/13/24 16:17
Project:	Scotia, NY - Annual Testing	Date Received:	11/14/24
Client Sample ID:	FSND-RB-3-20241113	SDG No.:	P4846
Lab Sample ID:	P4846-10	Matrix:	Water
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Alkalinity	1.00	U	1	1.00	1.00	2.00	mg/L		11/19/24 12:44	SM 2320 B-11
Chloride	0.091	J	1	0.011	0.30	0.60	mg/L		11/14/24 18:28	9056A
Nitrate	0.25	U	1	0.0034	0.25	0.50	mg/L		11/14/24 18:28	9056A
Sulfate	1.50	U	1	0.032	1.50	3.00	mg/L		11/14/24 18:28	9056A
TOC	0.44	J	1	0.19	0.50	1.00	mg/L		11/18/24 17:41	9060A

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Report of Analysis

Client:	EA Engineering Science & Technology	Date Collected:	11/13/24 13:05
Project:	Scotia, NY - Annual Testing	Date Received:	11/14/24
Client Sample ID:	FSND-MW-24-20241113	SDG No.:	P4846
Lab Sample ID:	P4846-11	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Alkalinity	191		1	1.00	1.00	2.00	mg/L		11/19/24 11:26	SM 2320 B-11
Chloride	41.3	OR	1	0.011	0.30	0.60	mg/L		11/14/24 18:50	9056A
Nitrate	0.25	U	1	0.0034	0.25	0.50	mg/L		11/14/24 18:50	9056A
Sulfate	15.5		1	0.032	1.50	3.00	mg/L		11/14/24 18:50	9056A
TOC	0.98	J	1	0.19	0.50	1.00	mg/L		11/18/24 18:05	9060A

Comments: The alkalinity to pH 4.42=191 mg CaCO₃/L

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	EA Engineering Science & Technology	Date Collected:	11/13/24 13:05
Project:	Scotia, NY - Annual Testing	Date Received:	11/14/24
Client Sample ID:	FSND-MW-24-20241113DL	SDG No.:	P4846
Lab Sample ID:	P4846-11DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	36.6	D	10	0.11	3.00	6.00	mg/L		11/15/24 11:08	9056A

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	EA Engineering Science & Technology	Date Collected:	11/13/24 16:10
Project:	Scotia, NY - Annual Testing	Date Received:	11/14/24
Client Sample ID:	FSND-MW-15-20241113	SDG No.:	P4846
Lab Sample ID:	P4846-12	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Alkalinity	246		1	1.00	1.00	2.00	mg/L		11/19/24 11:34	SM 2320 B-11
Chloride	41.0	OR	1	0.011	0.30	0.60	mg/L		11/14/24 19:11	9056A
Nitrate	2.00		1	0.0034	0.25	0.50	mg/L		11/14/24 19:11	9056A
Sulfate	19.8		1	0.032	1.50	3.00	mg/L		11/14/24 19:11	9056A
TOC	1.10		1	0.19	0.50	1.00	mg/L		11/18/24 18:30	9060A

Comments: The alkalinity to pH 4.48=246 mg CaCO₃/L

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	EA Engineering Science & Technology	Date Collected:	11/13/24 16:10
Project:	Scotia, NY - Annual Testing	Date Received:	11/14/24
Client Sample ID:	FSND-MW-15-20241113DL	SDG No.:	P4846
Lab Sample ID:	P4846-12DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	36.5	D	10	0.11	3.00	6.00	mg/L		11/15/24 11:30	9056A

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	EA Engineering Science & Technology	Date Collected:	11/13/24 11:25
Project:	Scotia, NY - Annual Testing	Date Received:	11/14/24
Client Sample ID:	FSND-MW-EVAL-02D-20241113	SDG No.:	P4846
Lab Sample ID:	P4846-13	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Alkalinity	154		1	1.00	1.00	2.00	mg/L		11/19/24 11:40	SM 2320 B-11
Chloride	69.1	OR	1	0.011	0.30	0.60	mg/L		11/14/24 19:33	9056A
Nitrate	0.34	J	1	0.0034	0.25	0.50	mg/L		11/14/24 19:33	9056A
Sulfate	15.2		1	0.032	1.50	3.00	mg/L		11/14/24 19:33	9056A
TOC	1.00		1	0.19	0.50	1.00	mg/L		11/18/24 18:54	9060A

Comments: The alkalinity to pH 4.41=154 mg CaCO₃/L

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	EA Engineering Science & Technology	Date Collected:	11/13/24 11:25
Project:	Scotia, NY - Annual Testing	Date Received:	11/14/24
Client Sample ID:	FSND-MW-EVAL-02D-20241113DL	SDG No.:	P4846
Lab Sample ID:	P4846-13DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	57.2	D	20	0.22	6.00	12.0	mg/L		11/15/24 11:51	9056A

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	EA Engineering Science & Technology	Date Collected:	11/13/24 10:25
Project:	Scotia, NY - Annual Testing	Date Received:	11/14/24
Client Sample ID:	FSND-MW-EVAL-02S-20241113	SDG No.:	P4846
Lab Sample ID:	P4846-14	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Alkalinity	285		1	1.00	1.00	2.00	mg/L		11/19/24 11:46	SM 2320 B-11
Chloride	80.6	OR	1	0.011	0.30	0.60	mg/L		11/14/24 19:54	9056A
Nitrate	1.10		1	0.0034	0.25	0.50	mg/L		11/14/24 19:54	9056A
Sulfate	32.6		1	0.032	1.50	3.00	mg/L		11/14/24 19:54	9056A
TOC	1.30		1	0.19	0.50	1.00	mg/L		11/18/24 19:18	9060A

Comments: The alkalinity to pH 4.42=285 mg CaCO₃/L

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	EA Engineering Science & Technology	Date Collected:	11/13/24 10:25
Project:	Scotia, NY - Annual Testing	Date Received:	11/14/24
Client Sample ID:	FSND-MW-EVAL-02S-20241113DL	SDG No.:	P4846
Lab Sample ID:	P4846-14DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	64.9	D	20	0.22	6.00	12.0	mg/L		11/15/24 12:13	9056A

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	EA Engineering Science & Technology	Date Collected:	11/13/24 10:25
Project:	Scotia, NY - Annual Testing	Date Received:	11/14/24
Client Sample ID:	FSND-FD-4-20241113	SDG No.:	P4846
Lab Sample ID:	P4846-15	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Alkalinity	288		1	1.00	1.00	2.00	mg/L		11/19/24 11:54	SM 2320 B-11
Chloride	79.3	OR	1	0.011	0.30	0.60	mg/L		11/14/24 20:16	9056A
Nitrate	1.10		1	0.0034	0.25	0.50	mg/L		11/14/24 20:16	9056A
Sulfate	32.4		1	0.032	1.50	3.00	mg/L		11/14/24 20:16	9056A
TOC	1.30		1	0.19	0.50	1.00	mg/L		11/18/24 20:34	9060A

Comments: The alkalinity to pH 4.43=288 mg CaCO₃/L

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	EA Engineering Science & Technology	Date Collected:	11/13/24 10:25
Project:	Scotia, NY - Annual Testing	Date Received:	11/14/24
Client Sample ID:	FSND-FD-4-20241113DL	SDG No.:	P4846
Lab Sample ID:	P4846-15DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	58.9	D	20	0.22	6.00	12.0	mg/L		11/15/24 12:34	9056A

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	EA Engineering Science & Technology	Date Collected:	11/13/24 09:15
Project:	Scotia, NY - Annual Testing	Date Received:	11/14/24
Client Sample ID:	FSND-MW-EVAL-01D-20241113	SDG No.:	P4846
Lab Sample ID:	P4846-16	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Alkalinity	172		1	1.00	1.00	2.00	mg/L		11/19/24 12:00	SM 2320 B-11
Chloride	42.4	OR	1	0.011	0.30	0.60	mg/L		11/14/24 20:37	9056A
Nitrate	0.25	U	1	0.0034	0.25	0.50	mg/L		11/14/24 20:37	9056A
Sulfate	13.8		1	0.032	1.50	3.00	mg/L		11/14/24 20:37	9056A
TOC	1.60		1	0.19	0.50	1.00	mg/L		11/18/24 20:59	9060A

Comments: The alkalinity to pH 4.42=172 mg CaCO₃/L

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	EA Engineering Science & Technology	Date Collected:	11/13/24 09:15
Project:	Scotia, NY - Annual Testing	Date Received:	11/14/24
Client Sample ID:	FSND-MW-EVAL-01D-20241113DL	SDG No.:	P4846
Lab Sample ID:	P4846-16DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	37.3	D	10	0.11	3.00	6.00	mg/L		11/15/24 12:56	9056A

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	EA Engineering Science & Technology	Date Collected:	11/13/24 09:15
Project:	Scotia, NY - Annual Testing	Date Received:	11/14/24
Client Sample ID:	FSND-MW-EVAL-01S-20241113	SDG No.:	P4846
Lab Sample ID:	P4846-17	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Alkalinity	238		1	1.00	1.00	2.00	mg/L		11/19/24 12:08	SM 2320 B-11
Chloride	57.0	OR	1	0.011	0.30	0.60	mg/L		11/14/24 20:59	9056A
Nitrate	1.70		1	0.0034	0.25	0.50	mg/L		11/14/24 20:59	9056A
Sulfate	20.0		1	0.032	1.50	3.00	mg/L		11/14/24 20:59	9056A
TOC	1.30		1	0.19	0.50	1.00	mg/L		11/18/24 21:24	9060A

Comments: The alkalinity to pH 4.46=238 mg CaCO₃/L

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	EA Engineering Science & Technology	Date Collected:	11/13/24 09:15
Project:	Scotia, NY - Annual Testing	Date Received:	11/14/24
Client Sample ID:	FSND-MW-EVAL-01S-20241113DL	SDG No.:	P4846
Lab Sample ID:	P4846-17DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	48.8	D	10	0.11	3.00	6.00	mg/L		11/15/24 13:17	9056A

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

QC RESULT SUMMARY

Initial and Continuing Calibration Verification

Client: EA Engineering Science & Technology

SDG No.: P4846

Project: Scotia, NY - Annual Testing

RunNo.: LB133464

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1						
Bromide	mg/L	10	10	100	90-110	10/16/2024
Chloride	mg/L	3	3	100	90-110	10/16/2024
Fluoride	mg/L	2	2	100	90-110	10/16/2024
Nitrite	mg/L	3	3	100	90-110	10/16/2024
Nitrate	mg/L	2.5	2.5	100	90-110	10/16/2024
Sulfate	mg/L	14.9	15	99	90-110	10/16/2024
Orthophosphate as P	mg/L	4.8	5	96	90-110	10/16/2024
Sample ID: CCV1						
Bromide	mg/L	9.7	10	97	90-110	11/14/2024
Chloride	mg/L	2.9	3	97	90-110	11/14/2024
Fluoride	mg/L	2	2	100	90-110	11/14/2024
Nitrite	mg/L	3	3	100	90-110	11/14/2024
Nitrate	mg/L	2.4	2.5	96	90-110	11/14/2024
Sulfate	mg/L	14.6	15	97	90-110	11/14/2024
Orthophosphate as P	mg/L	4.9	5	98	90-110	11/14/2024
Sample ID: CCV2						
Bromide	mg/L	10.6	10	106	90-110	11/14/2024
Chloride	mg/L	3.2	3	107	90-110	11/14/2024
Fluoride	mg/L	2.1	2	105	90-110	11/14/2024
Nitrite	mg/L	3.2	3	107	90-110	11/14/2024
Nitrate	mg/L	2.7	2.5	108	90-110	11/14/2024
Sulfate	mg/L	15.7	15	105	90-110	11/14/2024
Orthophosphate as P	mg/L	5.3	5	106	90-110	11/14/2024
Sample ID: CCV3						
Bromide	mg/L	10.6	10	106	90-110	11/14/2024
Chloride	mg/L	3.2	3	107	90-110	11/14/2024
Fluoride	mg/L	2.1	2	105	90-110	11/14/2024
Nitrite	mg/L	3.2	3	107	90-110	11/14/2024
Nitrate	mg/L	2.7	2.5	108	90-110	11/14/2024
Sulfate	mg/L	15.8	15	105	90-110	11/14/2024
Orthophosphate as P	mg/L	5.3	5	106	90-110	11/14/2024
Sample ID: CCV4						
Bromide	mg/L	10.6	10	106	90-110	11/15/2024
Chloride	mg/L	3.2	3	107	90-110	11/15/2024
Fluoride	mg/L	2.1	2	105	90-110	11/15/2024
Nitrite	mg/L	3.2	3	107	90-110	11/15/2024
Nitrate	mg/L	2.7	2.5	108	90-110	11/15/2024
Sulfate	mg/L	15.9	15	106	90-110	11/15/2024

Initial and Continuing Calibration Verification

Client: EA Engineering Science & Technology

SDG No.: P4846

Project: Scotia, NY - Annual Testing

RunNo.: LB133464

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Orthophosphate as P	mg/L	5.3	5	106	90-110	11/15/2024
Sample ID: CCV5						
Bromide	mg/L	10.4	10	104	90-110	11/15/2024
Chloride	mg/L	3.1	3	103	90-110	11/15/2024
Fluoride	mg/L	2.1	2	105	90-110	11/15/2024
Nitrite	mg/L	3.1	3	103	90-110	11/15/2024
Nitrate	mg/L	2.6	2.5	104	90-110	11/15/2024
Sulfate	mg/L	15.4	15	103	90-110	11/15/2024
Orthophosphate as P	mg/L	5.2	5	104	90-110	11/15/2024
Sample ID: CCV6						
Bromide	mg/L	10.5	10	105	90-110	11/15/2024
Chloride	mg/L	3.1	3	103	90-110	11/15/2024
Fluoride	mg/L	2.1	2	105	90-110	11/15/2024
Nitrite	mg/L	3.1	3	103	90-110	11/15/2024
Nitrate	mg/L	2.6	2.5	104	90-110	11/15/2024
Sulfate	mg/L	15.5	15	103	90-110	11/15/2024
Orthophosphate as P	mg/L	5.2	5	104	90-110	11/15/2024
Sample ID: CCV7						
Bromide	mg/L	10.5	10	105	90-110	11/15/2024
Chloride	mg/L	3.1	3	103	90-110	11/15/2024
Fluoride	mg/L	2.1	2	105	90-110	11/15/2024
Nitrite	mg/L	3.1	3	103	90-110	11/15/2024
Nitrate	mg/L	2.6	2.5	104	90-110	11/15/2024
Sulfate	mg/L	15.5	15	103	90-110	11/15/2024
Orthophosphate as P	mg/L	5.2	5	104	90-110	11/15/2024

Initial and Continuing Calibration Verification

Client: EA Engineering Science & Technology

SDG No.: P4846

Project: Scotia, NY - Annual Testing

RunNo.: LB133484

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1 TOC	mg/L	10.2	10	102	90-110	09/25/2024
Sample ID: CCV1 TOC	mg/L	10.4	10	104	90-110	11/18/2024
Sample ID: CCV2 TOC	mg/L	10.7	10	107	90-110	11/18/2024
Sample ID: CCV3 TOC	mg/L	10.3	10	103	90-110	11/18/2024
Sample ID: CCV4 TOC	mg/L	10.1	10	101	90-110	11/19/2024

Initial and Continuing Calibration Blank Summary

Client: EA Engineering Science & Technology

SDG No.: P4846

Project: Scotia, NY - Annual Testing

RunNo.: LB133464

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1							
Bromide	mg/L	< 1.0000	1.0000	U	0.034	2	10/16/2024
Chloride	mg/L	< 0.3000	0.3000	U	0.011	0.6	10/16/2024
Fluoride	mg/L	< 0.2000	0.2000	U	0.057	0.4	10/16/2024
Nitrite	mg/L	< 0.3000	0.3000	U	0.011	0.6	10/16/2024
Nitrate	mg/L	< 0.2500	0.2500	U	0.0034	0.5	10/16/2024
Sulfate	mg/L	< 1.5000	1.5000	U	0.032	3	10/16/2024
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.079	1	10/16/2024
Sample ID: CCB1							
Bromide	mg/L	< 1.0000	1.0000	U	0.034	2	11/14/2024
Chloride	mg/L	< 0.3000	0.3000	U	0.011	0.6	11/14/2024
Fluoride	mg/L	< 0.2000	0.2000	U	0.057	0.4	11/14/2024
Nitrite	mg/L	< 0.3000	0.3000	U	0.011	0.6	11/14/2024
Nitrate	mg/L	< 0.2500	0.2500	U	0.0034	0.5	11/14/2024
Sulfate	mg/L	< 1.5000	1.5000	U	0.032	3	11/14/2024
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.079	1	11/14/2024
Sample ID: CCB2							
Bromide	mg/L	< 1.0000	1.0000	U	0.034	2	11/14/2024
Chloride	mg/L	< 0.3000	0.3000	U	0.011	0.6	11/14/2024
Fluoride	mg/L	< 0.2000	0.2000	U	0.057	0.4	11/14/2024
Nitrite	mg/L	< 0.3000	0.3000	U	0.011	0.6	11/14/2024
Nitrate	mg/L	< 0.2500	0.2500	U	0.0034	0.5	11/14/2024
Sulfate	mg/L	< 1.5000	1.5000	U	0.032	3	11/14/2024
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.079	1	11/14/2024
Sample ID: CCB3							
Bromide	mg/L	< 1.0000	1.0000	U	0.034	2	11/14/2024
Chloride	mg/L	< 0.3000	0.3000	U	0.011	0.6	11/14/2024
Fluoride	mg/L	< 0.2000	0.2000	U	0.057	0.4	11/14/2024
Nitrite	mg/L	< 0.3000	0.3000	U	0.011	0.6	11/14/2024
Nitrate	mg/L	< 0.2500	0.2500	U	0.0034	0.5	11/14/2024
Sulfate	mg/L	< 1.5000	1.5000	U	0.032	3	11/14/2024
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.079	1	11/14/2024
Sample ID: CCB4							
Bromide	mg/L	< 1.0000	1.0000	U	0.034	2	11/15/2024
Chloride	mg/L	< 0.3000	0.3000	U	0.011	0.6	11/15/2024
Fluoride	mg/L	< 0.2000	0.2000	U	0.057	0.4	11/15/2024
Nitrite	mg/L	< 0.3000	0.3000	U	0.011	0.6	11/15/2024
Nitrate	mg/L	< 0.2500	0.2500	U	0.0034	0.5	11/15/2024
Sulfate	mg/L	< 1.5000	1.5000	U	0.032	3	11/15/2024
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.079	1	11/15/2024
Sample ID: CCB5							
Bromide	mg/L	< 1.0000	1.0000	U	0.034	2	11/15/2024
Chloride	mg/L	< 0.3000	0.3000	U	0.011	0.6	11/15/2024
Fluoride	mg/L	< 0.2000	0.2000	U	0.057	0.4	11/15/2024

Initial and Continuing Calibration Blank Summary

Client: EA Engineering Science & Technology

SDG No.: P4846

Project: Scotia, NY - Annual Testing

RunNo.: LB133464

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Nitrite	mg/L	< 0.3000	0.3000	U	0.011	0.6	11/15/2024
Nitrate	mg/L	< 0.2500	0.2500	U	0.0034	0.5	11/15/2024
Sulfate	mg/L	< 1.5000	1.5000	U	0.032	3	11/15/2024
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.079	1	11/15/2024
Sample ID: CCB6							
Bromide	mg/L	< 1.0000	1.0000	U	0.034	2	11/15/2024
Chloride	mg/L	0.071	0.3000	J	0.011	0.6	11/15/2024
Fluoride	mg/L	< 0.2000	0.2000	U	0.057	0.4	11/15/2024
Nitrite	mg/L	< 0.3000	0.3000	U	0.011	0.6	11/15/2024
Nitrate	mg/L	< 0.2500	0.2500	U	0.0034	0.5	11/15/2024
Sulfate	mg/L	< 1.5000	1.5000	U	0.032	3	11/15/2024
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.079	1	11/15/2024
Sample ID: CCB7							
Bromide	mg/L	< 1.0000	1.0000	U	0.034	2	11/15/2024
Chloride	mg/L	0.074	0.3000	J	0.011	0.6	11/15/2024
Fluoride	mg/L	< 0.2000	0.2000	U	0.057	0.4	11/15/2024
Nitrite	mg/L	< 0.3000	0.3000	U	0.011	0.6	11/15/2024
Nitrate	mg/L	< 0.2500	0.2500	U	0.0034	0.5	11/15/2024
Sulfate	mg/L	< 1.5000	1.5000	U	0.032	3	11/15/2024
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.079	1	11/15/2024

Initial and Continuing Calibration Blank Summary

Client: EA Engineering Science & Technology

SDG No.: P4846

Project: Scotia, NY - Annual Testing

RunNo.: LB133484

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1 TOC	mg/L	< 0.5000	0.5000	U	0.19	1	09/25/2024
Sample ID: CCB1 TOC	mg/L	0.22	0.5000	J	0.19	1	11/18/2024
Sample ID: CCB2 TOC	mg/L	0.29	0.5000	J	0.19	1	11/18/2024
Sample ID: CCB3 TOC	mg/L	0.28	0.5000	J	0.19	1	11/18/2024
Sample ID: CCB4 TOC	mg/L	0.19	0.5000	J	0.19	1	11/19/2024

Preparation Blank Summary

Client: EA Engineering Science & Technology

SDG No.: P4846

Project: Scotia, NY - Annual Testing

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: LB133464BLW							
Bromide	mg/L	< 1.0000	1.0000	U	0.034	2	11/14/2024
Chloride	mg/L	< 0.3000	0.3000	U	0.011	0.6	11/14/2024
Fluoride	mg/L	< 0.2000	0.2000	U	0.057	0.4	11/14/2024
Nitrite	mg/L	< 0.3000	0.3000	U	0.011	0.6	11/14/2024
Nitrate	mg/L	< 0.2500	0.2500	U	0.0034	0.5	11/14/2024
Sulfate	mg/L	< 1.5000	1.5000	U	0.032	3	11/14/2024
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.079	1	11/14/2024
Sample ID: LB133464BLW2							
Bromide	mg/L	< 1.0000	1.0000	U	0.034	2	11/15/2024
Chloride	mg/L	< 0.3000	0.3000	U	0.011	0.6	11/15/2024
Fluoride	mg/L	< 0.2000	0.2000	U	0.057	0.4	11/15/2024
Nitrite	mg/L	< 0.3000	0.3000	U	0.011	0.6	11/15/2024
Nitrate	mg/L	< 0.2500	0.2500	U	0.0034	0.5	11/15/2024
Sulfate	mg/L	< 1.5000	1.5000	U	0.032	3	11/15/2024
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.079	1	11/15/2024
Sample ID: LB133484BLW							
TOC	mg/L	0.29	0.5000	J	0.19	1	11/18/2024
Sample ID: LB133515BLW							
Alkalinity	mg/L	< 1.0000	1.0000	U	1	2	11/19/2024
Sample ID: LB133517BL							
Alkalinity	mg/L	< 1.0000	1.0000	U	1	2	11/19/2024

Matrix Spike Summary

Client:

EA Engineering Science & Technology

SDG No.:

P4846

Project:

Scotia, NY - Annual Testing

Sample ID:

P4846-05

Client ID:

FSND-MW-EVAL-04D-20241113MS

Percent Solids for Spike Sample:

0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Bromide	mg/L	80-120	10.2		0.034	U	10	1	102		11/14/2024
TOC	mg/L	75-125	10.3		1.20		10	1	91		11/18/2024
Chloride	mg/L	80-120	49.1	OR	47.8	OR	3	1	43	*	11/14/2024
Fluoride	mg/L	80-120	2.10		0.12	J	2	1	99		11/14/2024
Nitrite	mg/L	80-120	3.10		0.011	U	3	1	103		11/14/2024
Nitrate	mg/L	80-120	3.40		0.91		2.5	1	100		11/14/2024
Sulfate	mg/L	80-120	35.4		20.9		15	1	97		11/14/2024
Orthophosphate as P	mg/L	80-120	5.10		0.079	U	5	1	102		11/14/2024

Matrix Spike Summary

Client:

EA Engineering Science & Technology

SDG No.:

P4846

Project:

Scotia, NY - Annual Testing

Sample ID:

P4846-05

Client ID:

FSND-MW-EVAL-04D-20241113MSD

Percent Solids for Spike Sample:

0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Bromide	mg/L	80-120	9.80		0.034	U	10	1	98		11/14/2024
TOC	mg/L	75-125	10.3		1.20		10	1	91		11/18/2024
Chloride	mg/L	80-120	49.1	OR	47.8	OR	3	1	43	*	11/14/2024
Fluoride	mg/L	80-120	2.10		0.12	J	2	1	99		11/14/2024
Nitrite	mg/L	80-120	2.90		0.011	U	3	1	97		11/14/2024
Nitrate	mg/L	80-120	3.30		0.91		2.5	1	96		11/14/2024
Sulfate	mg/L	80-120	34.7		20.9		15	1	92		11/14/2024
Orthophosphate as P	mg/L	80-120	4.90		0.079	U	5	1	98		11/14/2024

Matrix Spike Summary

Client:

EA Engineering Science & Technology

SDG No.:

P4846

Project:

Scotia, NY - Annual Testing

Sample ID:

P4846-14

Client ID:

FSND-MW-EVAL-02S-20241113MS

Percent Solids for Spike Sample:

0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
TOC	mg/L	75-125	10.9		1.30		10	1	96		11/18/2024

Matrix Spike Summary

Client: EA Engineering Science & Technology **SDG No.:** P4846
Project: Scotia, NY - Annual Testing **Sample ID:** P4846-14
Client ID: FSND-MW-EVAL-02S-20241113MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
TOC	mg/L	75-125	11.2		1.30		10	1	99		11/18/2024

Matrix Spike Summary

Client:	EA Engineering Science & Technology	SDG No.:	P4846
Project:	Scotia, NY - Annual Testing	Sample ID:	P4873-02
Client ID:	FSND-MW-30-20241114MS	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Bromide	mg/L	80-120	10.1	OR	0.034	U	10	1	101		11/15/2024
Chloride	mg/L	80-120	57.6		56.5	OR	3	1	37	*	11/15/2024
Fluoride	mg/L	80-120	2.10		0.15	J	2	1	98		11/15/2024
Nitrite	mg/L	80-120	3.00		0.011	U	3	1	100		11/15/2024
Nitrate	mg/L	80-120	2.50		0.0034	U	2.5	1	100		11/15/2024
Sulfate	mg/L	80-120	15.8		1.20	J	15	1	97		11/15/2024
Orthophosphate as P	mg/L	80-120	5.10		0.079	U	5	1	102		11/15/2024

Matrix Spike Summary

Client:

EA Engineering Science & Technology

SDG No.:

P4846

Project:

Scotia, NY - Annual Testing

Sample ID:

P4873-02

Client ID:

FSND-MW-30-20241114MSD

Percent Solids for Spike Sample:

0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Bromide	mg/L	80-120	9.70	OR	0.034	U	10	1	97	*	11/15/2024
Chloride	mg/L	80-120	57.4		56.5	OR	3	1	30		11/15/2024
Fluoride	mg/L	80-120	2.10		0.15	J	2	1	98		11/15/2024
Nitrite	mg/L	80-120	2.90		0.011	U	3	1	97		11/15/2024
Nitrate	mg/L	80-120	2.40		0.0034	U	2.5	1	96		11/15/2024
Sulfate	mg/L	80-120	15.1		1.20	J	15	1	93		11/15/2024
Orthophosphate as P	mg/L	80-120	4.90		0.079	U	5	1	98		11/15/2024

Duplicate Sample Summary

Client:	EA Engineering Science & Technology	SDG No.:	P4846
Project:	Scotia, NY - Annual Testing	Sample ID:	P4846-01
Client ID:	FSND-MW-EVAL-03D-20241113DUP	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Alkalinity	mg/L	+/-20	193		193		1	0		11/19/2024

Duplicate Sample Summary

Client:	EA Engineering Science & Technology	SDG No.:	P4846
Project:	Scotia, NY - Annual Testing	Sample ID:	P4846-05
Client ID:	FSND-MW-EVAL-04D-20241113MSD	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
Fluoride	mg/L	+/-15	2.10	OR	2.10	OR	1	0		11/14/2024
Chloride	mg/L	+/-15	49.1		49.1		1	0		11/14/2024
Sulfate	mg/L	+/-15	35.4		34.7		1	2		11/14/2024
Nitrate	mg/L	+/-15	3.40		3.30		1	3		11/14/2024
Bromide	mg/L	+/-15	10.2		9.80		1	4		11/14/2024
Orthophosphate as P	mg/L	+/-15	5.10		4.90		1	4		11/14/2024
Nitrite	mg/L	+/-15	3.10		2.90		1	7		11/14/2024
TOC	mg/L	+/-20	10.3		10.3		1	0		11/18/2024

Duplicate Sample Summary

Client:	EA Engineering Science & Technology	SDG No.:	P4846
Project:	Scotia, NY - Annual Testing	Sample ID:	P4846-14
Client ID:	FSND-MW-EVAL-02S-20241113MSD	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
TOC	mg/L	+/-20	10.9		11.2		1	3		11/18/2024

Duplicate Sample Summary

Client:	EA Engineering Science & Technology	SDG No.:	P4846
Project:	Scotia, NY - Annual Testing	Sample ID:	P4873-01
Client ID:	FSND-RB-4-20241114DUP	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Alkalinity	mg/L	+/-20	1.00	U	1.00	U	1	0		11/19/2024

Duplicate Sample Summary

Client:

EA Engineering Science & Technology

SDG No.:

P4846

Project:

Scotia, NY - Annual Testing

Sample ID:

P4873-02

Client ID:

FSND-MW-30-20241114MSD

Percent Solids for Spike Sample:

0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Fluoride	mg/L	+/-15	2.10	OR	2.10	OR	1	0		11/15/2024
Chloride	mg/L	+/-15	57.6		57.4		1	0		11/15/2024
Nitrite	mg/L	+/-15	3.00		2.90		1	3		11/15/2024
Bromide	mg/L	+/-15	10.1		9.70		1	4		11/15/2024
Nitrate	mg/L	+/-15	2.50		2.40		1	4		11/15/2024
Orthophosphate as P	mg/L	+/-15	5.10		4.90		1	4		11/15/2024
Sulfate	mg/L	+/-15	15.8		15.1		1	5		11/15/2024

Laboratory Control Sample Summary

Client:	EA Engineering Science & Technology	SDG No.:	P4846
Project:	Scotia, NY - Annual Testing	Run No.:	LB133464

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB133464BSW							
Bromide	mg/L	10	10.4		104	1	90-110	11/14/2024
Chloride	mg/L	3	3.10		103	1	90-110	11/14/2024
Fluoride	mg/L	2	2.10		105	1	90-110	11/14/2024
Nitrite	mg/L	3	3.10		103	1	90-110	11/14/2024
Nitrate	mg/L	2.5	2.60		104	1	90-110	11/14/2024
Sulfate	mg/L	15	15.4		103	1	90-110	11/14/2024
Orthophosphate as P	mg/L	5	5.20		104	1	90-110	11/14/2024

Laboratory Control Sample Summary

Client: EA Engineering Science & Technology

SDG No.: P4846

Project: Scotia, NY - Annual Testing

Run No.: LB133464

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB133464BSW2							
Bromide	mg/L	10	10.4		104	1	90-110	11/15/2024
Chloride	mg/L	3	3.10		103	1	90-110	11/15/2024
Fluoride	mg/L	2	2.10		105	1	90-110	11/15/2024
Nitrite	mg/L	3	3.10		103	1	90-110	11/15/2024
Nitrate	mg/L	2.5	2.60		104	1	90-110	11/15/2024
Sulfate	mg/L	15	15.4		103	1	90-110	11/15/2024
Orthophosphate as P	mg/L	5	5.20		104	1	90-110	11/15/2024

Laboratory Control Sample Summary

Client: EA Engineering Science & Technology

SDG No.: P4846

Project: Scotia, NY - Annual Testing

Run No.: LB133484

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB133484BSW							
TOC	mg/L	10	10.2		102	1	90-110	11/18/2024

Laboratory Control Sample Summary

Client:	EA Engineering Science & Technology	SDG No.:	P4846
Project:	Scotia, NY - Annual Testing	Run No.:	LB133515

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB133515BSW							
Alkalinity	mg/L	50	43.6		87	1	80-120	11/19/2024

Laboratory Control Sample Summary

Client: EA Engineering Science & Technology

SDG No.: P4846

Project: Scotia, NY - Annual Testing

Run No.: LB133517

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB133517BS							
Alkalinity	mg/L	50	52.6		105	1	80-120	11/19/2024