

March 6th, 2024

Ms. Sherrel Henry Remedial Project Manager U.S. Environmental Protection Agency 290 Broadway – 20th Floor New York, New York 10007-1866

Re: Peter Cooper Markhams Site, Dayton, NY

December 2023 Post-Remedial Groundwater Monitoring Event (Revised April 12, 2024)

Dear Ms. Henry:

On behalf of the cooperating Potentially Responsible Parties (cPRPs) for the above-referenced site, Roux Environmental Engineering and Geology, D.P.C. ("Roux") (Formally Benchmark Civil/Environmental Engineering & Geology, PLLC) has prepared this letter report to transmit the results of the December 2023 post-remedial groundwater monitoring event at the Peter Cooper Markhams Site in Dayton, New York (see Figure 1). A site maintenance summary is also included in this report. The work was performed in accordance with the approved (June 2009) Post-Remedial Operation, Maintenance and Monitoring (OM&M) Plan. Groundwater and surface water monitoring requirements are presented on Table 1.

Field Sampling Procedure

On December 21st, 2023, Roux staff collected a round of static water level measurements from the seven monitoring wells shown on Figure 2; measurements and groundwater elevations are summarized on Table 2. Groundwater samples were collected from on-site monitoring wells MW-5S, MW-7S, MW-8S, MW-9S and a surface water sample from Wetland F.

The monitoring wells were sampled using a Mini-Typhoon® submersible pump and dedicated PVC tubing in accordance with low-flow groundwater purging procedures. Field measurements for pH, Eh, specific conductance, temperature, turbidity, and visual/ olfactory observations were recorded and monitored for stabilization. Purging was considered complete when pH, specific conductivity, and temperature stabilized, and the turbidity measured below or stabilized above 50 NTU. Stability is defined as the variation between field measurements of 10 percent or less with no overall upward or downward trend in the measurements. Once the field parameters stabilized, groundwater samples were collected and analyzed for the parameters presented on Table 1. The submersible pump was decontaminated using Alconox and water following sample collection activities at each well. The Wetland F sample was obtained by dipping a laboratory-provided unpreserved sample container into the surface water column.

Attachment 1 includes sample collection logs. All water samples were transferred to laboratory supplied, pre-preserved sample containers and transported under chain-of-custody command to Eurofins Test America Laboratories for analysis in accordance with Table 1.

Analytical Results

Attachment 2 includes the laboratory analytical data for the December 21st, 2023, sampling event. Routine parameters detected above method detection limits are shown on Table 3 with their associated sample concentrations. NYSDEC Groundwater Quality Standards and Guidance Values (GWQS/GV; TOGS 1.1.1, June 1998) are presented for comparison. Concentrations exceeding the GWQS/GVs are highlighted. As indicated on Table 3, sample concentrations were reported as non-detect or below GWQS/GV at all the monitored locations with the exceptions of: total manganese at MW-5S and MW-8S, ammonia at MW-5S; total and dissolved iron at MW-7S and total iron at Wetland F.

Historical Comparisons

Table 3 includes routine groundwater monitoring results for past monitoring events. Charts showing trending of the monitored parameters (excluding arsenic, hexavalent chromium, and sulfide, which are consistently reported as non-detect or only sporadically at all locations) are presented in Attachment 3. In general, the data indicate similar concentrations for the monitored parameters at each of the sampling locations, with no apparent trending except for an increase in ammonia at MW-5S. Although, ammonia concentrations at MW-5S did show a significant decrease from the September 2022 monitoring event, concentrations remain elevated above GWQS. No other parameters have shown similar trending at MW-5S, which is in a topographically low area where significant leaf accumulation/decay has been observed and the groundwater elevation is within a few inches of ground surface.

Data Quality

Site-specific quality control (QC) sampling during each event included the collection of one blind duplicate sample (collected from MW-5S) and one matrix spike/matrix spike duplicate (MS/MSD) sample (collected from MW-9S) for total metal analysis only. Recoveries for the MS/MSDs were within the acceptable ranges with good reproducibility. Blind duplicate results correlated well with MW-5S results.

Groundwater Elevation Data

Groundwater monitoring includes a round of static water level measurements from seven monitoring wells across the site. Table 2 includes groundwater elevation data for the 2023 monitoring year. An isopotential map representing the shallow groundwater was prepared from the December 21st, 2023, depth-to-groundwater measurements and is presented as Figure 2. Based on those measurements, the inferred groundwater flow directions indicate that shallow groundwater migrates to the west towards Wetland F, which is consistent with observations recorded during the site Remedial Investigation.

Annual Maintenance Summary Report

Post remedial site inspections have been performed during each groundwater monitoring event since June 2009. The December 2023 site inspection indicated no irregularities or changes to the property access or security. The final cover system appears in good condition, with the gas vent monitoring system intact and operational. Overgrown vegetation near and along access paths to the monitoring well locations were cut on September 30th, 2022 March 21st, 2023. A copy of the Field Inspection Form including a photolog is provided in Attachment 4.

Conclusions

The groundwater monitoring data and site inspection yielded no evidence of significant impact from leaching from the containment cell area into the water table. In addition, no toxic metals (arsenic, chromium, hexavalent chromium) were detected above their representative GWQS/GVs at any of the sample locations. Accordingly, the data indicate that the implemented remedy at the Site remains protective of public health and the environment.

More specifically, the 2023 groundwater monitoring data compared to prior events indicate that there have been no significant changes in groundwater flow or groundwater quality attributable to the landfill. Although groundwater at MW-5S indicates levels of ammonia slightly above the GWQS/GVs standard since 2015, no other monitored parameters have shown similar trending. It is noted that groundwater elevations at MW-5S are close to grade, and the elevated ammonia levels detected in MW-5S may be attributed to the decaying of organic matter from surrounding trees and leaf debris.

The electronic data delivery (EDD) format is currently being uploaded to NYSDEC's EQuIS database. The next sampling event is in March of 2025.

Please contact us if you have any questions or require additional information.

Sincerely,

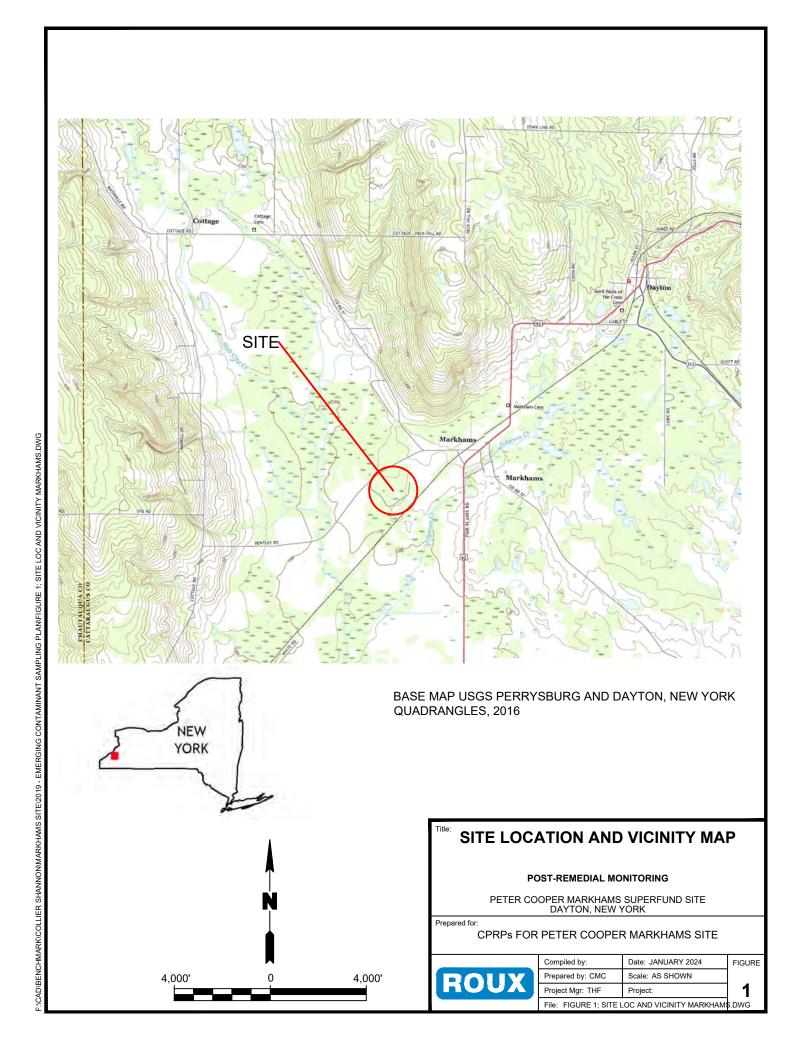
ROUX ENVIRONMENTAL ENGINEERING AND GEOLOGY, D.P.C

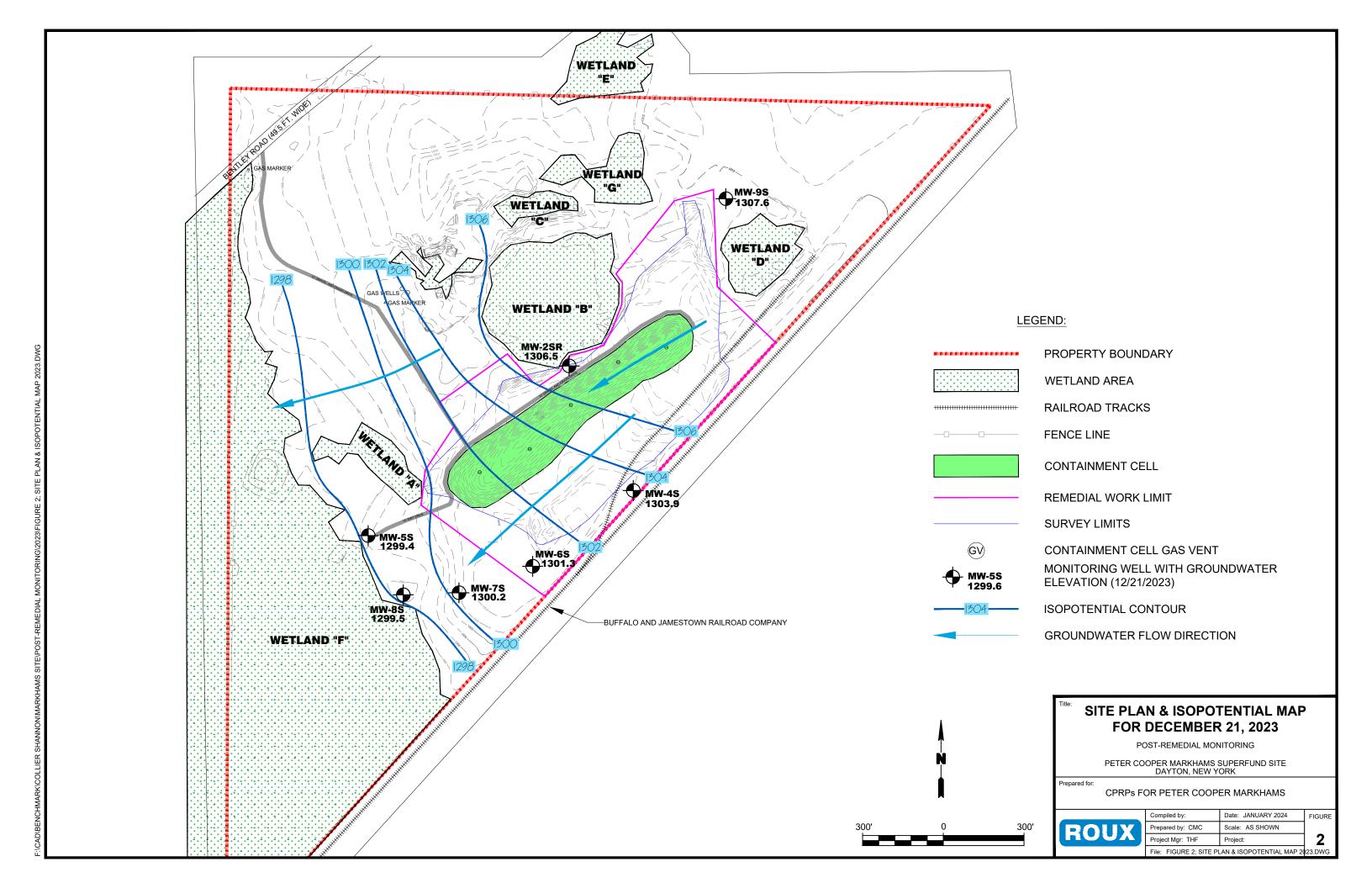
Thomas H. Forbes, P.E.

Principal Engineer, Vice President

Enclosure

FIGURES







MONITORING PROGRAM REQUIREMENTS

December 2023 Monitoring Event Peter Cooper Markhams Site Dayton, New York

							Param	neters				
Sample Location	Frequency	DTW	Field ¹			Total Metals	2			Water	Quality	
Location		DIW	rieia	As	Cr	Hex. Cr.	Mn	Fe	Ammonia	Nitrate	Alkalinity	T. Sulfide
Groundwater												
MW-2SR (cross-gradient)		Х										
MW-4S		Х										
MW-5S		Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
MW-6S	15-month	Х										
MW-7S		Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
MW-8S]	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
MW-9S (upgradient)		Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
Surface Water	•											
Wetland F (surface water)	15-month		Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
QA/QC Samples ³												
Blind Duplicate				Х	Х	Х	Х	Х				
Matrix Spike	15-month	_		Х	Х	Х	Х	Х				
Matrix Spike Duplicate		_		Х	Х	Х	Х	Х				

Notes:

- 1. Field measurements include: pH, temperature, specific conductance, turbidity, Eh
- 2. If field measured turbidity is greater than 50 NTU, dissolved metals will also be collected.
- 3. QA/QC samples will be collected at a frequency of 1 per 20 for each matrix.
- 4. DTW = depth to water



SUMMARY OF GROUNDWATER ELEVATIONS 12/21/23

Monitoring Event Peter Cooper Markhams Site Dayton, New York

Location	TOR Elevation (fmsl)	DTW (fbTOR)	GWE (fmsl)
MW-2SR	1313.33	6.83	1306.50
MW-4S	1313.11	9.18	1303.93
MW-5S	1302.70	3.26	1299.44
MW-6S	1315.47	14.15	1301.32
MW-7S	1312.82	12.61	1300.21
MW-8S	1304.10	4.58	1299.52
MW-9S	1314.13	6.50	1307.63

Notes:

- 1. DTW = depth to water
- 2. fbTOR = feet below top of riser
- 3. fmsl = feet above mean sea level
- 4. GWE = groundwater elevation
- 5. TOR = top of riser



SUMMARY OF GROUNDWATER ANALYTICAL RESULTS 1,2

December 2023 Monitoring Event Peter Cooper Markhams Site Dayton, New York

													M	onitorin	g Locat	ion and	l Sampl	le Colle	ction D	ate													
Parameter																MW	/-5S																GWQS ⁴
	04/2	5/02	06/	19/09	12/	30/09	05/2	8/10	06/2	2/11	06/2	26/12	06/	24/13	06/2	4/14	10/2	27/15	10/2	26/16	10/2	0/17	10/1	9/18	02/0)5/20	06/2	23/21	09/3	30/22	12/2	21/23	
Field Measurements 3:																																	
Sample No.	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	
pH (units)		6.81	6.75	6.78	6.58	6.68	6.80	6.86	6.90	7.00	6.88	6.88	6.89	6.92	7.12	7.13	6.92	6.92	6.69	6.70	6.91	6.88	6.89	7.12	6.94	6.92	6.86	6.98	6.75	6.78	6.80	6.79	6.5 - 8.5
Temperature (°C)		7.14	11.4	11.7	6.3	6.2	14.3	14.9	14.2	14.5	12.8	13.2	12.9	13.3	12.8	13.6	12.3	12.3	12.7	12.7	13.8	13.7	13.2	12.1	4.4	4.3	12.1	13.1	13.2	13.2	7.9	7.8	NA
Sp. Conductance (mS)		822	1004	993	1099	1090	985	966	1035	1029	1005	1008	955	941	986	974	1041	1048	1050	1062	947	949	1207	1234	879	908	992	978	1092	1111	1019	1026	NA
Turbidity (NTU)		2	4.6	2.4	2.9	2.9	37	5.47	4.29	3.11	4.04	3.42	9.82	5.32	8.77	6.79	5.53	5.53	4.39	2.77	1.96	1.53	10	6	31.5	25	8.91	1.4	7.84	7.8	8.03	9.01	NA
Eh (mV)		67.3	69	70	-29	-20	-38	21	-9	15	15	30	105	100	150	130	59	82	108	100	155	154	70	88	135	130	230	286	232	232	107	108	NA
Wet Chemistry (mg/L):																																	
Alkalinity, Total	N	IA	53	8 D	47	'0 D	471	D	4	78	4	73	4	174	4	89	5	18	4	86	5	11	5	17	45	3 B	4	69	6	14	49	92	NA
Ammonia	N	ID	1	ND	0.	047	Ν	D	N	ID	().2	0	.13	C	.4	1	.2	3	3.5	3	.6	6	.5	12	2.9	17	.2 B	20	0.4	8	3.3	2
Nitrate (as Nitrogen)	2	.8	0.	271	0.	347	0.443	CF6	N	ID	0	.23	•	1.2	١	ID	1	.4	1	4.1	1	.2	0.	43	12	2.7	1	.9	0.	12	7	7.2	10
Total Inorganic Compounds	(mg/L):																																
Chromium	N	ID	0.0	0056	1	ND	N	D	0.0	064	0.	005	0.0	0051	0.0	047	0.0	042	0.0	0054	N	D	0.0	004	0.0	004	0.0	042	0.0	044	0.0	004	0.05
Hexavalent Chromium	N	ID	1	ND.	1	ND	Ν	D	N	ID	1	ND.	١	ND.	١	ID	١	ND	1	ND.	N	ID	N	ID	N	1D	١	ND	N	ID	0.0	012	0.05
Manganese	N	IA	1	.61	1	.45	1.	50	1.	80	1	1.6		1.7	2	.6	2	2.3	2	2.2	1	.9	2	.2	4	.5	2.	5 B	2.	3 B	2	2.3	0.3
Iron	N	IA	0.	408	0.	128	0.5	808	0.5	560	().2	0.	.053	0.	41	0	.49	0	.17	0.0	91	0.	16	1	.2	0	.59	0.0)2 J	0.	.12	0.3
Soluble Inorganic Compoun	ds (mg/L):																																
Chromium	N	IA	1	NA		NA	N	A	N	IA	1	NΑ	1	NA	N	IA	1	۱A	1	NΑ	N	IA	0.0	004	N	1A	1	NΑ	l N	IA	N	۱A	0.05
Manganese	N	IA	1	NΑ		NA	N	A	N	IA	1	NΑ	1	NA	١	IA	1	۱A	1	NΑ	N	IA	1	.6	١	IA	١	NΑ	N	IA	N	۱A	0.3

- 1. Only those compounds detected above the method detection limit at a minimum of one sample event are reported in this table.
- 2. Shaded and bolded values represent an exceedance of the GWQS/GV.
- 3. Field measurements were collected immediately before and after groundwater sample collection.
- 4. NYSDEC Class "GA" Groundwater Quality Standards (GWQS) per 6 NYCRR Part 703.

- B = Compound was found in the blank and sample.
- J = Estimated value
- NA = Not analyzed
- ND = Parameter was not detected above laboratory reporting limit.
 D = Dilution required due to high concentration of target analyte(s).
- P = Sample filtered in the laboratory
- CF6 = Results confirmed by reanalysis.



SUMMARY OF GROUNDWATER ANALYTICAL RESULTS 1,2

December 2023 Monitoring Event Peter Cooper Markhams Site Dayton, New York

														Monito	ing Loc	ation a	nd Sam	ple Col	lection	Date													
Parameter																N	/W-7S																GWQS ⁴
	04/2	4/02	06/1	19/09	12/3	30/09	05/2	8/10	06/22	2/11	06/2	26/12	06/	24/13	06/2	4/14	10/2	7/15	10/2	26/16	10/2	20/17	10/1	19/18	02/0	05/20	06/2	23/21	09/3	0/22	12/2	1/23	
Field Measurements 3:																																	
Sample No.	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	
pH (units)		6.80	6.74	6.79	6.77	6.82	6.79	6.78	6.31	6.41	6.80	6.78		7.23	7.06	7.05	7.02	7.03	6.91	7.00	7.05	7.07	7.04	(5)	7.03	7.01	6.95	6.96	6.92	6.93	6.96	6.96	6.5 - 8.5
Temperature (°C)		8.77	9.6	10.1	5.4	7.7	15.0	15.1	13.7	13.4	9.8	9.7		12.8	13.10	12.9	11.00	11.1	10.60	10.5	11.70	12.7	11.00	(5)	7.4	7.6	14.8	13.9	11.4	11.3	9.7	9.7	NA
Sp. Conductance (mS)		1959	1753	1754	1804	1799	1687	1785	1771	1660	1786	1776		1632	1648	1621	1612	1619	1595	1603	1498	1492	1715	(5)	1349	1375	1327	1340	1331	1330	1312	1313	NA
Turbidity (NTU)		12.4	>1000	180	405	537	190	27	96.8	40.4	47.6	49.4		32.3	443	80	120	40.1	778	351	16.9	8.12	586	(5)	365	205	71	70	38.6	33.7	64.3	45.3	NA
Eh (mV)		170	-56	-62	-62	-64	-83	-114	-86	-92	-63	-66		-26	-25	-41	-60	-60	-36	-36	-84	-92	-61	(5)	-9	-10	-40	-38	50	43	-49	-51	NA
Wet Chemistry (mg/L):																																	
Alkalinity, Total	N	IA	51	9 D	58	36 D	44	6 D	43	8	4	37	4	·10	4	48	43	31	43	34	4	39	3	91	43	8 B	39	8 B	4	32	42	20	NA
Ammonia	N	ID	0.0	063	0.	.119	0.03	39 C	NI	D	N	ID	0.	031	0.0	069	0.0)2	0.0	033	١	ND	C).2	0	.2	0.01	18 JB	0.0	15 J	N	D	2
Nitrate (as Nitrogen)	N	ID	١	۷D	1	ND	١	ID	NI	D		ID	1	ND	N	ID	NI	D	N	I D	١	ND	١	1D	0.0)3 J	0.0)3 J	0	.2	0.03	37 J	10
Total Inorganic Compounds	(mg/L):																																
Chromium	N	ID	0.0	055	0.0	0050	0.0	046	0.00)56	0.0	057	0.0	0053	N	ID	NI	D	0.0	051	١	ND.	0.0	082	0.0	082	0.00)34 J	0.00	31 J	0.00	03 J	0.05
Hexavalent Chromium	N	ID	١	ND	1	ND	N	ID	NI	D	١	ID	١	1D	١	ID	NI	D	N	ID	١	ND	N	1D	N	1D	١	1D	0.0	06 J	0.	01	0.05
Manganese	N	IA	0.3	264	0.	.428	0.2	213	0.2	00	0.2	100	0	.19	0.	24	0.1	19	0.	23	0	.18	0.	.39	0.	26	0.2	21 B	0.1	7 B	0.	19	0.3
Iron	N	IA	1	04	8	3.3	17	7.8	25	.0	17	7.8	1	4.1	1:	29	17	7	61	1.1	1	0.3	2	37	2	25	3	32	10).9	11.1	l ^2	0.3
Soluble Inorganic Compound	ls (mg/L):																																
Chromium	N	IA	0.0	05 P	0.0	05 P	0.0	043	0.00)56	١	IA	1	NA	0.0	044	NI	D	N	1D	١	NA	N	1D	0.0	03 J	N	1D	N	Α	0.00	28 J	0.05
Manganese	N	IA	0.2	06 P	0.1	186 P	0.	193	0.	2	N	IA	1	NA	0.	19	0.1	17	0	.2	١	NA	0.	.17	0	.2	N	IA.	N	Α	0.1	5 B	0.3
Iron	N	IA	N	ND	1	ND	10.8	CF6	10	.2	N	IA	1	NΑ	9	.8	8.	3	1	10	1	NΑ	7	'. 5	0.	43	N	IA	N	Α	6	.5	0.3

Notes:

- 1. Only those compounds detected above the method detection limit at a minimum of one sample event are reported in this table.
- 2. Shaded and bolded values represent an exceedance of the GWQS/GV.
- 3. Field measurements were collected immediately before and after groundwater sample collection.
- NYSDEC Class "GA" Groundwater Quality Standards (GWQS) per 6 NYCRR Part 703.
- 5. Surface water was more turbid at time of metals collection.

- J = Estimated value
- B = Compound was found in the blank and sample.
- NA = Not analyzed
- ND = Parameter was not detected above laboratory reporting limit.
- D = Dilution required due to high concentration of target analyte(s).
- P = Sample filtered in the laboratory
- CF6 = Results confirmed by reanalysis.
- ^2 = Calibration Blank (ICB and/or CCB) is outside acceptance limits.
- F1 = MS and/or MSD recovery exceeds control limits.



SUMMARY OF GROUNDWATER ANALYTICAL RESULTS 1,2

December 2023 Monitoring Event Peter Cooper Markhams Site Dayton, New York

													M	onitorin	g Loca	tion an	d Samp	e Colle	ction D	ate													
Parameter																MV	V-8S																GWQS 4
	04/2	3/02	06/	19/09	12/3	30/09	05/2	8/10	06/2	2/11	06/2	6/12	06/2	24/13	06/2	24/14	10/2	7/15	10/2	26/16	10/2	0/17	10/1	9/18	02/2	20/20	06/2	23/21	09/3	30/22	12/2	21/23	
Field Measurements 3:																																	
Sample No.	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final													
pH (units)		6.90	6.90	6.92	6.65	6.70	7.04	6.25	6.67	6.72	6.89	6.97	7.01	7.01	7.27	7.17	6.96	6.95	6.82	6.73	7.00	6.97	6.88	7.32	7.27	7.14	7.04	7.12	6.90	6.90	6.96	6.95	6.5 - 8.5
Temperature (°C)		7.6	11.5	12.2	6.9	6.9	16.1	12.7	13.5	14.3	12.0	12.8	13.9	14.3	13.0	14.0	12.9	13.2	12.4	12.5	14.1	14.5	13.4	12.7	4.8	5.2	11.3	11.8	13.9	15.1	8.3	8.3	NA
Sp. Conductance (mS)		755	754	764	767	767	653	635	886	879	822	809	700	691	781	766	811.5	817.4	894.0	892.0	759.3	773.6	811.0	823.0	575.7	593.5	627.0	595.0	698.8	692.1	594.3	615.3	NA
Turbidity (NTU)		17	32	22	30	19	63	5.38	34.6	20	11.3	7.96	8.52	4.88	12.3	5.97	9.17	10.8	6.81	4.96	4.85	6.11	9	9	52.1	27.8	2.92	2.22	12.4	11.6	16.1	12.6	NA
Eh (mV)		4.6	80	81	7	15	21	41	48	59	4	72	92	84	162	183	81	102	108	106	133	124	68	77	104	96	241	218	211	198	107	106	NA
Wet Chemistry (mg/L):																																	
Alkalinity, Total	١	IA	29	1 D	28	5 D	300) D	3	55	3	72	2	66	2	86	3	35	4:	26	3	96	34	48	30	3 B	2	84	3	67	3	30	NA
Ammonia	0.	34	0.	038	0.	.04	0.0	042	0.0)28	١	ID	١	ID	١	1D	N	D	N	1D	١	ID	N	ID	N	1D	N	ID	١	ID .	١	1D	2
Nitrate (as Nitrogen)	14	4.6	9.4	l8 D	0.9	543	1.	98	2	.3	3	.8	6	.4		7		4	N	1D	0.	54	0.	82	6	5.9	8	.8	0.	16	0	.81	10
Total Inorganic Compounds	(mg/L):																																
Chromium	N	ID	1	ND.	N	ND	N	ID	0.0	093	0.0	044	N	D	1	1D	N	D	0.0	042	١	ID	N	ID	0.00	026 J	0.00)16 J	0.00)23 J	0.00)17 J	0.05
Hexavalent Chromium	N	ID	1	ND	N	ND	N	ID	N	ID	١	ID	N	D	1	1D	N	D	N	ID	N	ID	N	ID	0.00	059 J	N	ID	N	ID	0.	012	0.05
Manganese	١	IA	1	9.6	1.	.54	2.	34	14	.30		6	1	.4	1	.7	1	.5	1	.9	0.	64	0.	61	0.	.37	0.2	28 B	1.1	1 B	0	.49	0.3
Iron	N	IA	1	.93	N	ND	0.0	088	0.	61	0.	15	N	ID	0	.15	0.	11	0.0	097	N	ID	0.	12	0.	.91	0.0	47 J	0.0	079	0.0	35 J	0.3

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SUMMARY OF GROUNDWATER ANALYTICAL RESULTS 1,2

December 2023 Monitoring Event Peter Cooper Markhams Site Dayton, New York

													M	onitorin	g Loca	tion and	d Samp	le Colle	ction D	ate													
Parameter																MW	-9S ⁵																GWQS ⁴
	04/2	3/02	06/1	19/09	12/3	30/09	05/2	28/10	06/2	2/11	06/2	26/12	06/2	24/13	06/2	4/14	10/2	27/15	10/2	26/16	10/2	20/17	10/1	9/18	02/0)5/20	06/2	23/21	09/3	0/22	12/2	1/23	
Field Measurements 3:																																	
Sample No.	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final													
pH (units)		7.36	6.48	6.52	6.84	6.79	7.71	6.78	6.31	6.38	6.88	7.11	7.72	7.74	7.83	7.65	7.12	7.06	7.73	7.56	7.31	7.27	7.35	7.10	6.58	6.79	6.78	6.73	6.65	6.70	7.30	7.20	6.5 - 8.5
Temperature (°C)		6.02	12.2	12.6	6.5	5.4	12.2	12.4	15.7	16.1	13.0	13.4	14.6	15.3	12.8	14.0	12.6	12.7	12.9	12.9	13.0	13.2	12.7	12.4	4.6	4.6	11.8	11.9	14.6	14.6	8.9	8.7	NA
Sp. Conductance (mS)		540	337	337	369	369	402	299	266	280	297	274	320	301	381	417	364.7	342.9	402	400	423.4	416.8	368.0	386.0	322.8	341.2	339.0	335.0	303.4	305.5	413.6	406.1	NA
Turbidity (NTU)	-	11.2	6.2	4	2.43	2.02	18.6	2.98	7.26	9.45	9.51	5.84	12.5	10.4	24	14	1.66	2.38	0.7	0.23	0.96	0.89	13	10	23	20.9	2.99	2.99	6.05	8.39	1.5	1.56	NA
Eh (mV)		1.8	93	90	52	56	4	50	54	80	48	23	503	132	149	155	134	131	73	71	116	114	125	115	148	142	208	241	243	245	113	113	NA
Wet Chemistry (mg/L):																																	
Alkalinity, Total	l N	IA	98.	.4 D	98.	.8 D	73.	5 C	39	9.1	8	2.4	9:	2.2	90).5	1	16	1	29	1	37	10	06	10	14 B	81	.4 B	10	6 B	12	26	NA
Ammonia	ND	< 10	١	ND O	0.0	029	N	1D	١	ID	١	1D	١	ID .	N	ID	١	ND	١	1D	1	1D	N	ID	0.0	14 J	N	1D	١	ID	N	D	2
Nitrate (as Nitrogen)	9	.3	7.1	9 D	11.	.1 D	12.	1 D	1:	3.8	5	5.8	6	5.1	1:	3.7	8	3.6	5	5.5	5	5.4	8	.1	12	.7 H	1:	2.9	0.	31	5	.5	10
Total Inorganic Compounds	(mg/L):																																
Chromium	l N	ID	0.0	0051	N	ND	N	1D	N	ID	1	1D	١	ID	N	ID	N	ND	١	1D	1	ND	N	ID	0.00	018 J	l N	1D	N	ID	N	D	0.05
Hexavalent Chromium	N	ID	N	ND	N	ND	N	1D	N	ID	1	1D	N	ID	N	ID	N	ND	N	1D	1	1D	N	ID	١	ND	N	1D	١	ID	0.00	91 J	0.05
Manganese	N	IA	1.	.54	0.0	005	0.0	004	0.0	800	0.0	046	0.	018	0.0)21	0.0	037	0.0	037	0.0	076	0.0	007	0	.11	0.00	23 JB	0.000)55 JB	0.00	29 J	0.3
Iron	N	IA	0.	322	N	ND	0.0	076	0.0)77	0.	057	0	.13	0.	31	0.	053	N	1D).1	0.0	069	1	.9	0.0	31 J	١	ID	0.03	37 J	0.3

- 1. Only those compounds detected above the method detection limit at a minimum of one sample event are reported in this table.
- Shaded and bolded values represent an exceedance of the GWQS/GV.
- 3. Field measurements were collected immediately before and after groundwater sample collection.
- 4. NYSDEC Class "GA" Groundwater Quality Standards (GWQS) per 6 NYCRR Part 703.
- 5. Surface water was more turbid at time of metals collection.

- H = Sample was prepped or analyzed beyond the specified holding time.
- B = Compound was found in the blank and sample.
- J = Estimated value
- NA = Not analyzed
- ND = Parameter was not detected above laboratory reporting limit.
- D = Dilution required due to high concentration of target analyte(s).
- P = Sample filtered in the laboratory
 CF6 = Results confirmed by reanalysis.



SUMMARY OF GROUNDWATER ANALYTICAL RESULTS 1,2

December 2023 Monitoring Event Peter Cooper Markhams Site Dayton, New York

Parameter									Wetland-F	:							GWQS 4
	06/19/09	12/30/09	05/28/10	06/22/11	06/26/12	06/2	4/13	06/24/14	10/27/15	10/26/16	10/20/17	10/19/18	02/05/20	06/23/21	09/30/22	12/21/23	
Field Measurements 3:																	
Sample No.	Initial Final	Initial	Initial	Initial	Initial	Initial	Final	Initial	Initial	Initial	Initial	Initial	Initial	Initial	Initial	Initial	
pH (units)	7.24 7.24	6.04	7.45	7.27	(6)	7.70	7.70	7.13	7.42	(6)	7.18	7.34	6.94	(6)	7.37	7.20	6.5 - 8.5
Temperature (°C)	16.7 16.9	2.00	22.00	20.90	(6)	27.8	27.7	20.00	9.40	(6)	11.4	6	0.8	(6)	9.40	2.3	NA
Sp. Conductance (mS)	416 426	571.8	469.0	385.0	(6)	752.8	748.0	484.0	299.4	(6)	268.8	638	611	(6)	420.5	395.4	NA
Turbidity (NTU)	1.2 250	588	6.79	7.83	(6)			21.3	2.97 ⁵	(6)	250	8	203	(6)	857	21.6	NA
Eh (mV)	3 -42	-39	530	-1	(6)	97	89	86	11.8	(6)	112	-49	9	(6)	216	50	NA
Wet Chemistry (mg/L):																	
Alkalinity, Total	228 D	274 D	243 D	204	(6)	3:	25	260	110	(6)	120	253	260 B	(6)	179	91.2	NA
Ammonia	0.065	0.167	0.088	0.2	(6)	0.	20	0.090	.020	(6)	.070	0.034	0.37	(6)	0.080	ND	2
Nitrate (as Nitrogen)	7.9 D	ND	ND	3.8	(6)	N	ID	ND	ND	(6)	.27	ND	1.7	(6)	0.021 J	0.67	10
Sulfide, Total	0.173	ND	ND	ND	(6)	N	ID	ND	ND	(6)	ND	ND	1.2	(6)	ND	ND	0.05
Total Inorganic Compounds	(mg/L):																
Chromium	ND	0.006	ND	ND	(6)	0.0	045	0.0084	ND	(6)	.0041	ND	0.0049	(6)	0.0022 J	0.0022 J	0.05
Hexavalent Chromium	ND	ND	ND	ND	(6)	N	D	ND	ND	(6)	ND	ND	ND	(6)	0.0072 J	0.02 F1	0.05
Manganese	0.676	0.305	0.392	0.51	(6)	2	.9	0.76	2.5	(6)	1.0	0.86	0.84	(6)	1.8 B	0.13	0.3
Iron	0.647	6.14	0.715	0.94	(6)	0.	22	8.8	2.9	(6)	1.0	3.5	2.6	(6)	1.3	0.57 ^2	0.3
Soluble Inorganic Compound	ds (mg/L):																
Chromium	ND	ND	NA	ND	(6)	N	IA	ND	ND	(6)	ND	ND	ND	(6)	0.0017 J	NA	0.05
Hexavalent Chromium	NA	NA	NA	NA	(6)	N	IA	NA	NA	(6)	NA	NA	NA	(6)	0.0072 J	NA	0.05
Manganese	0.0116 P	0.0272 P	NA	ND	(6)	N	IA	0.0043	0.60	(6)	0.21	0.018	0.45	(6)	0.00087 J	NA	0.3
Iron	0.104 P	0.089 P	NA	0.07	(6)	N	IA	0.057	1.0	(6)	.0084	1.9	0.18	(6)	0.059	NA	0.3

- Only those compounds detected above the method detection limit at a minimum of one sample event are reported in this table.
 Shaded and bolded values represent an exceedance of the GWQS/GV.
- 3. Field measurements were collected immediately before and after groundwater sample collection.
- 4. NYSDEC Class "GA" Groundwater Quality Standards (GWQS) per 6 NYCRR Part 703. 5. Surface water was more turbid at time of metals collection.
- 6. Sample location was dry

- J = Estimated value
- B = Compound was found in the blank and sample. NA = Not analyzed
- ND = Parameter was not detected above laboratory reporting limit.
 D = Dilution required due to high concentration of target analyte(s).
- P = Sample filtered in the laboratory
- CF6 = Results confirmed by reanalysis.
- ^2 = Calibration Blank (ICB and/or CCB) is outside acceptance limits.
- F1 = MS and/or MSD recovery exceeds control limits.

ATTACHMENT 1 SAMPLE COLLECTION LOGS



SUMMARY OF GROUNDWATER ELEVATIONS

12121 123

Monitoring Event Peter Cooper Markhams Site Dayton, New York

Location	TOR		BATTER!
Location	Elevation (fmsl)	DTW (fbTOR)	GWE (fmsl)
MW-2SR	1313.33	6.83	1313.33
MW-4S	1313.11	9.18	1313.11
MW-5S	1302.70	3.26	1302.70
MW-6S	1315.47	14.15	1315.47
MW-7S	1312.82	12.61	1312.82
MW-8S	1304.10	458 458	1304.10
MW-9S	1314.13	6.50	1314.13

Notes:

- 1. DTW = depth to water
- 2. fbTOR = feet below top of riser
- 3. fmsl = feet above mean sea level
- 4. GWE = groundwater elevation
- 5. TOR = top of riser



EQUIPMENT CALIBRATION LOG

PROJECT INFORMATION: Project Name: Machines	N:	CER			Date:	12/11/13		
Client:					Instrumer	Instrument Source:	BM	Rental
METER TYPE	UNITS	TIME	MAKE/MODEL	SERIAL NUMBER	CAL. BY	STANDARD	POST CAL. READING	SETTINGS
			Myron I Company	6213516		4.00	358	>
DH meter	units	730	Ultra Meter 6P	6243084 CA 6212375 CA	CAC	7.00	2001	1
0				6243003		10.01	10.01	. 8
						10 NTU verification	10.7	7
		000	Hach 2100P or	-	(<0.4		
Turbidity meter	D E Z	NTU + 50	2100Q Turbidimeter	13120C030432 (Q) X	P.	20		
						800		
Sp. Cond. meter	Sm	38	Myron L Company Ultra Meter 6P	6213516	į	7,000 mS @ 25 °C	. 98 J	
2				6243003	1. P.3			2004
Old	muu		MinRAE 2000			open air zero		MIBK response
:			WIII 1971 2000			ppm Iso. Gas		factor = 1.0
Dissolved Oxygen	mad		HACH Model HO30d	171932597009				
		730		100500041867 A 22293299821	CHES	100% Satuartion	7	94.1%
☐ Particulate meter	mg/m ₃					zero air		
Radiation Meter	uR/H					background area		
ADDITIONAL REMARKS:								
PREPARED BY:	CHU			DATE: 12/21/23	3			
	-			l				



GROUNDWATER FIELD FORM

Project Name: Merchus GUM

Location: Project No.: Field Team: Tu3

Well N	O.WETLA	J OV	Diameter (in	ches):		Sample Date	/ Time:		
	epth (fbTOR):		Water Colum	nn (ft):		DTW when s	ampled:		
DTW (stati	c) (fbTOR):		One Well Vo	olume (gal):		Purpose:	Developmen	t Sampl	le 🔲 Purge & Sample
Total Dept	h (fbTOR):		Total Volum	e Purged (gal):		Purge Metho	d:		
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
	o Initial		(=						
1442	1	-	720	2,3	315,4	21.6	-	50	der No id
	2			4					
	3								
	4								
	5								
	6								
	7								
	В								
	9								
	10								
Sample	Information:								
	S1								
	S2								

Well No	MW8	5	Diameter (in	ches): 2	n	Sample Dat	e / Time:	2/21/23	1/2	(
Product De	pth (fbTOR):		Water Colur	nn (ft):	7-99	DTW when	sampled:	4.53	-	
DTW (statio	c) (fbTOR):	1.53	One Well Vo	olume (gal):	430	Purpose:	Development	: Sampl	le Purge	& Sample
Total Depth	(fbTOR): 12	57	Total Volum	e Purged (gal):	1.5	Purge Meth	od:	Plow		
Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appeara Odd	
11.18	o Initial	0	7.01	7.2	499.9	179	-	104	Clear	Ma Co
11:21	1 4.83	. 5	7.01	8.1	524.3	51.6		107	60	11
10:22	2 4.53		6.99	811	554.0	35.2		107	1	14
11:23	3 4.57	1.25	1.97	8.2	577.2	21.1		108	U	15
11:,25	4 W. 53	1.5	(,,0,7	8.3	695.5	17.5		107	11	**
	5									
	6				7					
	7									
	8									
	9				7					
	10									
Sample	nformation:									
11:24	S1 4,55	1.75	6.46	8.3	4943	16.1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	101	ři.	11
11:27	S2 W 43	2.00	1,00	8.3	615.3	12.6	-	106	h	4 11

REMARKS:	
Note: All water level measurements are in feet, di	

Volume Calculation
Diam. Vol. (g/ft)
1" 0.041
2" 0.163
4" 0.653
6" 1.469

 Stabilization Criteria

 Parameter
 Criteria

 pH
 ± 0.1 unit

 SC
 ± 3%

 Turbidity
 ± 10%

 DO
 ± 0.3 mg/L

 ORP
 ± 10 mV

PREPARED BY:

THIS



GROUNDWATER FIELD FORM

Marchans Chy Project Name: 12/21/23 Date: Location: Project No.: Field Team: 74-10 Well No. MU- 75 Diameter (inches): 20 Sample Date / Time: Product Depth (fbTOR): 12/21/23 856 Water Column (ft): 6.95 DTW when sampled: DTW (static) (fbTOR): 6.8 56 One Well Volume (gal): 1-13 Purpose: Development Total Depth (fbTOR): Purge & Sample Sample 51 Total Volume Purged (gal): Purge Method: Flow Acc. Time pН Temp. Level Volume SC Turbidity DO (units) ORP (fbTOR) Appearance & (deg. C) (gallons) (uS) (NTU) (mg/L) (mV) Odor Initial 735 74 82 Tab 79 3.6 00 chur 10 2,5 11 1.0 7.00 740 3 11 11 4 107 11 7) 443 4.0 100 10 417 " 3. 945 31 10 35 4 419. 112 :1 415 4.31 111 10 Sample Information: Ms/msD colleted 450 516,8 30 413.6 50 S2 6 7-1 " 406 Well No. MWSS Diameter (inches): Sample Date / Time: 12/21/23 Product Depth (fbTOR): 1031 Water Column (ft): 9,3 DTW when sampled: DTW (static) (fbTOR): One Well Volume (gal): 1.51 Purpose: Development Total Depth (fbTOR): Sample 2,57 Purge & Sample Total Volume Purged (gal): 3.25 Purge Method: Flow Water Acc. Time рΗ Level Temp. Volume SC Turbidity DO ORP (units) (fbTOR) (deg. C) Appearance & (gallons) (uS) (NTU) (mg/L) (mV) Odor 10 24 Initial 0 7.65 106 74.6 1.20 ,91 7.7 1058 20,2 .85 7.8 10 96 15 .3 CIL 2.25 . 53 7 8 1048 13.6 100 3.25 ,82 1.3 10 26 10.1 106 10 Sample Information: S1 3 64 S2 4.00 REMARKS: MW-55 Blind Dup collecte Stabilization Criteria Volume Calculation Parameter Criteria Diam. Vol. (g/ft) pH ± 0.1 unit 0.041 SC ± 3% 2" 0.163 Turbidity ± 10% Note: All water level measurements are in feet, distance from top of riser. 4" 0.653 DO ± 0.3 mg/L 6" 1.469 ORP ± 10 mV

Groundwater Field Form-Roux xls GWFF - BM

PREPARED BY:

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GROUNDWATER FIELD FORM

Markham CWM Project Name: Date: Location: Project No .: Field Team: Well No. MW75 Diameter (inches): 154 Sample Date / Time: 12/21/23 Product Depth (fbTOR): Water Column (ft): 6.11 DTW when sampled: 13.3 DTW (static) (fbTOR): One Well Volume (gal): Purpose: Development Sample Purge & Sample Total Depth (fbTOR): Total Volume Purged (gal): 1.25 Purge Method: F16w Water Acc. pΗ Temp. SC Turbidity DO ORP Appearance & Time Level Volume (units) (deg. C) (uS) (NTU) (gallons) (mg/L) (fbTOR) (mV) Odor 1:42 Initial 7.13 LCI Change hat 6,6 42 240 GU 9.6 11 45 9 915 1 1,25 3,35 6.44 9.6 03 3 10 Sample Information: S1 13.3 .96 9.7 96 Well No.MW 45 Diameter (inches): Sample Date / Time: Product Depth (fbTOR) Water Column (ft): DTW when sampled: DTW (static) (fbTOR): Purpose: Development One Well Volume (gal): Sample Purge & Sample Total Depth (fbTOR): Total Volume Purged (gal): Purge Method: Water Acc. рΗ Temp. SC Turbidity DO ORP Appearance & Time Level Volume (units) (deg. C) (uS) (NTU) (mg/L) (fbTOR) (gallons) (mV) Odor Initial Sample Information: dissolved inemis Stabilization Criteria MW-75 - Callected GAL. REMARKS: Volume Calculation Parameter Criteria Diam. Vol. (g/ft) pH ± 0.1 unit 0.041 SC ± 3% 2" 0,163 Turbidity ± 10% 0.653 4" DO ± 0.3 mg/L Note: All water level measurements are in feet, distance from top of riser. 6" 1.469 ORP ± 10 mV

ATTACHMENT 2 ANALYTICAL DATA PACKAGE

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Tom Forbes
Roux Environmental Engineering and Geology DPC
2558 Hamburg Turnpike
Suite 300
Lackawanna, New York 14218

Generated 1/2/2024 3:48:18 PM

JOB DESCRIPTION

Roux-Peter Cooper sites
Annual sampling

JOB NUMBER

480-215961-1

Eurofins Buffalo 10 Hazelwood Drive Amherst NY 14228-2298



Eurofins Buffalo

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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Authorization

Generated 1/2/2024 3:48:18 PM

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Tabl	e of	Cor	nte	nts
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Definitions/Glossary

Client: Roux Environmental Engineering and Geology DPC

Project/Site: Roux-Peter Cooper sites

Job ID: 480-215961-1

Qualifiers

Qualifier	Qualifier Description
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
Б	Common and the formed in the blank and commit

B Compound was found in the blank and sample.

Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not
	applicable.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"

MQL Method Quantitation Limit

MDA

MDC

MDL

MPN

ML

NC

ND Not Detected at the reporting limit (or MDL or EDL if shown)

Minimum Detectable Activity (Radiochemistry)

Minimum Detectable Concentration (Radiochemistry)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

Not Calculated

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

Method Detection Limit

Minimum Level (Dioxin) Most Probable Number

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins Buffalo

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Case Narrative

Client: Roux Environmental Engineering and Geology DPC

Project: Roux-Peter Cooper sites

Job ID: 480-215961-1 Eurofins Buffalo

Job Narrative 480-215961-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 12/21/2023 2:44 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.6°C

Metals

Method 6010C: The continuing calibration blank (CCB) for analytical batch 480-696598 contained total Iron above the reporting limit (RL). All reported samples associated with this CCB contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Job ID: 480-215961-1

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1/2/2024

Client: Roux Environmental Engineering and Geology DPC

Project/Site: Roux-Peter Cooper sites

Client Sample ID: Blind Duplicate Lab Sample ID: 480-215961-1

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D N	lethod	Prep Type
Chromium	0.0038 J	0.0040	0.0010	mg/L	1	_ 6	010C	Total/NA
Iron	0.16	0.050	0.019	mg/L	1	6	010C	Total/NA
Manganese	2.4	0.0030	0.00040	mg/L	1	6	010C	Total/NA
Chromium (hexavalent)	0.013	0.010	0.0050	mg/L	1	7	196A	Total/NA

Client Sample ID: MW-5S

Analyte	Result Qualifi	er RL	MDL	Unit	Dil Fac	D Method	Prep Type
Chromium	0.0040	0.0040	0.0010	mg/L	1	6010C	Total/NA
Iron	0.12	0.050	0.019	mg/L	1	6010C	Total/NA
Manganese	2.3	0.0030	0.00040	mg/L	1	6010C	Total/NA
Alkalinity, Total	492	240	96.0	mg/L	24	310.2	Total/NA
Ammonia (as N)	8.3	0.10	0.045	mg/L	5	350.1	Total/NA
Nitrate as N	7.2	0.050	0.020	mg/L	1	353.2	Total/NA
Chromium (hexavalent)	0.012	0.010	0.0050	mg/L	1	7196A	Total/NA

Client Sample ID: MW-7S

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.0030	J	0.0040	0.0010	mg/L	1	_	6010C	Total/NA
Iron	11.1	^2	0.050	0.019	mg/L	1		6010C	Total/NA
Manganese	0.19		0.0030	0.00040	mg/L	1		6010C	Total/NA
Chromium, Dissolved	0.0028	J	0.0040	0.0010	mg/L	1		6010C	Dissolved
Iron, Dissolved	6.5		0.050	0.019	mg/L	1		6010C	Dissolved
Manganese, Dissolved	0.15	В	0.0030	0.00040	mg/L	1		6010C	Dissolved
Alkalinity, Total	420		50.0	20.0	mg/L	5		310.2	Total/NA
Nitrate as N	0.037	J	0.050	0.020	mg/L	1		353.2	Total/NA
Chromium (hexavalent)	0.010		0.010	0.0050	mg/L	1		7196A	Total/NA

Client Sample ID: MW-8S

Analyte	Result (Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.0017	J	0.0040	0.0010	mg/L	1	_	6010C	Total/NA
Iron	0.035	J	0.050	0.019	mg/L	1		6010C	Total/NA
Manganese	0.49		0.0030	0.00040	mg/L	1		6010C	Total/NA
Alkalinity, Total	330		50.0	20.0	mg/L	5		310.2	Total/NA
Nitrate as N	0.81		0.050	0.020	mg/L	1		353.2	Total/NA
Chromium (hexavalent)	0.012		0.010	0.0050	mg/L	1		7196A	Total/NA

Client Sample ID: MW-9S

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	0.037	J	0.050	0.019	mg/L	1	_	6010C	Total/NA
Manganese	0.0029	J	0.0030	0.00040	mg/L	1		6010C	Total/NA
Alkalinity, Total	126		50.0	20.0	mg/L	5		310.2	Total/NA
Nitrate as N	5.5		0.050	0.020	mg/L	1		353.2	Total/NA
Chromium (hexavalent)	0.0091	J	0.010	0.0050	mg/L	1		7196A	Total/NA

Client Sample ID: WETLAND F

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
Chromium	0.0022 J	0.0040	0.0010 mg/L		6010C	Total/NA
Iron	0.57 ^2	0.050	0.019 mg/L	1	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

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Job ID: 480-215961-1

Lab Sample ID: 480-215961-2

Lab Sample ID: 480-215961-3

Lab Sample ID: 480-215961-4

Lab Sample ID: 480-215961-5

Lab Sample ID: 480-215961-6

Detection Summary

Client: Roux Environmental Engineering and Geology DPC

Project/Site: Roux-Peter Cooper sites

Client Sample ID: WETLAND F (Continued)

Lab Sample ID: 480-215961-6

Job ID: 480-215961-1

Analyte	Result C	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	0.13		0.0030	0.00040	mg/L	1	_	6010C	Total/NA
Alkalinity, Total	91.2		10.0	4.0	mg/L	1		310.2	Total/NA
Nitrate as N	0.67		0.050	0.020	mg/L	1		353.2	Total/NA
Chromium (hexavalent)	0.020 F	- 1	0.010	0.0050	mg/L	1		7196A	Total/NA

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Client: Roux Environmental Engineering and Geology DPC Job ID: 480-215961-1

Project/Site: Roux-Peter Cooper sites

Client Sample ID: Blind Duplicate

Lab Sample ID: 480-215961-1 Date Collected: 12/21/23 12:00

Matrix: Water

Date Received: 12/21/23 14:44

Method: SW846 6010C - Metals	(ICP)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		12/27/23 08:34	12/27/23 23:45	1
Chromium	0.0038	J	0.0040	0.0010	mg/L		12/27/23 08:34	12/27/23 23:45	1
Iron	0.16		0.050	0.019	mg/L		12/27/23 08:34	12/29/23 14:47	1
_Manganese	2.4		0.0030	0.00040	mg/L		12/27/23 08:34	12/27/23 23:45	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent) (SW846 7196A)	0.013		0.010	0.0050	mg/L			12/21/23 16:02	1

Client: Roux Environmental Engineering and Geology DPC Job ID: 480-215961-1

Project/Site: Roux-Peter Cooper sites

Lab Sample ID: 480-215961-2 **Client Sample ID: MW-5S**

Date Collected: 12/21/23 10:31 **Matrix: Water**

Date Received: 12/21/23 14:44

Analyte	Result (Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND ND		0.015	0.0056	mg/L		12/27/23 08:34	12/27/23 23:49	1
Chromium	0.0040		0.0040	0.0010	mg/L		12/27/23 08:34	12/27/23 23:49	1
Iron	0.12		0.050	0.019	mg/L		12/27/23 08:34	12/29/23 14:50	1
Manganese	2.3		0.0030	0.00040	mg/L		12/27/23 08:34	12/27/23 23:49	1

L	- manganess	2.0		0.0000	0.000.0	9/ =		,_,,	12/21/20 20110	•
	General Chemistry									
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Alkalinity, Total (EPA 310.2)	492		240	96.0	mg/L			12/23/23 13:26	24
	Ammonia (as N) (EPA 350.1)	8.3		0.10	0.045	mg/L			12/28/23 15:47	5
	Nitrate as N (EPA 353.2)	7.2		0.050	0.020	mg/L			12/21/23 16:42	1
	Chromium (hexavalent) (SW846 7196A)	0.012		0.010	0.0050	mg/L			12/21/23 16:02	1
	Sulfide (SM 4500 S2 F)	ND		1.0	0.67	mg/L			12/23/23 14:11	1

Client: Roux Environmental Engineering and Geology DPC

Project/Site: Roux-Peter Cooper sites

Client Sample ID: MW-7S Lab Sample ID: 480-215961-3 Date Collected: 12/21/23 11:54

Matrix: Water

Job ID: 480-215961-1

Date Received: 12/21/23 14:44

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		12/27/23 08:34	12/28/23 00:02	1
Chromium	0.0030	J	0.0040	0.0010	mg/L		12/27/23 08:34	12/28/23 00:02	1
Iron	11.1	^2	0.050	0.019	mg/L		12/27/23 08:34	12/28/23 00:02	1
Manganese	0.19		0.0030	0.00040	mg/L		12/27/23 08:34	12/28/23 00:02	1
Method: SW846 6010C - Metals	(ICP) - Dis	ssolved							
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	ND		0.015	0.0056	mg/L		12/27/23 08:35	12/27/23 22:40	1
Chromium, Dissolved	0.0028	J	0.0040	0.0010	mg/L		12/27/23 08:35	12/27/23 22:40	1
Iron, Dissolved	6.5		0.050	0.019	mg/L		12/27/23 08:35	12/27/23 22:40	1
Manganese, Dissolved	0.15	В	0.0030	0.00040	mg/L		12/27/23 08:35	12/27/23 22:40	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total (EPA 310.2)	420		50.0	20.0	mg/L			12/23/23 12:18	5
Ammonia (as N) (EPA 350.1)	ND		0.020	0.0090	mg/L			12/28/23 15:14	1
Nitrate as N (EPA 353.2)	0.037	J	0.050	0.020	mg/L			12/21/23 16:43	1
Chromium (hexavalent) (SW846 7196A)	0.010		0.010	0.0050	mg/L			12/21/23 16:02	1
Sulfide (SM 4500 S2 F)	ND		1.0	0.67	mg/L			12/23/23 14:11	1
General Chemistry - Dissolved									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	ND		0.010	0.0050				12/22/23 07:28	

Client: Roux Environmental Engineering and Geology DPC

Job ID: 480-215961-1

Project/Site: Roux-Peter Cooper sites

Client Sample ID: MW-8S Lab Sample ID: 480-215961-4

Date Collected: 12/21/23 11:26

Matrix: Water

Date Received: 12/21/23 11:26

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		12/27/23 08:34	12/28/23 00:06	1
Chromium	0.0017	J	0.0040	0.0010	mg/L		12/27/23 08:34	12/28/23 00:06	1
Iron	0.035	J	0.050	0.019	mg/L		12/27/23 08:34	12/29/23 14:54	1
Manganese	0.49		0.0030	0.00040	mg/L		12/27/23 08:34	12/28/23 00:06	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total (EPA 310.2)	330		50.0	20.0	mg/L			12/23/23 12:19	5
	ND		0.020	0.0090	mg/L			12/28/23 15:15	1
Ammonia (as N) (EPA 350.1)	שוו		0.020						
, , , ,	0.81		0.050	0.020	mg/L			12/21/23 16:45	1
Ammonia (as N) (EPA 350.1) Nitrate as N (EPA 353.2) Chromium (hexavalent) (SW846 7196A)								12/21/23 16:45 12/21/23 16:02	1

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Client: Roux Environmental Engineering and Geology DPC

Job ID: 480-215961-1

Project/Site: Roux-Peter Cooper sites

Client Sample ID: MW-9S Lab Sample ID: 480-215961-5

Date Collected: 12/21/23 09:50 Matrix: Water

Date Received: 12/21/23 14:44

Method: SW846 6010C - Meta	als (ICP)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		12/27/23 08:34	12/28/23 00:09	1
Chromium	ND		0.0040	0.0010	mg/L		12/27/23 08:34	12/28/23 00:09	1
Iron	0.037	J	0.050	0.019	mg/L		12/27/23 08:34	12/29/23 14:57	1
_Manganese	0.0029	J	0.0030	0.00040	mg/L		12/27/23 08:34	12/28/23 00:09	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

General Chemistry Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total (EPA 310.2)	126		50.0	20.0	mg/L		<u> </u>	12/23/23 12:19	5
Ammonia (as N) (EPA 350.1)	ND	F1	0.020	0.0090	mg/L			12/28/23 15:20	1
Nitrate as N (EPA 353.2)	5.5		0.050	0.020	mg/L			12/21/23 16:46	1
Chromium (hexavalent) (SW846 7196A)	0.0091	J	0.010	0.0050	mg/L			12/21/23 16:02	1
Sulfide (SM 4500 S2 F)	ND		1.0	0.67	mg/L			12/23/23 14:11	1

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Client: Roux Environmental Engineering and Geology DPC Job ID: 480-215961-1

Project/Site: Roux-Peter Cooper sites

Client Sample ID: WETLAND F

Lab Sample ID: 480-215961-6 Date Collected: 12/21/23 10:42

Matrix: Water

Date Received: 12/21/23 14:44

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		12/27/23 08:34	12/28/23 00:20	1
Chromium	0.0022	J	0.0040	0.0010	mg/L		12/27/23 08:34	12/28/23 00:20	1
Iron	0.57	^2	0.050	0.019	mg/L		12/27/23 08:34	12/28/23 00:20	1
Manganese	0.13		0.0030	0.00040	mg/L		12/27/23 08:34	12/28/23 00:20	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total (EPA 310.2)	91.2		10.0	4.0	mg/L			12/23/23 12:08	1
Ammonia (as N) (EPA 350.1)	ND		0.020	0.0090	mg/L			12/28/23 15:24	1
Nitrate as N (EPA 353.2)	0.67		0.050	0.020	mg/L			12/21/23 16:47	1
Chromium (hexavalent) (SW846 7196A)	0.020	F1	0.010	0.0050	mg/L			12/21/23 16:02	1
Sulfide (SM 4500 S2 F)	ND		1.0		ma/L			12/23/23 14:11	

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Method: 6010C - Metals (ICP)

Lab Sample	ID: MB	480-696356	/1-A
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Matrix: Water

Analysis Batch: 696598

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 696356

	MB MB						
Analyte	Result Qualif	ier RL	MDL U	Init	D Prepared	Analyzed	Dil Fac
Arsenic	ND ND	0.015	0.0056 m	ng/L	12/27/23 08:34	12/27/23 22:43	1
Chromium	ND	0.0040	0.0010 m	ng/L	12/27/23 08:34	12/27/23 22:43	1
Iron	ND	0.050	0.019 m	ng/L	12/27/23 08:34	12/27/23 22:43	1
Manganese	ND	0.0030	0.00040 m	ng/L	12/27/23 08:34	12/27/23 22:43	1

Lab Sample ID: LCS 480-696356/2-A **Client Sample ID: Lab Control Sample**

Matrix: Water

Analysis Batch: 696598

Prep Type: Total/NA

Prep Batch: 696356

7 maryolo Batom 600000	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Arsenic	0.200	0.203		mg/L		102	80 - 120
Chromium	0.200	0.206		mg/L		103	80 - 120
Iron	10.0	9.78		mg/L		98	80 - 120
Manganese	0.200	0.205		mg/L		103	80 - 120

Lab Sample ID: 480-215961-5 MS **Client Sample ID: MW-9S**

Matrix: Water

Analysis Batch: 696598

Prep Type: Total/NA Prep Batch: 696356

Analysis Baten. 030030	Sample	Sample	Spike	MS	MS				%Rec	٠
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Arsenic	ND		0.200	0.206		mg/L		103	75 - 125	_
Chromium	ND		0.200	0.203		mg/L		102	75 - 125	
Manganese	0.0029	J	0.200	0.204		mg/L		100	75 - 125	

Lab Sample ID: 480-215961-5 MS Client Sample ID: MW-9S

Matrix: Water

Analysis Batch: 696848

Prep Type: Total/NA

Prep Batch: 696356 %Rec

Sample Sample Spike MS MS Result Qualifier Added Limits Analyte Result Qualifier Unit D %Rec Iron 0.037 J 10.0 9.78 mg/L 97 75 - 125

Lab Sample ID: 480-215961-5 MSD Client Sample ID: MW-9S **Matrix: Water**

Analysis Batch: 696598

Prep Type: Total/NA **Prep Batch: 696356**

н															
		Sample	Sample	Spike	MSD	MSD				%Rec		RPD			
	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit			
	Arsenic	ND		0.200	0.205		mg/L		103	75 - 125	0	20			
	Chromium	ND		0.200	0.203		mg/L		101	75 - 125	0	20			
	Manganese	0.0029	J	0.200	0.204		mg/L		100	75 - 125	0	20			

Lab Sample ID: 480-215961-5 MSD Client Sample ID: MW-9S **Matrix: Water Prep Type: Total/NA Analysis Batch: 696848 Prep Batch: 696356**

Sample Sample Spike MSD MSD %Rec **RPD** Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit 0.037 J 10.0 Iron 9.85 98 75 - 125 mg/L

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Lab Sample ID: MB 480-696360/1-A

Matrix: Water

Arsenic, Dissolved

Iron, Dissolved

Chromium, Dissolved

Manganese, Dissolved

Analyte

Analysis Batch: 696597

Client Sample ID: Method Blank **Prep Type: Total Recoverable Prep Batch: 696360**

MB MB Result Qualifier RL **MDL** Unit D Analyzed Dil Fac Prepared 0.015 ND 0.0056 mg/L 12/27/23 08:35 12/27/23 20:22 ND 0.0040 0.0010 mg/L 12/27/23 08:35 12/27/23 20:22 ND 0.050 0.019 mg/L 12/27/23 08:35 12/27/23 20:22 0.00120 J 0.0030 0.00040 mg/L 12/27/23 08:35 12/27/23 20:22

Lab Sample ID: LCS 480-696360/2-A

Matrix: Water

Analysis Batch: 696597

Client Sample ID: Lab Control Sample **Prep Type: Total Recoverable**

Prep Batch: 696360

%Rec Spike LCS LCS Analyte Added Result Qualifier Unit %Rec Limits Arsenic, Dissolved 0.200 0.201 100 80 - 120 mg/L 0.200 Chromium, Dissolved 0.202 mg/L 101 80 - 120 9.68 Iron, Dissolved 10.0 mg/L 97 80 - 120 Manganese, Dissolved 0.200 0.202 mg/L 101 80 - 120

Lab Sample ID: LCSD 480-696360/3-A

Matrix: Water

Analysis Batch: 696597

Client Sample ID: Lab Control Sample Dup **Prep Type: Total Recoverable**

Prep Batch: 696360 %Rec **RPD**

Spike LCSD LCSD Added Result Qualifier Unit D %Rec Limits RPD Limit Analyte Arsenic, Dissolved 0.200 0.201 mg/L 100 80 - 120 0 20 mg/L Chromium. Dissolved 0.200 0.200 100 80 - 120 20 Iron, Dissolved 10.0 9.70 mg/L 97 80 - 120 0 20 Manganese, Dissolved 0.200 0.202 101 80 - 120 0 20 mg/L

Method: 310.2 - Alkalinity

Lab Sample ID: MB 480-696401/101

Matrix: Water

Analysis Batch: 696401

Client Sample ID: Method Blank

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Type: Total/NA

MB MB **Analyte** Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 10.0 12/23/23 12:07 Alkalinity, Total ND 4.0 mg/L

Lab Sample ID: MB 480-696401/117

Matrix: Water

Analysis Batch: 696401

MR MR

RL **MDL** Unit Analyte Result Qualifier Prepared Analyzed Dil Fac 10.0 12/23/23 12:20 Alkalinity, Total ND 4.0 mg/L

Lab Sample ID: MB 480-696401/12

Matrix: Water

Analysis Batch: 696401

Client Sample ID: Method Blank Prep Type: Total/NA

MB MB

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Alkalinity, Total ND 10.0 4.0 mg/L 12/23/23 10:36

Client: Roux Environmental Engineering and Geology DPC Job ID: 480-215961-1

Project/Site: Roux-Peter Cooper sites

Method: 310.2 - Alkalinity (Continued)

Lab Sample ID: MB 480-696401/33 Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 696401

MB MB Analyzed Result Qualifier RL **MDL** Unit Dil Fac Analyte D Prepared 10.0 12/23/23 11:17 Alkalinity, Total ND 4.0 mg/L

Lab Sample ID: MB 480-696401/41 Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 696401

MB MB Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Analyte 10.0 12/23/23 11:22 Alkalinity, Total ND 4.0 mg/L

Lab Sample ID: MB 480-696401/94 Client Sample ID: Method Blank **Matrix: Water Prep Type: Total/NA**

Analysis Batch: 696401

MB MB Result Qualifier RL **MDL** Unit Analyte D Prepared Analyzed Dil Fac Alkalinity, Total $\overline{\mathsf{ND}}$ 10.0 4.0 mg/L 12/23/23 12:02

Lab Sample ID: LCS 480-696401/100 **Client Sample ID: Lab Control Sample Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 696401

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Alkalinity, Total 51.64 50.0 mg/L 103 90 - 110

Lab Sample ID: LCS 480-696401/11 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 696401

LCS LCS Spike %Rec Added Limits Analyte Result Qualifier Unit %Rec 50.0 48.84 98 90 - 110 Alkalinity, Total mg/L

Lab Sample ID: LCS 480-696401/116

Matrix: Water

Analysis Batch: 696401

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit %Rec Limits D 50.0 Alkalinity, Total 49.47 mg/L 99 90 - 110

Lab Sample ID: LCS 480-696401/40

Matrix: Water

Analysis Batch: 696401

Spike LCS LCS %Rec Added Result Qualifier D Limits Analyte Unit %Rec 50.0 Alkalinity, Total 50.87 mg/L 102 90 - 110

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Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Client Sample ID: MW-5S

Client Sample ID: MW-5S

Prep Type: Total/NA

Prep Type: Total/NA

Client Sample ID: Method Blank

Client Sample ID: Method Blank

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample

Client: Roux Environmental Engineering and Geology DPC

Project/Site: Roux-Peter Cooper sites

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-696678/51 **Matrix: Water**

Analysis Batch: 696678

MB MB

Analyzed Result Qualifier RL **MDL** Unit Dil Fac Analyte D Prepared 0.020 12/28/23 14:52 Ammonia (as N) ND 0.0090 mg/L

Lab Sample ID: MB 480-696678/75

Matrix: Water

Analysis Batch: 696678

MB MB

Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Analyte 0.020 12/28/23 15:18 Ammonia (as N) ND 0.0090 mg/L

Lab Sample ID: MB 480-696678/99

Matrix: Water

Analysis Batch: 696678

MB MB

MDL Unit Analyte Result Qualifier RL Prepared Analyzed Dil Fac Ammonia (as N) $\overline{\mathsf{ND}}$ 0.020 0.0090 mg/L 12/28/23 15:44

Lab Sample ID: LCS 480-696678/100

Matrix: Water

Analysis Batch: 696678

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits 0.984 Ammonia (as N) 1.00 mg/L 98 90 - 110

Lab Sample ID: LCS 480-696678/52

Matrix: Water

Analysis Batch: 696678

LCS LCS Spike %Rec Added Limits Analyte Result Qualifier Unit %Rec 1.00 0.991 99 90 - 110 Ammonia (as N) mg/L

Lab Sample ID: LCS 480-696678/76

Matrix: Water

Analysis Batch: 696678

Spike LCS LCS %Rec Added %Rec Analyte Result Qualifier Unit Limits D 1.00 Ammonia (as N) 0.994 mg/L 99 90 - 110

Lab Sample ID: 480-215961-2 MS

Matrix: Water

Analysis Batch: 696678

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier D Limits Analyte Unit %Rec Ammonia (as N) 8.3 1.00 8.85 4 mg/L 60 90 - 110

Lab Sample ID: 480-215961-2 MSD

Matrix: Water

Analysis Batch: 696678

Spike MSD MSD %Rec **RPD** Sample Sample Added Limits Analyte Result Qualifier Result Qualifier Unit D %Rec RPD Limit Ammonia (as N) 90 - 110 8.3 1.00 8.95 4 mg/L 70

Eurofins Buffalo

Lab Sample ID: 480-215961-5 MS **Client Sample ID: MW-9S Matrix: Water Prep Type: Total/NA**

Analysis Batch: 696678

-	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ammonia (as N)	ND	F1	0.200	0.167	F1	mg/L		84	90 - 110	

Lab Sample ID: 480-215961-5 MSD Client Sample ID: MW-9S **Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 696678

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Ammonia (as N)	ND	F1	0.200	0.162	F1	mg/L		81	90 - 110	3	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 480-696253/3 **Client Sample ID: Method Blank Matrix: Water** Prep Type: Total/NA

Analysis Batch: 696253

	MR MR						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chromium (hexavalent)	ND	0.010	0.0050 mg/L			12/21/23 16:02	1

Lab Sample ID: LCS 480-696253/4 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 696253

		Spike	LCS	LCS				%Rec	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chromium (hexavalent)	 	0.0500	0.0545		mg/L		109	85 - 115	

Lab Sample ID: 480-215961-5 MS Client Sample ID: MW-9S **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 696253

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chromium (hexavalent)	0.0091	J	0.0500	0.0659		ma/L		113	85 - 115	

Lab Sample ID: 480-215961-5 MSD **Client Sample ID: MW-9S** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 696253

-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chromium (hexavalent)	0.0091	J	0.0500	0.0621		ma/L		106	85 - 115	6	20

Lab Sample ID: 480-215961-6 MS **Client Sample ID: WETLAND F Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 696253

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chromium (hexavalent)	0.020	F1	0.0500	0.0798	F1	mg/L		119	85 - 115	

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1/2/2024

Client: Roux Environmental Engineering and Geology DPC Job ID: 480-215961-1

Project/Site: Roux-Peter Cooper sites

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: 480-215961-6 DU Client Sample ID: WETLAND F Prep Type: Total/NA

Matrix: Water

Analysis Batch: 696253

DU DU Sample Sample **RPD** Result Qualifier Result Qualifier Unit RPD Limit Analyte D Chromium (hexavalent) 0.020 F1 0.0218 mg/L 6 20

Lab Sample ID: MB 480-696290/3 Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 696290

MB MB

Result Qualifier RL **MDL** Unit Prepared Dil Fac Analyte Analyzed 0.010 12/22/23 07:28 Chromium, hexavalent (dissolved) ND 0.0050 mg/L

Lab Sample ID: LCS 480-696290/4 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 696290

Spike LCS LCS %Rec Added Result Qualifier Limits Analyte Unit D %Rec 0.0500 0.0520 104 85 - 115 Chromium, hexavalent mg/L (dissolved)

Lab Sample ID: 480-215961-3 MS Client Sample ID: MW-7S **Prep Type: Dissolved**

Matrix: Water

Analysis Batch: 696290

Spike MS MS %Rec Sample Sample Added Analyte Result Qualifier Result Qualifier Unit D %Rec Limits 0.0500 ND 0.0432 mg/L 86 85 - 115 Chromium, hexavalent (dissolved)

Lab Sample ID: 480-215961-3 DU

Matrix: Water

Analysis Batch: 696290

Sample Sample DU DU **RPD RPD** Analyte Result Qualifier Result Qualifier Unit D Limit ND NC Chromium, hexavalent ND mg/L (dissolved)

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 480-696402/27 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 696402

MR MR Analyte RL **MDL** Unit Result Qualifier Prepared Analyzed Dil Fac Sulfide 1.0 0.67 mg/L 12/23/23 14:11 ND

Lab Sample ID: MB 480-696402/3 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 696402

MB MB Analyte Result Qualifier RL **MDL** Unit D Prepared Analyzed Dil Fac Sulfide ND 1.0 0.67 mg/L 12/23/23 14:11

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1/2/2024

Client Sample ID: MW-7S

Prep Type: Dissolved

QC Sample Results

Client: Roux Environmental Engineering and Geology DPC

Project/Site: Roux-Peter Cooper sites

Job ID: 480-215961-1

Prep Type: Total/NA

Method: SM 4500 S2 F - Sulfide, Total (Continued)

Lab Sample ID: LCS 480-696402/28 **Client Sample ID: Lab Control Sample**

Matrix: Water

Analysis Batch: 696402

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit D %Rec Limits Sulfide 8.60 8.80 mg/L 102 90 - 110

Lab Sample ID: LCS 480-696402/4 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 696402

Spike LCS LCS %Rec Added Result Qualifier Unit D %Rec Limits

Analyte Sulfide 8.60 90 - 110 8.80 mg/L 102

Client Sample ID: MW-8S Lab Sample ID: 480-215961-4 DU Prep Type: Total/NA

Matrix: Water

Analysis Batch: 696402

Sample Sample DU DU RPD Analyte Result Qualifier Result Qualifier RPD Limit Unit Sulfide ND ND mg/L NC 20

Eurofins Buffalo

QC Association Summary

Client: Roux Environmental Engineering and Geology DPC

Project/Site: Roux-Peter Cooper sites

Metals

Prep Batch: 696356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-215961-1	Blind Duplicate	Total/NA	Water	3005A	
480-215961-2	MW-5S	Total/NA	Water	3005A	
480-215961-3	MW-7S	Total/NA	Water	3005A	
480-215961-4	MW-8S	Total/NA	Water	3005A	
480-215961-5	MW-9S	Total/NA	Water	3005A	
480-215961-6	WETLAND F	Total/NA	Water	3005A	
MB 480-696356/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-696356/2-A	Lab Control Sample	Total/NA	Water	3005A	
480-215961-5 MS	MW-9S	Total/NA	Water	3005A	
480-215961-5 MSD	MW-9S	Total/NA	Water	3005A	

Prep Batch: 696360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-215961-3	MW-7S	Dissolved	Water	3005A	
MB 480-696360/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 480-696360/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCSD 480-696360/3-A	Lab Control Sample Dup	Total Recoverable	Water	3005A	

Analysis Batch: 696597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-215961-3	MW-7S	Dissolved	Water	6010C	696360
MB 480-696360/1-A	Method Blank	Total Recoverable	Water	6010C	696360
LCS 480-696360/2-A	Lab Control Sample	Total Recoverable	Water	6010C	696360
LCSD 480-696360/3-A	Lab Control Sample Dup	Total Recoverable	Water	6010C	696360

Analysis Batch: 696598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-215961-1	Blind Duplicate	Total/NA	Water	6010C	696356
480-215961-2	MW-5S	Total/NA	Water	6010C	696356
480-215961-3	MW-7S	Total/NA	Water	6010C	696356
480-215961-4	MW-8S	Total/NA	Water	6010C	696356
480-215961-5	MW-9S	Total/NA	Water	6010C	696356
480-215961-6	WETLAND F	Total/NA	Water	6010C	696356
MB 480-696356/1-A	Method Blank	Total/NA	Water	6010C	696356
LCS 480-696356/2-A	Lab Control Sample	Total/NA	Water	6010C	696356
480-215961-5 MS	MW-9S	Total/NA	Water	6010C	696356
480-215961-5 MSD	MW-9S	Total/NA	Water	6010C	696356

Analysis Batch: 696848

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-215961-1	Blind Duplicate	Total/NA	Water	6010C	696356
480-215961-2	MW-5S	Total/NA	Water	6010C	696356
480-215961-4	MW-8S	Total/NA	Water	6010C	696356
480-215961-5	MW-9S	Total/NA	Water	6010C	696356
480-215961-5 MS	MW-9S	Total/NA	Water	6010C	696356
480-215961-5 MSD	MW-9S	Total/NA	Water	6010C	696356

Job ID: 480-215961-1

QC Association Summary

Client: Roux Environmental Engineering and Geology DPC

Project/Site: Roux-Peter Cooper sites

Job ID: 480-215961-1

General Chemistry

Analysis Batch: 696247

Lab Sample ID 480-215961-2	Client Sample ID MW-5S	Prep Type Total/NA	Matrix Water	Method 353.2	Prep Batch
480-215961-3	MW-7S	Total/NA	Water	353.2	
480-215961-4	MW-8S	Total/NA	Water	353.2	
480-215961-5	MW-9S	Total/NA	Water	353.2	
480-215961-6	WETLAND F	Total/NA	Water	353.2	

Analysis Batch: 696253

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-215961-1	Blind Duplicate	Total/NA	Water	7196A	
480-215961-2	MW-5S	Total/NA	Water	7196A	
480-215961-3	MW-7S	Total/NA	Water	7196A	
480-215961-4	MW-8S	Total/NA	Water	7196A	
480-215961-5	MW-9S	Total/NA	Water	7196A	
480-215961-6	WETLAND F	Total/NA	Water	7196A	
MB 480-696253/3	Method Blank	Total/NA	Water	7196A	
LCS 480-696253/4	Lab Control Sample	Total/NA	Water	7196A	
480-215961-5 MS	MW-9S	Total/NA	Water	7196A	
480-215961-5 MSD	MW-9S	Total/NA	Water	7196A	
480-215961-6 MS	WETLAND F	Total/NA	Water	7196A	
480-215961-6 DU	WETLAND F	Total/NA	Water	7196A	

Filtration Batch: 696288

Lab Sample ID 480-215961-3	Client Sample ID MW-7S	Prep Type Dissolved	Matrix Water	Method Filtration	Prep Batch
480-215961-3 MS	MW-7S	Dissolved	Water	Filtration	
480-215961-3 DU	MW-7S	Dissolved	Water	Filtration	

Analysis Batch: 696290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-215961-3	MW-7S	Dissolved	Water	7196A	696288
MB 480-696290/3	Method Blank	Total/NA	Water	7196A	
LCS 480-696290/4	Lab Control Sample	Total/NA	Water	7196A	
480-215961-3 MS	MW-7S	Dissolved	Water	7196A	696288
480-215961-3 DU	MW-7S	Dissolved	Water	7196A	696288

Analysis Batch: 696401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-215961-2	MW-5S	Total/NA	Water	310.2	
480-215961-3	MW-7S	Total/NA	Water	310.2	
480-215961-4	MW-8S	Total/NA	Water	310.2	
480-215961-5	MW-9S	Total/NA	Water	310.2	
480-215961-6	WETLAND F	Total/NA	Water	310.2	
MB 480-696401/101	Method Blank	Total/NA	Water	310.2	
MB 480-696401/117	Method Blank	Total/NA	Water	310.2	
MB 480-696401/12	Method Blank	Total/NA	Water	310.2	
MB 480-696401/33	Method Blank	Total/NA	Water	310.2	
MB 480-696401/41	Method Blank	Total/NA	Water	310.2	
MB 480-696401/94	Method Blank	Total/NA	Water	310.2	
LCS 480-696401/100	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-696401/11	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-696401/116	Lab Control Sample	Total/NA	Water	310.2	

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QC Association Summary

Client: Roux Environmental Engineering and Geology DPC

Project/Site: Roux-Peter Cooper sites

Job ID: 480-215961-1

General Chemistry (Continued)

Analysis Batch: 696401 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-696401/40	Lab Control Sample	Total/NA	Water	310.2	

Analysis Batch: 696402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-215961-2	MW-5S	Total/NA	Water	SM 4500 S2 F	
480-215961-3	MW-7S	Total/NA	Water	SM 4500 S2 F	
480-215961-4	MW-8S	Total/NA	Water	SM 4500 S2 F	
480-215961-5	MW-9S	Total/NA	Water	SM 4500 S2 F	
480-215961-6	WETLAND F	Total/NA	Water	SM 4500 S2 F	
MB 480-696402/27	Method Blank	Total/NA	Water	SM 4500 S2 F	
MB 480-696402/3	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 480-696402/28	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
LCS 480-696402/4	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
480-215961-4 DU	MW-8S	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 696678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-215961-2	MW-5S	Total/NA	Water	350.1	
480-215961-3	MW-7S	Total/NA	Water	350.1	
480-215961-4	MW-8S	Total/NA	Water	350.1	
480-215961-5	MW-9S	Total/NA	Water	350.1	
480-215961-6	WETLAND F	Total/NA	Water	350.1	
MB 480-696678/51	Method Blank	Total/NA	Water	350.1	
MB 480-696678/75	Method Blank	Total/NA	Water	350.1	
MB 480-696678/99	Method Blank	Total/NA	Water	350.1	
LCS 480-696678/100	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-696678/52	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-696678/76	Lab Control Sample	Total/NA	Water	350.1	
480-215961-2 MS	MW-5S	Total/NA	Water	350.1	
480-215961-2 MSD	MW-5S	Total/NA	Water	350.1	
480-215961-5 MS	MW-9S	Total/NA	Water	350.1	
480-215961-5 MSD	MW-9S	Total/NA	Water	350.1	

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Lab Chronicle

Client: Roux Environmental Engineering and Geology DPC

Project/Site: Roux-Peter Cooper sites

Client Sample ID: Blind Duplicate

Date Collected: 12/21/23 12:00 Date Received: 12/21/23 14:44

Lab Sample ID: 480-215961-1

Job ID: 480-215961-1

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	3005A			696356	EMO	EET BUF	12/27/23 08:34
Total/NA	Analysis	6010C		1	696598	BMB	EET BUF	12/27/23 23:45
Total/NA	Prep	3005A			696356	EMO	EET BUF	12/27/23 08:34
Total/NA	Analysis	6010C		1	696848	BMB	EET BUF	12/29/23 14:47
Total/NA	Analysis	7196A		1	696253	GW	EET BUF	12/21/23 16:02

Lab Sample ID: 480-215961-2 **Client Sample ID: MW-5S**

Date Collected: 12/21/23 10:31 **Matrix: Water** Date Received: 12/21/23 14:44

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	3005A			696356	EMO	EET BUF	12/27/23 08:34
Total/NA	Analysis	6010C		1	696598	BMB	EET BUF	12/27/23 23:49
Total/NA	Prep	3005A			696356	EMO	EET BUF	12/27/23 08:34
Total/NA	Analysis	6010C		1	696848	BMB	EET BUF	12/29/23 14:50
Total/NA	Analysis	310.2		24	696401	CG	EET BUF	12/23/23 13:26
Total/NA	Analysis	350.1		5	696678	IMZ	EET BUF	12/28/23 15:47
Total/NA	Analysis	353.2		1	696247	IMZ	EET BUF	12/21/23 16:42
Total/NA	Analysis	7196A		1	696253	GW	EET BUF	12/21/23 16:02
otal/NA	Analysis	SM 4500 S2 F		1	696402	AM	EET BUF	12/23/23 14:11

Client Sample ID: MW-7S Lab Sample ID: 480-215961-3 Date Collected: 12/21/23 11:54 **Matrix: Water**

Date Received: 12/21/23 14:44

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Dissolved	Prep	3005A			696360	EMO	EET BUF	12/27/23 08:35
Dissolved	Analysis	6010C		1	696597	BMB	EET BUF	12/27/23 22:40
Total/NA	Prep	3005A			696356	EMO	EET BUF	12/27/23 08:34
Total/NA	Analysis	6010C		1	696598	BMB	EET BUF	12/28/23 00:02
Total/NA	Analysis	310.2		5	696401	CG	EET BUF	12/23/23 12:18
Total/NA	Analysis	350.1		1	696678	IMZ	EET BUF	12/28/23 15:14
Total/NA	Analysis	353.2		1	696247	IMZ	EET BUF	12/21/23 16:43
Dissolved	Filtration	Filtration			696288	KM	EET BUF	12/22/23 07:28
Dissolved	Analysis	7196A		1	696290	KM	EET BUF	12/22/23 07:28
Total/NA	Analysis	7196A		1	696253	GW	EET BUF	12/21/23 16:02
Total/NA	Analysis	SM 4500 S2 F		1	696402	AM	EET BUF	12/23/23 14:11

Eurofins Buffalo

Client Sample ID: MW-8S

Lab Sample ID: 480-215961-4

Matrix: Water

Date Collected: 12/21/23 11:26 Date Received: 12/21/23 14:44

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	3005A			696356	EMO	EET BUF	12/27/23 08:34
Total/NA	Analysis	6010C		1	696598	BMB	EET BUF	12/28/23 00:06
Total/NA	Prep	3005A			696356	EMO	EET BUF	12/27/23 08:34
Total/NA	Analysis	6010C		1	696848	BMB	EET BUF	12/29/23 14:54
Total/NA	Analysis	310.2		5	696401	CG	EET BUF	12/23/23 12:19
Total/NA	Analysis	350.1		1	696678	IMZ	EET BUF	12/28/23 15:15
Total/NA	Analysis	353.2		1	696247	IMZ	EET BUF	12/21/23 16:45
Total/NA	Analysis	7196A		1	696253	GW	EET BUF	12/21/23 16:02
Total/NA	Analysis	SM 4500 S2 F		1	696402	AM	EET BUF	12/23/23 14:11

Lab Sample ID: 480-215961-5 **Client Sample ID: MW-9S** Date Collected: 12/21/23 09:50

Matrix: Water

Date Received: 12/21/23 14:44

_	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	3005A			696356	EMO	EET BUF	12/27/23 08:34
Total/NA	Analysis	6010C		1	696598	BMB	EET BUF	12/28/23 00:09
Total/NA	Prep	3005A			696356	EMO	EET BUF	12/27/23 08:34
Total/NA	Analysis	6010C		1	696848	BMB	EET BUF	12/29/23 14:57
Total/NA	Analysis	310.2		5	696401	CG	EET BUF	12/23/23 12:19
Total/NA	Analysis	350.1		1	696678	IMZ	EET BUF	12/28/23 15:20
Total/NA	Analysis	353.2		1	696247	IMZ	EET BUF	12/21/23 16:46
Total/NA	Analysis	7196A		1	696253	GW	EET BUF	12/21/23 16:02
Total/NA	Analysis	SM 4500 S2 F		1	696402	AM	EET BUF	12/23/23 14:11

Client Sample ID: WETLAND F Lab Sample ID: 480-215961-6

Date Collected: 12/21/23 10:42 Date Received: 12/21/23 14:44

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	3005A			696356	EMO	EET BUF	12/27/23 08:34
Total/NA	Analysis	6010C		1	696598	BMB	EET BUF	12/28/23 00:20
Total/NA	Analysis	310.2		1	696401	CG	EET BUF	12/23/23 12:08
Total/NA	Analysis	350.1		1	696678	IMZ	EET BUF	12/28/23 15:24
Total/NA	Analysis	353.2		1	696247	IMZ	EET BUF	12/21/23 16:47
Total/NA	Analysis	7196A		1	696253	GW	EET BUF	12/21/23 16:02
Total/NA	Analysis	SM 4500 S2 F		1	696402	AM	EET BUF	12/23/23 14:11

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Matrix: Water

Accreditation/Certification Summary

Client: Roux Environmental Engineering and Geology DPC

Project/Site: Roux-Peter Cooper sites

Job ID: 480-215961-1

Laboratory: Eurofins Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date	
New York	NELAP	10026	03-31-24	

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Method Summary

Client: Roux Environmental Engineering and Geology DPC

Project/Site: Roux-Peter Cooper sites

Method **Method Description** Protocol Laboratory 6010C SW846 **EET BUF** Metals (ICP) 310.2 Alkalinity **EPA EET BUF** Nitrogen, Ammonia EPA 350.1 **EET BUF** 353.2 Nitrate EPA EET BUF 7196A Chromium, Hexavalent SW846 **EET BUF** SM 4500 S2 F Sulfide, Total SM **EET BUF** 3005A Preparation, Total Metals SW846 EET BUF 3005A Preparation, Total Recoverable or Dissolved Metals SW846 **EET BUF**

Protocol References:

EPA = US Environmental Protection Agency

Sample Filtration

None = None

Filtration

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

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Job ID: 480-215961-1

EET BUF

None

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Sample Summary

Client: Roux Environmental Engineering and Geology DPC Project/Site: Roux-Peter Cooper sites

Job ID: 480-215961-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-215961-1	Blind Duplicate	Water	12/21/23 12:00	12/21/23 14:44
480-215961-2	MW-5S	Water	12/21/23 10:31	12/21/23 14:44
480-215961-3	MW-7S	Water	12/21/23 11:54	12/21/23 14:44
480-215961-4	MW-8S	Water	12/21/23 11:26	12/21/23 14:44
480-215961-5	MW-9S	Water	12/21/23 09:50	12/21/23 14:44
480-215961-6	WETLAND F	Water	12/21/23 10:42	12/21/23 14:44

Eurofins Buffalo

Login Sample Receipt Checklist

Client: Roux Environmental Engineering and Geology DPC

Job Number: 480-215961-1

Login Number: 215961 List Source: Eurofins Buffalo

List Number: 1

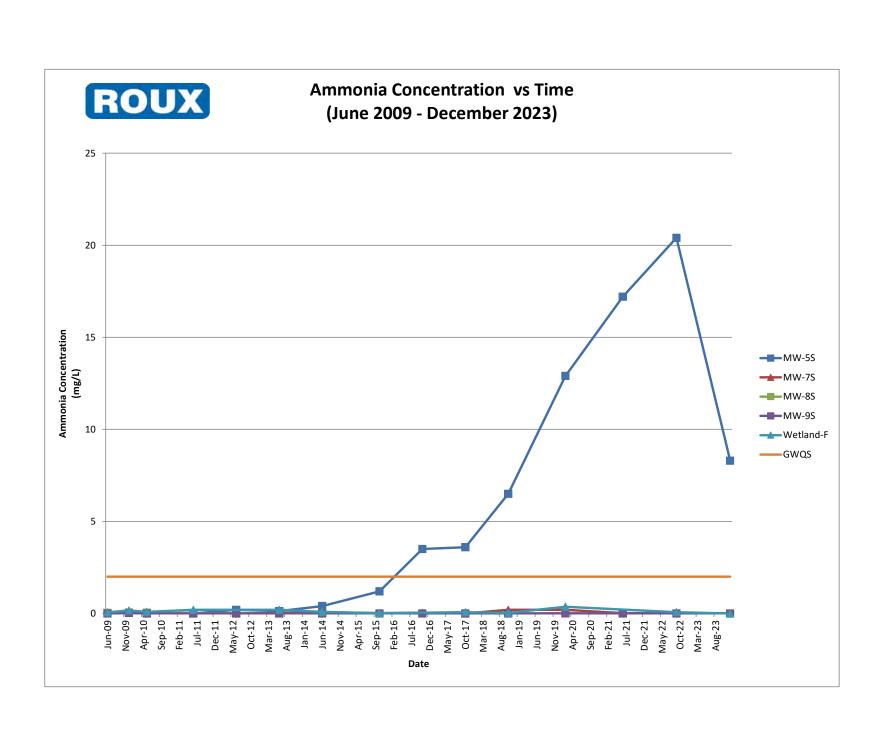
Creator: Stopa, Erik S

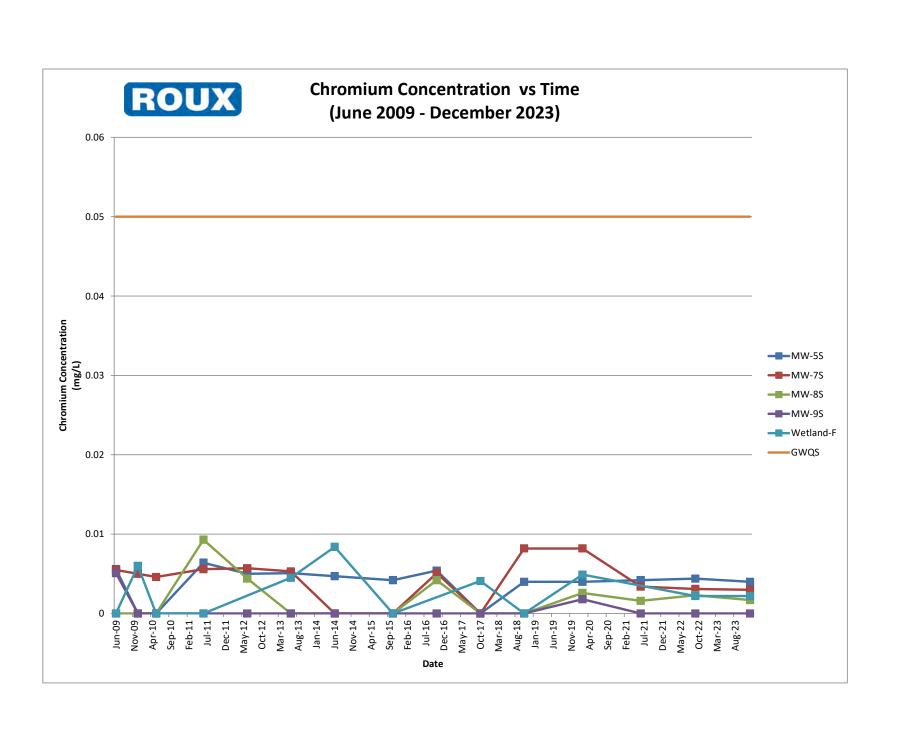
Creator. Stopa, Erik S		
Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	ROUX
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

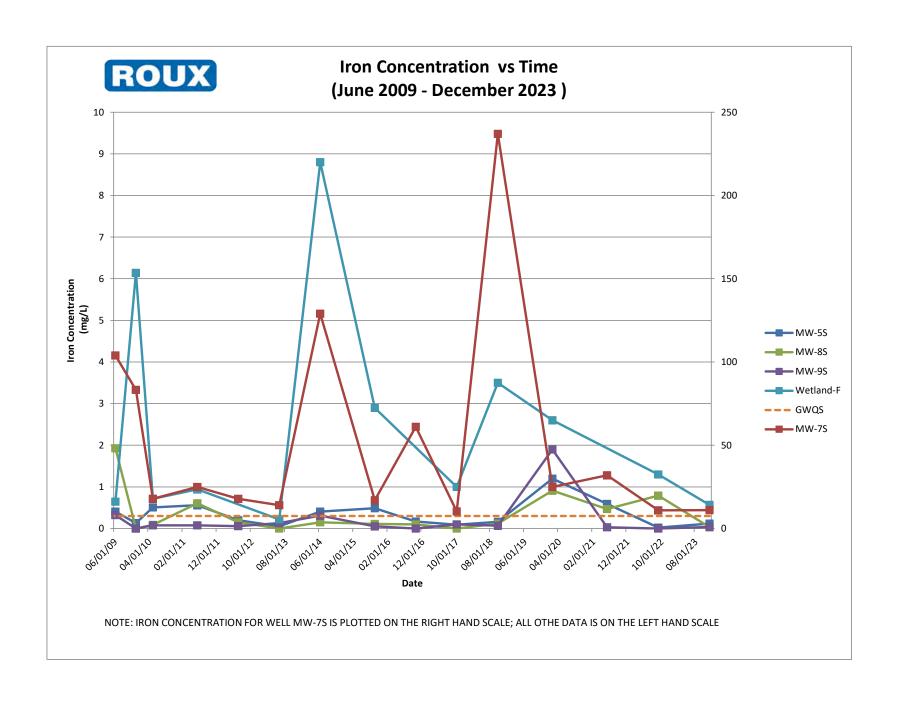
Eurofins Buffalo

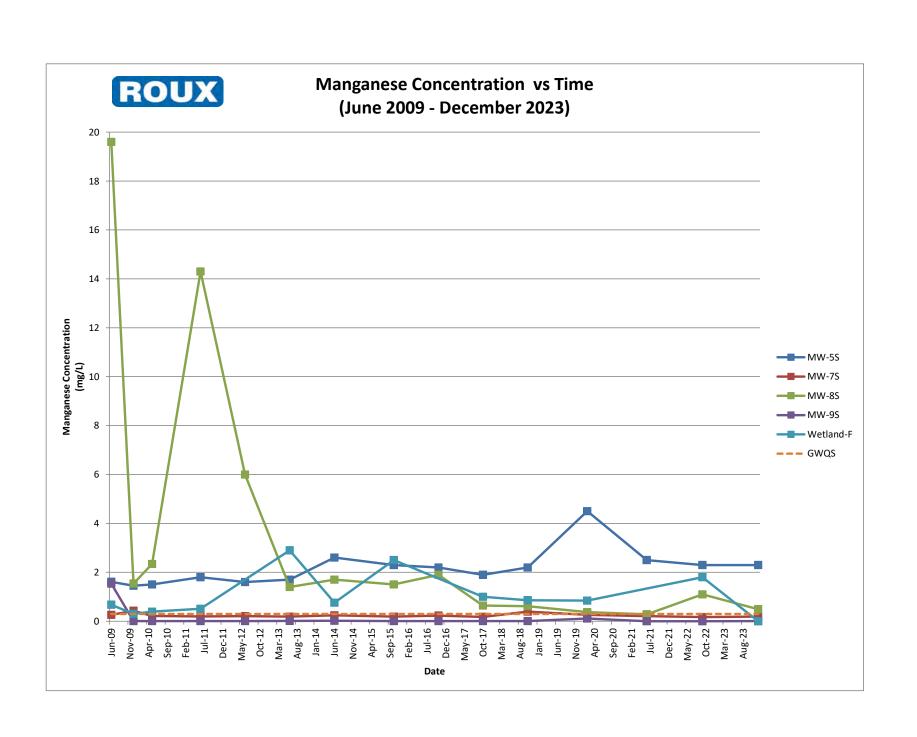
1/2/2024

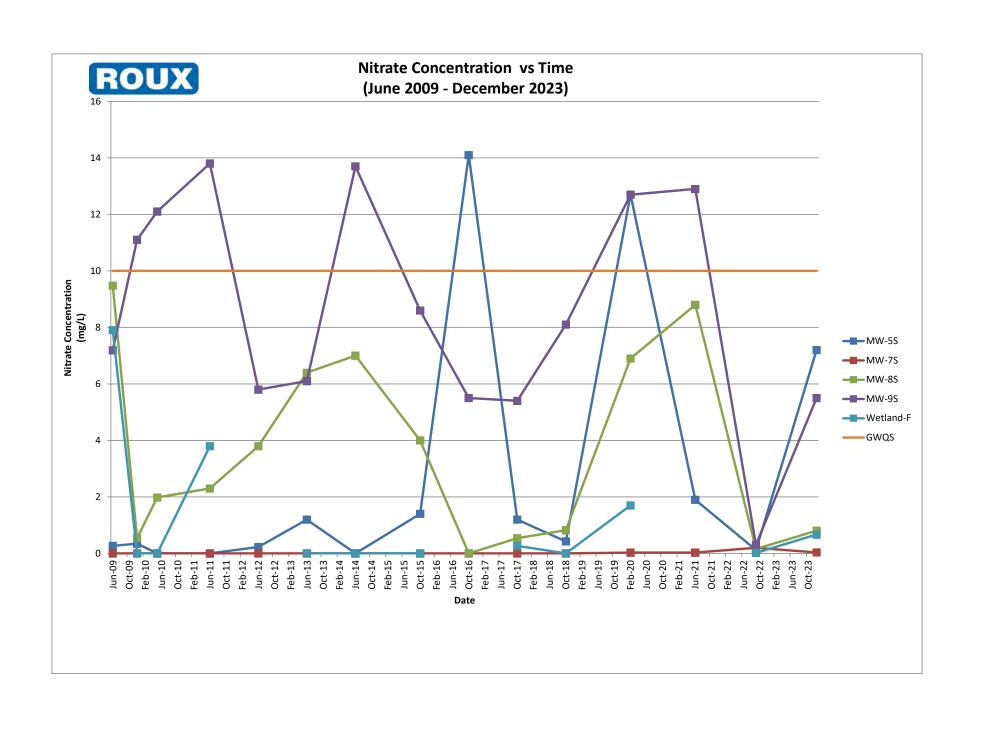
ATTACHMENT 3 HISTORIC DATA CHARTS











ATTACHMENT 4

FIELD INSPECTION FORM & PHOTOLOG



Field Inspection Report Post-Remedial Operation & Maintenance Plan

Property Name: Peter Cooper Markhams Site	Project No.:	4548.00018
Client: Biltekoff & Pullen		
Property Address: Bentley Road	Dayton, NY 1	4041
Property ID: (Tax Assessment Map) Section:		Lot(s):
Preparer's Name Tom Behrenth	Date/Time:	12/2/23 1300
CERTIFICATION		
The results of this inspection were discussed with the have been identified and noted in this report, and a completed. Proper implementation of these correct Manager, agreed upon, and scheduled. Preparer / Inspector: Tom Behrend	supplemental Corre	ective Action Form has been
Signature:		
Next Scheduled Inspection Date:		
Property Access		
Is the access road in need of repair?	☐ yes	`□no □ N/A
Sufficient signage posted (No Trespassing)?	yes	no N/A
3. Has there been any noted or reported trespassing	ng? 🗍 yes	□ N/A
Please note any irregularities/ changes in site acc	cess and security:	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Final Surface Cover / Vegetation	urfa eo envorago (o g	anhalt concrete) over the
The integrity of the vegetative soil cover or other su entire Site must be maintained. The following docu	• • •	
1. Final Cover is in Place and in good condition?	yes] no 🔲 N/A
Cover consists of (mainly): Wild Vegatative G	Grass Cover	
2. Evidence of erosion?	☐ yes	N/A
3. Cracks visible in pavement?	☐ yes ☐] no 🖳 N/A
4. Evidence of distressed vegetation/turf?	☐ yes 🚡	no 🗆 N/A
5. Evidence of unintended traffic and/or rutting?	☐ yes	no 🗆 N/A
6. Evidence of uneven settlement and/or ponding?	' □ yes	no 🗆 N/A



Field Inspection Report Post-Remedial Operation & Maintenance Plan

Final Surface Cover / Vegetation				
7. Damage to any surface coverage?	☐ yes	200	□ N/A	
f yes to any question above, please provide more i	nformation be	elow.		
Gas Vent System Monitoring and Maintenance				
			A	
Are there signs of stressed vegetation around gas	s vents?	☐ yes	Do	□ N/A
Are the gas vents currently intact and operational	?	yes	□ no	□ N/A
Has regular maintenance and monitoring been do	cumented and	d enclosed or	referenced?	
		☐ yes	□ no	N/A
				9.5
Groundwater Monitoring				
Is there a plan in place and currently being followed	ed?	yes	□ no	□ N/A
Are the wells currently intact and operational?		ves		□ N/A
When was the most recent sampling event report When is the next projected sampling event? Da	and submittal	Pate:	12/21/2 2025	.3
Property Use Changes / Site Development				
Ligating property was abaneous as site becaused			antine?	
Has the property usage changed, or site been red	eveloped sinc	e the last insp	Decilon?	□ N/A
If yes, please list with date:			9	



Field Inspection Report Post-Remedial Operation & Maintenance Plan

New Information			
Has any new information been brought to the owner/eng engineering and institutional controls and their operation			and/or all
	☐ yes	NO NO	□ N/A
Comments:		Δ	
This space for Notes and Comments			
Please include the following Attachments:			
1. Site Sketch			
2. Photographs			



PHOTOGRAPHIC LOG

Client Name:

Site Location:

Peter Cooper -Markhams Site

Project No.: 0199-001-100

Photo No.

Date

3

12/21/23

Direction Photo Taken:

West

Description:

PVC Vent pipe on elevated fill area.



Photo No.

Date

4

12/21/23

Direction Photo Taken:

West

Description:

Top of containment fill area facing west.



Prepared By: _____

TAB



PHOTOGRAPHIC LOG

Client Name: Site Location: Project No.:

Peter Cooper -Markhams Site

Photo No. Date

1 12/21/23

Direction Photo Taken:

East

Description:

Elevated fill area.



Photo No. Date
2 12/21/23

Direction Photo Taken:

East

Description:

Elevated fill area.



Prepared By: TAB