SD 13

Supplemental Fish Tissue Study

Stantec

Memo

To:	James Millard Atlantic Mining NS Inc.	From:	Jenny Reid Stantec Consulting Ltd.
File:	121619250.2000.950.1401	Date:	April 14, 2021

Reference: Supplemental Fish Tissue Study at Touquoy Mine, Nova Scotia

BACKGROUND

In accordance with the *Metal and Diamond Mining Effluent Regulations* (MDMER) of the *Fisheries Act*, metal and diamond mines in Canada must undertake aquatic environmental effects monitoring (EEM) when the effluent flow rate from all the final discharge points exceeds 50 m^3/day and includes a deleterious substance, as defined under Section 36(3) of the *Fisheries Act*.

Under the MDMER, a fish tissue selenium study is required if effluent has a concentration of total selenium that is equal to or greater than 10 µg/L or the mean annual effluent concentration of selenium exceeds 5 µg/L in a calendar year. Alternately, a selenium in fish tissue study is required if the method detection limit used for selenium for the analysis of any effluent sample is equal to or greater than 10 µg/L, or the method detection limit used for selenium for the analysis of at least two of the four effluent samples in a calendar year is equal to or greater than 5 µg/L.

A study respecting fish tissue mercury is required if the effluent characterization reveals an annual mean concentration of total mercury that is greater or equal to 0.10 µg/L, based on the calendar year, unless the results of the previous two biological monitoring studies indicate no effect on fish tissue from mercury. Alternately, a mercury in fish tissue study is required if the method detection limit used for mercury for the analysis of at least two of the four effluent samples in a calendar year is equal to or greater than 0.10 µg/L.

Based on mercury and selenium concentrations in final effluent for grab samples and annual means in 2018 and 2019, no fish tissue studies for mercury or selenium are required for Phase 1 EEM. However, effluent sampling results from 2020 triggered the requirement for a fish selenium tissue study in Phase 2 EEM as the mean annual effluent concentration and the analysis of the November 3, 2020 effluent sample were above the thresholds described above. Given that a fish tissue selenium study will be required for Phase 2 EEM, Atlantic Mining NS Inc. (AMNS) proactively decided to conduct a fish tissue study at the Touquoy Mine in 2020 for internal information in advance of the Phase 2 EEM.

Under MDMER, there is no definition for an “effect” for selenium, but for mercury, an “effect” is defined as a concentration of total mercury that exceeds 0.5 µg/g wet weight in fish tissue that is taken in an exposure area and that is statistically different from and higher than the concentration of total mercury in fish tissue that is taken in a reference area. Statistical analysis of the baseline or 2020 samples may be conducted as a supplement to the Phase 2 EEM interpretive report to provide context if effects are observed.

Reference: **Supplemental Fish Tissue Study at Touquoy Mine, Nova Scotia**

METHODS

Fish tissue samples were collected during the Phase 1 EEM fish survey between September 28 and October 7, 2020. Fish were collected from one nearfield exposure area on Scraggy Lake and two reference areas, located on Long Lake and the northeastern basin of Scraggy Lake (Attachment A). The tissue samples submitted for laboratory analysis from the nearfield exposure of Scraggy Lake, Long Lake and the northeastern basin of Scraggy Lake are labelled -EX, -LL and -NE, respectively. The results of those collections and associated biological sampling conducted in addition to the fish tissue study are provided in Phase 1 EEM Interpretive Report (Stantec, in prep., 2021).

Five fish of each sentinel species of white sucker (*Catostomus commersonii*) and yellow perch (*Perca flavescens*) were selected from the fish retained for collection of biological endpoints at each of the exposure and two reference areas. Fish selected for tissue analysis were transferred from the collection site to a field laboratory. To prevent cross-contamination between samples, dissecting tools (e.g., scalpel, forceps, cutting board) were rinsed with tap water, followed by Versa-clean multi-purpose cleaner (Fisher Scientific), denatured alcohol (Fisher Scientific) and then de-ionized water between individual fish samples. Nitrile gloves were worn during dissections and were changed between samples.

White sucker were sexed and gonads greater than 10 g were removed from females. The remaining carcass of each white sucker was transferred to a large Ziploc® bag for whole-body analysis. As applicable, ovaries were weighed and placed in a Whirl-Pak® bag for analysis. In total, 15 white sucker were analyzed as whole body samples (n=15 samples) and 11 associated ovary samples from these white suckers were also submitted (-OV; n=11 samples). The skinless, boneless muscle fillets of 15 yellow perch were removed using a scalpel, tweezers, and a fillet knife. The skinless, boneless muscle fillets were weighed and placed in individual Whirl-Pak® bags for analysis (-MUS; n=15 samples). The remaining carcasses were paced in a separate Whirl-Pak® bags for analysis (-CAR; n=15 samples). In all cases, samples were labelled with a unique sample number and placed into a freezer at -20ºC for storage prior to being submitted in a cooler on ice for trace metals analysis to the Research and Productivity Council (RPC), in Fredericton, NB.

Fish tissue samples were analyzed for several parameters, including a complete scan for metals, lipids (i.e., crude fat), and moisture. Whole sample homogenates were prepared for each sample. Portions of the homogenates were prepared by Microwave Assisted Digestion in nitric acid and analyzed for trace elements by Inductively Coupled Plasma Mass Spectrometry (ICP-MS). Mercury was analyzed by Cold Vapour Atomic Absorption Spectroscopy. Fat was determined by acid hydrolysis (OAS-FC06) and moisture by method OAS-FC01. The total wet weight body metal concentration was calculated by adding the metal concentration in the skinless, boneless fillet and carcass for yellow perch, and the ovary and remaining carcass for white sucker. Results are presented on a wet weight basis, with the exception of selenium which is presented on a dry weight basis in µg/g as per MDMER.

For yellow perch, metal concentrations of both muscle tissue and whole-body were desired. Similarly, for white sucker, metal concentrations of both ovary and whole-body were desired. To determine the whole-body concentration the following formula was used.

Reference: **Supplemental Fish Tissue Study at Touquoy Mine, Nova Scotia**

$$WB_c = \frac{\left((P_c \; x \; M_{wt}) + (P_c \; x \; C_{wt})\right)}{(M_{wt} + C_{wt})}$$

Where:

WBc = Whole-body concentration (mg/kg) wet weight
Pc = Parameter concentration (mg/kg)
Mwt = Muscle Weight or Ovary Weight (kg)
Cwt = Carcass Weight (kg)

Descriptive statistics including, minimum, maximum, median, mean, standard error, and standard deviation were calculated for each tissue parameter by fish species and location captured. Half of the detection limit was used to calculate the descriptive statistics when a parameter was below the reportable detection limits. Mercury and selenium were selected as metals for detailed analysis. The results of fish tissue analyses were compared to applicable federal consumption guidelines for mercury, while selenium was compared to the USEPA 2016 aquatic life ambient criterion for the protection of aquatic life (US EPA 2016).

Qualitative differences in mercury and selenium were assessed between the exposure and references areas. No statistical comparisons were conducted. In both cases, mercury and selenium were compared to baseline data from CRA (2007) (i.e., prior to mine development), Stantec (2018 and 2019) (i.e., prior to effluent release), as applicable. The data for metals in fish tissue data collected for baseline and during operation in 2020 will be available for comparison with future data collected during EEM phases.

RESULTS AND DISCUSSION

WHITE SUCKER

Descriptive statistics for concentrations of mercury and selenium in white sucker ovary and whole body are provided in Table 1. Tables with all laboratory results and calculated values are provided in Attachment B (Tables B.1 to B.3). Biological information is provided in Attachment B (Table B.7) and laboratory certificates are provided in Attachment C.

Reference: **Supplemental Fish Tissue Study at Touquoy Mine, Nova Scotia**

Table 1 Descriptive Statistics for Mercury and Selenium Concentrations for White Sucker Whole Body and Ovary

Descriptive Statistic	White Sucker - Ovaries			White Sucker - Whole Body		
	Long Lake Reference Area	Scraggy Lake Northeastern Basin Reference Area	Scraggy Lake Nearfield Exposure Area	Long Lake Reference Area	Scraggy Lake Northeastern Basin Reference Area	Scraggy Lake Nearfield Exposure Area
Mercury (mg/kg)						
Count	1	5	5	5	5	5
Minimum	0.04	0.03	0.01	0.09	0.14	0.14
Maximum	0.04	0.46	0.06	0.22	0.27	0.27
Median	-	0.05	0.03	0.17	0.20	0.16
Mean	-	0.13	0.03	0.15	0.20	0.18
Standard Error	-	0.08	0.01	0.02	0.03	0.02
Standard Deviation	-	0.19	0.02	0.06	0.06	0.05
Selenium - dry weight (µg/g)						
Count	1	5	5	5	5	5
Minimum	6.63	2.54	3.42	2.74	2.21	2.72
Maximum	6.63	5.06	5.47	5.10	4.11	3.23
Median	-	3.95	3.96	3.35	2.99	2.96
Mean	-	4.06	4.25	3.63	3.09	2.98
Standard Error	-	0.44	0.36	0.40	0.34	0.10
Standard Deviation	-	0.99	0.81	0.89	0.76	0.22

"-" cannot be calculated for sample size n=1

Mercury in White Sucker Tissue

The following points summarize the results for mercury in white sucker tissue. Please note that no statistical comparisons were conducted.

- Mercury concentrations in ovaries of white sucker were lower than in whole body samples (Figure 1; Table 1).
- Mercury concentrations in whole body white sucker were similar in the exposure area to the reference areas (Figure 1; Table 1).
- Whole body and ovary concentrations of mercury were below the Health Canada commercial fish consumption guideline for human health of 0.5 mg/kg.

Reference: **Supplemental Fish Tissue Study at Touquoy Mine, Nova Scotia**

- Comparison with baseline (pre-EEM) sampling:
  - Mercury concentrations in whole body white sucker in 2020 were below the maximum concentration observed during baseline sampling (CRA 2007, Stantec 2018, 2019), which was 0.348 mg/kg wet weight (Stantec 2018).
  - Ovaries were not individually analyzed during baseline sampling programs in 2017 and 2018, so they cannot be compared with samples from 2020.

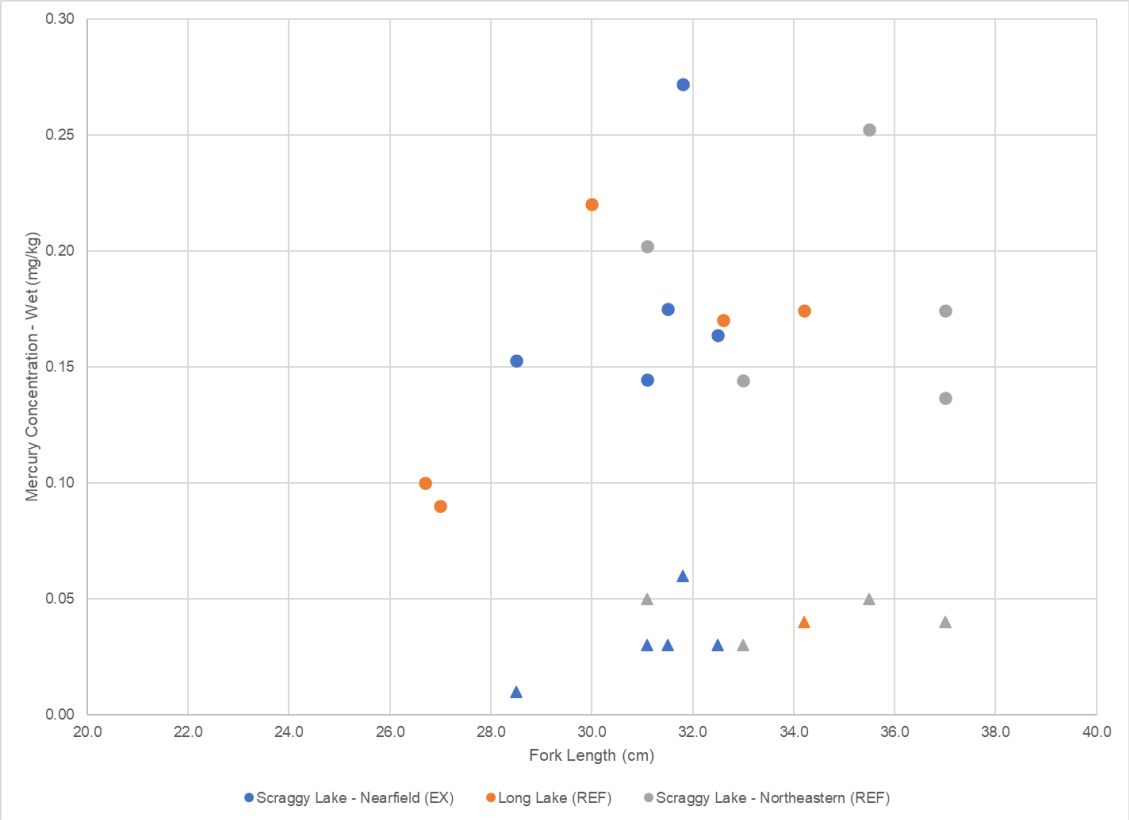

Figure 1 **White Sucker Ovary and Whole Body Mercury Concentrations in Relation to Fork Length (circles represent whole body, triangles represent ovary).**

Selenium in White Sucker Tissue

The following points summarize the results for selenium in white sucker tissue. Please note that no statistical comparisons were conducted.

- Dry weight selenium concentrations in white sucker ovaries were within the range or slightly higher than whole body samples (Figure 2; Table 1).
- Dry weight selenium concentrations in white sucker whole bodies or ovaries were not higher in fish from the exposure area when compared to the reference areas (Figure 2; Table 1).
- Ovary and whole body concentrations of selenium in white sucker were below the US EPA selenium criteria for the protection of aquatic life of 15.1 and 8.5 µg/g dry weight, respectively.

Reference: **Supplemental Fish Tissue Study at Touquoy Mine, Nova Scotia**

- Comparison with baseline (pre-EEM) sampling:
  - Dry weight selenium concentrations in whole body white sucker were obtained in 2018 (Stantec 2019); results for 2020 were below those observed in 2018 (2018 maximum = 6.85 µg/g; Stantec 2019).
  - No information was available on selenium in fish tissue from the environmental assessment conducted for the Touquoy project (CRA 2007) and moisture content to calculate selenium by dry weight was not analyzed in the baseline tissue data collected in 2017 due to low sample weights.

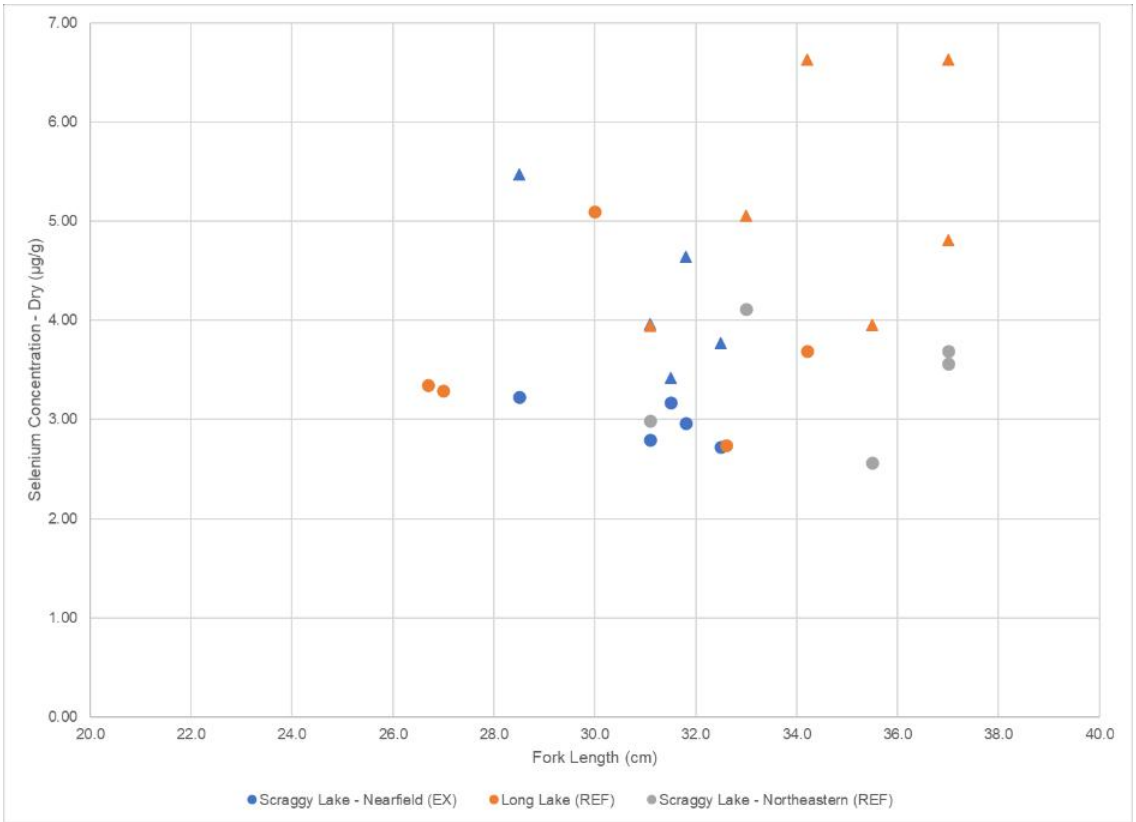

Figure 2 **White Sucker Ovary and Whole Body Selenium Concentrations in Relation to Fork Length (Circles represent whole body, triangles represent ovary)**

YELLOW PERCH

Descriptive statistics for concentrations of mercury and selenium in yellow perch muscle fillet and whole body are provided in Table 2. Tables with all laboratory results and calculated values are provided in Attachment B (Tables B.4 to B.6). Biological information is provided in Attachment B (Table B.7) and laboratory certificates are provided in Attachment C.

Reference: **Supplemental Fish Tissue Study at Touquoy Mine, Nova Scotia**

Mercury in Yellow Perch Tissue

The following points summarize the results for mercury in yellow perch tissue. Please note that no statistical comparisons were conducted.

- Mercury concentrations in samples of yellow perch muscle fillets and whole bodies at the exposure area were below the Health Canada commercial fish consumption guideline of 0.5 mg/kg.
- Mercury concentrations in four out of five yellow perch muscle fillets and four out of five whole body samples from the exposure area were higher than the maximum concentration observed at reference areas (Figure 3; Table 2).
- Comparison with baseline (pre-EEM) sampling:
  - One out of five whole body yellow perch from the exposure area had a mercury concentration which was above the maximum concentration of 0.59 mg/kg observed during baseline sampling in 2017 (CRA 2007; Stantec 2018 and 2019).
  - Four out of five yellow perch muscle tissue samples from the exposure area had mercury concentrations which were above the maximum concentration 0.81 mg/kg observed during baseline sampling in 2018 (Stantec 2019).
  - All five of the yellow perch muscle tissue samples and four out of five whole body samples had mercury concentrations that met or exceeded the Health Canada fish consumption guideline for human consumption of 0.5 mg/kg.
  - Results are consistent with baseline sampling conducted in 2017 and 2018 (Stantec 2018, 2019) which showed that mercury concentrations in yellow perch muscle tissue and whole body samples exceeded the Health Canada fish consumption guideline for human consumption of 0.5 mg/kg; the single sample for yellow perch collected for the environmental assessment (CRA 2007) was below this mercury guideline.

Reference: **Supplemental Fish Tissue Study at Touquoy Mine, Nova Scotia**

Table 2 **Descriptive Statistics for Mercury and Selenium Concentrations for Yellow Perch Skinless Muscle Fillet and Whole Body**

Descriptive Statistic	Yellow Perch - Fillet			Yellow Perch - Whole Body		
	Long Lake Reference Area	Scraggy Lake Northeastern Basin Reference Area	Scraggy Lake Nearfield Exposure Area	Long Lake Reference Area	Scraggy Lake Northeastern Basin Reference Area	Scraggy Lake Nearfield Exposure Area
Mercury (mg/kg)						
Count	5	5	5	5	5	5
Minimum	0.28	0.43	0.58	0.20	0.28	0.37
Maximum	0.49	0.79	0.97	0.34	0.50	0.62
Median	0.39	0.52	0.90	0.26	0.36	0.53
Mean	0.39	0.56	0.85	0.26	0.37	0.52
Standard Error	0.04	0.06	0.07	0.03	0.04	0.04
Standard Deviation	0.09	0.14	0.15	0.06	0.09	0.10
Selenium - Dry Weight (µg/g)						
Count	5	5	5	5	5	5
Minimum	2.96	3.16	2.60	2.58	2.52	2.38
Maximum	3.93	4.56	2.98	3.83	3.13	2.50
Median	3.50	3.71	2.79	2.88	2.86	2.42
Mean	3.46	3.80	2.77	3.05	2.84	2.44
Standard Error	0.19	0.25	0.07	0.23	0.12	0.02
Standard Deviation	0.43	0.56	0.15	0.52	0.28	0.05

Reference: **Supplemental Fish Tissue Study at Touquoy Mine, Nova Scotia**

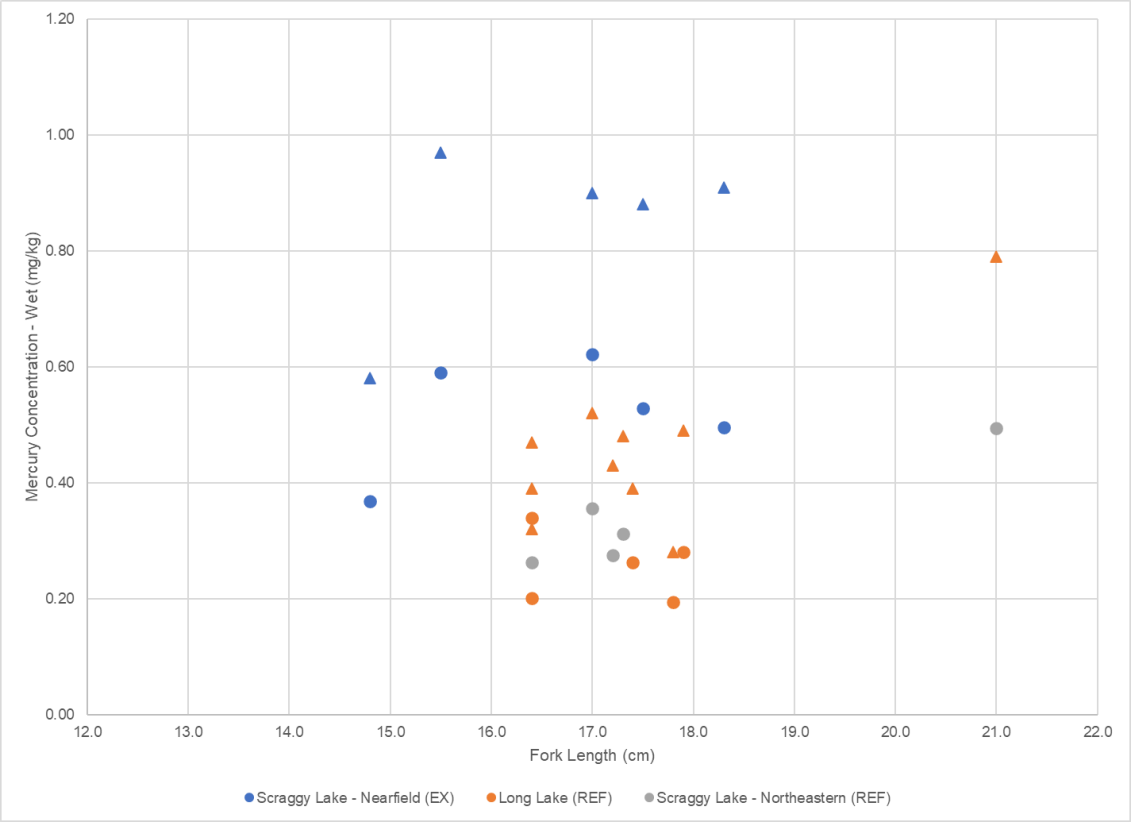

Figure 3 **Yellow Perch Skinless Muscle Fillet and Whole Body Mercury Concentrations in Relation to Fork Length (circles represent whole body, triangles represent muscle fillet)**

Selenium in Yellow Perch Tissue

The following points summarize the results for selenium in yellow perch tissue. Please note that no statistical comparisons were conducted.

- Dry weight selenium concentrations in yellow perch fillets, were within the range or slightly higher than whole body samples (Figure 4; Table 2).
- Dry weight selenium concentrations in yellow perch fillets and whole bodies from the exposure area were within the range of values or slightly lower than those observed from reference areas (Figure 4).
- Muscle fillet and whole body concentrations of selenium in yellow perch were below the US EPA selenium criteria of 11.3 and 8.5 µg/g dry weight, respectively.
- Comparison with baseline (pre-EEM) sampling:
  - Dry weight selenium concentrations in whole body yellow perch were below the maximum value observed in 2018 (5.0 µg/g) (Stantec 2019).
  - Selenium concentrations in yellow perch were not available prior to mine development (CRA 2007) and moisture to calculate selenium by dry weight was not available for baseline whole body samples collected in 2017 or for muscle fillets collected in 2018 due to low sample weights.

Reference: **Supplemental Fish Tissue Study at Touquoy Mine, Nova Scotia**

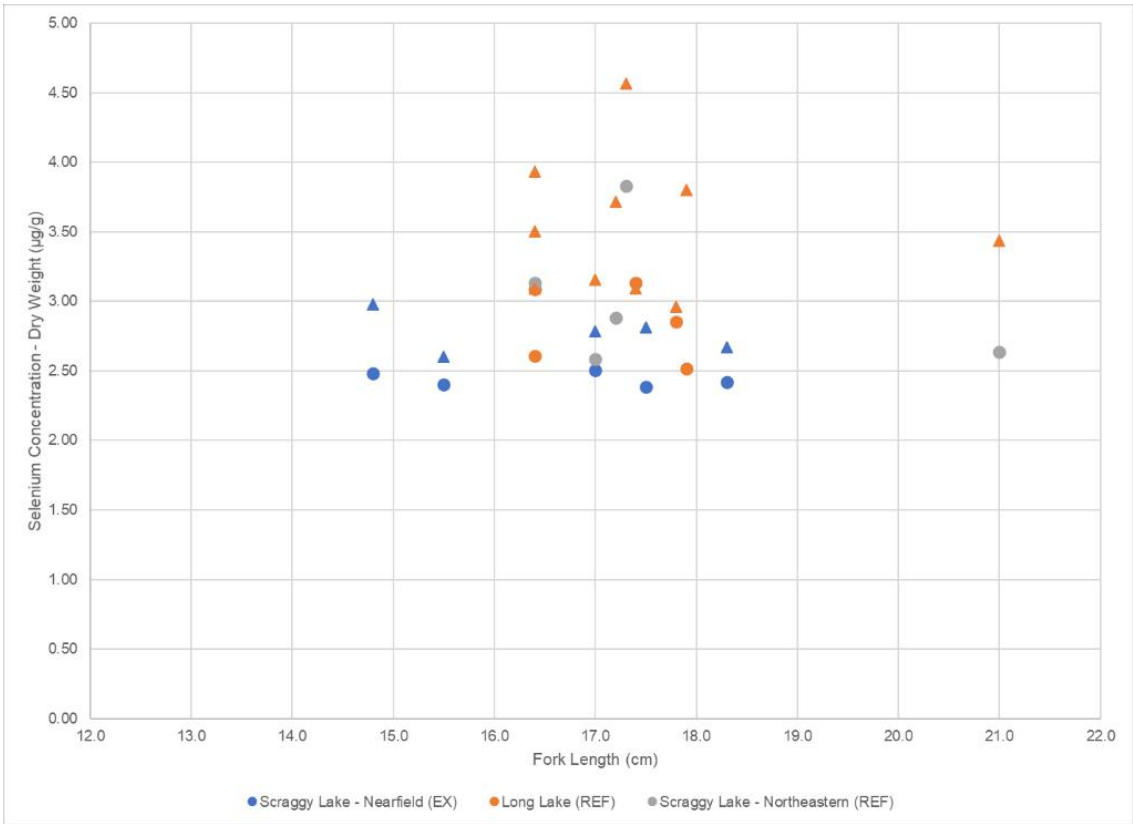

Figure 4 **Yellow Perch Skinless Muscle Fillet and Whole Body Selenium Concentrations in Relation to Fork Length (Circles represent whole body, triangles represent muscle fillet)**

CONCLUSIONS

Under MDMER, mercury concentrations for white sucker or yellow perch, as muscle fillets and whole-body samples at the exposure area, were below the threshold for “effect” under MDMER of 0.5 mg/kg relative to the reference areas. Mercury concentrations in whole body white sucker from both the exposure and reference areas were below the maximum concentration observed during baseline sampling (CRA 2007, Stantec 2018, 2019). At the exposure area, one out of five whole body and four out of five muscle tissue samples from yellow perch had mercury concentrations which were above the maximum concentration observed during baseline sampling (CRA 2007; Stantec 2018, 2019).

Selenium concentrations in both white sucker and yellow perch were below the USEPA 2016 aquatic life ambient criterion (US EPA 2016). Dry weight selenium concentrations in white sucker whole bodies or ovaries were not higher in fish from the exposure area when compared to the reference areas. Dry weight selenium concentrations in yellow perch fillets and whole bodies from the exposure area were below the maximum baseline value observed in 2018 (Stantec 2019).

REFERENCES

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Reference: **Supplemental Fish Tissue Study at Touquoy Mine, Nova Scotia**

CLOSURE

This document entitled Supplemental Fish Tissue Study at Touquoy Mine, NS was prepared by Stantec Consulting Ltd. ("Stantec") for the account of Atlantic Mining NS Inc. (the "Client"). Any reliance on this document by any third party is strictly prohibited. The material in it reflects Stantec's professional judgment in light of the scope, schedule and other limitations stated in the document and in the contract between Stantec and the Client. The opinions in the document are based on conditions and information existing at the time the document was published and do not take into account any subsequent changes. In preparing the document, Stantec did not verify information supplied to it by others. Any use which a third party makes of this document is the responsibility of such third party. Such third party agrees that Stantec shall not be responsible for costs or damages of any kind, if any, suffered by it or any other third party as a result of decisions made or actions taken based on this document.

Regards,

Stantec Consulting Ltd.

Originally Signed by

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Biologist
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Attachments: Attachment A - Figure
Attachment B - Tables
Attachment C – Laboratory Certificates

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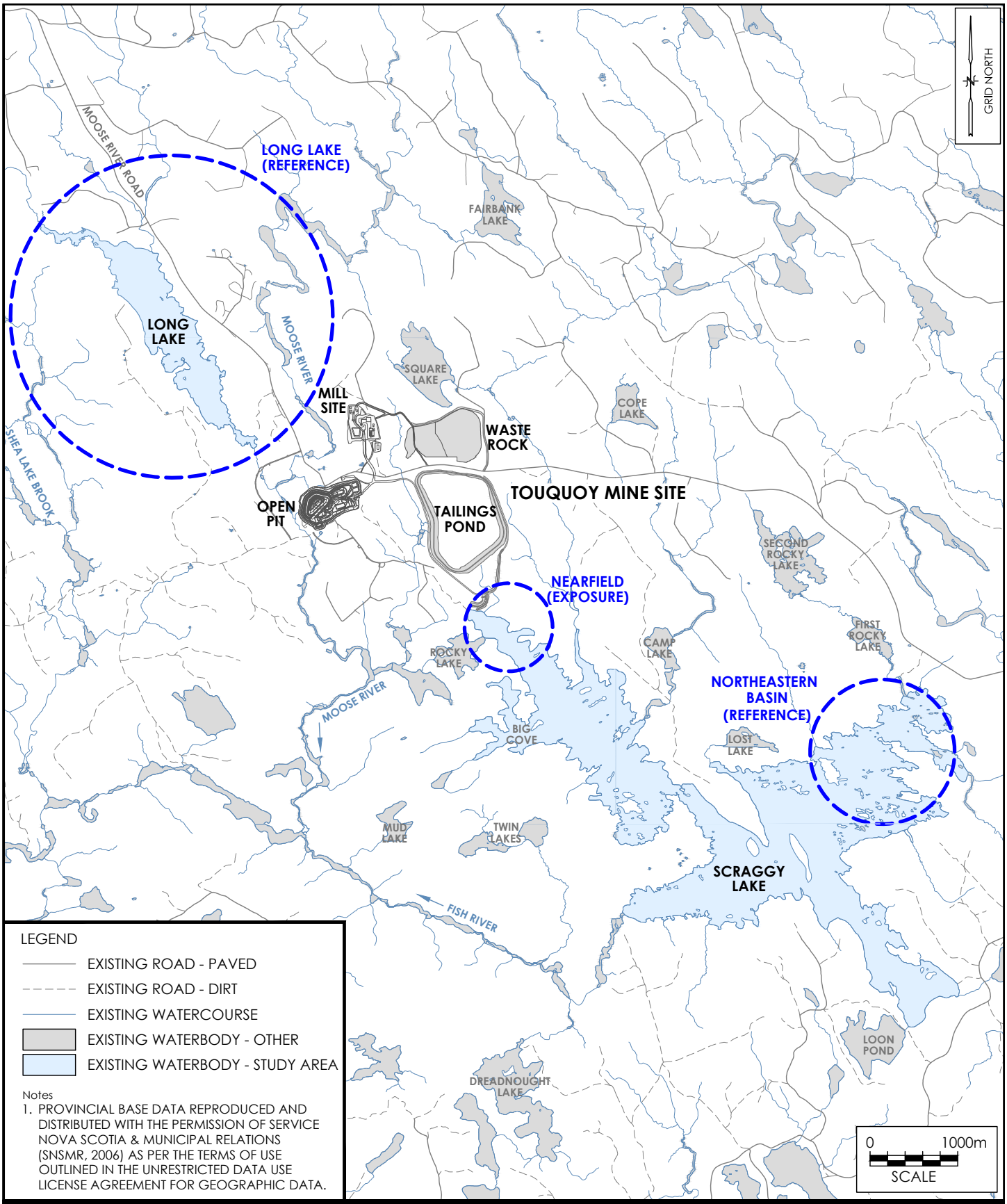
ATTACHMENT A
Figure



LEGEND

- EXISTING ROAD - PAVED
- EXISTING ROAD - DIRT
- EXISTING WATERCOURSE
- EXISTING WATERBODY - OTHER
- EXISTING WATERBODY - STUDY AREA

Notes

1. PROVINCIAL BASE DATA REPRODUCED AND DISTRIBUTED WITH THE PERMISSION OF SERVICE NOVA SCOTIA & MUNICIPAL RELATIONS (SNSMR, 2006) AS PER THE TERMS OF USE OUTLINED IN THE UNRESTRICTED DATA USE LICENSE AGREEMENT FOR GEOGRAPHIC DATA.

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Client/Project

ATLANTIC MINING NS, TOUQUOY MINE, NS
PHASE 1 ENVIRONMENTAL EFFECTS MONITORING PROGRAM

Project No.
121619250

Title

SAMPLING AREAS FOR TOUQUOY MINE
PHASE 1 EEM

Revision	Date
REV-1	2021.02.25
Reference Sheet	Figure No.
-	A-1

ATTACHMENT B
Tables

Table B.1 Trace Metal, Moisture and Fat Concentrations of Whole Body White Sucker (Minus Ovaries as Applicable) Collected for the Touquoy Mine in 2020.

Client Sample ID:			EX-WHSC-27	EX-WHSC-21	EX-WHSC-30	EX-WHSC-26	EX-WHSC-04	LL-WHSC-31	LL-WHSC-18	LL-WHSC-19	LL-WHSC-30	LL-WHSC-25	NE-WHSC-39	NE-WHSC-14	NE-WHSC-45	NE-WHSC-44	NE-WHSC-13
Date Sampled:			6-Oct-20	6-Oct-20	6-Oct-20	6-Oct-20	5-Oct-20	30-Sep-20	30-Sep-20	30-Sep-20	30-Sep-20	30-Sep-20	2-Oct-20	2-Oct-20	4-Oct-20	4-Oct-20	2-Oct-20
Analytes	Units	Reporting Limit															
Aluminum	mg/kg	0.05	17.7	7.38	7.27	10.9	8.82	9.66	11	20.6	17.8	8.35	12.6	5.49	11.5	20.3	7.6
Antimony	mg/kg	0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Arsenic	mg/kg	0.05	0.11	0.09	0.06	0.09	0.08	0.07	0.08	0.1	0.08	0.06	0.08	0.06	0.05	< 0.05	0.06
Barium	mg/kg	0.05	1.67	3.44	1.79	3.27	2.41	3.33	4.8	2.93	3.56	4.64	2.11	2.9	3	3.35	3.73
Beryllium	mg/kg	0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Bismuth	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Boron	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Cadmium	mg/kg	0.0005	0.0295	0.0129	0.0143	0.0256	0.0267	0.0299	0.0356	0.048	0.0566	0.0272	0.023	0.0176	0.0216	0.0236	0.0333
Calcium	mg/kg	2	11300	12500	11800	17200	16800	12800	17700	10900	15200	13100	8810	12600	8670	10800	10300
Chromium	mg/kg	0.05	< 0.05	< 0.05	< 0.05	0.09	< 0.05	< 0.05	< 0.05	0.09	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Cobalt	mg/kg	0.005	0.047	0.028	0.015	0.031	0.026	0.035	0.044	0.06	0.051	0.031	0.022	0.014	0.021	0.024	0.014
Copper	mg/kg	0.05	0.62	0.51	0.44	0.65	0.67	0.49	0.52	0.51	0.6	0.51	0.59	0.46	0.56	0.49	0.44
Iron	mg/kg	1	49	32	21	34	33	26	37	49	41	30	45	24	47	51	46
Lead	mg/kg	0.005	0.24	0.121	0.133	0.292	0.174	0.104	0.118	0.084	0.09	0.054	0.262	0.234	0.277	0.511	0.622
Lithium	mg/kg	0.005	0.015	0.007	0.006	0.01	0.009	0.012	0.014	0.027	0.017	0.012	0.01	0.006	0.012	0.018	0.009
Magnesium	mg/kg	0.5	341	369	329	395	396	352	399	338	353	358	309	373	304	340	328
Manganese	mg/kg	0.05	17.3	19.7	18.6	42.1	29.3	51.4	65.7	47	70.8	46.8	20.2	29.8	25.8	28.8	18.1
Mercury	mg/kg	0.01	0.28	0.16	0.15	0.18	0.17	0.1	0.22	0.09	0.17	0.18	0.21	0.14	0.15	0.26	0.26
Molybdenum	mg/kg	0.005	0.021	0.02	0.016	0.019	0.02	0.017	0.019	0.024	0.021	0.024	0.02	0.02	0.015	0.016	0.012
Nickel	mg/kg	0.05	< 0.05	< 0.05	< 0.05	0.06	0.06	< 0.05	< 0.05	0.07	< 0.05	< 0.05	< 0.05	0.06	< 0.05	0.06	< 0.05
Potassium	mg/kg	2	3530	3340	3190	3460	3370	3750	3700	3840	3400	3670	2790	2790	2650	2480	2780
Rubidium	mg/kg	0.005	3.53	2.7	2.07	2.51	2.22	5.01	6.37	5.83	5.74	7.53	4.43	3.29	2.44	3.21	1.75
Selenium	mg/kg	0.05	0.57	0.64	0.54	0.61	0.53	0.65	1.02	0.72	0.57	0.75	0.65	0.77	0.79	0.5	0.49
Silver	mg/kg	0.005	0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.006	< 0.005	< 0.005	< 0.005	0.006	0.007	< 0.005	0.008
Sodium	mg/kg	2	990	652	811	1130	964	725	1020	915	813	1030	936	958	1020	865	1150
Strontium	mg/kg	0.05	15	14.8	16.1	27.4	21.4	18.8	22.5	16.7	19.3	21.5	18.1	27.6	19.5	25.4	23.2
Tellurium	mg/kg	0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Thallium	mg/kg	0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Tin	mg/kg	0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Uranium	mg/kg	0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Vanadium	mg/kg	0.05	0.05	< 0.05	< 0.05	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.05	0.08	0.06	0.09	< 0.05
Zinc	mg/kg	0.05	16.9	16.7	15.5	17.4	18.5	14.6	18.3	15.8	14.2	14.5	16.3	14.9	15.8	16.6	14.4
Moisture	g/100g	0.3	80.2	79.2	80.2	80.7	80.1	80.6	80	78.1	79.2	78.8	77.8	78.1	80.5	80.1	77.7
Fat (Acid Hydrolysis)	g/100g	0.5	1.71	1.86	1.99	1.22	2.02	2.32	1.58	1.46	0.88	1.21	1.82	0.88	1.06	1.31	1.54
Selenium (dry weight)	mg/kg	0.05	2.88	3.08	2.73	3.16	2.66	3.35	5.10	3.29	2.74	3.54	2.93	3.52	4.05	2.51	2.20

Table B.2 Trace Metal, Moisture and Fat Concentrations of White Sucker Ovaries Collected for the Touquoy Mine in 2020

Client Sample ID:			EX-WHSC-27-OV	EX-WHSC-21-OV	EX-WHSC-30-OV	EX-WHSC-26-OV	EX-WHSC-04-OV	LL-WHSC-31	LL-WHSC-18	LL-WHSC-19	LL-WHSC-30	LL-WHSC-25-OV	NE-WHSC-39-OV	NE-WHSC-14-OV	NE-WHSC-45-OV	NE-WHSC-44-OV	NE-WHSC-13-OV
Date Sampled:			6-Oct-20	6-Oct-20	6-Oct-20	6-Oct-20	5-Oct-20	30-Sep-20	30-Sep-20	30-Sep-20	30-Sep-20	30-Sep-20	2-Oct-20	2-Oct-20	4-Oct-20	4-Oct-20	2-Oct-20
Analytes	Units	Reporting Limit															
Aluminum	mg/kg	0.05	0.76	0.48	0.93	0.83	0.68	-	-	-	-	3.48	0.45	0.55	0.94	0.77	2.01
Antimony	mg/kg	0.005	< 0.005	< 0.005	< 0.005	0.008	< 0.005	-	-	-	-	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.009
Arsenic	mg/kg	0.05	0.07	0.08	0.06	0.06	0.05	-	-	-	-	0.08	0.06	0.06	0.08	0.06	0.08
Barium	mg/kg	0.05	< 0.05	0.06	< 0.05	< 0.05	< 0.05	-	-	-	-	0.11	0.06	< 0.05	< 0.05	< 0.05	0.99
Beryllium	mg/kg	0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	-	-	-	-	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Bismuth	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Boron	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Cadmium	mg/kg	0.0005	0.0058	0.0022	0.0104	0.0118	0.0038	-	-	-	-	0.0078	0.0041	0.0041	0.0035	0.0093	0.0161
Calcium	mg/kg	2	447	338	341	419	358	-	-	-	-	371	380	386	353	340	35000
Chromium	mg/kg	0.05	< 0.05	0.08	< 0.05	< 0.05	< 0.05	-	-	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.15
Cobalt	mg/kg	0.005	0.05	0.043	0.04	0.05	0.044	-	-	-	-	0.056	0.037	0.03	0.027	0.031	0.026
Copper	mg/kg	0.05	2.61	3.69	2.19	2.78	2.28	-	-	-	-	2.33	2.27	1.99	1.89	2.14	0.52
Iron	mg/kg	1	31	27	30	34	22	-	-	-	-	28	30	27	27	33	18
Lead	mg/kg	0.005	0.01	0.02	0.007	< 0.005	0.008	-	-	-	-	0.016	0.015	0.013	0.009	0.015	0.097
Lithium	mg/kg	0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	-	-	-	-	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.018
Magnesium	mg/kg	0.5	378	365	310	351	340	-	-	-	-	372	350	324	353	301	642
Manganese	mg/kg	0.05	5.65	4.34	5.5	7.36	5.25	-	-	-	-	8.68	6.73	7.6	5.63	4.81	33.3
Mercury	mg/kg	0.01	0.06	0.01	0.03	0.03	0.03	-	-	-	-	0.04	0.05	0.04	0.03	0.05	0.46
Molybdenum	mg/kg	0.005	0.053	0.043	0.037	0.047	0.048	-	-	-	-	0.058	0.052	0.055	0.04	0.039	0.009
Nickel	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.12
Potassium	mg/kg	2	2710	2300	2520	2860	2550	-	-	-	-	2540	2960	2610	2360	2380	2890
Rubidium	mg/kg	0.005	2.85	1.88	1.61	2.12	1.67	-	-	-	-	5.26	3.81	2.58	1.73	2.57	5.61
Selenium	mg/kg	0.05	1.17	1.45	0.88	0.77	0.92	-	-	-	-	1.71	1.11	1.13	1.24	0.83	0.59
Silver	mg/kg	0.005	0.014	0.014	0.014	0.013	0.021	-	-	-	-	0.022	0.036	0.049	0.027	0.014	< 0.005
Sodium	mg/kg	2	904	475	726	1050	872	-	-	-	-	972	887	957	1070	878	1420
Strontium	mg/kg	0.05	0.14	0.21	0.17	0.14	0.17	-	-	-	-	0.29	0.23	0.29	0.17	0.18	27.6
Tellurium	mg/kg	0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	-	-	-	-	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Thallium	mg/kg	0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	-	-	-	-	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Tin	mg/kg	0.005	< 0.005	0.058	< 0.005	< 0.005	< 0.005	-	-	-	-	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.006
Uranium	mg/kg	0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	-	-	-	-	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Vanadium	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.06
Zinc	mg/kg	0.05	28	26	24.1	27.7	25.4	-	-	-	-	26.2	34.7	27.2	24.4	22.9	29.9
Moisture	g/100g	0.3	74.8	73.5	77.8	77.5	75.6	-	-	-	-	74.2	71.9	76.5	75.5	79	76.8
Fat (Acid Hydrolysis)	g/100g	0.5	2.88	3.38	2.99	1.96	2.06	-	-	-	-	2.54	3.65	1.73	2.27	1.55	1.79
Selenium (dry weight)	mg/kg	0.05	4.64	5.47	3.96	3.42	3.77	-	-	-	-	6.63	3.95	4.81	5.06	3.95	2.54

Table B.3 Calculated Trace Metal, Moisture and Fat Concentrations of Whole Body White Sucker Collected for the Touquoy Mine in 2020.

Client Sample ID:			EX-WHSC-27	EX-WHSC-21	EX-WHSC-30	EX-WHSC-26	EX-WHSC-04	LL-WHSC-31	LL-WHSC-18	LL-WHSC-19	LL-WHSC-30	LL-WHSC-25	NE-WHSC-39	NE-WHSC-14	NE-WHSC-45	NE-WHSC-44	NE-WHSC-13
Date Sampled:			6-Oct-20	6-Oct-20	6-Oct-20	6-Oct-20	5-Oct-20	30-Sep-20	30-Sep-20	30-Sep-20	30-Sep-20	30-Sep-20	2-Oct-20	2-Oct-20	4-Oct-20	4-Oct-20	2-Oct-20
Analytes	Units	Reporting Limit															
Aluminum	mg/kg	0.05	17.08	7.04	6.97	10.56	8.46	9.66	11.00	20.60	17.80	8.15	12.00	5.31	10.98	19.61	7.41
Antimony	mg/kg	0.005	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Arsenic	mg/kg	0.05	0.11	0.09	0.06	0.09	0.08	0.07	0.08	0.10	0.08	0.06	0.08	0.06	0.05	0.03	0.06
Barium	mg/kg	0.05	1.61	3.27	1.71	3.16	2.30	3.33	4.80	2.93	3.56	4.45	2.01	2.80	2.85	3.23	3.63
Beryllium	mg/kg	0.005	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Bismuth	mg/kg	0.05	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Boron	mg/kg	0.05	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Cadmium	mg/kg	0.0005	0.0286	0.0124	0.0141	0.0251	0.0257	0.0299	0.0356	0.0480	0.0566	0.0264	0.0221	0.0171	0.0207	0.0231	0.0327
Calcium	mg/kg	2	10900	11896	11263	16641	16065	12800	17700	10900	15200	12579	8396	12167	8262	10428	11161
Chromium	mg/kg	0.05	0.03	0.03	0.03	0.09	0.03	0.03	0.03	0.09	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Cobalt	mg/kg	0.005	0.047	0.029	0.016	0.032	0.027	0.035	0.044	0.060	0.051	0.032	0.023	0.015	0.021	0.024	0.014
Copper	mg/kg	0.05	0.69	0.67	0.52	0.72	0.74	0.49	0.52	0.51	0.60	0.58	0.67	0.51	0.63	0.55	0.44
Iron	mg/kg	1	48	32	21	34	33	26	37	49	41	30	44	24	46	50	45
Lead	mg/kg	0.005	0.232	0.116	0.127	0.282	0.167	0.104	0.118	0.084	0.090	0.052	0.250	0.226	0.264	0.493	0.604
Lithium	mg/kg	0.005	0.015	0.007	0.006	0.010	0.009	0.012	0.014	0.027	0.017	0.012	0.010	0.006	0.012	0.017	0.009
Magnesium	mg/kg	0.5	342.4	368.8	328.1	393.5	393.5	352.0	399.0	338.0	353.0	358.6	311.0	371.3	306.4	338.6	338.9
Manganese	mg/kg	0.05	16.87	18.94	17.99	40.94	28.22	51.40	65.70	47.00	70.80	45.24	19.54	29.01	24.81	27.95	18.63
Mercury	mg/kg	0.01	0.27	0.15	0.14	0.18	0.16	0.10	0.22	0.09	0.17	0.17	0.20	0.14	0.14	0.25	0.27
Molybdenum	mg/kg	0.005	0.022	0.021	0.017	0.020	0.021	0.017	0.019	0.024	0.021	0.025	0.022	0.021	0.016	0.017	0.012
Nickel	mg/kg	0.05	0.03	0.03	0.03	0.06	0.06	0.03	0.03	0.07	0.03	0.03	0.03	0.06	0.03	0.06	0.03
Potassium	mg/kg	2	3500	3288	3159	3440	3333	3750	3700	3840	3400	3624	2798	2784	2636	2476	2784
Rubidium	mg/kg	0.005	3.505	2.659	2.048	2.497	2.195	5.010	6.370	5.830	5.740	7.437	4.400	3.265	2.405	3.187	1.885
Selenium	mg/kg	0.05	0.59	0.68	0.56	0.62	0.55	0.65	1.02	0.72	0.57	0.79	0.67	0.78	0.81	0.51	0.49
Silver	mg/kg	0.005	0.005	0.003	0.003	0.003	0.003	0.003	0.003	0.006	0.003	0.003	0.004	0.008	0.008	0.003	0.008
Sodium	mg/kg	2	987	643	807	1127	960	725	1020	915	813	1028	934	958	1022	865	1159
Strontium	mg/kg	0.05	14.45	14.08	15.35	26.49	20.45	18.80	22.50	16.70	19.30	20.63	17.22	26.63	18.55	24.50	23.35
Tellurium	mg/kg	0.005	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Thallium	mg/kg	0.005	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Tin	mg/kg	0.005	0.003	0.005	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Uranium	mg/kg	0.005	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Vanadium	mg/kg	0.05	0.05	0.03	0.03	0.05	0.03	0.03	0.03	0.03	0.03	0.03	0.05	0.08	0.06	0.09	0.03
Zinc	mg/kg	0.05	17.31	17.16	15.90	17.74	18.81	14.60	18.30	15.80	14.20	14.98	17.20	15.34	16.22	16.82	14.94
Moisture	g/100g	0.3	80.0	78.9	80.1	80.6	79.9	80.6	80.0	78.1	79.2	78.6	77.5	78.0	80.3	80.1	77.7
Fat (Acid Hydrolysis)	g/100g	0.5	1.8	1.9	2.0	1.2	2.0	2.3	1.6	1.5	0.9	1.3	1.9	0.9	1.1	1.3	1.5
Selenium (dry weight)	mg/kg	0.05	2.96	3.23	2.79	3.17	2.72	3.35	5.10	3.29	2.74	3.69	2.99	3.57	4.11	2.57	2.21

Table B.4 Trace Metal, Moisture and Fat Concentrations of Yellow Perch Muscle Fillets Collected for the Touquoy Mine In 2020.

Client Sample ID:			EX-YLPR-26-MUS	EX-YLPR-27-MUS	EX-YLPR-29-MUS	EX-YLPR-30-MUS	EX-YLPR-28-MUS	LL-YLPR-13-MUS	LL-YLPR-32-MUS	L-YLPR-33-MU	LL-YLPR-34-MUS	LL-YLPR-35-MUS	NE-YLPR-02-MUS	NE-YLPR-03-MUS	NE-YLPR-09-MUS	NE-YLPR-14-MUS	NE-YLPR-17-MUS
Date Sampled:			5-Oct-20	5-Oct-20	6-Oct-20	6-Oct-20	6-Oct-20	30-Sep-20	1-Oct-20	1-Oct-20	1-Oct-20	1-Oct-20	2-Oct-20	2-Oct-20	2-Oct-20	2-Oct-20	2-Oct-20
Analytes	Units	Reporting Limit															
Aluminum	mg/kg	0.05	0.09	0.12	0.22	0.29	0.19	0.3	0.23	0.22	0.28	0.24	0.24	0.62	0.15	0.08	0.24
Antimony	mg/kg	0.005	< 0.005	0.008	< 0.005	< 0.005	< 0.005	0.009	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.032
Arsenic	mg/kg	0.05	0.06	0.06	< 0.05	< 0.05	0.06	0.09	0.06	< 0.05	0.1	0.06	< 0.05	< 0.05	0.06	< 0.05	< 0.05
Barium	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.36	0.24	0.19	0.16	0.29	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Beryllium	mg/kg	0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Bismuth	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Boron	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Cadmium	mg/kg	0.0005	0.0009	0.0009	0.002	0.0021	0.0011	0.0061	0.0025	0.002	0.0049	0.003	0.0009	0.0019	0.0009	0.0006	0.0014
Calcium	mg/kg	2	197	459	483	731	501	3730	1790	1780	2280	1910	277	625	306	229	512
Chromium	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Cobalt	mg/kg	0.005	0.006	0.005	0.014	0.016	0.009	0.012	0.011	0.007	0.011	0.011	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Copper	mg/kg	0.05	0.34	1.18	0.56	1.15	0.38	2.12	1.05	0.38	0.51	0.87	0.48	0.46	0.67	0.6	0.78
Iron	mg/kg	1	3	4	4	4	3	12	9	2	4	3	3	3	2	3	4
Lead	mg/kg	0.005	< 0.005	0.039	0.025	0.02	0.007	0.099	0.023	0.007	0.022	0.009	0.01	0.012	0.007	0.037	0.011
Lithium	mg/kg	0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.008	0.006	0.006	0.006	0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Magnesium	mg/kg	0.5	242	298	274	258	256	333	278	271	278	288	266	290	268	263	295
Manganese	mg/kg	0.05	0.18	0.36	0.7	0.68	0.36	11.1	6.05	6.93	7.49	11.1	0.2	0.56	0.28	0.15	0.53
Mercury	mg/kg	0.01	0.9	0.58	0.91	0.97	0.88	0.32	0.47	0.28	0.49	0.39	0.43	0.48	0.79	0.52	0.6
Molybdenum	mg/kg	0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.005
Nickel	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.36	< 0.05	< 0.05
Potassium	mg/kg	2	3990	4370	4310	4180	4290	4000	3650	3530	3580	3900	3810	3790	3870	3550	4840
Rubidium	mg/kg	0.005	7.08	7.61	7.49	6.35	6.83	7.71	6.63	10.1	9.19	8.14	7.03	4.95	7.77	6.46	8.32
Selenium	mg/kg	0.05	0.51	0.62	0.55	0.5	0.56	0.81	0.69	0.58	0.76	0.64	0.75	0.94	0.69	0.59	0.87
Silver	mg/kg	0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Sodium	mg/kg	2	406	546	546	622	569	656	573	611	662	602	433	542	474	282	491
Strontium	mg/kg	0.05	0.12	0.26	0.37	0.48	0.41	4.29	2.34	2.18	2.62	2.23	0.25	0.96	0.43	0.27	0.63
Tellurium	mg/kg	0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Thallium	mg/kg	0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Tin	mg/kg	0.005	< 0.005	0.009	0.007	0.011	< 0.005	0.065	0.025	< 0.005	0.008	0.01	< 0.005	< 0.005	< 0.005	0.015	0.01
Uranium	mg/kg	0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Vanadium	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Zinc	mg/kg	0.05	3.66	5.1	4.48	4.72	4.42	6.89	5.18	4.68	4.96	4.59	4.56	4.92	4.32	3.52	4.63
Moisture	g/100g	0.30	81.7	79.2	79.4	80.8	80.1	79.4	80.3	80.4	80	79.3	79.8	79.4	79.9	81.3	79
Fat (Acid Hydrolysis)	g/100g	0.50	< 0.50	< 0.50	0.58	< 0.50	0.51	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	0.53	< 0.50	0.61	0.56	0.7
Selenium (dry weight)	mg/kg	0.05	2.79	2.98	2.67	2.60	2.81	3.93	3.50	2.96	3.80	3.09	3.71	4.56	3.43	3.16	4.14

Table B.5 Trace Metal, Moisture and Fat Concentrations of Yellow Perch Caracasses Collected for the Touquoy Mine in 2020

Client Sample ID:			EX-YLPR-26-CAR	EX-YLPR-27-CAR	EX-YLPR-29-CAR	EX-YLPR-30-CAR	EX-YLPR-28-CAR	LL-YLPR-13-CAR	LL-YLPR-32-CAR	LL-YLPR-33-CAR	LL-YLPR-34-CAR	LL-YLPR-35-CAR	NE-YLPR-02-CAR	NE-YLPR-03-CAR	NE-YLPR-09-CAR	NE-YLPR-14-CAR	NE-YLPR-17-CAR
Date Sampled:			5-Oct-20	5-Oct-20	6-Oct-20	6-Oct-20	6-Oct-20	30-Sep-20	1-Oct-20	1-Oct-20	1-Oct-20	1-Oct-20	2-Oct-20	2-Oct-20	2-Oct-20	2-Oct-20	2-Oct-20
Analytes	Units	Reporting Limit															
Aluminum	mg/kg	0.05	1.66	8.91	1.31	1.62	1.81	13.8	3.59	3.61	10.1	2.22	4	2.6	2.68	1.57	1.54
Antimony	mg/kg	0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.005	< 0.005	< 0.005
Arsenic	mg/kg	0.05	0.07	0.09	0.11	0.1	0.1	0.07	< 0.05	0.05	< 0.05	0.08	0.05	< 0.05	0.05	< 0.05	< 0.05
Barium	mg/kg	0.05	0.64	1.27	0.81	1.05	0.78	3.43	3.64	3.44	4.99	2.48	1.18	1.71	1.61	1.31	0.98
Beryllium	mg/kg	0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Bismuth	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Boron	mg/kg	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Cadmium	mg/kg	0.0005	0.0231	0.0117	0.0225	0.0223	0.0181	0.0939	0.0351	0.0328	0.0557	0.0397	0.0164	0.0363	0.0204	0.0118	0.0178
Calcium	mg/kg	2	22200	39300	23400	25900	29000	30300	27000	28300	35600	33300	32200	30600	34100	22200	27800
Chromium	mg/kg	0.05	0.15	< 0.05	< 0.05	< 0.05	< 0.05	0.1	< 0.05	0.08	< 0.05	< 0.05	0.13	< 0.05	< 0.05	< 0.05	< 0.05
Cobalt	mg/kg	0.005	0.034	0.009	0.044	0.075	0.029	0.039	0.037	0.019	0.042	0.029	0.006	0.015	< 0.005	< 0.005	0.008
Copper	mg/kg	0.05	0.7	0.72	0.59	0.85	0.54	2.25	0.79	0.54	1.12	0.46	0.6	1.92	0.51	0.49	0.48
Iron	mg/kg	1	31	22	21	28	24	50	29	28	34	24	23	32	20	18	21
Lead	mg/kg	0.005	0.065	0.065	0.067	0.096	0.095	0.201	0.104	0.066	0.101	0.131	0.153	0.33	0.182	0.117	0.138
Lithium	mg/kg	0.005	0.012	0.017	0.013	0.015	0.015	0.052	0.041	0.039	0.055	0.048	0.022	0.023	0.028	0.016	0.019
Magnesium	mg/kg	0.5	439	680	448	489	522	552	514	517	604	595	602	536	620	428	553
Manganese	mg/kg	0.05	22.4	20.5	31.6	24.4	18.5	117	107	115	205	125	14.7	20.5	17.8	9.04	19.1
Mercury	mg/kg	0.01	0.47	0.25	0.4	0.43	0.41	0.13	0.26	0.15	0.18	0.2	0.2	0.25	0.36	0.28	0.3
Molybdenum	mg/kg	0.005	0.009	0.011	0.014	0.009	0.009	0.016	0.01	0.026	0.013	0.009	0.008	0.007	0.031	0.023	0.007
Nickel	mg/kg	0.05	1.83	0.12	0.07	0.1	0.07	0.09	0.08	0.06	0.1	0.12	0.1	0.06	< 0.05	0.07	0.06
Potassium	mg/kg	2	2870	2950	3100	2880	3000	2730	2650	2710	2900	2740	2840	2860	3070	2660	3090
Rubidium	mg/kg	0.005	5.51	5.54	5.18	4.65	4.87	5.65	5.09	8.05	6.54	7.21	5.53	3.91	6.21	4.87	6.31
Selenium	mg/kg	0.05	0.65	0.68	0.6	0.62	0.61	0.77	0.64	0.7	0.59	0.79	0.72	0.97	0.67	0.65	0.83
Silver	mg/kg	0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Sodium	mg/kg	2	1330	1430	1140	1670	1300	1160	1020	1050	1170	1150	1210	1300	1290	939	1270
Strontium	mg/kg	0.05	17.2	21.9	23.3	25.2	29.9	40.2	39	38.6	46.1	41	33.9	53.1	49.9	32.8	38.9
Tellurium	mg/kg	0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Thallium	mg/kg	0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.007	< 0.005	0.006	0.007	0.006	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Tin	mg/kg	0.005	< 0.005	< 0.005	< 0.005	0.014	< 0.005	0.048	< 0.005	< 0.005	0.01	< 0.005	< 0.005	0.036	< 0.005	< 0.005	< 0.005
Uranium	mg/kg	0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Vanadium	mg/kg	0.05	< 0.05	0.13	0.05	0.08	0.09	0.09	0.1	0.06	0.07	0.08	0.34	0.22	0.1	0.1	0.2
Zinc	mg/kg	0.05	27.8	36.6	25.1	32	27.1	36	26.3	27.8	30.7	25	26.5	28.8	27.3	19.6	27.1
Moisture	g/100g	0.3	72.9	70.3	74.7	73.5	73.2	71.7	71.3	75.1	71.7	74.9	72.2	73.2	71.8	72.9	72.6
Fat (Acid Hydrolysis)	g/100g	0.5	1.4	2.56	2.69	0.99	1.45	4.48	4.35	3.08	4.74	1.65	4.57	3.66	2.15	3.74	3.67
Selenium (dry weight)	mg/kg	0.05	2.40	2.29	2.37	2.34	2.28	2.72	2.23	2.81	2.08	3.15	2.59	3.62	2.38	2.40	3.03

Table B.6 Calculated Trace Metal, Moisture and Fat Concentrations of Whole Body Yellow Perch Collected for the Touquoy Mine In 2020.

RPC Sample ID:			376560-17	376560-18	376560-19	376560-20	376560-21	376560-27	376560-28	376560-29	376560-30	376560-31	376560-37	376560-38	376560-39	376560-40	376560-41
Client Sample ID:			EX-YLPR-26	EX-YLPR-27	EX-YLPR-29	EX-YLPR-30	EX-YLPR-28	LL-YLPR-13	LL-YLPR-32	LL-YLPR-33	LL-YLPR-34	LL-YLPR-35	NE-YLPR-02	NE-YLPR-03	NE-YLPR-09	NE-YLPR-14	NE-YLPR-17
Date Sampled:			5-Oct-20	5-Oct-20	6-Oct-20	6-Oct-20	6-Oct-20	30-Sep-20	1-Oct-20	1-Oct-20	1-Oct-20	1-Oct-20	2-Oct-20	2-Oct-20	2-Oct-20	2-Oct-20	2-Oct-20
Analytes	Units	Reporting Limit															
Aluminum	mg/kg	0.05	1.11	5.75	1.11	1.23	1.40	8.79	2.31	2.44	6.92	1.57	2.78	2.06	1.89	1.10	1.13
Antimony	mg/kg	0.005	0.003	0.004	0.003	0.003	0.003	0.005	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.003	0.012
Arsenic	mg/kg	0.05	0.07	0.08	0.09	0.08	0.09	0.08	0.04	0.04	0.05	0.07	0.04	0.03	0.05	0.03	0.03
Barium	mg/kg	0.05	0.42	0.82	0.66	0.75	0.59	2.29	2.34	2.32	3.42	1.76	0.81	1.25	1.11	0.90	0.68
Beryllium	mg/kg	0.005	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Bismuth	mg/kg	0.05	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Boron	mg/kg	0.05	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Cadmium	mg/kg	0.0005	0.0153	0.0078	0.0187	0.0163	0.0138	0.0613	0.0227	0.0222	0.0392	0.0277	0.0114	0.0270	0.0143	0.0082	0.0127
Calcium	mg/kg	2	14445	25331	19110	18437	21793	20433	17376	19153	24801	23016	21839	22498	23520	15214	19276
Chromium	mg/kg	0.05	0.11	0.03	0.03	0.03	0.03	0.07	0.03	0.06	0.03	0.03	0.10	0.03	0.03	0.03	0.03
Cobalt	mg/kg	0.005	0.024	0.008	0.038	0.058	0.024	0.029	0.027	0.015	0.032	0.023	0.005	0.012	0.003	0.003	0.006
Copper	mg/kg	0.05	0.57	0.89	0.58	0.94	0.50	2.20	0.89	0.48	0.92	0.59	0.56	1.53	0.56	0.52	0.57
Iron	mg/kg	1	21	16	18	21	19	36	21	19	24	17	17	24	14	13	16
Lead	mg/kg	0.005	0.043	0.056	0.059	0.073	0.073	0.163	0.073	0.046	0.075	0.091	0.107	0.244	0.127	0.092	0.098
Lithium	mg/kg	0.005	0.009	0.012	0.011	0.011	0.012	0.036	0.028	0.028	0.039	0.034	0.016	0.017	0.020	0.012	0.014
Magnesium	mg/kg	0.5	369.6	542.6	415.4	420.5	454.7	470.7	423.9	432.2	498.3	494.4	492.9	469.5	509.8	375.5	472.4
Manganese	mg/kg	0.05	14.57	13.26	25.82	17.37	13.91	77.67	68.46	77.73	140.99	87.69	9.99	15.11	12.32	6.21	13.30
Mercury	mg/kg	0.01	0.62	0.37	0.50	0.59	0.53	0.20	0.34	0.19	0.28	0.26	0.27	0.31	0.49	0.36	0.39
Molybdenum	mg/kg	0.005	0.007	0.008	0.012	0.007	0.007	0.012	0.007	0.018	0.010	0.007	0.006	0.006	0.022	0.016	0.006
Nickel	mg/kg	0.05	1.19	0.09	0.06	0.08	0.06	0.07	0.06	0.05	0.08	0.09	0.08	0.05	0.13	0.06	0.05
Potassium	mg/kg	2	3265	3461	3326	3265	3326	3202	3032	2993	3120	3120	3155	3111	3320	2943	3637
Rubidium	mg/kg	0.005	6.063	6.284	5.612	5.154	5.366	6.415	5.678	8.757	7.399	7.515	6.017	4.191	6.698	5.376	6.938
Selenium	mg/kg	0.05	0.60	0.66	0.59	0.58	0.60	0.78	0.66	0.66	0.65	0.74	0.73	0.96	0.68	0.63	0.84
Silver	mg/kg	0.005	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Sodium	mg/kg	2	1004	1112	1029	1359	1115	973	849	899	1005	970	958	1095	1035	730	1027
Strontium	mg/kg	0.05	11.18	14.12	19.01	17.87	22.44	26.86	25.00	26.04	32.01	28.30	22.98	39.01	34.41	22.46	26.95
Tellurium	mg/kg	0.005	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Thallium	mg/kg	0.005	0.003	0.003	0.003	0.003	0.003	0.005	0.003	0.005	0.006	0.005	0.003	0.003	0.003	0.003	0.003
Tin	mg/kg	0.005	0.003	0.005	0.003	0.013	0.003	0.054	0.011	0.003	0.009	0.005	0.003	0.027	0.003	0.006	0.005
Uranium	mg/kg	0.005	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Vanadium	mg/kg	0.05	0.03	0.09	0.05	0.06	0.07	0.07	0.07	0.05	0.06	0.06	0.24	0.17	0.08	0.08	0.15
Zinc	mg/kg	0.05	19.29	25.27	21.24	23.91	21.36	25.19	18.24	19.83	22.36	18.31	19.38	22.35	20.11	14.49	20.08
Moisture	g/100g	0.3	76.00	73.50	75.58	75.66	74.94	74.56	74.74	76.93	74.39	76.34	74.67	74.88	74.34	75.57	74.60
Fat (Acid Hydrolysis)	g/100g	0.5	0.99	1.73	2.30	0.77	1.21	2.91	2.78	2.10	3.28	1.19	3.26	2.74	1.67	2.73	2.74
Selenium (dry weight)	mg/kg	0.05	2.50	2.48	2.42	2.40	2.38	3.09	2.61	2.85	2.52	3.13	2.88	3.83	2.64	2.58	3.32

Table B.7 Biological Characteristics of Fish for Fish Tissue Study, Touquoy Mine in 2020.

White Sucker	Fish ID	EX-WHSC-27	EX-WHSC-21	EX-WHSC-30	EX-WHSC-26	EX-WHSC-04	LL-WHSC-31	LL-WHSC-18	LL-WHSC-19	LL-WHSC-30	LL-WHSC-25	NE-WHSC-39	NE-WHSC-14	NE-WHSC-45	NE-WHSC-44	NE-WHSC-13
	Fork Length (cm)	31.8	28.5	31.1	31.5	32.5	26.7	30.0	27.0	32.6	34.2	37.0	31.1	37.0	33.0	35.5
	Total Body Weight (g)	380.000	255.520	360.000	350	420.000	233.02	380	264.35	470	520	610.00	370	610.00	460.00	450
	Gonad Weight (g)	14.016	12.682	16.868	11.655	18.777	15.372	21.282	18.814	31.153	21.270	29.942	13.128	29.942	16.366	15.683
	Fish ID	EX-YLPR-26	EX-YLPR-27	EX-YLPR-29	EX-YLPR-30	EX-YLPR-28	LL-YLPR-13	LL-YLPR-32	LL-YLPR-33	LL-YLPR-34	LL-YLPR-35	NE-YLPR-02	NE-YLPR-03	NE-YLPR-09	NE-YLPR-14	NE-YLPR-17
Yellow Perch	Fork Length (cm)	17.0	14.8	18.3	15.5	17.5	16.4	16.4	17.8	17.9	17.4	16.4	17.2	17.3	21.0	17.0
	Muscle Fillet Weight (g)	20.71	12.07	14.58	11.19	16.63	20.73	22.36	27.3	20.8	21.17	16.9	16.5	18.1	37.3	18.7
	Total Body Weight (g)	58.760	33.560	77.890	37.740	65.760	55.82	58.57	79.15	64.18	64.62	52.0	61.1	57.7	117.2	60.0
	Carcass Weight (g)	38.050	21.490	63.310	26.550	49.130	35.090	36.210	51.850	43.380	43.450	35.150	44.600	39.650	79.930	41.250

ATTACHMENT C
Laboratory Certificates

Report ID: 376560-IAS
Report Date: 09-Dec-20
Date Received: 23-Nov-20

CERTIFICATE OF ANALYSIS

for
Stantec Consulting Ltd
845 Prospect Street
Fredericton, NB E3B 2T7

rpc
921 College Hill Rd
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Canada E3B 6Z9
Tel: 506.452.1212
Fax: 506.452.0594
www.rpc.ca

Attention: Jenny Reid
Project #: 121619250.200.950.1401
Location: Nova Scotia

Analysis of Samples

RPC Sample ID:			376560-01	376560-01 Dup	376560-02
Client Sample ID:			EX-WHSC-27	Lab Duplicate	EX-WHSC-21
Date Sampled:			6-Oct-20	6-Oct-20	6-Oct-20
Analytes	**Units**	**RL**			
Aluminum	mg/kg	0.05	17.7	22.9	7.38
Antimony	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Arsenic	mg/kg	0.05	0.11	0.12	0.09
Barium	mg/kg	0.05	1.67	1.76	3.44
Beryllium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Bismuth	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Boron	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Cadmium	mg/kg	0.0005	0.0295	0.0251	0.0129
Calcium	mg/kg	2	11300	14300	12500
Chromium	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Cobalt	mg/kg	0.005	0.047	0.049	0.028
Copper	mg/kg	0.05	0.62	0.57	0.51
Iron	mg/kg	1	49	72	32
Lead	mg/kg	0.005	0.240	0.261	0.121
Lithium	mg/kg	0.005	0.015	0.017	0.007
Magnesium	mg/kg	0.5	341.	368.	369.
Manganese	mg/kg	0.05	17.3	17.7	19.7
Mercury	mg/kg	0.01	0.28	0.29	0.16
Molybdenum	mg/kg	0.005	0.021	0.023	0.020
Nickel	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Potassium	mg/kg	2	3530	3540	3340
Rubidium	mg/kg	0.005	3.53	3.58	2.70
Selenium	mg/kg	0.05	0.57	0.57	0.64
Silver	mg/kg	0.005	0.005	< 0.005	< 0.005
Sodium	mg/kg	2	990	972	652
Strontium	mg/kg	0.05	15.0	17.2	14.8
Tellurium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Thallium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Tin	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Uranium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Vanadium	mg/kg	0.05	0.05	0.06	< 0.05
Zinc	mg/kg	0.05	16.9	17.4	16.7

This report relates only to the sample(s) and information provided to the laboratory.

RL = Reporting Limit

Peter Crowhurst, B.Sc., C.Chem.
Director
Inorganic Analytical Chemistry

Brannen Burhoe
Supervisor
Inorganic Analytical Services

Report ID: 376560-IAS
Report Date: 09-Dec-20
Date Received: 23-Nov-20

CERTIFICATE OF ANALYSIS

for
Stantec Consulting Ltd
845 Prospect Street
Fredericton, NB E3B 2T7

rpc
921 College Hill Rd
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Canada E3B 6Z9
Tel: 506.452.1212
Fax: 506.452.0594
www.rpc.ca

Attention: Jenny Reid
Project #: 121619250.200.950.1401
Location: Nova Scotia

Analysis of Samples

RPC Sample ID:			376560-03	376560-04	376560-05
Client Sample ID:			EX-WHSC-30	EX-WHSC-26	EX-WHSC-04
Date Sampled:			6-Oct-20	6-Oct-20	5-Oct-20
Analytes	**Units**	**RL**			
Aluminum	mg/kg	0.05	7.27	10.9	8.82
Antimony	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Arsenic	mg/kg	0.05	0.06	0.09	0.08
Barium	mg/kg	0.05	1.79	3.27	2.41
Beryllium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Bismuth	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Boron	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Cadmium	mg/kg	0.0005	0.0143	0.0256	0.0267
Calcium	mg/kg	2	11800	17200	16800
Chromium	mg/kg	0.05	< 0.05	0.09	< 0.05
Cobalt	mg/kg	0.005	0.015	0.031	0.026
Copper	mg/kg	0.05	0.44	0.65	0.67
Iron	mg/kg	1	21	34	33
Lead	mg/kg	0.005	0.133	0.292	0.174
Lithium	mg/kg	0.005	0.006	0.010	0.009
Magnesium	mg/kg	0.5	329.	395.	396.
Manganese	mg/kg	0.05	18.6	42.1	29.3
Mercury	mg/kg	0.01	0.15	0.18	0.17
Molybdenum	mg/kg	0.005	0.016	0.019	0.020
Nickel	mg/kg	0.05	< 0.05	0.06	0.06
Potassium	mg/kg	2	3190	3460	3370
Rubidium	mg/kg	0.005	2.07	2.51	2.22
Selenium	mg/kg	0.05	0.54	0.61	0.53
Silver	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Sodium	mg/kg	2	811	1130	964
Strontium	mg/kg	0.05	16.1	27.4	21.4
Tellurium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Thallium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Tin	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Uranium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Vanadium	mg/kg	0.05	< 0.05	0.05	< 0.05
Zinc	mg/kg	0.05	15.5	17.4	18.5

Report ID: 376560-IAS
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CERTIFICATE OF ANALYSIS

for
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Tel: 506.452.1212
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www.rpc.ca

Attention: Jenny Reid
Project #: 121619250.200.950.1401
Location: Nova Scotia

Analysis of Samples

RPC Sample ID:			376560-05 Dup	376560-06	376560-07
Client Sample ID:			Lab Duplicate	EX-WHSC-27-OV	EX-WHSC-21-OV
Date Sampled:			5-Oct-20	6-Oct-20	6-Oct-20
Analytes	**Units**	**RL**			
Aluminum	mg/kg	0.05	9.18	0.76	0.48
Antimony	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Arsenic	mg/kg	0.05	0.07	0.07	0.08
Barium	mg/kg	0.05	2.15	< 0.05	0.06
Beryllium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Bismuth	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Boron	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Cadmium	mg/kg	0.0005	0.0260	0.0058	0.0022
Calcium	mg/kg	2	14100	447	338
Chromium	mg/kg	0.05	< 0.05	< 0.05	0.08
Cobalt	mg/kg	0.005	0.028	0.050	0.043
Copper	mg/kg	0.05	0.65	2.61	3.69
Iron	mg/kg	1	31	31	27
Lead	mg/kg	0.005	0.170	0.010	0.020
Lithium	mg/kg	0.005	0.008	< 0.005	< 0.005
Magnesium	mg/kg	0.5	380.	378.	365.
Manganese	mg/kg	0.05	25.1	5.65	4.34
Mercury	mg/kg	0.01	0.18	0.06	0.01
Molybdenum	mg/kg	0.005	0.020	0.053	0.043
Nickel	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Potassium	mg/kg	2	3400	2710	2300
Rubidium	mg/kg	0.005	2.20	2.85	1.88
Selenium	mg/kg	0.05	0.52	1.17	1.45
Silver	mg/kg	0.005	< 0.005	0.014	0.014
Sodium	mg/kg	2	981	904	475
Strontium	mg/kg	0.05	17.7	0.14	0.21
Tellurium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Thallium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Tin	mg/kg	0.005	< 0.005	< 0.005	0.058
Uranium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Vanadium	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Zinc	mg/kg	0.05	17.5	28.0	26.0

Report ID: 376560-IAS
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CERTIFICATE OF ANALYSIS

for
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Tel: 506.452.1212
Fax: 506.452.0594
www.rpc.ca

Attention: Jenny Reid
Project #: 121619250.200.950.1401
Location: Nova Scotia

Analysis of Samples

RPC Sample ID:			376560-08	376560-09	376560-10
Client Sample ID:			EX-WHSC-30-OV	EX-WHSC-26-OV	EX-WHSC-04-OV
Date Sampled:			6-Oct-20	6-Oct-20	5-Oct-20
Analytes	**Units**	**RL**			
Aluminum	mg/kg	0.05	0.93	0.83	0.68
Antimony	mg/kg	0.005	< 0.005	0.008	< 0.005
Arsenic	mg/kg	0.05	0.06	0.06	0.05
Barium	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Beryllium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Bismuth	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Boron	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Cadmium	mg/kg	0.0005	0.0104	0.0118	0.0038
Calcium	mg/kg	2	341	419	358
Chromium	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Cobalt	mg/kg	0.005	0.040	0.050	0.044
Copper	mg/kg	0.05	2.19	2.78	2.28
Iron	mg/kg	1	30	34	22
Lead	mg/kg	0.005	0.007	< 0.005	0.008
Lithium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Magnesium	mg/kg	0.5	310.	351.	340.
Manganese	mg/kg	0.05	5.50	7.36	5.25
Mercury	mg/kg	0.01	0.03	0.03	0.03
Molybdenum	mg/kg	0.005	0.037	0.047	0.048
Nickel	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Potassium	mg/kg	2	2520	2860	2550
Rubidium	mg/kg	0.005	1.61	2.12	1.67
Selenium	mg/kg	0.05	0.88	0.77	0.92
Silver	mg/kg	0.005	0.014	0.013	0.021
Sodium	mg/kg	2	726	1050	872
Strontium	mg/kg	0.05	0.17	0.14	0.17
Tellurium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Thallium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Tin	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Uranium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Vanadium	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Zinc	mg/kg	0.05	24.1	27.7	25.4

Report ID: 376560-IAS
Report Date: 09-Dec-20
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CERTIFICATE OF ANALYSIS

for
Stantec Consulting Ltd
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Fredericton, NB E3B 2T7

rpc
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Fredericton NB
Canada E3B 6Z9
Tel: 506.452.1212
Fax: 506.452.0594
www.rpc.ca

Attention: Jenny Reid
Project #: 121619250.200.950.1401
Location: Nova Scotia

Analysis of Samples

RPC Sample ID:			376560-11	376560-12	376560-13
Client Sample ID:			LL-WHSC-25-OV	NE-WHSC-39-OV	NE-WHSC-14-OV
Date Sampled:			30-Sep-20	2-Oct-20	2-Oct-20
Analytes	**Units**	**RL**			
Aluminum	mg/kg	0.05	3.48	0.45	0.55
Antimony	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Arsenic	mg/kg	0.05	0.08	0.06	0.06
Barium	mg/kg	0.05	0.11	0.06	< 0.05
Beryllium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Bismuth	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Boron	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Cadmium	mg/kg	0.0005	0.0078	0.0041	0.0041
Calcium	mg/kg	2	371	380	386
Chromium	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Cobalt	mg/kg	0.005	0.056	0.037	0.030
Copper	mg/kg	0.05	2.33	2.27	1.99
Iron	mg/kg	1	28	30	27
Lead	mg/kg	0.005	0.016	0.015	0.013
Lithium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Magnesium	mg/kg	0.5	372.	350.	324.
Manganese	mg/kg	0.05	8.68	6.73	7.60
Mercury	mg/kg	0.01	0.04	0.05	0.04
Molybdenum	mg/kg	0.005	0.058	0.052	0.055
Nickel	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Potassium	mg/kg	2	2540	2960	2610
Rubidium	mg/kg	0.005	5.26	3.81	2.58
Selenium	mg/kg	0.05	1.71	1.11	1.13
Silver	mg/kg	0.005	0.022	0.036	0.049
Sodium	mg/kg	2	972	887	957
Strontium	mg/kg	0.05	0.29	0.23	0.29
Tellurium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Thallium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Tin	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Uranium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Vanadium	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Zinc	mg/kg	0.05	26.2	34.7	27.2

Report ID: 376560-IAS
Report Date: 09-Dec-20
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CERTIFICATE OF ANALYSIS

for
Stantec Consulting Ltd
845 Prospect Street
Fredericton, NB E3B 2T7

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921 College Hill Rd
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Canada E3B 6Z9
Tel: 506.452.1212
Fax: 506.452.0594
www.rpc.ca

Attention: Jenny Reid
Project #: 121619250.200.950.1401
Location: Nova Scotia

Analysis of Samples

RPC Sample ID:			376560-14	376560-15	376560-16
Client Sample ID:			NE-WHSC-45-OV	NE-WHSC-44-OV	NE-WHSC-13-OV
Date Sampled:			4-Oct-20	4-Oct-20	2-Oct-20
Analytes	**Units**	**RL**			
Aluminum	mg/kg	0.05	0.94	0.77	2.01
Antimony	mg/kg	0.005	< 0.005	< 0.005	0.009
Arsenic	mg/kg	0.05	0.08	0.06	0.08
Barium	mg/kg	0.05	< 0.05	< 0.05	0.99
Beryllium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Bismuth	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Boron	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Cadmium	mg/kg	0.0005	0.0035	0.0093	0.0161
Calcium	mg/kg	2	353	340	35000
Chromium	mg/kg	0.05	< 0.05	< 0.05	0.15
Cobalt	mg/kg	0.005	0.027	0.031	0.026
Copper	mg/kg	0.05	1.89	2.14	0.52
Iron	mg/kg	1	27	33	18
Lead	mg/kg	0.005	0.009	0.015	0.097
Lithium	mg/kg	0.005	< 0.005	< 0.005	0.018
Magnesium	mg/kg	0.5	353.	301.	642.
Manganese	mg/kg	0.05	5.63	4.81	33.3
Mercury	mg/kg	0.01	0.03	0.05	0.46
Molybdenum	mg/kg	0.005	0.040	0.039	0.009
Nickel	mg/kg	0.05	< 0.05	< 0.05	0.12
Potassium	mg/kg	2	2360	2380	2890
Rubidium	mg/kg	0.005	1.73	2.57	5.61
Selenium	mg/kg	0.05	1.24	0.83	0.59
Silver	mg/kg	0.005	0.027	0.014	< 0.005
Sodium	mg/kg	2	1070	878	1420
Strontium	mg/kg	0.05	0.17	0.18	27.6
Tellurium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Thallium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Tin	mg/kg	0.005	< 0.005	< 0.005	0.006
Uranium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Vanadium	mg/kg	0.05	< 0.05	< 0.05	0.06
Zinc	mg/kg	0.05	24.4	22.9	29.9

Report ID: 376560-IAS
Report Date: 09-Dec-20
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CERTIFICATE OF ANALYSIS

for
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Tel: 506.452.1212
Fax: 506.452.0594
www.rpc.ca

Attention: Jenny Reid
Project #: 121619250.200.950.1401
Location: Nova Scotia

Analysis of Samples

RPC Sample ID:			376560-17	376560-18	376560-19
Client Sample ID:			EX-YLPR-26-CAR	EX-YLPR-27-CAR	EX-YLPR-29-CAR
Date Sampled:			5-Oct-20	5-Oct-20	6-Oct-20
Analytes	**Units**	**RL**			
Aluminum	mg/kg	0.05	1.66	8.91	1.31
Antimony	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Arsenic	mg/kg	0.05	0.07	0.09	0.11
Barium	mg/kg	0.05	0.64	1.27	0.81
Beryllium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Bismuth	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Boron	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Cadmium	mg/kg	0.0005	0.0231	0.0117	0.0225
Calcium	mg/kg	2	22200	39300	23400
Chromium	mg/kg	0.05	0.15	< 0.05	< 0.05
Cobalt	mg/kg	0.005	0.034	0.009	0.044
Copper	mg/kg	0.05	0.70	0.72	0.59
Iron	mg/kg	1	31	22	21
Lead	mg/kg	0.005	0.065	0.065	0.067
Lithium	mg/kg	0.005	0.012	0.017	0.013
Magnesium	mg/kg	0.5	439.	680.	448.
Manganese	mg/kg	0.05	22.4	20.5	31.6
Mercury	mg/kg	0.01	0.47	0.25	0.40
Molybdenum	mg/kg	0.005	0.009	0.011	0.014
Nickel	mg/kg	0.05	1.83	0.12	0.07
Potassium	mg/kg	2	2870	2950	3100
Rubidium	mg/kg	0.005	5.51	5.54	5.18
Selenium	mg/kg	0.05	0.65	0.68	0.60
Silver	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Sodium	mg/kg	2	1330	1430	1140
Strontium	mg/kg	0.05	17.2	21.9	23.3
Tellurium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Thallium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Tin	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Uranium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Vanadium	mg/kg	0.05	< 0.05	0.13	0.05
Zinc	mg/kg	0.05	27.8	36.6	25.1

Report ID: 376560-IAS
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CERTIFICATE OF ANALYSIS

for
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Tel: 506.452.1212
Fax: 506.452.0594
www.rpc.ca

Attention: Jenny Reid
Project #: 121619250.200.950.1401
Location: Nova Scotia

Analysis of Samples

RPC Sample ID:			376560-20	376560-21	376560-22
Client Sample ID:			EX-YLPR-30-CAR	EX-YLPR-28-CAR	EX-YLPR-26-MUS
Date Sampled:			6-Oct-20	6-Oct-20	5-Oct-20
Analytes	**Units**	**RL**			
Aluminum	mg/kg	0.05	1.62	1.81	0.09
Antimony	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Arsenic	mg/kg	0.05	0.10	0.10	0.06
Barium	mg/kg	0.05	1.05	0.78	< 0.05
Beryllium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Bismuth	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Boron	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Cadmium	mg/kg	0.0005	0.0223	0.0181	0.0009
Calcium	mg/kg	2	25900	29000	197
Chromium	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Cobalt	mg/kg	0.005	0.075	0.029	0.006
Copper	mg/kg	0.05	0.85	0.54	0.34
Iron	mg/kg	1	28	24	3
Lead	mg/kg	0.005	0.096	0.095	< 0.005
Lithium	mg/kg	0.005	0.015	0.015	< 0.005
Magnesium	mg/kg	0.5	489.	522.	242.
Manganese	mg/kg	0.05	24.4	18.5	0.18
Mercury	mg/kg	0.01	0.43	0.41	0.90
Molybdenum	mg/kg	0.005	0.009	0.009	< 0.005
Nickel	mg/kg	0.05	0.10	0.07	< 0.05
Potassium	mg/kg	2	2880	3000	3990
Rubidium	mg/kg	0.005	4.65	4.87	7.08
Selenium	mg/kg	0.05	0.62	0.61	0.51
Silver	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Sodium	mg/kg	2	1670	1300	406
Strontium	mg/kg	0.05	25.2	29.9	0.12
Tellurium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Thallium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Tin	mg/kg	0.005	0.014	< 0.005	< 0.005
Uranium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Vanadium	mg/kg	0.05	0.08	0.09	< 0.05
Zinc	mg/kg	0.05	32.0	27.1	3.66

Report ID: 376560-IAS
Report Date: 09-Dec-20
Date Received: 23-Nov-20

CERTIFICATE OF ANALYSIS

for
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Fredericton, NB E3B 2T7

rpc
921 College Hill Rd
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Canada E3B 6Z9
Tel: 506.452.1212
Fax: 506.452.0594
www.rpc.ca

Attention: Jenny Reid
Project #: 121619250.200.950.1401
Location: Nova Scotia

Analysis of Samples

RPC Sample ID:			376560-23	376560-24	376560-25
Client Sample ID:			EX-YLPR-27-MUS	EX-YLPR-29-MUS	EX-YLPR-30-MUS
Date Sampled:			5-Oct-20	6-Oct-20	6-Oct-20
Analytes	**Units**	**RL**			
Aluminum	mg/kg	0.05	0.12	0.22	0.29
Antimony	mg/kg	0.005	0.008	< 0.005	< 0.005
Arsenic	mg/kg	0.05	0.06	< 0.05	< 0.05
Barium	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Beryllium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Bismuth	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Boron	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Cadmium	mg/kg	0.0005	0.0009	0.0020	0.0021
Calcium	mg/kg	2	459	483	731
Chromium	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Cobalt	mg/kg	0.005	0.005	0.014	0.016
Copper	mg/kg	0.05	1.18	0.56	1.15
Iron	mg/kg	1	4	4	4
Lead	mg/kg	0.005	0.039	0.025	0.020
Lithium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Magnesium	mg/kg	0.5	298.	274.	258.
Manganese	mg/kg	0.05	0.36	0.70	0.68
Mercury	mg/kg	0.01	0.58	0.91	0.97
Molybdenum	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Nickel	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Potassium	mg/kg	2	4370	4310	4180
Rubidium	mg/kg	0.005	7.61	7.49	6.35
Selenium	mg/kg	0.05	0.62	0.55	0.50
Silver	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Sodium	mg/kg	2	546	546	622
Strontium	mg/kg	0.05	0.26	0.37	0.48
Tellurium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Thallium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Tin	mg/kg	0.005	0.009	0.007	0.011
Uranium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Vanadium	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Zinc	mg/kg	0.05	5.10	4.48	4.72

Report ID: 376560-IAS
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CERTIFICATE OF ANALYSIS

for
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Tel: 506.452.1212
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www.rpc.ca

Attention: Jenny Reid
Project #: 121619250.200.950.1401
Location: Nova Scotia

Analysis of Samples

RPC Sample ID:			376560-26	376560-27	376560-28
Client Sample ID:			EX-YLPR-28-MUS	LL-YLPR-13-CAR	LL-YLPR-32-CAR
Date Sampled:			6-Oct-20	30-Sep-20	1-Oct-20
Analytes	**Units**	**RL**			
Aluminum	mg/kg	0.05	0.19	13.8	3.59
Antimony	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Arsenic	mg/kg	0.05	0.06	0.07	< 0.05
Barium	mg/kg	0.05	< 0.05	3.43	3.64
Beryllium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Bismuth	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Boron	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Cadmium	mg/kg	0.0005	0.0011	0.0939	0.0351
Calcium	mg/kg	2	501	30300	27000
Chromium	mg/kg	0.05	< 0.05	0.10	< 0.05
Cobalt	mg/kg	0.005	0.009	0.039	0.037
Copper	mg/kg	0.05	0.38	2.25	0.79
Iron	mg/kg	1	3	50	29
Lead	mg/kg	0.005	0.007	0.201	0.104
Lithium	mg/kg	0.005	< 0.005	0.052	0.041
Magnesium	mg/kg	0.5	256.	552.	514.
Manganese	mg/kg	0.05	0.36	117.	107.
Mercury	mg/kg	0.01	0.88	0.13	0.26
Molybdenum	mg/kg	0.005	< 0.005	0.016	0.010
Nickel	mg/kg	0.05	< 0.05	0.09	0.08
Potassium	mg/kg	2	4290	2730	2650
Rubidium	mg/kg	0.005	6.83	5.65	5.09
Selenium	mg/kg	0.05	0.56	0.77	0.64
Silver	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Sodium	mg/kg	2	569	1160	1020
Strontium	mg/kg	0.05	0.41	40.2	39.0
Tellurium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Thallium	mg/kg	0.005	< 0.005	0.007	< 0.005
Tin	mg/kg	0.005	< 0.005	0.048	< 0.005
Uranium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Vanadium	mg/kg	0.05	< 0.05	0.09	0.10
Zinc	mg/kg	0.05	4.42	36.0	26.3

Report ID: 376560-IAS
Report Date: 09-Dec-20
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CERTIFICATE OF ANALYSIS

for
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Tel: 506.452.1212
Fax: 506.452.0594
www.rpc.ca

Attention: Jenny Reid
Project #: 121619250.200.950.1401
Location: Nova Scotia

Analysis of Samples

RPC Sample ID:			376560-29	376560-30	376560-31
Client Sample ID:			LL-YLPR-33-CAR	LL-YLPR-34-CAR	LL-YLPR-35-CAR
Date Sampled:			1-Oct-20	1-Oct-20	1-Oct-20
Analytes	**Units**	**RL**			
Aluminum	mg/kg	0.05	3.61	10.1	2.22
Antimony	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Arsenic	mg/kg	0.05	0.05	< 0.05	0.08
Barium	mg/kg	0.05	3.44	4.99	2.48
Beryllium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Bismuth	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Boron	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Cadmium	mg/kg	0.0005	0.0328	0.0557	0.0397
Calcium	mg/kg	2	28300	35600	33300
Chromium	mg/kg	0.05	0.08	< 0.05	< 0.05
Cobalt	mg/kg	0.005	0.019	0.042	0.029
Copper	mg/kg	0.05	0.54	1.12	0.46
Iron	mg/kg	1	28	34	24
Lead	mg/kg	0.005	0.066	0.101	0.131
Lithium	mg/kg	0.005	0.039	0.055	0.048
Magnesium	mg/kg	0.5	517.	604.	595.
Manganese	mg/kg	0.05	115.	205.	125.
Mercury	mg/kg	0.01	0.15	0.18	0.20
Molybdenum	mg/kg	0.005	0.026	0.013	0.009
Nickel	mg/kg	0.05	0.06	0.10	0.12
Potassium	mg/kg	2	2710	2900	2740
Rubidium	mg/kg	0.005	8.05	6.54	7.21
Selenium	mg/kg	0.05	0.70	0.59	0.79
Silver	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Sodium	mg/kg	2	1050	1170	1150
Strontium	mg/kg	0.05	38.6	46.1	41.0
Tellurium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Thallium	mg/kg	0.005	0.006	0.007	0.006
Tin	mg/kg	0.005	< 0.005	0.010	< 0.005
Uranium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Vanadium	mg/kg	0.05	0.06	0.07	0.08
Zinc	mg/kg	0.05	27.8	30.7	25.0

Report ID: 376560-IAS
Report Date: 09-Dec-20
Date Received: 23-Nov-20

CERTIFICATE OF ANALYSIS

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Tel: 506.452.1212
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www.rpc.ca

Attention: Jenny Reid
Project #: 121619250.200.950.1401
Location: Nova Scotia

Analysis of Samples

RPC Sample ID:			376560-32	376560-33	376560-34
Client Sample ID:			LL-YLPR-13-MUS	LL-YLPR-32-MUS	LL-YLPR-33-MUS
Date Sampled:			30-Sep-20	1-Oct-20	1-Oct-20
Analytes	**Units**	**RL**			
Aluminum	mg/kg	0.05	0.30	0.23	0.22
Antimony	mg/kg	0.005	0.009	< 0.005	< 0.005
Arsenic	mg/kg	0.05	0.09	0.06	< 0.05
Barium	mg/kg	0.05	0.36	0.24	0.19
Beryllium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Bismuth	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Boron	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Cadmium	mg/kg	0.0005	0.0061	0.0025	0.0020
Calcium	mg/kg	2	3730	1790	1780
Chromium	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Cobalt	mg/kg	0.005	0.012	0.011	0.007
Copper	mg/kg	0.05	2.12	1.05	0.38
Iron	mg/kg	1	12	9	2
Lead	mg/kg	0.005	0.099	0.023	0.007
Lithium	mg/kg	0.005	0.008	0.006	0.006
Magnesium	mg/kg	0.5	333.	278.	271.
Manganese	mg/kg	0.05	11.1	6.05	6.93
Mercury	mg/kg	0.01	0.32	0.47	0.28
Molybdenum	mg/kg	0.005	0.005	< 0.005	< 0.005
Nickel	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Potassium	mg/kg	2	4000	3650	3530
Rubidium	mg/kg	0.005	7.71	6.63	10.1
Selenium	mg/kg	0.05	0.81	0.69	0.58
Silver	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Sodium	mg/kg	2	656	573	611
Strontium	mg/kg	0.05	4.29	2.34	2.18
Tellurium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Thallium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Tin	mg/kg	0.005	0.065	0.025	< 0.005
Uranium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Vanadium	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Zinc	mg/kg	0.05	6.89	5.18	4.68

Report ID: 376560-IAS
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CERTIFICATE OF ANALYSIS

for
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Tel: 506.452.1212
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www.rpc.ca

Attention: Jenny Reid
Project #: 121619250.200.950.1401
Location: Nova Scotia

Analysis of Samples

RPC Sample ID:			376560-35	376560-36	376560-37
Client Sample ID:			LL-YLPR-34-MUS	LL-YLPR-35-MUS	NE-YLPR-02-CAR
Date Sampled:			1-Oct-20	1-Oct-20	2-Oct-20
Analytes	**Units**	**RL**			
Aluminum	mg/kg	0.05	0.28	0.24	4.00
Antimony	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Arsenic	mg/kg	0.05	0.10	0.06	0.05
Barium	mg/kg	0.05	0.16	0.29	1.18
Beryllium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Bismuth	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Boron	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Cadmium	mg/kg	0.0005	0.0049	0.0030	0.0164
Calcium	mg/kg	2	2280	1910	32200
Chromium	mg/kg	0.05	< 0.05	< 0.05	0.13
Cobalt	mg/kg	0.005	0.011	0.011	0.006
Copper	mg/kg	0.05	0.51	0.87	0.60
Iron	mg/kg	1	4	3	23
Lead	mg/kg	0.005	0.022	0.009	0.153
Lithium	mg/kg	0.005	0.006	0.005	0.022
Magnesium	mg/kg	0.5	278.	288.	602.
Manganese	mg/kg	0.05	7.49	11.1	14.7
Mercury	mg/kg	0.01	0.49	0.39	0.20
Molybdenum	mg/kg	0.005	< 0.005	< 0.005	0.008
Nickel	mg/kg	0.05	< 0.05	< 0.05	0.10
Potassium	mg/kg	2	3580	3900	2840
Rubidium	mg/kg	0.005	9.19	8.14	5.53
Selenium	mg/kg	0.05	0.76	0.64	0.72
Silver	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Sodium	mg/kg	2	662	602	1210
Strontium	mg/kg	0.05	2.62	2.23	33.9
Tellurium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Thallium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Tin	mg/kg	0.005	0.008	0.010	< 0.005
Uranium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Vanadium	mg/kg	0.05	< 0.05	< 0.05	0.34
Zinc	mg/kg	0.05	4.96	4.59	26.5

Report ID: 376560-IAS
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CERTIFICATE OF ANALYSIS

for
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Tel: 506.452.1212
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www.rpc.ca

Attention: Jenny Reid
Project #: 121619250.200.950.1401
Location: Nova Scotia

Analysis of Samples

RPC Sample ID:			376560-38	376560-39	376560-40
Client Sample ID:			NE-YLPR-03-CAR	NE-YLPR-09-CAR	NE-YLPR-14-CAR
Date Sampled:			2-Oct-20	2-Oct-20	2-Oct-20
Analytes	**Units**	**RL**			
Aluminum	mg/kg	0.05	2.60	2.68	1.57
Antimony	mg/kg	0.005	< 0.005	0.005	< 0.005
Arsenic	mg/kg	0.05	< 0.05	0.05	< 0.05
Barium	mg/kg	0.05	1.71	1.61	1.31
Beryllium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Bismuth	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Boron	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Cadmium	mg/kg	0.0005	0.0363	0.0204	0.0118
Calcium	mg/kg	2	30600	34100	22200
Chromium	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Cobalt	mg/kg	0.005	0.015	< 0.005	< 0.005
Copper	mg/kg	0.05	1.92	0.51	0.49
Iron	mg/kg	1	32	20	18
Lead	mg/kg	0.005	0.330	0.182	0.117
Lithium	mg/kg	0.005	0.023	0.028	0.016
Magnesium	mg/kg	0.5	536.	620.	428.
Manganese	mg/kg	0.05	20.5	17.8	9.04
Mercury	mg/kg	0.01	0.25	0.36	0.28
Molybdenum	mg/kg	0.005	0.007	0.031	0.023
Nickel	mg/kg	0.05	0.06	< 0.05	0.07
Potassium	mg/kg	2	2860	3070	2660
Rubidium	mg/kg	0.005	3.91	6.21	4.87
Selenium	mg/kg	0.05	0.97	0.67	0.65
Silver	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Sodium	mg/kg	2	1300	1290	939
Strontium	mg/kg	0.05	53.1	49.9	32.8
Tellurium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Thallium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Tin	mg/kg	0.005	0.036	< 0.005	< 0.005
Uranium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Vanadium	mg/kg	0.05	0.22	0.10	0.10
Zinc	mg/kg	0.05	28.8	27.3	19.6

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Attention: Jenny Reid
Project #: 121619250.200.950.1401
Location: Nova Scotia

Analysis of Samples

RPC Sample ID:			376560-41	376560-42	376560-43
Client Sample ID:			NE-YLPR-17-CAR	NE-YLPR-02-MUS	NE-YLPR-03-MUS
Date Sampled:			2-Oct-20	2-Oct-20	2-Oct-20
Analytes	**Units**	**RL**			
Aluminum	mg/kg	0.05	1.54	0.24	0.62
Antimony	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Arsenic	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Barium	mg/kg	0.05	0.98	< 0.05	< 0.05
Beryllium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Bismuth	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Boron	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Cadmium	mg/kg	0.0005	0.0178	0.0009	0.0019
Calcium	mg/kg	2	27800	277	625
Chromium	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Cobalt	mg/kg	0.005	0.008	< 0.005	< 0.005
Copper	mg/kg	0.05	0.48	0.48	0.46
Iron	mg/kg	1	21	3	3
Lead	mg/kg	0.005	0.138	0.010	0.012
Lithium	mg/kg	0.005	0.019	< 0.005	< 0.005
Magnesium	mg/kg	0.5	553.	266.	290.
Manganese	mg/kg	0.05	19.1	0.20	0.56
Mercury	mg/kg	0.01	0.30	0.43	0.48
Molybdenum	mg/kg	0.005	0.007	< 0.005	< 0.005
Nickel	mg/kg	0.05	0.06	< 0.05	< 0.05
Potassium	mg/kg	2	3090	3810	3790
Rubidium	mg/kg	0.005	6.31	7.03	4.95
Selenium	mg/kg	0.05	0.83	0.75	0.94
Silver	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Sodium	mg/kg	2	1270	433	542
Strontium	mg/kg	0.05	38.9	0.25	0.96
Tellurium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Thallium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Tin	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Uranium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Vanadium	mg/kg	0.05	0.20	< 0.05	< 0.05
Zinc	mg/kg	0.05	27.1	4.56	4.92

Report ID: 376560-IAS
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CERTIFICATE OF ANALYSIS

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Attention: Jenny Reid
Project #: 121619250.200.950.1401
Location: Nova Scotia

Analysis of Samples

RPC Sample ID:			376560-44	376560-45	376560-46
Client Sample ID:			NE-YLPR-09-MUS	NE-YLPR-14-MUS	NE-YLPR-17-MUS
Date Sampled:			2-Oct-20	2-Oct-20	2-Oct-20
Analytes	**Units**	**RL**			
Aluminum	mg/kg	0.05	0.15	0.08	0.24
Antimony	mg/kg	0.005	< 0.005	< 0.005	0.032
Arsenic	mg/kg	0.05	0.06	< 0.05	< 0.05
Barium	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Beryllium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Bismuth	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Boron	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Cadmium	mg/kg	0.0005	0.0009	0.0006	0.0014
Calcium	mg/kg	2	306	229	512
Chromium	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Cobalt	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Copper	mg/kg	0.05	0.67	0.60	0.78
Iron	mg/kg	1	2	3	4
Lead	mg/kg	0.005	0.007	0.037	0.011
Lithium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Magnesium	mg/kg	0.5	268.	263.	295.
Manganese	mg/kg	0.05	0.28	0.15	0.53
Mercury	mg/kg	0.01	0.79	0.52	0.60
Molybdenum	mg/kg	0.005	< 0.005	< 0.005	0.005
Nickel	mg/kg	0.05	0.36	< 0.05	< 0.05
Potassium	mg/kg	2	3870	3550	4840
Rubidium	mg/kg	0.005	7.77	6.46	8.32
Selenium	mg/kg	0.05	0.69	0.59	0.87
Silver	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Sodium	mg/kg	2	474	282	491
Strontium	mg/kg	0.05	0.43	0.27	0.63
Tellurium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Thallium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Tin	mg/kg	0.005	< 0.005	0.015	0.010
Uranium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Vanadium	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Zinc	mg/kg	0.05	4.32	3.52	4.63

Report ID: 376560-IAS
Report Date: 09-Dec-20
Date Received: 23-Nov-20

CERTIFICATE OF ANALYSIS

for
Stantec Consulting Ltd
845 Prospect Street
Fredericton, NB E3B 2T7

rpc
921 College Hill Rd
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Canada E3B 6Z9
Tel: 506.452.1212
Fax: 506.452.0594
www.rpc.ca

Attention: Jenny Reid
Project #: 121619250.200.950.1401
Location: Nova Scotia

Analysis of Samples

RPC Sample ID:			376560-47	376560-47 Dup	376560-48
Client Sample ID:			LL-WHSC-31	Lab Duplicate	LL-WHSC-18
Date Sampled:			30-Sep-20	30-Sep-20	30-Sep-20
Analytes	**Units**	**RL**			
Aluminum	mg/kg	0.05	9.66	7.36	11.0
Antimony	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Arsenic	mg/kg	0.05	0.07	0.07	0.08
Barium	mg/kg	0.05	3.33	3.18	4.80
Beryllium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Bismuth	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Boron	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Cadmium	mg/kg	0.0005	0.0299	0.0301	0.0356
Calcium	mg/kg	2	12800	13700	17700
Chromium	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Cobalt	mg/kg	0.005	0.035	0.034	0.044
Copper	mg/kg	0.05	0.49	0.48	0.52
Iron	mg/kg	1	26	25	37
Lead	mg/kg	0.005	0.104	0.096	0.118
Lithium	mg/kg	0.005	0.012	0.011	0.014
Magnesium	mg/kg	0.5	352.	346.	399.
Manganese	mg/kg	0.05	51.4	48.0	65.7
Mercury	mg/kg	0.01	0.10	0.11	0.22
Molybdenum	mg/kg	0.005	0.017	0.018	0.019
Nickel	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Potassium	mg/kg	2	3750	3680	3700
Rubidium	mg/kg	0.005	5.01	5.04	6.37
Selenium	mg/kg	0.05	0.65	0.65	1.02
Silver	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Sodium	mg/kg	2	725	717	1020
Strontium	mg/kg	0.05	18.8	22.2	22.5
Tellurium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Thallium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Tin	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Uranium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Vanadium	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Zinc	mg/kg	0.05	14.6	14.2	18.3

Report ID: 376560-IAS
Report Date: 09-Dec-20
Date Received: 23-Nov-20

CERTIFICATE OF ANALYSIS

for
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rpc
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Tel: 506.452.1212
Fax: 506.452.0594
www.rpc.ca

Attention: Jenny Reid
Project #: 121619250.200.950.1401
Location: Nova Scotia

Analysis of Samples

RPC Sample ID:			376560-49	376560-50	376560-51
Client Sample ID:			LL-WHSC-19	LL-WHSC-30	LL-WHSC-25
Date Sampled:			30-Sep-20	30-Sep-20	30-Sep-20
Analytes	**Units**	**RL**			
Aluminum	mg/kg	0.05	20.6	17.8	8.35
Antimony	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Arsenic	mg/kg	0.05	0.10	0.08	0.06
Barium	mg/kg	0.05	2.93	3.56	4.64
Beryllium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Bismuth	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Boron	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Cadmium	mg/kg	0.0005	0.0480	0.0566	0.0272
Calcium	mg/kg	2	10900	15200	13100
Chromium	mg/kg	0.05	0.09	< 0.05	< 0.05
Cobalt	mg/kg	0.005	0.060	0.051	0.031
Copper	mg/kg	0.05	0.51	0.60	0.51
Iron	mg/kg	1	49	41	30
Lead	mg/kg	0.005	0.084	0.090	0.054
Lithium	mg/kg	0.005	0.027	0.017	0.012
Magnesium	mg/kg	0.5	338.	353.	358.
Manganese	mg/kg	0.05	47.0	70.8	46.8
Mercury	mg/kg	0.01	0.09	0.17	0.18
Molybdenum	mg/kg	0.005	0.024	0.021	0.024
Nickel	mg/kg	0.05	0.07	< 0.05	< 0.05
Potassium	mg/kg	2	3840	3400	3670
Rubidium	mg/kg	0.005	5.83	5.74	7.53
Selenium	mg/kg	0.05	0.72	0.57	0.75
Silver	mg/kg	0.005	0.006	< 0.005	< 0.005
Sodium	mg/kg	2	915	813	1030
Strontium	mg/kg	0.05	16.7	19.3	21.5
Tellurium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Thallium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Tin	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Uranium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Vanadium	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Zinc	mg/kg	0.05	15.8	14.2	14.5

Report ID: 376560-IAS
Report Date: 09-Dec-20
Date Received: 23-Nov-20

CERTIFICATE OF ANALYSIS

for
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Tel: 506.452.1212
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www.rpc.ca

Attention: Jenny Reid
Project #: 121619250.200.950.1401
Location: Nova Scotia

Analysis of Samples

RPC Sample ID:			376560-51 Dup	376560-52	376560-53
Client Sample ID:			Lab Duplicate	NE-WHSC-39	NE-WHSC-14
Date Sampled:			30-Sep-20	2-Oct-20	2-Oct-20
Analytes	**Units**	**RL**			
Aluminum	mg/kg	0.05	7.63	12.6	5.49
Antimony	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Arsenic	mg/kg	0.05	0.06	0.08	0.06
Barium	mg/kg	0.05	5.95	2.11	2.90
Beryllium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Bismuth	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Boron	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Cadmium	mg/kg	0.0005	0.0291	0.0230	0.0176
Calcium	mg/kg	2	18700	8810	12600
Chromium	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Cobalt	mg/kg	0.005	0.030	0.022	0.014
Copper	mg/kg	0.05	0.52	0.59	0.46
Iron	mg/kg	1	32	45	24
Lead	mg/kg	0.005	0.068	0.262	0.234
Lithium	mg/kg	0.005	0.013	0.010	0.006
Magnesium	mg/kg	0.5	418.	309.	373.
Manganese	mg/kg	0.05	61.8	20.2	29.8
Mercury	mg/kg	0.01	0.19	0.21	0.14
Molybdenum	mg/kg	0.005	0.027	0.020	0.020
Nickel	mg/kg	0.05	< 0.05	< 0.05	0.06
Potassium	mg/kg	2	3840	2790	2790
Rubidium	mg/kg	0.005	7.83	4.43	3.29
Selenium	mg/kg	0.05	0.75	0.65	0.77
Silver	mg/kg	0.005	< 0.005	< 0.005	0.006
Sodium	mg/kg	2	1090	936	958
Strontium	mg/kg	0.05	29.6	18.1	27.6
Tellurium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Thallium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Tin	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Uranium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Vanadium	mg/kg	0.05	< 0.05	0.05	0.08
Zinc	mg/kg	0.05	15.9	16.3	14.9

Report ID: 376560-IAS
Report Date: 09-Dec-20
Date Received: 23-Nov-20

CERTIFICATE OF ANALYSIS

for
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Fax: 506.452.0594
www.rpc.ca

Attention: Jenny Reid
Project #: 121619250.200.950.1401
Location: Nova Scotia

Analysis of Samples

RPC Sample ID:			376560-54	376560-55	376560-55 Dup
Client Sample ID:			NE-WHSC-45	NE-WHSC-44	Lab Duplicate
Date Sampled:			4-Oct-20	4-Oct-20	4-Oct-20
Analytes	**Units**	**RL**			
Aluminum	mg/kg	0.05	11.5	20.3	20.6
Antimony	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Arsenic	mg/kg	0.05	0.05	< 0.05	0.06
Barium	mg/kg	0.05	3.00	3.35	3.00
Beryllium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Bismuth	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Boron	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Cadmium	mg/kg	0.0005	0.0216	0.0236	0.0245
Calcium	mg/kg	2	8670	10800	10200
Chromium	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Cobalt	mg/kg	0.005	0.021	0.024	0.021
Copper	mg/kg	0.05	0.56	0.49	0.48
Iron	mg/kg	1	47	51	48
Lead	mg/kg	0.005	0.277	0.511	0.497
Lithium	mg/kg	0.005	0.012	0.018	0.019
Magnesium	mg/kg	0.5	304.	340.	334.
Manganese	mg/kg	0.05	25.8	28.8	25.9
Mercury	mg/kg	0.01	0.15	0.26	0.25
Molybdenum	mg/kg	0.005	0.015	0.016	0.017
Nickel	mg/kg	0.05	< 0.05	0.06	0.05
Potassium	mg/kg	2	2650	2480	2500
Rubidium	mg/kg	0.005	2.44	3.21	3.13
Selenium	mg/kg	0.05	0.79	0.50	0.51
Silver	mg/kg	0.005	0.007	< 0.005	< 0.005
Sodium	mg/kg	2	1020	865	865
Strontium	mg/kg	0.05	19.5	25.4	22.7
Tellurium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Thallium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Tin	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Uranium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Vanadium	mg/kg	0.05	0.06	0.09	0.08
Zinc	mg/kg	0.05	15.8	16.6	16.3

Report ID: 376560-IAS
Report Date: 09-Dec-20
Date Received: 23-Nov-20

CERTIFICATE OF ANALYSIS

for
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Tel: 506.452.1212
Fax: 506.452.0594
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Attention: Jenny Reid
Project #: 121619250.200.950.1401
Location: Nova Scotia

Analysis of Samples

RPC Sample ID:			376560-56
Client Sample ID:			NE-WHSC-13
Date Sampled:			2-Oct-20
Analytes	**Units**	**RL**	
Aluminum	mg/kg	0.05	7.60
Antimony	mg/kg	0.005	< 0.005
Arsenic	mg/kg	0.05	0.06
Barium	mg/kg	0.05	3.73
Beryllium	mg/kg	0.005	< 0.005
Bismuth	mg/kg	0.05	< 0.05
Boron	mg/kg	0.05	< 0.05
Cadmium	mg/kg	0.0005	0.0333
Calcium	mg/kg	2	10300
Chromium	mg/kg	0.05	< 0.05
Cobalt	mg/kg	0.005	0.014
Copper	mg/kg	0.05	0.44
Iron	mg/kg	1	46
Lead	mg/kg	0.005	0.622
Lithium	mg/kg	0.005	0.009
Magnesium	mg/kg	0.5	328.
Manganese	mg/kg	0.05	18.1
Mercury	mg/kg	0.01	0.26
Molybdenum	mg/kg	0.005	0.012
Nickel	mg/kg	0.05	< 0.05
Potassium	mg/kg	2	2780
Rubidium	mg/kg	0.005	1.75
Selenium	mg/kg	0.05	0.49
Silver	mg/kg	0.005	0.008
Sodium	mg/kg	2	1150
Strontium	mg/kg	0.05	23.2
Tellurium	mg/kg	0.005	< 0.005
Thallium	mg/kg	0.005	< 0.005
Tin	mg/kg	0.005	< 0.005
Uranium	mg/kg	0.005	< 0.005
Vanadium	mg/kg	0.05	< 0.05
Zinc	mg/kg	0.05	14.4

CERTIFICATE OF ANALYSIS
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General Report Comments

Whole body homogenates were prepared for each sample.
Portions of the homogenates were prepared by Microwave Assisted Digestion in nitric acid (SOP 4.M26).
The resulting solutions were analyzed for trace elements by ICP-MS (SOP 4.M01).
Mercury was analyzed by Cold Vapour AAS (SOP 4.M52 & SOP 4.M53).
Results are reported on an "as received" (wet weight) basis.

Report ID: 376560-IAS
Report Date: 09-Dec-20
Date Received: 23-Nov-20

CERTIFICATE OF ANALYSIS

for
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www.rpc.ca

Project #: 121619250.200.950.1401
Location: Nova Scotia
QA/QC Report

RPC Sample ID:			CRM128418	CRM128419	CRM128515
Type:			CRM DORM-4	CRM DOLT-5	CRM DORM-4
Analytes	**Units**	**RL**			
Aluminum	mg/kg	0.05	1540	14.8	1650
Antimony	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Arsenic	mg/kg	0.05	6.27	29.0	6.45
Barium	mg/kg	0.05	5.86	0.11	6.05
Beryllium	mg/kg	0.005	0.014	< 0.005	0.014
Bismuth	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Boron	mg/kg	0.05	8.67	0.99	8.63
Cadmium	mg/kg	0.0005	0.310	13.6	0.307
Calcium	mg/kg	2	2810	581	2800
Chromium	mg/kg	0.05	1.92	2.35	1.77
Cobalt	mg/kg	0.005	0.277	0.269	0.279
Copper	mg/kg	0.05	16.8	36.2	16.4
Iron	mg/kg	1	393	1100	366
Lead	mg/kg	0.005	0.387	0.178	0.430
Lithium	mg/kg	0.005	1.35	0.095	1.30
Magnesium	mg/kg	0.5	1000	956.	938.
Manganese	mg/kg	0.05	3.40	9.03	3.17
Mercury	mg/kg	0.01	0.37	0.37	0.36
Molybdenum	mg/kg	0.005	0.317	1.52	0.323
Nickel	mg/kg	0.05	1.43	1.81	1.35
Potassium	mg/kg	2	14900	15800	15200
Rubidium	mg/kg	0.005	6.75	5.51	6.75
Selenium	mg/kg	0.05	3.64	7.03	3.69
Silver	mg/kg	0.005	0.013	1.72	0.014
Sodium	mg/kg	2	16300	11200	15700
Strontium	mg/kg	0.05	11.0	4.11	11.1
Tellurium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Thallium	mg/kg	0.005	0.010	0.012	0.010
Tin	mg/kg	0.005	0.088	0.079	0.076
Uranium	mg/kg	0.005	0.061	0.088	0.062
Vanadium	mg/kg	0.05	1.75	0.53	1.81
Zinc	mg/kg	0.05	49.8	99.1	49.0

Report ID: 376560-IAS
Report Date: 09-Dec-20
Date Received: 23-Nov-20

CERTIFICATE OF ANALYSIS

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Project #: 121619250.200.950.1401
Location: Nova Scotia
QA/QC Report

RPC Sample ID:			CRM128516	RB073614	RB073615
Type:			CRM DOLT-5	Blank	Blank
Analytes	**Units**	**RL**			
Aluminum	mg/kg	0.05	15.8	0.06	0.06
Antimony	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Arsenic	mg/kg	0.05	32.1	< 0.05	< 0.05
Barium	mg/kg	0.05	0.11	< 0.05	< 0.05
Beryllium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Bismuth	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Boron	mg/kg	0.05	1.08	< 0.05	< 0.05
Cadmium	mg/kg	0.0005	14.2	< 0.0005	< 0.0005
Calcium	mg/kg	2	577	< 2	< 2
Chromium	mg/kg	0.05	2.04	< 0.05	< 0.05
Cobalt	mg/kg	0.005	0.262	< 0.005	< 0.005
Copper	mg/kg	0.05	37.3	< 0.05	< 0.05
Iron	mg/kg	1	1160	< 1	< 1
Lead	mg/kg	0.005	0.159	< 0.005	< 0.005
Lithium	mg/kg	0.005	0.091	< 0.005	< 0.005
Magnesium	mg/kg	0.5	984.	< 0.5	< 0.5
Manganese	mg/kg	0.05	9.30	< 0.05	< 0.05
Mercury	mg/kg	0.01	0.28	< 0.01	< 0.01
Molybdenum	mg/kg	0.005	1.59	< 0.005	< 0.005
Nickel	mg/kg	0.05	1.78	< 0.05	< 0.05
Potassium	mg/kg	2	16800	< 2	< 2
Rubidium	mg/kg	0.005	5.64	< 0.005	< 0.005
Selenium	mg/kg	0.05	7.79	< 0.05	< 0.05
Silver	mg/kg	0.005	1.80	< 0.005	< 0.005
Sodium	mg/kg	2	11300	< 2	< 2
Strontium	mg/kg	0.05	4.02	< 0.05	< 0.05
Tellurium	mg/kg	0.005	< 0.005	< 0.005	< 0.005
Thallium	mg/kg	0.005	0.012	< 0.005	< 0.005
Tin	mg/kg	0.005	0.078	< 0.005	< 0.005
Uranium	mg/kg	0.005	0.088	< 0.005	< 0.005
Vanadium	mg/kg	0.05	0.54	< 0.05	< 0.05
Zinc	mg/kg	0.05	102.	< 0.05	< 0.05

Report ID: 376560-IAS
Report Date: 09-Dec-20
Date Received: 23-Nov-20

CERTIFICATE OF ANALYSIS

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Project #: 121619250.200.950.1401
Location: Nova Scotia
QA/QC Report

RPC Sample ID:			RB073662	RB073663
Type:			Blank	Blank
Analytes	**Units**	**RL**		
Aluminum	mg/kg	0.05	< 0.05	< 0.05
Antimony	mg/kg	0.005	< 0.005	< 0.005
Arsenic	mg/kg	0.05	< 0.05	< 0.05
Barium	mg/kg	0.05	< 0.05	< 0.05
Beryllium	mg/kg	0.005	< 0.005	< 0.005
Bismuth	mg/kg	0.05	< 0.05	< 0.05
Boron	mg/kg	0.05	< 0.05	< 0.05
Cadmium	mg/kg	0.0005	< 0.0005	< 0.0005
Calcium	mg/kg	2	< 2	< 2
Chromium	mg/kg	0.05	< 0.05	< 0.05
Cobalt	mg/kg	0.005	< 0.005	< 0.005
Copper	mg/kg	0.05	< 0.05	< 0.05
Iron	mg/kg	1	< 1	< 1
Lead	mg/kg	0.005	< 0.005	< 0.005
Lithium	mg/kg	0.005	< 0.005	< 0.005
Magnesium	mg/kg	0.5	< 0.5	< 0.5
Manganese	mg/kg	0.05	< 0.05	< 0.05
Mercury	mg/kg	0.01	< 0.01	< 0.01
Molybdenum	mg/kg	0.005	< 0.005	< 0.005
Nickel	mg/kg	0.05	< 0.05	< 0.05
Potassium	mg/kg	2	< 2	< 2
Rubidium	mg/kg	0.005	< 0.005	< 0.005
Selenium	mg/kg	0.05	< 0.05	< 0.05
Silver	mg/kg	0.005	< 0.005	< 0.005
Sodium	mg/kg	2	< 2	< 2
Strontium	mg/kg	0.05	< 0.05	< 0.05
Tellurium	mg/kg	0.005	< 0.005	< 0.005
Thallium	mg/kg	0.005	< 0.005	< 0.005
Tin	mg/kg	0.005	< 0.005	< 0.005
Uranium	mg/kg	0.005	< 0.005	< 0.005
Vanadium	mg/kg	0.05	< 0.05	< 0.05
Zinc	mg/kg	0.05	< 0.05	< 0.05

Report ID: 376560-OAS
Report Date: 14-Dec-20
Date Received: 23-Nov-20

CERTIFICATE OF ANALYSIS

for
Stantec Consulting Ltd
845 Prospect Street
Fredericton, NB E3B 2T7

rpc
921 College Hill Rd
Fredericton NB
Canada E3B 6Z9
Tel: 506.452.1212
Fax: 506.452.0594
www.rpc.ca

Attention: Jenny Reid
Project #: 121619250.200.950.1401
Location: Nova Scotia

Food Chemistry

Analytes:			Moisture	Fat (Acid Hydrolysis)
Units:			g/100g	g/100g
RL:			0.30	0.50
RPC Sample ID	**Client Sample ID**	**Date Sampled**		
376560-01	EX-WHSC-27	6-Oct-20	80.2	1.71
376560-02	EX-WHSC-21	6-Oct-20	79.2	1.86
376560-03	EX-WHSC-30	6-Oct-20	80.2	1.99
376560-04	EX-WHSC-26	6-Oct-20	80.7	1.22
376560-05	EX-WHSC-04	5-Oct-20	80.1	2.02
376560-06	EX-WHSC-27-OV	6-Oct-20	74.8	2.88
376560-07	EX-WHSC-21-OV	6-Oct-20	73.5	3.38
376560-08	EX-WHSC-30-OV	6-Oct-20	77.8	2.99
376560-09	EX-WHSC-26-OV	6-Oct-20	77.5	1.96
376560-10	EX-WHSC-04-OV	5-Oct-20	75.6	2.06
376560-11	LL-WHSC-25-OV	30-Sep-20	74.2	2.54
376560-12	NE-WHSC-39-OV	2-Oct-20	71.9	3.65
376560-13	NE-WHSC-14-OV	2-Oct-20	76.5	1.73
376560-14	NE-WHSC-45-OV	4-Oct-20	75.5	2.27
376560-15	NE-WHSC-44-OV	4-Oct-20	79.0	1.55
376560-16	NE-WHSC-13-OV	2-Oct-20	76.8	1.79
376560-17	EX-YLPR-26-CAR	5-Oct-20	72.9	1.40
376560-18	EX-YLPR-27-CAR	5-Oct-20	70.3	2.56
376560-19	EX-YLPR-29-CAR	6-Oct-20	74.7	2.69
376560-20	EX-YLPR-30-CAR	6-Oct-20	73.5	0.99
376560-21	EX-YLPR-28-CAR	6-Oct-20	73.2	1.45

This report relates only to the sample(s) and information provided to the laboratory.
RL = Reporting Limit

Bruce Phillips
Department Head
Organic Analytical Services

Jill Hay
Senior Food Chemistry Technician
Organic Analytical Services

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Project #: 121619250.200.950.1401
Location: Nova Scotia

Food Chemistry

Analytes:			Moisture	Fat (Acid Hydrolysis)
Units:			g/100g	g/100g
RL:			0.30	0.50
RPC Sample ID	**Client Sample ID**	**Date Sampled**		
376560-22	EX-YLPR-26-MUS	5-Oct-20	81.7	< 0.50
376560-23	EX-YLPR-27-MUS	5-Oct-20	79.2	< 0.50
376560-24	EX-YLPR-29-MUS	6-Oct-20	79.4	0.58
376560-25	EX-YLPR-30-MUS	6-Oct-20	80.8	< 0.50
376560-26	EX-YLPR-28-MUS	6-Oct-20	80.1	0.51
376560-27	LL-YLPR-13-CAR	30-Sep-20	71.7	4.48
376560-28	LL-YLPR-32-CAR	1-Oct-20	71.3	4.35
376560-29	LL-YLPR-33-CAR	1-Oct-20	75.1	3.08
376560-30	LL-YLPR-34-CAR	1-Oct-20	71.7	4.74
376560-31	LL-YLPR-35-CAR	1-Oct-20	74.9	1.65
376560-32	LL-YLPR-13-MUS	30-Sep-20	79.4	< 0.50
376560-33	LL-YLPR-32-MUS	1-Oct-20	80.3	< 0.50
376560-34	LL-YLPR-33-MUS	1-Oct-20	80.4	< 0.50
376560-35	LL-YLPR-34-MUS	1-Oct-20	80.0	< 0.50
376560-36	LL-YLPR-35-MUS	1-Oct-20	79.3	< 0.50
376560-37	NE-YLPR-02-CAR	2-Oct-20	72.2	4.57
376560-38	NE-YLPR-03-CAR	2-Oct-20	73.2	3.66
376560-39	NE-YLPR-09-CAR	2-Oct-20	71.8	2.15
376560-40	NE-YLPR-14-CAR	2-Oct-20	72.9	3.74
376560-41	NE-YLPR-17-CAR	2-Oct-20	72.6	3.67

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Project #: 121619250.200.950.1401
Location: Nova Scotia

Food Chemistry

Analytes:			Moisture	Fat (Acid Hydrolysis)
Units:			g/100g	g/100g
RL:			0.30	0.50
RPC Sample ID	**Client Sample ID**	**Date Sampled**		
376560-42	NE-YLPR-02-MUS	2-Oct-20	79.8	0.53
376560-43	NE-YLPR-03-MUS	2-Oct-20	79.4	< 0.50
376560-44	NE-YLPR-09-MUS	2-Oct-20	79.9	0.61
376560-45	NE-YLPR-14-MUS	2-Oct-20	81.3	0.56
376560-46	NE-YLPR-17-MUS	2-Oct-20	79.0	0.70
376560-47	LL-WHSC-31	30-Sep-20	80.6	2.32
376560-48	LL-WHSC-18	30-Sep-20	80.0	1.58
376560-49	LL-WHSC-19	30-Sep-20	78.1	1.46
376560-50	LL-WHSC-30	30-Sep-20	79.2	0.88
376560-51	LL-WHSC-25	30-Sep-20	78.8	1.21
376560-52	NE-WHSC-39	2-Oct-20	77.8	1.82
376560-53	NE-WHSC-14	2-Oct-20	78.1	0.88
376560-54	NE-WHSC-45	4-Oct-20	80.5	1.06
376560-55	NE-WHSC-44	4-Oct-20	80.1	1.31
376560-56	NE-WHSC-13	2-Oct-20	77.7	1.54

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Method Summary

OAS-FC01:Determination of Moisture in Foods (AOAC 950.46b(a))
OAS-FC06:Determination of Fat in Foods by Acid Hydrolysis (AOAC 948.15)

General Report Comments

Sample amounts provided were limited. Fat procedure amount was adjusted to a smaller amount to accomodate this.

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Project #: 121619250.200.950.1401

Summary of Date Analyzed

RPC Sample ID	**Analyzed**
376560-01	8-Dec-20
376560-02	8-Dec-20
376560-03	8-Dec-20
376560-04	8-Dec-20
376560-05	8-Dec-20
376560-06	8-Dec-20
376560-07	8-Dec-20
376560-08	8-Dec-20
376560-09	8-Dec-20
376560-10	8-Dec-20
376560-11	8-Dec-20
376560-12	8-Dec-20
376560-13	8-Dec-20
376560-14	8-Dec-20
376560-15	8-Dec-20
376560-16	8-Dec-20
376560-17	8-Dec-20
376560-18	8-Dec-20
376560-19	8-Dec-20
376560-20	8-Dec-20
376560-21	8-Dec-20

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Summary of Date Analyzed

RPC Sample ID	**Analyzed**
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376560-24	8-Dec-20
376560-25	8-Dec-20
376560-26	8-Dec-20
376560-27	8-Dec-20
376560-28	8-Dec-20
376560-29	8-Dec-20
376560-30	8-Dec-20
376560-31	8-Dec-20
376560-32	8-Dec-20
376560-33	8-Dec-20
376560-34	8-Dec-20
376560-35	8-Dec-20
376560-36	8-Dec-20
376560-37	8-Dec-20
376560-38	8-Dec-20
376560-39	8-Dec-20
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376560-41	8-Dec-20

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Summary of Date Analyzed

RPC Sample ID	**Analyzed**
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376560-43	8-Dec-20
376560-44	8-Dec-20
376560-45	8-Dec-20
376560-46	8-Dec-20
376560-47	8-Dec-20
376560-48	8-Dec-20
376560-49	8-Dec-20
376560-50	8-Dec-20
376560-51	8-Dec-20
376560-52	8-Dec-20
376560-53	8-Dec-20
376560-54	8-Dec-20
376560-55	8-Dec-20
376560-56	8-Dec-20