UPPER NINE MILE RIVER WATERSHED SURFACE WATER QUALITY ASSESSMENT



2023 Results Update



1. Introduction and Purpose

A surface water quality study was initiated by the Five Bridges Wilderness Heritage Trust (FBWHT) in the spring of 2014 to determine if development activities within the headwaters of the Nine Mile River watershed have had an adverse effect on surface water quality of the Nine Mile River. The Nine Mile River is the main river flowing through the Five Bridge Lakes Wilderness Area, a protected wilderness area established by the Province of Nova Scotia in 2011 (Figure 1, Appendix A). The upper watershed of the Nine Mile River examined in this assessment is situated north of Highway 103 and north of the Five Bridge Lakes Wilderness Area (Figure 2, Appendix A). The activities and land uses within this part of the watershed which singularly or cumulatively may have an effect on the water quality of the river system, include:

- Kingswood rural residential subdivision established along Hammonds Plains Road in the 1980s;
- Highland Park rural residential subdivision established along Hammonds Plains Road in the 1960s;
- Glen Arbour rural residential subdivision, commercial plazas, restaurants and Hammonds Plains Consolidated Elementary School established in 1967 through to present day;
- Lakeside Industrial Park established in the 1970s;
- The Links Brunello Golf Course (opened in 2015) and the associated rural residential subdivision Brunello Estates starting in 2011, as well as recent / ongoing commercial development along Timberlea Village Parkway near Highway 103 and at the intersection with St. Margaret's Bay Road;
- Otter Lake Municipal Landfill, established in 1997;
- Greenwood Heights rural residential subdivision in Timberlea, established in the 1970s, and expanded in the 1990s; and
- Halifax Regional Municipality (HRM) Lakeside/Timberlea wastewater treatment facility in Timberlea, commissioned in 1984.

The rural residential subdivisions have on-site wells and septic systems except for Timberlea and western portion of Lakeside which transmit domestic sewage wastewater to the HRM wastewater treatment facility situated on the east side of the Nine Mile River, as shown on Figure 8 (Appendix A). This facility discharges treated effluent to the Nine Mile River. The eastern portion of Lakeside, Beechville and Lakeside Industrial Park directs sewage wastewater to the Halifax wastewater treatment facility on Lower Water Street.

Initially, a total of seven sampling locations (SW1 to SW7) were selected in 2014 immediately downstream of these development areas; however, in 2015 an additional three sampling locations (SW8 to SW10) were added. Samples were collected on five occasions (August 2014, June 2015, November 2016, November 2020 and August 2023) to in an attempt to account for seasonal variability in weather and stream flow conditions. Photos and Figures of the ten sampling locations are provided in Appendix A.

2. ACKNOWLEDGEMENTS

Funding for this project, to cover third party costs and expenses, was initially provided in 2014-15 by RBC via their Bluewater Grant Program, and in 2016, 2020 and 2023 with funds received by FBWHT

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as a Partner of the Bay Treasure Chest Association. The sampling events in 2014 and 2015 were led by FBWHT Board Member and Retired Hydrogeologist Peter Lund, assisted by summer students from Clean Nova Scotia in 2014 and the Sackville Rivers Association in June 2015. In 2016 and 2020, water samples were collected by Peter Lund and Bridget Adams, also a Retired Hydrogeologist and Board Member of FBWHT.

Prior to the first sampling event, the summer students assembled mapping of land use, surficial and bedrock geology, zoning, land uses, ditches and streams in order to create a Geographic Information System (GIS) database of baseline information of the upper watershed. We would like to acknowledge and thank Jeff Parks, P.Geo., a Hydrogeologist, GIS mapping expert and local resident of Hubley, who volunteered his time to upgrade and edit the maps and figures as provided in Appendix A.

3. Previous Assessments

Previous surface water quality data were obtained from HRM related to annual monitoring reports submitted by the Otter Lake Landfill operators and Brunello Estates as a requirement of their HRM development approvals. HRM also completed surface sample sampling for five years across the municipality and three of those locations were in the current study area.

4. Scope of Work

The scope of the assessment included the following activities:

- Collection of surface water samples at seven locations (SW1 to SW7) on August 6- and 11, 2014 for chemical analyses of general chemistry, total metals, total suspended solids (TSS), select bacteriological parameters (total, e-coli and fecal coliform) at Maxaam Analytics (now Bureau Veritas) in Bedford, NS;
- Collection of surface water samples at SW1 to SW10 on June 3, 2015, November 22, 2016, November 17, 2020 and August 22, 2023(also included petroleum hydrocarbons), for the same chemical parameters (except for e-coli and coliforms) but analyzed at AGAT Laboratories in Dartmouth, NS;
- Collection of field blanks and duplicate samples for analysis of chemical parameters to ensure Quality Assurance and Quality Control (QA/QC);
- Collection of field data using a YSI multimeter (WetPro) to measure for pH, temperature, specific conductance, colour, dissolved oxygen, and total dissolved solids (TDS), provided by St. Mary's University, during the August 2014 and November 2016 sampling events, and again in 2023 for TDS, specific conductance and temperature;
- Recording of daily weather conditions leading up to and including days of sampling;
- Obtaining available GIS-based digital mapping from the Province and HRM;
- Obtaining annual monitoring reports submitted by consultants to HRM by respective developers/operators of Brunello Golf Course/Estates and Otter Lake landfill;
- Obtaining annual monitoring data for three locations in the Study Area, spanning 2008-2012 from HRM;
- Creation of GIS mapping into Figures, as provided in Appendix A;



- Assemble tables of SW1 to SW10 analytical data, plus QA/QC data, with comparison to applicable CCME Freshwater Aquatic Life Guidelines and Nova Scotia Environmental Quality Standards (NS-EQS) for Contaminated Sites (Pathway Specific Standards for Surface Water) (Appendix B);
- Interpretation of findings; and
- Preparation of report.

Maxaam Analytics and AGAT Laboratories provided the sample bottles, containing preservatives where required, and affixed with the appropriate labels, Chain of Custody forms, and coolers.

5. DISCUSSION

5.1 Geology

The entire Nine Mile River watershed is underlain by Late Devonian aged granitic rocks of the South Mountain Batholith, except for the upper reaches of the watershed where sample stations SW1 and SW10 are located in Hammonds Plains, which is underlain by metasiltstone, slate and metasandstone of the older Cambrian-Ordovician aged Halifax and Goldenville Groups (Figure 3, Appendix A).

5.2 Surface Water Quality Sampling Locations

The sampling locations were selected to determine if development upstream of these locations has had any impact on the receiving waters which all flow to the Nine Mile River. Focus was placed on surface streams in the headwaters of the Nine Mile River north of Highway 103. The only major development within the Nine Mile River watershed south of Highway 103 is the Otter Lake Landfill situated east of the Nine Mile River.

The sampling event in August 2014 was conducted during a low flow period with little rain occurring in the preceding six days (3.9 mm occurring three days before the sampling event). The sampling events in June 2015, November 2016 and November 2020 were conducted the day after moderate rainfall events. The August 2023 sampling event was conducted four days following a heavy rainfall event (38.4 mm).

The land use situated upstream of the sample locations are described as:

- SW1 (Masons Mill Pond Brook) Hammonds Plains Consolidated School built in 1967, portion of Glen Arbour residential subdivision constructed in the late 1990s, two small strip malls along Hammonds Plains Road constructed in early 2000s and Vernon's Thunderbird Diner constructed in 2017 (Figure 4, Appendix A).
- SW2 (brook between Thompsons Pond and Coxs Lake) the older portion of Highland Park residential subdivision built in the 1960s (Figure 5, Appendix A).
- SW3 (Fraser's Lake outflow) downstream of the older portion of Highland Park, newer portion of Kingswood built in the 1980s and Voyageur Estates built in the 1990s. (Figure 6, Appendix A). This sample location is downstream of SW1 and SW2.
- SW4 (Governor Lake outflow) off Trinity Road, downstream of Brunello Golf Course which opened in 2015 and Brunello Estates residential subdivision which started in 2011, Lakeside Industrial Park and residents along Highway 3 in Timberlea adjoining Governors Lake. This sample location is downstream of SW6 (Figure 7, Appendix A).



- SW5 (Nine Mile River, south of Highway 3) downstream of all other sample locations except for SW8 and SW9 (Figure 8, Appendix A).
- SW6 (inlet to Governor Lake) downstream of Lakeside Industrial Park (Figure 9, Appendix A).
- SW7 (inlet to The Mill Pond from Kingswood subdivision) –downstream of the older portion of Kingswood residential subdivision (Figure 6, Appendix A).
- SW8 (Nine Mile River, south (downstream) of HRM Wastewater Treatment Facility commissioned in 1984) north of Highway 103, downstream of all sample locations except for SW9 (Figure 8, Appendix A.
- SW9 (outflow of Half Mile Lake in Timberlea subdivision) –situated downstream of Greenwood Heights residential subdivision in Timberlea (Figure 8, Appendix A).
- SW10 (outflow of Schmidt's Lake in Voyageur Estates subdivision)—situated downstream of newer portion of Kingswood subdivision (Figure 10, Appendix A.

All residential and commercial developments along Hammonds Plains Road have individual on-site septic systems and domestic wells. All residential, industrial and commercial developments in Timberlea and Lakeside are connected to municipal water and wastewater services, with the exception of a few homes north of Highway #3 along Fraser's Lake in Timberlea.

5.3 Surface Water Quality Results

The water quality results indicate there are no obvious adverse effects, nor any cumulative effects, from the various land uses situated in the headwaters of the Nine Mile River, with the exception that Dissolved Oxygen (DO) was below the acceptable CCME Freshwater Aquatic Life (FAL) Guidelines (6.5 – 9.5 mg/L) at all sample locations (1.72-5.03 mg/L) in August 2014, with the exception of the upper reaches of the watershed at SW1 and SW2 (7.5-8.4 mg/L respectively). The DO levels in November 2014 were within acceptable ranges, so the low DO levels in the summer can be attributed to the higher water temperatures in the summer, i.e. in the order of 20-23 degrees Celsius.

It is also noted that fecal coliforms and E. Coli were reported at all sample locations when analyzed for in 2014-15 and were higher in the August 2014 and June 2015 sample results, compared with the November 2015 results. There are no surface water guidelines for coliforms or E. Coli.

The water is slightly acidic, with pH values reported in the range of 5.56-7.34, compared to the CCME FAL Guideline range of 6.5-9.0. These reported values are common throughout the Province, as are the elevated aluminum values reported at all sample locations (45-452 μ g/L) compared with the NS Environmental Quality Standard (EQS) and CCME FAL range of 5-100 μ g/L. The exception was an aluminum value of $634~\mu$ g/L at SW-1 in June 2015, however, the values at this location were much lower (46-186 μ g/L) in the other sampling events. The pH of rainfall in the Province is generally low, as is the buffering capacity of soil and bedrock, as demonstrated by low reported hardness, along with low carbonate and bicarbonate alkalinity across the Province.

Iron was frequently above the referenced guideline of 300 μ g/L across the region, with values in the range of 51 – 1,430 μ g/L reported, with the exception of Kingswood Subdivision (SW7) and Voyageur Estates (SW10) where values were reported below the guideline, except for values of 394 and 412 μ g/L in August 2023, respectively. Iron was also generally below the guideline downgradient of the Lakeside Industrial Park (SW6), with the exception of an elevated value of 1200 μ g/L reported in August 2014 and slightly elevated value of 350 μ g/L in August 2023. Iron values were below the guideline in 2014



and 2015 at Fraser's Lake outlet (SW3), Trinity Road (SW4) and South of Highway #3 (SW5) and were above the guideline in the 2016, 2020 and 2023 sampling events. The highest iron values were reported at all locations in August 2023, with the exception of SW3 (Fraser's Lake outflow) and SW6 (Lakeside Industrial Park). Iron, like aluminum, is typically elevated across much of the Province.

Zinc was detected consistently above the NS EQS guideline of 7 μ g/L at SW4 (Trinity Rd.) and SW6 (Lakeside Industrial Park), with values of 8.1-45 μ g/L reported and zero to three event exceedances at other locations. There were exceedances of the NS EQS guideline for cadmium at SW1, SW4, SW5 and SW6 in 2014/2015 and copper in a few sampling events, but no trend overall.

Lead was detected occasionally and was below the guidelines with the exception of one sample at SW1 (mill Pond) on June 3, 2015 with a value of 5 μ g/L reported and in the duplicate sample collected at SW5 (South of Highway #3) on August 22, 2023 with a value of 5.2 μ g/L reported.

Elevated sodium and chloride were reported at the inflow (SW6) to and at the outflow (SW4) from Governor Lake in two of the sampling events (August 11, 2014 and June 3, 2015), but not in the Nine Mile River at the junction of Highway 3 (SW5). This likely is the cause of elevated conductivity values reported for SW4 and SW6 of 500-980 μ S/cm in these two sampling events.

Fluoride was elevated above the guideline of 0.12 mg/L in the one sampling event of June 3, 2015 at a few locations (SW2, SW3, SW4, SW5, SW8 and SW9) when values of 0.2 mg/L were reported. However, at SW6 (Lakeside Industrial Park), values were in the range of 0.14-0.3 mg/L in 2015, 2016 and 2023.

There is no apparent evidence of effects from fertilizer use considering the nitrate, nitrite and phosphate levels are reported low. Results of petroleum hydrocarbon analyses were all below detection. Total suspended solids (TSS) are consistently below guidelines, which is a good indicator that not much is silt getting into the river system.

6. Conclusions

There may be issues to fish in the watercourses in the upper reaches of the Nine Mile River system related to elevated temperatures and low dissolved oxygen levels in summer months due to the lack of sufficient tree cover, along with the presence of Fecal Coliforms and E. Coli throughout the year in all water courses sampled in 2014-2016. There were no other apparent concerns identified from the select chemical analyses.

Any questions and/or comments, please contact the Five Bridges Wilderness Heritage Trust.

Sincerely,

Peter Lund, P.Geo. (Retired)

Project Manager

Bridget Adams, P.Geo. (Retired)

Reviewer

Attachments: Appendix A: Figures and Photos

Appendix B: Analytical Tables

APPENDIX A

Figures and Photos

Figure 1 – Regional Protected Lands

Figure 2 – Upper Nine Mile River Watershed

Figure 3 – Regional Bedrock Geology

Figure 4 – Sampling SiteSW1

Figure 5 – Sampling Site SW2

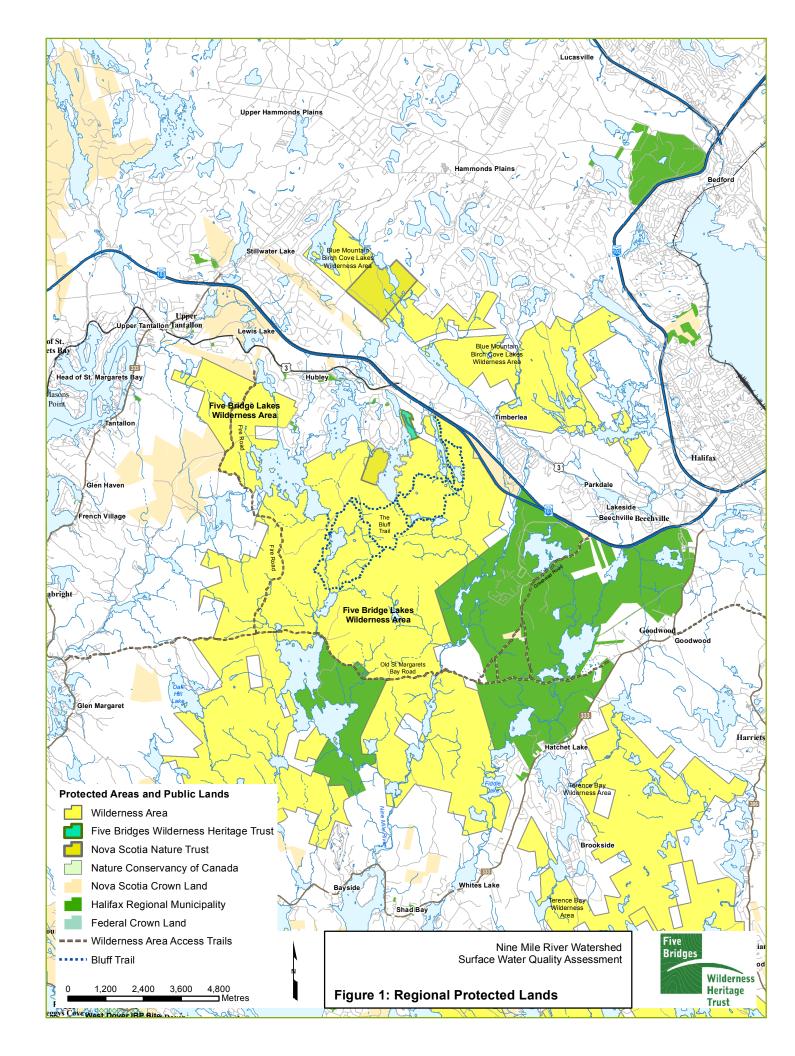
Figure 6 – Sampling Site SW3 and SW7

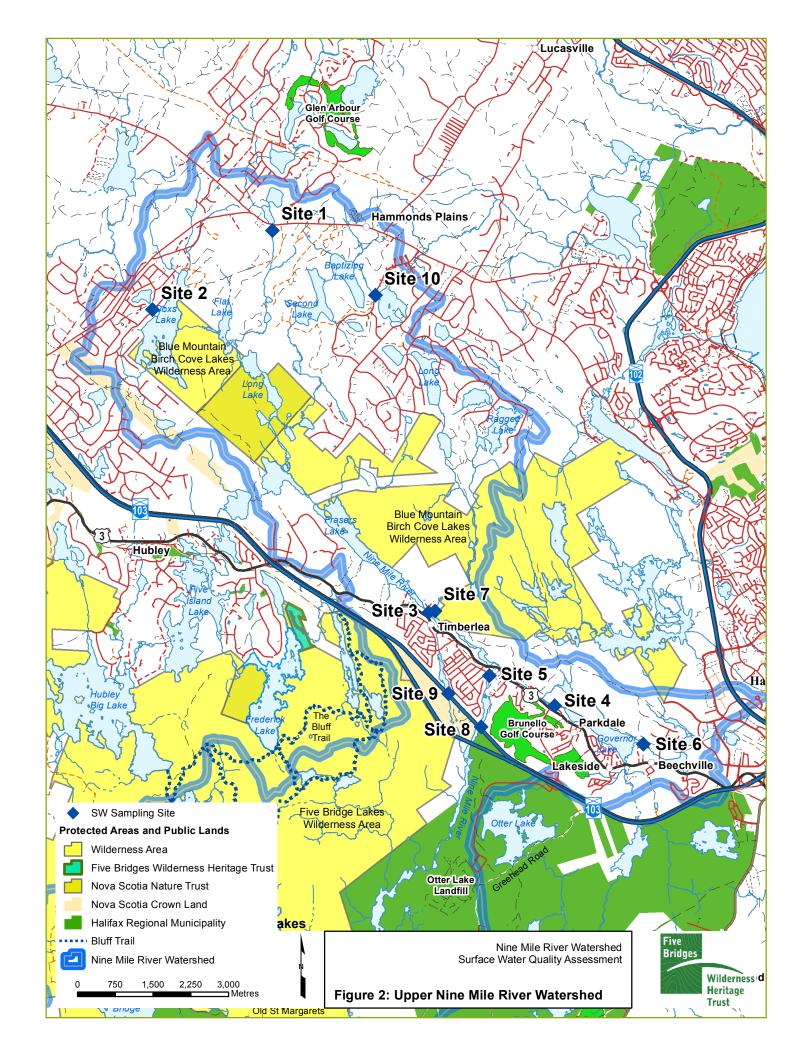
Figure 7 – Sampling Site SW4

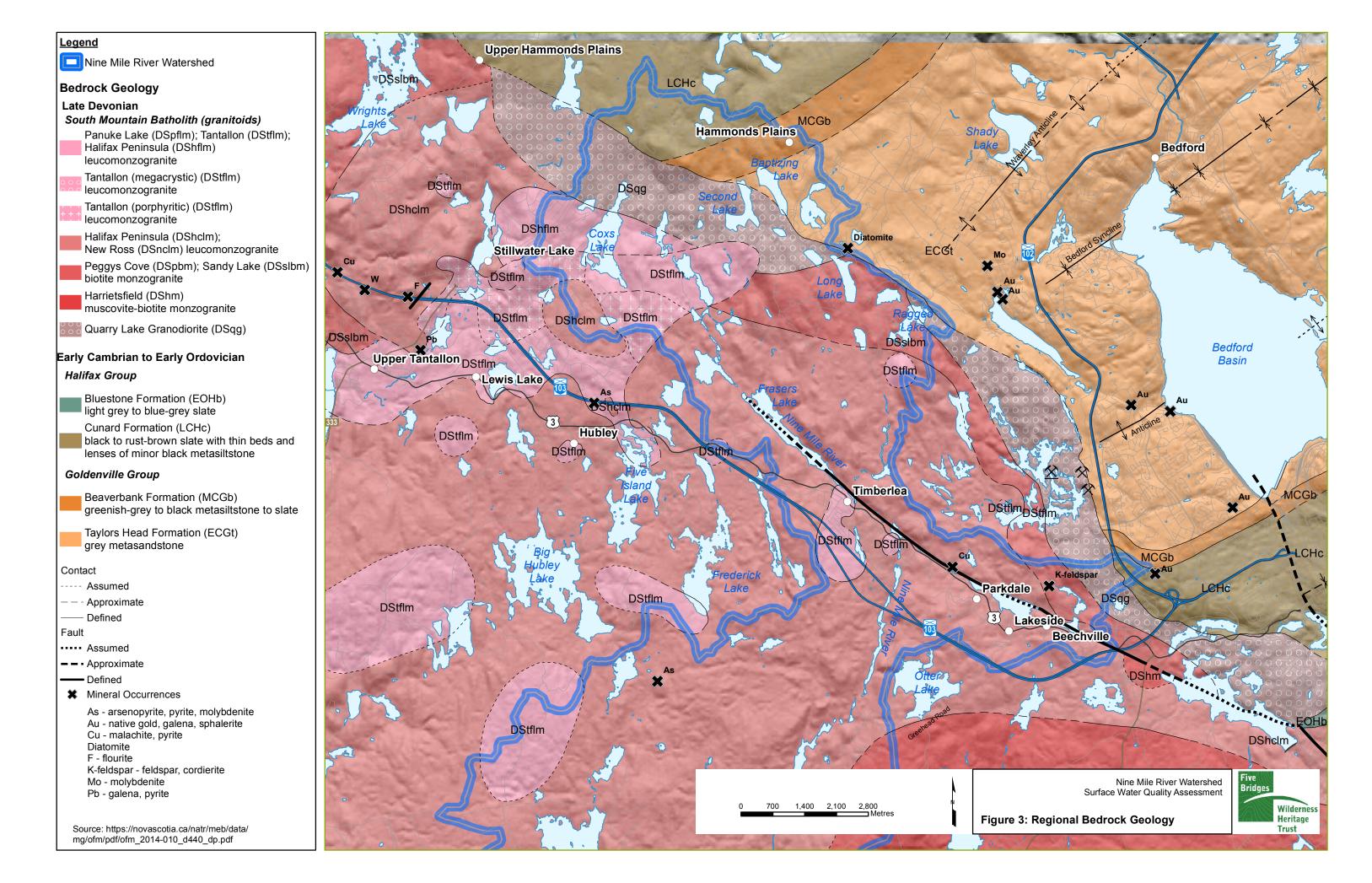
Figure 8 – Sampling Site SW5, SW8, and SW9

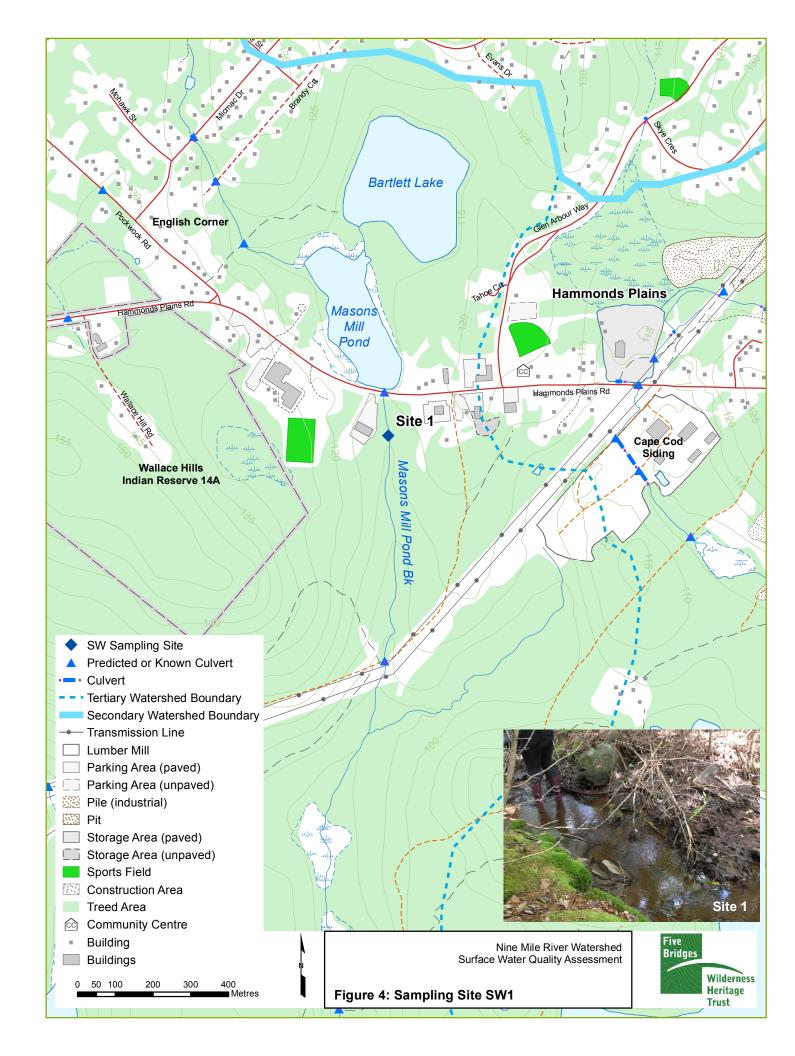
Figure 9 – Sampling Site SW6

Figure 10 – Sampling Site SW10



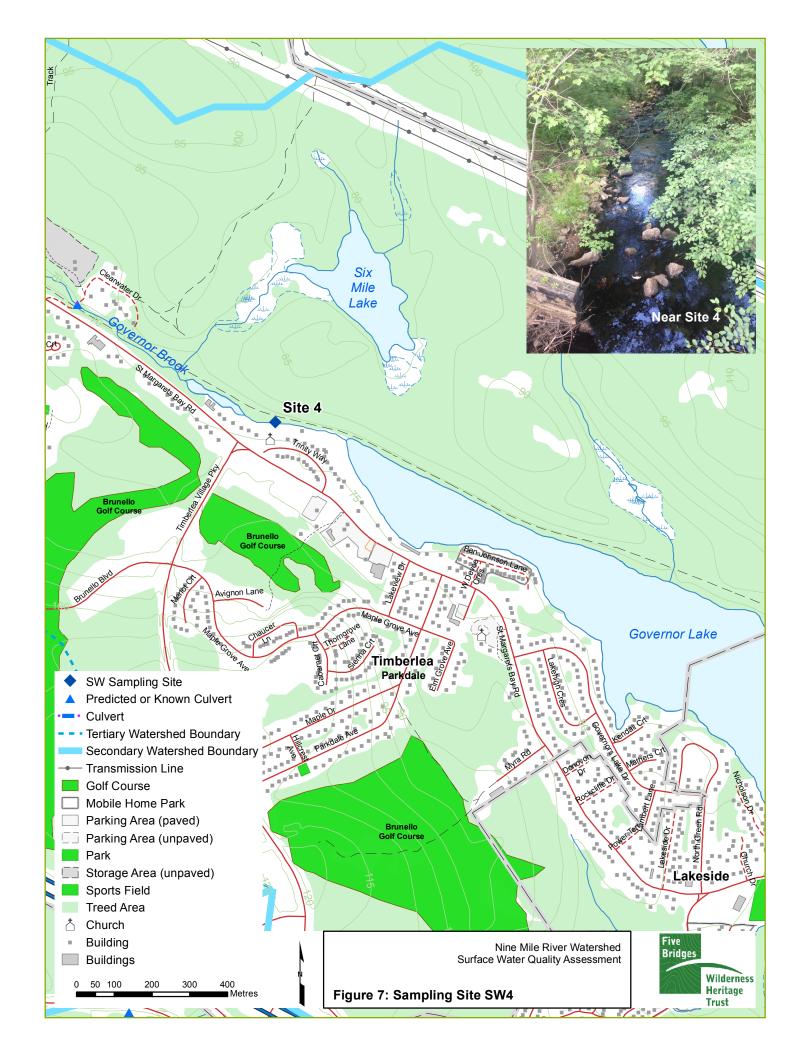


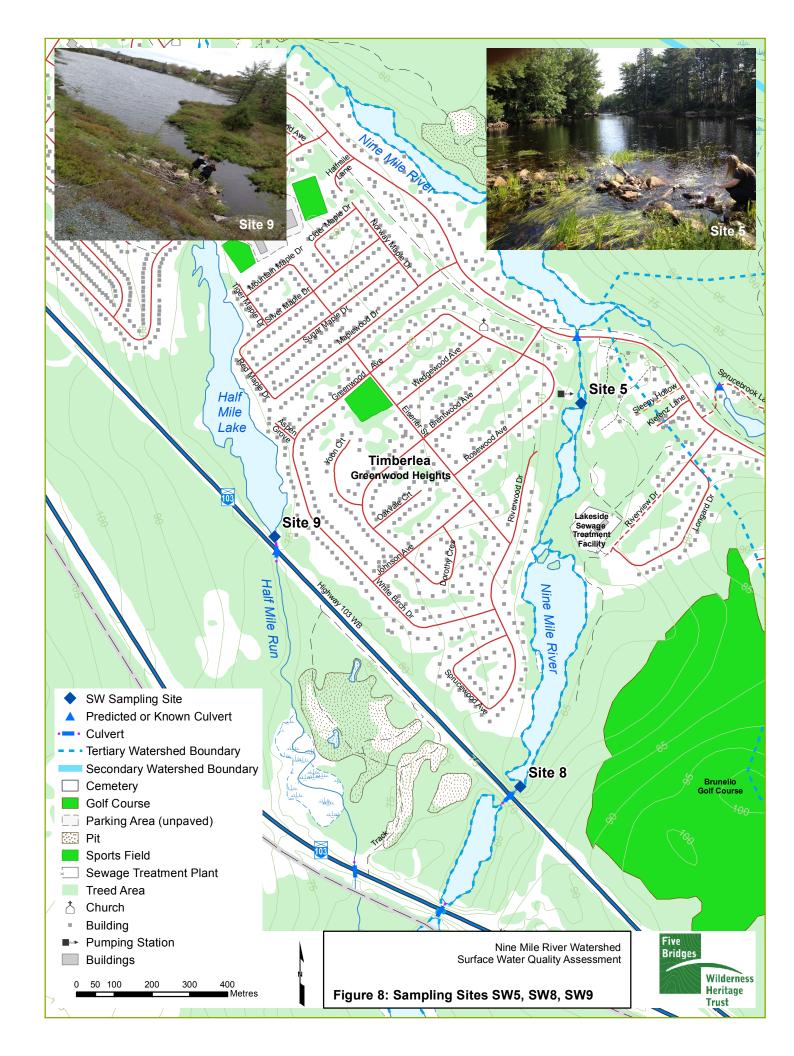


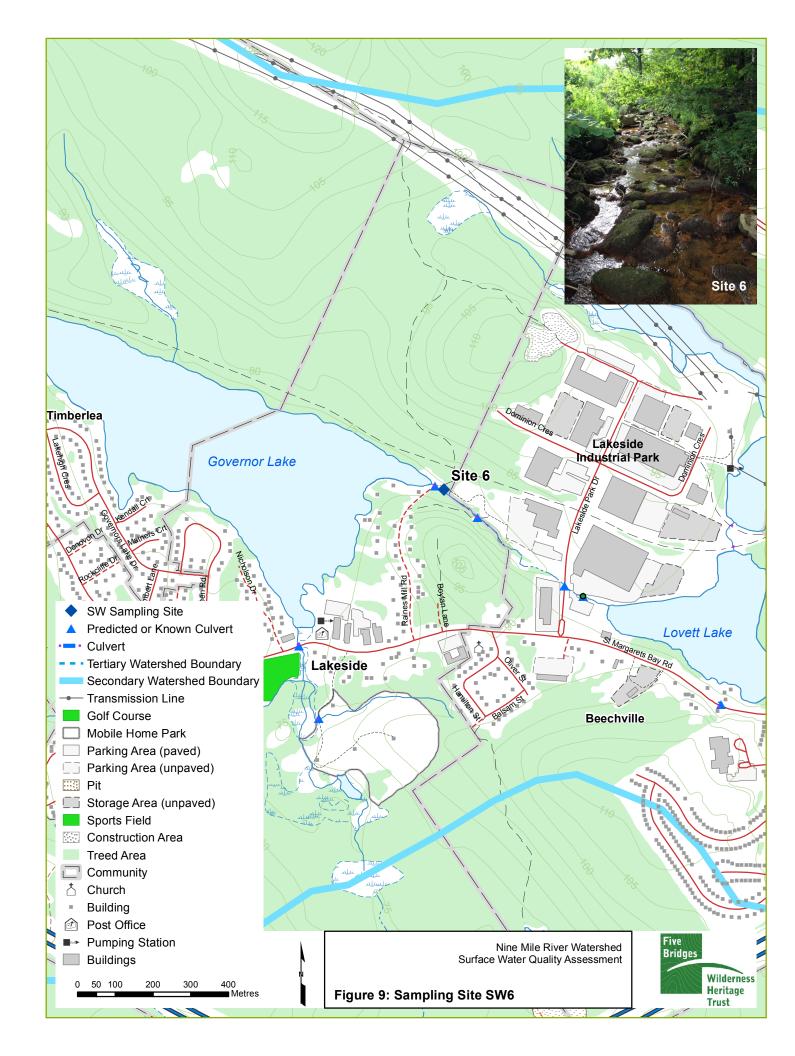


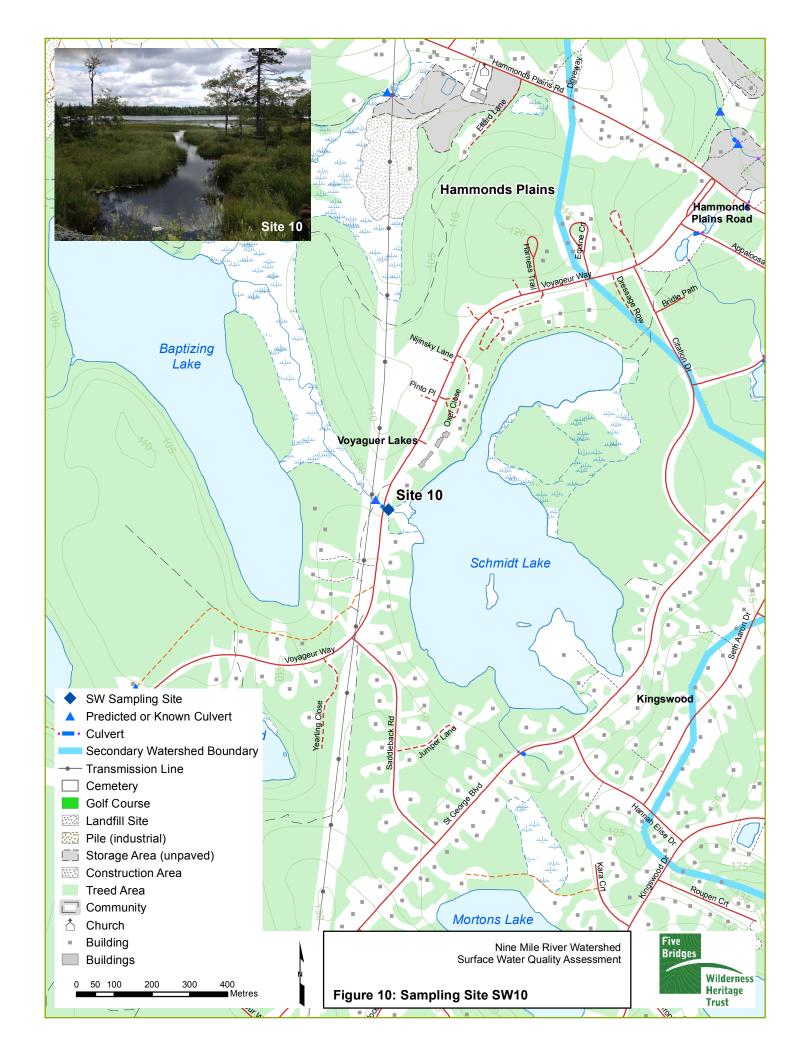
















 $SW1-South\ of\ Hammonds\ Plains\ Road,\ downstream\ of\ Glen\ Arbour\ and\ small\ strip\ malls$



SW2 – Looking north toward Highland Park subdivision





SW3 – Looking downstream from outflow of Frasers Lake eastward



 $SW5-South\ of\ Highway\ 3$ and HRM sewage treatment plant, looking south





SW9 – Looking north toward subdivision in Timberlea north of Highway 103



SW10- Downstream of Schmidt Lake, looking north



APPENDIX B

Analytical Tables including Field Measurements and

Laboratory Certificate of Analyses (2023)

Table 1:	Nine Mile	River Surface	Water Samplin	na Results

Table 1: Nine Mile River Surface Water Sampling	Results					FBWHT SW1		
Comment		Compariso	n Criteria			Mill Pond Outle	t	
Parameters	Units	CCME FAL ¹	NS EQS ²	6-Aug-2014	3-Jun-2015	22-Nov-2016	17-Nov-2020	22-Aug-2023
Field Measured Parameters								
Field TDS Field pH	mg/L pH units	 6 E 0 O	6.5 - 9.0	60 7.52		119.6 6.38		55
Specific Conductance	umho/cm	6.5 - 9.0	6.5 - 9.0	7.52		183.8		111
Field Temperature	°C			20.4		6		20.3
Colour	TCU					113.1		
Dissolved Oxygen % Saturation	%	Nin 0.5 0.51		75.4		101		
Dissolved Oxygen General Parameters	mg/L	Min 6.5 or 9.5 ¹		7.5		12.8		
pH (lab measured)	pH	6.5 - 9.0	6.5 - 9.0	6.8	5.94	6.81	6.85	6.52
Reactive Silica (SiO ₂)	mg/L			2.3	4.3	2.7	2.6	1.3
Chloride (CI)	mg/L	120 (640) ¹	120	91	102	38	54	18
Fluoride (F)	mg/L	0.12	0.12	n/a	<0.1	<0.12	n/a	<0.12
Sulphate (SO ₄) Alkalinity (Total as CaCO ₃)	mg/L		128	7.3	14 6	13	8	2
Colour	mg/L TCU			13 25	<5	8 29	13 73	11 142
Turbidity	NTU	narrative		0.53	37.2	2.3	3.3	2.79
Conductivity	μS/cm			330	394	181	220	115
Nitrite + Nitrate	mg/L			0.33	0.87	0.28	0.34	< 0.05
Nitrate (N)	mg/L	2.9 (120)1	2.9	0.33 <0.01	0.87 <0.05	0.28 <0.05	0.34 <0.01	<0.05 <0.05
Nitrite (N) Ammonia (as N)	mg/L	0.06 varies 1	0.06 varies ²	n/a	0.05	0.04	0.08	0.07
Total Organic Carbon (C)	mg/L mg/L	varies 	valles 	4.2	2.5	8.1	7.8	31.4
Orthophosphate (P)	mg/L			0.011	<0.01	<0.01	<0.01	<0.01
Total Suspended Solids (TSS)	mg/L	narrative		1.4	n/a	<5	n/a	n/a
Hardness (CaCO ₃)	mg/L			31	0	24.5	23	14.5
Lab Calculated Parameters Anion Sum	mell			3	3.35	1.52	1.96	0.77
Cation Sum	me/L me/L			2.72	3.35	1.61	1.85	1.13
Ion Balance (% Difference)	%			4.9	5.1	2.9	2.89	19
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L			13	6	8	13	11
Carb. Alkalinity (calc. as CaCO ₃)	mg/L			<1	<10	<10	<1	<10
Hydroxide	mg/L			n/a	<5	<5	n/a	<5
Calculated TDS Langelier Index (@ 20C)	mg/L			170 -2.53	206 -4.09	92 -3.03	114 -2.56	52 -3.4
Langelier Index (@ 4C)	-			-2.78	-4.41	-3.35	-2.81	-3.72
Saturation pH (@ 20C)	-			9.33	10	9.84	9.42	9.92
Saturation pH (@ 4C)	-			9.58	10.3	10.2	9.67	10.2
Bacteriogical Parameters	05111100			40	00	40		
Fecal Coliforms Total Coliforms	CFU/100mL CFU/100mL			16 >250	90 605	10 52	n/a n/a	n/a n/a
E. Coli	CFU/100mL			18	20	3	n/a	n/a
Total Metals								
Total Aluminum (AI)	μg/L	5 - 100 ¹	5 - 100 ²	46	634	199	112	186
Total Antimony (Sb)	μg/L		9	<1	<2	<2	<1.0	<2
Total Arsenic (As) Total Barium (Ba)	μg/L μg/L	5	5 1000	<1 20	<2 48	<2 13	<1.0 11.4	<2 9
Total Beryllium (Be)	μg/L		0.15	<1	<2	<2	<1.0	<2
Total Bismuth (Bi)	μg/L			<2	<2	<2	<2.0	<2
Total Boron (B)	μg/L	1500 (29,000) ¹	1500	<50	17	14	<50	7
Total Cadmium (Cd)	μg/L	equation ¹	0.09	0.024	0.126	0.017	<0.010	< 0.09
Total Calcium (Ca) Total Chromium (Cr)	μg/L	8.91	8.9	8800 <1	6500 3	7000 <1	6720 <1.0	4000 <2
Total Cobalt (Co)	μg/L μg/L	0.91	1	0.72	2	<1	<0.40	<1
Total Copper (Cu)	μg/L	2-41	2-4 ²	<2	2	2	1.1	<2
Total Iron (Fe)	μg/L	300	300	850	844	361	1150	1430
Total Lead (Pb)	μg/L	1-71	1-7 ²	< 0.5	5	<0.5	< 0.50	<0.5
Total Magnesium (Mg)	μg/L			2200	1500	1700	1570	1100
Total Manganese (Mn)	μg/L	varies 1	430	300 <2	9.62	33	77.1	203
Total Molybdenum (Mo) Total Nickel (Ni)	μg/L μg/L	73 25-150 ¹	73 25-150 ²	<2	2	<2 <2	<2.0 <2.0	<2 <2
Total Phosphorus (P)	μg/L			<100	150	50	<100	0.35
Total Potassium (K)	μg/L			1200	1300	1200	1400	2000
Total Selenium (Se)	μg/L	1	1	<1	1	<1	<0.50	<1
Total Sodium (No.)	μg/L	0.25	0.25	< 0.1	<0.1	<0.1	<0.10	<0.1
Total Sodium (Na) Total Strontium (Sr)	μg/L μg/L		21000	47000 44	71100 51	24200 30	29900 28.3	16200 18
Total Thallium (TI)	μg/L	0.8	0.8	<0.1	<0.1	<0.1	<0.10	<0.1
Total Tin (Sn)	μg/L			<2	<2	<2	<2.0	<2
				<2	17	3	<2.0	3
Total Titanium (Ti)	μg/L		15	< 0.1	< 0.1	< 0.1	< 0.10	<0.2 <2
Total Titanium (Ti) Total Uranium (U)	μg/L	15 (33) ¹						
Total Titanium (Ti) Total Uranium (U) Total Vanadium (V)	μg/L μg/L		120	<2	<2	<2	<2.0	
Total Titanium (Ti) Total Uranium (U) Total Vanadium (V) Total Zinc (Zn)	μg/L μg/L μg/L	dissolved only	120 7	<2 12	<2 20	<2 12		<5
Total Titanium (Ti) Total Uranium (U) Total Vanadium (V)	μg/L μg/L		120	<2	<2	<2	<2.0 <5.0	
Total Titanium (Ti) Total Uranium (U) Total Vanadium (V) Total Zinc (Zn) Total Mercury (Hg) Hydrocarbons Benzene	µg/L µg/L µg/L ug/L mg/L	dissolved only 0.026	120 7 0.026	<2 12 n/a n/a	<2 20 n/a n/a	<2 12 n/a n/a	<2.0 <5.0 <0.013	<5 n/a <0.001
Total Titanium (Ti) Total Vanalium (U) Total Vanadium (V) Total Zinc (Zn) Total Mercury (Hg) Hydrocarbons Benzene Toluene	μg/L μg/L μg/L ug/L mg/L mg/L	0.37 0.002	120 7 0.026 2.1 0.77	<2 12 n/a n/a n/a	<2 20 n/a n/a n/a	<2 12 n/a n/a n/a	<2.0 <5.0 <0.013 n/a n/a	<5 n/a <0.001 <0.001
Total Titanium (Ti) Total Uranium (U) Total Vanadium (V) Total Zinc (Zn) Total Mercury (Hg) Hydrocarbons Benzene Toluene Ethylbenzene	μg/L μg/L μg/L ug/L mg/L mg/L mg/L	0.026 0.37 0.002 0.09	120 7 0.026 2.1 0.77 0.32	<2 12 n/a n/a n/a n/a	<2 20 n/a n/a n/a n/a	<2 12 n/a n/a n/a n/a	<2.0 <5.0 <0.013 n/a n/a n/a	<5 n/a <0.001 <0.001 <0.001
Total Titanium (Ti) Total Vanadium (V) Total Zinc (Zn) Total Mercury (Hg) Hydrocarbons Benzene Toluene Ethylbenzene Xylene (Total)	μg/L μg/L μg/L ug/L mg/L mg/L mg/L mg/L	0.026 0.37 0.002 0.09	120 7 0.026 2.1 0.77 0.32 0.33	<2 12 n/a n/a n/a n/a n/a	<2 20 n/a n/a n/a n/a n/a	<2 12 n/a n/a n/a n/a n/a	<2.0 <5.0 <0.013 n/a n/a n/a n/a	<5 n/a <0.001 <0.001 <0.001 <0.001 <0.002
Total Titanium (Ti) Total Uranium (U) Total Zinc (Zn) Total Zinc (Zn) Total Mercury (Hg) Hydrocarbons Benzene Toluene Ethylbenzene Xylene (Total) C6-C10 (less BTEX)	µg/L µg/L µg/L ug/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	0.026 0.37 0.002 0.09	120 7 0.026 2.1 0.77 0.32	<2 12 n/a n/a n/a n/a	<2 20 n/a n/a n/a n/a	<2 12 n/a n/a n/a n/a	<2.0 <5.0 <0.013 n/a n/a n/a n/a n/a	<5 n/a <0.001 <0.001 <0.001
Total Titanium (Ti) Total Vanadium (V) Total Zinc (Zn) Total Mercury (Hg) Hydrocarbons Benzene Toluene Ethylbenzene Xylene (Total)	μg/L μg/L μg/L ug/L mg/L mg/L mg/L mg/L	dissolved only 0.026 0.37 0.002 0.09	120 7 0.026 2.1 0.77 0.32 0.33	<2 12 n/a n/a n/a n/a n/a n/a n/a n/a n/a	<2 20 n/a n/a n/a n/a n/a n/a	<2 12 n/a n/a n/a n/a n/a n/a	<2.0 <5.0 <0.013 n/a n/a n/a n/a	<5 n/a <0.001 <0.001 <0.001 <0.002 <0.001
Total Titanium (Ti) Total Uranium (U) Total Vanadium (V) Total Zinc (Zn) Total Mercury (Hg) Hydrocarbons Benzene Toluene Ethylbenzene Xylene (Total) C6-C10 (less BTEX) >C10-C16 Hydrocarbons >C21-C32 Hydrocarbons	µg/L µg/L µg/L ug/L ug/L mg/L mg/L	0.026 0.37 0.002 0.09	120 7 0.026	<2 12 n/a	<2 20 n/a	<2 12 n/a	<2.0 <5.0 <0.013 n/a n/a n/a n/a n/a n/a n/a	<5 n/a <0.001 <0.001 <0.001 <0.001 <0.002 <0.01 <0.005 <0.05 <0.1
Total Titanium (Ti) Total Vanalium (U) Total Vanalium (V) Total Zinc (Zn) Total Mercury (Hg) Hydrocarbons Benzene Toluene Ethylbenzene Xylene (Total) C6-C10 (less BTEX) >C10-C16 Hydrocarbons >C16-C21 Hydrocarbons Modified TPH (Tier 1)	µg/L µg/L µg/L ug/L ug/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L m	0.026 0.37 0.002 0.09	120 7 0.026 2.1 0.77 0.32 0.33 0.1 - 1.5 ²	<2 12 n/a n/a n/a n/a n/a n/a n/a n/a n/a n/a	<2 20 n/a	<2 12 n/a	<2.0 <5.0 <0.013 n/a n/a n/a n/a n/a n/a n/a n/a	<5 n/a <0.001 <0.001 <0.001 <0.002 <0.01 <0.05 <0.05 <0.1 <0.1
Total Titanium (Ti) Total Uranium (U) Total Vanadium (V) Total Zinc (Zn) Total Mercury (Hg) Hydrocarbons Benzene Toluene Ethylbenzene Xylene (Total) C6-C10 (less BTEX) >C10-C16 Hydrocarbons >C21-C32 Hydrocarbons	µg/L µg/L µg/L ug/L ug/L mg/L mg/L	dissolved only 0.026 0.026 0.37 0.002 0.09	120 7 0.026	<2 12 n/a	<2 20 n/a	<2 12 n/a	<2.0 <5.0 <0.013 n/a n/a n/a n/a n/a n/a n/a	<5 n/a <0.001 <0.001 <0.001 <0.001 <0.002 <0.01 <0.005 <0.05 <0.1

Table 1:	Nine Mile	e River Surface	· Water Samplii	na Results

Table 1: Nine Mile River Surface Water Sampling R	esults					FBWHT SW2		
Comments		Compariso	n Criteria			Highland Park		
Parameters	Units	CCME FAL ¹	NS EQS ²	6-Aug-2014	3-Jun-2015	22-Nov-2016	17-Nov-2020	22-Aug-2023
Field Measured Parameters								
Field TDS	mg/L			95 7.64		152.1 6.29		66
Field pH Specific Conductance	pH units umho/cm	6.5 - 9.0	6.5 - 9.0	7.04		234.2		132
Field Temperature	°C			22.9		7.5		20.8
Colour	TCU					156		
Dissolved Oxygen % Saturation	%			90.7		95		
Dissolved Oxygen	mg/L	Min 6.5 or 9.5 ¹		8.44		11.3		
General Parameters								
pH (lab measured)	pH	6.5 - 9.0	6.5 - 9.0	7.34	6.76	7.19	7.13	6.48
Reactive Silica (SiO ₂)	mg/L	120 (640)1	400	2 55	1.1 47	2.6 50	2.9 44	<0.5 18
Chloride (CI) Fluoride (F)	mg/L mg/L	120 (640) ¹ 0.12	120 0.12	n/a	0.2	<0.12	n/a	<0.12
Sulphate (SO ₄)	mg/L		128	3.7	8	10	8	6
Alkalinity (Total as CaCO ₃)	mg/L			19	<5	16	18	16
Colour	TCU			35	26	22	35	<5.00
Turbidity	NTU	narrative		0.55	3.9	2.8	2.1	0.77
Conductivity	μS/cm			230	204	230	190	137
Nitrite + Nitrate	mg/L			0.1	0.24	0.17	0.24	0.18
Nitrate (N)	mg/L	2.9 (120)1	2.9	0.1	0.24	0.17	0.24	0.18
Nitrite (N)	mg/L	0.06	0.06	<0.01	< 0.05	<0.05	<0.01	< 0.05
Ammonia (as N)	mg/L	varies 1	varies 2	n/a 5	<0.03 4.3	0.04 7.4	0.1 6.1	<0.03 9.3
Total Organic Carbon (C) Orthophosphate (P)	mg/L mg/L			<0.01	<0.01	<0.01	<0.01	<0.01
Total Suspended Solids (TSS)	mg/L	narrative		<1	n/a	<5	n/a	n/a
Hardness (CaCO ₃)	mg/L			27	23.2	31.5	25	23.7
Lab Calculated Parameters								
Anion Sum	me/L			2.03	1.51	1.95	1.78	0.97
Cation Sum	me/L			1.96	1.73	2.09	1.65	1.3
Ion Balance (% Difference)	%			1.75	6.8	3.3	3.79	14.7
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L			19	<5	16	18	16
Carb. Alkalinity (calc. as CaCO ₃)	mg/L			<1	<10 <5	<10 <5	<1	<10 <5
Hydroxide Calculated TDS	mg/L			n/a 120	94	116	n/a 103	63
Langelier Index (@ 20C)	mg/L -			-1.83	-3.29	-2.25	-2.11	-3.04
Langelier Index (@ 4C)	-			-2.08	-3.61	-2.57	-2.36	-3.36
Saturation pH (@ 20C)	-			9.17	10.1	9.44	9.24	9.52
Saturation pH (@ 4C)	-			9.42	10.4	9.76	9.49	9.84
Bacteriogical Parameters								
Fecal Coliforms	CFU/100mL			1	40	8	n/a	n/a
Total Coliforms	CFU/100mL			>250	85	<1	n/a	n/a
E. Coli	CFU/100mL			1	45	<1	n/a	n/a
Total Metals Total Aluminum (AI)	μg/L	5 - 100 ¹	5 - 100 ²	45	124	182	92.6	67
Total Antimony (Sb)	μg/L		9	<1	<2	<2	<1.0	<2
Total Arsenic (As)	μg/L	5	5	<1	<2	<2	<1.0	<2
Total Barium (Ba)	μg/L		1000	10	14	15	13.7	15
Total Beryllium (Be)	μg/L		0.15	<1	<2	<2	<1.0	<2
Total Bismuth (Bi)	μg/L			<2	<2	<2	<2.0	<2
Total Boron (B)	μg/L	1500 (29,000) ¹	1500	<50	17	18	<50	25
Total Cadmium (Cd)	μg/L	equation ¹	0.09	<0.01	<0.017	<0.017	<0.010	<0.09
Total Calcium (Ca)	μg/L			7900	6800	9000	7030	7000
Total Coholt (Co.)	μg/L	8.91	8.9 1	<0.4	<1 <1	<1	<1.0 <0.40	<2 <1
Total Cobalt (Co) Total Copper (Cu)	μg/L	2-4 ¹	2-4 ²	<2	2	1	1.09	<2
Total Iron (Fe)	μg/L μg/L	300	300	390	321	397	244	519
Total Lead (Pb)	μg/L	1-71	1-7 ²	<0.5	<0.5	<0.5	<0.50	< 0.5
Total Magnesium (Mg)	μg/L			1800	1500	2200	1760	1500
Total Manganese (Mn)	μg/L	. 1				98		65
	μy/L	varies 1	430	33	68	30	46.8	05
Total Molybdenum (Mo)	μg/L	varies 73	430 73	33	68	<2	46.8 <2.0	<2
Total Molybdenum (Mo) Total Nickel (Ni)				<2 <2	<2 <2	<2 <2	<2.0 <2.0	<2 <2
Total Molybdenum (Mo) Total Nickel (Ni) Total Phosphorus (P)	μg/L μg/L μg/L	73 25-150 ¹ 	73 25-150 ² 	<2 <2 <100	<2 <2 190	<2 <2 50	<2.0 <2.0 <100	<2 <2 0.86
Total Molybdenum (Mo) Total Nickel (Ni) Total Phosphorus (P) Total Potassium (K)	µg/L µg/L µg/L µg/L	73 25-150 ¹ 	73 25-150 ² 	<2 <2 <100 1400	<2 <2 190 1400	<2 <2 50 2100	<2.0 <2.0 <100 1770	<2 <2 0.86 1900
Total Molybdenum (Mo) Total Nickel (Ni) Total Phosphorus (P) Total Potassium (K) Total Selenium (Se)	µg/L µg/L µg/L µg/L µg/L	73 25-150 ¹ 1	73 25-150 ² 1	<2 <2 <100 1400 <1	<2 <2 190 1400	<2 <2 50 2100 <1	<2.0 <2.0 <100 1770 <0.50	<2 <2 0.86 1900 <1
Total Molybdenum (Mo) Total Nickel (Ni) Total Phosphorus (P) Total Potassium (K) Total Selenium (Se) Total Silver (Ag)	µg/L µg/L µg/L µg/L µg/L µg/L	73 25-150 ¹ 1 0.25	73 25-150 ² 	<2 <2 <100 1400 <1 <0.1	<2 <2 190 1400 1 <0.1	<2 <2 50 2100 <1 <0.1	<2.0 <2.0 <100 1770 <0.50 <0.10	<2 <2 0.86 1900 <1 <0.1
Total Molybdenum (Mo) Total Nickel (Ni) Total Phosphorus (P) Total Postasium (K) Total Selenium (Se) Total Silver (Ag) Total Soldium (Na)	µg/L µg/L µg/L µg/L µg/L µg/L	73 25-150 ¹ 1 0.25	73 25-150 ² 1 0.25	<2 <2 <100 1400 <1 <0.1 32000	<2 <2 190 1400 1 <0.1 27700	<2 <2 50 2100 <1 <0.1 31300	<2.0 <2.0 <100 1770 <0.50 <0.10 25000	<2 <2 0.86 1900 <1 <0.1 17200
Total Molybdenum (Mo) Total Nickel (Ni) Total Phosphorus (P) Total Potassium (K) Total Selenium (Se) Total Selenium (Se) Total Sodium (Na) Total Sodium (Na) Total Storitium (Sr)	µg/L µg/L µg/L µg/L µg/L µg/L µg/L	73 25-150 ¹ 1 0.25 	73 25-150 ² 1 0.25 21000	<2 <2 <100 1400 <1 <0.1 32000 38	<2 <2 190 1400 1 <0.1	<2 <2 50 2100 <1 <0.1	<2.0 <2.0 <100 1770 <0.50 <0.10 25000 34.6	<2 <2 0.86 1900 <1 <0.1 17200 32
Total Molybdenum (Mo) Total Nickel (Ni) Total Phosphorus (P) Total Postasium (K) Total Selenium (Se) Total Silver (Ag) Total Soldium (Na)	ha\r ha\r ha\r ha\r ha\r ha\r ha\r ha\r	73 25-150 ¹ 1 0.25	73 25-150 ² 1 0.25	<2 <2 <100 1400 <1 <0.1 32000	<2 <2 190 1400 1 <0.1 27700 33	<2 <2 50 2100 <1 <0.1 31300 44	<2.0 <2.0 <100 1770 <0.50 <0.10 25000	<2 <2 0.86 1900 <1 <0.1 17200
Total Molybdenum (Mo) Total Nickel (Ni) Total Phosphorus (P) Total Potassium (K) Total Selenium (Se) Total Silver (Ag) Total Sodium (Na) Total Sodium (Sr) Total Stontium (Sr) Total Thallium (TI)	µg/L µg/L µg/L µg/L µg/L µg/L µg/L	73 25-150 ¹ 1 0.25 0.8	73 25-150 ² 1 0.25 21000 0.8	<2 <2 <100 1400 <1 <0.1 32000 38 <0.1	<2 <2 190 1400 1 <0.1 27700 33 <0.1	<2 <2 50 2100 <1 <0.1 31300 44 <0.1	<2.0 <2.0 <100 1770 <0.50 <0.10 25000 34.6 <0.10 <2.0	<2 <2 0.86 1900 <1 <0.1 17200 32 <0.1
Total Molybdenum (Mo) Total Nickel (Ni) Total Phosphorus (P) Total Potassium (K) Total Selenium (Se) Total Silver (Ag) Total Sodium (Na) Total Sodium (Na) Total Strontium (Sr) Total Thallium (TI) Total Tin (Sn) Total Tintanium (Ti) Total Uranium (U)	hâ/r hâ/r hâ/r hâ/r hâ/r hâ/r hâ/r hâ/r	73 25-150 ¹ 1 0.25 0.8	73 25-150 ² 1 0.25 21000 0.8 15	<2 <2 <100 1400 <11 <0.1 32000 38 <0.1 <2 <2 <0.1	<2	<2	<2.0 <100 <1770 <0.50 <0.10 25000 34.6 <0.10 <2.0 4.2 <0.10	<2 <2 0.86 1900 <1 <0.1 17200 32 <0.1 <2 <3 <0.2 <
Total Molybdenum (Mo) Total Nickel (Ni) Total Phosphorus (P) Total Potassium (K) Total Selenium (Se) Total Silver (Ag) Total Sodium (Na) Total Sodium (In) Total Thallium (Ti) Total Thallium (Ti) Total Titanium (Ti) Total Titanium (Ti) Total Uranium (U) Total Vanadium (V)	µg/L	73 25-150 ¹ 1 0.25 0.8 15 (33) ¹	73 25-150 ² 1 0.25 21000 0.8 15	<2 <2 <100 14400 <11 <0.1 32000 38 <0.1 <2 <2 <2 <0.1 <2 <0.1 <2 <0.1 <2 <0.1 <2 <0.1 <2 <0.1 <2 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	<2 <2 190 1400 1 <0.1 27700 33 <0.1 <2 4 4 <0.1 <2 <2 4 4 <2 <2 <4 <0.1 <2 <4 <2 <4 <0.1 <2 <4 <0.1 <2 <4 <0.1 <2 <4 <0.1 <2 <4 <0.1 <2 <4 <0.1 <2 <4 <0.1 <2 <4 <0.1 <2 <4 <0.1 <2 <4 <0.1 <2 <4 <0.1 <2 <4 <0.1 <2 <4 <0.1 <2 <4 <0.1 <2 <4 <0.1 <2 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0	<2 <2 <50 <2100 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	<2.0 <2.0 <100 1770 <0.50 <0.10 25000 34.6 <0.10 <2.0 4.2 <0.10 <2.0	<2
Total Molybdenum (Mo) Total Nickel (Ni) Total Phosphorus (P) Total Potassium (K) Total Selenium (Se) Total Silver (Ag) Total Sodium (Na) Total Strontium (Sr) Total Thallium (Ti) Total Tin (Sn) Total Titanium (Ti) Total Uranium (U) Total Zinc (Zn)	h8/r h8/r h8/r h8/r h8/r h8/r h8/r h8/r	73 25-150 ¹ 1 0.25 0.8 15 (33) ¹ dissolved only	73 25-150 ² 1 0.25 21000 0.8 15 120 7	<2 <2 <100 1400 1400 <11 <2.1 <10 <10 <10 <10 <10 <10 <10 <10 <10 <1	<2 <2 190 1400 1 <0.1 27700 33 <0.1 <2 4 <0.1 <2 <5	<2 <2 <2 50 2100 <1 <0.1 31300 44 <0.1 <2 6 <0.1 <2 <5	<2.0 <2.0 <100 1770 <0.50 <0.10 25000 34.6 <0.10 <2.0 4.2 <0.10 <2.0 <5.0	<2 <2 0.86 1900 <1 <0.1 17200 32 <0.1 <2 <3 <0.2 <2 <5
Total Molybdenum (Mo) Total Nickel (Ni) Total Phosphorus (P) Total Potassium (K) Total Selenium (Se) Total Silver (Ag) Total Soltenium (Se) Total Soltenium (Se) Total Strontium (Sr) Total Thallium (TI) Total Tin (Sn) Total Titanium (Ti) Total Uranium (U) Total Vanadium (V) Total Mercury (Hg)	µg/L	73 25-150 ¹ 1 0.25 0.8 15 (33) ¹	73 25-150 ² 1 0.25 21000 0.8 15	<2 <2 <100 14400 <11 <0.1 32000 38 <0.1 <2 <2 <2 <0.1 <2 <0.1 <2 <0.1 <2 <0.1 <2 <0.1 <2 <0.1 <2 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	<2 <2 190 1400 1 <0.1 27700 33 <0.1 <2 4 4 <0.1 <2 <2 4 4 <2 <2 <4 <0.1 <2 <4 <2 <4 <0.1 <2 <4 <0.1 <2 <4 <0.1 <2 <4 <0.1 <2 <4 <0.1 <2 <4 <0.1 <2 <4 <0.1 <2 <4 <0.1 <2 <4 <0.1 <2 <4 <0.1 <2 <4 <0.1 <2 <4 <0.1 <2 <4 <0.1 <2 <4 <0.1 <2 <4 <0.1 <2 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0	<2 <2 <50 <2100 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	<2.0 <2.0 <100 1770 <0.50 <0.10 25000 34.6 <0.10 <2.0 4.2 <0.10 <2.0	<2
Total Molybdenum (Mo) Total Nickel (Ni) Total Phosphorus (P) Total Potassium (K) Total Selenium (Se) Total Silver (Ag) Total Sodium (Na) Total Sodium (Na) Total Storntium (Sr) Total Thallium (TI) Total Tin (Sn) Total Tinalium (TI) Total Tranium (U) Total Vanadium (V) Total Vanadium (V) Total Zinc (Zn) Total Mercury (Hg) Hydrocarbons	48/L 48/L	73 25-150 ¹ 1 0.25 0.8 15 (33) ¹ dissolved only 0.026	73 25-150 ² 1 0.25 21000 0.8 15 120 7 0.026	<2 <2 <100 1400 <1 <0.1 32000 38 <0.1 <2 <2 <0.1 <2 <0.1 <2 <0.1 <2 <0.1 <2 <0.1 <2 <0.1 <2 <0.1 <2 <0.1 <2 <0.1 <2 <0.1 <2 <0.1 <2 <0.1 <2 <0.1 <2 <0.1 <2 <0.1 <2 <0.1 <2 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	<2 <2 <2 <9 <9 <9 <9 <9 <9 <9 <9 <9 <9 <9 <9 <9	<2 <2 50 50 2100 <1 <1 <0.1 31300 44 <0.1 <2 6 6 <0.1 <2 <5 n/a	<2.0 <2.0 <100 1770 <0.50 <0.10 25000 34.6 <0.10 <2.0 4.2 <0.10 <2.0 <5.0 <0.10	<2 <2 <2 0.86 1900 <1 <0.1 17200 32 <0.1 <2 <3 <0.2 <5 n/a
Total Molybdenum (Mo) Total Nickel (Ni) Total Phosphorus (P) Total Posphorus (P) Total Potassium (K) Total Selenium (Se) Total Siver (Ag) Total Sodium (Na) Total Strontium (Sr) Total Thallium (TI) Total Tinallium (TI) Total Titanium (TI) Total Titanium (U) Total Vanaium (U) Total Zinc (Zn) Total Vaneium (V)	49/L 49/L 49/L 49/L 49/L 49/L 49/L 49/L	73 25-150 ¹ 1 0.25 0.8 15 (33) ¹ dissolved only 0.026	73 25-150 ² 1 0.25 21000 0.8 15 120 7 0.026	<2 <2 <100 1400 1400 <11 <0.1 32000 38 <0.1 <2 <2 <0.1 <2 <0.1 <2 <0.1 <2 <0.1 <2 <0.1 <2 <0.1 <2 <0.1 <2 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	<2 <2 <2 190 1400 1 400 1 27700 33 <0.1 <2 4 <0.1 <2 <5 n/a n/a	<2 <2 <2 50 2100 <1	<2.0 <2.0 <100 1770 <0.50 <0.10 25000 34.6 <0.10 <2.0 4.2 <0.10 <2.0 <5.0 <0.10	<2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <
Total Molybdenum (Mo) Total Nickel (Ni) Total Phosphorus (P) Total Potassium (K) Total Selenium (Se) Total Silver (Ag) Total Sodium (Na) Total Strontium (Sr) Total Thailium (Ti) Total Trailium (Ti) Total Trailium (Ti) Total Trailium (U) Total Zinc (Zn) Total Zinc (Zn) Total Mercury (Hg) Hydrocarbons Benzene Totule Nickel (Nickel (Ni	µg/L	73 25-150 ¹ 1 0.25 0.8 15 (33) ¹ dissolved only 0.026	73 25-150 ² 1 0.25 21000 0.8 15 120 7 0.026	<2 <2 <100 1400 <11 <0.1 <2 <2 <0.1 <0.1 <32000 38 <0.1 <2 <2 <0.1 <2 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	<2 <2 <2 190 1400 1 <0.1 27700 33 <0.1 <0.1 <2.2 4 <0.1 <2.5 n/a n/a n/a	<2 <2 <2 50 2100 <1 <0.1 31300 44 <0.1 <2 6 <0.1 <2 6 <0.1 <2 7 7 8 7 7 7 7 7 7 7 7 7 7 7 7 7	<2.0 <2.0 <100 1770 <0.50 <0.10 25000 34.6 <0.10 25000 4.2 <0.10 <2.0 <0.10 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <	<2 <2 <2 <2 <4 <2 <4 <4 <4 <4 <4 <4 <4 <4 <4 <4 <4 <4 <4
Total Molybdenum (Mo) Total Nickel (Ni) Total Phosphorus (P) Total Posphorus (P) Total Potassium (K) Total Selenium (Se) Total Siver (Ag) Total Sodium (Na) Total Strontium (Sr) Total Thallium (TI) Total Tinallium (TI) Total Titanium (TI) Total Titanium (U) Total Vanaium (U) Total Zinc (Zn) Total Vaneium (V)	49/L 49/L 49/L 49/L 49/L 49/L 49/L 49/L	73 25-150 ¹ 1 0.25 0.8 15 (33) ¹ dissolved only 0.026	73 25-150 ² 1 0.25 21000 0.8 15 120 7 0.026	<2 <2 <100 1400 1400 <11 <0.1 32000 38 <0.1 <2 <2 <0.1 <2 <0.1 <2 <0.1 <2 <0.1 <2 <0.1 <2 <0.1 <2 <0.1 <2 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	<2 <2 <2 190 1400 1 400 1 27700 33 <0.1 <2 4 <0.1 <2 <5 n/a n/a	<2 <2 <2 50 2100 <1	<2.0 <2.0 <100 1770 <0.50 <0.10 25000 34.6 <0.10 <2.0 4.2 <0.10 <2.0 <5.0 <0.10	<2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <
Total Molybdenum (Mo) Total Nickel (Ni) Total Phosphorus (P) Total Potassium (K) Total Selenium (Se) Total Silver (Ag) Total Silver (Ag) Total Stiver (Ag) Total Stirontium (Sr) Total Strontium (Sr) Total Thallium (TI) Total Tinallium (TI) Total Titanium (TI) Total Titanium (U) Total Vanadium (V) Total Zinc (Zn) Total Mercury (Hg) Hydrocarbons Benzene Totulene Ethylbenzene	µg/L	73 25-150 ¹ 1 0.25 0.8 15 (33) ¹ dissolved only 0.026 0.37 0.002 0.009	73 25-150 ² 1 1 0.25 21000 0.8 15 120 7 0.026	<2 <2 <100 1400 <11 <0.1 32000 38 <0.1 <2 <2 <0.1 <2 <0.1 <2 <0.1 <4 nd <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	<2 <2 <2 190 1400 1 <0.1 27700 33 <0.1 <2 4 <0.1 <2 <5 n/a n/a n/a n/a n/a	<2 <2 <2 50 2100 <1 <1 <0.1 <1 <0.1 <2 <6 <0.1 <2 <5 n/a <0.1 <2 <5 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	<2.0 <2.0 <2.0 <100 1770 <0.50 <0.10 25000 34.6 <0.10 <2.0 <4.2 <0.10 <2.0 <5.0 <0.013	<2 <2 <2 <2 <4 <2 <4 <4 <4 <4 <4 <4 <4 <4 <4 <4 <4 <4 <4
Total Molybdenum (Mo) Total Nickel (Ni) Total Phosphorus (P) Total Potassium (K) Total Selenium (Se) Total Silver (Ag) Total Solenium (Se) Total Silver (Ag) Total Strontium (Sr) Total Thallium (TI) Total Tinallium (TI) Total Tinallium (TI) Total Uranium (U) Total Vanadium (V) Total Zinc (Zn) Total Mercury (Hg) Hydrocarbons Benzene Toluene Ethylbenzene Xylene (Total) G-C-10 (less BTEX) >-C10-C16 Hydrocarbons	Hg/L Hg/L Hg/L Hg/L Hg/L Hg/L Hg/L Hg/L	73 25-1501 1 0.25 0.8 15 (33)1 dissolved only 0.026 0.037 0.002 0.09	73 25-150 ² 1 0.25 21000 0.8 15 120 7 0.026 2.1 0.77 0.32 0.33	<2 <2 <100 1400 <11 <0.1 32000 38 <0.1 <<2 <0.1 <<2 <0.1 <<2 <0.1 n/a	<2 <2 <2 190 1400 1 <0.1 27700 33 <0.1 <2 4 <0.1 <2 <5 n/a n/a n/a n/a n/a n/a n/a n/a	<2 <2 <2 50 2100 <1	<2.0 <2.0 <100 1770 <0.50 <0.10 25000 34.6 <0.10 <2.0 4.2 <0.10 <2.0 <0.10 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <	<2 <2 <2 <2 <2 <4 <2 <4 <4 <4 <4 <4 <4 <4 <4 <4 <4 <4 <4 <4
Total Molybdenum (Mo) Total Nickel (Ni) Total Phosphorus (P) Total Posphorus (P) Total Posphorus (R) Total Selenium (Se) Total Siver (Ag) Total Sodium (Na) Total Strontium (Sr) Total Trianium (TI) Total Tin (Sn) Total Titanium (TI) Total Titanium (TI) Total Vanadium (V) Total Vanadium (V) Total Zinc (Zn) Total Mercury (Hg) Hydrocarbons Benzene Toluene Ethylbenzene Xylene (Total) C6-C10 (less BTEX) >>C16-C21 Hydrocarbons	µg/L	73 25-150 ¹ 1 0.25 0.8 15 (33) ¹ dissolved only 0.026 0.37 0.002 0.009	73 25-150 ² 1 0.25 21000 0.8 15 120 7 0.026 2.1 0.77 0.32 0.33	<2 <2 <100	<2 <2 <2 190 1400 1 <0.1 27700 33 <0.1 <2 4 <0.1 <2 <1 <1 <1 <1 <1 <1 <1 <1	<2 <2 <2 50 2100 <1 <1 <0.1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	<2.0 <2.0 <2.0 <100 1770 <0.50 <0.10 25000 34.6 <0.10 <2.0 <4.2 <0.10 <2.0 <5.0 <0.013 n/a n/a n/a n/a n/a n/a n/a	<2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <
Total Molybdenum (Mo) Total Nickel (NI) Total Polsphorus (P) Total Potassium (K) Total Selenium (Se) Total Selenium (Se) Total Solum (Na) Total Strontium (Sr) Total Thallium (Ti) Total Thallium (Ti) Total Titanium (Ti) Total Titanium (U) Total Zinc (Zn) Total Vandum (Ve)	µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L	73 25-150 ¹ 1 0.25 0.8 15 (33) ¹ dissolved only 0.026 0.37 0.002 0.09	73 25-150 ² 1 0.25 21000 0.8 15 120 7 0.026 2.1 0.77 0.32 0.33	<2 <2 <100 1400 <11 <20 <10 <10 <10 <10 <10 <10 <10 <10 <10 <1	<2 <2 <2 <2 <2 <2 <2 <4 <2 <4 <4 <4 <4 <4 <4 <4 <4 <4 <4 <4 <4 <4	<2 <2 <2 50 2100 <1 <0.1 31300 44 <0.1 <2 6 <0.1 <2 <5 n/a n/a n/a n/a n/a n/a n/a n/a	<2.0 <2.0 <2.0 <100 1770 <0.50 <0.10 25000 34.6 <0.10 <2.0 4.2 <0.10 <2.0 <5.0 <0.013 n/a n/a n/a n/a n/a n/a n/a n/a n/a	<2 <2 <2 <2 <2 <4 <2 <4 <4 <4 <4 <4 <4 <4 <4 <4 <4 <4 <4 <4
Total Molybdenum (Mo) Total Nickel (Ni) Total Phosphorus (P) Total Potassium (K) Total Selenium (Se) Total Selenium (Se) Total Siver (Ag) Total Strontium (Sr) Total Thallium (Ti) Total Thallium (Ti) Total Tranlium (U) Total Tranlium (U) Total Zinc (Zn) Total Mercury (Hg) Hydrocarbons Benzene Toluene Ethylbenzene Xylene (Total) C6-C10 (less BTEX) >C10-C16 Hydrocarbons >C16-C21 Hydrocarbons Modified TPH (Tier 1)	µg/L	73 25-150 ¹ 1 0.25 0.8 15 (33) ¹ dissolved only 0.026 0.37 0.002 0.09	73 25-150 ² 1 0.25 21000 0.8 15 120 7 0.026 2.1 0.77 0.32 0.33	<2 <2 <100 1400 <11 <0.1 32000 38 <0.1 <2 <2 <0.1 n/a	<2 <2 <2 190 1400 1 <0.1 27700 33 <0.1 <2 4 <0.1 <2 <5 n/a n	<2 <2 <2 50 2100 <1 <0.1 31300 44 <0.1 <2 6 <0.1 <2 5 n/a n/a n/a n/a n/a n/a n/a n/a	<2.0 <2.0 <2.0 <100 1770 <0.50 <0.10 25000 34.6 <0.10 25000 4.2 <0.10 <2.0 <4.2 <0.10 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.	<2 <2 <2 <2 <4 <2 <4 <4 <4 <4 <4 <4 <4 <4 <4 <4 <4 <4 <4
Total Molybdenum (Mo) Total Nickel (NI) Total Polsphorus (P) Total Potassium (K) Total Selenium (Se) Total Selenium (Se) Total Solum (Na) Total Strontium (Sr) Total Thallium (Ti) Total Thallium (Ti) Total Titanium (Ti) Total Titanium (U) Total Zinc (Zn) Total Vandum (Ve)	µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L	73 25-150 ¹ 1 0.25 0.8 15 (33) ¹ dissolved only 0.026 0.37 0.002 0.09	73 25-150 ² 1 0.25 21000 0.8 15 120 7 0.026 2.1 0.77 0.32 0.33	<2 <2 <100 1400 <11 <20 <10 <10 <10 <10 <10 <10 <10 <10 <10 <1	<2 <2 <2 <2 <2 <2 <2 <4 <2 <4 <4 <4 <4 <4 <4 <4 <4 <4 <4 <4 <4 <4	<2 <2 <2 50 2100 <1 <0.1 31300 44 <0.1 <2 6 <0.1 <2 <5 n/a n/a n/a n/a n/a n/a n/a n/a	<2.0 <2.0 <2.0 <100 1770 <0.50 <0.10 25000 34.6 <0.10 <2.0 4.2 <0.10 <2.0 <5.0 <0.013 n/a n/a n/a n/a n/a n/a n/a n/a n/a	<2 <2 <2 <2 <2 <4 <2 <4 <4 <4 <4 <4 <4 <4 <4 <4 <4 <4 <4 <4

Table 1:	Nine Mile	e River Surface	· Water Samplii	na Results

	Results	FBWHT SW3						
Comments		Compariso	n Criteria		Fra	aser's Lake Out	tlet	
Parameters	Units	CCME FAL ¹	NS EQS ²	6-Aug-2014	3-Jun-2015	22-Nov-2016	17-Nov-2020	22-Aug-2023
Field Measured Parameters								
Field TDS Field pH	mg/L pH units	65.00	6.5 - 9.0	45 7.41		50.7 5.79		26
Specific Conductance	umho/cm	6.5 - 9.0	0.5 - 9.0	7.41		77.6		51
Field Temperature	°C			20.8		8.3		21.8
Colour	TCU					52.8		
Dissolved Oxygen % Saturation	%			56.9		101		
Dissolved Oxygen	mg/L	Min 6.5 or 9.5 ¹		5.03		11.5		
General Parameters pH (lab measured)	pH	6.5 - 9.0	6.5 - 9.0	6.45	5.89	6.2	6.12	6.16
Reactive Silica (SiO ₂)	mg/L			1.3	2.2	2.3	2.8	14.7
Chloride (CI)	mg/L	120 (640) ¹	120	16	12	15	14	8
Fluoride (F)	mg/L	0.12	0.12	n/a	0.2	<0.12	n/a	<0.12
Sulphate (SO ₄)	mg/L		128	2.7	4	4	3	2
Alkalinity (Total as CaCO ₃)	mg/L			<1	<5	<5	<5	5
Colour Turbidity	TCU NTU	narrative		43 0.81	53 4.8	53 2.1	86 0.9	17 0.9
Conductivity	μS/cm			67	59	78	67	55
Nitrite + Nitrate	mg/L			< 0.05	0.11	< 0.05	0.06	< 0.05
Nitrate (N)	mg/L	2.9 (120) ¹	2.9	<0.05	0.11	< 0.05	0.06	< 0.05
Nitrite (N)	mg/L	0.06	0.06	<0.01	<0.05	< 0.05	<0.01	< 0.05
Ammonia (as N)	mg/L	varies 1	varies 2	n/a	<0.03	0.04	0.06	< 0.03
Total Organic Carbon (C)	mg/L			5.6 <0.01	6.4 <0.01	9.7 <0.01	9.6 <0.01	15.9
Orthophosphate (P) Total Suspended Solids (TSS)	mg/L mg/L	narrative		1.4	<0.01 n/a	<0.01	<0.01 n/a	0.98 n/a
Hardness (CaCO ₃)	mg/L			7.8	5.9	9.6	9	8.5
Lab Calculated Parameters					- 1-			
Anion Sum	me/L			0.51	0.43	0.51	0.48	0.37
Cation Sum	me/L			ND 0.40	0.48	0.74	0.62	0.58
Ion Balance (% Difference)	% mg/l			6.42 <1	5.1 <5	18.5 <5	12.7 <1	22.8 5
Bicarb. Alkalinity (calc. as CaCO ₃) Carb. Alkalinity (calc. as CaCO ₃)	mg/L mg/L			<1	<10	<10	<1	<10
Hydroxide	mg/L			n/a	<5	<5	n/a	<5
Calculated TDS	mg/L			33	27	35	34	25
Langelier Index (@ 20C)	-			nc	-4.72	-4.22	NC	-4.29
Langelier Index (@ 4C)	-			nc	-5.04	-4.54	NC	-4.61
Saturation pH (@ 20C)	-			nc	10.6	10.4	NC	10.4
Saturation pH (@ 4C)	-			nc	10.9	10.7	NC	10.8
Bacteriogical Parameters Fecal Coliforms	CFU/100mL			6	25	1	n/a	n/a
Total Coliforms	CFU/100mL			>250	310	6	n/a	n/a
E. Coli	CFU/100mL			6	10	1	n/a	n/a
Total Metals								
Total Aluminum (AI)	μg/L	5 - 100 ¹	5 - 100 ²	150	225	270	253	331
Total Anamia (As)	μg/L		9	<1	<2	<2	<1.0	<2
Total Arsenic (As)		-	E	-1				-0
	μg/L	5	5	<1 10	<2	<2	<1.0	<2 10
Total Barium (Ba)	μg/L		1000	10	<2 10	<2 14	<1.0 12.7	10
	μg/L μg/L				<2	<2	<1.0	
Total Barium (Ba) Total Beryllium (Be)	μg/L		1000 0.15	10 <1	<2 10 <2	<2 14 <2	<1.0 12.7 <1.0	10 <2
Total Barium (Ba) Total Beryllium (Be) Total Bismuth (Bi)	μg/L μg/L μg/L		1000 0.15 	10 <1 <2	<2 10 <2 <2	<2 14 <2 <2	<1.0 12.7 <1.0 <2.0	10 <2 <2
Total Barium (Ba) Total Beryllium (Be) Total Bismuth (Bi) Total Boron (B) Total Cadmium (Cd) Total Calcium (Ca)	µg/L µg/L µg/L µg/L µg/L	1500 (29,000) ¹ equation ¹	1000 0.15 1500 0.09	10 <1 <2 <50 0.014 2100	<2 10 <2 <2 <2 9 0.025 1700	<2 14 <2 <2 <2 8 0.024 2700	<1.0 12.7 <1.0 <2.0 <50 0.022 2410	10 <2 <2 <5 <0.09 2400
Total Barium (Ba) Total Beryllium (Be) Total Bismuth (Bi) Total Boron (B) Total Cadmium (Cd) Total Calcium (Ca) Total Chromium (Cr)	µg/L µg/L µg/L µg/L µg/L µg/L	 1500 (29,000) ¹ equation ¹ 8.91	1000 0.15 1500 0.09 8.9	10 <1 <2 <50 0.014 2100 <1	<2 10 <2 <2 <2 9 0.025 1700	<2 14 <2 <2 <2 8 0.024 2700 <1	<1.0 12.7 <1.0 <2.0 <50 0.022 2410 <1.0	10 <2 <2 5 <0.09 2400 <2
Total Barium (Ba) Total Beryllium (Be) Total Bismuth (Bi) Total Boron (B) Total Cadmium (Cd) Total Calcium (Ca) Total Chromium (Cr) Total Cobalt (Co)	µg/L µg/L µg/L µg/L µg/L µg/L µg/L	1500 (29,000) ¹ equation ¹ 8.91	1000 0.15 1500 0.09 8.9	10 <1 <2 <50 0.014 2100 <1 <0.4	<2 10 <2 <2 <2 9 0.025 1700 <1 <1	<2 14 <2 <2 <2 8 0.024 2700 <1 <1	<1.0 12.7 <1.0 <2.0 <50 0.022 2410 <1.0 <0.40	10 <2 <2 5 <0.09 2400 <2 <1
Total Barium (Ba) Total Beryllium (Be) Total Bismuth (Bi) Total Cadmium (Cd) Total Calcium (Ca) Total Chromium (Cr) Total Copper (Cu)	µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L	 1500 (29,000) ¹ equation ¹ 8.91 2-4 ¹	1000 0.15 1500 0.09 8.9 1 2-4 ²	10 <1 <2 <50 0.014 2100 <1 <0.4 <2	<2 10 <2 <2 9 0.025 1700 <1 <1 <1	<2 14 <2 <2 <2 8 0.024 2700 <1 <1 <1	<1.0 12.7 <1.0 <2.0 <50 0.022 2410 <1.0 <0.40 0.63	10 <2 <2 5 <0.09 2400 <2 <1 <2
Total Barium (Ba) Total Beryllium (Be) Total Bismuth (Bi) Total Boron (B) Total Cadmium (Cd) Total Calcium (Ca) Total Chromium (Cr) Total Cobalt (Co) Total Copper (Cu) Total Iron (Fe)	halr halr halr halr halr halr halr halr	1500 (29,000) ¹ equation ¹ 8.91 2.4 ¹ 300	1000 0.15 1500 0.09 8.9 1 2-4 ² 300	10 <1 <2 <50 0.014 2100 <1 <0.4 <2 89	<2 10 <2 <2 <2 9 0.025 1700 <1 <1	<2 14 <2 <2 <2 8 0.024 2700 <1 <1	<1.0 12.7 <1.0 <2.0 <50 0.022 2410 <1.0 <0.40	10 <2 <2 5 <0.09 2400 <2 <1
Total Barium (Ba) Total Beryllium (Be) Total Bismuth (Bi) Total Cadmium (Cd) Total Calcium (Ca) Total Chromium (Cr) Total Copper (Cu)	µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L	 1500 (29,000) ¹ equation ¹ 8.91 2-4 ¹ 300 1-7 ¹	1000 0.15 1500 0.09 8.9 1 2-4 ²	10 <1 <2 <50 0.014 2100 <1 <0.4 <2	<2 10 <2 <2 9 0.025 1700 <1 <1 <1	<2 14 <2 <2 8 0.024 2700 <1 <1 <1 <1	<1.0 12.7 <1.0 <2.0 <50 0.022 2410 <1.0 <0.40 0.63 327	10 <2 <2 5 <0.09 2400 <2 <1 <2 393
Total Barium (Ba) Total Beryllium (Be) Total Bismuth (Bi) Total Boron (B) Total Cadmium (Cd) Total Calcium (Ca) Total Chromium (Cr) Total Copper (Cu) Total Copper (Cu) Total Lead (Pb) Total Magnesium (Mg) Total Manganese (Mn)	Hg/L Hg/L Hg/L Hg/L Hg/L Hg/L Hg/L Hg/L	1500 (29,000) ¹ equation ¹ 8.91 2.4 ¹ 300 1-7 ¹ varies ¹	1000 0.15 1500 0.09 8.9 1 2-4 ² 300 1-7 ² 430	10 <1 <2 <50 0.014 2100 <1 <0.4 <2 89 <0.5 6000 10	<2 10 <2 <2 9 0.025 1700 <1 <1 <1 <1 41 <41 <41 <41 <40.5 400 25	<2 14 <2 <2 8 0.024 2700 <1 <1 <1 <1 403 <0.5 700 54	<1.0 12.7 <1.0 <2.0 <50 0.022 2410 <0.40 0.63 327 <0.50 680 42.6	10 <2 <2 5 <0.09 2400 <2 <1 <2 393 <0.5 600 52
Total Barium (Ba) Total Beryllium (Be) Total Bismuth (Bi) Total Boron (B) Total Cadmium (Cd) Total Calcium (Ca) Total Chromium (Cr) Total Cobalt (Co) Total Copper (Cu) Total Iron (Fe) Total Lead (Pb) Total Magnesium (Mg) Total Manganese (Mn) Total Molybdenum (Mo)	Hg/L Hg/L Hg/L Hg/L Hg/L Hg/L Hg/L Hg/L	 1500 (29,000) ¹ equation ¹ 8.91 2.4 ¹ 300 1-7 ¹ varies ¹ 73	1000 0.15 1500 0.09 8.9 1 2-4 ² 300 1-7 ² 430 73	10 <1 <2 <50 0.014 2100 <1 <0.4 <2 89 <0.5 600 10 <2	<2 10 <2 <2 <2 9 0.025 1700 <1 <1 <1 41 <0.5 400 25 <2	<2 14 42 <2 8 0.024 2700 <1 <1 403 <0.5 700 54 <2	<1.0 12.7 <1.0 <2.0 <50 0.022 2410 <1.0 <0.40 0.63 327 <0.50 680 42.6 <2.0	10 <2 <2 5 <0.09 2400 <2 <1 <2 393 <0.5 600 52 <2
Total Barium (Ba) Total Beryllium (Be) Total Bismuth (Bi) Total Bismuth (Bi) Total Cadmium (Cd) Total Calcium (Ca) Total Calcium (Cr) Total Cobalt (Co) Total Copper (Cu) Total Into (Fe) Total Lead (Pb) Total Manganese (Mn) Total Molybdenum (Mo) Total Nickel (Ni)	Hg/L Hg/L Hg/L Hg/L Hg/L Hg/L Hg/L Hg/L	1500 (29,000) ¹ equation ¹ 8,91 2-4 ¹ 300 1.7 ¹ varies ¹ 73 25-150 ¹	1000 0.15 1500 0.09 8.9 1 2.4 ² 300 1.7 ² 430 73 25-150 ²	10 <1 <2 <50 0.014 2100 <1 <0.4 <2 89 <0.5 600 10 <2 <2	<2 10 <2 <2 <2 9 0.025 1700 <1 <1 <1 <1 <4 <0.5 400 25 <2 <2	<2 14 4 2 2 8 0.024 2700 <1 <1 <1 <1 <1 <1 <1 5 5 700 5 4 5 700 5 5 700 700	<1.0 12.7 12.7 <1.0 <2.0 <50 0.022 2410 <1.0 <0.40 0.63 327 <0.50 680 42.6 <2.0 <2.0	10 <2 <2 5 <0.09 2400 <2 <1 <2 393 <0.5 600 52 <2 <2
Total Barium (Ba) Total Beryllium (Be) Total Bismuth (Bi) Total Boron (B) Total Cadmium (Cd) Total Calcium (Ca) Total Chromium (Cr) Total Choper (Cu) Total Copper (Cu) Total Inon (Fe) Total Lead (Pb) Total Magnesium (Mg) Total Manganese (Mn) Total Molybdenum (Mo) Total Phosphorus (P)	Halr Halr Halr Halr Halr Halr Halr Halr	1500 (29,000) ¹ equation ¹ 8.91 2.4 ¹ 300 17 ¹ varies ¹ 73 25-150 ¹	1000 0.15 1500 0.09 8.9 1 2.4 ² 300 1.7 ² 430 73 25-150 ²	10 <1 <2 <50 0.014 2100 <1 <0.4 <2 89 <0.5 600 10 <2 <2 <100	<2 10 <2 <2 9 0.025 1700 <1 <1 <1 41 146 <0.5 400 25 <2 180	<2 14 <2 <2 8 0.024 2700 <1 <1 <1 <1 <1 403 <0.5 700 54 <2 <2	<1.0 12.7 <1.0 <2.0 <50 0.022 2410 <1.0 <0.40 0.63 327 <0.50 680 42.6 <2.0 <100	10 <2 <2 5 <0.09 2400 <2 <1 <2 393 <0.5 600 52 <2 <2 <1 <0.5
Total Barium (Ba) Total Beryllium (Be) Total Bismuth (Bi) Total Bismuth (Bi) Total Cadmium (Cd) Total Calcium (Ca) Total Choalt (Co) Total Copper (Cu) Total Copper (Cu) Total Inon (Fe) Total Lead (Pb) Total Magnesium (Mg) Total Manganese (Mn) Total Molybdenum (Mo) Total Nickel (Ni) Total Potassium (K)	#g/L #g/L #g/L #g/L #g/L #g/L #g/L #g/L	1500 (29,000) ¹ equation ¹ 8.91 2.4 ¹ 300 1.7 ¹ varies ¹ 73 25-150 ¹	1000 0.15 1500 0.09 8.9 1 2-4² 300 1-7² 430 73 25-150²	10 <1 <2 <50 0.014 2100 <1 <0.4 <2 89 <0.5 6000 10 <2 <1 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7 <0.7	<2 10 0 2 <2 9 0.025 1700 <1 <1 <1 146 <0.5 400 25 <2 <2 <2	<2 14 4 2 2 8 0.024 2700 <1 <1 <1 <1 <1 <1 <1 5 5 700 5 4 5 700 5 5 700 700	<1.0 12.7 <1.0 <2.0 <50 0.022 2410 <1.0 <0.40 0.63 327 <0.50 680 42.6 <2.0 <2.0 <100 638	10 <2 <2 <5 <0.09 2400 <2 <1 <2 393 <0.5 6000 52 <2 <2 <2 900
Total Barium (Ba) Total Beryllium (Be) Total Bismuth (Bi) Total Boron (B) Total Cadmium (Cd) Total Calcium (Ca) Total Chromium (Cr) Total Choper (Cu) Total Copper (Cu) Total Inon (Fe) Total Lead (Pb) Total Magnesium (Mg) Total Manganese (Mn) Total Molybdenum (Mo) Total Phosphorus (P)	Hg/L Hg/L Hg/L Hg/L Hg/L Hg/L Hg/L Hg/L	1500 (29,000) ¹ equation ¹ 8.91 2.4 ¹ 300 17 ¹ varies ¹ 73 25-150 ¹	1000 0.15 1500 0.09 8.9 1 2.4 ² 300 1.7 ² 430 73 25-150 ²	10 <1 <2 <50 0.014 2100 <1 <0.4 <2 89 <0.5 600 10 <2 <2 <100	<2 10 <2 <2 9 0.025 1700 <1 <1 <1 41 146 <0.5 400 25 <2 180	<2 14 42 22 8 0.024 2700 <1 <1 <1 403 <0.5 700 54 <2 <2 40 800	<1.0 12.7 <1.0 <2.0 <50 0.022 2410 <1.0 <0.40 0.63 327 <0.50 680 42.6 <2.0 <100	10 <2 <2 <5 <0.09 2400 <2 <1 <1 <2 393 <0.5 600 52 <2 <1 <2 0.72
Total Barium (Ba) Total Beryllium (Be) Total Bismuth (Bi) Total Bismuth (Bi) Total Cadmium (Cd) Total Calcium (Ca) Total Charlium (Cr) Total Choper (Cu) Total Copper (Cu) Total Copper (Cu) Total Load (Pb) Total Magnesium (Mg) Total Manganese (Mn) Total Molybdenum (Mo) Total Phosphorus (P) Total Potassium (K) Total Selenium (Se) Total Selenium (Se) Total Silver (Ag) Total Sodium (Na)	#g/L #g/L #g/L #g/L #g/L #g/L #g/L #g/L	1500 (29,000) ¹ equation ¹ 8,91 2-4 ¹ 300 1-7 ¹ varies ¹ 73 25-150 ¹ 1	1000 0.15 1500 0.09 8.9 1 2-4² 300 1-7² 430 73 25-150² 1 0.25	10 <1 <2 <50 0.014 2100 <1 <0.4 <2 89 <0.5 6000 10 <2 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100	<2 10 42 42 9 0.025 1700 41 41 41 46 40.5 400 25 42 42 42 41 80 500 41 7200	<2 14 4 2 8 0.024 2700 <1 <1 <1 403 <0.5 700 54 <2 <2 <40 800 <1 10900	<1.0 12.7 <1.0 <2.0 <50 0.022 2410 <1.0 <0.40 0.63 327 <0.50 680 42.6 <2.0 <100 638 <0.50 <0.50 638 <0.50 <0.50 9380	10 <2 <2 <5 <0.09 2400 <2 <1 <2 393 <0.5 600 52 <2 0.72 900 <1 7800
Total Barium (Ba) Total Beryllium (Be) Total Bismuth (Bi) Total Boron (B) Total Cadmium (Cd) Total Cadmium (Cd) Total Calcium (Ca) Total Cobalt (Co) Total Cobalt (Co) Total Copper (Cu) Total Index (Pb) Total Magnesium (Mg) Total Magnesium (Mg) Total Monganese (Mn) Total Molybdenum (Mo) Total Nickel (Ni) Total Phosphorus (P) Total Selenium (Se) Total Selenium (Se) Total Silver (Ag) Total Sodium (Na) Total Sodium (Na)	Hg/L Hg/L Hg/L Hg/L Hg/L Hg/L Hg/L Hg/L	1500 (29,000) ¹ equation ¹ 8,91 2-4 ¹ 300 1-7 ¹ varies ¹ 73 25-150 ¹ 1 0.25	1000 0.15 1500 0.09 8.9 1 2-4² 300 1-7² 430 73 25-150² 1 0.25 21000	10 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	<2 10 <2 2 9 0.025 1700 <1 <1 41 <41 <40.5 400 25 <2 <2 180 500 <1 7200 8	<2 14 4 2 8 0.024 2700 <1 <1 403 <0.5 700 54 <2 <2 40 800 <1 0.1 10900 13	<1.0 12.7 <1.0 <2.0 <50 0.022 2410 <1.0 <0.40 0.63 327 <0.50 688 42.6 <2.0 <100 638 <0.50 <0.10 9380 12.3	10 <2 <2 5 <0.09 2400 <2 <1 <2 <1 <2 393 <0.5 600 52 <2 <1 <0.72 900 <1 <0.1 7800 12
Total Barium (Ba) Total Beryllium (Be) Total Bismuth (Bi) Total Bismuth (Bi) Total Cadmium (Cd) Total Cadmium (Cd) Total Calcium (Ca) Total Chromium (Cr) Total Copper (Cu) Total Copper (Cu) Total In (Fe) Total In (Fe) Total Lead (Pb) Total Manganese (Mn) Total Manganese (Mn) Total Mickel (Ni) Total Phosphorus (P) Total Selenium (Se) Total Selenium (Se) Total Sodium (Na) Total Sotal Sodium (Na) Total Total Sodium (Na) Total Total Total Sodium (Na) Total Total Total Sodium (Na) Total	#g/L #g/L #g/L #g/L #g/L #g/L #g/L #g/L	1500 (29,000) ¹ equation ¹ 8,91 2-4 ¹ 300 1.7 ¹ varies ¹ 73 25-150 ¹ 1 0.25 0.8	1000 0.15 1500 0.09 8.9 1 2.4² 300 1.7² 430 73 25-150² 1 0.25 21000 0.8	10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <	<2 10 2 2 9 0.025 1700 <1 <1 <1 <1 <41 <41 <41 <41 <41 <41 <40.5 400 25 <42 <42 180 500 <41 <0.1 7200 8 <<0.1	<2 14 4 2 2 8 0.024 2700 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	<1.0 12.7 12.7 <1.0 <2.0 <50 0.022 2410 <1.0 <0.40 0.63 327 <0.50 680 42.6 <2.0 <100 <100 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40 <0.40	10 <2 5 <0.09 2400 <42 <1 <41 <2 393 <0.5 600 52 <2 <2 0.72 900 <1 <0.1 7800 12 <0.1
Total Barium (Ba) Total Beryllium (Be) Total Bismuth (Bi) Total Bismuth (Bi) Total Cadmium (Cd) Total Cadmium (Cd) Total Calcium (Ca) Total Cobalt (Co) Total Copper (Cu) Total Total Into (Fe) Total Lead (Pb) Total Manganese (Mn) Total Manganese (Mn) Total Mickel (Ni) Total Potassium (K) Total Potassium (K) Total Selenium (Se) Total Selenium (Se) Total Sitver (Ag) Total Sitver (Ag) Total Strontium (Sr) Total Total Total Total Total Total Sitver (Ag) Total Strontium (Sr) Total Total Strontium (Sr) Total Tot	Hg/L Hg/L Hg/L Hg/L Hg/L Hg/L Hg/L Hg/L	1500 (29,000) ¹ equation ¹ 8,91 2-4 ¹ 300 1-7 ¹ varies ¹ 73 25-150 ¹ 1 0.25	1000 0.15 1500 0.09 8.9 1 2.4² 300 1.7² 430 73 25-150² 1 0.25 21000 0.8	10 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	<2 10 <2 <2 9 0.025 1700 <1 <1 <1 41 46 <0.5 400 25 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2	<2 14 4 2 8 0.024 2700 <1 <1 <1 <1 403 <0.5 700 54 <2 <2 40 800 <1 10900 13 <0.1 <2	<1.0 12.7 <1.0 <2.0 <50 0.022 2410 <1.0 <0.40 0.63 327 <0.50 680 42.6 <2.0 <100 638 <0.50 638 <0.50 638 <0.50 638 <0.50 <100 638 <0.50 <0.50 638 <0.50 <0.50 638 <0.50 <0.50 638 <0.50 638 <0.50 638 <0.50 638 <0.50 638 <0.50 638 <0.50 638 <0.50 638 <0.50 638 <0.50 638 <0.50 638 638 60.50 6	10
Total Barium (Ba) Total Beryllium (Be) Total Bervllium (Be) Total Boron (B) Total Cadmium (Cd) Total Cadmium (Cd) Total Calcium (Ca) Total Chromium (Cr) Total Cobalt (Co) Total Copper (Cu) Total In (Fe) Total Lead (Pb) Total Magnesium (Mg) Total Magnesium (Mo) Total Molybdenum (Mo) Total Mickel (Ni) Total Potassium (K) Total Potassium (Se) Total Silver (Ag) Total Silver (Ag) Total Strontium (Sr) Total Strontium (Sr) Total Strontium (Sr) Total Strontium (Ti) Total Total Total (Tin (Sn) Total Total Total (Tin (Sn) Total Total Total (Tin (Sn)	Hall Hall Hall Hall Hall Hall Hall Hall	1500 (29,000) ¹ equation ¹ 8,91 2.4 ¹ 300 1-7 ¹ varies ¹ 73 25-150 ¹ 1 0.25 0.8	1000 0.15 1500 0.09 8.9 1 2-4² 300 1-7² 430 73 25-150² 1 0.25 21000 0.8	10 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	<2 10 2 2 9 0.025 1700 <1 146 <0.5 400 25 <2 <2 <1 180 500 <1 7200 8 <0.1 7200 8 <0.1 7200 8 <0.1 7200 8 <0.1 7200 7200 7200 7200 7200 7200 7200 720	<2 14 402 8 0.024 2700 <1 <1 403 <0.5 700 54 <2 <2 40 800 <1 <0.1 10900 13 <0.1 <2 <2 <2 <2 <4 <4 <4 <4 <4 <4 <4 <4 <4 <4 <4 <4 <4	<1.0 12.7 <1.0 <2.0 <50 0.022 2410 <1.0 <0.40 <0.40 0.63 327 <0.50 680 42.6 <2.0 <2.0 <100 638 <0.50 <0.10 9380 12.3 <0.10 <2.0 <2.0 <2.0	10 <2 <2 <5 <0.09 2400 <2 <1 <1 <2 393 <0.5 600 52 <2 <1 <0.72 900 <1 <0.1 7800 12 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.1 <3 <0.
Total Barium (Ba) Total Beryllium (Be) Total Bismuth (Bi) Total Bismuth (Bi) Total Cadmium (Cd) Total Cadmium (Cd) Total Calcium (Ca) Total Cobalt (Co) Total Copper (Cu) Total In (Copper (Cu) Total Magnaesium (Mg) Total Magnaesium (Mg) Total Magnaesium (Mo) Total Nickel (Ni) Total Phosphorus (P) Total Potassium (K) Total Selenium (Se) Total Silver (Ag) Total Sodium (Na) Total Strontium (Sr) Total Thallium (Ti) Total Thallium (Ti) Total Titanium (Ti) Total Titanium (Ti) Total Titanium (Ti)	Hg/L Hg/L Hg/L Hg/L Hg/L Hg/L Hg/L Hg/L	1500 (29,000) ¹ equation ¹ 8,91 2-4 ¹ 300 1.7 ¹ varies ¹ 73 25-150 ¹ 1 0.25 0.8	1000 0.15 1500 0.09 8.9 1 2.4² 300 1.7² 430 73 25-150² 1 0.25 21000 0.8 15	10 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	<2 10 <2 <2 9 0.025 1700 <1 <1 <1 41 46 <0.5 400 25 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2	<2 14 4 2 8 0.024 2700 <1 <1 <1 <1 403 <0.5 700 54 <2 <2 40 800 <1 10900 13 <0.1 <2	<1.0 12.7 <1.0 <2.0 <50 0.022 2410 <1.0 <0.40 0.63 327 <0.50 680 42.6 <2.0 <100 638 <0.50 638 <0.50 638 <0.50 638 <0.50 <100 638 <0.50 <0.50 638 <0.50 <0.50 638 <0.50 <0.50 638 <0.50 638 <0.50 638 <0.50 638 <0.50 638 <0.50 638 <0.50 638 <0.50 638 <0.50 638 <0.50 638 <0.50 638 638 60.50 6	10
Total Barium (Ba) Total Beryllium (Be) Total Bismuth (Bi) Total Bismuth (Bi) Total Cadmium (Cd) Total Cadmium (Cd) Total Cadmium (Cr) Total Cobalt (Co) Total Coper (Cu) Total Copper (Cu) Total In (Fe) Total Lead (Pb) Total Magnesium (Mg) Total Magnesium (Mo) Total Molybdenum (Mo) Total Mickel (Ni) Total Potassium (F) Total Potassium (Se) Total Silver (Ag) Total Salver (Ag) Total Strontium (Sr) Total Strontium (Sr) Total Strontium (Ti) Total Total Trainium (Ti) Total Trainium (U) Total Titalium (Ti) Total Trainium (U) Total Zinc (Zn)	Hall Hall Hall Hall Hall Hall Hall Hall	1500 (29,000) ¹ equation ¹ 8,91 2-4 ¹ 300 1-7 ¹ varies ¹ 73 25-150 ¹ 1 0.25 0.8 15 (33) ¹	1000 0.15 1500 0.09 8.9 1 2-4² 300 1-7² 430 73 25-150² 1 0.25 21000 0.8	10 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	<2 10 <2 2 9 0.025 1700 <1 <1 <1 41 <1 40.5 400 25 <2 180 500 <1 <0.1 7200 8 <0.1 <2 0.1	<2 14 4 2 8 0.024 2700 <1 <1 403 <0.5 700 54 <2 <2 40 800 <1 <0.1 10900 13 <0.1 <2 0.2	<1.0 12.7 12.7 12.0 12.7 1.0 10.0 12.0 10.0 10.0 10.0 10.0 10.0	10
Total Barium (Ba) Total Beryllium (Be) Total Bismuth (Bi) Total Bismuth (Bi) Total Cadmium (Cd) Total Cadmium (Cd) Total Calcium (Ca) Total Cobalt (Co) Total Copper (Cu) Total Copper (Cu) Total Iron (Fe) Total Lead (Pb) Total Magnesium (Mg) Total Magnesium (Mg) Total Mickel (Ni) Total Prosphorus (P) Total Posphorus (P) Total Selenium (Se) Total Silver (Ag) Total Sodium (Na) Total Sorotium (Sr) Total Strain (Sr) Total Thallium (Ti) Total Tinalium (Ti) Total Tinalium (Ti) Total Tinalium (Ti) Total Tinalium (U) Total Vanadium (V) Total Zenoun (Hg)	Hall Hall Hall Hall Hall Hall Hall Hall		1000 0.15 1500 0.09 8.9 1 2.4² 300 1.7² 430 73 25-150² 1 0.25 21000 0.8 15 120	10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <	<2 10 <2 <2 9 0.025 1700 <1 <1 <1 41 46 <0.5 400 25 <2 180 500 <1 7200 8 <0.1 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2	<pre><2 14 4 2 2 8 0.024 2700 <1 <1 <1 <1 403 <0.5 700 54 <2 <40 800 <1 10900 13 <0.1 <22 <2 <2</pre>	<1.0 12.7 <1.0 12.7 <1.0 <2.0 <50 0.022 2410 <1.0 <0.40 0.63 327 <0.50 680 42.6 <2.0 <2.0 <100 638 <0.50 <100 638 <0.50 <100 638 <0.50 <100 638 <0.50 <100 638 <0.50 <100 638 <0.50 <100 638 <0.50 <100 638 <0.50 <100 638 <0.50 638 <0.50 638 <0.50 638 <0.50 638 <0.50 638 638 60.50 60.	10
Total Barium (Ba) Total Beryllium (Be) Total Bismuth (Bi) Total Bismuth (Bi) Total Cadmium (Cd) Total Cadmium (Cd) Total Calcium (Ca) Total Cobalt (Co) Total Copper (Cu) Total Copper (Cu) Total In (Co) Total Copper (Cu) Total In (Co) Total Manganese (Mn) Total Manganese (Mn) Total Molybdenum (Mo) Total Mickel (Ni) Total Phosphorus (P) Total Selenium (Se) Total Selenium (Se) Total Sodium (Na) Total Sodium (Na) Total Tin (Sn) Total Tin (Sn) Total Titanium (Ti) Total Titanium (U) Total Vanadium (V) Total Vanadium (V) Total Vanadium (V) Total Total Tinc (Zn) Total Mydrocarbons	#9/L #9/L #9/L #9/L #9/L #9/L #9/L #9/L	1500 (29,000) ¹ equation ¹ 8.91 2.4 ¹ 300 1.7 ¹ varies ¹ 73 25-150 ¹ 1 0.25 15 (33) ¹ dissolved only 0.026	1000 0.15 1500 0.09 8.9 1 2.4² 300 1.7² 430 73 25-150² 1 0.25 21000 0.8 15 120 7 0.026	10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <	<2 10 <2 10 <2 2 9 0.025 1700 <1 <1 <1 146 <0.5 400 25 <2 180 500 <1 <1 <0.1 7200 8 <0.1 <2 <2 <1 <0.1 7200 6 n/a	<2 14 <2 8 0.024 2700 <1 <1 <1 <1 403 <0.5 54 <2 40 800 <1 <0.1 10900 13 <0.1 <2 <2 <2 <1 <0.1 10900 13 0.1 <2 <2 <2 <1 <0.1 10900 13 13 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <10.1 <	<1.0 12.7 12.7 <1.0 <2.0 <50 0.022 2410 <1.0 <0.40 0.63 327 <0.50 680 42.6 <2.0 <1.0 <1.0 <0.40 12.3 <0.10 <0.10 9380 12.3 <0.10 <2.0 <1.0 <1.0 <0.10 <2.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1	10
Total Barium (Ba) Total Beryllium (Be) Total Bismuth (Bi) Total Boron (B) Total Cadmium (Cd) Total Cadmium (Cd) Total Chromium (Cr) Total Cobalt (Co) Total Cobalt (Co) Total Copper (Cu) Total Iron (Fe) Total Lead (Pb) Total Magnesium (Mg) Total Magnesium (Mo) Total Mickel (Ni) Total Molybdenum (Mo) Total Potassium (K) Total Potassium (K) Total Potassium (Se) Total Sodium (Na) Total Solonium (Se) Total Sodium (Na) Total Strontium (Sr) Total Total Thallium (Ti) Total Titanium (Ti) Total Titanium (U) Total Zinc (Zn) Total Zinc (Zn) Total Mercury (Hg) Hydrocarbons Benzene	#9/L #9/L #9/L #9/L #9/L #9/L #9/L #9/L	1500 (29,000) ¹ equation ¹ 8.91 2.4 ¹ 300 1.7 ¹ varies ¹ 73 25-150 ¹ 1 0.25 0.8 15 (33) ¹ dissolved only 0.026	1000 0.15 1500 0.09 8.9 1 2.4² 300 1.7² 430 73 25-150² 1 0.25 21000 0.8 15 120 7 0.026	10 <11 <10 <10 <10 <10 <10 <10 <10 <10 <	<2 10 10 22 22 9 0.025 1700 <1 146 <0.5 400 25 <2 2 2 180 500 <1 7200 8 <0.1 <2 <2 0.1 <2 6 n/a n/a	<2 14 2 2 8 0.024 2700 <1 <1 <1 <1 <403 <0.5 700 54 <2 <2 <40 800 <1 10900 13 <0.1 <2 <2 <2 <2 0.2 <5 n/a n/a	<1.0 12.7 <1.0 12.7 <1.0 <2.0 <50 0.022 2410 <1.0 <0.40 0.63 327 <0.50 680 42.6 <2.0 <2.0 <100 638 <0.50 <100 638 <0.50 <0.10 9380 12.3 <0.10 <2.0 <2.0 <2.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1	10
Total Barium (Ba) Total Beryllium (Be) Total Beryllium (Be) Total Boron (B) Total Cadmium (Cd) Total Cadmium (Cd) Total Chromium (Cr) Total Cobalt (Co) Total Copper (Cu) Total Copper (Cu) Total Index (Pb) Total Magnesium (Mg) Total Magnesium (Mg) Total Mickel (Ni) Total Nickel (Ni) Total Posphorus (P) Total Selenium (Se) Total Selenium (Se) Total Sodium (Na) Total Sodium (Na) Total Strottium (Sr) Total Strottium (Sr) Total Strottium (Ti) Total Thallium (Ti) Total Titanium (Ti) Total Uranium (U) Total Vanadium (V) Total Mercury (Hg) Hydrocarbons Benzene Toluene	#9/L #9/L #9/L #9/L #9/L #9/L #9/L #9/L	1500 (29,000) ¹ equation ¹ 8,91 2-4 ¹ 300 1-7 ¹ varies ¹ 73 25-150 ¹ 1 0.25 0.8 15 (33) ¹ dissolved only 0.026	1000 0.15 1500 0.09 1500 11 2-4² 300 1-7² 430 73 25-150² 1 0.25 21000 0.8 15 120 7 0.026	10	<2 10 2 2 9 0.025 1700 <1 146 <0.5 400 25 <2 <2 <2 <1 180 500 <1 <1 <0.1 7200 8 <0.1 7200 8 <0.1 <2 <2 <1 0.1 <1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <1 0.1 <	<2 14	<1.0 12.7 <1.0 12.7 <1.0 <2.0 <50 0.022 2410 <1.0 <0.40 633 327 <0.50 680 42.6 <2.0 <2.0 <100 638 <0.50 <0.10 9380 12.3 <0.10 <2.0 <2.0 <1.00 <0.10 9380 12.3 <0.10 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.0	10
Total Barium (Ba) Total Beryllium (Be) Total Bismuth (Bi) Total Bismuth (Bi) Total Cadmium (Cd) Total Cadmium (Cd) Total Cadmium (Cr) Total Calcium (Ca) Total Copper (Cu) Total Copper (Cu) Total India (Pb) Total Magnesium (Mg) Total Magnesium (Mg) Total Manganese (Mn) Total Nickel (Ni) Total Phosphorus (P) Total Selenium (Se) Total Selenium (Se) Total Sodium (Na) Total Silver (Ag) Total Sodium (Na) Total Total Sorium (Sr) Total Total Trainium (Ti) Total Trainium (Ti) Total Trainium (U) Total Vanadium (V) Total Vanadium (V) Total Mydroarbons Benzene Toluene Ethylbenzene	#9/L #9/L #9/L #9/L #9/L #9/L #9/L #9/L	1500 (29,000) ¹ equation ¹ 8.91 2.4 ¹ 300 1.7 ¹ varies ¹ 73 25-150 ¹ 1 0.25 0.8 15 (33) ¹ dissolved only 0.026	1000 0.15 1500 0.09 8.9 1 2.4² 300 1.7² 430 73 25-150² 1 0.25 21000 0.8 15 120 7 0.026	10 <11 <10 <10 <10 <10 <10 <10 <10 <10 <	<2 10 10 22 22 9 0.025 1700 <1 146 <0.5 400 25 <2 2 2 180 500 <1 7200 8 <0.1 <2 <2 0.1 <2 6 n/a n/a	<2 14 2 2 8 0.024 2700 <1 <1 <1 <1 <403 <0.5 700 54 <2 <2 <40 800 <1 10900 13 <0.1 <2 <2 <2 <2 0.2 <5 n/a n/a	<1.0 12.7 <1.0 12.7 <1.0 <2.0 <50 0.022 2410 <1.0 <0.40 0.63 327 <0.50 680 42.6 <2.0 <2.0 <100 638 <0.50 <100 638 <0.50 <0.10 9380 12.3 <0.10 <2.0 <2.0 <2.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1	10
Total Barium (Ba) Total Beryllium (Be) Total Beryllium (Be) Total Boron (B) Total Cadmium (Cd) Total Cadmium (Cd) Total Chromium (Cr) Total Cobalt (Co) Total Copper (Cu) Total Copper (Cu) Total Index (Pb) Total Magnesium (Mg) Total Magnesium (Mg) Total Mickel (Ni) Total Nickel (Ni) Total Posphorus (P) Total Selenium (Se) Total Selenium (Se) Total Sodium (Na) Total Sodium (Na) Total Strottium (Sr) Total Strottium (Sr) Total Strottium (Ti) Total Thallium (Ti) Total Titanium (Ti) Total Uranium (U) Total Vanadium (V) Total Mercury (Hg) Hydrocarbons Benzene Toluene	#9/L #9/L #9/L #9/L #9/L #9/L #9/L #9/L	1500 (29,000) ¹ equation ¹ 8,91 2-4 ¹ 300 1.7 ¹ varies ¹ 73 25-150 ¹ 1 0.25 1 15 (33) ¹ dissolved only 0.026 0.09	1000 0.15 1500 0.09 8.9 1 2.4² 300 1.7² 430 73 25-150² 1 0.25 21000 0.8 15 120 7 0.026	10	<2 10 <2 2 9 0.025 1700 <1 <1 <1 <41 <40.5 400 25 <42 <2 180 500 <41 <0.1 7200 8 <0.1 <22 <1 <0.1 7200 8 <0.1 <22 <1 <0.1 7200 8 <0.1 <1 <0.1 7200 8 <0.1 7200 8 <0.1 7200 8 70.1 70.1 7000 8 70.1 7000 8 70.1 7000 8 70.1 7000 8 70.1	<2 14 22 8 0.024 2700 <1 <1 <1 403 <0.5 700 54 <2 <2 40 800 <1 <0.1 10900 13 <0.1 <2 <2 <1 <0.1 10900 13 <0.1 <1 <1 0.1 10900 13 <0.1 <1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.	<1.0 12.7 12.7 12.7 12.0 12.7 12.0 12.0 12.0 12.0 12.0 12.0 12.0 12.0	10
Total Barium (Ba) Total Beryllium (Be) Total Bismuth (Bi) Total Bismuth (Bi) Total Bismuth (Bi) Total Cadmium (Cd) Total Cadmium (Ca) Total Cadmium (Ca) Total Cromium (Cr) Total Cobalt (Co) Total Copper (Cu) Total Incomplete (Co) Total Lead (Pb) Total Manganese (Mn) Total Manganese (Mn) Total Molybdenum (Mo) Total Mickel (Ni) Total Phosphorus (P) Total Potassium (K) Total Selenium (Se) Total Silver (Ag) Total Sodium (Na) Total Sodium (Na) Total Thallium (Ti) Total Thallium (Ti) Total Titanium (U) Total Vanadium (V) Total Vanadium (V) Total Vanadium (V) Total Mercury (Hg) Hydrocarbons Benzene Toluene Ethylbenzene Xylene (Total)	нд/L	1500 (29,000) ¹ equation ¹ 8,91 2-4 ¹ 300 1-7 ¹ varies ¹ 73 25-150 ¹ 1 0.25 15 (33) ¹ dissolved only 0.026 0.37 0.002 0.09	1000 0.15 1500 0.09 8.9 1 2.4² 300 1.7² 430 73 25-150² 1 0.25 21000 0.8 15 120 7 0.026	10 <11 <10 <10 <10 <10 <10 <10 <10 <10 <	<2 10	<2 14 2 2 8 0.024 2700 <1 <1 <1 <1 <1 403 <0.5 700 54 <2 <2 <2 <2 <2 <2 <2 <5 0.01 10900 13 <0.1 <2 <2 <2 <2 <5 0.1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	<1.0 12.7 <1.0 12.7 <1.0 <2.0 <50 0.022 2410 <1.0 <0.40 0.63 327 <0.50 680 42.6 <2.0 <2.0 <100 638 <0.50 <5.0 <1.00 <0.10 9380 12.3 <0.10 <2.0 <2.0 <5.0 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.	10
Total Barium (Ba) Total Beryllium (Be) Total Bismuth (Bi) Total Bismuth (Bi) Total Cadmium (Cd) Total Cadmium (Ca) Total Cadmium (Ca) Total Cobalt (Co) Total Copper (Cu) Total In (Copper (Cu) Total Manganese (Mn) Total Manganese (Mn) Total Phosphorus (P) Total Total Fotassium (K) Total Potassium (K) Total Selenium (Se) Total Selenium (Se) Total Stodium (Na) Total Strontium (Sr) Total Tranium (Ti) Total Tranium (Ti) Total Tranium (U) Total Vanadium (V) Total Vanadium (V) Total Vanadium (V) Total Mercury (Hg) Hydrocarbons Benzene Ethylbenzene Xylene (Total) Col-C16 Hydrocarbons > C16-C21 Hydrocarbons	#9/L #9/L #9/L #9/L #9/L #9/L #9/L #9/L	1500 (29,000)¹ equation¹ 8.91 2.4¹ 300 1.7¹ varies¹ 73 25-150¹ 1 0.25 15 (33)¹ dissolved only 0.026 0.037 0.002 0.09	1000 0.15 1500 0.09 8.9 1 2.4² 300 1.7² 430 73 25-150² 21000 0.8 15 120 7 0.026 2.1 0.77 0.32 0.33	10	<2 10	<2 14 4 2 2 8 0.024 2700 <1 <1 <1 <1 <1 403 <0.5 700 54 <2 <2 <2 <2 <2 <2 <2 <40 800 <1 10900 13 <0.1 <22 <2 <2 <2 <5 n/a n/a n/a n/a n/a n/a n/a n/a	<1.0 12.7 <1.0 12.7 <1.0 <2.0 <50 0.022 2410 <1.0 <0.63 327 <0.50 680 42.6 <2.0 <2.0 <100 638 <0.50 <5.0 <1.00 <0.10 9380 12.3 <0.10 <2.0 <2.0 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <	10
Total Barium (Ba) Total Beryllium (Be) Total Bismuth (Bi) Total Bismuth (Bi) Total Boron (B) Total Cadmium (Cd) Total Cadmium (Cd) Total Cadmium (Cr) Total Cobalt (Co) Total Coper (Cu) Total Copper (Cu) Total Iron (Fe) Total Lead (Pb) Total Magnesium (Mg) Total Magnesium (Mo) Total Mickel (Ni) Total Molybdenum (Mo) Total Potassium (F) Total Potassium (Se) Total Selenium (Se) Total Selenium (Se) Total Stiver (Ag) Total Strontium (Sr) Total Total Thallium (TI) Total Total Trailium (TI) Total Trailium (U) Total Zinc (Zn) Total Zinc (Zn) Total Mercury (Hg) Hydrocarbons Benzene Toluene Ethylbenzene Xylene (Total) C6-C10 (less BTEX) >C16-C21 Hydrocarbons >C16-C21 Hydrocarbons >C16-C21 Hydrocarbons >C16-C21 Hydrocarbons >C21-C32 Hydrocarbons	#9/L #9/L #9/L #9/L #9/L #9/L #9/L #9/L	1500 (29,000)¹ equation¹ 8.91 2.4¹ 300 1-7¹ 173 25-150¹ 1 0.25 0.8 15 (33)¹ dissolved only 0.026 0.37 0.002 0.09	1000 0.15 1500 0.09 8.9 1 2-4² 300 1-7² 430 73 25-150² 1 0.25 21000 0.8 15 120 7 0.026	10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <	<2 10 10 <2 22 9 0.025 1700 <1 <1 <1 146 <0.5 400 25 <2 <2 <2 <2 <2 <2 <2 <2 <6 n/a	<2 14 22 38 0.024 2700 <1 <1 <1 <1 <1 403 <0.5 700 54 <2 <2 <2 <40 800 <1 10900 13 <0.1 <2 <2 <2 0.2 <5 n/a	<1.0 12.7 <1.0 12.7 <1.0 <2.0 <50 0.022 2410 <1.0 <0.40 0.63 327 <0.50 680 42.6 <2.0 <2.0 <100 638 <0.50 <0.10 9380 12.3 <0.10 <2.0 <2.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1	10
Total Barium (Ba) Total Beryllium (Be) Total Bismuth (Bi) Total Boron (B) Total Cadmium (Cd) Total Cadmium (Cd) Total Cadmium (Cd) Total Chromium (Cr) Total Cobalt (Co) Total Copper (Cu) Total Total Iron (Fe) Total Lead (Pb) Total Magnesium (Mg) Total Magnesium (Mg) Total Monganese (Mn) Total Molybdenum (Mo) Total Nickel (Ni) Total Phosphorus (P) Total Selenium (Se) Total Silver (Ag) Total Sodium (Na) Total Strontium (Sr) Total Titalium (Ti) Total Titalium (Ti) Total Titalium (Ti) Total Titanium (U) Total Vanadium (V) Total Zenene Benzene Toluene Ethylbenzene Xylene (Total) Cc2-C10-C16 Hydrocarbons Cc1-C2-C2-C2-C3-Lydrocarbons Modified TPH (Tier 1)	#9/L #9/L #9/L #9/L #9/L #9/L #9/L #9/L	1500 (29,000) ¹ equation ¹ 8,91 2-4 ¹ 300 1-7 ¹ varies ¹ 73 25-150 ¹ 1 0.25 0.8 15 (33) ¹ dissolved only 0.026 0.09	1000 0.15 1500 0.09 8.9 1 2.4² 300 1.7² 430 73 25-150² 21000 0.8 15 120 7 0.026 2.1 0.77 0.32 0.33	10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <	<2 10 2 2 9 0.025 1700 <1 146 <0.5 400 25 <2 <2 180 500 <1 <1 <0.1 7200 8 <0.1 7200 8 <0.1 <2 <2 0.1 <1 <1 0.1 4 0.1 4 0.1 4 0.1 4 0.1 4 0.1 4 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	<2 14 22 38 0.024 2700 <1 <1 403 <0.5 700 54 <2 <2 40 800 <1 <10 10990 13 <0.1 10990 13 <0.1 <2 <2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <1 0.2 <	<1.0 12.7 <1.0 12.7 <1.0 <2.0 <50 0.022 2410 <1.0 <0.40 633 327 <0.50 680 42.6 <2.0 <2.0 <100 638 <0.50 <0.10 9380 12.3 <0.10 <2.0 <1.0 0.16 <2.0 <1.0 0.16 <1.0 0.16 <1.0 0.16 <1.0 0.16 <1.0 0.16 0.16	10
Total Barium (Ba) Total Beryllium (Be) Total Bismuth (Bi) Total Boron (B) Total Cadmium (Cd) Total Cadmium (Cd) Total Chromium (Cr) Total Cobalt (Co) Total Cobalt (Co) Total Copper (Cu) Total In (Fe) Total Lead (Pb) Total Magnesium (Mg) Total Magnesium (Mo) Total Molybdenum (Mo) Total Mickel (Ni) Total Potassium (F) Total Selenium (Se) Total Selenium (Se) Total Stiver (Ag) Total Strontium (Sr) Total Thallium (TI) Total Trianium (TI) Total Trianium (U) Total Zinc (Zn) Total Zinc (Zn) Total Mercury (Hg) Hydrocarbons Benzene Toluene Ethylbenzene Xylene (Total) C6-C10 (less BTEX) >C16-C2 Hydrocarbons >C16-C21 Hydrocarbons >C16-C21 Hydrocarbons >C16-C21 Hydrocarbons >C16-C21 Hydrocarbons	#9/L #9/L #9/L #9/L #9/L #9/L #9/L #9/L	1500 (29,000)¹ equation¹ 8.91 2.4¹ 300 1-7¹ 173 25-150¹ 1 0.25 0.8 15 (33)¹ dissolved only 0.026 0.37 0.002 0.09	1000 0.15 1500 0.09 8.9 1 2-4² 300 1-7² 430 73 25-150² 1 0.25 21000 0.8 15 120 7 0.026	10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <	<2 10 10 <2 22 9 0.025 1700 <1 <1 <1 146 <0.5 400 25 <2 <2 <2 <2 <2 <2 <2 <2 <6 n/a	<2 14 22 38 0.024 2700 <1 <1 <1 <1 <1 403 <0.5 700 54 <2 <2 <2 <40 800 <1 10900 13 <0.1 <2 <2 <2 0.2 <5 n/a	<1.0 12.7 <1.0 12.7 <1.0 <2.0 <50 0.022 2410 <1.0 <0.40 0.63 327 <0.50 680 42.6 <2.0 <2.0 <100 638 <0.50 <0.10 9380 12.3 <0.10 <2.0 <2.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1	10

Table 1:	Nine Mile	e River Surface	· Water Samplii	na Results

Table 1: Nine Mile River Surface Water Sampling R	esults					FBWHT SW4		
Comments		Compariso	n Criteria			Trinity Road		
Parameters	Units	CCME FAL ¹	NS EQS ²	6-Aug-2014	3-Jun-2015	22-Nov-2016	17-Nov-2020	22-Aug-2023
Field Measured Parameters								
Field TDS	mg/L	 6 F 0 O	 6 F . O O	311 6.51		219 6.59		129
Field pH Specific Conductance	pH units umho/cm	6.5 - 9.0	6.5 - 9.0	0.51		337.2		259
Field Temperature	°C			21.28		8.6		21.3
Colour	TCU					231.1		
Dissolved Oxygen % Saturation	%			21.9		108		
Dissolved Oxygen	mg/L	Min 6.5 or 9.5 ¹		1.94		12.5		
General Parameters pH (lab measured)	pH	6.5 - 9.0	6.5 - 9.0	6.41	6.19	6.69	6.8	6.43
Reactive Silica (SiO ₂)	mg/L			3.7	3.1	3.2	3.6	10.8
Chloride (CI)	mg/L	120 (640) ¹	120	130	138	80	92	53
Fluoride (F)	mg/L	0.12	0.12	n/a	0.2	<0.12	n/a	0.12
Sulphate (SO ₄)	mg/L		128	27	21	21	20	13
Alkalinity (Total as CaCO ₃)	mg/L			<1	<5	5	10	10
Colour Turbidity	TCU NTU	narrative		11 0.63	25 4.7	41 3.1	46 2	99.9 1.09
Conductivity	μS/cm			500	505	334	380	262
Nitrite + Nitrate	mg/L			0.12	0.37	0.14	0.34	0.33
Nitrate (N)	mg/L	2.9 (120) ¹	2.9	0.12	0.37	0.14	0.34	0.33
Nitrite (N)	mg/L	0.06	0.06	<0.01	<0.05	<0.05	<0.01	< 0.05
Ammonia (as N)	mg/L	varies 1	varies 2	n/a	<0.03	<0.03	0.08	0.03
Total Organic Carbon (C)	mg/L			2.5 <0.01	<0.01	7.5 <0.01	6.2 <0.01	12.7 0.99
Orthophosphate (P) Total Suspended Solids (TSS)	mg/L mg/L	narrative		1.2	<0.01 n/a	<0.01	<0.01 n/a	0.99 n/a
Hardness (CaCO ₃)	mg/L			43	46	34.9	38	29.1
Lab Calculated Parameters								
Anion Sum	me/L			4.29	4.36	2.8	3.24	1.99
Cation Sum	me/L			3.98	4.79	2.9	3.09	2.34
Ion Balance (% Difference)	% mg/l			3.75 <1	4.7 <5	1.7 5	2.37 10	8.1 10
Bicarb. Alkalinity (calc. as CaCO ₃) Carb. Alkalinity (calc. as CaCO ₃)	mg/L mg/L			<1	<10	<10	<1	<10
Hydroxide	mg/L			n/a	<5	<5	n/a	<5
Calculated TDS	mg/L			250	267	168	191	125
Langelier Index (@ 20C)	-			nc	-3.54	-3.2	-2.49	-3.21
Langelier Index (@ 4C)	-			nc	-3.86	-3.52	-2.74	-3.53
Saturation pH (@ 20C)	-			nc	9.73	9.89	9.29	9.64
Saturation pH (@ 4C)	-			nc	7.1	10.2	9.54	9.96
Bacteriogical Parameters Fecal Coliforms	CFU/100mL			96	80	5	n/a	n/a
Total Coliforms	CFU/100mL			>250	280	14	n/a	n/a
E. Coli	CFU/100mL			80	45	2	n/a	n/a
Total Metals			2					
Total Aluminum (AI)	μg/L	5 - 100 ¹	5 - 100 ²	50	279	240	187	288
Total America (Ap)	μg/L		9 5	<1 <1	<2 <2	<2 <2	<1.0 <1.0	<2 <2
Total Arsenic (As) Total Barium (Ba)	μg/L μg/L	5	1000	30	32	23	23.4	17
Total Beryllium (Be)	μg/L		0.15	<1	<2	<2	<1.0	<2
Total Bismuth (Bi)	µg/L			<2	<2	<2	<2.0	<2
Total Boron (B)	μg/L	1500 (29,000) ¹	1500	<50	9	12	<50	11
Total Cadmium (Cd)	μg/L	equation ¹	0.09	0.11	0.133	0.02	0.029	<0.09
Total Calcium (Ca)	μg/L			14000	15800	10500	12000	9000
Total Chromium (Cr)	μg/L	8.91	8.9	<1	<1	<1	<1.0	<2
Total Copper (Cu)	μg/L	2-4 ¹	2-4 ²	0.56 <2	2	<1 2	<0.40 1.6	<1 3
Total Copper (Cu) Total Iron (Fe)	μg/L μg/L	300	300	51	259	353	327	365
Total Lead (Pb)	μg/L	1-71	1-7 ²	<0.5	0.6	0.7	<0.50	<0.5
Total Magnesium (Mg)	μg/L			2200	1600	2100	1000	1600
				2200	.000		1990	1000
Total Manganese (Mn)	μg/L	varies 1	430	150	211	90	99.2	113
Total Molybdenum (Mo)	μg/L μg/L	73	430 73	150 <2	211 <2	90 <2	99.2 <2.0	113 <2
Total Molybdenum (Mo) Total Nickel (Ni)	μg/L μg/L μg/L	73 25-150 ¹	430 73 25-150 ²	150 <2 6	211 <2 8	90 <2 <2	99.2 <2.0 <2.0	113 <2 <2
Total Molybdenum (Mo) Total Nickel (Ni) Total Phosphorus (P)	µg/L µg/L µg/L µg/L	73 25-150 ¹ 	430 73 25-150 ²	150 <2 6 <100	211 <2 8 170	90 <2 <2 <40	99.2 <2.0 <2.0 <100	113 <2 <2 <2 1.08
Total Molybdenum (Mo) Total Nickel (Ni) Total Phosphorus (P) Total Potassium (K)	µg/L µg/L µg/L µg/L µg/L	73 25-150 ¹	430 73 25-150 ²	150 <2 6	211 <2 8	90 <2 <2	99.2 <2.0 <2.0	113 <2 <2
Total Molybdenum (Mo) Total Nickel (Ni) Total Phosphorus (P)	µg/L µg/L µg/L µg/L	73 25-150 ¹ 	430 73 25-150 ² 	150 <2 6 <100 1400	211 <2 8 170 1000	90 <2 <2 <2 40 1400	99.2 <2.0 <2.0 <100 1410	113 <2 <2 <2 1.08 1400
Total Molybdenum (Mo) Total Nickel (Ni) Total Phosphorus (P) Total Postasium (K) Total Selenium (Se) Total Silver (Ag) Total Soldium (Na)	hā/r hā/r hā/r hā/r hā/r hā/r	73 25-150 ¹ 1 0.25	430 73 25-150 ² 1 0.25	150 <2 6 <100 1400 <1 <0.1 71000	211 <2 8 170 1000 <1 <0.1 87200	90 <2 <2 40 1400 <1 <0.1 48900	99.2 <2.0 <2.0 <100 1410 <0.50 <0.10 52300	113 <2 <2 1.08 1400 <1 <0.1 38400
Total Molybdenum (Mo) Total Nickel (Ni) Total Phosphorus (P) Total Potassium (K) Total Selenium (Se) Total Silver (Ag) Total Sodium (Na) Total Sodium (Na)	µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L	73 25-150 ¹ 1 0.25	430 73 25-150 ² 1 0.25 21000	150 <2 6 <100 1400 <1 <0.1 71000 55	211 <2 8 170 1000 <1 <0.1 87200 51	90 <2 <2 40 1400 <1 <0.1 48900 48	99.2 <2.0 <2.0 <100 1410 <0.50 <0.10 52300 48.5	113 <2 <2 1.08 1400 <1 <0.1 38400 37
Total Molybdenum (Mo) Total Nickel (Ni) Total Phosphorus (P) Total Potassium (K) Total Selenium (Se) Total Silver (Ag) Total Sodium (Na) Total Stontium (Sr) Total Stontium (Sr) Total Thallium (TI)	µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L	73 25-150 ¹ 1 0.25 0.8	430 73 25-150 ² 1 0.25 21000 0.8	150 <2 6 <100 1400 <1 <0.1 71000 55 <0.1	211 <2 8 170 1000 <1 <0.1 87200 51 <0.1	90 <2 <2 40 1400 <1 <0.1 48900 48 <0.1	99.2 <2.0 <2.0 <100 1410 <0.50 <0.10 52300 48.5 <0.10	113 <2 <2 <1.08 1400 <1 <0.1 38400 37 <0.1
Total Molybdenum (Mo) Total Nickel (Ni) Total Phosphorus (P) Total Potassium (K) Total Selenium (Se) Total Silver (Ag) Total Sodium (Na) Total Strontium (Sr) Total Thallium (TI) Total Tin (Sn)	µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L	73 25-150 ¹ 1 0.25	430 73 25-150 ² 1 0.25 21000 0.8	150 <2 6 <100 1400 <1 <0.1 71000 55 <0.1 <2	211 <2 8 170 1000 <1 <0.1 87200 51 <0.1 <2	90 <2 <2 40 1400 <1 <0.1 48900 48 <0.1 <2	99.2 <2.0 <2.0 <100 1410 <0.50 <0.10 52300 48.5 <0.10 <2.0	113 <2 <2 1.08 1400 <1 <0.1 38400 37 <0.1 <2
Total Molybdenum (Mo) Total Nickel (Ni) Total Phosphorus (P) Total Potassium (K) Total Selenium (Se) Total Silver (Ag) Total Sodium (Na) Total Strontium (Sr) Total Thallium (TI) Total Tin (Sn) Total Tin (Sn)	µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L	73 25-150 ¹ 1 0.25 0.8 	430 73 25-150 ² 1 0.25 21000 0.8	150 <2 6 <100 14400 <1	211 <2 8 170 1000 <1 <0.1 87200 51 <0.1 <2 4	90 <2 <2 40 1400 <1 <0.1 48900 48 <0.1 <2 5	99.2 <2.0 <2.0 <100 1410 <0.50 <0.10 52300 48.5 <0.10 <2.0 3	113 <2 <2 1.08 1400 <1 <0.1 38400 37 <0.1 <2 <3
Total Molybdenum (Mo) Total Nickel (Ni) Total Phosphorus (P) Total Potassium (K) Total Selenium (Se) Total Silver (Ag) Total Sodium (Na) Total Strontium (Sr) Total Thallium (TI) Total Tin (Sn)	µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L	73 25-150 ¹ 1 0.25 0.8	430 73 25-150 ² 1 0.25 21000 0.8	150 <2 6 <100 1400 <1 <0.1 71000 55 <0.1 <2	211 <2 8 170 1000 <1 <0.1 87200 51 <0.1 <2	90 <2 <2 40 1400 <1 <0.1 48900 48 <0.1 <2	99.2 <2.0 <2.0 <100 1410 <0.50 <0.10 52300 48.5 <0.10 <2.0	113 <2 <2 1.08 1400 <1 <0.1 38400 37 <0.1 <2
Total Molybdenum (Mo) Total Nickel (Ni) Total Phosphorus (P) Total Potassium (K) Total Selenium (Se) Total Silver (Ag) Total Sodium (Na) Total Strontium (Sr) Total Thallium (TI) Total Tincil (Tincil Tincil Tincil Tincil (Tincil Tincil Tincil (Tincil Total Tincil (Tincil Tincil (Tincil Tincil Tincil (Tincil (Tincil Tincil (Tincil (Ti	µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L	73 25-150 ¹ 1 0.25 0.8 15 (33) ¹	430 73 25-150 ² 1 0.25 21000 0.8 15 120 7	150 <2 6 <100 1400 <1 <0.1 71000 55 <0.1 <2 <2 0.14	211 <2 8 170 1000 <1 <0.1 87200 51 <0.1 <2 4 0.3	90 <2 <2 40 1400 <1 <0.1 48900 48 <0.1 <2 5 0.4	99.2 <2.0 <2.0 <100 1410 <0.50 <0.10 52300 48.5 <0.10 <2.0 3 0.46 <2.0 8.1	113 <2 <2 1.08 1400 <1 <0.1 38400 37 <0.1 <2 <3 0.8
Total Molybdenum (Mo) Total Nickel (Ni) Total Phosphorus (P) Total Potassium (K) Total Selenium (Se) Total Silver (Ag) Total Silver (Ag) Total Strontium (Sr) Total Strontium (Sr) Total Thallium (TI) Total Tin (Sn) Total Titanium (Ti) Total Uranium (U) Total Vanadium (V) Total Zinc (Zn) Total Mercury (Hg)	µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L	73 25-150 ¹ 1 0.25 0.8 15 (33) ¹	430 73 25-150 ² 1 0.25 21000 0.8 15 120	150 <2 6 <100 1400 <11 <0.1 71000 55 <0.1 <2 <2 0.1 <22 <2 0.14 <2	211 <2 8 170 1000 <1 <0.1 87200 51 <0.1 <2 4 0.3 <2	90 <2 <2 40 1400 <1 <0.1 48900 48 <0.1 <2 5 0.4 <2	99.2 <2.0 <2.0 <100 1410 <0.50 <0.10 52300 48.5 <0.10 <2.0 3 0.46 <2.0	113 <2 <2 <1.08 1400 <1 <0.1 38400 37 <0.1 <2 <3 0.8 <2
Total Molybdenum (Mo) Total Nickel (Ni) Total Phosphorus (P) Total Potassium (K) Total Selenium (Se) Total Silver (Ag) Total Sodium (Na) Total Sodium (Na) Total Strontium (Sr) Total Thallium (TI) Total Tin (Sn) Total Tinalium (Ti) Total Uranium (U) Total Vanadium (V) Total Zinc (Zn) Total Mercury (Hg) Hydrocarbons	µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L	73 25-150 ¹ 1 0.25 0.8 15 (33) ¹ dissolved only 0.026	430 73 25-150 ² 1 0.25 21000 0.8 15 120 7 0.026	150 <2 6 <100 1400 <11 0.1 71000 55 <0.1 <2 <2 <2 0.14 <2 24 n/a	211 <2 8 170 1000 <1 <0.1 87200 51 <0.1 <2 4 0.3 <2 2 8 n/a	90 <2 40 1400 <1 <0.1 48900 48 <0.1 <2 5 0.4 <2 11 n/a	99.2 <2.0 <2.0 <100 1410 <0.50 <0.10 52300 48.5 <0.10 <2.0 3 0.46 <2.0 8.1 <0.013	113 <2 <2 1.08 1400 <1 <0.1 38400 37 <0.1 <2 <3 0.8 <2 11 n/a
Total Molybdenum (Mo) Total Nickel (Ni) Total Phosphorus (P) Total Posphorus (P) Total Postasium (K) Total Selenium (Se) Total Silver (Ag) Total Sodium (Na) Total Strontium (Sr) Total Thallium (TI) Total Tin (Sn) Total Titanium (TI) Total Titanium (TI) Total Varadium (U) Total Varadium (V) Total Zinc (Zn) Total Mercury (Hg) Hydrocarbons Benzene	µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L	73 25-150 ¹ 1 0.25 0.8 15 (33) ¹ dissolved only 0.026	430 73 25-150 ² 1 0.25 21000 0.8 15 120 7 0.026	150 <2 6 <100 1400 <1 71000 55 <0.1 72 <2 <2 0.14 <2 24 n/a	211 <2 8 170 1000 <1 <0.1 87200 51 <0.1 <2 4 0.3 <2 2 8 n/a	90 <2 <2 40 1400 <1 <0.1 48900 48 <0.0.1 <2 5 0.4 <2 11 n/a	99.2 <2.0 <100 <1410 <0.50 <0.10 52300 48.5 <0.10 <2.0 3 0.46 <2.0 8.1 <0.013	113 <2 <1.08 1400 <1 <0.1 38400 37 <0.1 38400 37 <0.1 <2 <3 0.8 <2 11 n/a <0.001
Total Molybdenum (Mo) Total Nickel (Ni) Total Phosphorus (P) Total Potassium (K) Total Selenium (Se) Total Siver (Ag) Total Sodium (Na) Total Strontium (Sr) Total Thallium (TI) Total Tinalium (TI) Total Tranium (U) Total Vanadium (V) Total Zinc (Zn) Total Mercury (Hg) Hydrocarbons Benzene Tolulene	µg/L	73 25-150 ¹ 1 0.25 0.8 15 (33) ¹ dissolved only 0.026	430 73 25-150 ² 1 0.25 21000 0.8 15 120 7 0.026	150 <2 6 <100 14400 <1 <0.1 71000 55 <0.1 <2 <2 0.14 <2 2 4 n/a n/a	211 <2 8 170 1000 <1 <0.1 87200 51 <0.1 <2 4 0.3 <2 2 8 n/a n/a	90 <2 40 1400 <1 48900 48 <0.1 <2 5 0.4 <2 11 n/a n/a	99.2 <2.0 <2.0 <100 1410 <0.50 <0.10 52300 48.5 <0.10 <2.0 3 0.46 <2.0 8.1 <0.013	113
Total Molybdenum (Mo) Total Nickel (Ni) Total Phosphorus (P) Total Posphorus (P) Total Postasium (K) Total Selenium (Se) Total Silver (Ag) Total Sodium (Na) Total Strontium (Sr) Total Thallium (TI) Total Tin (Sn) Total Titanium (TI) Total Titanium (TI) Total Varadium (U) Total Varadium (V) Total Zinc (Zn) Total Mercury (Hg) Hydrocarbons Benzene	µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L	73 25-150 ¹ 1 0.25 0.8 15 (33) ¹ dissolved only 0.026	430 73 25-150 ² 1 0.25 21000 0.8 15 120 7 0.026	150 <2 6 <100 1400 <1 71000 55 <0.1 72 <2 <2 0.14 <2 24 n/a	211 <2 8 170 1000 <1 <0.1 87200 51 <0.1 <2 4 0.3 <2 2 8 n/a	90 <2 <2 40 1400 <1 <0.1 48900 48 <0.0.1 <2 5 0.4 <2 11 n/a	99.2 <2.0 <100 <1410 <0.50 <0.10 52300 48.5 <0.10 <2.0 3 0.46 <2.0 8.1 <0.013	113 <2 <1.08 1400 <1 <0.1 38400 37 <0.1 38400 37 <0.1 <2 <3 0.8 <2 11 n/a <0.001
Total Molybdenum (Mo) Total Nickel (Ni) Total Phosphorus (P) Total Potassium (K) Total Selenium (Se) Total Silver (Ag) Total Silver (Ag) Total Strontium (Sr) Total Strontium (Sr) Total Thallium (TI) Total Tin (Sn) Total Titanium (TI) Total Uranium (U) Total Vanadium (V) Total Zinc (Zn) Total Mercury (Hg) Hydrocarbons Benzene Toluene Ethylbenzene	µg/L	73 25-150 ¹ 1 0.25 0.8 15 (33) ¹ dissolved only 0.026 0.37 0.002	430 73 25-150 ² 1 0.25 21000 0.8 15 120 7 0.026	150 <2 6 <100 1400 1400 <1 <1,1 71000 55 <0.1 <2 <2 <2 24 n/a n/a n/a n/a	211 <2 8 170 1000 <1 <0.1 87200 51 <0.1 <2 4 0.3 <2 2 8 n/a n/a n/a	90 <2 40 1400 <1 <0.1 48900 48 <0.1 <2 5 0.4 <2 11 n/a n/a	99.2 <2.0 <2.0 <100 1410 <0.50 <0.10 52300 48.5 <0.10 <2.0 3 0.46 <2.0 8.1 <0.013	113
Total Molybdenum (Mo) Total Nickel (Ni) Total Phosphorus (P) Total Potassium (K) Total Selenium (Se) Total Silver (Ag) Total Silver (Ag) Total Strontium (Sr) Total Strontium (Sr) Total Thallium (TI) Total Tin (Sn) Total Titanium (Ti) Total Uranium (U) Total Vanadium (V) Total Zilver (Zn) Total Mercury (Hg) Hydrocarbons Benzene Toluene Ethylbenzene Xylene (Total) G-C-10 (less BTEX) >-C10-C16 Hydrocarbons	µg/L	73 25-150 ¹ 1 0.25 0.8 15 (33) ¹ dissolved only 0.026 0.37 0.002 0.09	430 73 25-150 ² 1 0.25 21000 0.8 15 120 7 0.026 2.1 0.77 0.32 0.33	150 <2 6 <100 1400 <1 400 <1 71000 55 <0.1 71000 55 <0.14 <2 2 4 n/a n/a n/a n/a n/a n/a	211 <2 8 170 1000 <1 <0.1 87200 51 <0.1 87202 4 0.3 <2 4 0.3 <2 2 8 n/a n/a n/a n/a n/a n/a	90 <2 40 1400 <1 48900 48 <0.1 <2 5 0.4 <2 11 n/a n/a n/a n/a n/a n/a	99.2 <2.0 <2.0 <100 1410 <0.50 <0.10 52300 48.5 <0.10 <2.0 3 0.46 <2.0 8.1 <0.013 n/a n/a n/a n/a n/a	113
Total Molybdenum (Mo) Total Nickel (Ni) Total Phosphorus (P) Total Posphorus (P) Total Posphorus (R) Total Selenium (Se) Total Silver (Ag) Total Sodium (Na) Total Strontium (Sr) Total Thallium (TI) Total Tin (Sn) Total Titanium (TI) Total Uranium (U) Total Vanadium (V) Total Vanadium (V) Total Zinc (Zn) Total Mercury (Hg) Hydrocarbons Benzene Toluene Ethylbenzene Xylene (Total) C6-C10 (less BTEX) >>C16-C21 Hydrocarbons	µg/L	73 25-150 ¹ 1 0.25 0.8 15 (33) ¹ dissolved only 0.026 0.37 0.002 0.09	430 73 25-150 ² 1 0.25 21000 0.8 15 120 7 0.026 2.1 0.77 0.32 0.33	150 <2 6 <100 1400 <11 <0.1 71000 55 <0.1 <2 <2 <2 0.14 <2 24 n/a n/a n/a n/a n/a n/a n/a n/a	211 <2 8 170 1000 <1 <0.1 87200 51 <0.1 <2 4 0.3 <2 2 8 n/a n/a n/a n/a n/a n/a n/a	90 <2 40 1400 <1 <0.1 48900 48 <0.1 <2 5 0.4 <2 11 n/a n/a n/a n/a n/a	99.2 <2.0 <100 1410 <0.50 <0.10 52300 48.5 <0.10 <2.0 3 0.46 <2.0 8.1 <0.013 n/a n/a n/a n/a n/a n/a	113
Total Molybdenum (Mo) Total Nickel (Ni) Total Phosphorus (P) Total Potassium (K) Total Selenium (Se) Total Selenium (Se) Total Siver (Ag) Total Sodium (Na) Total Strontium (Sr) Total Thallium (Ti) Total Tin (Sn) Total Titanium (Ti) Total Titanium (U) Total Zinc (Zn) Total Zinc (Zn) Total Mercury (Hg) Hydrocarbons Benzene Toluene Ethylbenzene Xylene (Total) C6-C10 (less BTEX) >C16-C21 Hydrocarbons >C21-C32 Hydrocarbons	µg/L	73 25-150 ¹ 1 0.25 0.8 15 (33) ¹ dissolved only 0.026 0.37 0.002	430 73 25-150 ² 1 1 0.25 21000 0.8 15 120 7 0.026 2.1 0.77 0.32 0.33	150 <2 6 <100 1400 <1 71000 55 <0.1 72 <2 2 0.14 <2 24 n/a	211 <2 8 170 1000 <1 <0.1 87200 51 <0.1 <2 4 0.3 <2 2 8 n/a n/a n/a n/a n/a n/a n/a	90 <2 40 1400 <1 48900 48 <0.1 <2 5 0.4 <2 11 n/a n/a n/a n/a n/a n/a n/a n/a n/a	99.2 <2.0 <2.0 <100 1410 <0.50 <0.10 52300 48.5 <0.10 <2.0 3 0.46 <2.0 8.1 <0.013 n/a n/a n/a n/a n/a n/a n/a n/a	113
Total Molybdenum (Mo) Total Nickel (Ni) Total Phosphorus (P) Total Potassium (K) Total Selenium (Se) Total Selenium (Se) Total Silver (Ag) Total Silver (Ag) Total Strontium (Sr) Total Thallium (TI) Total Tinalium (TI) Total Tranlium (U) Total Titanium (V) Total Zinc (Zn) Total Mercury (Hg) Hydrocarbons Benzene Toluene Ethylbenzene Xylene (Total) C6-C10 (less BTEX) >C10-C16 Hydrocarbons >C16-C21 Hydrocarbons Modified TPH (Tier 1)	µg/L	73 25-150 ¹ 1 0.25 0.8 15 (33) ¹ dissolved only 0.026 0.37 0.002 0.09	430 73 25-150 ² 1 0.25 21000 0.8 15 120 7 0.026 2.1 0.77 0.32 0.33	150 <2 6 <100 14400 <1 <0.1 71000 55 <0.1 72 <2 2 0.14 <2 2 4 n/a	211 <2 8 170 1000 <1 <0.1 87200 51 <0.1 <2 4 0.3 <2 2 8 n/a n/a n/a n/a n/a n/a n/a n/a	90 <22 40 1400 <1 48900 48 <0.1 <22 5 0.4 <22 11 n/a	99.2 <2.0 <2.0 <100 1410 <0.50 <0.10 52300 48.5 <0.10 <2.0 3 0.46 <2.0 8.1 <0.013 n/a n/a n/a n/a n/a n/a n/a n/a	113
Total Molybdenum (Mo) Total Nickel (Ni) Total Phosphorus (P) Total Potassium (K) Total Selenium (Se) Total Selenium (Se) Total Siver (Ag) Total Sodium (Na) Total Strontium (Sr) Total Thallium (Ti) Total Tin (Sn) Total Titanium (Ti) Total Titanium (U) Total Zinc (Zn) Total Zinc (Zn) Total Mercury (Hg) Hydrocarbons Benzene Toluene Ethylbenzene Xylene (Total) C6-C10 (less BTEX) >C16-C21 Hydrocarbons >C21-C32 Hydrocarbons	µg/L	73 25-150 ¹ 1 0.25 0.8 15 (33) ¹ dissolved only 0.026 0.37 0.002	430 73 25-150 ² 1 1 0.25 21000 0.8 15 120 7 0.026 2.1 0.77 0.32 0.33	150 <2 6 <100 1400 <1 71000 55 <0.1 72 <2 2 0.14 <2 24 n/a	211 <2 8 170 1000 <1 <0.1 87200 51 <0.1 <2 4 0.3 <2 2 8 n/a n/a n/a n/a n/a n/a n/a	90 <2 40 1400 <1 48900 48 <0.1 <2 5 0.4 <2 11 n/a n/a n/a n/a n/a n/a n/a n/a n/a	99.2 <2.0 <2.0 <100 1410 <0.50 <0.10 52300 48.5 <0.10 <2.0 3 0.46 <2.0 8.1 <0.013 n/a n/a n/a n/a n/a n/a n/a n/a	113

Table 1:	Nine Mile	e River Surface	· Water Samplii	na Results

Table 1: Nine Mile River Surface Water Sampling R		Compariso	n Criteria	FBWHT SW5					
Comments							ighway 3		
Parameters	Units	CCME FAL ¹	NS EQS ²	6-Aug-2014	3-Jun-2015	22-Nov-2016	17-Nov-2020	22-Aug-2023	22-Aug-2023
Field Measured Parameters Field TDS	mg/L			0.122		83.85		40	Field Dup
Field pH	pH units	6.5 - 9.0	6.5 - 9.0	6.87		5.86		70	
Specific Conductance	umho/cm					128.9		80	
Field Temperature	°C			20.06		7.8		21.4	
Colour	TCU			24		86.3			
Dissolved Oxygen % Saturation	% mg/l	 Min 6.5 or 9.5 ¹		34 3.02		96 11.3			
Dissolved Oxygen General Parameters	mg/L	WIII 0.3 01 9.3		3.02		11.3			
pH (lab measured)	pН	6.5 - 9.0	6.5 - 9.0	6.46	6.3	6.59	6.34	6.17	6.14
Reactive Silica (SiO ₂)	mg/L			1.5	2.2	2.9	3.4	3	2.9
Chloride (CI)	mg/L	120 (640) ¹	120	22	31	28	29	14	14
Fluoride (F)	mg/L	0.12	0.12	n/a	0.2	<0.12	n/a	<0.12	<0.12
Sulphate (SO ₄) Alkalinity (Total as CaCO ₃)	mg/L mg/L		128	3.8 <1	6 <5	8 <5	6	5	6
Colour	TCU			56	71	58	83	38.6	125
Turbidity	NTU	narrative		0.41	3.4	4	1.6	0.83	0.75
Conductivity	μS/cm			89	137	130	120	84	84
Nitrite + Nitrate	mg/L			0.51	0.26	0.06	0.2	0.11	0.1
Nitrate (N)	mg/L	2.9 (120) ¹	2.9	0.51	0.26	0.06	0.2	0.11	0.1
Nitrite (N)	mg/L	0.06	0.06	<0.01	<0.05	< 0.05	<0.01	< 0.05	< 0.05
Ammonia (as N)	mg/L	varies 1	varies 2	n/a	<0.03	< 0.03	0.06	<0.03	<0.03
Total Organic Carbon (C) Orthophosphate (P)	mg/L			5.5 <0.01	7.8 0.03	10.2 <0.01	10 <0.01	16 0.01	15.6 <0.01
Total Suspended Solids (TSS)	mg/L mg/L	narrative		<1	0.03 n/a	<5	n/a	n/a	n/a
Hardness (CaCO ₃)	mg/L			9.7	12.9	15.6	14	10.1	11.5
Lab Calculated Parameters									
Anion Sum	me/L			0.7	1.02	0.96	1.09	0.59	0.61
Cation Sum	me/L			0.74	1.2	1.12	1.01	0.78	0.87
Ion Balance (% Difference)	%			2.78	8.1	7.5	3.81	14.4	18
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L			<1 <1	<5 <10	<5 <10	6	5 <10	6
Carb. Alkalinity (calc. as CaCO ₃) Hydroxide	mg/L mg/L			n/a	<5	<5	<1 n/a	<5	<10 <5
Calculated TDS	mg/L			ND	64	60	65	38	41
Langelier Index (@ 20C)	-			nc	-3.97	-3.62	-3.6	-4.21	-4.11
Langelier Index (@ 4C)	-			nc	-4.29	-3.94	-3.85	-4.53	-4.43
Saturation pH (@ 20C)	-			nc	10.3	10.2	9.94	10.4	10.3
Saturation pH (@ 4C)	-			nc	10.6	10.5	10.2	10.7	10.6
Bacteriogical Parameters	CFU/100mL			100	135	2	2/0	n/o	n/o
Fecal Coliforms Total Coliforms	CFU/100mL			>250	445	54	n/a n/a	n/a n/a	n/a n/a
E. Coli	CFU/100mL			70	125	13	n/a	n/a	n/a
Total Metals									
Total Aluminum (AI)	μg/L	5 - 100 ¹	5 - 100 ²	130	308	363	288	324	378
Total Antimony (Sb)	μg/L		9	<1	<2	<2	<1.0	<2	<2
Total Arsenic (As)	μg/L	5	5	<1	<2	<2	<1.0	<2	<2
Total Barium (Ba)	μg/L		1000 0.15	11 <1	16 <2	15 <2	14 <1.0	10 <2	13 <2
Total Beryllium (Be) Total Bismuth (Bi)	μg/L μg/L		0.15	<2	<2	<2	<2.0	<2	<2
Total Boron (B)	μg/L	1500 (29,000) ¹	1500	<50	8	9	<50	7	86
Total Cadmium (Cd)	μg/L	equation1	0.09	0.26	0.03	0.023	0.029	< 0.09	< 0.09
Total Calcium (Ca)	μg/L			2800	4000	4600	3950	2900	3300
Total Chromium (Cr)	μg/L	8.91	8.9	<1	<1	<1	<1.0	<2	<2
Total Cobalt (Co)	μg/L		1	4.8	<1	<1	<0.40	<1	<1
Total Copper (Cu)	μg/L	2-41	2-4 ² 300	<2 180	1 281	3 348	1.17 313	<2 361	<2 403
Total Iron (Fe) Total Lead (Pb)	μg/L μg/L	300 1-7 ¹	1-7 ²	<0.5	0.8	0.8	<0.50	<0.5	5.2
Total Magnesium (Mg)	µg/L			670	700	1000	887	700	800
Total Manganese (Mn)	μg/L	varies 1	430	29	61	47	38	43	42
Total Molybdenum (Mo)	μg/L	73	73	<2	<2	<2	<2.0	<2	<2
Total Nickel (Ni)	μg/L	25-150 ¹	25-150 ²	12	2	<2	<2.0	<2	<2
Total Phosphorus (P)	μg/L			<100	180	40	<100	0.82	0.92
Total Potassium (K)	μg/L			680	700	900	729	800	1000
Total Selenium (Se) Total Silver (Ag)	μg/L μg/l	0.25	1 0.25	<1 <0.1	<1 <0.1	<1 <0.1	<0.50 <0.10	<1 <0.1	<1 <0.1
Total Solium (Na)	μg/L μg/L	0.25	0.25	12000	20100	16700	16100	11700	12800
Total Strontium (Sr)	μg/L		21000	110	18	20	17.8	14	15
Total Thallium (TI)	μg/L	0.8	0.8	<0.1	<0.1	<0.1	<0.10	<0.1	<0.1
Total Tin (Sn)	μg/L			<2	<2	<2	<2.0	<2	<2
Total Titanium (Ti)	μg/L	 45 (00)1		<2	4	8	2.1	<3	3
Total Uranium (U)	µg/L	15 (33) ¹	15	0.15 <2	0.3	0.3 <2	0.27 <2.0	0.3	0.3
Total Vanadium (V) Total Zinc (Zn)	μg/L μg/L	dissolved only	120 7	9.8	<2 11	7	5.2	<2 <5	<2 12
Total Mercury (Hg)	ug/L	0.026	0.026	n/a	n/a	n/a	<0.013	n/a	n/a
Hydrocarbons									
Benzene	mg/L	0.37	2.1	n/a	n/a	n/a	n/a	<0.001	<0.001
Toluene	mg/L	0.002	0.77	n/a	n/a	n/a	n/a	<0.001	<0.001
Ethylbenzene	mg/L	0.09	0.32	n/a	n/a	n/a	n/a	<0.001	<0.001
Xylene (Total)	mg/L		0.33	n/a	n/a	n/a	n/a	<0.002	< 0.002
C6-C10 (less BTEX) >C10-C16 Hydrocarbons	mg/L			n/a n/a	n/a n/a	n/a n/a	n/a n/a	<0.01 <0.05	<0.01 <0.05
>C10-C16 Hydrocarbons >C16-C21 Hydrocarbons	mg/L mg/L			n/a n/a	n/a n/a	n/a n/a	n/a n/a	<0.05	<0.05
	mg/L			n/a	n/a	n/a	n/a	<0.03	<0.03
>C21-C32 Hydrocarbons									
>C21-C32 Hydrocarbons Modified TPH (Tier 1)	mg/L		0.1 - 1.5 ²	n/a	n/a	n/a	n/a	< 0.1	< 0.1
			0.1 - 1.5 ²	n/a n/a	n/a n/a	n/a n/a	n/a n/a	<0.1 Trace	<0.1 Trace
Modified TPH (Tier 1)		l							

Table 1:	Nine Mile	e River Surface	· Water Samplii	na Results

Table 1: Nine Mile River Surface Water Sampling R	esults					FBWHT SW6		
Comments		Compariso	n Criteria		Lake	side Industrial	Park	
Parameters	Units	CCME FAL ¹	NS EQS ²	11-Aug-2014	3-Jun-2015	22-Nov-2016	17-Nov-2020	22-Aug-2023
Field Measured Parameters								
Field TDS Field pH	mg/L		6.5 - 9.0	419 6.41		249 6.93		160
Specific Conductance	pH units umho/cm	6.5 - 9.0	6.5 - 9.0	0.41		382.6		321
Field Temperature	°C			20.84		8.2		20.9
Colour	TCU					259.4		
Dissolved Oxygen % Saturation	%			19.5		106		
Dissolved Oxygen	mg/L	Min 6.5 or 9.5 ¹		1.72		12.4		
General Parameters pH (lab measured)	pH	6.5 - 9.0	6.5 - 9.0	6.85	6.17	6.71	6.95	6.33
Reactive Silica (SiO ₂)	mg/L			5.6	4	4.6	4.9	2.3
Chloride (CI)	mg/L	120 (640) ¹	120	230	251	82	93	61
Fluoride (F)	mg/L	0.12	0.12	n/a	0.3	0.14	n/a	0.16
Sulphate (SO ₄)	mg/L		128	33	41	39	32	23
Alkalinity (Total as CaCO ₃)	mg/L			18	<5	<5	14	13
Colour Turbidity	TCU NTU	narrative		30 2	<5 3.1	13 3.8	15 2.2	111 2.41
Conductivity	μS/cm			980	893	374	410	319
Nitrite + Nitrate	mg/L			0.22	0.37	0.32	0.82	0.62
Nitrate (N)	mg/L	2.9 (120) ¹	2.9	0.22	0.37	0.32	0.82	0.62
Nitrite (N)	mg/L	0.06	0.06	<0.01	< 0.05	<0.05	<0.01	<0.05
Ammonia (as N)	mg/L	varies 1	varies 2	n/a	<0.03	0.04	0.07	< 0.03
Total Organic Carbon (C)	mg/L			2.3	2	5.4	4.2	6
Orthophosphate (P) Total Suspended Solids (TSS)	mg/L mg/L	narrative		<0.01 1.8	<0.01 n/a	<0.01 <5	<0.01 n/a	<0.01 n/a
Hardness (CaCO ₃)	mg/L			83	82.9	53.3	55	42.8
Lab Calculated Parameters	5-					23.0		.2.0
Anion Sum	me/L			7.55	7.96	3.15	3.62	2.5
Cation Sum	me/L			7.88	8.71	3.32	3.55	2.97
Ion Balance (% Difference)	% ma/l			2.14	4.5	2.7	0.98	8.6
Bicarb. Alkalinity (calc. as CaCO ₃) Carb. Alkalinity (calc. as CaCO ₃)	mg/L mg/L			18 <1	<5 <10	<5 <10	14 <1	13 <10
Hydroxide	mg/L			n/a	<5	<5	n/a	<5
Calculated TDS	mg/L			460	488	194	219	159
Langelier Index (@ 20C)	-			-1.95	-3.33	-3.01	-2.07	-3.05
Langelier Index (@ 4C)	-			-2.2	-3.65	-3.33	-2.32	-3.37
Saturation pH (@ 20C)	-			8.8	9.5	9.72	9.02	9.38
Saturation pH (@ 4C)	-			9.05	9.82	10	9.27	9.7
Bacteriogical Parameters Fecal Coliforms	CFU/100mL			160	20	70	n/a	n/a
Total Coliforms	CFU/100mL			>2500	20	30	n/a	n/a
E. Coli	CFU/100mL			350	5	24	n/a	n/a
Total Metals		1	2			212	101	
Total Antimony (Sh)	µg/L	5 - 100 ¹	5 - 100 ²	64 <1	255 <2	348 <2	181 <1.0	236 <2
Total Antimony (Sb) Total Arsenic (As)	μg/L μg/L	5	5	<1	<2	<2	<1.0	<2
Total Barium (Ba)	μg/L	<u> </u>	1000	46	49	28	24.2	20
Total Beryllium (Be)	μg/L		0.15	<1	<2	<2	<1.0	<2
Total Bismuth (Bi)	μg/L			<2	<2	<2	<2.0	<2
Total Boron (B)	μg/L	1500 (29,000) ¹	1500	<50	10	14	<50	17
Total Cadmium (Cd)	μg/L	equation ¹	0.09	0.14	0.242	0.075	0.039	< 0.09
Total Characters (Ca)	µg/L	8.91		26000 <1	28600 <1	15900 <1	16900 <1.0	13000
Total Chromium (Cr) Total Cobalt (Co)	μg/L μg/L	0.91	8.9	4.8	5	<1	<0.40	<2 <1
Total Copper (Cu)	μg/L	2-4 ¹	2-4 ²	<2	2	2	1.66	2
Total Iron (Fe)	µg/L	300	300	1200	182	224	227	350
Total Lead (Pb)	μg/L	1-71	1-7 ²	< 0.5	<0.5	< 0.5	< 0.50	<0.5
Total Magnesium (Mg)	μg/L			4600	2800	3300	3030	2500
Total Manganese (Mn)	μg/L	varies 1	430	1200	509	94	77.5	122
Total Mickel (Nii)	μg/L	73 25-150 ¹	73 25-150 ²	<2 12	<2 16	<2 6	<2.0 3	<2 3
Total Nickel (Ni) Total Phosphorus (P)	μg/L μg/L	25-150	25-150-	<100	140	30	<100	1.5
Total Potassium (K)	μg/L			2200	1500	1700	1750	1900
Total Selenium (Se)	μg/L	1	1	<1	<1	<1	<0.50	<1
Total Silver (Ag)	μg/L	0.25	0.25	<0.1	<0.1	<0.1	<0.10	<0.1
Total Sodium (Na)	μg/L			140000	160000	49600	55200	46600
Total Strontium (Sr) Total Thallium (TI)	μg/L		21000	110 <0.1	99	66	64.5	50 <0.1
rrotar mallium (TI)	μg/L	0.8	0.8	<0.1	<0.1 <2	<0.1	<0.10 <2.0	<0.1
		II I				^_		5
Total Tin (Sn)	μg/L			<2	4	3) i
		 15 (33) ¹			4 0.2	3 0.6	3.1 0.47	0.8
Total Tin (Sn) Total Titanium (Ti) Total Uranium (U) Total Vanadium (V)	µg/L µg/L µg/L µg/L	15 (33) ¹	 15 120	<2 0.15 <2	0.2 <2	0.6 <2	3.1 0.47 <2.0	0.8 <2
Total Tin (Sn) Total Titanium (Ti) Total Uranium (U) Total Vanadium (V) Total Zinc (Zn)	μg/L μg/L μg/L μg/L μg/L	15 (33) ¹ dissolved only	 15 120 7	<2 0.15 <2 36	0.2 <2 45	0.6 <2 22	3.1 0.47 <2.0 13.6	0.8 <2 12
Total Tin (Sn) Total Titanium (Ti) Total Uranium (U) Total Vanadium (V) Total Zinc (Zn) Total Mercury (Hg)	µg/L µg/L µg/L µg/L	15 (33) ¹	 15 120	<2 0.15 <2	0.2 <2	0.6 <2	3.1 0.47 <2.0	0.8 <2
Total Tin (Sn) Total Titanium (Ti) Total Uranium (U) Total Vanadium (V) Total Zinc (Zn)	µg/L µg/L µg/L µg/L µg/L ug/L	15 (33) ¹ dissolved only	 15 120 7	<2 0.15 <2 36	0.2 <2 45	0.6 <2 22	3.1 0.47 <2.0 13.6	0.8 <2 12
Total Tin (Sn) Total Titanium (Ti) Total Uranium (U) Total Vanadium (V) Total Zinc (Zn) Total Mercury (Hg) Hydrocarbons	μg/L μg/L μg/L μg/L μg/L	15 (33) ¹ dissolved only 0.026	15 120 7 0.026	<2 0.15 <2 36 n/a	0.2 <2 45 n/a	0.6 <2 22 n/a	3.1 0.47 <2.0 13.6 <0.013	0.8 <2 12 n/a
Total Tin (Sn) Total Titanium (Ti) Total Uranium (U) Total Vanadium (V) Total Zinc (Zn) Total Mercury (Hg) Hydrocarbons Benzene	µg/L µg/L µg/L µg/L ug/L ug/L	15 (33) ¹ dissolved only 0.026	7 0.026	<2 0.15 <2 36 n/a n/a	0.2 <2 45 n/a	0.6 <2 22 n/a	3.1 0.47 <2.0 13.6 <0.013	0.8 <2 12 n/a
Total Tin (Sn) Total Titanium (Ti) Total Uranium (U) Total Vanadium (V) Total Zinc (Zn) Total Mercury (Hg) Hydrocarbons Benzene Toluene Ethylbenzene Xylene (Total)	µg/L µg/L µg/L µg/L µg/L ug/L mg/L mg/L mg/L	15 (33) ¹ dissolved only 0.026	15 120 7 0.026 2.1 0.77	<2 0.15 <2 36 n/a n/a n/a n/a n/a	0.2 <2 45 n/a n/a n/a n/a n/a	0.6 <2 22 n/a n/a n/a n/a n/a n/a n/a	3.1 0.47 <2.0 13.6 <0.013 n/a n/a n/a	0.8
Total Tin (Sn) Total Titanium (Ti) Total Uranium (U) Total Vanadium (V) Total Zinc (Zn) Total Mercury (Hg) Hydrocarbons Benzene Toluene Ethylbenzene Xylene (Total) C6-C10 (less BTEX)	µg/L µg/L µg/L µg/L µg/L µg/L ug/L mg/L mg/L mg/L mg/L mg/L mg/L	 15 (33) ¹ dissolved only 0.026 0.037 0.002 0.09 	15 120 7 0.026 2.1 0.77 0.32 0.33	<2 0.15 <2 36 n/a n/a n/a n/a n/a	0.2 <2 45 n/a n/a n/a n/a n/a	0.6 <2 22 n/a n/a n/a n/a n/a n/a n/a	3.1 0.47 <2.0 13.6 <0.013 n/a n/a n/a n/a	0.8
Total Tin (Sn) Total Titanium (Ti) Total Uranium (U) Total Vanadium (V) Total Zinc (Zn) Total Mercury (Hg) Hydrocarbons Benzene Toluene Ethylbenzene Xylene (Total) C6-C10 (less BTEX) >C10-C16 Hydrocarbons	µg/L µg/L µg/L µg/L µg/L µg/L ug/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	15 (33) ¹ dissolved only 0.026 0.37 0.002 0.09	15 120 7 0.026 2.1 0.77 0.32 0.33	<2 0.15 <2 36 n/a n/a n/a n/a n/a n/a	0.2 <2 45 n/a n/a n/a n/a n/a n/a n/a n/a	0.6 <2 22 n/a n/a n/a n/a n/a n/a n/a n/a n/a	3.1 0.47 <2.0 13.6 <0.013 n/a n/a n/a n/a n/a	0.8 <2 12 n/a <0.001 <0.001 <0.002 <0.01 <0.005
Total Tin (Sn) Total Titanium (Ti) Total Uranium (U) Total Vanadium (V) Total Zinc (Zn) Total Mercury (Hg) Hydrocarbons Benzene Toluene Ethylbenzene Xylene (Total) C6-C10 (less BTEX) >C10-C16 Hydrocarbons >C16-C21 Hydrocarbons	µg/L µg/L µg/L µg/L µg/L µg/L mg/L mg/L	15 (33) ¹ dissolved only 0.026 0.37 0.002 0.09	2.1 0.77 0.026	<2 0.15 <2 36 n/a n/a n/a n/a n/a n/a n/a	0.2 <2 45 n/a n/a n/a n/a n/a n/a	0.6 <2 22 n/a	3.1 0.47 <2.0 13.6 <0.013 n/a n/a n/a n/a n/a	0.8
Total Tin (Sn) Total Titanium (Ti) Total Uranium (U) Total Vanadium (V) Total Zinc (Zn) Total Mercury (Hg) Hydrocarbons Benzene Toluene Ethylbenzene Xylene (Total) C6-C10 (less BTEX) >C16-C21 Hydrocarbons >C21-C32 Hydrocarbons >C21-C32 Hydrocarbons	µg/L µg/L µg/L µg/L µg/L µg/L ug/L mg/L		15 120 7 0.026 2.1 0.77 0.32 0.33	<2 0.15 <2 36 n/a n/a n/a n/a n/a n/a n/a n/a n/a	0.2 <2 45 n/a	0.6 <2 2 7 n/a	3.1 0.47 <2.0 13.6 <0.013 n/a n/a n/a n/a n/a n/a n/a	0.8 <2 12 n/a <0.001 <0.001 <0.001 <0.002 <0.01 <0.05 <0.05 <0.1
Total Tin (Sn) Total Titanium (Ti) Total Uranium (U) Total Vanadium (V) Total Zinc (Zn) Total Mercury (Hg) Hydrocarbons Benzene Toluene Ethylbenzene Xylene (Total) C6-C10 (less BTEX) >C10-C16 Hydrocarbons >C16-C21 Hydrocarbons	µg/L µg/L µg/L µg/L µg/L µg/L mg/L mg/L	15 (33) ¹ dissolved only 0.026 0.37 0.002 0.09	2.1 0.77 0.026	<2 0.15 <2 36 n/a n/a n/a n/a n/a n/a n/a n/a n/a	0.2 <2 45 n/a	0.6 <2 22 n/a	3.1 0.47 <2.0 13.6 <0.013 n/a n/a n/a n/a n/a n/a n/a	0.8 <2 12 n/a <0.001 <0.001 <0.002 <0.01 <0.05 <0.1 <0.1
Total Tin (Sn) Total Titanium (Ti) Total Uranium (U) Total Vanadium (V) Total Zinc (Zn) Total Mercury (Hg) Hydrocarbons Benzene Toluene Ethylbenzene Xylene (Total) C6-C10 (less BTEX) >C16-C21 Hydrocarbons >C21-C32 Hydrocarbons Modified TPH (Tier 1)	µg/L µg/L µg/L µg/L µg/L µg/L ug/L mg/L		15 120 7 0.026 2.1 0.77 0.32 0.33	<2 0.15 <2 36 n/a n/a n/a n/a n/a n/a n/a n/a n/a	0.2 <2 45 n/a	0.6 <2 2 7 n/a	3.1 0.47 <2.0 13.6 <0.013 n/a n/a n/a n/a n/a n/a n/a	0.8 <2 12 n/a <0.001 <0.001 <0.001 <0.002 <0.01 <0.05 <0.05 <0.1

Table 1:	Nine Mile	e River Surface	· Water Samplir	a Results

	esults					FBWHT SW7		
Comments		Compariso	n Criteria	Kingswood Subdivision				
Parameters	Units	CCME FAL ¹	NS EQS ²	11-Aug-2014	3-Jun-2015	22-Nov-2016	17-Nov-2020	22-Aug-2023
Field Measured Parameters								
Field TDS	mg/L			39		39.65		18
Field pH	pH units	6.5 - 9.0	6.5 - 9.0	7.24		6.14 61.1		34
Specific Conductance Field Temperature	umho/cm °C			19.84		7.6		20.2
Colour	TCU			19.04		40.1		20.2
Dissolved Oxygen % Saturation	%			43.1		94		
Dissolved Oxygen	mg/L	Min 6.5 or 9.5 ¹		3.92		11.3		
General Parameters								
pH (lab measured)	pН	6.5 - 9.0	6.5 - 9.0	6.38	5.68	5.73	5.56	5.94
Reactive Silica (SiO ₂)	mg/L			1.6	1.7	3.5	3.4	3.6
Chloride (Cl)	mg/L	120 (640) ¹	120	13	7	12	12	6
Fluoride (F) Sulphate (SO ₄)	mg/L mg/L	0.12	0.12 128	n/a <2	<0.1 2	<0.12 3	n/a <2	<0.12 <2
Alkalinity (Total as CaCO ₃)	mg/L			<1	~ 5	< 5	<5	15
Colour	TCU			89	110	77	100	99.7
Turbidity	NTU	narrative		0.33	3.5	0.8	1.8	<0.50
Conductivity	μS/cm			58	41	60	52	40
Nitrite + Nitrate	mg/L			<0.05	<0.05	<0.05	0.05	<0.05
Nitrate (N)	mg/L	2.9 (120) ¹	2.9	< 0.05	<0.05	<0.05	0.05	< 0.05
Nitrite (N)	mg/L	0.06	0.06	<0.01	<0.05	<0.05	<0.01	< 0.05
Ammonia (as N)	mg/L	varies 1	varies 2	n/a	<0.03	<0.03	<0.05	<0.03
Total Organic Carbon (C) Orthophosphate (P)	mg/L mg/L			6.9 <0.01	11.4 <0.01	14.7 <0.01	12 <0.01	19.4 <0.01
Total Suspended Solids (TSS)	mg/L	narrative		<1	n/a	<5	n/a	n/a
Hardness (CaCO ₃)	mg/L			7.7	5.6	8.2	8	6.6
Lab Calculated Parameters								
Anion Sum	me/L			0.36	0.24	0.4	0.34	0.47
Cation Sum	me/L			0.51	0.38	0.58	0.51	0.46
Ion Balance (% Difference)	%			17.2	22.2	18.1	20	1.5
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L			<1	<5	<5	<1	15
Carb. Alkalinity (calc. as CaCO ₃) Hydroxide	mg/L			<1 n/a	<10 <5	<10 <5	<1 n/a	<10 <5
Calculated TDS	mg/L mg/L			26	17	27	26	24
Langelier Index (@ 20C)	- IIIg/L			nc	-4.93	-4.74	NC NC	-4.15
Langelier Index (@ 4C)	-			nc	-5.25	-5.06	NC	-4.47
Saturation pH (@ 20C)	-			nc	10.6	10.5	NC	10.1
Saturation pH (@ 4C)	-			nc	10.9	10.8	NC	10.4
Bacteriogical Parameters								
Fecal Coliforms	CFU/100mL			1 >2500	25 255	2 4	n/a	n/a
Total Coliforms E. Coli	CFU/100mL CFU/100mL			>2500	10	1	n/a n/a	n/a n/a
Total Metals	OF OF TOOTHE			-10	10	·	11/0	11/0
Total Aluminum (AI)	μg/L	5 - 100 ¹	5 - 100 ²	170	292	349	306	391
Total Antimony (Sb)	μg/L		9	<1	<2	<2	<1.0	<2
Total Arsenic (As)	μg/L	5	5	<1	<2	<2	<1.0	<2
Total Barium (Ba)	μg/L		1000	7	7	9	8	7
Total Beryllium (Be) Total Bismuth (Bi)	μg/L		0.15	<1 <2	<2 <2	<2 <2	<1.0 <2.0	<2 <2
Total Boron (B)	μg/L μg/L	1500 (29,000) ¹	1500	<50	8	8	<50	6
Total Cadmium (Cd)	μg/L	equation ¹	0.09	0.05	<0.017	<0.017	0.018	<0.09
Total Calcium (Ca)	μg/L	i		2100	1600	2300		1800
Total Chromium (Cr)		1				<1	2030	
r. o.a. omomum (or)	μg/L	8.91	8.9	<1	<1	<u> </u>	2050 <1.0	<2
Total Cobalt (Co)	μg/L μg/L	8.91	1	<0.4	<1 <1	<1		
Total Cobalt (Co) Total Copper (Cu)		 2-4 ¹	1 2-4 ²	<0.4 2.6	<1 <1	<1 <1	<1.0 <0.40 0.52	<2 <1 <2
Total Cobalt (Co) Total Copper (Cu) Total Iron (Fe)	μg/L	2-4 ¹ 300	1 2-4 ² 300	<0.4	<1 <1 229	<1	<1.0 <0.40 0.52 192	<2 <1
Total Cobalt (Co) Total Copper (Cu) Total Iron (Fe) Total Lead (Pb)	µg/L µg/L µg/L µg/L	2-4 ¹ 300 1-7 ¹	1 2-4 ² 300 1-7 ²	<0.4 2.6 210 <0.5	<1 <1 229 0.6	<1 <1 218 <0.5	<1.0 <0.40 0.52 192 0.52	<2 <1 <2 394 <0.5
Total Cobalt (Co) Total Copper (Cu) Total Iron (Fe) Total Lead (Pb) Total Magnesium (Mg)	µg/L µg/L µg/L µg/L µg/L	2-4 ¹ 300 1-7 ¹	1 2-4 ² 300 1-7 ²	<0.4 2.6 210 <0.5 590	<1 <1 229 0.6 400	<1 <1 218 <0.5 600	<1.0 <0.40 0.52 192 0.52 597	<2 <1 <2 394 <0.5 500
Total Cobalt (Co) Total Copper (Cu) Total Iron (Fe) Total Lead (Pb) Total Magnesium (Mg) Total Manganese (Mn)	µg/L µg/L µg/L µg/L µg/L	2-4 ¹ 300 1-7 ¹ varies ¹	1 2-4 ² 300 1-7 ² 430	<0.4 2.6 210 <0.5 590	<1 <1 229 0.6 400 23	<1 <1 218 <0.5 600 22	<1.0 <0.40 0.52 192 0.52 597 20.8	<2 <1 <2 394 <0.5 500 31
Total Cobalt (Co) Total Copper (Cu) Total Iron (Fe) Total Lead (Pb) Total Magnesium (Mg) Total Manganese (Mn) Total Molybdenum (Mo)	µg/L µg/L µg/L µg/L µg/L µg/L	2-4 ¹ 300 1-7 ¹ varies ¹ 73	1 2-4 ² 300 1-7 ² 430 73	<0.4 2.6 210 <0.5 590 10 <2	<1 <1 229 0.6 400 23 <2	<1 <1 218 <0.5 600 22 <2	<1.0 <0.40 0.52 192 0.52 597 20.8 <2.0	<2 <1 <2 394 <0.5 500 31 <2
Total Cobalt (Co) Total Copper (Cu) Total Iron (Fe) Total Lead (Pb) Total Magnesium (Mg) Total Manganese (Mn)	µg/L µg/L µg/L µg/L µg/L	2-4 ¹ 300 1-7 ¹ varies ¹	1 2-4 ² 300 1-7 ² 430	<0.4 2.6 210 <0.5 590	<1 <1 229 0.6 400 23	<1 <1 218 <0.5 600 22	<1.0 <0.40 0.52 192 0.52 597 20.8	<2 <1 <2 394 <0.5 500 31
Total Cobalt (Co) Total Copper (Cu) Total Iron (Fe) Total Lead (Pb) Total Magnesium (Mg) Total Manganese (Mn) Total Molybdenum (Mo) Total Nickel (Ni)	µg/L µg/L µg/L µg/L µg/L µg/L µg/L	2-4 ¹ 300 1-7 ¹ varies ¹ 73 25-150 ¹	1 2-4 ² 300 1-7 ² 430 73 25-150 ²	<0.4 2.6 210 <0.5 590 10 <2 <2 <2	<1 <1 229 0.6 400 23 <2 <2	<1 <1 218 <0.5 600 22 <2 <2	<1.0 <0.40 0.52 192 0.52 597 20.8 <2.0 <2.0	<2 <1 <2 394 <0.5 500 31 <2 <2
Total Cobalt (Co) Total Copper (Cu) Total Iron (Fe) Total Lead (Pb) Total Magnesium (Mg) Total Manganese (Mn) Total Molybdenum (Mo) Total Nickel (Ni) Total Phosphorus (P) Total Potal Selenium (Se)	µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L	2-4 ¹ 300 1-7 ¹ varies ¹ 73 25-150 ¹ 1	1 2-4 ² 300 1-7 ² 430 73 25-150 ² 1	<0.4 2.6 210 <0.5 590 10 <2 <2 <2 240 150 <1	<1 <1 <1 229 0.6 400 23 <2 <2 <2 190 400 <1	<1 <1 218 <0.5 600 22 <2 <2 30 500 <1	<1.0 <0.40 0.52 192 0.52 597 20.8 <2.0 <100 411 <0.50	<2 <1 <2 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50
Total Cobalt (Co) Total Copper (Cu) Total Iron (Fe) Total Lead (Pb) Total Manganese (Mn) Total Molybdenum (Mo) Total Mickel (Ni) Total Phosphorus (P) Total Potassium (K) Total Selenium (Se) Total Silver (Ag)	µg/L	2-4 ¹ 300 1.7 ¹ varies ¹ 73 25-150 ¹ 1 0.25	1 2-4 ² 300 1-7 ² 430 73 25-150 ² 1 0.25	<0.4 2.6 210 <0.5 590 10 <2 <2 240 150 <1 <0.1	<1 <1 <1 229 0.6 400 23 <2 <2 190 400 <1 <1 <0.1	<1 <1 <1 218 <0.5 600 22 <2 <2 <2 <1 <0.1	<1.0 <0.40 0.52 192 0.52 597 20.8 <2.0 <100 411 <0.50 <0.10	<2 <1 <2 <394 <0.5 500 31 <2 <2 0.86 500 <1 <0.1 <0.1
Total Cobalt (Co) Total Copper (Cu) Total Iron (Fe) Total Iron (Te) Total Manganese (Mn) Total Manganese (Mn) Total Millor (Ni) Total Millor (Ni) Total Phosphorus (P) Total Potassium (K) Total Selenium (Se) Total Selenium (Se) Total Soldium (Na)	µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L	2-4 ¹ 300 1-7 ¹ varies ¹ 73 25-150 ¹ 1 0.25	1 2-4 ² 300 1-7 ² 430 73 25-150 ² 1 0.25	<0.4 2.6 210 <0.5 590 10 <2 2 42 240 150 <1 7700	<1 <1 <1 229 0.6 400 23 <2 <2 190 400 <1 <1 <1 <1 <1 <1 <1 <1	<1 <1 <1 218 <0.5 600 22 <2 <2 30 500 <1 <0.1 8100	<1.0 <0.40 0.52 192 0.52 597 20.8 <2.0 <100 411 <0.50 <0.10 7710	<2 <1 <1 <2 394 <0.5 500 31 <2 0.86 500 <1 <0.5 500 500 60 60 60 60 60 60 60 60 60 60 60 60 6
Total Cobalt (Co) Total Copper (Cu) Total Copper (Cu) Total Iron (Fe) Total Lead (Pb) Total Magnesium (Mg) Total Manganese (Mn) Total Molybdenum (Mo) Total Nickel (Ni) Total Phosphorus (P) Total Potal Silver (K) Total Selenium (Se) Total Sodium (Na) Total Storntium (Na) Total Storntium (Na)	µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L	2-4 ¹ 300 11-7 ¹ varies ¹ 73 25-150 ¹ 1 0.25	1 2-4 ² 300 1-7 ² 430 73 25-150 ² 1 0.25 21000	<0.4 2.6 210 <0.5 590 10 <2 2 40 150 <1 <0.1 7700 9.8	<1 <1 <1 <29 0.6 400 23 <2 <2 <2 190 400 <1 <0.1 4800 8	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	<1.0 <0.40 0.52 192 0.52 597 20.8 <2.0 <2.0 <100 411 <0.50 <0.10 7710 9.6	<2 <1 <2 <394 <0.5 500 31 <2 <2 <2 0.86 500 <1 <0.1 5800 9
Total Cobalt (Co) Total Copper (Cu) Total Iron (Fe) Total Iron (Ph) Total Magnesium (Mg) Total Manganese (Mn) Total Mickel (Ni) Total Nickel (Ni) Total Phosphorus (P) Total Selenium (Se) Total Selenium (Se) Total Sodium (Na) Total Sodium (Na) Total Sodium (Na) Total Total Sodium (Na) Total Sodium (Na) Total Sodium (Na) Total Sodium (Na) Total Total Sodium (Na) Total Stalenium (Se)	µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L	2-4 ¹ 300 1.7 ¹ varies ¹ 73 25-150 ¹ 1 0.25 0.8	1 2-4 ² 300 1-7 ² 430 73 25-150 ² 1 0.25 21000 0.8	<0.4 2.6 210 <0.5 590 10 <2.2 <2 240 150 <1 <0.1 7700 9.8 <0.1	<1 <1 <1 <29 0.6 400 23 <2 <2 190 400 <1 <0.1 4800 8 <0.1	<1 <1 <1 <1 218 <0.5 600 22 <2 <2 <2 <0.1 8100 <11 <0.1 8100 <0.1 <0.1 <0.1 <0.1	<1.0 <0.40 0.52 192 0.52 597 20.8 <2.0 <100 411 <0.50 <0.10 7710 9.6 <0.10	<2 <1 <1 <2 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1
Total Cobalt (Co) Total Copper (Cu) Total Copper (Cu) Total Iron (Fe) Total Lead (Pb) Total Magnesium (Mg) Total Manganese (Mn) Total Molybdenum (Mo) Total Nickel (Ni) Total Phosphorus (P) Total Potal Silver (K) Total Selenium (Se) Total Sodium (Na) Total Storntium (Na) Total Storntium (Na)	µg/L	2-4 ¹ 300 11-7 ¹ varies ¹ 73 25-150 ¹ 1 0.25	1 2-4 ² 300 1-7 ² 430 73 25-150 ² 1 0.25 21000	<0.4 2.6 210 <0.5 590 10 <2 2 40 150 <1 <0.1 7700 9.8	<1 <1 <1 <29 0.6 400 23 <2 <2 <2 190 400 <1 <0.1 4800 8	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	<1.0 <0.40 0.52 192 0.52 597 20.8 <2.0 <2.0 <100 411 <0.50 <0.10 7710 9.6	<2 <1 <2 <394 <0.5 500 31 <2 <2 <2 0.86 500 <1 <0.1 5800 9
Total Cobalt (Co) Total Copper (Cu) Total I copper (Cu) Total I cad (Pb) Total Manganese (Mn) Total Manganese (Mn) Total Molybdenum (Mo) Total Mickel (Ni) Total Phosphorus (P) Total Potassium (K) Total Selenium (Se) Total Selenium (Se) Total Strontium (Sr) Total Strontium (Sr) Total Strontium (Sr) Total Strontium (Sr) Total Total IIIIm (Tl) Total Total Total (Sr)	µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L	2-4 ¹ 300 1.7 ¹ varies ¹ 73 25-150 ¹ 1 0.25 0.8	1 2-4 ² 300 1-7 ² 430 73 25-150 ² 1 0.25 21000 0.8	<0.4 2.6 210 <0.5 590 10 <2 240 150 <1 7700 9.8 <0.1 <2	<1 <1 <1 <29 0.6 400 23 <22 <2 190 400 <11 <0.1 4800 8 <0.1 <2 <1 <2 <1 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <1 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <4 <0.1 <	<1 <1 <1 <1 218 <0.5 600 22 <2 <2 <2 30 500 500 <1 <0.1 8100 11 <0.1 <2	<1.0 <0.40 0.52 192 0.52 597 20.8 <2.0 <100 411 <0.50 <0.10 7710 9.6 <0.10 <2.0	<2 <1 <2 394 <0.5 500 31 <2 <2 <2 <1 <0.1 5800 9 <0.1 <2
Total Cobalt (Co) Total Copper (Cu) Total Iron (Fe) Total Iron (Te) Total Manganese (Mn) Total Manganese (Mn) Total Molybdenum (Mo) Total Mickel (Ni) Total Piosphorus (P) Total Potassium (K) Total Selenium (Se) Total Selenium (Se) Total Sodium (Na) Total Sodium (Na) Total Strontium (Sr) Total Thallium (Ti) Total Titanium (Ti) Total Titanium (U) Total Vanadium (U)	µg/L	2-4 ¹ 300 1.7 ¹ varies ¹ 73 25-150 ¹ 1 0.25 0.8 15 (33) ¹	1 2-4 ² 300 1-7 ² 430 73 25-150 ² 1 0.25 21000 0.8 15 120	<0.4 2.6 210 <0.5 590 10 <2.2 <2 240 150 <1,1 <0.1 7700 9.8 <0.1 <2 2.9 0.13 <2	<1 <1 <1 <29	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	<1.0 <0.40 0.52 192 0.52 597 20.8 <2.0 <100 411 <0.50 <0.10 7710 <2.0 <2.0 <2.0 <1.01 7710 <2.0 <2.0	<2 <1 <1 <2 <394 <0.5 500 31 <2 <2 <2 <4 <0.1 <0.86 500 <1 <0.1 5800 9 <0.1 <2 <3 <0.1 <2 <3 <0.1 <4 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1
Total Cobalt (Co) Total Copper (Cu) Total Icon (Fe) Total Lead (Pb) Total Magnesium (Mg) Total Magnesium (Mo) Total Molydenum (Mo) Total Molydenum (Mo) Total Posphorus (P) Total Potassium (K) Total Selenium (Se) Total Silver (Ag) Total Strontium (Sr) Total Strontium (Sr) Total Thallium (TI) Total Total Trainium (Ti) Total Trainium (U) Total Titanium (U) Total Vanadium (V) Total Zinc (Zn)	µg/L	2-4 ¹ 300 1-7 ¹ varies ¹ 73 25-150 ¹ 1 0.25 0.8 15 (33) ¹ dissolved only	1 2-4 ² 300 1-7 ² 430 73 25-150 ² 1 0.25 21000 0.8 15 120 7	<0.4 2.6 210 <0.5 590 10 <2 240 150 <1,1 7700 9.8 <0.1 <2 2.9 0.13 <2 15	<1 <1 <1 <29	<pre><1 <1 <1 218 <0.5 600 22 <2 <2 <2 30 500 <1 <0.1 8100 11 <0.1 <2 2 0.2 <2 <5</pre>	<1.0 <0.40 <0.40 0.52 192 0.52 597 20.8 <2.0 <2.0 <100 411 <0.50 <0.10 7710 9.6 <0.10 <2.0 <2.0 <2.0 <4.0 <5.0 <4.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0	<2 <1 <1 <2 394 <0.5 500 31 <2 <2 <2 <0.86 500 <1 5800 9 <0.1 <2 <1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <
Total Cobalt (Co) Total Copper (Cu) Total Iron (Fe) Total Iron (Pe) Total Magnesium (Mg) Total Magnesium (Mo) Total Molydenum (Mo) Total Nickel (Ni) Total Phosphorus (P) Total Potal Silver (Ag) Total Selenium (Se) Total Sodium (Na) Total Sodium (Na) Total Strontium (Sr) Total Thallium (Ti) Total Tin (Sn) Total Tin (Sn) Total Tin (Sn) Total Total Tin (U) Total Uranium (U) Total Uranium (U) Total Uranium (V) Total Mercury (Hg)	µg/L	2-4 ¹ 300 1.7 ¹ varies ¹ 73 25-150 ¹ 1 0.25 0.8 15 (33) ¹	1 2-4 ² 300 1-7 ² 430 73 25-150 ² 1 0.25 21000 0.8 15 120	<0.4 2.6 210 <0.5 590 10 <2.2 <2 240 150 <1,1 <0.1 7700 9.8 <0.1 <2 2.9 0.13 <2	<1 <1 <1 <29	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	<1.0 <0.40 0.52 192 0.52 597 20.8 <2.0 <100 411 <0.50 <0.10 7710 <2.0 <2.0 <2.0 <1.01 7710 <2.0 <2.0	<2 <1 <1 <2 <394 <0.5 500 31 <2 <2 <2 <4 <0.1 <0.86 500 <1 <0.1 5800 9 <0.1 <2 <3 <0.1 <2 <3 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1
Total Cobalt (Co) Total Copper (Cu) Total Iron (Fe) Total Iron (Pe) Total Lead (Pb) Total Magnesium (Mg) Total Magnesium (Mo) Total Mickel (Ni) Total Phosphorus (P) Total Potassium (K) Total Potassium (K) Total Selenium (Se) Total Sodium (Na) Total Storium (Na) Total Thallium (Ti) Total Tin (Sn) Total Tranium (U) Total Vanadium (V) Total Vanadium (V) Total Vanadium (V) Total Vanadium (V) Total Mydrocarbons	µg/L	2-4 ¹ 300 1.7 ¹ varies ¹ 73 25-150 ¹ 1 0.25 0.8 15 (33) ¹ dissolved only 0.026	1 2-4 ² 300 1.7 ² 430 73 25-150 ² 1 0.25 21000 0.8 15 120 7 0.026	<0.4 2.6 210 <0.5 590 10 <2 2 40 150 <1 <0.1 7700 9.8 <0.1 <2 2.9 0.13 <2 15 n/a	<1 <1 <1 <29	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	<1.0 <0.40 0.52 192 0.52 199 0.52 597 20.8 <2.0 <2.0 <100 411 <0.50 <0.10 7710 9.6 <0.10 <2.0 <0.10 <2.0 <0.10 <2.0 <0.10 <2.0 <0.10 <2.0 <0.10	<2 <1 <1 <2 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1
Total Cobalt (Co) Total Copper (Cu) Total Iron (Fe) Total Iron (Fe) Total Iron (Te) Total Manganese (Mn) Total Manganese (Mn) Total Molybdenum (Mo) Total Mickel (Ni) Total Phosphorus (P) Total Potassium (K) Total Selenium (Se) Total Selenium (Se) Total Silver (Ag) Total Sodium (Na) Total Strontium (Sr) Total Thallium (Ti) Total Tranium (Ti) Total Tranium (U) Total Vanadium (V) Total Vanadium (V) Total Zinc (Zn) Total Mercury (Hg) Hydrocarbons Benzene	µg/L	2-4 ¹ 300 1-7 ¹ varies ¹ 73 25-150 ¹ 1 0.25 0.8 15 (33) ¹ dissolved only 0.026	1 2-4 ² 300 1-7 ² 430 73 25-150 ² 1 0.25 21000 0.8 15 120 7 0.026	<0.4 2.6 210 <0.5 590 10 <2 2 40 150 <1 <0.1 7700 9.8 <0.1 <2 2.9 0.13 <2 15 n/a	<1 <1 <1 <29	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	<1.0 <0.40 0.52 192 0.52 192 0.52 597 20.8 <2.0 <100 411 <0.50 <0.10 7710 9.6 <0.10 <2.0 <2.0 <2.0 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.	<2 <1 <2 <394 <0.5 500 311 <2 <2 <2 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1
Total Cobalt (Co) Total Copper (Cu) Total Icon (Fe) Total Lead (Pb) Total Magnesium (Mg) Total Magnesium (Mg) Total Monder (Mg) Total Monder (Mg) Total Monder (Mg) Total Phosphorus (P) Total Potal Seium (Ks) Total Selenium (Se) Total Sodium (Na) Total Strontium (Sr) Total Strontium (Sr) Total Thallium (TI) Total Tin (Sn) Total Tinalium (TI) Total Tinalium (U) Total Vanadium (V) Total Anadium (V) Total Mercury (Hg) Hydrocarbons Benzene Totulem (SP)	µg/L	2-4 ¹ 300 1.7 ¹ varies ¹ 73 25-150 ¹ 1 0.25 0.8 15 (33) ¹ dissolved only 0.026	1 2-4 ² 300 1.7 ² 430 73 25-150 ² 1 0.25 21000 0.8 15 120 7 0.026	<0.4 2.6 210 <0.5 590 10 <2 2 40 150 <1 <0.1 7700 9.8 <0.1 <2 2.9 0.13 <2 15 n/a	<1 <1 <1 <29	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	<1.0 <0.40 0.52 192 0.52 199 0.52 597 20.8 <2.0 <2.0 <100 411 <0.50 <0.10 7710 9.6 <0.10 <2.0 <0.10 <2.0 <0.10 <2.0 <0.10 <2.0 <0.10 <2.0 <0.10	<2 <1 <1 <2 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1
Total Cobalt (Co) Total Copper (Cu) Total Iron (Fe) Total Iron (Pe) Total Idead (Pb) Total Magnesium (Mg) Total Manganese (Mn) Total Molybdenum (Mo) Total Mickel (Ni) Total Phosphorus (P) Total Photassium (K) Total Selenium (Se) Total Selenium (Se) Total Silver (Ag) Total Strontium (Sr) Total Strontium (Sr) Total Thallium (Ti) Total Trin (Sn) Total Titanium (Ti) Total Uranium (U) Total Vanadium (V) Total Zinc (Zn) Total Mercury (Hg) Hydrocarbons Benzene	µg/L	2-4 ¹ 300 1-7 ¹ varies ¹ 73 25-150 ¹ 1 0.25 0.8 15 (33) ¹ dissolved only 0.026	1 2-4 ² 300 1-7 ² 430 73 25-150 ² 1 0.25 21000 0.8 15 120 7 0.026 1 0.77	<0.4 2.6 210 <0.5 590 10 <2 2 40 150 <1 50.1 7700 9.8 <0.1 <2 9.9 0.13 <2 15 n/a n/a	<1 <1 <1 <29	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	<1.0 <0.40 <0.40 0.52 192 0.52 597 20.8 <2.0 <2.0 <100 411 <0.50 <0.10 7710 9.6 <0.10 <2.0 <2.0 <2.0 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00	<2 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1
Total Cobalt (Co) Total Copper (Cu) Total Icon (Fe) Total Lead (Pb) Total Magnesium (Mg) Total Magnesium (Mg) Total Manganese (Mn) Total Molyddenum (Mo) Total Posphorus (P) Total Potassium (K) Total Selenium (Se) Total Silver (Ag) Total Strontium (Sr) Total Strontium (Sr) Total Thallium (TI) Total Tin (Sn) Total Titanium (U) Total Titanium (U) Total Vanadium (V) Total Zinc (Zn) Total Mercury (Hg) Hydrocarbons Benzene Toluene Ethylbenzene Xylene (Total) Xylene (Total) C6-C10 (less BTEX)	µg/L	2-4 ¹ 300 1.7 ¹ varies ¹ 73 25-150 ¹ 1 0.25 0.8 15 (33) ¹ dissolved only 0.026 0.37 0.002 0.09	1 2-4 ² 300 1-7 ² 430 73 25-150 ² 1 0.25 21000 0.8 15 120 7 0.026 2.1 0.77 0.32	<0.4 2.6 210 <0.5 590 10 <2 240 150 <150 <150 <1 20 150 <1 20 150 <1 20 150 <1 20 150 <1 20 150 <1 20 150 <1 20 150 <1 20 150 <1 20 150 <1 20 150 <1 20 150 <1 20 150 20 20 20 20 20 20 20 20 20 20 20 20 2	<1 <1 <1 <29	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	<1.0 <0.40 0.52 192 0.52 192 0.52 597 20.8 <2.0 <100 411 <0.50 <0.10 7710 9.6 <0.10 <2.0 <2.0 <5.0 <0.17 <2.0 <5.0 <0.17 <1.0 <5.0 <0.17 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	<2 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1
Total Cobalt (Co) Total Copper (Cu) Total Iron (Fe) Total Iron (Pe) Total Lead (Pb) Total Magnesium (Mg) Total Magnesium (Mo) Total Molydenum (Mo) Total Nickel (Ni) Total Phosphorus (P) Total Posesium (K) Total Selenium (Se) Total Sodium (Na) Total Sodium (Na) Total Stontium (Sr) Total Thallium (Ti) Total Thallium (Ti) Total Tin (Sn) Total Tin (Sn) Total Total Tranium (U) Total Vanadium (V) Total Vanadium (V) Total Zhen (Zh) Hydrocarbons Benzene Toluene Ethylbenzene Xylene (Total) Ge-C10 (less BTEX) >-C10-C16 Hydrocarbons	µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L	2-4 ¹ 300 1-7 ¹ varies ¹ 73 25-150 ¹ 1 0.25 0.8 15 (33) ¹ dissolved only 0.026 0.37 0.002 0.009	1 2-4 ² 300 1-7 ² 430 73 25-150 ² 1 0.25 15 120 7 0.026 15 0.32 0.33	<0.4 2.6 210 <0.5 590 10 <2 240 150 <1 7700 9.8 <0.1 <2 2.9 0.13 <2 15 n/a n/a n/a n/a n/a	<1 <1 <1 <229	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	<1.0 <0.40 <0.52 192 0.52 192 0.52 597 20.8 <2.0 <2.0 <100 411 <0.50 <0.10 7710 9.6 <0.10 <2.0 <2.0 0.17 <2.0 <5.0 <0.10 <1.0 <7.0 0.10 <1.0 0.10 <1.0 0.10 <1.0 0.10 <1.0 0.10 <1.0 0.10 0.1	<2 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1
Total Cobalt (Co) Total Copper (Cu) Total Iron (Fe) Total Iron (Fe) Total Iron (Fe) Total Magnesium (Mg) Total Magnesium (Mg) Total Molydenum (Mo) Total Nickel (Ni) Total Phosphorus (P) Total Potassium (K) Total Potassium (K) Total Selenium (Se) Total Sodium (Na) Total Silver (Ag) Total Sodium (Na) Total Strin (Sn) Total Thallium (Ti) Total Trin (Sn) Total Trianium (U) Total Uranium (U) Total Vanadium (V) Total Vanadium (V) Total Vanadium (V) Total Mydrocarbons Benzene Totulene Ethylbenzene Xylene (Total) Co-C10 (less BTEX) >C10-C16 Hydrocarbons	µg/L	2-4 ¹ 300 1.7 ¹ varies ¹ 73 25-150 ¹ 1 0.25 0.8 15 (33) ¹ dissolved only 0.026 0.37 0.002 0.09	1 2-4 ² 300 1-7 ² 430 73 25-150 ² 1 0.25 21000 0.8 15 120 7 0.026 2.1 0.77 0.32 0.33	<0.4 2.6 210 <0.5 590 10 <2 <2 <2 240 150 <1 <0.1 7700 9.8 <0.1 <2 2.9 0.13 <2 15 n/a n/a n/a n/a n/a n/a n/a n/a	<1 <1 <1 <229	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	<1.0 <0.40 0.52 192 0.52 192 0.52 597 20.8 <2.0 <100 411 <0.50 <0.10 7710 9.6 <0.10 <2.0 <2.0 <2.0 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.00 <1.	<2 <1 <1 <2 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1
Total Cobalt (Co) Total Copper (Cu) Total Icon (Fe) Total Lead (Pb) Total Magnesium (Mg) Total Magnesium (Mg) Total Monganese (Mn) Total Molydenum (Mo) Total Posphorus (P) Total Posphorus (P) Total Potassium (K) Total Selenium (Se) Total Silver (Ag) Total Strontium (Sr) Total Strontium (Sr) Total Strontium (Sr) Total Thallium (TI) Total Tranium (U) Total Titanium (U) Total Zinc (Zn) Total Zinc (Zn) Total Zinc (Zn) Total Zinc (Zn) Total Control (Strontium (Sr) Total Titanium (U) Total Vanadium (V) Total Zinc (Zn) Total Mercury (Hg) Hydrocarbons Benzene Toluene Ethylbenzene Xylene (Total) C6-C10 (less BTEX) >C16-C21 Hydrocarbons >C21-C32 Hydrocarbons	µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L	2-4 ¹ 300 1.7 ¹ varies ¹ 73 25-150 ¹ 1 0.25 0.8 15 (33) ¹ dissolved only 0.026 0.09	1 2-4 ² 300 1-7 ² 430 73 25-150 ² 1 0.25 21000 0.8 15 120 7 0.026 1.5 0.32 0.33	<0.4 2.6 210 <0.5 590 10 <2 240 150 <1 <0.1 7700 9.8 <0.1 <2 2.9 0.13 <2 15 n/a n/a n/a n/a n/a n/a n/a n/a	<1	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	<1.0 <0.40 0.52 192 0.52 192 0.52 597 20.8 <2.0 <100 411 <0.50 <0.10 7710 9.6 <0.10 <2.0 <2.0 <5.0 <0.110 <4.0 17 10 10 10 10 10 10 10 10 10 10 10 10 10	<2 <1 <2 <1 <2 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1
Total Cobalt (Co) Total Copper (Cu) Total Iron (Fe) Total Iron (Fe) Total Lead (Pb) Total Magnesium (Mg) Total Magnesium (Mg) Total Molydenum (Mo) Total Molydenum (Mo) Total Phosphorus (P) Total Potassium (K) Total Selenium (Se) Total Silver (Ag) Total Sodium (Na) Total Strontium (Sr) Total Thallium (TI) Total Tinalium (TI) Total Tinalium (TI) Total Tinalium (V) Total Zenorum (Mg) Total Zenorum (Mg) Total Zenorum (Mg) Total Titanium (V) Total Vanadium (V) Total Zenorum (Mg) Hydrocarbons Benzene Toluene Ethylbenzene Xylene (Total) Cc6-C10 (less BTEX) >C10-C16 Hydrocarbons >C16-C21 Hydrocarbons Modified TPH (Tier 1)	µg/L	2-4 ¹ 300 1-7 ¹ varies ¹ 73 25-150 ¹ 1 0.25 0.8 15 (33) ¹ dissolved only 0.026 0.037 0.002 0.09	1 2-4 ² 300 1-7 ² 430 73 25-150 ² 1 0.25 21000 0.8 15 120 7 0.026 2.1 0.77 0.32 0.33	<0.4 2.6 210 <0.5 590 10 <22 <2 240 150 <0.1 7700 9.8 <0.1 <2 2.9 0.13 <2 15 n/a	<1 <1 <1 <229	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	<1.0 <0.40 <0.40 <0.52 192 0.52 192 0.52 597 20.8 <2.0 <2.0 <100 411 <0.50 <0.10 7710 9.6 <0.10 <2.0 <2.0 <5.0 <0.17 <2.0 <5.0 <0.013 n/a n/a n/a n/a n/a n/a n/a n/a n/a	<2 <1 <2 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1
Total Cobalt (Co) Total Copper (Cu) Total Icon (Fe) Total Lead (Pb) Total Magnesium (Mg) Total Magnesium (Mg) Total Monganese (Mn) Total Molydenum (Mo) Total Posphorus (P) Total Posphorus (P) Total Potassium (K) Total Selenium (Se) Total Silver (Ag) Total Strontium (Sr) Total Strontium (Sr) Total Strontium (Sr) Total Thallium (TI) Total Tranium (U) Total Titanium (U) Total Zinc (Zn) Total Zinc (Zn) Total Zinc (Zn) Total Zinc (Zn) Total Control (Strontium (Sr) Total Titanium (U) Total Vanadium (V) Total Zinc (Zn) Total Mercury (Hg) Hydrocarbons Benzene Toluene Ethylbenzene Xylene (Total) C6-C10 (less BTEX) >C16-C21 Hydrocarbons >C21-C32 Hydrocarbons	µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L	2-4 ¹ 300 1.7 ¹ varies ¹ 73 25-150 ¹ 1 0.25 0.8 15 (33) ¹ dissolved only 0.026 0.09	1 2-4 ² 300 1-7 ² 430 73 25-150 ² 1 0.25 21000 0.8 15 120 7 0.026 1.5 0.32 0.33	<0.4 2.6 210 <0.5 590 10 <2 240 150 <1 <0.1 7700 9.8 <0.1 <2 2.9 0.13 <2 15 n/a n/a n/a n/a n/a n/a n/a n/a	<1	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <	<1.0 <0.40 0.52 192 0.52 192 0.52 597 20.8 <2.0 <100 411 <0.50 <0.10 7710 9.6 <0.10 <2.0 <2.0 <5.0 <0.11 <7.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1	<2 <1 <2 <1 <2 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1

T-1-1-4-	A17 B471-	D:	141-4		D 14 -
I able 1:	Nine wille	River Surfa	ice water s	Sambiing	Results

Field Total Company Co	Table 1: Nine Mile River Surface Water Sampling Re		C	Comparison Critoria			FBWHT SW8			
First Table	Comments		Compariso	on Criteria		HRM Sewage	Freatment Plan	t		
Finish TIDS	Parameters	Units	CCME FAL ¹	NS EQS ²	3-Jun-2015	22-Nov-2016	17-Nov-2020	22-Aug-2023		
Fish pink pink with pink						00.05		40		
Specific Conductance			l	65-90	1			42		
Find Temporation Color								83		
Discribed Chygen is Salaration Si								21.4		
Dissolvent Chygens										
General Parameters										
prit prit pris pressured prit 65 - 9.0 6.5 - 8.8 6.37 8.41		mg/L	Min 6.5 or 9.5			10.4				
Reactive Sillor (Silor) mgit		рН	6.5 - 9.0	6.5 - 9.0	6.38	6.37	6.41	6.16		
Faceton (c)		· · · · · · · · · · · · · · · · · · ·						2.6		
Suphres (SQ)	Chloride (CI)	mg/L	120 (640) ¹	120	47	27	27	14		
Asalinty (Total as CaCOs)			0.12					<0.12		
TOU				128				4		
Trucidity	• • • • • • • • • • • • • • • • • • • •		1					5 125		
Constantivity ySCom			1					0.84		
Nate Nativale Nate (N) Nate (N								86		
Neate (N)								0.17		
Ammonia (as N)			2.9 (120) ¹	2.9	0.38	0.26	0.5	0.17		
Total Corpusin Carbonn (C)	Nitrite (N)	mg/L	0.06					< 0.05		
Ontopinophate P mgl.			varies 1	varies 2				< 0.03		
Total Suspended Solider (TSS) mg/L marative n/a <5 n/a Hardriness (CaCO.) mg/L 1.55 1.06 15 1.06 15 1.06 15 1.06 15 1.06 15 1.06 15 1.06 15 1.06 1	, ,							16.1		
Hardmost (CaCO ₂)			narretive					<0.01		
Lab Calculated Parameters	. , ,		nanauve					n/a 12.3		
Anion Sum		mg/L	,		10.5	10.0	13	12.3		
Cation Sum		me/L			1.55	0.95	1.06	0.59		
Blasch Akalinity (calc. as CaCO ₂) mg/L	Cation Sum				1.82	1.15	1.15	0.88		
Carb. Alfalanity (calc. as CacO ₂) mg/L	, ,							19.5		
Hydroxide								5		
Calculated TDS								<10		
Langelier Index (@ 20C)								<5 41		
Langelier Index (@ AC) - - - - - - - - -								-4.13		
Saturation pH (@ 20C) -			1					-4.45		
Saturation pH (@ 4C)			1					10.3		
Feed Coliforms CFUHOOML 190 18		-			10.5	10.5	10.1	10.6		
Total Coloriforms CFU/100mL .										
Coli			1					n/a		
Total Autrimum (A)			1					n/a n/a		
Total Authinium (A)		CF0/100ffiL			5	10	II/a	II/a		
Total Antimory (Sb)		μg/L	5 - 100 ¹	5 - 100 ²	295	342	332	367		
ТасІв Ваятішп (Ва) ТосІв Веупішт (Ве) Дарти (Ва) ТосІв Веупішт (Ве) Дарти (Ва) ТосІв Веупішт (Ве) Дарти (Ва) ТосІв Веупішт (Ва) Дарти (Варти				9		<2	<1.0	<2		
Total Beryllium (Be) Total Bismuth (Bi) µg/L ———————————————————————————————————		μg/L	5	5				<2		
Total Bismuth (B)								12		
Total Boron (B)								<2		
Total Cadmium (Cd)								<2 9		
Total Calcium (Ca) Total Chromium (Cr) Total Chornium (Cr) Total Copper (Cu) Total Co								<0.09		
Total Chromium (Cr)								3600		
Total Copper (Cu)			8.91	8.9				<2		
Total Iron (Fe)	Total Cobalt (Co)	μg/L			<1	<1	< 0.40	<1		
Total Lead (Pb)								<2		
Total Magnesium (Mg)		_				341	343	393		
Total Manganese (Mn)								<0.5 800		
Total Molybdenum (Mo)								42		
Total Nickel (Ni)								<2		
Total Phosphorus (P)								<2		
Total Selenium (Se) μg/L 1 1 <1 <1 <0.50 Total Silver (Ag) μg/L 0.25 0.25 <0.1 <0.11 <0.10 Total Solium (Na) μg/L 31100 Total Strontium (Sr) μg/L 21000 22 21 Total Thallium (Ti) μg/L 0.8 0.8 <0.1 <0.1 <0.10 Total Thallium (Ti) μg/L <2 <2 <2 <2.0 Total Titanium (Ti) μg/L 4 2 2.9 Total Titanium (U) μg/L 4 2 2.9 Total Zinc (Zn) μg/L 120 <2 <2 <2.0 Total Zinc (Zn) μg/L 120 <2 <2 <2.0 Total Wercury (Hg) μg/L 0.026 0.026 n/a n/a <0.013 Hydrocarbons mg/L 0.037 2.1 n/a n/a n/a <0.013 Hydrocarbons mg/L 0.09 0.32 n/a n/a n/a n/a <0.013 Ethylbenzene mg/L 0.09 0.32 n/a n/a n/a n/a <0.014 C6-C10 (less BTEX) mg/L n/a n/a n/a n/a C6-C10 (less BTEX) mg/L n/a n/a n/a n/a C7-C1-C3 Hydrocarbons mg/L n/a n/a n/a n/a C7-C1-C3 Hydrocarbons mg/L n/a n/a n/a n/a C8-ediment n/a n/a n/a n/a n/a Resemblance Comment n/a	Total Phosphorus (P)				200			0.94		
Total Silver (Ag)								1000		
Total Sodium (Na)								<1		
Total Strontium (Sr)				0.25				<0.1 12600		
Total Thallium (TI)				21000				12600		
Total Tin (Sn)								<0.1		
Total Titanium (Ti)								<2		
Total Uranium (U)	Total Titanium (Ti)				4		2.9	<3		
Total Zinc (Zn) Pg/L dissolved only 7 12 7 6.5								0.3		
Total Mercury (Hg) Ug/L 0.026 0.026 n/a n/a <0.013 Hydrocarbons Userial Mercury (Hg) Userial								<2		
Hydrocarbons mg/L 0.37 2.1 n/a n/a n/a n/a n/a 1.7								15 n/a		
Benzene mg/L 0.37 2.1 n/a n/a n/a n/a 70 Toluene mg/L 0.002 0.77 n/a n/a n/a n/a n/a Ethylbenzene mg/L 0.009 0.32 n/a n/a n/a n/a Xylene (Total) mg/L 0.33 n/a n/a n/a n/a Xylene (Total) mg/L n/a n/a n/a C6-C10 (less BTEX) mg/L n/a n/a n/a > C10-C16 Hydrocarbons mg/L n/a n/a n/a > C16-C21 Hydrocarbons mg/L n/a n/a n/a > C21-C32 Hydrocarbons mg/L n/a n/a n/a > C21-C32 Hydrocarbons mg/L n/a n/a n/a Modified TPH (Tier 1) mg/L 0.1-1.5 n/a n/a n/a Resemblance Comment n/a n/a n/a n/a n/a		ug/L	0.020	0.020	11/d	11/d	-0.013	11/d		
Toluene mg/L 0.002 0.77 n/a n/a n/a Ethylbenzene mg/L 0.09 0.32 n/a n/a n/a n/a Xylene (Total) mg/L 0.33 n/a n/a n/a n/a C6-C10 (less BTEX) mg/L n/a n/a n/a n/a >C10-C16 Hydrocarbons mg/L n/a n/a n/a n/a >C16-C21 Hydrocarbons mg/L n/a n/a n/a n/a >C21-C32 Hydrocarbons mg/L n/a n/a n/a n/a Modified TPH (Tier 1) mg/L 0.1-1.5² n/a n/a n/a Sediment n/a n/a n/a n/a Resemblance Comment n/a n/a n/a		mg/L	0.37	2.1	n/a	n/a	n/a	<0.001		
Ethylbenzene mg/L 0.09 0.32 n/a n/a n/a Xylene (Total) mg/L 0.33 n/a n/a n/a o/a C6-C10 (less BTEX) mg/L n/a n/a n/a n/a C10-C16 Hydrocarbons mg/L n/a n/a n/a n/a >C21-C32 Hydrocarbons mg/L n/a n/a n/a n/a Modified TPH (Tier 1) mg/L 0.1-1.5² n/a n/a n/a Sediment n/a n/a n/a n/a Resemblance Comment n/a n/a n/a n/a								<0.001		
C6-C10 (less BTEX) mg/L n/a n/a n/a >C10-C16 Hydrocarbons mg/L n/a n/a n/a >C16-C21 Hydrocarbons mg/L n/a n/a n/a >C21-C32 Hydrocarbons mg/L n/a n/a n/a Modified TPH (Tier 1) mg/L 0.1 - 1.5² n/a n/a n/a Sediment n/a n/a n/a n/a Resemblance Comment n/a n/a n/a	Ethylbenzene			0.32		n/a	n/a	<0.001		
xC10-C16 Hydrocarbons mg/L n/a n/a n/a xC16-C21 Hydrocarbons mg/L n/a n/a n/a xC21-C32 Hydrocarbons mg/L n/a n/a n/a Modified TPH (Tier 1) mg/L 0.1 - 1.5² n/a n/a n/a Sediment n/a n/a n/a n/a n/a Resemblance Comment n/a n/a n/a n/a								<0.002		
x C16-C21 Hydrocarbons mg/L n/a n/a n/a x C21-C32 Hydrocarbons mg/L n/a n/a n/a Modified TPH (Tier 1) mg/L 0.1-1.5² n/a n/a Sediment n/a n/a Resemblance Comment n/a n/a n/a								<0.01		
>C21-C32 Hydrocarbons mg/L n/a n/a n/a Modified TPH (Tier 1) mg/L 0.1 - 1.5 ² n/a n/a n/a Sediment n/a n/a n/a n/a Resemblance Comment n/a n/a n/a								<0.05		
Modified TPH (Tier 1) mg/L 0.1 - 1.5 ² n/a n/a n/a Sediment n/a n/a n/a Resemblance Comment n/a n/a n/a								<0.05 <0.1		
Sediment n/a n/a n/a Resemblance Comment n/a n/a n/a			1	0.1 - 1.5 2				<0.1		
Resemblance Comment n/a n/a n/a		g/L						Trace		
								NR		
Total II de	Return to Baseline at C32				n/a	n/a	n/a	Yes		

Table 1:	Nine Mile	River Surface	Water San	nplina Results

Table 1: Nine Mile River Surface Water Sampling Ro	Source				FBWH	IT SW9	
Comments		Compariso	on Criteria		Timberlea	Subdivision	
Parameters	Units	CCME FAL ¹	NS EQS ²	3-Jun-2015	22-Nov-2016	17-Nov-2020	22-Aug-2023
Field Measured Parameters					100.55		F.4
Field TDS Field pH	mg/L pH units	6.5 - 9.0	6.5 - 9.0		108.55 6.17		54
Specific Conductance	umho/cm				167		108
Field Temperature	°C				7.8		24.5
Colour	TCU				112.5		
Dissolved Oxygen % Saturation	%				84		
Dissolved Oxygen	mg/L	Min 6.5 or 9.5 ¹			10		
General Parameters							
pH (lab measured)	pH	6.5 - 9.0	6.5 - 9.0	6.69	6.85	6.79	6.39
Reactive Silica (SiO ₂)	mg/L	120 (640)1	400	106	3.9	5 39	4.5 19
Chloride (CI) Fluoride (F)	mg/L	120 (640) ¹ 0.12	120 0.12	106 0.2	36 <0.12	n/a	<0.12
Sulphate (SO ₄)	mg/L mg/L	0.12	128	9	7	7	4
Alkalinity (Total as CaCO ₃)	mg/L			6	9	12	9
Colour	TCU			23	66	110	11.1
Turbidity	NTU	narrative		5.6	3.8	5.5	3.26
Conductivity	μS/cm			401	165	160	111
Nitrite + Nitrate	mg/L			0.18	0.26	0.48	< 0.05
Nitrate (N)	mg/L	2.9 (120) ¹	2.9	0.18	0.26	0.48	< 0.05
Nitrite (N)	mg/L	0.06	0.06	<0.05	<0.05	<0.01	<0.05
Ammonia (as N)	mg/L	varies 1	varies 2	< 0.03	0.04	0.12	< 0.03
Total Organic Carbon (C)	mg/L			5.4	11.7	11	17.6
Orthophosphate (P) Total Suspended Solids (TSS)	mg/L	narretive		<0.01 n/a	<0.01 <5	<0.01 n/a	<0.01
Hardness (CaCO ₃)	mg/L mg/L	narrative		27.3	17.8	n/a 17	n/a 12.8
Lab Calculated Parameters	mg/L			21.3	17.0	17	12.0
Anion Sum	me/L			3.31	1.36	1.52	0.8
Cation Sum	me/L			3.79	1.47	1.5	1.19
Ion Balance (% Difference)	%			6.7	4	0.66	19.5
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L			6	9	12	9
Carb. Alkalinity (calc. as CaCO ₃)	mg/L			<10	<10	<1	<10
Hydroxide	mg/L			<5	<5	n/a	<5
Calculated TDS	mg/L			204	82	93	54
Langelier Index (@ 20C)	-			-3.21	-3.05	-2.76	-3.64
Langelier Index (@ 4C)	-			-3.53	-3.37	-3.01	-3.96
Saturation pH (@ 20C)	-			9.9 10.2	9.9	9.54 9.79	10 10.3
Saturation pH (@ 4C) Bacteriogical Parameters	<u> </u>			10.2	10.2	9.79	10.3
Fecal Coliforms	CFU/100mL			115	8	n/a	n/a
Total Coliforms	CFU/100mL			355	10	n/a	n/a
E. Coli	CFU/100mL			40	5	n/a	n/a
Total Metals							
Total Aluminum (AI)	μg/L	5 - 100 ¹	5 - 100 ²	155	332	374	452
Total Antimony (Sb)	μg/L		9	<2	<2	<1.0	<2
Total Regions (Re)	μg/L	5	5	<2	<2 24	1.2 24	3 18
Total Barium (Ba) Total Beryllium (Be)	μg/L		1000 0.15	34 <2	<2	<1.0	<2
Total Bismuth (Bi)	μg/L μg/L			<2	<2	<2.0	<2
Total Boron (B)	μg/L	1500 (29,000) ¹	1500	9	12	<50	10
Total Cadmium (Cd)	μg/L	equation ¹	0.09	0.02	<0.017	0.018	<0.09
Total Calcium (Ca)	μg/L			8800	5300	5300	3800
Total Chromium (Cr)	μg/L	8.91	8.9	<1	<1	<1.0	<2
Total Cobalt (Co)	μg/L		1	<1	<1	< 0.40	<1
Total Copper (Cu)	μg/L	2-4 ¹	2-4 ²	2	2	3.13	3
Total Iron (Fe)	μg/L	300	300	370	524	627	1030
Total Lead (Pb)	μg/L	1-71	1-7 ²	0.5	0.8	0.97	0.9
Total Magnesium (Mg)	μg/L			1300	1100	1010	800
Total Manganese (Mn)	μg/L	varies 1	430	57	40	75.7	107
Total Molybdenum (Mo)	μg/L	73 25-150 ¹	73 25-150 ²	<2 <2	<2 <2	<2.0 <2.0	<2 <2
Total Nickel (Ni) Total Phosphorus (P)	μg/L μg/L	25-150	25-150-	190	40	<100	0.92
Total Potassium (K)	μg/L μg/L			1000	1100	1030	1000
Total Selenium (Se)	μg/L	1	1	<1	<1	< 0.50	<1
Total Silver (Ag)	μg/L	0.25	0.25	<0.1	<0.1	<0.10	<0.1
Total Sodium (Na)	μg/L			73200	23700	25100	18700
Total Strontium (Sr)	μg/L		21000	37	24	21.2	17
Total Thallium (TI)	μg/L	0.8	0.8	<0.1	<0.1	<0.10	<0.1
Total Tin (Sn)	μg/L			<2	<2	<2.0	<2
Total Titanium (Ti)	μg/L	 15 (22) ¹		2	5	5.1	5
Total Uranium (U) Total Vanadium (V)	μg/L	15 (33) ¹	15	0.5 <2	1.1 <2	1.31 <2.0	2.4 <2
Total Zinc (Zn)	μg/L μg/L	dissolved only	120 7	6	6	7.3	<2 <5
Total Mercury (Hg)	μg/L ug/L	0.026	0.026	n/a	n/a	<0.013	n/a
Hydrocarbons	ug. L	0.020	5.520	11/54	11754	5.510	11/54
Benzene	mg/L	0.37	2.1	n/a	n/a	n/a	< 0.001
Toluene	mg/L	0.002	0.77	n/a	n/a	n/a	<0.001
Ethylbenzene	mg/L	0.09	0.32	n/a	n/a	n/a	<0.001
Xylene (Total)	mg/L		0.33	n/a	n/a	n/a	<0.002
C6-C10 (less BTEX)	mg/L			n/a	n/a	n/a	<0.01
>C10-C16 Hydrocarbons	mg/L			n/a	n/a	n/a	< 0.05
>C16-C21 Hydrocarbons	mg/L			n/a	n/a	n/a	< 0.05
>C21-C32 Hydrocarbons	mg/L		0.4.4.5.2	n/a	n/a	n/a	<0.1
Modified TPH (Tier 1) Sediment	mg/L		0.1 - 1.5 ²	n/a	n/a	n/a	<0.1
Resemblance Comment				n/a n/a	n/a n/a	n/a n/a	Trace NR
Return to Baseline at C32				n/a n/a	n/a n/a	n/a	Yes
				- 1/ C4	- 1/ CI	/	

Table 1: Nine Mile River Surface Water Sampling Results

Table 1: Nine Mile River Surface Water Sampling Re		Compariso	n Critorio	FBWHT SW10				
Comments		Compariso	n Criteria		Voyageur Estates			
Parameters	Units	CCME FAL ¹	NS EQS ²	3-Jun-2015	22-Nov-2016	17-Nov-2020	22-Aug-2023	
Field Measured Parameters					04		40	
Field TDS Field pH	mg/L pH units	6.5 - 9.0	6.5 - 9.0		91 6.43		49	
Specific Conductance	umho/cm				140.1		98	
Field Temperature	°C				6.9		22.00	
Colour	TCU				91.7			
Dissolved Oxygen % Saturation	%	NE: 0.5 0.51			73			
Dissolved Oxygen General Parameters	mg/L	Min 6.5 or 9.5 ¹			8.8			
pH (lab measured)	pH	6.5 - 9.0	6.5 - 9.0	6.88	6.96	6.92	6.36	
Reactive Silica (SiO ₂)	mg/L			1.1	2.2	1.6	2.6	
Chloride (CI)	mg/L	120 (640) ¹	120	31	25	28	17	
Fluoride (F)	mg/L	0.12	0.12	<0.1	<0.12	n/a	<0.12	
Sulphate (SO ₄)	mg/L		128	8	7	5	3	
Alkalinity (Total as CaCO ₃) Colour	mg/L TCU			<5 19	14 31	12 24	10 156	
Turbidity	NTU	narrative		4	4.7	1	0.67	
Conductivity	μS/cm			143	139	120	101	
Nitrite + Nitrate	mg/L			0.06	<0.05	0.1	0.06	
Nitrate (N)	mg/L	2.9 (120) ¹	2.9	0.06	< 0.05	0.1	0.06	
Nitrite (N)	mg/L	0.06	0.06	<0.05	<0.05	<0.01	<0.05	
Ammonia (as N)	mg/L	varies 1	varies 2	< 0.03	<0.03	<0.05	<0.03	
Total Organic Carbon (C) Orthophosphate (P)	mg/L mg/l			4.4 <0.01	9.9 <0.01	6.1 <0.01	9 <0.01	
Total Suspended Solids (TSS)	mg/L mg/L	narrative		n/a	<5	n/a	n/a	
Hardness (CaCO ₃)	mg/L			16.6	21.6	16	14.5	
Lab Calculated Parameters	<u> </u>							
Anion Sum	me/L			1.05	1.13	1.14	0.75	
Cation Sum	me/L			1.17	1.21	1.09	1.02	
Ion Balance (% Difference)	%			5.6	3.6	2.24	15.3	
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L			<5	14	12	10	
Carb. Alkalinity (calc. as CaCO ₃)	mg/L			<10	<10	<1	<10	
Hydroxide Calculated TDS	mg/L			<5 65	<5 67	n/a 66	<5 48	
Langelier Index (@ 20C)	mg/L			-3.29	-2.65	-2.66	-3.59	
Langelier Index (@ 4C)	-			-3.61	-2.97	-2.91	-3.91	
Saturation pH (@ 20C)	-			10.2	9.61	9.57	9.95	
Saturation pH (@ 4C)	=			10.5	9.93	9.83	10.3	
Bacteriogical Parameters								
Fecal Coliforms	CFU/100mL			125	21	n/a	n/a	
Total Coliforms E. Coli	CFU/100mL CFU/100mL			450 65	75 32	n/a n/a	n/a n/a	
Total Metals	CF0/100IIIL			0.5	32	11/4	11/4	
Total Aluminum (AI)	μg/L	5 - 100 ¹	5 - 100 ²	213	268	49.8	193	
Total Antimony (Sb)	μg/L		9	<2	<2	<1.0	<2	
Total Arsenic (As)	μg/L	5	5	<2	<2	<1.0	<2	
Total Barium (Ba)	μg/L		1000	11	12	8.5	10	
Total Beryllium (Be)	μg/L		0.15	<2	<2	<1.0	<2	
Total Bismuth (Bi)	µg/L	1500 (29,000) ¹	4500	<2	<2	<2.0	<2	
Total Boron (B) Total Cadmium (Cd)	μg/L	equation ¹	1500 0.09	26 <0.017	9 <0.017	<50 <0.010	353 <0.09	
Total Calcium (Ca)	μg/L μg/L	equation	0.09	5000	6500	4760	4000	
Total Chromium (Cr)	µg/L	8.91	8.9	<1	<1	<1.0	<2	
Total Cobalt (Co)	μg/L		1	<1	<1	< 0.40	<1	
Total Copper (Cu)	μg/L	2-4 ¹	2-4 ²	1	2	0.8	7	
Total Iron (Fe)	μg/L	300	300	266	308	71	412	
Total Lead (Pb)	μg/L	1-71	1-7 ²	< 0.5	0.7	< 0.50	0.7	
Total Magnesium (Mg)	μg/L	1		1000	1300	1070	1100	
Total Manganese (Mn)	μg/L	varies ¹	430 73	34 <2	28 <2	8.8 <2.0	39 <2	
ITotal Molyhdenum (Mo)				~ _	~_		~_	
Total Molybdenum (Mo) Total Nickel (Ni)	μg/L μg/L	25-150 ¹	25-150 ²	<2	<2	<2.0	<2	
Total Molybdenum (Mo) Total Nickel (Ni) Total Phosphorus (P)	μg/L μg/L μg/L				<2 40		<2 0.92	
Total Nickel (Ni)	μg/L	25-150 ¹	25-150 ²	<2		<2.0		
Total Nickel (Ni) Total Phosphorus (P) Total Potassium (K) Total Selenium (Se)	μg/L μg/L	25-150 ¹ 1	25-150 ² 1	<2 150 800 2	40 1600 <1	<2.0 <100 968 <0.50	0.92 1300 <1	
Total Nickel (Ni) Total Phosphorus (P) Total Potassium (K) Total Selenium (Se) Total Silver (Ag)	µg/L µg/L µg/L µg/L µg/L	25-150 ¹ 1 1 0.25	25-150 ² 1 0.25	<2 150 800 2 <0.1	40 1600 <1 <0.1	<2.0 <100 968 <0.50 <0.10	0.92 1300 <1 <0.1	
Total Nickel (Ni) Total Phosphorus (P) Total Potassium (K) Total Selenium (Se) Total Silver (Ag) Total Soldium (Na)	µg/L µg/L µg/L µg/L µg/L	25-150 ¹ 1 1 0.25	25-150 ² 1 0.25	<2 150 800 2 <0.1 18000	40 1600 <1 <0.1 16100	<2.0 <100 968 <0.50 <0.10 16900	0.92 1300 <1 <0.1 15000	
Total Nickel (Ni) Total Phosphorus (P) Total Potassium (K) Total Selenium (Se) Total Silver (Ag) Total Sodium (Na) Total Sodium (Na)	µg/L µg/L µg/L µg/L µg/L µg/L	25-150 ¹ 1 1 0.25	25-150 ² 1 0.25 21000	<2 150 800 2 <0.1 18000 19	40 1600 <1 <0.1 16100 24	<2.0 <100 968 <0.50 <0.10 16900 18.4	0.92 1300 <1 <0.1 15000 18	
Total Nickel (Ni) Total Phosphorus (P) Total Potassium (K) Total Selenium (Se) Total Silver (Ag) Total Sodium (Na) Total Sodium (Na) Total Strotum (Sr) Total To	µg/L µg/L µg/L µg/L µg/L µg/L µg/L	25-150 ¹ 1 0.25 0.8	25-150 ² 1 0.25 21000 0.8	<2 150 800 2 <0.1 18000 19 <0.1	40 1600 <1 <0.1 16100 24 <0.1	<2.0 <100 968 <0.50 <0.10 16900 18.4 <0.10	0.92 1300 <1 <0.1 15000 18 <0.1	
Total Nickel (Ni) Total Phosphorus (P) Total Potassium (K) Total Selenium (Se) Total Silver (Ag) Total Sodium (Na) Total Sodium (Na)	µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L	25-150 ¹ 1 1 0.25	25-150 ² 1 0.25 21000	<2 150 800 2 <0.1 18000 19	40 1600 <1 <0.1 16100 24	<2.0 <100 968 <0.50 <0.10 16900 18.4	0.92 1300 <1 <0.1 15000 18	
Total Nickel (Ni) Total Phosphorus (P) Total Potassium (K) Total Selenium (Se) Total Silver (Ag) Total Silver (Ag) Total Sitrontium (Sr) Total Thallium (TI) Total Tin (Sn)	µg/L µg/L µg/L µg/L µg/L µg/L µg/L	25-150 ¹ 1 0.25 0.8	25-150 ² 1 0.25 21000 0.8	<2 150 800 2 <0.1 18000 19 <0.1	40 1600 <1 <0.1 16100 24 <0.1 <2	<2.0 <100 968 <0.50 <0.10 16900 18.4 <0.10 <2.0	0.92 1300 <1 <0.1 15000 18 <0.1	
Total Nickel (Ni) Total Phosphorus (P) Total Potassium (K) Total Selenium (Se) Total Silver (Ag) Total Silver (Ag) Total Strontium (Na) Total Strontium (Sr) Total Thallium (TI) Total Tin (Sn) Total Titanium (TI) Total Uranium (U) Total Vanadium (V)	hg/L hg/L hg/L hg/L hg/L hg/L hg/L hg/L	25-150 ¹ 1 0.25 0.8 15 (33) ¹	25-150 ² 1 0.25 21000 0.8 15 120	<2 150 800 2 <0.1 18000 19 <0.1 <2 6 6 <0.1 <2 2	40 1600 <1 <0.1 16100 24 <0.1 <2 6 <0.1 <2	<2.0 <100 968 <0.50 <0.10 16900 18.4 <0.10 <2.0 <2.0 <0.10	0.92 1300 <1 <0.1 15000 18 <0.1 <2 <3 <0.2 <2	
Total Nickel (Ni) Total Phosphorus (P) Total Potassium (K) Total Selenium (Se) Total Silver (Ag) Total Silver (Ag) Total Silver (Ag) Total Strontium (Sr) Total Thallium (TI) Total Tin (Sn) Total Titanium (T) Total Uranium (U) Total Vanadium (U) Total Zinc (Zn)	µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L	25-150 ¹ 1 0.25 0.8 15 (33) ¹ dissolved only	25-150 ² 1 0.25 21000 0.8 15 120 7	<2 150 800 2 <0.1 18000 19 <0.1 <2 6 <0.1 <2 5	40 1600 <1 <0.1 16100 24 <0.1 <2 6 <0.1 <2 <5	<2.0 <100 968 <0.50 <0.10 16900 18.4 <0.10 <2.0 <2.0 <0.10 <2.0 <5.0	0.92 1300 <1 <0.1 15000 18 <0.1 <2 <3 <0.2 <2 43	
Total Nickel (Ni) Total Phosphorus (P) Total Potassium (K) Total Selenium (Se) Total Silver (Ag) Total Sodium (Na) Total Sodium (Na) Total Strontium (Sr) Total Thallium (TI) Total Tin (Sn) Total Tinaium (TI) Total Tinaium (TI) Total Uranium (U) Total Vanadium (V) Total Zeno (Zn) Total Inc (Zn) Total Inc (Zn)	hg/L hg/L hg/L hg/L hg/L hg/L hg/L hg/L	25-150 ¹ 1 0.25 0.8 15 (33) ¹	25-150 ² 1 0.25 21000 0.8 15 120	<2 150 800 2 <0.1 18000 19 <0.1 <2 6 6 <0.1 <2 2	40 1600 <1 <0.1 16100 24 <0.1 <2 6 <0.1 <2	<2.0 <100 968 <0.50 <0.10 16900 18.4 <0.10 <2.0 <2.0 <0.10	0.92 1300 <1 <0.1 15000 18 <0.1 <2 <3 <0.2 <2	
Total Nickel (Ni) Total Phosphorus (P) Total Potassium (K) Total Selenium (Se) Total Silver (Ag) Total Sodium (Na) Total Stodium (Na) Total Stodium (Ti) Total Thallium (Ti) Total Tin (Sn) Total Trianium (Ti) Total Uranium (U) Total Vanadium (V) Total Vanadium (V) Total Zinc (Zn) Total Mydrocarbons	µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L	25-150 ¹ 1 0.25 0.8 15 (33) ¹ dissolved only	25-150 ² 1 0.25 21000 0.8 15 120 7 0.026	<2 150 800 2 <0.1 18000 19 <0.1 <2 6 <0.1 <2 <5 n/a	40 1600 <1 <0.1 16100 24 <0.1 <2 6 <0.1 <2 <5 n/a	<2.0 <100 968 <0.50 <0.10 1890 18.4 <0.10 <2.0 <2.0 <0.10 <2.0 <0.10 <2.0 <0.10	0.92 1300 <1 <0.1 15000 18 <0.1 <2 <3 <0.2 <2 43 n/a	
Total Nickel (Ni) Total Phosphorus (P) Total Potassium (K) Total Selenium (Se) Total Silver (Ag) Total Silver (Ag) Total Stodium (Na) Total Strontium (Sr) Total Thallium (TI) Total Titanium (TI) Total Titanium (U) Total Vanadium (V) Total Vanadium (V) Total Vanadium (V) Total Mercury (Hg) Hydrocarbons Benzene	µg/L	25-150 ¹ 1 0.25 0.8 15 (33) ¹ dissolved only 0.026	25-150 ² 1 0.25 21000 0.8 15 120 7 0.026	<2 150 800 2 <0.1 18000 19 <0.1 <2 6 <0.1 <2 <5 n/a	40 1600 <1 <0.1 16100 24 <0.1 <2 6 <0.1 <2 5 n/a	<2.0 <100 968 <0.50 <0.10 16900 18.4 <0.10 <2.0 <2.0 <2.0 <5.0 <0.013	0.92 1300 <1 <0.1 15000 18 <0.1 <2 <3 <0.2 <2 43 n/a	
Total Nickel (Ni) Total Phosphorus (P) Total Phosphorus (P) Total Selenium (Se) Total Silver (Ag) Total Silver (Ag) Total Sodium (Na) Total Strontium (Sr) Total Thallium (Ti) Total Tin (Sn) Total Titanium (Ti) Total Uranium (U) Total Vanadium (V) Total Anadium (V) Total Mercury (Hg) Hydrocarbons Benzene Tolluene	µg/L	25-150 ¹ 1 0.25 0.8 15 (33) ¹ dissolved only 0.026	25-150 ² 1 0.25 21000 0.8 15 120 7 0.026	<2 150 8000 2 < 0.1 180000 19 < 0.1 < 2 6 < 0.11 < 2 < 5 n/a n/a n/a	40 1600 <1 <0.1 16100 24 <0.1 <2 6 <0.1 <2 <5 n/a	<2.0 <100 968 <0.50 <0.10 18.4 <0.10 <2.0 <2.0 <0.10 <2.0 <0.10	0.92 1300 <1 <0.1 15000 18 0.1 <2 <3 <0.2 <2 43 n/a	
Total Nickel (Ni) Total Phosphorus (P) Total Potassium (K) Total Selenium (Se) Total Silver (Ag) Total Sodium (Na) Total Stodium (Na) Total Strontium (Sr) Total Thallium (TI) Total Tranium (TI) Total Tranium (U) Total Vanadium (V) Total Vanadium (V) Total Vandum (Hg) Hydrocarbons Benzene	µg/L	25-150 ¹ 1 0.25 0.8 15 (33) ¹ dissolved only 0.026	25-150 ² 1 0.25 21000 0.8 15 120 7 0.026	<2 150 800 2 <0.1 18000 19 <0.1 <2 6 <0.1 <2 <5 n/a	40 1600 <1 <0.1 16100 24 <0.1 <2 6 <0.1 <2 5 n/a	<2.0 <100 968 <0.50 <0.10 16900 18.4 <0.10 <2.0 <2.0 <2.0 <5.0 <0.013	0.92 1300 <1 <0.1 15000 18 <0.1 <2 <3 <0.2 <2 43 n/a	
Total Nickel (Ni) Total Phosphorus (P) Total Potassium (K) Total Selenium (Se) Total Silver (Ag) Total Sodium (Na) Total Storitum (Sr) Total Storitum (Sr) Total Thallium (TI) Total Thallium (TI) Total Tin (Sn) Total Tin (Sn) Total Tinanium (U) Total Vanadium (V) Total Zinc (Zn) Total Mercury (Hg) Hydrocarbons Benzene Toluene Ethylbenzene	µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L	25-150 ¹ 1 0.25 0.8 15 (33) ¹ dissolved only 0.026 0.09	25-150 ² 1 0.25 21000 0.8 15 120 7 0.026	<2 150 8000 2 < 0.1 18000 19 < 0.1 < 2 6 < 0.1 < 2 < 5 n/a	40 1600 <1 <0.1 16100 24 <0.1 <2 6 <0.1 <2 <5 n/a n/a	<2.0 <100 968 <0.50 <0.10 1890 18.4 <0.10 <2.0 <0.10 <2.0 <0.10 <2.0 <0.10 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <	0.92 1300 1300 18 <0.1 15000 18 <0.1 <2 <3 <0.2 <42 43 n/a <0.001 <0.001 <0.001 <0.002 <0.01	
Total Nickel (Ni) Total Phosphorus (P) Total Phosphorus (P) Total Selenium (Se) Total Silver (Ag) Total Sodium (Na) Total Sodium (Na) Total Strontium (Sr) Total Thallium (TI) Total Tinalium (TI) Total Tinalium (TI) Total Tinalium (U) Total Vanadium (V) Total Vanadium (V) Total Zinc (Zn) Total Mercury (Hg) Hydrocarbons Benzene Toluene Ethylbenzene Xylene (Total) Ge-C10 (less BTEX) > C10-C16 Hydrocarbons	µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L	25-150 ¹ 1 0.25 0.8 15 (33) ¹ dissolved only 0.026 0.37 0.002 0.09	25-150 ² 1 0.25 21000 0.8 15 120 7 0.026 2.1 0.77 0.32 0.33	<2 150 8000 2 < 0.1 18000 19 < 0.11 < 2 6 < 0.11 < 2 < 0.11 < 2 < 0.11 < 2 n/a	40 1600 <1 <0.1 16100 24 <0.1 <2 6 <0.1 <2 <5 n/a n/a n/a	<2.0 <100 968 <0.50 <0.10 18.4 <0.10 <2.0 <0.10 <2.0 <0.10 <2.0 <1.0 <0.10 <1.0 <1.0 <1.0 <1.0 <1.0 <	0.92 1300 <1 <0.1 15000 18 <0.1 <2 <3 <0.2 <2 43 n/a <0.001 <0.001 <0.002 <0.001 <0.005	
Total Nickel (Ni) Total Phosphorus (P) Total Potassium (K) Total Selenium (Se) Total Silver (Ag) Total Sodium (Na) Total Stodium (Na) Total Stodium (Ti) Total Trallium (Ti) Total Trallium (Ti) Total Tranium (U) Total Vanadium (V) Total Vanadium (V) Total Zinc (Zn) Total Mercury (Hg) Hydrocarbons Benzene Toluene Ethylbenzene Xylene (Total) C6-C10 (less BTEX) >-C10-C16 Hydrocarbons >-C16-C21 Hydrocarbons	µg/L	25-150 ¹ 1 0.25 0.8 15 (33) ¹ dissolved only 0.026 0.37 0.002 0.09	25-150 ² 1 0.25 21000 0.8 15 120 7 0.026 2.1 0.77 0.32 0.33	<2 150 800 2 <0.1 1800 19 <0.1 <2 <5 0.1 <2 <5 n/a n/a n/a n/a n/a	40 1600 <1 16100 24 <0.1 <22 6 <0.1 <22 <5 n/a n/a n/a n/a n/a n/a n/a	<2.0 <100 <100 968 <0.50 <0.10 16900 18.4 <0.10 <2.0 <0.10 <2.0 <0.10 <2.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10	0.92 1300 <1 <0.1 15000 18 <0.1 <2 <3 <0.2 <2 43 n/a <0.001 <0.001 <0.002 <0.01 <0.005 <0.05	
Total Nickel (Ni) Total Phosphorus (P) Total Phosphorus (P) Total Potassium (K) Total Selenium (Se) Total Silver (Ag) Total Sodium (Na) Total Strontium (Sr) Total Thallium (TI) Total Tinalium (TI) Total Tinalium (TI) Total Tinalium (V) Total Zinc (Zn) Total Mercury (Hg) Hydrocarbons Benzene Toluene Ethylbenzene Xylene (Total) C6-C10 (less BTEX) >C16-C21 Hydrocarbons >C21-C32 Hydrocarbons	µg/L	25-150 ¹ 1 0.25 0.8 15 (33) ¹ dissolved only 0.026 0.37 0.002 0.09	25-150 ² 1 0.25 21000 0.8 15 120 7 0.026 2.1 0.77 0.32 0.33	<2 150 8000 2 < 0.1 18000 19 < 0.1 < 2 6 6 < 0.1 < 2 < 5 n/a	40 1600 40 16100 24 <0.1 <22 6 <0.1 <22 <5 n/a n/a n/a n/a n/a n/a n/a n/a n/a n/a	<2.0 <100 <100 968 <0.50 <0.10 16900 18.4 <0.10 <2.0 <2.0 <5.0 <0.013 n/a n/a n/a n/a n/a n/a n/a n/a	0.92 1300 <1 <0.1 15000 18 <0.1 <2 <3 <0.2 <2 43 n/a <0.001 <0.001 <0.002 <0.01 <0.005 <0.05 <0.05 <0.1	
Total Nickel (Ni) Total Phosphorus (P) Total Potassium (K) Total Selenium (Se) Total Silver (Ag) Total Sodium (Na) Total Sodium (Na) Total Strontium (Sr) Total Thallium (Ti) Total Tinalium (Ti) Total Tinalium (Ti) Total Tinalium (V) Total Vanadium (V) Total Vanadium (V) Total Zero (Zn) Total Mercury (Hg) Hydrocarbons Benzene Totuene Ethylbenzene Xylene (Total) C6-C10 (less BTEX) >C10-C16 Hydrocarbons >C16-C21 Hydrocarbons Modified TPH (Tier 1)	µg/L	25-150 ¹ 1 0.25 0.8 15 (33) ¹ dissolved only 0.026 0.37 0.002 0.09	25-150 ² 1 0.25 21000 0.8 15 120 7 0.026 2.1 0.77 0.32 0.33	<2 150 8000 2 < 0.1 18000 19 < 0.1 < 2 6 < 0.1 < 2 < 5 n/a	40 1600 1<1 16100 24 16100 24 162 6 17 16100 17 16100 17 16100 17 16100 17 16100 17 17 17 17 17 17 17 17 17 17 17 17 17	<2.0 <100 968 <0.50 <0.10 18.4 <0.10 <2.0 <2.0 <0.10 <2.0 <0.013 n/a n/a n/a n/a n/a	0.92 1300 1300 18 <0.1 15000 18 <0.1 <2 <3 <0.2 <42 43 n/a <0.001 <0.001 <0.001 <0.002 <0.01 <0.05 <0.05 <0.1 <0.1	
Total Nickel (Ni) Total Phosphorus (P) Total Phosphorus (P) Total Potassium (K) Total Selenium (Se) Total Silver (Ag) Total Sodium (Na) Total Strontium (Sr) Total Thallium (TI) Total Tinalium (TI) Total Titanium (U) Total Titanium (V) Total Zinc (Zn) Total Mercury (Hg) Hydrocarbons Benzene Toluene Ethylbenzene Xylene (Total) C6-C10 (less BTEX) >C16-C16 Hydrocarbons >C21-C32 Hydrocarbons	µg/L	25-150 ¹ 1 0.25 0.8 15 (33) ¹ dissolved only 0.026 0.37 0.002 0.09	25-150 ² 1 0.25 21000 0.8 15 120 7 0.026 2.1 0.77 0.32 0.33	<2 150 8000 2 < 0.1 18000 19 < 0.1 < 2 6 6 < 0.1 < 2 < 5 n/a	40 1600 40 16100 24 <0.1 <22 6 <0.1 <22 <5 n/a n/a n/a n/a n/a n/a n/a n/a n/a n/a	<2.0 <100 <100 968 <0.50 <0.10 16900 18.4 <0.10 <2.0 <2.0 <5.0 <0.013 n/a n/a n/a n/a n/a n/a n/a n/a	0.92 1300 <1 <0.1 15000 18 <0.1 <2 <3 <0.2 <2 43 n/a <0.001 <0.001 <0.002 <0.01 <0.005 <0.05 <0.05 <0.1	

incl turbid ditch water	Field Dup
SW10A	DUP
17-Nov-2020	17-Nov-2020
6.93	6.48
1.7	3.5
28	28
n/a	n/a
5 12	6 7
25	76
17	2.2
120 0.11	120 0.53
0.11	0.52
<0.01	0.01
0.08 5.8	0.13 9.9
< 0.01	0.02
n/a	n/a
18	16
1.14	1.09
1.14	1.1
0	0.46
12 <1	7
n/a	n/a
67	68
-2.6 -2.85	-3.29 -3.54
9.53	9.77
9.78	10
n/o	n/a
n/a n/a	n/a
n/a	n/a
796	338
<1.0	<1.0
<1.0	<1.0
13.1 <1.0	14.2 <1.0
<2.0	<2.0
<50	<50
<0.010 5030	0.021 4870
<1.0	<1.0
0.44	< 0.40
1.79 728	1.06 319
0.67	<0.50
1210	898
22.4	36.2
<2.0 <2.0	<2.0 <2.0
<100	<100
1140	937
<0.50 <0.10	<0.50 <0.10
16700	17100
20	18.3
<0.10 <2.0	<0.10
21.4	2.9
< 0.10	0.28
	<2.0
<2.0	6.0
	6.8 <0.013
<2.0 <5.0 <0.013	6.8 <0.013
<2.0 <5.0 <0.013	6.8 <0.013 n/a
<2.0 <5.0 <0.013	6.8 <0.013
<2.0 <5.0 <0.013 n/a n/a n/a n/a	6.8 <0.013 n/a n/a n/a n/a
<2.0 <5.0 <0.013 n/a n/a n/a n/a n/a	6.8 <0.013 n/a n/a n/a n/a n/a
<2.0 <5.0 <0.013 n/a n/a n/a n/a n/a n/a	6.8 <0.013 n/a n/a n/a n/a n/a n/a
<2.0 <5.0 <0.013 n/a n/a n/a n/a n/a	6.8 <0.013 n/a n/a n/a n/a n/a
<2.0 <5.0 <0.013 n/a n/a n/a n/a n/a n/a n/a n/a	6.8 <0.013 n/a n/a n/a n/a n/a n/a n/a n/a n/a n/
<2.0 <5.0 <0.013 n/a n/a n/a n/a n/a n/a n/a n/a n/a	6.8 <0.013 n/a n/a n/a n/a n/a n/a n/a n/a n/a n/
<2.0 <5.0 <0.013 n/a n/a n/a n/a n/a n/a n/a n/a	6.8 <0.013 n/a n/a n/a n/a n/a n/a n/a n/a n/a n/

Notes:

Values in light grey font are below the RDL.

n/a denotes parameter was not analyzed.

nc denotes parameter was not calculated.

NR denoted No Resemblance

Exceedances to the CCME FAL guidelines are shaded.

Exceedances to the NS EQS standards are bolded.

Canadian Council of Ministers of the Environment Freshwater Aquatic Life (CCME FAL) guidelines (as of January 2024 on CCME website)

Values in (brackets) are short-term guidelines

Ammonia: pH & temperature dependant; consult CCME Fact Sheet

Aluminum Guideline = 5 ug/L at pH < 6.5; or = 100 ug/L at pH ≥ 6.5

Boron: CCME CWQG for the Protection of Freshwater Aquatic Life = 29000 ug/L (short-term); 1500 ug/L (long-term).

 $\textit{Cadmium Guideline} = 0.04 \, \text{ug/L at } [\text{CaCO}_3] \, < 17 \, \text{mg/L}; \text{ use equation a } [\text{CaCO}_3] \, 17 \, \text{to } 280 \, \text{mg/L}; \text{ or } = 0.37 \, \text{ug/L at } [\text{CaCO}_3] \, > 280 \, \text{mg/L}; \text{ or } = 0.37 \, \text{ug/L at } [\text{CaCO}_3] \, > 280 \, \text{mg/L}; \text{ or } = 0.37 \, \text{ug/L at } [\text{CaCO}_3] \, > 280 \, \text{mg/L}; \text{ or } = 0.37 \, \text{ug/L at } [\text{CaCO}_3] \, > 280 \, \text{mg/L}; \text{ or } = 0.37 \, \text{ug/L at } [\text{CaCO}_3] \, > 280 \, \text{mg/L}; \text{ or } = 0.37 \, \text{ug/L at } [\text{CaCO}_3] \, > 280 \, \text{mg/L}; \text{ or } = 0.37 \, \text{ug/L at } [\text{CaCO}_3] \, > 280 \, \text{mg/L}; \text{ or } = 0.37 \, \text{ug/L at } [\text{CaCO}_3] \, > 280 \, \text{mg/L}; \text{ or } = 0.37 \, \text{ug/L at } [\text{CaCO}_3] \, > 280 \, \text{mg/L}; \text{ or } = 0.37 \, \text{ug/L at } [\text{CaCO}_3] \, > 280 \, \text{mg/L}; \text{ or } = 0.37 \, \text{ug/L at } [\text{CaCO}_3] \, > 280 \, \text{mg/L}; \text{ or } = 0.37 \, \text{ug/L at } [\text{CaCO}_3] \, > 280 \, \text{mg/L}; \text{ or } = 0.37 \, \text{ug/L at } [\text{CaCO}_3] \, > 280 \, \text{mg/L}; \text{ or } = 0.37 \, \text{ug/L at } [\text{CaCO}_3] \, > 280 \, \text{mg/L}; \text{ or } = 0.37 \, \text{ug/L at } [\text{CaCO}_3] \, > 280 \, \text{mg/L}; \text{ or } = 0.37 \, \text{ug/L at } [\text{CaCO}_3] \, > 280 \, \text{mg/L}; \text{ or } = 0.37 \, \text{ug/L at } [\text{CaCO}_3] \, > 280 \, \text{mg/L}; \text{ or } = 0.37 \, \text{ug/L at } [\text{CaCO}_3] \, > 280 \, \text{mg/L}; \text{ or } = 0.37 \, \text{ug/L at } [\text{CaCO}_3] \, > 280 \, \text{mg/L}; \text{ or } = 0.37 \, \text{ug/L at } [\text{CaCO}_3] \, > 280 \, \text{mg/L}; \text{ or } = 0.37 \, \text{ug/L at } [\text{CaCO}_3] \, > 280 \, \text{mg/L}; \text{ or } = 0.37 \, \text{ug/L at } [\text{CaCO}_3] \, > 280 \, \text{mg/L}; \text{ or } = 0.37 \, \text{ug/L at } [\text{CaCO}_3] \, > 280 \, \text{mg/L}; \text{ or } = 0.37 \, \text{ug/L at } [\text{CaCO}_3] \, > 280 \, \text{ug$

Chromium Guideline = For trivalent chromium (Cr(III))

 $Copper\ Guideline = 2\ ug/L\ at\ [CaCO_3] = 0\ - \\ 82\ mg/L; = varies\ at\ [CaCO_3] = 82\ - \\ 180\ mg/L; or = 4\ ug/L\ at\ [CaCO_3] > \\ 180\ mg/L; if\ hardness\ unknown\ use\ 2\ ug/L\ at\ [CaCO_3] = 82\ - \\ 180\ mg/L; or = 4\ ug/L\ at\ [CaCO_3] > \\ 180\ mg/L; or = 4\ ug/L\ at\ [C$ $\textit{Lead Guideline}: 1 \text{ ug/L at } [\text{CaCO}_3] = 0 - 60 \text{ mg/L}; = \text{varies at } [\text{CaCO}_3] = > 60 - 180 \text{ mg/L}; \text{ or } = 7 \text{ ug/L at } [\text{CaCO}_3] > 180 \text{ mg/L}; \text{ if hardness unknown use } 1 \text{ ug/L at } [\text{CaCO}_3] > 180 \text{ mg/L}; \text{ if hardness unknown use } 1 \text{ ug/L at } [\text{CaCO}_3] > 180 \text{ mg/L}; \text{ if hardness unknown use } 1 \text{ ug/L at } [\text{CaCO}_3] > 180 \text{ mg/L}; \text{ if hardness unknown use } 1 \text{ ug/L at } [\text{CaCO}_3] > 180 \text{ mg/L}; \text{ if hardness unknown use } 1 \text{ ug/L at } [\text{CaCO}_3] > 180 \text{ mg/L}; \text{ if hardness unknown use } 1 \text{ ug/L at } [\text{CaCO}_3] > 180 \text{ mg/L}; \text{ if hardness unknown use } 1 \text{ ug/L at } [\text{CaCO}_3] > 180 \text{ mg/L}; \text{ if hardness unknown use } 1 \text{ ug/L at } [\text{CaCO}_3] > 180 \text{ mg/L}; \text{ if hardness unknown use } 1 \text{ ug/L at } [\text{CaCO}_3] > 180 \text{ mg/L}; \text{ if hardness unknown use } 1 \text{ ug/L at } [\text{CaCO}_3] > 180 \text{ mg/L}; \text{ if hardness unknown use } 1 \text{ ug/L at } [\text{CaCO}_3] > 180 \text{ mg/L}; \text{ if hardness unknown use } 1 \text{ ug/L at } [\text{CaCO}_3] > 180 \text{ mg/L}; \text{ if hardness unknown use } 1 \text{ ug/L at } [\text{CaCO}_3] > 180 \text{ mg/L}; \text{ if hardness unknown use } 1 \text{ ug/L at } [\text{CaCO}_3] > 180 \text{ mg/L}; \text{ if hardness unknown use } 1 \text{ ug/L at } [\text{CaCO}_3] > 180 \text{ mg/L}; \text{ if hardness unknown use } 1 \text{ ug/L at } [\text{CaCO}_3] > 180 \text{ mg/L}; \text{ if hardness unknown use } 1 \text{ ug/L at } [\text{CaCO}_3] > 180 \text{ mg/L}; \text{ if hardness unknown use } 1 \text{ ug/L at } [\text{CaCO}_3] > 180 \text{ mg/L}; \text{ if hardness unknown use } 1 \text{ ug/L at } [\text{CaCO}_3] > 180 \text{ mg/L}; \text{ if hardness unknown use } 1 \text{ ug/L at } [\text{CaCO}_3] > 180 \text{ mg/L}; \text{ if hardness unknown use } 1 \text{ ug/L at } [\text{CaCO}_3] > 180 \text{ mg/L at } [\text{CaCO}_3] > 180 \text$

Manganese: Use the CCME CWQG for the Protection of Freshwater Aquatic Life calculator or table (requires pH & [CaCO₃]).

Nickel Guideline = 25 ug/L at [CaCO₃] = 0 - 60 mg/L; = varies at [CaCO₃] = >60 - 180 mg/L; or 150 ug/L at [CaCO₃] >180 mg/L; if hardness unknown use 25 ug/L

Uranium: CCME CWQG for the Protection of Freshwater Aquatic Life = 33 ug/L (short-term); 15 ug/L (long-term).

Dissolved Oxygen = Lowest acceptable concentration in cold water ecosystem = 9.5 mg/L for early life stages, 6.5 mg/L for other life stages.

² Nova Scotia Tier 1 Environmental Quality Standards for Contaminated Sites (NS EQS) for Fresh Surface Water (revised 30 September 2021)

Ammonia: pH & temperature dependant; consult CCME Fact Sheet

Aluminum Guideline = 5 ug/L at pH < 6.5; or = 100 ug/L at pH ≥ 6.5

 $\label{eq:copper_Guideline} Copper_Guideline = 2 \ ug/L \ at [CaCO_3] = 0 - <82 \ mg/L; = varies \ at [CaCO_3] = 82 - 180 \ mg/L; or = 4 \ ug/L \ at [CaCO_3] > 180 \ mg/L; if hardness unknown use 2 \ ug/L \ at [CaCO_3] > 180 \ mg/L; or = 4 \ ug/L \ at [CaCO_3] > 180 \ mg/L; or =$

Lead Guideline: 1 ug/L at [CaCO₃] = 0 - 60 mg/L; = 2 ug/L at [CaCO₃] = >60 - 120 mg/L; = 4 ug/L at [CaCO3] = >120 - 180 mg/L; or = 7 ug/L at [CaCO₃] > 180 mg/L; if hardness unknown use 1 ug/L

Nickel Guideline = 25 ug/L at [CaCO₃] = 0 - 60 mg/L; = 65 ug/L at [CaCO₃] = >60 mg/L; = 65 ug/L at [CaCO₃] = >60 mg/L; = 110 ug/L at [CaCO₃] = >120 - 180 mg/L; or 150 ug/L at [CaCO₃] >180 mg/L; if hardness unknown use 25 ug/L

Modified TPH Standard = 1.5 mg/L for Gas; = 0.1 mg/L for Fuel; = 0.1 mg/L for Lube



11 Morris Drive, Unit 122 Dartmouth, Nova Scotia CANADA B3B 1M2 TEL (902)468-8718 FAX (902)468-8924 http://www.agatlabs.com

CLIENT NAME: FIVE BRIDGES WILDERNESS HERITAGE TRUST PO BOX 3024

TANTALLON STN MAIN, NS B3Z4G9

(902) 448-4084

ATTENTION TO: BRIDGET ADAMS

PROJECT:

AGAT WORK ORDER: 23X060399

TRACE ORGANICS REVIEWED BY: Dylan McCarthy, Trace Organics Lab Technician WATER ANALYSIS REVIEWED BY: Ashleigh Dussault, Inorganics Laboratory Supervisor

DATE REPORTED: Sep 01, 2023

PAGES (INCLUDING COVER): 17 VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (902) 468-8718

*Notes		
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Disclaimer:

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 contained in this document.
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AGAT Laboratories (V1)

Page 1 of 17

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Certificate of Analysis

AGAT WORK ORDER: 23X060399

PROJECT:

11 Morris Drive, Unit 122 Dartmouth, Nova Scotia CANADA B3B 1M2 TEL (902)468-8718 FAX (902)468-8924 http://www.agatlabs.com

CLIENT NAME: FIVE BRIDGES WILDERNESS HERITAGE TRUST

SAMPLING SITE:

ATTENTION TO: BRIDGET ADAMS

SAMPLED BY:

Atlantic RBCA Tier 1 Hydrocarbons in Water (Version 3.1)

DATE RECEIVED: 2023-08-22							I	DATE REPORT	ED: 2023-09-01	
		SAMPLE DESCRIPTION: SAMPLE TYPE: DATE SAMPLED:	FBWHT SW1 Water 2023-08-22	FBWHT SW2 Water 2023-08-22	FBWHT SW3 Water 2023-08-22	FBWHT SW4 Water 2023-08-22	FBWHT SW5 Water 2023-08-22	FBWHT SW6 Water 2023-08-22	FBWHT SW7 Water 2023-08-22	FBWHT SW8 Water 2023-08-22
Parameter	Unit	G/S RDL	5230897	5230899	5230900	5230901	5230902	5230903	5230904	5230905
Benzene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Toluene	mg/L	0.001	< 0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Ethylbenzene	mg/L	0.001	< 0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Xylene (Total)	mg/L	0.002	< 0.002	< 0.002	<0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
C6-C10 (less BTEX)	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
>C10-C16 Hydrocarbons	mg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
>C16-C21 Hydrocarbons	mg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
>C21-C32 Hydrocarbons	mg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Modified TPH (Tier 1)	mg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Sediment			TRACE	TRACE	TRACE	NO	TRACE	TRACE	TRACE	TRACE
Resemblance Comment			NR							
Return to Baseline at C32			Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
Surrogate	Unit	Acceptable Limits								
Isobutylbenzene - EPH	%	70-130	104	101	108	107	105	104	105	108
Isobutylbenzene - VPH	%	70-130	77	84	84	83	82	76	78	79
n-Dotriacontane - EPH	%	70-130	104	100	109	109	108	108	106	109

Certified By:

Julian Munto



Certificate of Analysis

ATTENTION TO: BRIDGET ADAMS

AGAT WORK ORDER: 23X060399

PROJECT:

11 Morris Drive, Unit 122 Dartmouth, Nova Scotia CANADA B3B 1M2 TEL (902)468-8718 FAX (902)468-8924 http://www.agatlabs.com

CLIENT NAME: FIVE BRIDGES WILDERNESS HERITAGE TRUST

SAMPLING SITE: SAMPLED BY:

Atlantic RBCA Tier 1 Hydrocarbons in Water (Version 3.1)

DATE RECEIVED: 2023-08-22						DATE REPORTED: 2023-09-01
		SAMPLE DESCRIPTION: SAMPLE TYPE: DATE SAMPLED:	FBWHT SW9 Water 2023-08-22	FBWHT SW10 Water 2023-08-22	FBWHT DUP Water 2023-08-22	
Parameter	Unit	G/S RDL	5230906	5230907	5230908	
Benzene	mg/L	0.001	<0.001	<0.001	<0.001	
Toluene	mg/L	0.001	<0.001	<0.001	<0.001	
Ethylbenzene	mg/L	0.001	<0.001	<0.001	<0.001	
Xylene (Total)	mg/L	0.002	< 0.002	<0.002	< 0.002	
C6-C10 (less BTEX)	mg/L	0.01	<0.01	<0.01	<0.01	
>C10-C16 Hydrocarbons	mg/L	0.05	< 0.05	< 0.05	<0.05	
>C16-C21 Hydrocarbons	mg/L	0.05	< 0.05	< 0.05	<0.05	
>C21-C32 Hydrocarbons	mg/L	0.1	<0.1	<0.1	<0.1	
Modified TPH (Tier 1)	mg/L	0.1	<0.1	<0.1	<0.1	
Sediment			TRACE	NO	TRACE	
Resemblance Comment			NR	NR	NR	
Return to Baseline at C32			Υ	Υ	Υ	
Surrogate	Unit	Acceptable Limits				
Isobutylbenzene - EPH	%	70-130	109	105	109	
Isobutylbenzene - VPH	%	70-130	77	81	82	
n-Dotriacontane - EPH	%	70-130	109	104	110	

Certified By:

Julian Ments



Certificate of Analysis

ATTENTION TO: BRIDGET ADAMS

AGAT WORK ORDER: 23X060399

PROJECT:

11 Morris Drive, Unit 122 Dartmouth, Nova Scotia CANADA B3B 1M2 TEL (902)468-8718 FAX (902)468-8924 http://www.agatlabs.com

CLIENT NAME: FIVE BRIDGES WILDERNESS HERITAGE TRUST

SAMPLING SITE: SAMPLED BY:

Atlantic RBCA Tier 1 Hydrocarbons in Water (Version 3.1)

DATE RECEIVED: 2023-08-22 DATE REPORTED: 2023-09-01

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

5230897-5230908 Modified TPH, Xylene(Total) and C6-C10(less BTEX) are calculated parameters. The calculated parameter is non-accredited. The component parameters of the calculation are accredited.

Sediment parameter is comment only based on visual inspection of the sample prior to extraction and is not an accredited test.

Resemblance Comment Key:

GF - Gasoline Fraction

WGF - Weathered Gasoline Fraction

GR - Product in Gasoline Range

FOF - Fuel Oil Fraction

WFOF - Weathered Fuel Oil Fraction

FR - Product in Fuel Oil Range

LOF - Lube Oil Fraction

LR - Lube Range UC - Unidentified Compounds

NR - No Resemblance

NA - Not Applicable

Analysis performed at AGAT Halifax (unless marked by *)

Certified By:

Julian Munity



CLIENT NAME: FIVE BRIDGES WILDERNESS HERITAGE TRUST

SAMPLING SITE:

Certificate of Analysis

AGAT WORK ORDER: 23X060399

PROJECT:

ATTENTION TO: BRIDGET ADAMS

SAMPLED BY:

11 Morris Drive, Unit 122 Dartmouth, Nova Scotia CANADA B3B 1M2 TEL (902)468-8718 FAX (902)468-8924 http://www.agatlabs.com

Standard Water Analysis + Total Metals

DATE RECEIVED: 2023-08-22 DATE REPORTED: 2023-09-01

DATE RECEIVED: 2023-08-22							ED: 2023-09-01	-09-01		
Parameter	Unit	SAMPLE DESCRIPTION: SAMPLE TYPE: DATE SAMPLED: G/S RDL	FBWHT SW1 Water 2023-08-22 5230897	FBWHT SW2 Water 2023-08-22 5230899	FBWHT SW3 Water 2023-08-22 5230900	FBWHT SW4 Water 2023-08-22 5230901	FBWHT SW5 Water 2023-08-22 5230902	FBWHT SW6 Water 2023-08-22 5230903	FBWHT SW7 Water 2023-08-22 5230904	FBWHT SW8 Water 2023-08-22 5230905
рН			6.52	6.48	6.16	6.43	6.17	6.33	5.94	6.16
Reactive Silica as SiO2	mg/L	0.5	1.3	<0.5	14.7	10.8	3.0	2.3	3.6	2.6
Chloride	mg/L	1	18	18	8	53	14	61	6	14
Fluoride	mg/L	0.12	<0.12	<0.12	<0.12	0.12	<0.12	0.16	<0.12	<0.12
Sulphate	mg/L	2	2	6	2	13	4	23	<2	4
Alkalinity	mg/L	5	11	16	5	10	5	13	15	5
True Color	TCU	5.00	142	<5.00	17.0	99.9	38.6	111	99.7	125
Turbidity	NTU	0.50	2.79	0.77	0.90	1.09	0.83	2.41	<0.50	0.84
Electrical Conductivity	umho/cm	1	115	137	55	262	84	319	40	86
Nitrate + Nitrite as N	mg/L	0.05	< 0.05	0.18	< 0.05	0.33	0.11	0.62	< 0.05	0.17
Nitrate as N	mg/L	0.05	< 0.05	0.18	< 0.05	0.33	0.11	0.62	< 0.05	0.17
Nitrite as N	mg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Ammonia as N	mg/L	0.03	0.07	< 0.03	< 0.03	0.03	< 0.03	< 0.03	< 0.03	< 0.03
Total Organic Carbon	mg/L	0.5	31.4	9.3	15.9	12.7	16.0	6.0	19.4	16.1
Ortho-Phosphate as P	mg/L	0.01	<0.01	<0.01	0.98	0.99	0.01	<0.01	<0.01	<0.01
Total Sodium	mg/L	0.1	16.2	17.2	7.8	38.4	11.7	46.6	5.8	12.6
Total Potassium	mg/L	0.1	2.0	1.9	0.9	1.4	0.8	1.9	0.5	1.0
Total Calcium	mg/L	0.1	4.0	7.0	2.4	9.0	2.9	13.0	1.8	3.6
Total Magnesium	mg/L	0.1	1.1	1.5	0.6	1.6	0.7	2.5	0.5	0.8
Bicarb. Alkalinity (as CaCO3)	mg/L	5	11	16	5	10	5	13	15	5
Carb. Alkalinity (as CaCO3)	mg/L	10	<10	<10	<10	<10	<10	<10	<10	<10
Hydroxide	mg/L	5	<5	<5	<5	<5	<5	<5	<5	<5
Calculated TDS	mg/L	1	52	63	25	125	38	159	24	41
Hardness	mg/L		14.5	23.7	8.5	29.1	10.1	42.8	6.6	12.3
Langelier Index (@20C)	NA		-3.40	-3.04	-4.29	-3.21	-4.21	-3.05	-4.15	-4.13
Langelier Index (@ 4C)	NA		-3.72	-3.36	-4.61	-3.53	-4.53	-3.37	-4.47	-4.45
Saturation pH (@ 20C)	NA		9.92	9.52	10.4	9.64	10.4	9.38	10.1	10.3
Saturation pH (@ 4C)	NA		10.2	9.84	10.8	9.96	10.7	9.70	10.4	10.6
Anion Sum	me/L		0.77	0.97	0.37	1.99	0.59	2.50	0.47	0.59
Cation sum	me/L		1.13	1.30	0.58	2.34	0.78	2.97	0.46	0.88

Certified By:

Ashleigh Dussalt



AGAT WORK ORDER: 23X060399

PROJECT:

Dartmouth, Nova Scotia CANADA B3B 1M2 TEL (902)468-8718 FAX (902)468-8924 http://www.agatlabs.com

11 Morris Drive, Unit 122

CLIENT NAME: FIVE BRIDGES WILDERNESS HERITAGE TRUST

SAMPLING SITE:

ATTENTION TO: BRIDGET ADAMS SAMPLED BY:

Standard Water Analysis + Total Metals

DATE RECEIVED: 2023-08-22							1	DATE REPORTE	D: 2023-09-01	
		SAMPLE DESCRIPTION:	FBWHT SW1	FBWHT SW2	FBWHT SW3	FBWHT SW4	FBWHT SW5	FBWHT SW6	FBWHT SW7	FBWHT SW8
		SAMPLE TYPE:	Water	Water	Water	Water	Water	Water	Water	Water
		DATE SAMPLED:	2023-08-22	2023-08-22	2023-08-22	2023-08-22	2023-08-22	2023-08-22	2023-08-22	2023-08-22
Parameter	Unit	G/S RDL	5230897	5230899	5230900	5230901	5230902	5230903	5230904	5230905
% Difference/ Ion Balance	%		19.0	14.7	22.8	8.1	14.4	8.6	1.5	19.5
Total Aluminum	ug/L	5	186	67	331	288	324	236	391	367
Total Antimony	ug/L	2	<2	<2	<2	<2	<2	<2	<2	<2
Total Arsenic	ug/L	2	<2	<2	<2	<2	<2	<2	<2	<2
Total Barium	ug/L	5	9	15	10	17	10	20	7	12
Total Beryllium	ug/L	2	<2	<2	<2	<2	<2	<2	<2	<2
Total Bismuth	ug/L	2	<2	<2	<2	<2	<2	<2	<2	<2
Total Boron	ug/L	5	7	25	5	11	7	17	6	9
Total Cadmium	ug/L	0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09
Total Chromium	ug/L	2	<2	<2	<2	<2	<2	<2	<2	<2
Total Cobalt	ug/L	1	<1	<1	<1	<1	<1	<1	<1	<1
Total Copper	ug/L	2	<2	<2	<2	3	<2	2	<2	<2
Total Iron	ug/L	50	1430	519	393	365	361	350	394	393
Total Lead	ug/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Manganese	ug/L	2	203	65	52	113	43	122	31	42
Total Molybdenum	ug/L	2	<2	<2	<2	<2	<2	<2	<2	<2
Total Nickel	ug/L	2	<2	<2	<2	<2	<2	3	<2	<2
Total Phosphorous	mg/L	0.02	0.35	0.86	0.72	1.08	0.82	1.50	0.86	0.94
Total Selenium	ug/L	1	<1	<1	<1	<1	<1	<1	<1	<1
Total Silver	ug/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Strontium	ug/L	5	18	32	12	37	14	50	9	16
Total Thallium	ug/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Tin	ug/L	2	<2	<2	<2	<2	<2	<2	<2	<2
Total Titanium	ug/L	3	3	<3	<3	<3	<3	5	<3	<3
Total Uranium	ug/L	0.2	<0.2	<0.2	0.2	0.8	0.3	0.8	0.2	0.3
Total Vanadium	ug/L	2	<2	<2	<2	<2	<2	<2	<2	<2
Total Zinc	ug/L	5	<5	<5	<5	11	<5	12	<5	15

Certified By:

Ashleigh Dussalt



AGAT WORK ORDER: 23X060399

PROJECT:

Dartmouth, Nova Scotia CANADA B3B 1M2 TEL (902)468-8718 FAX (902)468-8924 http://www.agatlabs.com

11 Morris Drive, Unit 122

CLIENT NAME: FIVE BRIDGES WILDERNESS HERITAGE TRUST

SAMPLING SITE:

ATTENTION TO: BRIDGET ADAMS

SAMPLED BY:

	Standard Water Analysis + Total Metals								
DATE RECEIVED: 2023-08-22						DATE REPORTED: 2023-09-01			
Parameter	Unit	SAMPLE DESCRIPTION: SAMPLE TYPE: DATE SAMPLED: G/S RDL	FBWHT SW9 Water 2023-08-22 5230906	FBWHT SW10 Water 2023-08-22 5230907	FBWHT DUP Water 2023-08-22 5230908				
рН	<u> </u>	0,0 1.52	6.39	6.36	6.14				
Reactive Silica as SiO2	mg/L	0.5	4.5	2.6	2.9				
Chloride	mg/L	1	19	17	14				
Fluoride	mg/L	0.12	<0.12	<0.12	<0.12				
Sulphate	mg/L	2	4	3	4				
Alkalinity	mg/L	5	9	10	6				
True Color	TCU	5.00	11.1	156	125				
Turbidity	NTU	0.50	3.26	0.67	0.75				
Electrical Conductivity	umho/cm	1	111	101	84				
Nitrate + Nitrite as N	mg/L	0.05	< 0.05	0.06	0.10				
Nitrate as N	mg/L	0.05	< 0.05	0.06	0.10				
Nitrite as N	mg/L	0.05	< 0.05	< 0.05	< 0.05				
Ammonia as N	mg/L	0.03	< 0.03	< 0.03	< 0.03				
Total Organic Carbon	mg/L	0.5	17.6	9.0	15.6				
Ortho-Phosphate as P	mg/L	0.01	<0.01	<0.01	<0.01				
Total Sodium	mg/L	0.1	18.7	15.0	12.8				
Total Potassium	mg/L	0.1	1.0	1.3	1.0				
Total Calcium	mg/L	0.1	3.8	4.0	3.3				
Total Magnesium	mg/L	0.1	0.8	1.1	0.8				
Bicarb. Alkalinity (as CaCO3)	mg/L	5	9	10	6				
Carb. Alkalinity (as CaCO3)	mg/L	10	<10	<10	<10				
Hydroxide	mg/L	5	<5	<5	<5				
Calculated TDS	mg/L	1	54	48	41				
Hardness	mg/L		12.8	14.5	11.5				
Langelier Index (@20C)	NA		-3.64	-3.59	-4.11				
Langelier Index (@ 4C)	NA		-3.96	-3.91	-4.43				
Saturation pH (@ 20C)	NA		10.0	9.95	10.3				
Saturation pH (@ 4C)	NA		10.3	10.3	10.6				
Anion Sum	me/L		0.80	0.75	0.61				
Cation sum	me/L		1.19	1.02	0.87				

Certified By:

Ashligh Dussalt



AGAT WORK ORDER: 23X060399

PROJECT:

11 Morris Drive, Unit 122 Dartmouth, Nova Scotia CANADA B3B 1M2 TEL (902)468-8718 FAX (902)468-8924 http://www.agatlabs.com

CLIENT NAME: FIVE BRIDGES WILDERNESS HERITAGE TRUST

SAMPLING SITE:

ATTENTION TO: BRIDGET ADAMS SAMPLED BY:

Standard Water Analysis + Total Metals

DATE RECEIVED: 2023-08-22						DATE REPORTED: 2023-09-01
		SAMPLE DESCRIPTION: SAMPLE TYPE: DATE SAMPLED:	FBWHT SW9 Water 2023-08-22	FBWHT SW10 Water 2023-08-22	FBWHT DUP Water 2023-08-22	
Parameter	Unit	G/S RDL	5230906	5230907	5230908	
% Difference/ Ion Balance	%		19.5	15.3	18.0	
Total Aluminum	ug/L	5	452	193	378	
Total Antimony	ug/L	2	<2	<2	<2	
Total Arsenic	ug/L	2	3	<2	<2	
Total Barium	ug/L	5	18	10	13	
Total Beryllium	ug/L	2	<2	<2	<2	
Total Bismuth	ug/L	2	<2	<2	<2	
Total Boron	ug/L	5	10	353	86	
Total Cadmium	ug/L	0.09	< 0.09	< 0.09	< 0.09	
Total Chromium	ug/L	2	<2	<2	<2	
Total Cobalt	ug/L	1	<1	<1	<1	
Total Copper	ug/L	2	3	7	<2	
Total Iron	ug/L	50	1030	412	403	
Total Lead	ug/L	0.5	0.9	0.7	5.2	
Total Manganese	ug/L	2	107	39	42	
Total Molybdenum	ug/L	2	<2	<2	<2	
Total Nickel	ug/L	2	<2	<2	<2	
Total Phosphorous	mg/L	0.02	0.92	0.92	0.92	
Total Selenium	ug/L	1	<1	<1	<1	
Total Silver	ug/L	0.1	<0.1	<0.1	<0.1	
Total Strontium	ug/L	5	17	18	15	
Total Thallium	ug/L	0.1	<0.1	<0.1	<0.1	
Total Tin	ug/L	2	<2	<2	<2	
Total Titanium	ug/L	3	5	<3	3	
Total Uranium	ug/L	0.2	2.4	<0.2	0.3	
Total Vanadium	ug/L	2	<2	<2	<2	
Total Zinc	ug/L	5	<5	43	12	

Certified By:

Ashligh Dussalt



AGAT WORK ORDER: 23X060399

PROJECT:

11 Morris Drive, Unit 122 Dartmouth, Nova Scotia CANADA B3B 1M2 TEL (902)468-8718 FAX (902)468-8924 http://www.agatlabs.com

CLIENT NAME: FIVE BRIDGES WILDERNESS HERITAGE TRUST

SAMPLING SITE:

Standard Water Analysis + Total Metals

DATE RECEIVED: 2023-08-22 DATE REPORTED: 2023-09-01

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

5230897-5230899 % Difference / Ion Balance, Hardness, Langelier Index, Nitrate + Nitrite, Hydroxide and Saturation pH are calculated parameters. The calculated parameters are non-accredited. The component

parameters of the calculations are accredited.

pH has been analyzed past the recommended holding time of 15 minutes from sampling. Field measurement recommended for most accurate result

Ion Balance is biased high, contributing parameters have been confirmed.

5230900 % Difference / Ion Balance, Hardness, Langelier Index, Nitrate + Nitrite, Hydroxide and Saturation pH are calculated parameters. The calculated parameters are non-accredited. The component

parameters of the calculations are accredited.

pH has been analyzed past the recommended holding time of 15 minutes from sampling. Field measurement recommended for most accurate result

The cation and anion sums are at, or below, 1 me/L, therefore the acceptable criteria is a difference of less than 0.3me/L.

5230901 % Difference / Ion Balance, Hardness, Langelier Index, Nitrate + Nitrite, Hydroxide and Saturation pH are calculated parameters. The calculated parameters are non-accredited. The component

parameters of the calculations are accredited.

pH has been analyzed past the recommended holding time of 15 minutes from sampling. Field measurement recommended for most accurate result

5230902 % Difference / Ion Balance, Hardness, Langelier Index, Nitrate + Nitrite, Hydroxide and Saturation pH are calculated parameters. The calculated parameters are non-accredited. The component

parameters of the calculations are accredited.

pH has been analyzed past the recommended holding time of 15 minutes from sampling. Field measurement recommended for most accurate result

The cation and anion sums are at, or below, 1 me/L, therefore the acceptable criteria is a difference of less than 0.3me/L.

5230903 % Difference / Ion Balance, Hardness, Langelier Index, Nitrate + Nitrite, Hydroxide and Saturation pH are calculated parameters. The calculated parameters are non-accredited. The component

parameters of the calculations are accredited.

pH has been analyzed past the recommended holding time of 15 minutes from sampling. Field measurement recommended for most accurate result

5230904-5230905 % Difference / Ion Balance, Hardness, Langelier Index, Nitrate + Nitrite, Hydroxide and Saturation pH are calculated parameters. The calculated parameters are non-accredited. The component

parameters of the calculations are accredited.

pH has been analyzed past the recommended holding time of 15 minutes from sampling. Field measurement recommended for most accurate result

The cation and anion sums are at, or below, 1 me/L, therefore the acceptable criteria is a difference of less than 0.3me/L.

5230906-5230907 % Difference / Ion Balance, Hardness, Langelier Index, Nitrate + Nitrite, Hydroxide and Saturation pH are calculated parameters. The calculated parameters are non-accredited. The component

parameters of the calculations are accredited.

pH has been analyzed past the recommended holding time of 15 minutes from sampling. Field measurement recommended for most accurate result

Ion Balance is biased high, contributing parameters have been confirmed.

5230908 % Difference / Ion Balance, Hardness, Langelier Index, Nitrate + Nitrite, Hydroxide and Saturation pH are calculated parameters. The calculated parameters are non-accredited. The component

parameters of the calculations are accredited.

pH has been analyzed past the recommended holding time of 15 minutes from sampling. Field measurement recommended for most accurate result

The cation and anion sums are at, or below, 1 me/L, therefore the acceptable criteria is a difference of less than 0.3me/L.

Analysis performed at AGAT Halifax (unless marked by *)

Certified By:

ATTENTION TO: BRIDGET ADAMS

SAMPLED BY:



Quality Assurance

CLIENT NAME: FIVE BRIDGES WILDERNESS HERITAGE TRUST

AGAT WORK ORDER: 23X060399

PROJECT:

ATTENTION TO: BRIDGET ADAMS

SAMPLING SITE: SAMPLED BY:

O/ (IIII) = III (O OI (E)							•			• •					
			Trac	e Or	gani	cs Ar	nalys	is							
RPT Date: Sep 01, 2023			С	UPLICAT	E		REFEREN	NCE MA	TERIAL	METHOD	BLANK	SPIKE	MAT	RIX SPI	KE
PARAMETER	Batch	Sample	Dup #1	Dup #2	RPD Method Blank	ank Measured		Acceptable Limits			ptable nits	Recovery	1 1 1 1 1 1	ptable nits	
		ld	,				Value	Lower	Upper	,	Lower	Upper	7	Lower	Upper
Atlantic RBCA Tier 1 Hydroca	rbons in Wat	er (Version	າ 3.1)												
Benzene	1	5230897	< 0.001	< 0.001	NA	< 0.001	91%	70%	130%	85%	70%	130%			
Toluene	1	5230897	< 0.001	< 0.001	NA	< 0.001	86%	70%	130%	75%	70%	130%			
Ethylbenzene	1	5230897	< 0.001	< 0.001	NA	< 0.001	83%	70%	130%	70%	70%	130%			
Xylene (Total)	1	5230897	< 0.002	< 0.002	NA	< 0.002	87%	70%	130%	78%	70%	130%			
C6-C10 (less BTEX)	1	5230897	< 0.01	< 0.01	NA	< 0.01	94%	70%	130%	85%	70%	130%	72%	70%	130%
>C10-C16 Hydrocarbons	1	5230897	< 0.05	< 0.05	NA	< 0.05	96%	70%	130%	98%	70%	130%	96%	70%	130%
>C16-C21 Hydrocarbons	1	5230897	< 0.05	< 0.05	NA	< 0.05	106%	70%	130%	98%	70%	130%	96%	70%	130%
>C21-C32 Hydrocarbons	1	5230897	< 0.1	< 0.1	NA	< 0.1	122%	70%	130%	98%	70%	130%	96%	70%	130%

Comments: If Matrix spike value is NA, the spiked analyte concentration was lower than that of the matrix contribution. Matrix spike performed on a different sample than the duplicate.

If RPD value is NA, the results of the duplicates are less than 5x the RDL and the RPD will not be calculated.

Certified By:





Quality Assurance

CLIENT NAME: FIVE BRIDGES WILDERNESS HERITAGE TRUST

AGAT WORK ORDER: 23X060399

PROJECT:

ATTENTION TO: BRIDGET ADAMS

SAMPLING SITE: SAMPLED BY:

								AIVIP							
				Wate	er Ar	nalys	is								
RPT Date: Sep 01, 2023			D	UPLICAT	E		REFEREN	ICE MA	TERIAL	METHOD BLANK SPIKE		SPIKE	MATRIX SPIKE		IKE
PARAMETER	Batch S	Sample	Dup #1	Dup #2	RPD	Method Blank	Measured	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
TANAMETER	Baton	ld L	Jup " !	5up #2	111 2		Value	Lower	Upper	necevery		Upper	Recovery	Lower	Uppe
Standard Water Analysis + Tota	al Metals														
рН	5230901 523	0901 6	6.43	6.32	1.7%	<	101%	80%	120%	NA			NA		
Reactive Silica as SiO2	5226878		6.2	6.7	8.3%	< 0.5	NA	80%	120%	NA	80%	120%	116%	80%	120%
Chloride	5231296		4	4	NA	< 1	82%	80%	120%	NA	80%	120%	83%	70%	130%
Fluoride	5231296	(0.26	0.30	NA	< 0.12	98%	80%	120%	NA	80%	120%	102%	70%	130%
Sulphate	5231296		5	6	NA	< 2	95%	80%	120%	NA	80%	120%	85%	70%	130%
Alkalinity	5230901 523	0901	10	8	NA	< 5	118%	80%	120%	NA			NA		
True Color	5226878	<	5.00	<5.00	NA	< 5	84%	80%	120%	105%	80%	120%	NA		
Turbidity	5230901 523	0901 1	1.09	0.97	NA	< 0.5	NA	80%	120%	NA			NA		
Electrical Conductivity	5230901 523	0901 2	262	262	0.0%	< 1	97%	90%	110%	NA			NA		
Nitrate as N	5231296	(80.0	0.07	NA	< 0.05	93%	80%	120%	NA	80%	120%	78%	70%	130%
Nitrite as N	5231296	<	:0.05	<0.05	NA	< 0.05	93%	80%	120%	NA	80%	120%	89%	70%	130%
Ammonia as N	5231296	<	:0.03	< 0.03	NA	< 0.03	100%	80%	120%	99%	80%	120%	109%	70%	130%
Total Organic Carbon	1	<	<0.5	<0.5	NA	< 0.5		80%	120%		80%	120%		80%	120%
Ortho-Phosphate as P	5226878	(0.05	0.04	NA	< 0.01	108%	80%	120%	99%	80%	120%	109%	80%	120%
Total Sodium	5236298		7.4	7.6	3.0%	< 0.1	99%	80%	120%	99%	80%	120%	122%	70%	130%
Total Potassium	5236298		0.9	0.9	1.3%	<0.1	99%	80%	120%	101%	80%	120%	103%	70%	130%
Total Calcium	5236298		9.6	9.8	1.4%	<0.1	101%	80%	120%	102%	80%	120%	126%	70%	130%
Total Magnesium	5236298		1.1	1.2	3.9%	< 0.1	100%	80%	120%	104%	80%	120%	106%	70%	130%
Bicarb. Alkalinity (as CaCO3)	5230901 523		10	8	NA	< 5	NA	80%	120%	NA			NA		
Carb. Alkalinity (as CaCO3)	5230901 523	0901	<10	<10	NA	< 10	NA	80%	120%	NA			NA		
Hydroxide	5230901 523	0901	<5	<5	NA	< 5	NA	80%	120%	NA			NA		
Total Aluminum	5236298		270	284	5.3%	< 5	95%	80%	120%	95%	80%	120%	NA	70%	130%
Total Antimony	5236298		<2	<2	NA	< 2	97%	80%	120%	95%	80%	120%	93%	70%	130%
Total Arsenic	5236298		<2	<2	NA	< 2	98%	80%	120%	99%	80%	120%	96%	70%	130%
Total Barium	5236298		<5	<5	NA	< 5	97%	80%	120%	94%	80%	120%	96%	70%	130%
Total Beryllium	5236298		<2	<2	NA	< 2	110%	80%	120%	NA	80%	120%	117%	70%	130%
Total Bismuth	5236298		<2	<2	NA	< 2	102%	80%	120%	NA	80%	120%	99%	70%	130%
Total Boron	5236298		<5	<5	NA	< 5	98%	80%	120%	92%	80%	120%	115%	70%	130%
Total Cadmium	5236298		0.09	0.09	NA	< 0.09	100%	80%	120%	100%	80%	120%	95%	70%	130%
Total Chromium	5236298		<2	<2	NA	< 1	101%	80%	120%	98%	80%	120%	98%	70%	130%
Total Cobalt	5236298		<1	<1	NA	< 1	100%	80%	120%	99%	80%	120%	97%	70%	130%
Total Copper	5236298		3	3	NA	< 1	101%	80%	120%	100%	80%	120%	97%		
Total Iron	5236298	1	1430	1460	2.7%	< 50	101%	80%	120%	100%	80%	120%	NA	70%	
Total Lead	5236298		5.1	5.2	2.4%	< 0.5	100%	80%	120%	99%	80%	120%	98%	70%	
Total Manganese	5236298		389	403	3.5%	< 2	100%	80%	120%	103%		120%	NA		130%
Total Molybdenum	5236298		3	3	NA	< 2	96%	80%	120%	92%	80%	120%	94%	70%	130%
Total Nickel	5236298		<2	<2	NA	< 2	101%	80%	120%	98%	80%	120%	98%	70%	130%
	5236298		3.95	4.13	4.5%	< 0.02	105%	80%	120%	87%	80%	120%	NA	70%	
Total Phosphorous	5 23 6298		ა.ჟა	4.10	4.070	< 0.02	10070	OU 70	12070	01/0	00 /0	12070	INA	/ U 70	100 //

AGAT QUALITY ASSURANCE REPORT (V1)

Page 11 of 17

AGAT Laboratories is accredited to ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA) and/or Standards Council of Canada (SCC) for specific tests listed on the scope of accreditation. AGAT Laboratories (Mississauga) is also accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) for specific drinking water tests. Accreditations are location and parameter specific. A complete listing of parameters for each location is available from www.cala.ca and/or www.scc.ca. The tests in this report may not necessarily be included in the scope of accreditation. RPDs calculated using raw data. The RPD may not be reflective of duplicate values shown, due to rounding of final results.



Quality Assurance

CLIENT NAME: FIVE BRIDGES WILDERNESS HERITAGE TRUST AGAT WORK ORDER: 23X060399
PROJECT: ATTENTION TO: BRIDGET ADAMS

SAMPLING SITE: SAMPLED BY:

O/ 2							•			•••					
		V	Nate	r Ana	lysis	(Co	ntinu	ed)							
RPT Date: Sep 01, 2023				UPLICAT	Έ		REFEREN	NCE MA	TERIAL	METHOD	BLANK	SPIKE	МАТ	TRIX SPI	KE
PARAMETER	Batch	Sample	Dup #1	Dup #2 RPD	Method Blank	Measured Value		ptable nits	Recovery	1 1 10	ptable mits	Recovery	l lie	eptable mits	
		ld	·				Value	Lower	Upper		Lower	Upper	7	Lower	Upper
Total Silver	5236298		<0.1	<0.1	NA	< 0.1	131%	80%	120%	NA	80%	120%	123%	70%	130%
Total Strontium	5236298		20	21	NA	< 5	99%	80%	120%	100%	80%	120%	104%	70%	130%
Total Thallium	5236298		<0.1	<0.1	NA	< 0.1	98%	80%	120%	99%	80%	120%	95%	70%	130%
Total Tin	5236298		<2	<2	NA	< 2	98%	80%	120%	95%	80%	120%	95%	70%	130%
Total Titanium	5236298		11	13	NA	< 2	99%	80%	120%	99%	80%	120%	101%	70%	130%
Total Uranium	5236298		14.3	14.6	2.3%	< 0.2	99%	80%	120%	96%	80%	120%	99%	70%	130%
Total Vanadium	5236298		<2	<2	NA	< 2	99%	80%	120%	98%	80%	120%	98%	70%	130%
Total Zinc	5236298		882	904	2.4%	< 5	99%	80%	120%	96%	80%	120%	NA	70%	130%

Comments: If RPD value is NA, the results of the duplicates are less than 5x the RDL and the RPD will not be calculated.

Certified Reference Material: More than 90% of the elements met acceptance limits and overall data quality is acceptable for use. For a multi-element scan up to 10% of analytes may exceed the quoted limits by up to 10% absolute.

Certified By:

Ashleigh Dussalt



QC Exceedance

CLIENT NAME: FIVE BRIDGES WILDERNESS HERITAGE TRUST AGAT WORK ORDER: 23X060399

PROJECT: ATTENTION TO: BRIDGET ADAMS

RPT Date: Sep 01, 2023		REFERENC	E MATERIAL	METHOD	BLANK	SPIKE	MAT	RIX SPI	KE
PARAMETER	Sample Id	Measured	Acceptable Limits	Recovery	Accep Lim		Recovery	Lin	eptable mits
1.00	- Campio ia	Value	Lower Upper]	Lower	Upper		Lower	Upper

Standard Water Analysis + Total Metals

Total Silver 131% 80% 120% NA 80% 120% 123% 70% 130%

Comments: If RPD value is NA, the results of the duplicates are less than 5x the RDL and the RPD will not be calculated.

Certified Reference Material: More than 90% of the elements met acceptance limits and overall data quality is acceptable for use. For a multi-element scan up to 10% of analytes may exceed the quoted limits by up to 10% absolute.

Method Summary

CLIENT NAME: FIVE BRIDGES WILDERNESS HERITAGE TRUST

AGAT WORK ORDER: 23X060399

PROJECT:

ATTENTION TO: BRIDGET ADAMS

SAMPLING SITE: SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis	·		
Benzene	VOL-120-5013	Atlantic RBCA Guidelines for Laboratories Tier 1	GC/MS
Toluene	VOL-120-5013	Atlantic RBCA Guidelines for Laboratories Tier 1	GC/MS
Ethylbenzene	VOL-120-5013	Atlantic RBCA Guidelines for Laboratories Tier 1	GC/MS
Xylene (Total)	VOL-120-5013	Atlantic RBCA Guidelines for Laboratories Tier 1	GC/MS
C6-C10 (less BTEX)	VOL-120-5013	Atlantic RBCA Guidelines for Laboratories Tier 1	GC/MS
>C10-C16 Hydrocarbons	ORG-120-5101	Atlantic RBCA Guidelines for Laboratories Tier 1	GC/FID
>C16-C21 Hydrocarbons	ORG-120-5101	Atlantic RBCA Guidelines for Laboratories Tier 1	GC/FID
>C21-C32 Hydrocarbons	ORG-120-5101	Atlantic RBCA Guidelines for Laboratories Tier 1	GC/FID
Modified TPH (Tier 1)	ORG-120-5101	Atlantic RBCA Guidelines for Laboratories Tier 1	CALCULATION
Sediment			GC/MS/FID
Resemblance Comment	ORG-120-5101	Atlantic RBCA Guidelines for Laboratories Tier 1	GC/MS/FID
Return to Baseline at C32	ORG-120-5101	Atlantic RBCA Guidelines for Laboratories Tier 1	GC/FID
Isobutylbenzene - EPH	ORG-120-5101	Atlantic RBCA Guidelines for Laboratories Tier 1	GC/FID
Isobutylbenzene - VPH	VOL-120-5013	Atlantic RBCA Guidelines for Laboratories Tier 1	GC/MS
n-Dotriacontane - EPH	ORG-120-5101	Atlantic RBCA Guidelines for Laboratories Tier 1	GC/FID

Method Summary

CLIENT NAME: FIVE BRIDGES WILDERNESS HERITAGE TRUST

AGAT WORK ORDER: 23X060399

PROJECT:

ATTENTION TO: BRIDGET ADAMS

SAMPLING SITE: SAMPLED BY:

SAMPLING SITE:		SAMPLED BY:	
PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Water Analysis	•		
рН	INOR-121-6001	SM 4500 H+B	PC TITRATE
Reactive Silica as SiO2	INOR-121-6027	SM 4500-SiO2 F	COLORIMETER
Chloride	INORG-121-6005	SM 4110 B	ION CHROMATOGRAPH
Fluoride	INORG-121-6005	SM 4110 B	ION CHROMATOGRAPH
Sulphate	INORG-121-6005	SM 4110 B	ION CHROMATOGRAPH
Alkalinity	INOR-121-6001	SM 2320 B	
True Color	INOR-121-6008	SM 2120 B	LACHAT FIA
Turbidity	INOR-121-6001	SM 2130 B	PC TITRATE
Electrical Conductivity	INOR-121-6001	SM 2510 B	PC TITRATE
Nitrate + Nitrite as N	INORG-121-6005	SM 4110 B	CALCULATION
Nitrate as N	INORG-121-6005	SM 4110 B	ION CHROMATOGRAPH
Nitrite as N	INORG-121-6005	SM 4110 B	ION CHROMATOGRAPH
Ammonia as N	INOR-121-6047	SM 4500-NH3 H	COLORIMETER
Total Organic Carbon	INOR-121-6026	SM 5310 B	TOC ANALYZER
Ortho-Phosphate as P	INOR-121-6012	SM 4500-P G	COLORIMETER
Total Sodium	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Total Potassium	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Total Calcium	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Total Magnesium	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Bicarb. Alkalinity (as CaCO3)	INORG-121-6001	SM 2320 B	PC TITRATE
Carb. Alkalinity (as CaCO3)	INORG-121-6001	SM 2320 B	PC TITRATE
Hydroxide	INORG-121-6001	SM 2320 B	PC-TITRATE
Calculated TDS	CALCULATION	SM 1030E	CALCULATION
Hardness	CALCULATION	SM 2340B	CALCULATION
Langelier Index (@20C)	CALCULATION	CALCULATION	CALCULATION
Langelier Index (@ 4C)	CALCULATION	CALCULATION	CALCULATION
Saturation pH (@ 20C)	CALCULATION	CALCULATION	CALCULATION
Saturation pH (@ 4C)	CALCULATION	CALCULATION	CALCULATION
Anion Sum	CALCULATION	SM 1030E	CALCULATION
Cation sum	CALCULATION	SM 1030E	CALCULATION
% Difference/ Ion Balance	CALCULATION	SM 1030E	CALCULATION
Total Aluminum	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Total Antimony	MET121-6104 & MET-121-6105	SM 3125	ICP-MS
Total Arsenic	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Total Barium	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Total Beryllium	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Total Bismuth	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Total Boron	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS
Total Cadmium	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS

Method Summary

CLIENT NAME: FIVE BRIDGES WILDERNESS HERITAGE TRUST

AGAT WORK ORDER: 23X060399

PROJECT:

ATTENTION TO: BRIDGET ADAMS

SAMPLING SITE: SAMPLED BY:

SAMPLING SITE:		SAMPLED BY:									
PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE								
Total Chromium	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS								
Total Cobalt	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS								
Total Copper	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS								
Total Iron	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS								
Total Lead	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS								
Total Manganese	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS								
Total Molybdenum	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS								
Total Nickel	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS								
Total Phosphorous	MET-121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS								
Total Selenium	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS								
Total Silver	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS								
Total Strontium	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS								
Total Thallium	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS								
Total Tin	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS								
Total Titanium	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS								
Total Uranium	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS								
Total Vanadium	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS								
Total Zinc	MET121-6104 & MET-121-6105	modified from SM 3125/SM 3030 B/SM 3030 D	ICP-MS								

GGGT Laboratories

Have feedback? Scan here for a quick survey!



Unit 122 =

11 Morris Drive	Laboratory Use Only
Dartmouth, NS	Arrival Condition: ☐ Good ☐ Poor (see notes)
B3B 1M2	Arrival Temperature: 15 4,16 (17 3
902.468.8718	Hold Time:
w.agatlabs.com	AGAT Job Number: 450.00399
	Notes:

Chain of Custoo	ly Record	-	webearth.agatlabs.com • www.agatlabs.com									AGAT Job Number: 23x 060399														
Report Information		Report								eport Format Notes:																
Company: FIVE BRIDGES WILDERNESS HERTTAGE																										
				Email: WES by the san Cartlet com						Single Sample per page																
				2. Name: FBWHT						Multiple Samples					Turnaround Time Required (TAT)											
Address:				O1 1 1 2 0 11					11.08					Regular TAT 🔀 5 to 7 working days												
Discourse 902.448.4084										Excel Format Included Rus				sh TAT 🗆 Same day 🗀 1 day							. day	. "				
Phone: 902.448.4084 Fax:				Regulatory Requirements (Check):							Export				☐ 2 days ☐ 3 days											
Client Project #: AGAT Quotation: \$33098				XList Guidelines on Report □ Do not list Guidelines on Report ■ PIRI							Date				ired			193AUG 22 3:36P								
Please Note: If quotation number is not provided client will be billed full price for analysis.				Tier 1 ☐ Res ☐ Pot ☐ Coarse ☐ Irier 2 ☐ Com ☐ N/Pot ☐ Fine ☐ Di										Date Required: 123AUG 22 3536F 59M												
0.00WT 10										Drinklng Water Sample: ☐ Yes ☐ No Salt Water Sample								le [☐ Yes ☐ No							
Invoice To Same Yes No 🗆				S □ Fuel □ Lube	-			F	Reg. I	٠ <u> </u>				_			_	_			4					
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Phone: Fax:			— XFW	AL	Field Filtered/Preserved	Standard Water Analysis	□ Diss	2					Tier 1: TPH/BTEX (PIRI) □ low level	Tacuonauon 3TEX		l					Pseudomonas					
PO/Credit Card#:				liment	J/Pre	ater A	Total	□ CBOD		SQ1	Total Phosphorus		Tier 1: TPH/BTEX	TPH/BTEX						P/A	Pseuc			(N)		
					Itere	Z N	5 5				losph	,,	PH/I	WST							Ps D	1) snc		
Sample Identification	Date/Time Sampled	Sample Matrix	# Containers	Comments - Site/Sample Info. Sample Containment	E Pie	anda	Metals:	8		D TSS	ral Ph	enols	11:1	CCME-CWS 1	VOC	≥	⋖	_	m	TC + EC	□ HPC	Other:	Other:	Hazardous (Y/N)		
FBWHT SWI	22 AUG 2023			Sample Containment			žž		표	_ i	<u>₹</u> ½	-R	E 15	8 8	>	H H	HAA	PAH	PCB	일 :	<u> </u>		₹	<u> </u>		
FBWHT SW2	22 ADQ 2023	SW	8	Allsamples	1º	X	<u> </u>	+	-	_	-		X	4	1				4	_	\perp	\perp	Ш			
FBWHT SW3				between	H		1	+	1		-		+	+	+	-	_		-	-	+	-	Ш			
FBWHT SW4				~20°C & ~24°C	+	+	+	+	-		-	H	+	+	+	H			-	-	+	+-	\vdash			
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FBWHT SW6			di di	Sampling			1			_		H	+	+	1				\dashv	+	+	+	\vdash			
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B. Adoms 3 35pn 22 AUG2				23 Samples Received By (Print Name):					Date/Time					Pink Copy - Client				David Control								
Samples Relinquished By (Sign)				Samples Raceived By (Sign)					N					Yellow Copy - AGAT				Page of								
				(AVV)					Date/Time					White Copy- AGAT				Nº:								
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