



SAMPLE DATA

Report of Analysis

Client:	G Environmental	Date Collected:	08/25/25 00:00
Project:	Buff	Date Received:	08/26/25
Client Sample ID:	MW3	SDG No.:	Q2964
Lab Sample ID:	Q2964-02	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Alkalinity	130		1	1.00	2.00	mg/L		08/28/25 11:50	SM 2320 B-21
Sulfate	5390	OR	1	0.46	3.00	mg/L		08/26/25 15:51	300.0

Comments: The alkalinity to pH 4.44=130 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:	G Environmental	Date Collected:	08/25/25 00:00
Project:	Buff	Date Received:	08/26/25
Client Sample ID:	MW3DL	SDG No.:	Q2964
Lab Sample ID:	Q2964-02DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Sulfate	4650	D	200	92.0	600	mg/L		08/27/25 18:03	300.0

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: G Environmental

SDG No.: Q2964

Project: Buff

RunNo.: LB136953

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1						
Bromide	mg/L	10.3	10	103	90-110	08/06/2025
Chloride	mg/L	3.2	3	107	90-110	08/06/2025
Fluoride	mg/L	2	2	100	90-110	08/06/2025
Nitrite	mg/L	3.1	3	103	90-110	08/06/2025
Nitrate	mg/L	2.6	2.5	104	90-110	08/06/2025
Sulfate	mg/L	15.4	15	103	90-110	08/06/2025
Orthophosphate as P	mg/L	5	5	100	90-110	08/06/2025
Sample ID: CCV1						
Bromide	mg/L	10	10	100	90-110	08/26/2025
Chloride	mg/L	3	3	100	90-110	08/26/2025
Fluoride	mg/L	2	2	100	90-110	08/26/2025
Nitrite	mg/L	2.9	3	97	90-110	08/26/2025
Nitrate	mg/L	2.5	2.5	100	90-110	08/26/2025
Sulfate	mg/L	14.9	15	99	90-110	08/26/2025
Orthophosphate as P	mg/L	4.7	5	94	90-110	08/26/2025
Sample ID: CCV2						
Bromide	mg/L	10	10	100	90-110	08/26/2025
Chloride	mg/L	3	3	100	90-110	08/26/2025
Fluoride	mg/L	2	2	100	90-110	08/26/2025
Nitrite	mg/L	3	3	100	90-110	08/26/2025
Nitrate	mg/L	2.5	2.5	100	90-110	08/26/2025
Sulfate	mg/L	14.7	15	98	90-110	08/26/2025
Orthophosphate as P	mg/L	4.6	5	92	90-110	08/26/2025
Sample ID: CCV3						
Bromide	mg/L	11.9	10	119	90-110	08/26/2025
Chloride	mg/L	3.4	3	113	90-110	08/26/2025
Fluoride	mg/L	2.2	2	110	90-110	08/26/2025
Nitrite	mg/L	3.3	3	110	90-110	08/26/2025
Nitrate	mg/L	2.9	2.5	116	90-110	08/26/2025
Sulfate	mg/L	16.6	15	111	90-110	08/26/2025
Orthophosphate as P	mg/L	5.9	5	118	90-110	08/26/2025
Sample ID: CCV4						
Bromide	mg/L	10.6	10	106	90-110	08/27/2025
Chloride	mg/L	3.2	3	107	90-110	08/27/2025
Fluoride	mg/L	2.1	2	105	90-110	08/27/2025
Nitrite	mg/L	3.1	3	103	90-110	08/27/2025
Nitrate	mg/L	2.6	2.5	104	90-110	08/27/2025
Sulfate	mg/L	15.5	15	103	90-110	08/27/2025

Initial and Continuing Calibration Verification

Client: G Environmental

SDG No.: Q2964

Project: Buff

RunNo.: LB136953

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Orthophosphate as P	mg/L	4.6	5	92	90-110	08/27/2025
Sample ID: CCV5						
Bromide	mg/L	12.1	10	121	90-110	08/27/2025
Chloride	mg/L	3.7	3	123	90-110	08/27/2025
Fluoride	mg/L	2.4	2	120	90-110	08/27/2025
Nitrite	mg/L	3.5	3	117	90-110	08/27/2025
Nitrate	mg/L	3	2.5	120	90-110	08/27/2025
Sulfate	mg/L	17.7	15	118	90-110	08/27/2025
Orthophosphate as P	mg/L	6.2	5	124	90-110	08/27/2025

Initial and Continuing Calibration Blank Summary

Client: G Environmental

SDG No.: Q2964

Project: Buff

RunNo.: LB136953

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1							
Bromide	mg/L	< 1.0000	1.0000	U	0.37	2	08/06/2025
Chloride	mg/L	< 0.3000	0.3000	U	0.19	0.6	08/06/2025
Fluoride	mg/L	< 0.2000	0.2000	U	0.11	0.4	08/06/2025
Nitrite	mg/L	< 0.3000	0.3000	U	0.074	0.6	08/06/2025
Nitrate	mg/L	< 0.2500	0.2500	U	0.095	0.5	08/06/2025
Sulfate	mg/L	< 1.5000	1.5000	U	0.46	3	08/06/2025
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.34	1	08/06/2025
Sample ID: CCB1							
Bromide	mg/L	< 1.0000	1.0000	U	0.37	2	08/26/2025
Chloride	mg/L	< 0.3000	0.3000	U	0.19	0.6	08/26/2025
Fluoride	mg/L	< 0.2000	0.2000	U	0.11	0.4	08/26/2025
Nitrite	mg/L	< 0.3000	0.3000	U	0.074	0.6	08/26/2025
Nitrate	mg/L	< 0.2500	0.2500	U	0.095	0.5	08/26/2025
Sulfate	mg/L	< 1.5000	1.5000	U	0.46	3	08/26/2025
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.34	1	08/26/2025
Sample ID: CCB2							
Bromide	mg/L	< 1.0000	1.0000	U	0.37	2	08/26/2025
Chloride	mg/L	< 0.3000	0.3000	U	0.19	0.6	08/26/2025
Fluoride	mg/L	< 0.2000	0.2000	U	0.11	0.4	08/26/2025
Nitrite	mg/L	< 0.3000	0.3000	U	0.074	0.6	08/26/2025
Nitrate	mg/L	< 0.2500	0.2500	U	0.095	0.5	08/26/2025
Sulfate	mg/L	< 1.5000	1.5000	U	0.46	3	08/26/2025
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.34	1	08/26/2025
Sample ID: CCB3							
Bromide	mg/L	1	1.0000	J	0.37	2	08/26/2025
Chloride	mg/L	< 0.3000	0.3000	U	0.19	0.6	08/26/2025
Fluoride	mg/L	< 0.2000	0.2000	U	0.11	0.4	08/26/2025
Nitrite	mg/L	< 0.3000	0.3000	U	0.074	0.6	08/26/2025
Nitrate	mg/L	< 0.2500	0.2500	U	0.095	0.5	08/26/2025
Sulfate	mg/L	< 1.5000	1.5000	U	0.46	3	08/26/2025
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.34	1	08/26/2025
Sample ID: CCB4							
Bromide	mg/L	< 1.0000	1.0000	U	0.37	2	08/27/2025
Chloride	mg/L	< 0.3000	0.3000	U	0.19	0.6	08/27/2025
Fluoride	mg/L	< 0.2000	0.2000	U	0.11	0.4	08/27/2025
Nitrite	mg/L	< 0.3000	0.3000	U	0.074	0.6	08/27/2025
Nitrate	mg/L	< 0.2500	0.2500	U	0.095	0.5	08/27/2025
Sulfate	mg/L	< 1.5000	1.5000	U	0.46	3	08/27/2025
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.34	1	08/27/2025
Sample ID: CCB5							
Bromide	mg/L	< 1.0000	1.0000	U	0.37	2	08/27/2025
Chloride	mg/L	< 0.3000	0.3000	U	0.19	0.6	08/27/2025
Fluoride	mg/L	< 0.2000	0.2000	U	0.11	0.4	08/27/2025

Initial and Continuing Calibration Blank Summary

Client: G Environmental

SDG No.: Q2964

Project: Buff

RunNo.: LB136953

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Nitrite	mg/L	< 0.3000	0.3000	U	0.074	0.6	08/27/2025
Nitrate	mg/L	< 0.2500	0.2500	U	0.095	0.5	08/27/2025
Sulfate	mg/L	< 1.5000	1.5000	U	0.46	3	08/27/2025
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.34	1	08/27/2025

Preparation Blank Summary

Client: G Environmental

SDG No.: Q2964

Project: Buff

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: LB136953BLW							
Bromide	mg/L	< 1.0000	1.0000	U	0.37	2	08/26/2025
Chloride	mg/L	< 0.3000	0.3000	U	0.19	0.6	08/26/2025
Fluoride	mg/L	< 0.2000	0.2000	U	0.11	0.4	08/26/2025
Nitrite	mg/L	< 0.3000	0.3000	U	0.074	0.6	08/26/2025
Nitrate	mg/L	< 0.2500	0.2500	U	0.095	0.5	08/26/2025
Sulfate	mg/L	< 1.5000	1.5000	U	0.46	3	08/26/2025
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.34	1	08/26/2025
Sample ID: LB136953BLW2							
Bromide	mg/L	< 1.0000	1.0000	U	0.37	2	08/27/2025
Chloride	mg/L	< 0.3000	0.3000	U	0.19	0.6	08/27/2025
Fluoride	mg/L	< 0.2000	0.2000	U	0.11	0.4	08/27/2025
Nitrite	mg/L	< 0.3000	0.3000	U	0.074	0.6	08/27/2025
Nitrate	mg/L	< 0.2500	0.2500	U	0.095	0.5	08/27/2025
Sulfate	mg/L	< 1.5000	1.5000	U	0.46	3	08/27/2025
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.34	1	08/27/2025
Sample ID: LB136993BLW							
Alkalinity	mg/L	< 1.0000	1.0000	U	1	2	08/28/2025

Matrix Spike Summary

Client:	G Environmental	SDG No.:	Q2964
Project:	Buff	Sample ID:	Q2954-11
Client ID:	BRIDGEMS	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	10.3		0.37	U	10	1	103		08/26/2025
Chloride	mg/L	80-120	158	OR	162	OR	3	1	-133	*	08/26/2025
Fluoride	mg/L	80-120	2.30		0.25	J	2	1	103		08/26/2025
Nitrite	mg/L	80-120	3.00		0.074	U	3	1	100		08/26/2025
Nitrate	mg/L	80-120	2.70		0.23	J	2.5	1	99		08/26/2025
Sulfate	mg/L	80-120	43.0	OR	28.8		15	1	95		08/26/2025
Orthophosphate as P	mg/L	80-120	5.00		0.34	U	5	1	100		08/26/2025

Matrix Spike Summary

Client:	G Environmental	SDG No.:	Q2964
Project:	Buff	Sample ID:	Q2954-11
Client ID:	BRIDGEMSD	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	9.90		0.37	U	10	1	99		08/26/2025
Chloride	mg/L	80-120	157	OR	162	OR	3	1	-167	*	08/26/2025
Fluoride	mg/L	80-120	2.20		0.25	J	2	1	98		08/26/2025
Nitrite	mg/L	80-120	2.90		0.074	U	3	1	97		08/26/2025
Nitrate	mg/L	80-120	2.60		0.23	J	2.5	1	95		08/26/2025
Sulfate	mg/L	80-120	42.4	OR	28.8		15	1	91		08/26/2025
Orthophosphate as P	mg/L	80-120	4.80		0.34	U	5	1	96		08/26/2025

Duplicate Sample Summary

Client:	G Environmental	SDG No.:	Q2964
Project:	Buff	Sample ID:	Q2954-11
Client ID:	BRIDGEMSD	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
Chloride	mg/L	+/-20	158	OR	157	OR	1	1		08/26/2025
Sulfate	mg/L	+/-20	43.0	OR	42.4	OR	1	1		08/26/2025
Nitrite	mg/L	+/-20	3.00		2.90		1	3		08/26/2025
Bromide	mg/L	+/-20	10.3		9.90		1	4		08/26/2025
Fluoride	mg/L	+/-20	2.30		2.20		1	4		08/26/2025
Nitrate	mg/L	+/-20	2.70		2.60		1	4		08/26/2025
Orthophosphate as P	mg/L	+/-20	5.00		4.80		1	4		08/26/2025

Duplicate Sample Summary

Client:	G Environmental	SDG No.:	Q2964
Project:	Buff	Sample ID:	Q2964-02
Client ID:	MW3DUP	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	130		131		1	1		08/28/2025

Laboratory Control Sample Summary

Client: G Environmental

SDG No.: Q2964

Project: Buff

Run No.: LB136953

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB136953BSW							
Bromide	mg/L	10	9.90		99	1	90-110	08/26/2025
Chloride	mg/L	3	3.00		100	1	90-110	08/26/2025
Fluoride	mg/L	2	2.00		100	1	90-110	08/26/2025
Nitrite	mg/L	3	3.00		100	1	90-110	08/26/2025
Nitrate	mg/L	2.5	2.50		100	1	90-110	08/26/2025
Sulfate	mg/L	15	14.9		99	1	90-110	08/26/2025
Orthophosphate as P	mg/L	5	4.90		98	1	90-110	08/26/2025

Laboratory Control Sample Summary

Client: G Environmental

SDG No.: Q2964

Project: Buff

Run No.: LB136953

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB136953BSW2							
Bromide	mg/L	10	10.5		105	1	90-110	08/27/2025
Chloride	mg/L	3	3.20		107	1	90-110	08/27/2025
Fluoride	mg/L	2	2.10		105	1	90-110	08/27/2025
Nitrite	mg/L	3	3.10		103	1	90-110	08/27/2025
Nitrate	mg/L	2.5	2.60		104	1	90-110	08/27/2025
Sulfate	mg/L	15	15.4		103	1	90-110	08/27/2025
Orthophosphate as P	mg/L	5	4.70		94	1	90-110	08/27/2025

Laboratory Control Sample Summary

Client: G Environmental

SDG No.: Q2964

Project: Buff

Run No.: LB136993

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB136993BSW							
Alkalinity	mg/L	50	53.7		107	1	80-120	08/28/2025

Instrument ID: IC-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB136953

Review By	rubina	Review On	8/28/2025 12:08:21 PM
Supervise By	Sohil	Supervise On	8/28/2025 12:09:33 PM
SubDirectory	LB136953	Test	Anions
STD. NAME	STD REF.#		
ICAL Standard	WP114185,WP114186,WP114187,WP114188,WP114189,WP114190,WP114191		
ICV Standard	WP114192		
CCV Standard	WP114433		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP114432		
Chk Standard	WP114193,WP114194		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	STD1	STD1	CAL1	08/06/25 10:18	All standards, samples, and	RM/IZ	OK
2	STD2	STD2	CAL2	08/06/25 10:40	QC are filtered through	RM/IZ	OK
3	STD3	STD3	CAL3	08/06/25 11:01	0.45um, filter lot W3160	RM/IZ	OK
4	STD4	STD4	CAL4	08/06/25 11:23		RM/IZ	OK
5	STD5	STD5	CAL5	08/06/25 11:44		RM/IZ	OK
6	STD6	STD6	CAL6	08/06/25 12:06		RM/IZ	OK
7	STD7	STD7	CAL7	08/06/25 12:27		RM/IZ	OK
8	ICV1	ICV1	ICV	08/06/25 12:48		RM/IZ	OK
9	ICB1	ICB1	ICB	08/06/25 13:10		RM/IZ	OK
10	CCV1	CCV1	CCV	08/26/25 10:12		RM/IZ	OK
11	CCB1	CCB1	CCB	08/26/25 10:34		RM/IZ	OK
12	LB136953BLW	LB136953BLW	MB	08/26/25 10:55		RM/IZ	OK
13	LB136953BSW	LB136953BSW	LCS	08/26/25 11:17		RM/IZ	OK
14	Q2954-11	BRIDGE	SAM	08/26/25 11:38		RM/IZ	OK
15	Q2954-11MS	BRIDGEMS	MS	08/26/25 12:00	9.5ml of sample, 0.5mL W3092	RM/IZ	OK
16	Q2954-11MSD	BRIDGEMSD	MSD	08/26/25 12:21	9.5ml of sample, 0.5mL W3092	RM/IZ	OK
17	CCV2	CCV2	CCV	08/26/25 12:43		RM/IZ	OK
18	CCB2	CCB2	CCB	08/26/25 13:04		RM/IZ	OK

Instrument ID: IC-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB136953

Review By	rubina	Review On	8/28/2025 12:08:21 PM
Supervise By	Sohil	Supervise On	8/28/2025 12:09:33 PM
SubDirectory	LB136953	Test	Anions
STD. NAME	STD REF.#		
ICAL Standard	WP114185,WP114186,WP114187,WP114188,WP114189,WP114190,WP114191		
ICV Standard	WP114192		
CCV Standard	WP114433		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP114432		
Chk Standard	WP114193,WP114194		

19	Q2964-02	MW3	SAM	08/26/25 15:51	SO4 high	RM/IZ	Dilution
20	CCV3	CCV3	CCV	08/26/25 16:56		RM/IZ	OK
21	CCB3	CCB3	CCB	08/26/25 17:18		RM/IZ	OK
22	CCV4	CCV4	CCV	08/27/25 08:54		RM/IZ	OK
23	CCB4	CCB4	CCB	08/27/25 09:15		RM/IZ	OK
24	LB136953BLW2	LB136953BLW2	MB	08/27/25 09:37		RM/IZ	OK
25	LB136953BSW2	LB136953BSW2	LCS	08/27/25 09:58		RM/IZ	OK
26	Q2964-02DL	MW3DL	SAM	08/27/25 18:03	Report 200X for SO4	RM/IZ	Confirms
27	CCV5	CCV5	CCV	08/27/25 19:09		RM/IZ	OK
28	CCB5	CCB5	CCB	08/27/25 21:22		RM/IZ	OK

Instrument ID: TITRATOR

Daily Analysis Runlog For Sequence/QC Batch ID # LB136993

Review By	rubina	Review On	8/29/2025 4:09:43 PM
Supervise By	Iwona	Supervise On	8/29/2025 4:15:43 PM
SubDirectory	LB136993	Test	Alkalinity
STD. NAME	STD REF.#		
ICAL Standard	N/A		
ICV Standard	N/A		
CCV Standard	N/A		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP114472		
Chk Standard	W3217,W3178,W3150		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB136993BLW	LB136993BLW	MB	08/28/25 11:40	pH=3.86	Eman	OK
2	LB136993BSW	LB136993BSW	LCS	08/28/25 11:44	pH=4.45	Eman	OK
3	Q2964-02	MW3	SAM	08/28/25 11:50	pH=4.44	Eman	OK
4	Q2964-02DUP	MW3DUP	DUP	08/28/25 11:55	pH=4.38	Eman	OK

LAB CHRONICLE

OrderID:	Q2964	OrderDate:	8/26/2025 2:35:00 PM
Client:	G Environmental	Project:	Buff
Contact:	Gary Landis	Location:	D41,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2964-02	MW3	WATER			08/25/25 00:00			08/26/25
			Alkalinity	SM2320 B			08/28/25 11:50	
			Anions Group1	300.0			08/26/25 15:51	
Q2964-02DL	MW3DL	WATER			08/25/25 00:00			08/26/25
			Anions Group1	300.0			08/27/25 18:03	