

**NI 43-101 TECHNICAL REPORT ON THE SAIL POND  
PROJECT, GREAT NORTHERN PENINSULA,  
NEWFOUNDLAND, CANADA**

for



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## 1.0 SUMMARY

Altius Resources Inc. (“Altius”) and Latin American Minerals (“Lat”) contracted Dr. Stephen Piercey, P.Geol., sole proprietor of Stephen J. Piercey Geological Consulting (“SJPGeoConsulting”), to prepare an independent National Instrument 43-101 (“NI 43-101”) compliant technical report on its Sail Pond Project (“project”; also referred to as “property”). This report is based almost exclusively on exploration work and studies completed by Altius during 2017, and ground geophysical surveys completed in 2018 and 2019.

The project is located on the Great Northern Peninsula, Newfoundland approximately 27 km south from the town of St. Anthony and is accessed by paved and well-maintained gravel roads, and secondary forest access roads. The project covers 13,500 hectares in three contiguous mineral exploration licenses (540 claims). The licenses were acquired through a combination of map staking and an option agreement executed on December 19, 2016 with local prospector, Tony Kearney (“Optionor”) who held the four-original map-staked mineral licenses (30 total claims) that are now included within the entire project area.

Altius acquired 100% interest in the Optionor’s four map-staked mineral licenses in March 2018 after it concluded certain cash payments to the Optionor. The Optionor retains a 1.5% Net Smelter Return (“NSR”) royalty on the entire project with Altius having a provision to purchase 1% of the NSR royalty for \$1,000,000 reducing the Optionor’s NSR royalty to 0.5%. Altius retains a Right of First Offer (“RoFO”) on the 0.5% residual NSR royalty.

A Letter of Intent (“LOI”) was executed and announced with LAT for the sale of the entire project on August 24, 2020. In consideration for the sale of the project, upon closing of the transaction, Altius will receive 19.9% of the outstanding shares of LAT and will retain a 2% NSR royalty over the project (less the Optionor royalty). Additionally, LAT is required to commit to \$500,000 in exploration spending on the project within 12 months of closing of the transaction, and \$1,000,000 within the first three years of signing the agreement.

At the core of the project are the parautochthonous units of the Goose Tickle Formation, Table Head Formation, and St. George Group, which collectively compose the “White Arm Window Anticline”. These units represent the transition from active to passive margin environments comprising rift-related siliciclastics to platform carbonates deposited during the Early Cambrian to Middle Ordovician. Rocks within the property have experienced multiple deformation events during the Appalachian orogenic cycle resulting in a series of parallel north-east trending faults and west verging folds.

Currently, two primary zones of mineralization (*i.e.* South Zone and North Zone) have been defined by Altius’ exploration work during 2017. Both zones are roughly northeast-orientated and strata bound, dipping to the east-southeast, and appear to be restricted to the western portion of the White Arm Window Anticline where a major thrust fault occurs. The surface expression of the South Zone measures at least 2 km in strike, whereas the North Zone measures at least 7 km in strike. The surface widths of both zones are variable, but are upwards of 200 m.

The South and North Zones are distinguished by thick, massive sequences of pervasively altered (*i.e.* silica  $\pm$  calcite  $\pm$  sericite) dolostone (or dolomitized limestone) of the St. George Group (possibly Catoche and/or Aguathuna formations) which seems to be the primary rheological ( $\pm$  chemical) trap rock for fluids in this region. Commonly, these dolostones are folded and bounded by shear zones or thrust faults, and often deform brittlely. Conjugate quartz veins are the predominant host for the Ag-Cu-Pb-Zn-Sb ( $\pm$  Au) mineralization and are found almost entirely within sequences or blocks of massive dolostone. Quartz veins can constitute upwards of 30-40 volume percent of the exposed rock, with individual quartz veins generally less than 10 cm in thickness but can reach up to 2 m in some locations. Mineralization has been observed in both sets of quartz veins. Similar styles of mineralization are present throughout the property, albeit

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hosted in narrower units (0.5 to 5 m widths) of dolostone, and there has been little work conducted thus far to evaluate these areas.

Sulphide mineralization within the two zones is comprised mostly of chalcocite, tetrahedrite, tennantite, sphalerite, boulangerite, galena and locally trace to minor amounts of pyrite, bornite, covellite, mimetite, sulfosalts, fluorite and apatite. Silver is almost exclusively associated with the tetrahedrite. Mineralization is generally within, or spatially associated with quartz veins; as open-space infilling (clots), disseminations, and as vein-parallel massive bands or veinlets. Mineralization also occurs within the matrix of dolostone breccias, possibly as a solution breccia matrix replacement.

During 2017, Altius personnel implemented an exploration program of mapping, prospecting, B-horizon soil sampling, trenching, channel sampling, vein structure analysis and mineral characterization. To date, the sample collection, excluding samples for QA-QC purposes, includes 256 rock grab samples, 1131 channel samples and 4021 soil samples. A total of 17 trenches have been excavated within the main mineralization zones. All soil samples have been analyzed using Altius' portable XRF whereby the values for Cu, Pb and Zn were determined. During the summer of 2018, a 130 line km grid, centered on the South and North Zones, with East-West orientated lines was cut and surveyed by ground IP and Resistivity geophysics. This survey has generated 20 targets for follow up with some ready for potential drill testing.

Based on the successful results of the 2017, 2018, and 2019 exploration programs, a two-phase follow-up program is recommended for late 2020 and early 2021. Phase 1 (late 2020) will involve additional soil sampling proximal to the North and South Zones and additional peripheral targets to obtain a more target specific soil survey with closer line spacing to better outline targets within existing metal anomalous zones. This phase will also involve additional trenching of high priority targets arising from the soil survey. Phase 2 will include an additional ground-based induced polarization survey with subsequent drill testing of highest priority targets. The estimated costs for the follow up programs include ~\$200,000 for the Phase 1 program and is ~\$683,000 for the Phase 2 program.

## **2.0 INTRODUCTION AND TERMS OF REFERENCE**

The Sail Pond Project is in Newfoundland, approximately 27 km south of the town of St. Anthony (Figure 1). The project covers 13,500 (135km<sup>2</sup>) hectares in three contiguous map-staked licenses. Recent exploration has shown that sediment-hosted silver and base metal-bearing quartz veins are concentrated within two northeast-trending zones, parallel to a significant regional fault of the same orientation and on the western limb of the White Arm Window anticline. The style and setting of the silver and base metal mineralization is unique for Newfoundland but does have some similarities to structurally controlled Zn-Pb-Ag-Sb veins found in districts such as the Coeur d'Alene district in Idaho and the Keno Hill vein systems, Yukon.

The Sail Pond Project is 100% owned by Newfoundland Labrador-registered Altius Resources Inc., a wholly-owned subsidiary of Altius Minerals Corp., an Alberta-registered company trading on the Toronto Stock Exchange under the symbol "ALS". Its corporate headquarters are located at:

2nd Floor, 38 Duffy Place, St. John's  
Newfoundland Labrador  
Canada A1B 4M5

On August 24, 2020, Latin American Minerals announced a Letter of Intent to purchase 100% of the project from Altius Resources Inc. In consideration for the purchase of the Project, on signing of a Definitive Agreement (the "Agreement"), the Company will issue to Altius 19.9% of the outstanding shares of the company. Other key conditions of the LOI include a minimum expenditure commitment on the project of

\$500,000 within the first 12 months and \$1,000,000 within the first 3 years of signing the Agreement. Additionally, the Company will issue to Altius an additional \$200,000 in stock on the earlier of 12 months from the date of signing or on the completion of an equity financing of at least \$2,000,000. Altius will retain certain preferential rights as it relates to an underlying 2% royalty.

Altius and LAT have retained SJPGeoConsultants Inc. to prepare an independent National Instrument 43-101 (“NI 43-101”) Technical Report on it Sail Pond Project. This report is based almost exclusively on exploration work and studies completed by Altius during 2017, and ground geophysics completed in 2018 and 2019.

This technical report was prepared by SJPGeoConsulting principal, Dr. Stephen Piercey, Ph.D., P.Geo., a “qualified person” as defined by NI 43-101. The author visited the project on June 28-30, 2017 and toured the South and North Zones. During this visit, the author provided guidance on the soil and rock sampling programs. The author also provided petrological examinations of representative suite of grab samples from trenches. The author also visited the project on May 28-29, 2018 to review work completed in 2017 and collect rock channel samples for verification of results from the 2017 trenching program. As part of this report, the author has reviewed the technical and historical exploration data provided by Altius.

Unless otherwise stated, the units of measures used in this report conform to the metric system. A list of standard abbreviations used in this report can be found in Table 1. All UTM coordinates referenced herein are within the NAD 27, Zone 21 projection system.

**Table 1.** Acronyms and abbreviations table with associated meanings used throughout this document.

Abbreviation	Term	Abbreviation	Term
DNR	Department of Natural Resources	P. Eng.	Professional Engineer
Au	Gold	P.Geo.	Professional Geologist
Ag	Silver	QA	Quality Assurance
Carb	Carbonate	QC	Quality Control
congl	Conglomerate	qtz	Quartz
Corp.	Corporation	UTM	Universal Transverse Mercator
Fe	Iron	UTME	UTM East
Inc.	Incorporated	UTMN	UTM North
IP	Induced Polarization	%	Percent
Ltd.	Limited	C	Celsius
NI 43-101	National Instrument 43-101	°	Degree
NTS	National Topographic System	ft	Foot
NSR	Net Smelter Royalty	g	Gram
NAD	North American Datum	g/t	Grams Per Tonne
oz.	Ounce	km	Kilometre
ppb	Parts per billion	m	Metre
ppm	Parts per million	mm	Millimetre
FA	Fire Assay	m <sup>2</sup>	Square Metres
AA	Atomic Absorption	Zn	Zinc
Cu	Copper	Sb	Antimony
Pb	Lead		

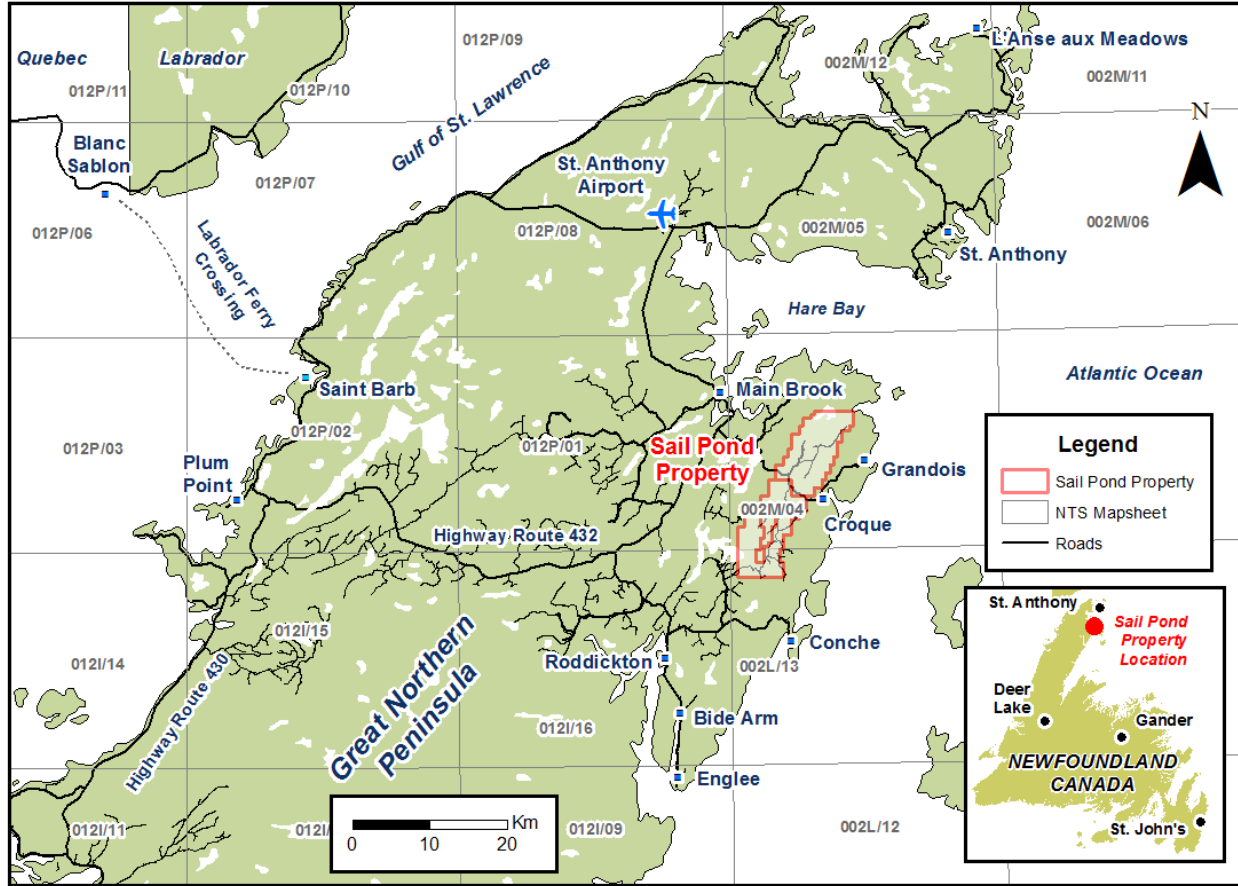


Figure 1. Location map of the Sail Pond Project (property) located on the Great Northern Peninsula of the island of Newfoundland.

### 3.0 RELIANCE ON OTHER EXPERTS

The author has relied on information provided by Altius on the legal status of claims and option agreement that form the Sail Pond project area. The author has reviewed the claim status information as posted on the Newfoundland Labrador Department of Natural Resources (“DNR”) website (<http://www.nr.gov.nl.ca/nr/>); however, the author shall not be held liable for any errors or omissions relating to the legal status of claims described in this report.

The geophysical portions of this report involved reliance on the expertise of Dr. Chris Hale, P.Geo., an independent consultant and Qualified Person with Intelligent Exploration. The internal reports (Hale and Gilliatt, 2018, 2019), previously written by Intelligent Exploration (IE) for former owner New Found Gold Inc. and Altius Resources Inc. and forms the basis of Section 9.5 and influenced the material provided by the author in Sections 17 and 18 of this report.

### 4.0 PROJECT DESCRIPTION AND LOCATION

The property consists of 3 map-staked mineral licenses covering 540 claims encompassing 13,500 hectares (135km<sup>2</sup>)(Table 2; Figure 2). Altius acquired 30 claims held under mineral licenses 024100M, 024428M, 024529M and though an Option Agreement with local prospector Tony Kearney of Roddickton, Newfoundland on December 19th, 2016 (Figure 2). Altius earned 100% interest in Kearney’s mineral licenses on March 12<sup>th</sup>, 2018 by making cash payments totaling \$30,000. In addition, Altius provided an

additional \$10,000 amount for regional exploration in the region that gives Altius Right of First Offer. Upon acquisition of 100% interest by Altius, Kearney retained a 1.5% net smelter return royalty (“NSR”) with Altius reserving the right to buy-back 1.0% of the NSR for \$1,000,000 and reducing Kearney’s royalty to 0.5%. Mineral licenses 024100M, 024428M, 024529M and 024530M were subsequently grouped to license 025831M on February 16<sup>th</sup>, 2018.

Coincident with the completion of the option agreement, Altius map-staked an additional 699 claims held under mineral licenses 024651M (245 claims), 024652M (255 claims) and 024653M (199 claims) on December 14<sup>th</sup>, 2016. An additional 10 claims were map-staked by Altius on April 25, 2017 held under licenses 025087M (8 claims) and 025089M (2 claims).

On February 15<sup>th</sup>, 2018, licenses 024651M, 025087M and 025089M were grouped to license 025829M containing 255 claims. Subsequently, on July 16<sup>th</sup>, 2018 license 024653M was reduced to from 199 claims to 70 claims to create new license 026268M which was eventually cancelled on March 13<sup>th</sup>, 2020. License 024652M remains as issued.

All licenses currently remain in good standing with the Mineral Lands Division of the Department of Natural Resources having met with all regulatory requirements.

The property is located on the Great Northern Peninsula within the province of Newfoundland and Labrador. The largest portion of the property is located on NTS map sheet 2M/04 with the southernmost tip located on map sheet 2L/13 (Figure 2).

**Table 2.** License information (as of 2020-09-09).

License Number	Issuance Date	Tenure Year	Claims	Km <sup>2</sup>	Hectares	Expenditures To Date
024652M	2017-Jan-13	4	255	63.75	6,375	\$ 544,783.57
025829M <sup>1</sup>	2017-Jan-13	4	255	63.75	6,375	\$ 395,277.10
025831M <sup>2</sup>	2016-Aug-24	5	30	7.5	750	\$ 212,712.35
		<b>TOTALS</b>	<b>540</b>	<b>135</b>	<b>13,500</b>	<b>\$ 1,152,773.02</b>

**Notes:**

<sup>1</sup> License 025829M grouped from licenses 024651M, 025087M and 025089M on 2018-02-15

<sup>2</sup> License 025831M grouped from licenses 024100M, 024428M, 024529M and 024530M on 2018-02-16



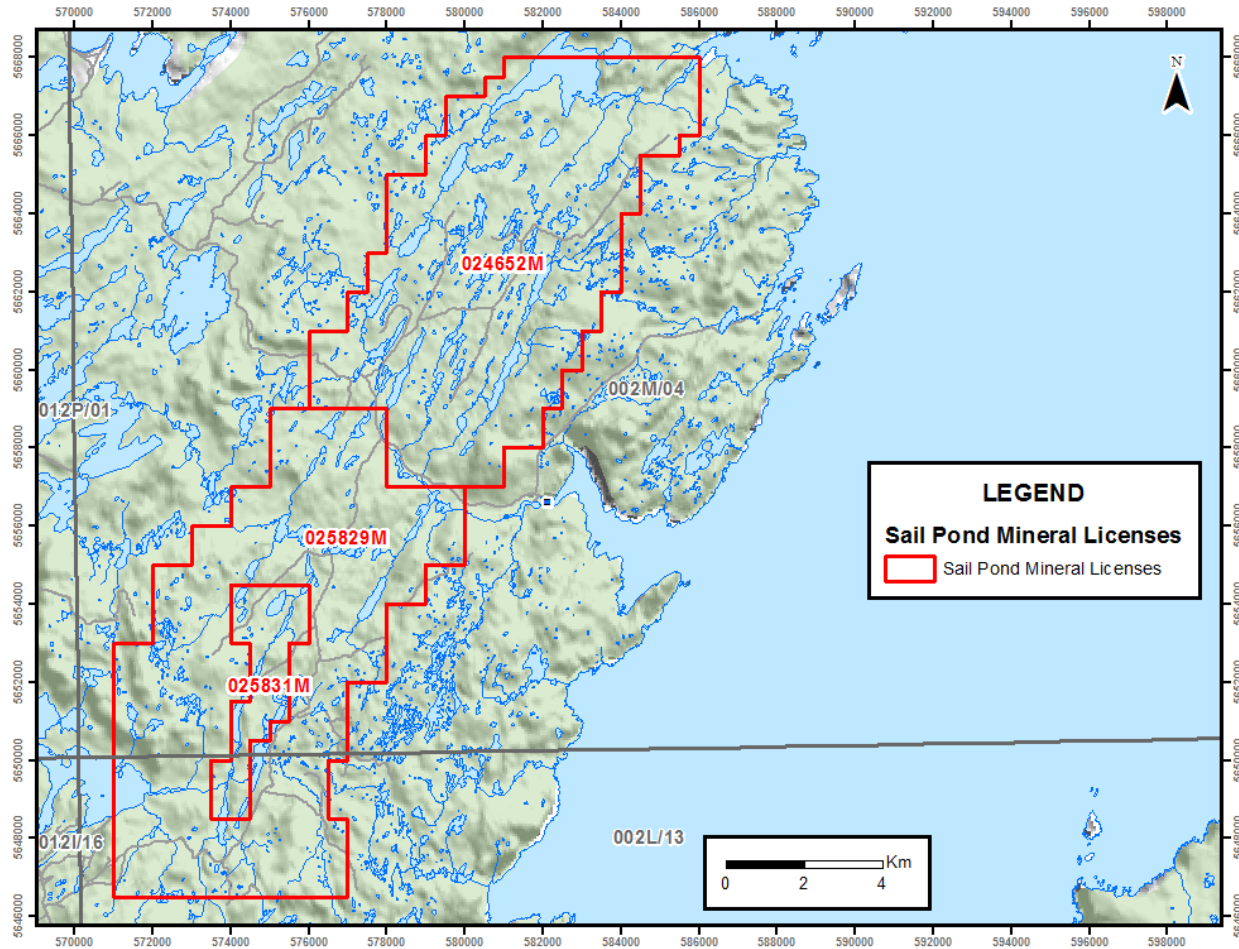


Figure 2. Mineral license map comprising the Sail Pond Project.

## 5.0 ACCESSIBILITY, LOCAL RESOURCES, INFRASTRUCTURE, CLIMATE AND PHYSIOGRAPHY

The property is accessible through a series of paved and unpaved provincial highways and forest access roads that intersect the property. Access from the south is 20km north of the town of Roddickton via route 434 (the Conche road). Access from the north is via route 432 which connects to the Croque Road, an all-weather road servicing the town of Croque and Grandois. Both the southern and northern access roads intersect a network of gravel forestry roads that provide excellent coverage throughout much of the interior of the property.

The property is centrally located between the towns of Roddickton to the southwest and Main Brook to the north. The main regional hub for the area, St. Anthony, hosts a range of services including hotels, hardware stores, hospital, and a deep-water port. St. Anthony has a population of approximately 2,500 and is serviced by a regional airport located 32 km northwest of the property boundary. Roddickton also hosts a wide range of services, including a hospital clinic, local RCMP detachment, accommodations, grocery store, gas stations, vehicle repair garage and various Government departments. The nearest deep-water port is in the town of Englee, approximately 35 km south of the property. A recent feasibility study has identified the potential for the construction of a deep-water port closer to the property within the town of Roddickton (Blumenthal, 2001). A series of overhead power utility lines transect property licenses 25829M, 24652M and 26268M between highway route 432 and the communities of Croque and Grandois.



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The Great Northern Peninsula, in general, has a maritime-type climate with cool summers and mild winters. The mean annual temperature is approximately 3°C, with a mean summer temperature of 11°C and a mean winter temperature of -4.5°C. The mean annual precipitation ranges from 1000 to 1100 mm. Closer to the project area as reported for the community of Roddickton by [www.weatherbase.com](http://www.weatherbase.com), the average temperature for the year is 2.1°C, with the warmest month, on average, being July with an average temperature of 15.1°C and the coolest month on average being February, with an average temperature of -10.5°C. The average amount of precipitation for the year in Roddickton is 975.4 mm. The month with the most precipitation, on average, is November with 99.1 mm of precipitation and the month with the least precipitation, on average, is April with an average of 58.4 mm.

The property area has a subtle rolling topography with a maximum elevation of 230m above sea level and typically less than 120m above sea level. The general topography is characterized by northeast-southwest trending ridges, valleys and congruent ponds with predominantly congruent rivers and streams (Figure 2). Linear wetland bogs are also common along stream courses. Karstification is prevalent throughout the carbonate stratigraphy and has greatly modified the topography through the formation of spring openings, sinkholes, and smaller solution openings (Stouge, 1981). Bedrock exposure is typically less than five percent with the greatest exposures along topographic ridges, low-lying mounds and roadside exposures. Overburden is typically less than a metre thick except in low lying areas gullies or bogs where overburden is up to a few metres in depth. Bedrock is concealed dominantly by vegetation, with patches of till or clay-rich diamicton, sand and gravel, and bog (Liverman and Taylor, 1994). A well-developed 'B-horizon' soil covers much of the property and forms a good to excellent indirect sampling medium to detect the presence of precious and base metal mineralization. Distally sourced and locally derived glacial erratics are ubiquitous with the highest concentration of boulders proximal to larger stream bodies. The general transport direction of glacial deposits is from west to east together with the north-northeastward dispersal of Long Range Inlier stones (Grant, 1992).

## 6.0 HISTORY

### 6.1 GOVERNMENT SURVEYS

The most recent Provincial Government regional mapping and detailed stratigraphic work in the St. Julien's Map area, including the White Arm Window area, was completed by Stouge (1982), Stouge *et al.* (1983), and Knight (1986, 1987). 1:50,000 scale mapping of topographic sheets 2M/04 (St. Julien's) and the adjoining 12P/01 (Salmon River) were undertaken by Stouge (1983). A lake sediment geochemical survey was released by Butler and Davenport (1982) based on a preliminary release from Davenport *et al.* (1981). Figure 3 shows colored contoured maps for Ag, Cu, Pb and Zn values from a subset of the Butler and Davenport (1982) lake sediment geochemical dataset focused on the Northern Peninsula, including coverage from within the Sail Pond Property. Aeromagnetic data was collected by the Geological Survey of Canada (GSC) during the 1950s to 1970s at approximately 300 m ground clearance along 800 m spaced E-W orientated lines. Figure 4 illustrates the 1st vertical derivative of the data from GSC aeromagnetic survey that was re-processed by Gerry Kilfoil of the Geological Survey for the Northern Peninsula on behalf of Altius. A 1:125,000 scale map was completed by the Geological Survey of Canada with subsequent publication on the Geology of the Strait of Belle Isle, Northwestern Insular Newfoundland, Southern Labrador and Adjacent Quebec (Cumming, 1983). A 1:250,000 scale map of the Long-Range Inlier was completed by Owen (1991) based on the work of Cumming (1983).

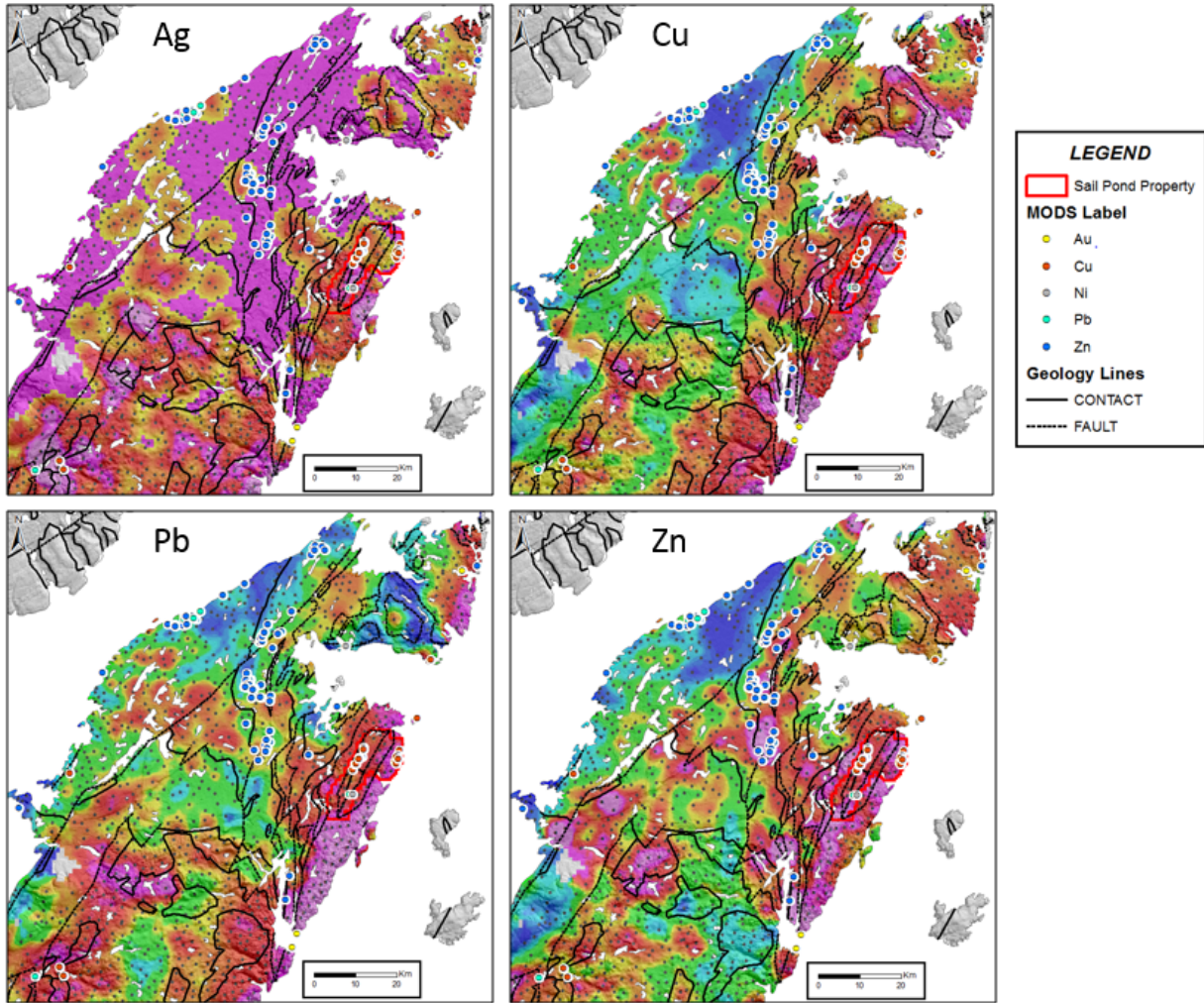


Figure 3. Colored contoured maps for Ag, Cu, Pb and Zn values (in ppm) for a subset of the Butler and Davenport et al. (1982) NL Government lake sediment geochemical dataset collected on the Northern Peninsula, including samples from within the Sail Pond property. The grey dots indicate the location of the lake sediment samples.

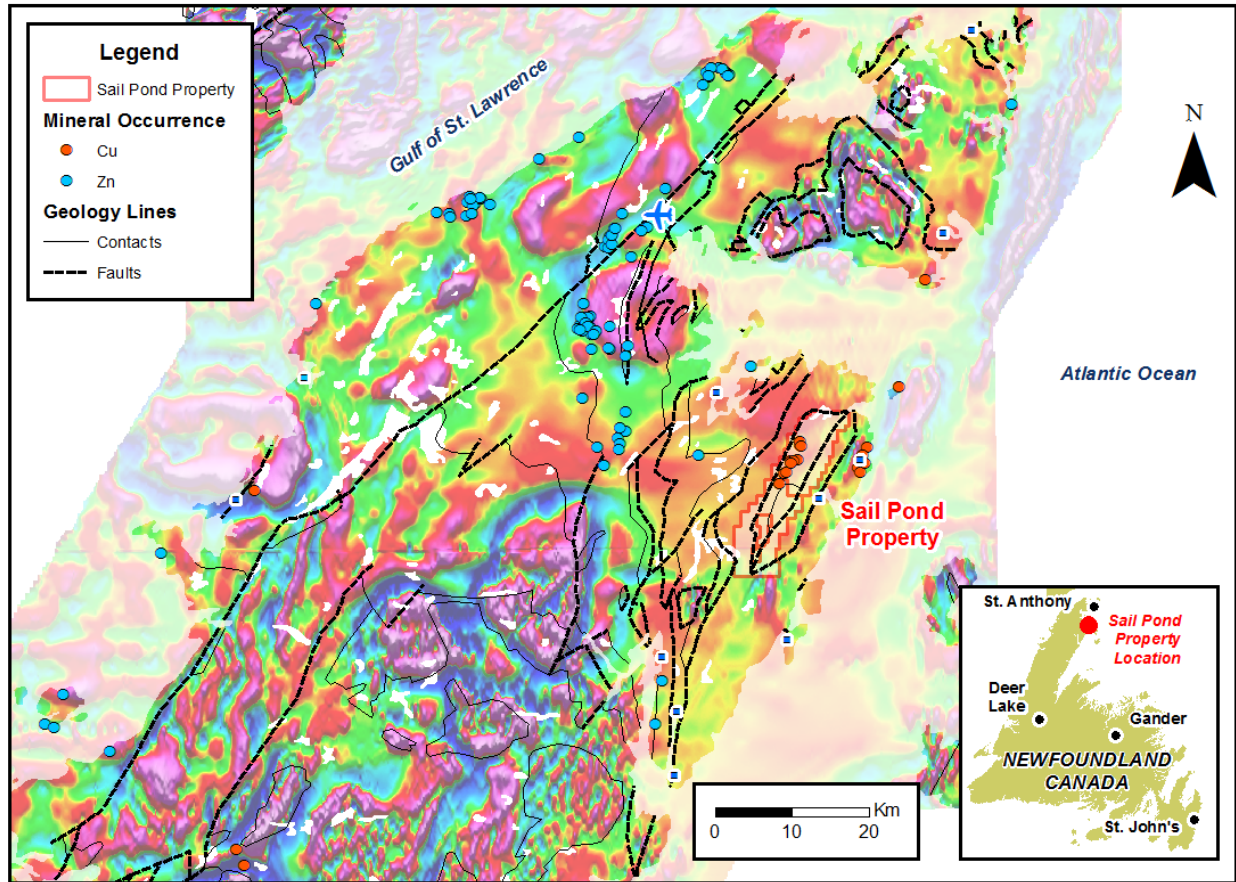


Figure 4. Image of the 1st vertical derivative from the NL Government regional aeromagnetic survey for the Northern Peninsula. Also shown are mineral occurrences for select elements from the Newfoundland Mineral Occurrence Data System (MODS).

## 6.2 INDUSTRY SURVEYS

The Great Northern Peninsula, including the area around the Sail Pond property, has received very minimal metal exploration as compared to other mineral belts and regions elsewhere in Newfoundland. Exploration interest in the area was initially focused on Zn exploration following the 1963 discovery of the Daniel's Harbour Zn mine (historical figures - 7 Mt @ 7.8% Zn mined between 1975 and 1990; Wardle, 2000), as well as subsequent non-economic Zn discoveries within the interior of the tip of the Great Northern Peninsula (e.g. Round Pound zinc prospect). Prior to this period, a few minor Cu occurrences near the abandoned community of St. Julien's were mined during the early 1900s, most notably the Copper Cod prospect, where 80 tons of ore were reported shipped from this site (Douglas *et. al.*, 1940). During the early 1980s, Noranda Exploration Company found Cu-Zn-Pb-Sb-Ag mineralization within the Sail Pond project, in the area now known as the North Zone. In addition to base metals, a few groups have also explored for marble in the area with the Bonus Deposit, located within the interior of the project, containing non-compliant NI 43-101 proven reserves of 5.5 Mt and 1.6 Mt of probable reserves (Aurion, 1997). The area has also had intermittent Au and Cu exploration but with minimal success. The only known modern geophysical surveys (*i.e.* airborne magnetic and vertical time domain electromagnetics (VTM)) was conducted by Eagle Ridge Minerals in 2008 over the northeastern portion of the project. The only known drilling of base metal targets was conducted by Canada Bay Resources in 2011 who drilled four drills holes totaling 419.4m on the Cu occurrences near St. Julien's, which yielded no significant results. Table 3



outlines the history of exploration on the Sail Pond project; the locations where this work was undertaken is shown in Figure 5.

**Table 3. Summary of historic exploration work.**

Year	Company	License Reference	Summary
1981	Noranda Exploration Company	025829M, 024652M	Work on 56 claims including lake bottom sampling, soil sampling and geological mapping and sampling which returned anomalous Zn, Cu, Pb, and Ag values highlighted by 4 grab samples assaying up to 10.3% Pb, 0.3% Zn, and 2.76 g/t Ag and 1 channel sample assaying 0.82% Cu, 0.72% Pb, 0.29% Zn, 147g/t Ag. Mineralization reported as sphalerite, galena, malachite, and chalcocite in quartz veins hosted in dolostone (Dimmell, 1982).
1987 - 1990	Aurion Minerals	024652M	Diamond drilling on 3 claim blocks focused on white marble deposits. Proven reserves of 10 million tonnes and potential reserves of 100 million tonnes of in-situ ore containing 96.5% calcium carbonate (non-NI 43-101 compliant)
1989	AVIP Resources	025829M, 024652M, 026268M	Work on 1 claim block consisting of 32 claims exploring for source of >1 g/t Au values from reported lake sediments 28 km away from the property to the north and to the south. Work including the cutting of a small detailed grid and 7 lake bottom sediment samples around Forest Hill (French 1989).
1991	Acadia Mineral Ventures	Outside of present licenses	Diamond drilling conducted on zinc property 4km north of Roddickton to test small zinc showing discovered by Philips Management Inc. in 1975. 9 holes drilled with the best intersection being 7.00% Zn and 3700 ppm Pb over 4.0 m in DDH 2. Minor sphalerite and pyrite within dolostone vugs encountered in most drill holes. Mineralization considered sub-economic, no further work was recommended (Saunders 1991).
1998	World Wide Kiln Service	All licenses	4 areas of chalcocite and malachite mineralization discovered by geological mapping, sampling, and prospecting of the Croque Property area (Mulrooney & Bromley, 1999).
2000 - 2001	Maurice Cooper	024652M	Prospecting in the area north of an old shaft site near Copper Cod prospect on the St. Julien's claim block. Reported copper, chalcopyrite and galena mineralization in float and abundant chalcopyrite, assaying > 1% Cu from a mine shaft sample (Cooper, 2000).
2002	Rubicon Minerals	024652M	Exploring for the source of gold in the local lake sediments. No source was ever found. Reported chalcocite stringers and disseminated chalcocite within quartz veins hosted in dolomite. Rock sample assaying 22 ppb Au, 1205 ppm As, 926 ppm Sb, 73 ppm Ag, 3750 ppm Cu, 247 ppm Pb and 910 ppm Zn (Flood, 2003).
2007	McGrath Brothers/ Eagle Ridge	026268M	Prospecting on the St. Julien's claim block around same copper showing as Cooper (2001). Copper occurrences associated with quartz-bearing shear zones and grab samples assaying up to 22.5% (McGrath, 2008).
2008	Eagle Ridge	026268M	Work included Airborne Mag and VTEM Geophysical Survey flown by Geotech Ltd on the St. Julien's claim block. VTEM survey identified 15 anomalous electromagnetic responses, 4 labeled as high priority targets (Galeschuk, 2009).
2009	Eagle Ridge	026268M	Prospecting and sampling on the St. Julien's claim block area; three main showings include Copper Cod, Coppermine Point, and Fischot Island. Mineralization described as being structurally controlled remobilized copper mineralization within quartz-bearing shear veins, except Fischot Island where mineralization and associated carbonate and epidote alteration occurs outside of shears and quartz veins. Geochemical samples in the area assayed up to 4.1% Cu and elevated silver values as high as 165ppm Ag were reported (Galeschuk, 2009).
2010	Peter Rogers	025829M	25 rock samples from rusty outcrops and quartz veining assaying up to 568 ppm Pb and 125 ppm Ni, 9 stream sediment samples (Muggridge, 2010).
2010	Canada Bay Resources	026268M	Sampling and prospecting work on the St. Julien's claim block regarding precious metals such as gold and silver as well as polymetallic type deposits. Reported gossan stained areas in the White Arm Window area (Freeman, 2011).
2011	Canada Bay Resources	026268M	Channel sampling conducted in region of previously sampled veins by Eagle Ridge. Reported grab samples values of 1.015% to 13.75% Cu. Four diamond drill holes (total meterage of 414.9 m); up to >1% Cu, 235 ppm As, 4.29 ppm Ag and 0.023 ppb Au (Walsh, 2011).
2011	Jim Snow	025831M	Initial discovery of mineralization within the South Zone by basic prospecting and soil sampling. Rock grab sample assaying (#406A) 764 g/t Ag, 4.0% Cu, 3.9% Pb, 1.92% Zn,

Year	Company	License Reference	Summary
			1.04% Sb, 0.15 g/t Au; and soil sample (#3) assaying 180.2 g/t Ag, 0.55% Cu, 1.07% Pb, 1.39% Zn, 0.25% Sb (Snow, unpublished).
2016	Tony Kearney	025831M	Prospecting work within the South Zone discovering malachite, azurite, and galena in outcrop and 45 rock samples assaying up to 464 g/t Ag, 2.48% Cu, 2.48% Pb and 4.53% Zn (Kearney, 2016).
2017 - 2018	Altius	024100M 024428M 024529M	Property exploration soil surveys, prospecting, trenching, and structural mapping. This report, Pilote (2017), and Smith et al. (2018)
2018	New Found Gold Inc.	024100M 024428M 024529M	Induced polarization survey and outline of potential targets (Haile and Gilliatt, 2018).
2019	New Found Gold Inc.	024100M 024428M 024529M	Ground based gravity survey over select portions of the (Haile and Gilliatt, 2019).

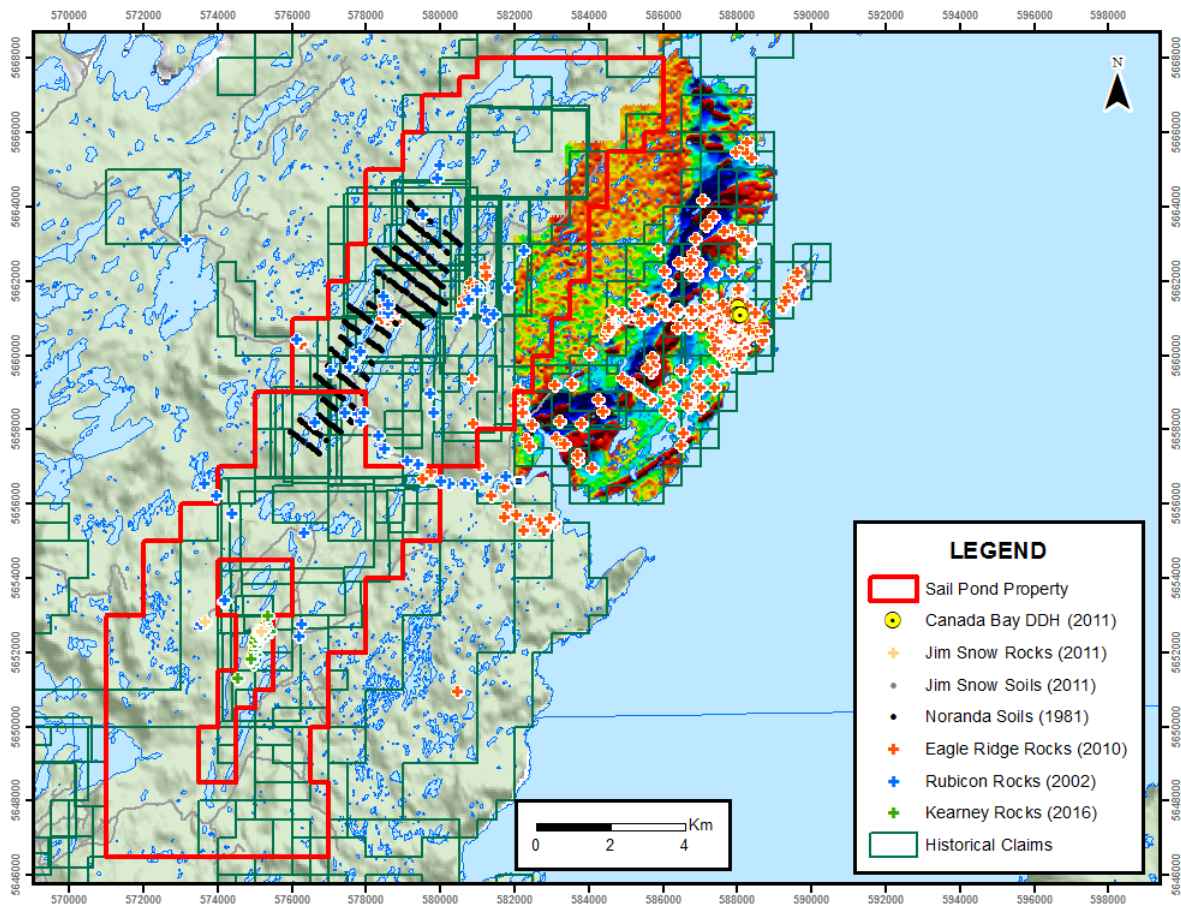


Figure 5. Distribution of the major components of the previous exploration work, as well as historical mineral license distribution, as reported in Table 3.

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## 7.0 GEOLOGICAL SETTING AND MINERALIZATION

### 7.1 REGIONAL GEOLOGY

The Sail Pond project is located within the Humber Zone of the Newfoundland Appalachians (Williams, 1979) (Figure 6). This Humber Zone is interpreted to represent the late Proterozoic to early Paleozoic margin of the Laurentian craton and has been affected by multiple deformation events during the Appalachian orogenic cycle (Williams, 1979; van Staal, 2007; van Staal and Barr, 2012). The Humber Zone consists of Proterozoic basement inliers interpreted to be representative of the Grenville Province (van Staal, 2007; van Staal and Barr, 2012), and this margin subsequently evolved during two stages of rifting. The first stage was associated with the opening of the Iapetus Ocean beginning ~615-570 Ma and the second stage is related to the opening of a peri-Laurentian seaway (known as the Humber Seaway) at 540-535 Ma (Williams and Hiscott, 1987; Cawood *et al.*, 2001; Allen *et al.*, 2010; van Staal *et al.*, 2013). The oldest syn-rift sedimentary rocks that are associated with a failed rift are commonly crosscut by tholeiitic basalts correlated to the Long-Range dyke swarm (614 Ma); however, these basaltic dykes and flows are truncated by a regional unconformity at the base of the Labrador Group (*e.g.*, Cawood *et al.*, 2001). More recently, van Staal *et al.* (2013) have argued that the Laurentian margin rifting represented a hyperextended margin that had a semi-continuous rifting history; however, this model requires further testing and is not entirely supported by existing stratigraphic and geochronological data for the Humber Zone and its offset equivalents.

The transition from an active to passive margin is interpreted to be during the deposition of the Early Cambrian Bradore Formation of the Labrador Group (*e.g.*, Williams and Hiscott, 1987). The opening of the Humber Seaway resulted in the formation of the Dashwoods block and initiated the development of a carbonate platform (Cawood *et al.*, 2001; van Staal, 2007). The Middle Early Cambrian to Early Middle Ordovician shallow-water carbonate sequences are composed of a high-energy carbonate platform, represented by the Port Au Port Group, a low-energy carbonate platform represented by the St. George Group, and a foundered carbonate bank represented by the Table Head Group, which are overlain by foreland basin flysch-related turbidites of the Goose Tickle Formation (Allen *et al.*, 2010) (Figure 7).

Westward thrusting of parautochthonous and allochthonous packages during closure of the Humber Seaway folded and thrust the underlying allochthonous units (*e.g.*, Knight 1986, 1987). Known as the Hare Bay Allochthon north of Canada Bay, this allochthonous package is generally stratigraphically like its southern counterpart, the Humber Arm Allochthon, and was emplaced in the Middle Ordovician during the Taconic Orogeny (Knight *et al.*, 1995; Allen *et al.*, 2010). These allochthonous deposits are composed mainly of siltstones, greywackes, and shales, but also mélanges, mafic agglomerate, tuff, pillow lava, basaltic lava, and peridotite (Knight, 1986, 1987; Knight *et al.*, 1995). Deformation intensity increases to the east and to the south throughout the area. The earliest deformation event ( $D_1$ ) is marked by westerly verging, tight to isoclinal variably plunging folds with southeasterly dipping axial planes.  $D_1$  is most likely the result of the emplacement of the allochthonous package (Stouge and Godfrey, 1982). The second deformation event ( $D_2$ ) folded  $D_1$ -related structures around tight, northeast plunging fold axes and is likely the result of the Salinic (Silurian) and/or Acadian (Devonian) orogenic overprinting. Both  $D_1$  and  $D_2$  structures are displaced along high angle faults and crenulation cleavages that trend north-south and east-west and are closely spaced in the eastern part of the region (Stouge and Godfrey, 1982). Overall, the region is dominated by northeast trending structures, which reflect long-lived basement structures that have undergone extension, evidenced by the pull-apart St. George and Deer Lake basins (*e.g.*, Cawood *et al.*, 2001; Allen *et al.*, 2010; Flood, 2003). The main fault system in the region is the Ten Mile Lake fault zone, which occurs approximately 50km to the west of the project and consists of a braided-system of northeast and north trending fault splays. Parallel to the Ten Mile Lake fault is a first order strike slip fault on the eastern margin of the Great Northern Peninsula from White Bay to St. Anthony (Flood, 2003).

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From White Arm Pond continuing southward, the Maiden Point Formation (part of the Hare Bay Allochthon sequence) eroded to expose autochthonous rocks in the White Arm Window. The Brent Island, Catoche, Aguathuna, Table Head, and Goose Tickle formations are all exposed and dissected by northeasterly trending faults and by a strong northeast trending cleavage. Open and gently warping folds to steeply dipping beds are present within the carbonates and local metamorphism of carbonate layers to white and brown marble can all be attributed to the Salinic and/or Acadian Orogeny (Knight *et al.*, 1995; Flood, 2003). Within the Catoche Formation are extensive, dolomitized burrows, which indicates fluids have passed through porous layers of the unit (Flood, 2003). Quartz veins are present within silty, burrowed layers and within the dolostones of the Aguathuna Formation, but are truncated against lower porosity, micritic layers. Early recognition during regional mapping recognized a quartz-carbonate-breccia around the northeast trending faults are accompanied by large, >15 m-wide zones of quartz vein arrays that trend approximately 600 m along strike in areas.

This brecciated unit hosts chalcocite ± malachite, ± azurite, and galena with lesser sphalerite and less commonly disseminated pyrite surrounded by chalcocite (Knight, 1986, 1987). This mineralization is now known as part of the Sail Pond North Zone.

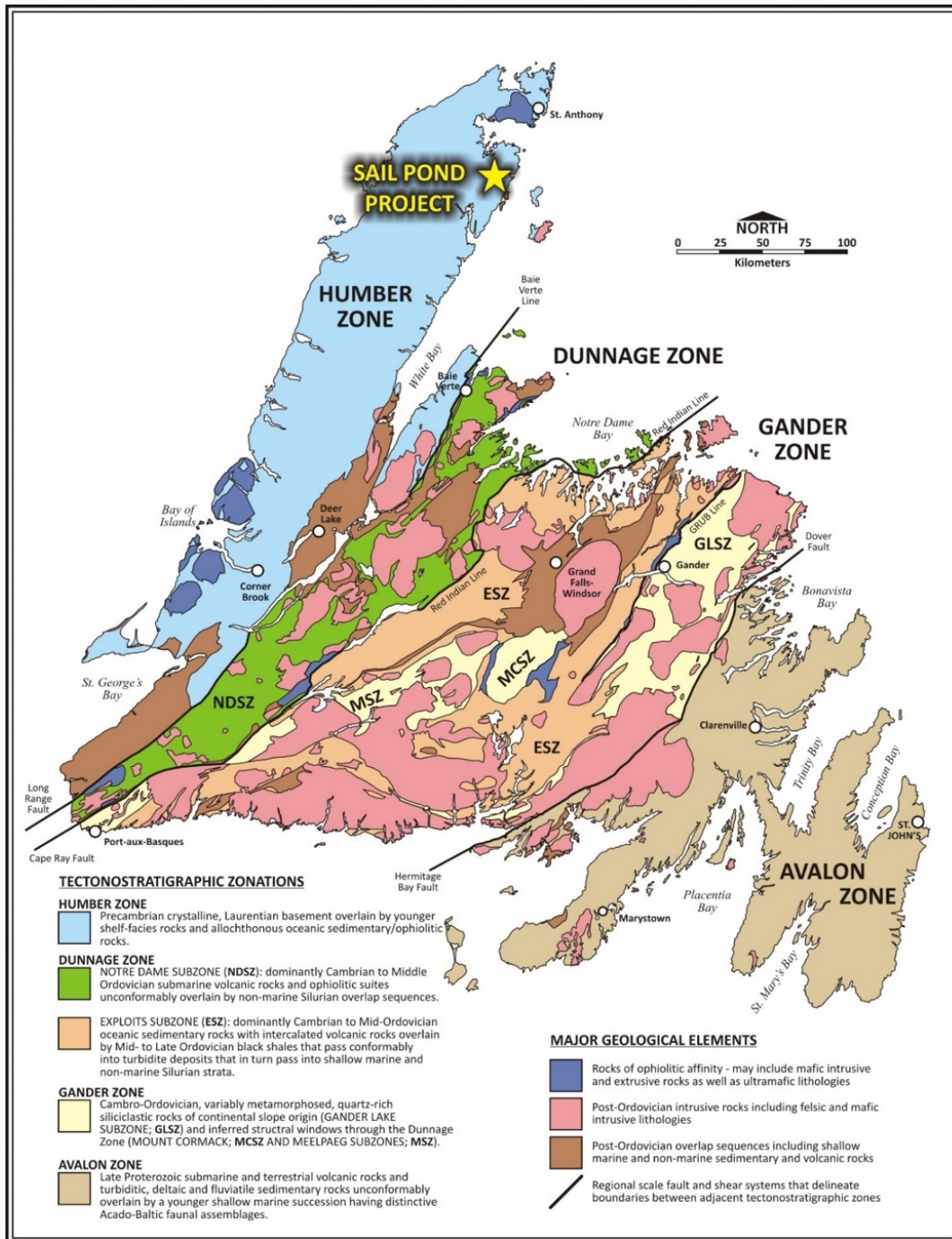


Figure 6. Geological map of the Appalachian orogen with tectonostratigraphic zones and location of the Sail Pond project (modified after Williams, 1979 and Williams et al., 1988).



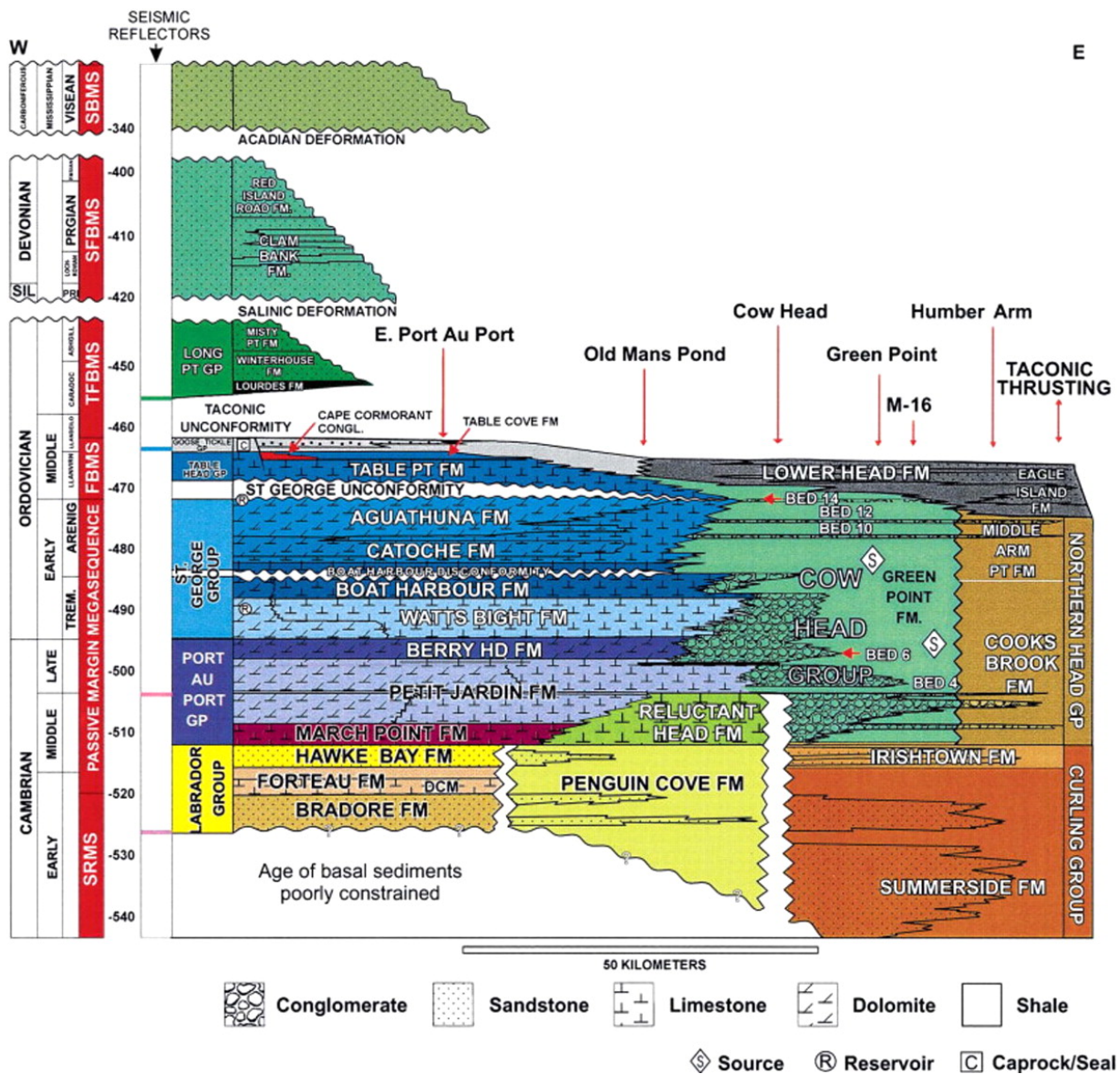


Figure 7. Schematic cross section of the stratigraphy/teonostratigraphy of the Laurentian margin in the western Newfoundland Appalachians (after Cooper et al., 2001, and references therein). The Sail Pond project is hosted within rocks of the St. George Group.

## 7.2 LOCAL GEOLOGY

Exposed on the Sail Pond property are the autochthonous units of the St. George Group (Brent Island Formation (~Boat Harbour Formation of Knight, 1986, 1987 and Knight *et al.*, 1995), Catoche Formation, and Aguathuna Formation), Table Head Group, and Goose Tickle Group; collectively these comprise the White Arm Window. Mainly to the east of the White Arm Window are the allochthonous units of the Epine Cadoret Formation, Maiden Point Slice Assemblage (Mélange and Maiden Point Formation), and Northern Arm Formation (Stouge and Godfrey, 1982); however, the Maiden Point Formation also wraps around the White Arm Window in all other directions. The following unit descriptions presented in stratigraphic order from bottom to top. Figure 8 is a simplified geological map for the Sail Pond project area.

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## 7.2.1 St. George Group

### 7.2.1.1 Brent Island Formation (~Boat Harbour Formation)

The Brent Island Formation consists of dark-grey to black, fine to medium-grained crystalline dolostone intercalated with pale-grey dolostone and black, bioturbated micritic dolostones. Large stromatolite and thrombolite mounds 1-3 m in diameter and 0.4-0.6 m in height are common and chert is common as nodules and irregular-shaped bands (Stouge and Godfrey, 1982).

### 7.2.1.2 Catoche Formation

The Catoche Formation is a grey, thin to medium bedded, burrowed, fossiliferous limestone that can be divided into four subunits (Knight, 1986). The basal subunit is a grey, thinly bedded, fossiliferous, burrowed limestone containing many thin beds of grainstone and rudstone. The subunit above contains massive, large thrombolite-sponge mounds and is host to large, shelly organisms. The next subunit above is a dark-grey, massive, burrowed limestone that is less fossiliferous and contains cross-laminated, wavy, thinly bedded grainstones. The uppermost subunit is a white limestone that includes stylolitic, peloidal grainstones together forming the Costa Bay Member (Knight and James, 1987).

### 7.2.1.3 Aguathuna Formation

The Aguathuna Formation is a buff- to yellow-weathered, light-grey, microcrystalline dolostone interbedded with light-grey to white, fenestral, cryptalgal limestone and thinly laminated, locally mud cracked dolostone (Knight, 1987).

## 7.2.2 Table Head Group

The Table Head Group (Knight and James; previously Table Head Formation of Stouge and Godfrey, 1982) consists of massive to medium bedded, grey to blue-grey to black micrites and biomicrites and nodular biomicrites, interbedded with silty, siliceous micrites and black, pyritiferous shales.

## 7.2.3 Goose Tickle Group

The Goose Tickle Group (Stenzel *et al.*, 1990; previously Goose Tickle Formation of Knight, 1986, 1987) consists of dark greenish to brownish grey pyritiferous siltstone and shale with minor beds of limestone and brown-weathered sandstone. Minor beds of pebble conglomerate composed of pebbles of sandstone, shale, and diabase also occurs. Sedimentary structures present in the siltstone beds include load casts, flute casts, and cross laminations. Both incomplete and complete Bouma sequences can be recognized.

## 7.2.4 Epine Cadoret Formation

The Epine Cadoret Formation consists of light grey- to white-weathered, fine-grained argillite, dark brown to black slate, and minor greywacke (Stouge and Godfrey, 1982).

## 7.2.5 Northwest Arm Slice

The Northwest Arm Slice consists of a *mélange*-like deposit of interlayered green and black pyritiferous shales that contain dismembered beds of numerous rock types, including grey to green to black chert, light-grey limestone, granular to sandy calcarenites, cross-laminated calcareous siltstones, fine- to coarse-grained greenish grey sandstones (Knight, 1986). The Northwest Arm Slice does not contain volcanic blocks and is unlike other *mélange* units in the area (Stouge and Godfrey, 1982).

## 7.2.6 Maiden Point Slice Assemblage

### 7.2.6.1 *Mélange*

The *mélange* consists of green to grey to black shale with serpentized, ultramafic blocks within (Stouge, 1983). This unit displays chaotic internal structure with more resistant beds forming boudins and blocks within the shale matrix.

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### 7.2.7 Maiden Point Formation

The Maiden Point Formation consists of two subunits (Stouge, 1983). The first subunit consists of mafic agglomerate, tuff, and basaltic lavas and pillow lavas. The lavas are amygdaloidal and the amygdules are filled with feldspar, chlorite, and epidote grains (Stouge and Godfrey, 1982). The subunit also contains diorite, gabbro, and diabase dykes and sills, which intrude the second subunit (Williams and Smyth, 1983). The second subunit contains grey to white-weathered, grey-green siltstones that are finely laminated and interbedded with black to grey shale and quartz-pebbles conglomerates that contain pebbles of blue, black, and white quartz, quartzite, feldspar, and shale (Stouge, 1983).

### 7.2.8 Mafic Dykes

One intact, aphanitic, rusty-weathered, dark green mafic dyke containing mm-scale pyrite intrudes into the Ordovician carbonates. The dyke is not cleaved or foliated suggesting it was emplaced after deformation. Three cm quartz-chlorite-epidote tension gashes are also present.

## 7.3 STRUCTURAL GEOLOGY

The structural geological setting of the Sail Pond prospect was part of a study by independent contractor Jean-Luc Pilote in fall 2017 (Pilote, 2017). Pilote (2017) illustrated that four deformation events have affected the property ( $D_1$ - $D_4$ ). The first deformation event resulted in a  $S_1$  fabric that is parallel to subparallel to bedding ( $S_0$ ) and is related to  $F_1$  folds throughout the region that are open to isoclinal and plunge towards  $210^\circ$ . It is interpreted that these folds and fabrics were related to dextral strike-slip to oblique thrusting that was interpreted to be Ordovician and related to Taconic thrusting associated with the closure of the Humber Seaway and obduction of ophiolitic allochthons onto the Humber Zone.  $D_2$  deformation is defined by a pervasive to discrete crenulation cleavage that is southeast dipping and is consistent with sinistral to normal movement associated with extensional faults; this is interpreted to be late Taconic in origin (Ordovician) and related to potential transition from thrusting to strike-slip motion. The  $D_3$  deformation is manifested as an west-dipping  $S_3$  crenulation of the  $S_{1-2}$  in the South Zone and a spaced cleavage in the North Zone and is interpreted to be related to southeast-directed revers faulting that potentially Salinic (Silurian) in origin. The  $D_4$  deformation is represented as a cm-scale spaced cleavage that has a steep, northerly dip and found mostly in the northern portion of the property. The cleavage is associated with open, upright to overturned folds that have axial planes parallel to the  $S_4$  cleavage and steep to shallowly plunging fold axes. The  $D_4$  event is interpreted to be related to sinistral normal to strike slip movement to the northwest and related to potentially Acadian (Devonian) deformation.



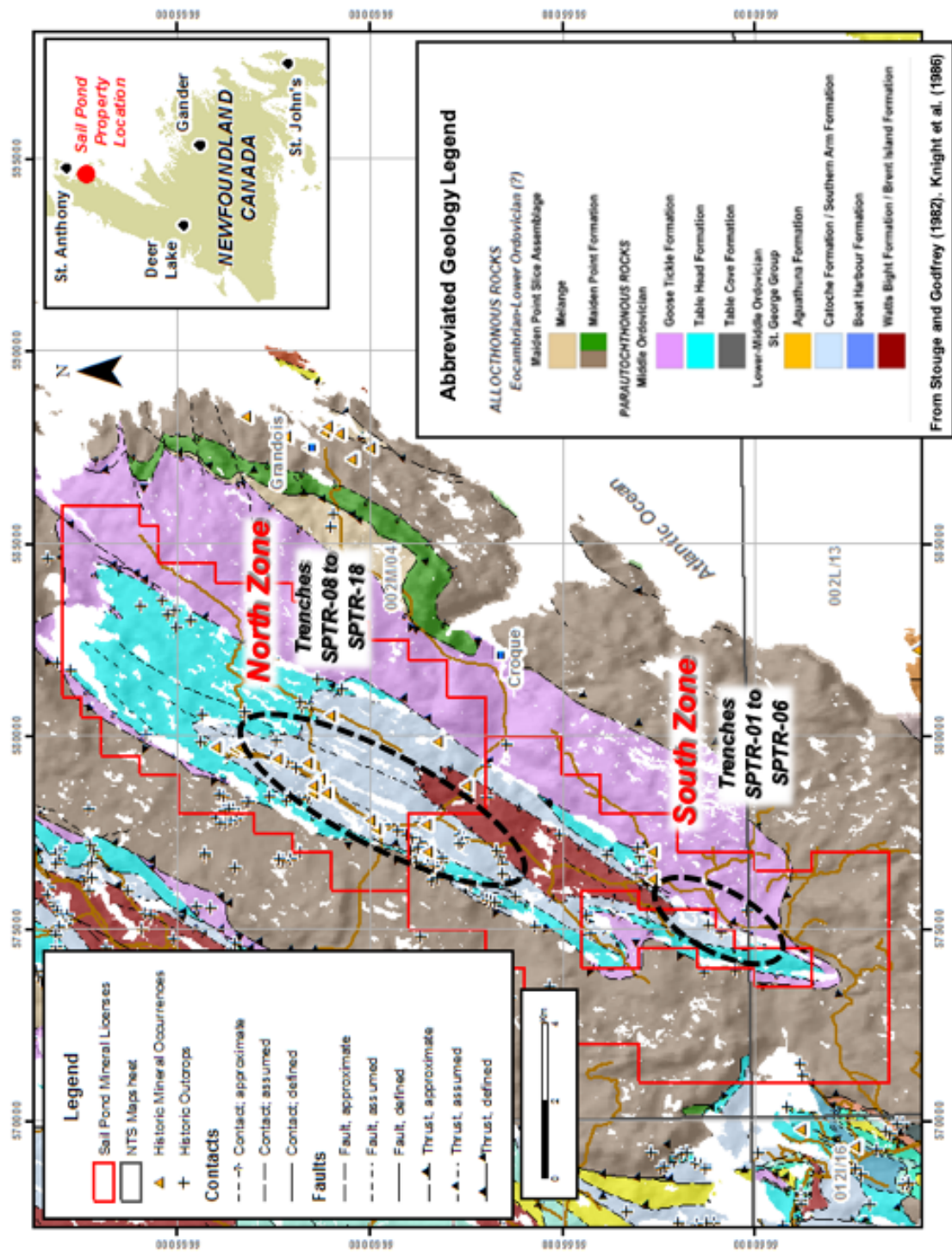


Figure 8. Simplified geology map (from Stouge and Godfrey, 1982; Knight, 1986) of the Sail Pond property. The northeast orientated Sail Pond window anticline is located at the core of the property.

## 7.4 MINERALIZATION

The mineralization in the Sail Pond property are found in two zones: the South Zone and North Zone and were defined during the fieldwork in 2018. Both zones are northeast oriented, stratabound, and dip to the

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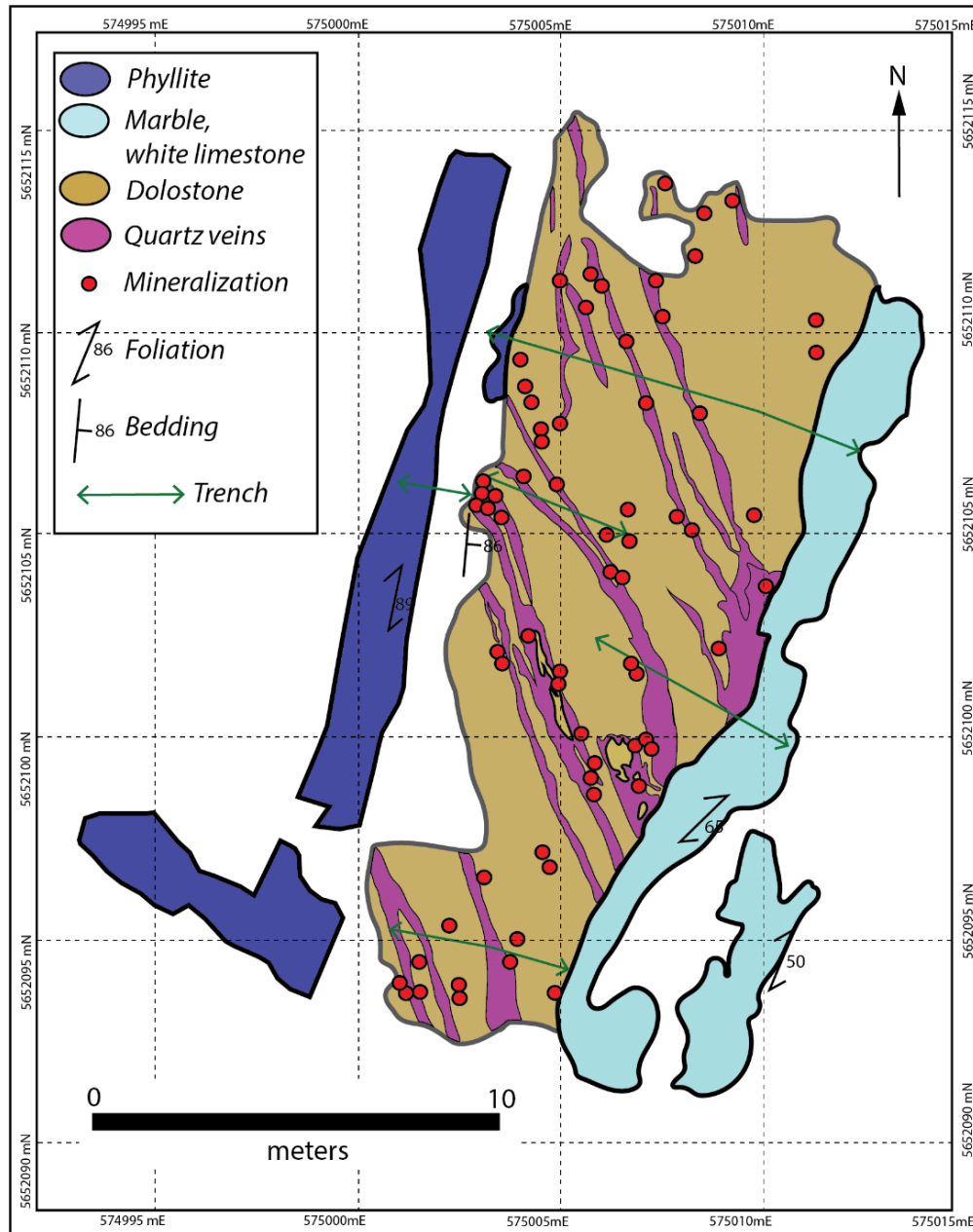
east-southeast and are restricted to the western portion of the White Arm Window Anticline, where the mineralization is associated with a major thrust fault (Figure 8). The South Zone is at least 2 km in strike on surface, whereas the North Zone is at least 7 km in strike. The surface widths of both zones are variable, but up to 200 m wide.

The South and North Zones contain thick, massive dolostone/dolomitized limestones of the St. George Group (Catoche and/or Aguathuna formations) that are pervasively altered (*i.e.* silica  $\pm$  calcite  $\pm$  sericite)(Plate 1). The dolostones are the sole hosts to mineralization and were likely the primary rheological ( $\pm$  chemical) trap rock for fluids in this region (e.g., Figures 9 and 10). The dolostones are commonly folded and bounded by shear zones and thrust faults that exhibit evidence for brittle deformation. Mineralization is hosted within conjugate quartz veins within sequences or blocks of massive dolostone. Quartz veins can constitute upwards of 30-40 volume percent of the exposed rock, with individual quartz veins less than 10 cm in thickness but can reach up to 2 m in some locations. The veins are both shear and tension veins and consist of white quartz with or without carbonate. Locally, the veins form swarms within the dolostone (Figures 9 and 10). Structural mapping of veins illustrate that they have two strike orientations: 1) a steeply dipping set of veins that are oriented NE-SW and parallel to sub-parallel with  $S_1$ ; and 2) veins that are east-west and parallel to  $S_4$  fabrics and cross-cut the NE-SW veins (Pilote 2017). Mineralization has been found in both sets of veins. The different vein generations are not always found together on the property, with some areas dominated by north trending veins (Figure 9), whereas other areas have both sets of veins (Figure 10); it is interpreted that this may be to differential strain partitioning during post- $D_2$  vein generation (Pilote, 2017). Mineralization occurs in both sets of veins but has been interpreted to be associated with  $D_1$ - $D_2$  deformation, predominantly, with potential remobilization during  $D_4$  (Pilote, 2017). Pilote (2017) argued that the main mineralization event was likely related to west-southwest directed dextral transpression/thrusting where pre-existing  $D_1$  faults likely acted as fluid conduits for Ag-Pb-Zn-Sb-(Au)- $SiO_2$ -bearing metamorphic fluids that deposited mineralization in structural (and chemical?) traps in the hanging walls of  $D_1$ - $D_2$  faults.

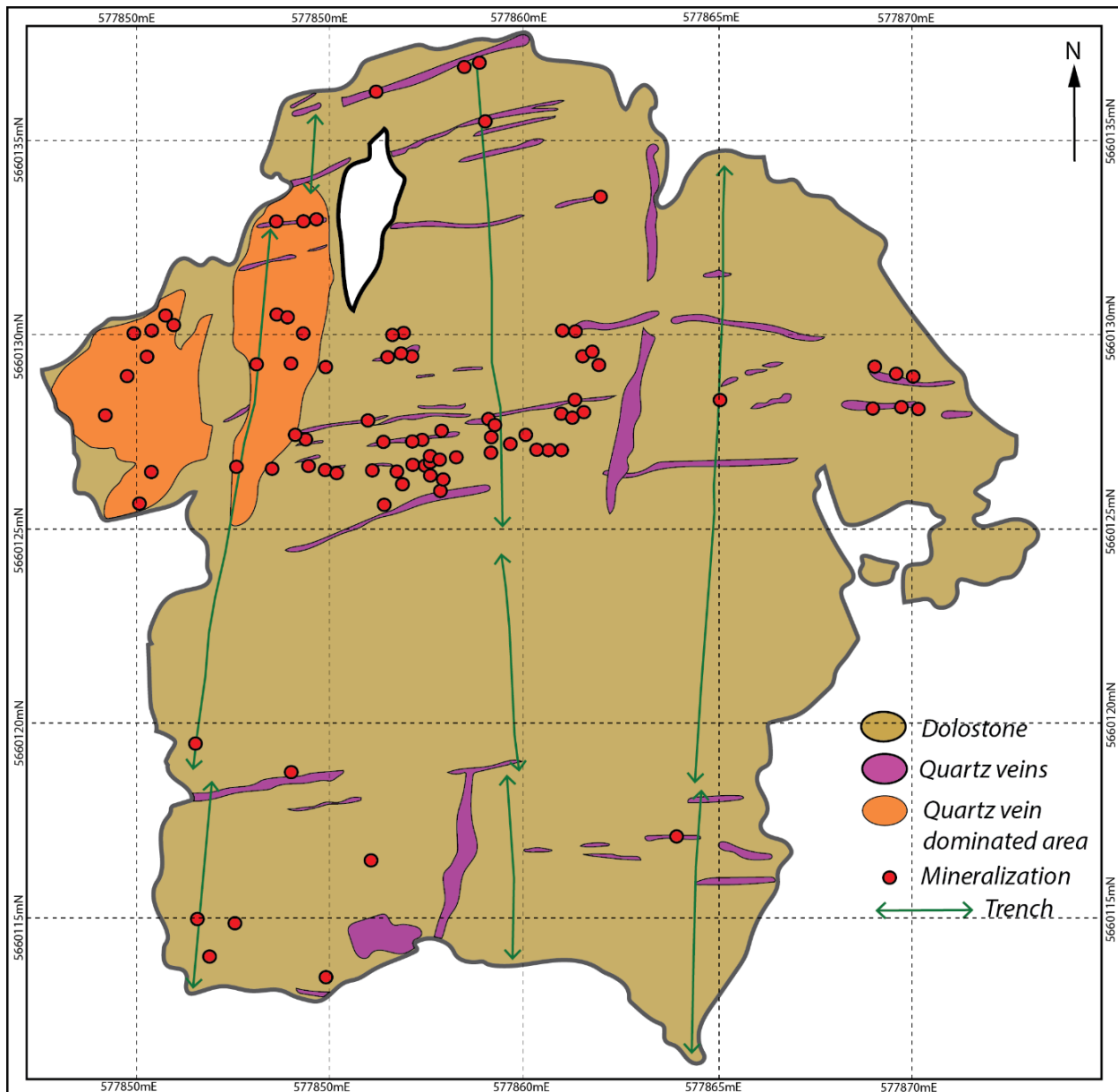
The mineralization associated with Sail Pond Mineralization is generally within, or spatially associated with quartz veins, occurring as open-space infilling (clots), disseminations, and vein-parallel massive bands or veinlets (Plate 2). Mineralization also occurs within the matrix of dolostone breccias, possibly as a solution breccia matrix replacement. The sulfide mineralization occurs as an assemblage of sulfides, sulfosalts, and oxides that are variably supergene influenced (e.g., Piercey, 2018). A detailed report on the mineralogy and mineral chemistry of the mineralization by Piercey (2018) outlined the nature of host rock alteration, mineralogy of the mineralization, and the metal residence within the mineralization and is summarized below. The host rocks to mineralization contain predominantly granular dolomite and calcite with minor illite/muscovite and granular pyrite with relict framboidal pyrite textures. Veins that host mineralization are dominated by granular to coarse quartz with undulatory extinction and is associated with coarse dolomite (+/-calcite) with minor coarse dolomite and calcite proximal to vein margins. The mineralization is dominated by sphalerite, galena, and tetrahedrite-tennantite that are complexly intergrown and are interpreted to have been deposited coevally. The latter sulfide-sulfosalt assemblage is interpreted to be a primary assemblage and is partly degraded into secondary, supergene minerals. Tetrahedrite-tennantite is the phase most highly affected by supergene processes and shows varying stages of replacement by an intergrown chalcocite-covellite-bornite assemblage, which itself is often partially to fully replaced/converted to malachite; needle-like Pb-arsenates (mimetite) are also found in this supergene assemblage.

Mineral chemistry of the sulfide phases illustrates most phases have simple mineral chemistry (*e.g.*,  $FeS_2$  and  $PbS$  are dominated by Fe, Pb, and S). Sphalerite is Zn-rich and Fe-poor with  $<0.7\%$  mol%  $FeS$ , but it is enriched in Cd. Tetrahedrite-tennantite contains abundant Cu, Zn, Fe, Sb, As, with varying Sb/(As+Sb); it the principal host mineral for Ag and contains up to 2% Ag and with an average of  $\sim 0.85$ - $0.95\%$  Ag. The process of supergene degradation of tetrahedrite-tennantite liberated abundant Zn, As, and Sb, resulted in

phases enriched in Cu that are spatially associated with Pb-As-rich phases (mimetite). Ag does not appear to have been significantly redistributed during supergene modification (i.e., is residually retained in the Cu-rich supergene masses).

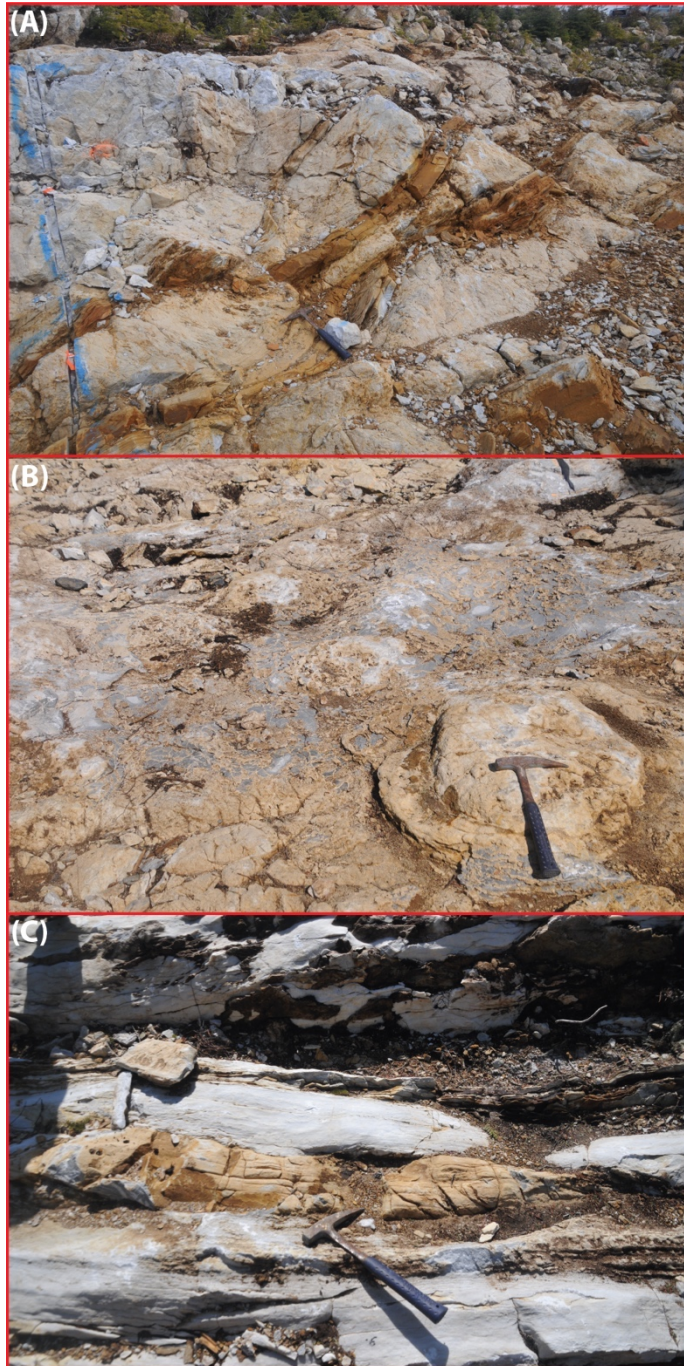


**Figure 9. Trench map of SRTR-03 from the South Zone illustrating the structural control on veins, that mineralization is hosted within both the veins and wall rock, and that mineralization is restricted to dolostone units, whereas limestones and phyllite/argillite units are generally barren. The strong north-northeast trend to mineralization is evident from the vein array.**



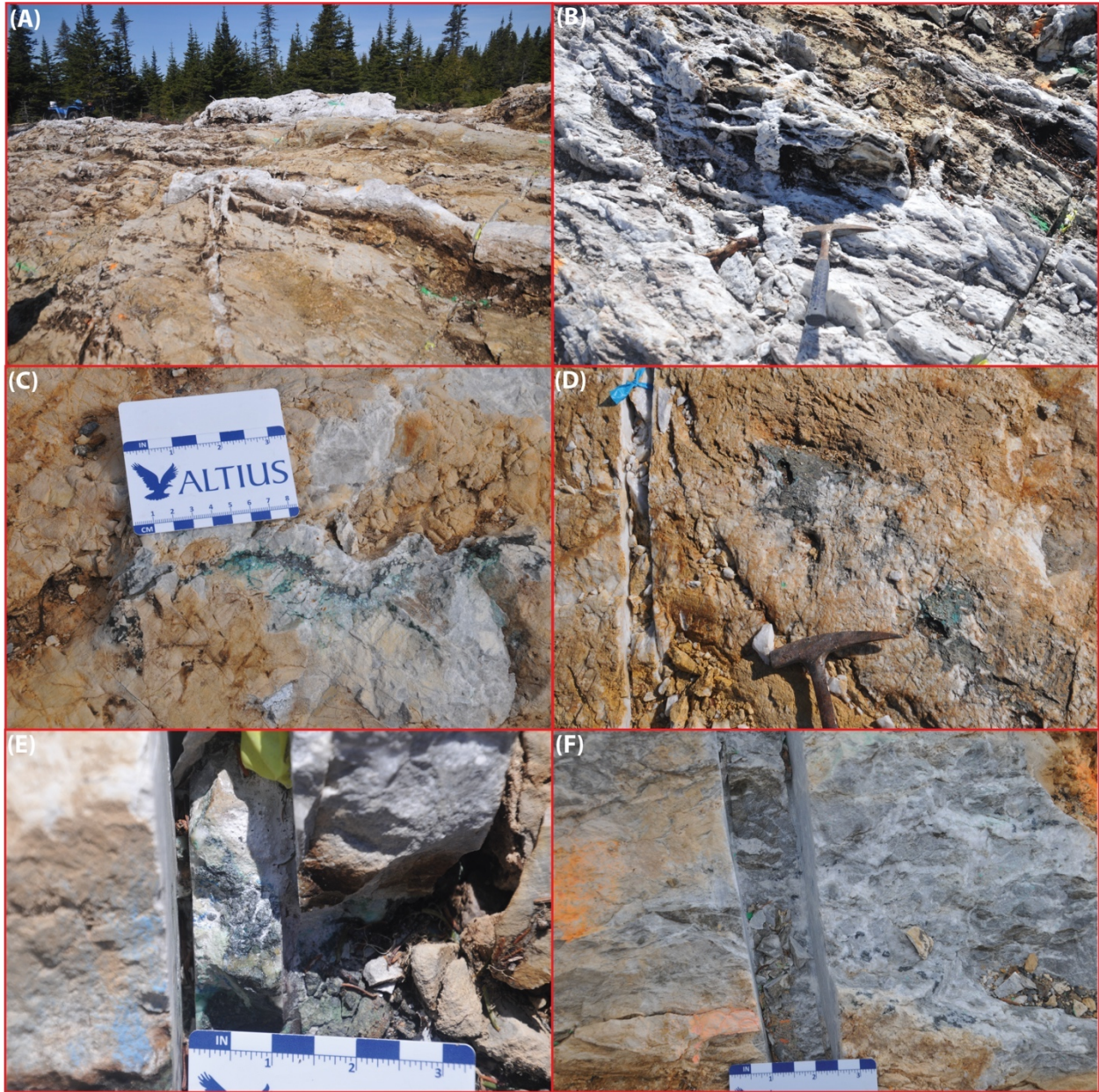
**Figure 10. Trench map of SRTR-10 from the North Zone illustrating the conjugate nature of veining with mineralization predominantly associated both veins and wall rock. Locally there are massive quartz-vein domains (breccias?). The orientation of these veins illustrates a regional-scale control on the localization of mineralization (i.e., oblique to regional scale thrust/transensional faults).**





**Plate 1. Representative host rocks to mineralization in the Sail Pond property. A) Deformed and boudinaged altered dolomite with more siltstone to mudstone layers (South Zone; Trench 1). B) Altered stromatolitic dolostone with burrows. Note stromatolite near the hammer (North Zone; Trench 11). C) Intercalated unaltered to weakly altered grey limestone with intercalated brown argillite layers (North Zone; Trench 16).**





**Plate 2. Representative photographs of mineralization from the Sail Pond property. A) Conjugate veins of quartz with minor mineralization. The veins are mutually cross cutting and generally trending  $060^\circ$  (those in foreground) and cross-cut by  $120^\circ$  veins. View in the photo is towards  $\sim 060^\circ$  (North Zone; Trench 18). B) Close up of a  $060^\circ$  trending vein cutting  $120^\circ$  veins (North Zone; Trench 18). C) Pod of high-grade mineralization in a shear vein containing sulfides and sulfosalts that have variable weathering to malachite hosted within quartz veins and altered dolostone (South Zone; Trench 1). D) Pods and clots of sphalerite-tetrahedrite-galena with minor malachite hosted in quartz veins and altered dolostone (North Zone; Trench 12). E) Close up of tetrahedrite-(sphalerite-galena)-rich mineralization (North Zone; Trench 16); F) Veined and altered dolostone with disseminated clots of tetrahedrite-sphalerite-galena (North Zone; Trench 9).**

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## 8.0 DEPOSIT TYPE

The Humber Zone is host to Mississippi Valley-type (MVT) Zn-Pb mineralization hosted within carbonate rocks (Lane, 1990; Bradley and Leach, 2003; Paradis *et al.*, 2007). While this was the original target for the Sail Pond project, the structural control on mineralization, the quartz-(carbonate)-like nature of mineralization, and the Ag-Sb-rich nature of the Zn-Pb mineralization is atypical for MVT-type mineralization (*e.g.*, Leach *et al.*, 2010), and more like structurally hosted Zn-Pb-Ag-(Sb) veins found in metasedimentary belts, such as Coeur d'Alene, Keno Hill, and the Kokanee Ranges (*e.g.*, Beaudoin and Sangster, 1992). Critical characteristics of these types of deposits include (*e.g.*, Beaudoin and Sangster, 1992):

- 1) they are structurally controlled vein systems with quartz- and/or carbonate-veins that contain sphalerite and galena with various Sb-Ag-(As)-bearing sulfosalts (*e.g.*, tetrahedrite-tennantite, pyrargyrite, argentite) and gangue minerals in veins are generally quartz, siderite, calcite and/or dolomite;
- 2) they are typically hosted in greenschist facies metamorphic environments dominated by metamorphosed shales, sandstones, and/or carbonates and calc-silicate rocks;
- 3) alteration associated with mineralization is not extensive and often proximal to the veins (within meters), consisting predominantly of clay (phyllitic) alteration (*e.g.*, sericite-chlorite);
- 4) host sequences often have a greenschist facies metamorphic grade;
- 5) mineralization is often proximal to regional scale structures, but not necessarily hosted directly within the main structures (*i.e.*, on subsidiary faults). The faults can be thrusts, transtensional or extensional faults. In some cases, they can be hosted within the cleavages of folds (*e.g.*, Coeur d'Alene; Leach *et al.*, 1988);
- 6) the metals for the mineralization are interpreted to have been sourced from basement rocks; sulfur is interpreted to be at the site of deposition and derived from local country rocks; and the fluids are interpreted to be a combination of metamorphic-hydrothermal fluids, meteoric fluids, and potentially basinal brines that range from dilute to saline;
- 7) mineralization forms as a result of mixing of fluids and or fluid boiling within structurally favorable domains and/or reactive host rocks (*i.e.*, orogenic vein systems); and
- 8) exploration targeting can be undertaken using a combination of geological and structural mapping; geophysical methods, and induced polarization due to the low sulfide content of the mineralization; and surficial geochemical methods.

## 9.0 EXPLORATION

### 9.1 PROSPECTING

A program of prospecting and reconnaissance geological investigations commenced in mid-June of 2017 concurrent with the start-up of the soil sampling program. The main purpose of this program was to delineate the surface expression of the precious and base metal mineralization (*i.e.* Ag, Cu, Pb, Zn, Sb) associated with the South and North Zones, and to discover new occurrences of mineralization elsewhere on the Sail Pond property.

Two to four people focused on this exercise for a period of approximately six weeks, aided by personnel that participated in the soil sampling program. Most of the effort was focused on the core and the western

side of the property, utilizing the network of existing roads and trails to facilitate travel. Two days were also spent examining Cu occurrences (*i.e.* Copper Cod prospect) near the community of St. Julien's/Grandois, which was the focus of exploration by previous exploration during the 2000s.

A total of 278 samples were submitted for analysis, including 250 rock grab samples from within or adjacent to the South and North Zones, six rock grab samples from the Copper Cod prospect, and 21 samples for QA-QC purposes. Sample observations were collected at the time of sampling, as well as observations of mineralized outcrops was documented to help delineate the surface expression of the zones. All results from surface grab samples are presented in Appendix 1.

The grab sample results from Altius' 2017 exploration program indicate that high-grade Ag, Cu, Pb, Zn and Sb concentrations are present throughout the two zones with no apparent zonation of metals and these samples are dominantly associated with samples of mineralized quartz-veins. Table 4 shows the average, mean, geometric mean, geometric standard deviation, maximum and minimum values for the samples collected within and peripheral to the main zones. Figure 11 provides plots of Ag versus Cu, Pb, Zn and Sb for the 250 grab samples. Table 5 shows the upper 90th percentile of 250 rock grab samples sorted by Ag from within and peripheral to the South and North Zones.

Six rock grab samples were collected from the waste dumps adjacent to the Copper Cod shaft (samples 12682-12685, 10529, 10530). The best assay result was from sample 10529 containing 15.9% Cu, 6.4 ppm Ag and 67 ppb Au.

**Table 4.** Data for grab samples from the Sail Pond property (no samples from the Copper Cod prospect).

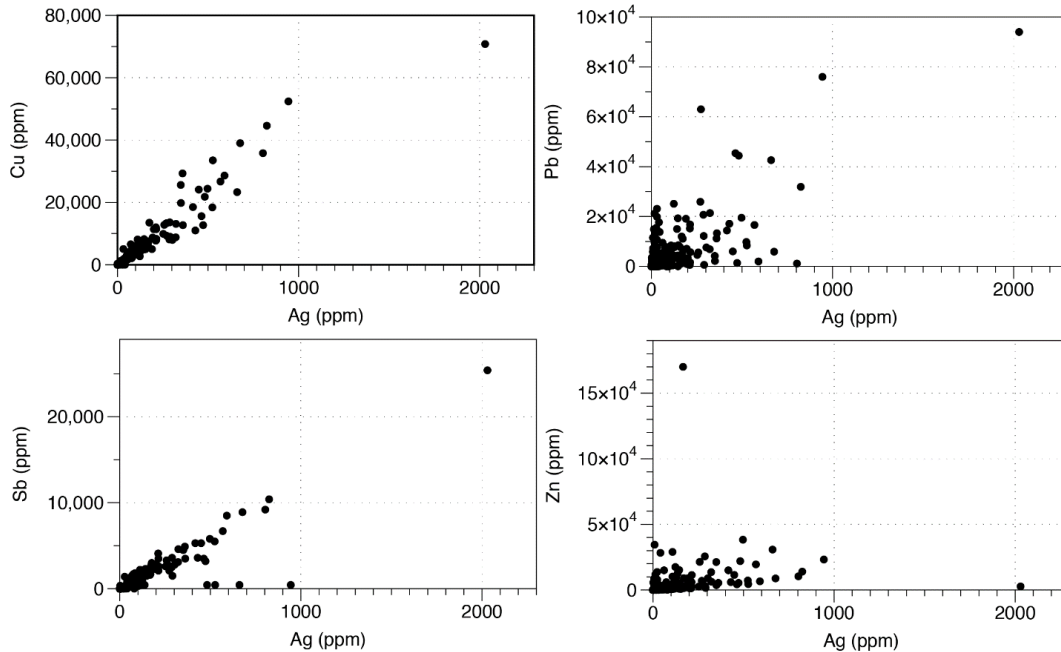
	<b>Ag (ppm)</b>	<b>Cu (ppm)</b>	<b>Pb (ppm)</b>	<b>Sb (ppm)</b>	<b>Zn (ppm)</b>
$\mu$	103.9	4580.1	5168.8	1099.7	4040.8
$s$	197.8	8750.1	10845.4	2257.0	12220.3
$\mu$ (geometric)*	17.7	680.8	743.0	152.0	546.4
$s$ (geometric)*	12.6	12.9	12.4	13.6	11.0
Minimum	0.1	2.5	3.0	1.5	2.5
Maximum	2030	70800	94000	25400	170000
$n$	250	250	250	250	250

Notes;  $\mu$  = mean,  $s$  = standard deviation,  $n$  = count. Geometric mean was utilized given the skewed nature of the metal data. This is likely a more accurate representation of the mean of the dataset.



**Table 5.** Grab samples from the Sail Pond property above the 90<sup>th</sup> percentile for Ag.

<b>Sample ID</b>	<b>Easting</b>	<b>Northing</b>	<b>Ag (ppm)</b>	<b>Cu (ppm)</b>	<b>Pb (ppm)</b>	<b>Sb (ppm)</b>	<b>Zn (ppm)</b>
12591	575030	5652226	2030	70800	94000	25400	2700
8329	575190	5652411	944	52400	76000	441	23200
10518	575068	5652344	825	44600	31900	10400	14000
12744	578741	5662294	803	35800	1146	9200	10400
12806	578646	5661193	677	39000	5900	8900	8800
8333	575018	5652304	661	23300	42600	441	30800
12523	577518	5659101	591	28600	1987	8500	6600
12741	578829	5662294	569	26700	16600	6700	19500
8337	577858	5660123	526	33500	8400	441	4500
12515	576335	5655236	524	18400	9800	5500	7200
10519	575093	5652362	497	24400	19500	5800	38300
8332	575071	5652343	482	21800	44400	441	22000
13420	579154	5662893	473	12700	1367	3200	5400
12595	575175	5652395	464	15600	45400	3500	4300
12606	575260	5652497	449	24100	6000	5300	11500
12808	577278	5659225	430	11000	17100	3600	6000
11830	575123	5652360	417	18500	14400	5300	15000
12617	576988	5658492	361	12700	13300	3500	5400
12747	578653	5661679	359	29300	11200	4900	5200
12574	579975	5660486	351	19800	2174	4500	3700
12753	577610	5659365	350	25600	4200	4500	21300
12666	575124	5652364	323	13100	21400	4600	6300
11965	575147	5652505	322	8808	6900	3100	13600
12807	578226	5659219	303	7950	7600	2800	8900
12740	578846	5662301	291	8979	626	1500	1559



**Figure 11. Plots of Ag vs. Cu, Pb, Sb, and Zn. Note the strong correlations between Ag and Cu and Sb. This is consistent with the Ag being hosted in tetrahedrite-tennantite as previously deduced from mineralogical work on the samples from the Sail Pond property.**

## 9.2 SOIL SAMPLING

The Cu-Zn-Pb-Ag mineralization on the Sail Pond property is contained within the White Arm window, an autochthonous carbonate sequence exposed among allochthonous rocks. The area is covered by mixed and coniferous vegetation and generally little overburden. The soil survey was defined by the White Arm Window and included 4021 B-horizon soil samples. Samples were prepared using standard protocols (see Section 11.1) and analyzed using portable X-ray fluorescence to obtain results in real time (see Piercey, 2017 and Babiak, 2018 for details). Line spacing was east-west and initially spaced at 100m and adjusted to 25m whenever anomalous Cu, Pb, and Zn were determined by pXRF and around areas containing multiple showings of visible chalcocite, malachite, azurite, galena, sphalerite, tetrahedrite, and tennantite mineralization were found. The pXRF results outlined two anomalous zones, the North Zone and the South Zone (Figure 12). The North Zone had anomalous Cu-Zn-Pb values for approximately 5km strike length and 0.6km wide, whereas the South Zone had an anomalous zone of approximately 1.5km strike length and 0.5km wide (Figure 12). In both areas, anomalous values of one base metal corresponded with other metals either directly, or within 100s of meters. For example, the highest Zn values recorded at 2995ppm corresponded to elevated Pb (4308ppm), Cu (1505ppm), Sb (87ppm), and As (473ppm), and pXRF detectable Ag (Babiak, 2018). Anomalous zones found east of the North and South Zones (Figure 12) are interpreted to reflect glacially/glacio-fluvially displaced materials from the North and South Zones as the predominant direction of glacial transport in this region is easterly (Grant, 1992). The highest soil anomalies were investigated further by trenching and channel sampling. All results from soil samples are presented in Appendix 2.

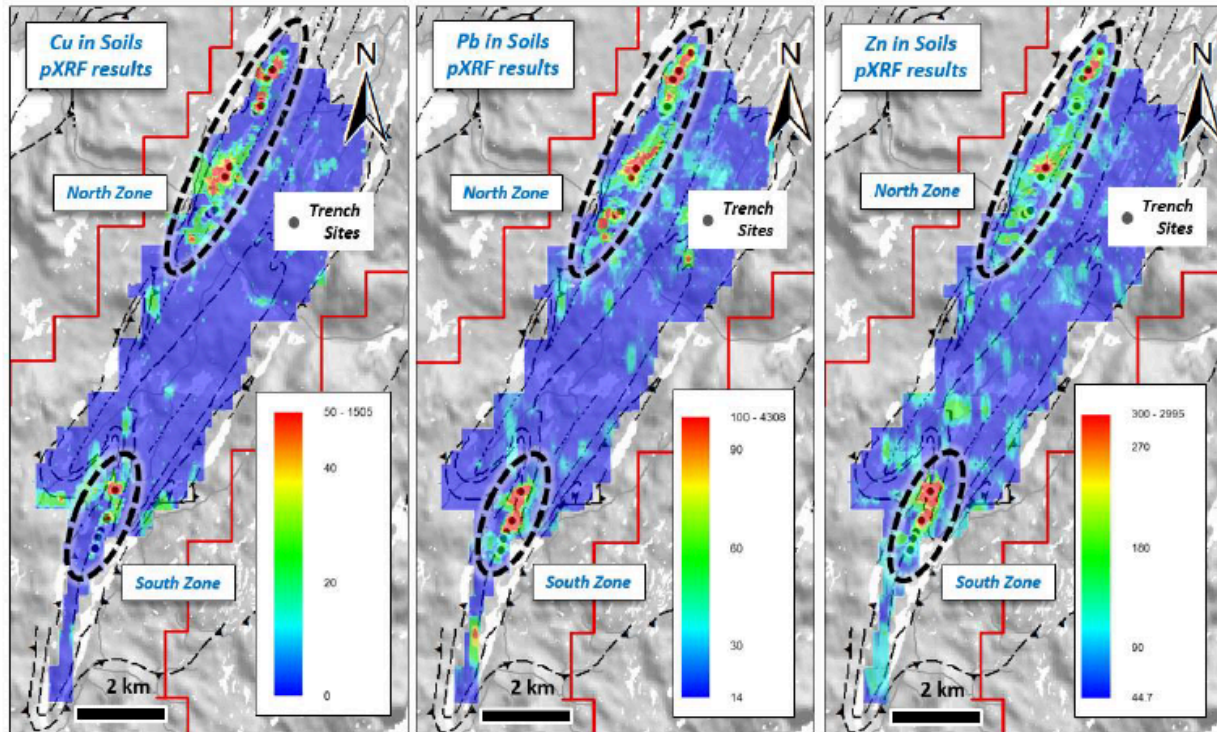


Figure 12. Color-gridded compilation for Cu, Pb, Zn in soils Sail Pond Property. All values are in parts per million.

### 9.3 TRENCHING PROGRAM

A trenching program was conducted on the Sail Pond Property from August to October 2017. A local heavy-equipment contractor was used to facilitate the trenching program. A total of 17 trenches were excavated to expose bedrock underlying soil geochemical anomalies and associated mineralized outcrops-boulder clusters in the South and North Zone areas (Figure 13). All trenches were cleaned of debris with a high-powered water hose, mapped for lithology, structure and mineralization, and appropriately channel sampled (refer to Section 9.4). The South Zone has 6 trenches totaling 6,615m<sup>2</sup> (0.66ha) and The North Zone has 11 trenches totaling 6,174m<sup>2</sup> (0.62ha). Table 6 summarizes the trenching program.



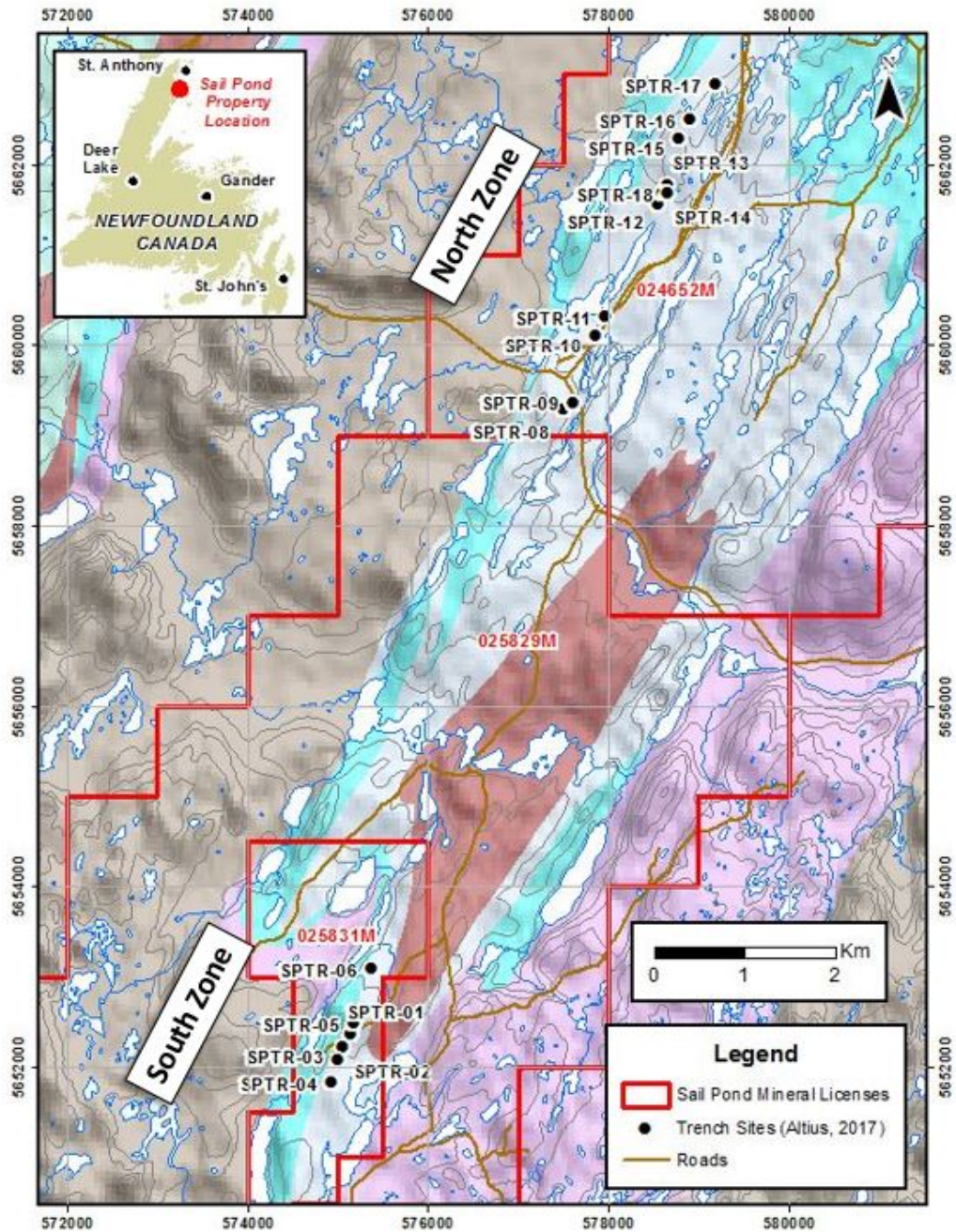


Figure 13. General location of the outcrop exposures as part of the 2017 Sail Pond trenching and channel sampling program.

**Table 6. Summary information for the 2017 trenching program.**

Trench Reference	Sail Pond Mineral Zone	UTM Easting (NAD 27, Zone 21)	UTM Northing (NAD 27, Zone 21)	Total Excavated Area (m <sup>2</sup> )	Excavation Date (start)	Government Accepted Reclamation Date	Threat to the Public, Wildlife or Environment	Intention or Rationale for Extending Reclamation Date to October 2019
SPTR-01	SOUTH	575137	5652370	3064	Aug. 5, 2017	Oct 2018	No	Eastern end, approximately 100 meters reclaimed; Requested for reclamation extension; significant geology and mineralization in area of poor outcrop exposure
SPTR-02	SOUTH	575045	5652237	1053	Aug. 11, 2017	Oct 2018	No	Requested for reclamation extension; significant geology and mineralization in area of poor outcrop exposure
SPTR-03	SOUTH	574999	5652092	382	Aug. 3, 2017	Oct 2018	No	Requested for reclamation extension; significant geology and mineralization in area of poor outcrop exposure
SPTR-04	SOUTH	574930	5651836	422	Aug. 4, 2017	Oct 2018	No	Requested for reclamation extension; significant geology and mineralization in area of poor outcrop exposure
SPTR-05	SOUTH	575172	5652496	788	Aug. 13, 2017	Oct 2018	No	Trench was reclaimed in October 2018
SPTR-06	SOUTH	575367	5653102	906	Aug. 17, 2017	Oct 2018	No	Trench was reclaimed in October 2018
SPTR-07	NORTH						planned but not excavated.	
SPTR-08	NORTH	577494	5659288	274	Sep.20, 2017	Oct 2018	No	Trench was reclaimed in October 2018
SPTR-09	NORTH	577607	5659368	78	Sep.20, 2017	Oct 2018	No	Trench was reclaimed in October 2018
SPTR-10	NORTH	577855	5660117	550	Aug. 10, 2017	Oct 2018	No	Requested for reclamation extension; significant geology and mineralization in area of poor outcrop exposure
SPTR-11	NORTH	577961	5660324	644	Sep.12, 2017	Oct 2018	No	Trench was reclaimed in October 2018
SPTR-12	NORTH	578552	5661568	299	Aug. 30, 2017	Oct 2018	No	Trench was reclaimed in October 2018
SPTR-13	NORTH	578660	5661785	455	Aug. 13, 2017	Oct 2018	No	Trench was reclaimed in October 2018
SPTR-14	NORTH	578605	5661688	482	Aug.30, 2017	Oct 2018	No	Trench was reclaimed in October 2018
SPTR-15	NORTH	578771	5662300	1252	Sep. 18, 2018	Oct 2018	No	Trench was reclaimed in October 2018
SPTR-16	NORTH	578901	5662500	1136	Sep. 2, 2017	Oct 2018	No	Trench was reclaimed in October 2018
SPTR-17	NORTH	579191	5662895	660	Aug. 27, 2017	Oct 2018	No	Trench was reclaimed in October 2018
SPTR-18	NORTH	578650	5661686	344	Sep.19, 2017	Oct 2018	No	Requested for reclamation extension; significant geology and mineralization in area of poor outcrop exposure



## 9.4 CHANNEL SAMPLING

As part of the trenching program outlined in Section 9.3, Altius personnel undertook a systematic channel sampling program to ascertain the metal concentrations and metal variability of the South and North zones. A total of 1131 channel samples were submitted for assay, 1032 channels, 31 duplicates, 24 blanks, and 44 standards.

Table 7 lists all of the samples assaying >50ppm Ag or >1% Cu, Pb, or Zn. Averaged grades for selected longer intervals are presented in Table 8. There were 301 samples assaying more than 1ppm Ag, 144 more than 10ppm Ag, 56 more than 50ppm Ag, and 30 more than 100ppm Ag. Base metal values correlated roughly with the silver grades. Copper grades reached 2.66% over 1m with 10 channel samples greater than 1% Cu. Lead grades reached 6.80% over 1m with 23 channel samples greater than 1% Pb. Zinc grades reached 3.77% over 0.5m with 7 channel samples greater than 1% Zn. The richest antimony sample was 0.60% over 0.3m. Gold grades reached 326ppb Au. Field descriptions of mineralization described fine-grained black metallic tennantite-tetrahedrite + chalcocite intergrowths as simply chalcocite. All results from channel samples are presented in Appendix 3.

**Table 7.** Assay samples from the trenching program that yielded results >50ppm Ag, or >1% Cu, Pb, or Zn.

Sample ID	Trench	Easting	Northing	Length (m)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Sb (ppm)	Au (ppb)
11679	SPTR-01	575002	5652273	1.35	355.7	13400	29300	11800	3400	231
11934	SPTR-01	575184	5652405	1.05	315.3	12500	22000	5700	3400	105
11910	SPTR-01	575126	5652360	0.95	273.8	7865	1502	4500	3600	51
11928	SPTR-01	575179	5652398	1.15	260.5	7490	16300	12900	2100	103
11687	SPTR-01	575010	5652277	0.93	253.1	7835	2700	9900	3300	14
11915	SPTR-01	575165	5652386	1.07	175.4	6249	13300	854	1900	32
11686	SPTR-01	575009	5652277	1	166.2	4892	698	3800	2300	15
11808	SPTR-01	575116	5652353	1.1	136.0	6585	6500	9100	1700	38
11922	SPTR-01	575174	5652393	1	134.7	4474	11000	9400	1500	33
11770	SPTR-01	575095	5652366	1.6	125.8	3820	12000	2900	1200	11
11904	SPTR-01	575121	5652369	0.97	90.5	2490	12300	4400	1100	21
11829	SPTR-01	575055	5652328	0.95	86.2	3021	1102	1874	1200	13
11785	SPTR-01	575106	5652369	1.1	86.0	3218	4200	15900	1000	24
11789	SPTR-01	575110	5652366	1	85.0	2849	3400	9300	1200	22
11909	SPTR-01	575123	5652364	1	74.2	2016	2900	463	1300	5
11936	SPTR-01	575188	5652407	1.07	67.9	2195	10000	2400	900	18
11772	SPTR-01	575098	5652361	1.5	65.4	2069	7000	3000	416	13
11811	SPTR-01	575120	5652370	1.05	59.3	1848	2500	714	384	47
11953	SPTR-01	575209	5652421	1.38	23.2	866	1512	28900	163	20
11654	SPTR-02	575060	5652232	0.3	661.9	16800	33500	14400	6000	235
11635	SPTR-02	575043	5652230	1.02	328.5	10000	12600	13400	3600	85
11626	SPTR-02	575038	5652233	0.5	280.6	12300	14600	37700	3600	107
11572	SPTR-02	575021	5652229	1.2	250.0	8041	4000	1751	2600	74
11664	SPTR-02	575026	5652230	0.5	223.9	5229	9500	6800	1200	65
11628	SPTR-02	575041	5652233	0.91	221.6	7506	31800	9000	2200	52
11676	SPTR-02	575032	5652219	1	154.2	3705	8100	700	2000	81
11629	SPTR-02	575041	5652232	1.5	121.9	3769	11100	1658	1200	27
11619	SPTR-02	575024	5652229	0.65	111.1	3100	2900	724	1100	8
11573	SPTR-02	579023	5652227	1.28	54.6	1827	5700	724	426	13
11571	SPTR-02	575022	5652226	1.1	53.5	1776	1011	646	291	32
11555	SPTR-03	575010	5652106	1	419.6	19400	39000	2700	5900	144
11544	SPTR-03	575007	5652101	1.15	102.5	3535	20100	5000	1200	22
11546	SPTR-03	575006	5652103	1	72.5	3138	2700	6500	1100	21
11556	SPTR-03	575006	5652107	1	56.1	2223	5600	2102	700	18
11893	SPTR-05	575263	5652501	0.95	206.5	7880	2500	7800	2400	39

Sample ID	Trench	Easting	Northing	Length (m)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Sb (ppm)	Au (ppb)
11880	SPTR-05	575160	5652316	1	122.8	4908	4000	9100	1900	12
11836	SPTR-05	575151	5652507	0.8	91.1	1632	1907	331	800	5
11839	SPTR-05	575152	5652506	0.9	65.5	2140	980	683	417	2.5
12856	SPTR-06	575395	5653101	1	93.5	4761	18300	6900	1100	32
12868	SPTR-06	575412	5653102	1	52.5	2127	4300	3500	368	32
11987	SPTR-06	575362	5653098	1.97	41.4	19	34400	42	34	6
11988	SPTR-06	575365	5653096	1	38.3	113	25900	175	32	9
12862	SPTR-06	575408	5653105	1	25.8	469	10000	100	68	24
12942	SPTR-10	577863	5660138	1.01	498.5	26600	68000	2700	3200	326
12944	SPTR-10	577854	5660125	1	79.2	2598	159	56	16	5
12952	SPTR-10	577859	5660125	1.04	57.2	2486	8900	407	352	5
12429	SPTR-11	577974	5660317	0.35	111.0	5730	3100	1143	1500	8
12376	SPTR-11	577983	5660321	1	79.1	3874	1380	878	1000	2.5
12453	SPTR-12	578557	5661571	1	67.5	4170	520	655	800	31
12430	SPTR-12	578563	5661568	1	64.3	2942	13200	455	600	16
12482	SPTR-13	578682	5661767	1	76.7	3572	239	921	800	30
12493	SPTR-13	578677	5661774	1	53.1	2670	384	597	700	41
14724	SPTR-14	578603	5661653	1	218.4	14800	136	2201	3200	2.5
14770	SPTR-15	578823	5662296	1	387.4	12300	17900	6900	3100	63
14786	SPTR-15	578777	5662294	1	62.5	2851	595	573	800	6
14780	SPTR-15	578799	5662296	1	61.0	1441	1684	4300	281	20
14881	SPTR-16	578884	5662507	1.1	467.2	25300	5800	4400	5600	89
14732	SPTR-17	579157	5662905	1	209.1	7204	12700	3600	2200	22
11366	SPTR-18	578648	5661681	1	94.3	5016	1392	708	1400	44
11339	SPTR-18	578650	5661690	1	50.3	2687	385	701	800	24

**Table 8.** Average grades for selected intervals from the Sail Pond trenching program.

Trench	Channel	Description	Grade
SPTR-01	A	Full Channel	15.5 m @ 60.1 ppm Ag, 0.203 % Cu, 0.291 % Pb, 0.110 % Zn, 665 ppm Sb, 0.026 g/t Au
SPTR-01	A	11679-11680	---2.7 m @ 184.9 ppm Ag, 0.691 % Cu, 1.556 % Pb, 0.638 % Zn, 1754 ppm Sb, 0.125 g/t Au
SPTR-01	A	11686-11687	---1.9 m @ 208.1 ppm Ag, 0.631 % Cu, 0.166 % Pb, 0.000 % Zn, 2782 ppm Sb, 0.015 g/t Au
SPTR-01	B	11695-11696	---1.5 m @ 25.6 ppm Ag, 0.055 % Cu, 0.115 % Pb, 0.161 % Zn, 181 ppm Sb, 0.016 g/t Au
SPTR-01	E	11618-11620	---3.2 m @ 16.3 ppm Ag, 0.062 % Cu, 0.135 % Pb, 0.035 % Zn, 99 ppm Sb, 0.022 g/t Au
SPTR-01	L	Full Channel	12.2 m @ 29.0 ppm Ag, 0.092 % Cu, 0.317 % Pb, 0.153 % Zn, 240 ppm Sb, 0.006 g/t Au
SPTR-01	L	11770-11772	---4.3 m @ 81.2 ppm Ag, 0.257 % Cu, 0.883 % Pb, 0.408 % Zn, 672 ppm Sb, 12 g/t Au
SPTR-01	M	Full Channel	22.9 m @ 20.8 ppm Ag, 0.078 % Cu, 0.159 % Pb, 0.128 % Zn, 214 ppm Sb, 0.006 g/t Au
SPTR-01	M	11807-11808	---2.1 m @ 83.6 ppm Ag, 0.381 % Cu, 0.469 % Pb, 0.000 % Zn, 933 ppm Sb, 0.024 g/t Au
SPTR-01	M	11788-11789	---2.3 m @ 60.2 ppm Ag, 0.190 % Cu, 0.224 % Pb, 0.491 % Zn, 645 ppm Sb, 0.011 g/t Au
SPTR-01	O	Full Channel	8.7 m @ 55.5 ppm Ag, 0.158 % Cu, 0.345 % Pb, 0.091 % Zn, 701 ppm Sb, 0.010 g/t Au
SPTR-01	P	Full Channel	8.5 m @ 23.3 ppm Ag, 0.080 % Cu, 0.271 % Pb, 0.012 % Zn, 243 ppm Sb, 0.006 g/t Au
SPTR-01	Q	Full Channel	46.2 m @ 21.3 ppm Ag, 0.072 % Cu, 0.158 % Pb, 0.021 % Zn, 198 ppm Sb, 0.009 g/t Au

Trench	Channel	Description	Grade
SPTR-01	Q	11923-11924	---2.1 m @ 24.5 ppm Ag, 0.069 % Cu, 0.143 % Pb, 0.013 % Zn, 103 ppm Sb, 0.004 g/t Au
SPTR-02	A	Channel along vein, not true width	33.7 m @ 119.3 ppm Ag, 0.495 % Cu, 0.450 % Pb, 0.009 % Zn, 1426 ppm Sb, 0.036 g/t Au
SPTR-02	C	Full Channel	18.6 m @ 31.6 ppm Ag, 0.118 % Cu, 0.127 % Pb, 0.034 % Zn, 304 ppm Sb, 0.010 g/t Au
SPTR-02	C	11608-11612	---4.6 m @ 88.7 ppm Ag, 0.326 % Cu, 0.236 % Pb, 0.152 % Zn, 909 ppm Sb, 0.027 g/t Au
SPTR-02	C	11617-11619	---4.4 m @ 40.8 ppm Ag, 0.157 % Cu, 0.282 % Pb, 0.095 % Zn, 325 ppm Sb, 0.011 g/t Au
SPTR-02	D	Full Channel	14.4 m @ 18.9 ppm Ag, 0.045 % Cu, 0.094 % Pb, 0.005 % Zn, 184 ppm Sb, 0.011 g/t Au
SPTR-02	E	Full Channel	9.4 m @ 26.0 ppm Ag, 0.065 % Cu, 0.152 % Pb, 0.006 % Zn, 221 ppm Sb, 0.014 g/t Au
SPTR-02	E	11652-11654	---2.5 m @ 88.3 ppm Ag, 0.222 % Cu, 0.541 % Pb, 0.213 % Zn, 776 ppm Sb, 0.034 g/t Au
SPTR-02	F	Full Channel	2.8 m @ 50.3 ppm Ag, 0.220 % Cu, 0.262 % Pb, 0.677 % Zn, 644 ppm Sb, 0.021 g/t Au
SPTR-02	G	Full Channel	16.2 m @ 50.4 ppm Ag, 0.156 % Cu, 0.449 % Pb, 0.086 % Zn, 508 ppm Sb, 0.014 g/t Au
SPTR-02	G	11628-11632	---5.7 m @ 84.4 ppm Ag, 0.263 % Cu, 1.050 % Pb, 0.222 % Zn, 798 ppm Sb, 0.021 g/t Au
SPTR-02	G	11628-11629	---2.4 m @ 159.5 ppm Ag, 0.518 % Cu, 1.892 % Pb, 0.443 % Zn, 1578 ppm Sb, 0.036 g/t Au
SPTR-03	B	Full Channel	6.1 m @ 38.3 ppm Ag, 0.148 % Cu, 0.478 % Pb, 0.263 % Zn, 477 ppm Sb, 0.012 g/t Au
SPTR-03	B	11544-11546	---3.2 m @ 71.1 ppm Ag, 0.272 % Cu, 0.908 % Pb, 0.497 % Zn, 888 ppm Sb, 0.019 g/t Au
SPTR-03	D	11552-11556	---4.0 m @ 126.7 ppm Ag, 0.573 % Cu, 1.128 % Pb, 0.052 % Zn, 1721 ppm Sb, 0.045 g/t Au
SPTR-03	D	Full Channel	11.1 m @ 25.6 ppm Ag, 0.103 % Cu, 0.188 % Pb, 0.021 % Zn, 354 ppm Sb, 0.012 g/t Au
SPTR-05	B	Full Channel	4.2 m @ 31.5 ppm Ag, 0.077 % Cu, 0.058 % Pb, 0.023 % Zn, 243 ppm Sb, 0.003 g/t Au
SPTR-05	J	Full Channel	6.4 m @ 19.6 ppm Ag, 0.078 % Cu, 0.066 % Pb, 0.146 % Zn, 301 ppm Sb, 0.004 g/t Au
SPTR-05	M	Full Channel	7.6 m @ 29.6 ppm Ag, 0.112 % Cu, 0.073 % Pb, 0.113 % Zn, 323 ppm Sb, 0.008 g/t Au
SPTR-06	B	11987-11988	---3.0 m @ 40.4 ppm Ag, 0.005 % Cu, 3.154 % Pb, 0.009 % Zn, 33 ppm Sb, 0.007 g/t Au
SPTR-06	D	12853-12857	---4.0 m @ 41.0 ppm Ag, 0.124 % Cu, 0.659 % Pb, 0.478 % Zn, 229 ppm Sb, 0.015 g/t Au
SPTR-10	A	12934-12935	---2.3 m @ 16.3 ppm Ag, 0.088 % Cu, 0.004 % Pb, 0.026 % Zn, 71 ppm Sb, 0.003 g/t Au
SPTR-10	B	Full Channel	22.0 m @ 30.1 ppm Ag, 0.148 % Cu, 0.379 % Pb, 0.017 % Zn, 168 ppm Sb, 0.018 g/t Au
SPTR-10	B	12941-12944	---3.8 m @ 157.8 ppm Ag, 0.783 % Cu, 1.922 % Pb, 0.096 % Zn, 867 ppm Sb, 0.090 g/t Au
SPTR-14	A	Full Channel	10.7 m @ 21.1 ppm Ag, 0.142 % Cu, 0.003 % Pb, 0.025 % Zn, 308 ppm Sb, 0.003 g/t Au
SPTR-15	E	Full Channel	1.9 m @ 20.0 ppm Ag, 0.050 % Cu, 0.001 % Pb, 0.007 % Zn, 61 ppm Sb, 0.004 g/t Au
SPTR-15	Q	Full Channel	2.8 m @ 22.5 ppm Ag, 0.053 % Cu, 0.070 % Pb, 0.157 % Zn, 109 ppm Sb, 0.009 g/t Au
SPTR-15	U	Full Channel	6.4 m @ 68.5 ppm Ag, 0.218 % Cu, 0.301 % Pb, 0.113 % Zn, 535 ppm Sb, 0.013 g/t Au
SPTR-16	H	Full Channel	5.4 m @ 96.6 ppm Ag, 0.520 % Cu, 0.132 % Pb, 0.097 % Zn, 1150 ppm Sb, 0.020 g/t Au

Trench	Channel	Description	Grade
SPTR-16	R	Full Channel	3.0 m @ 15.6 ppm Ag, 0.038 % Cu, 0.167 % Pb, 0.011 % Zn, 55 ppm Sb, 0.003 g/t Au
SPTR-17	A	Full Channel	3.0 m @ 76.7 ppm Ag, 0.257 % Cu, 0.459 % Pb, 0.124 % Zn, 755 ppm Sb, 0.009 g/t Au
SPTR-18	A	11323-11326	--3.0 m @ 29.4 ppm Ag, 0.130 % Cu, 0.042 % Pb, 0.024 % Zn, 253 ppm Sb, 0.014 g/t Au
SPTR-18	B	11335-11341	--7.1 m @ 20.7 ppm Ag, 0.097 % Cu, 0.037 % Pb, 0.019 % Zn, 229 ppm Sb, 0.010 g/t Au
SPTR-18	D	Full Channel	7.1 m @ 28.4 ppm Ag, 0.149 % Cu, 0.039 % Pb, 0.013 % Zn, 474 ppm Sb, 0.017 g/t Au

## 9.5 GROUND GEOPHYSICS

### 9.5.1 IP/Resistivity Survey Methodology

The IP/resistivity lines was undertaken on a grid of cut lines across the Sail Pond property (Figure 14). The survey was planned by Intelligent Exploration (IE)(under the supervision of Dr. Chris Hale, P.Geo) and undertaken by Abitibi Geophysics from August to October 2018; Dr. Hale also monitored the survey and was responsible for quality assurance and quality control of the survey and results presented herein.

The instrumentation utilized for the survey included an IRIS Instruments (IRIS) ELREC-PRO receiver and a GDD Tx-II 3600W transmitter; stainless steel rods were used for both current and potential electrodes. The lines were surveyed east to west with current electrodes trailing the receiver electrodes. The “infinity” current electrodes were located in an area south of the grid. Potential electrodes were connected using 16-gauge insulated stainless steel wire and this wire was also used to connect the current electrodes to the transmitter.

The surveys employed a pole-dipole array to provide the best depth penetration and lateral resolution. Line space varied from 200m near trenches to 400m in areas between trenches and showings. The survey had a dipole spacing (‘a’) of 50m and 8 receiver electrodes (n = 1 to 8). The survey was designed to be a reconnaissance survey to cover up to 12km of strike length with a penetration depth of ~200m at N=8. The transmitting pulse rate was 2 seconds with alternating polarity separated by a 2 second off-time; chargeability data were collected during the off-time periods. The receiver recorded 8 dipoles at each station initially in arithmetic time-domain mode (Lines 4000N to 5000N). For the remaining lines the receiver recorded in Cole-Cole time domain mode. This mode provided the maximum number of samples early in each decay cycle for calculation of the initial chargeability  $M_{IP}$ , in addition to the  $M_X$  bulk chargeability. Multiple readings were averaged at each station until the standard deviation of the average was less than a specified tolerance. The total survey coverage was 104.6 km (Figure 14).

The IP/Resistivity data were downloaded daily from the Elrec Pro receiver to a portable computer using Prosys II software from IRIS by Abitibi Geophysics and email to IE for QA/QC review and data processing. Data were re-processed by IE using the Geosoft Oasis Montage IP module, which automatically calculates apparent resistivities in ohm-m from the current, primary voltage and electrode locations for each measurement and converts the twenty normalized secondary voltages (in mV/V) into a single array channel. A separate channel was created to store the average IP value ( $M_X$  Chargeability) of the 12 through 15 time slices (560 to 1020 milliSec). Stacked pseudosections and apparent resistivity and chargeability were prepared by IE for correlation from line-to-line using N=2 (depth of imaging ~50m) values contoured on level plans. The sections and plans thus present a three-dimensional representation of the distribution of measured chargeability and resistivity at Sail Pond.

### 9.5.2 Geophysical Results: IP/Resistivity Surveys

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The results of the IP/Resistivity surveys are presented in Figures 15 and 16 as contoured chargeability and apparent resistivity plan maps for the second dipole (N=2) (~100m from the current source point); pseudosections and stacked pseudosections are presented in Hale and Gilliatt (2018), which is included in Appendix 4. The N=2 dipole is chosen as this is roughly a window of chargeability and resistivity at ~50m below surface and provides a strong signal to noise ratio, minimal noise degradation of the signal, and removes the effects of surface features on signal intensity and clarity. Gridding on Figures 15 and 16 has been undertaken to provide a continuous interpolation of chargeability across gaps in the survey where data were not available due to open water. Chargeability values presented use the residual voltages between 560 and 1020 milliseconds after current has been interrupted, as this timing is generally used to eliminate noise early in the decay time, but still maintain high signal to noise ratio. This timing also allows anomalies to be compared to other IP in the literature.

### 9.5.3 Geophysical Results: Chargeability Anomalies

The majority of chargeability anomalies at Sail Pond are symmetrical, north-northeast trending, and reflect the stratigraphy and structure of the White Arm Window anticline (Figure 15). The chargeability anomalies in the map can be divided into four groups with targets for further testing within each group (Figures 15 and 17): 1) anomalous chargeability in the south centre of the grid from L4000N to L5400N; 2) chargeability along a contact on the western boundary of almost the entire grid; 3) a corresponding contact zone to (2) but near the east limb of the anticline; and 4) a broad anomaly in the centre of the grid between L8800N and L12000N.

Anomaly area (1) is interpreted to reflect a conductivity band that parallels geology (i.e., is potentially a formational conductor) but there are areas with higher intensities that require follow up ground work to test their significance (e.g., Line 4400N targets on Figure 17).

Anomaly area (2) extends along much of the western edge of the property and parallels stratigraphy and structure and is potentially a formational conductor (i.e., reflects a potentially chargeable stratigraphic unit). However, there are locations within this anomaly that require further follow up testing, such as (all targets are on Figure 17): 1) the chargeability peak ~100m west (down dip) of the Sail Pond north trench showing (follow-up targets 11 to 20); 2) peaks in chargeability Line 14600N and Line 15000N that may reflect a down-dip extension of the mineralization recognized in trenches; 3) peaks in chargeability between Line 11600N and Line 12400N that are on strike with the main Sail Pond showings, including a target (7) on Line 11600N and target (9) on Line 12400N; 4) a chargeability high on Line 9200N (target 5) that is along strike and on the same structure as the Sail Pond main showings; and 4) targets 3 and 4 on Line 6000N and Line 6800N that show chargeability highs associated with resistivity lows on the flank of a resistivity high.

Anomaly area (3) contains targets 13-19 and are chosen because of their linear distribution and are resistivity lows on the edge of resistivity highs (Figure 17).

Anomaly area (4) is a broad broad chargeability anomaly that follows Line 11600N for approximately 600m in the centre of the grid, near the axial plane of the White Arm Window anticline (i.e., target 8). A strike-extension of the anomaly extends southward to Line 9600N where a local chargeability maximum (target 6) occurs on the southeastern flank of a resistivity high (Figure 17).

### 9.5.4 Geophysical Results: Resistivity Anomalies

The resistivity of the Sail Pond area (Figure 16) illustrates that there is a resistivity high that corresponds to the South zone showings at the western part of the grid reflective of the quartz alteration associated with mineralization. There are also resistivity highs in the central part of the grid between Lines 4800N and 10000N.

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South of Line 8800N the resistivity anomaly in this area is associated with a chargeability low but between Line 8800N and Line 10000N it corresponds to a zone of chargeability (Figure 16). A resistivity high located between Line 9200N and Line 10000N at the eastern edge of the grid is accompanied by a modest increase in chargeability (Figure 16). Similarly, the northward extension of this latter resistivity high from Line 11200N to Line 12000N also correlates with modestly elevated chargeability. In these areas the coincidence of chargeability increases with resistivity is more typical of formational responses (i.e., barren rocks) rather than from sulphide mineralization.

In the northern part of the property the asymmetrical pattern of resistivity highs outside the chargeability maxima also correspond to local strike-parallel resistivity lows on both limbs of the anticline (Figure 16). Such patterns are likely partly reflective of clastic sedimentary rocks within the carbonate sequence. The lack of a flanking resistivity high for most of this area suggests potential local quartz alteration (Figure 16).

### **9.5.5 Ground Gravity Survey Methodology**

The gravity survey was undertaken on a grid of cut lines across the Sail Pond property (Figure 18). The survey was planned by Intelligent Exploration (IE) (under the supervision of Dr. Chris Hale, P. Geo) and undertaken by Rob McKeown of MES Geophysics Inc. (St. John's) in March 2019; Dr. Hale also monitored the survey and was responsible for quality assurance and quality control of the survey and results presented herein.

The survey used a Scintrex CG-5 gravimeter to conduct the survey. The measurement distances were made at 50m intervals along three lines crossing significant IP anomalies in the South and North Zones and an anomaly in the centre of the property (labeled South, Central and North Zones Figure 19). A Trimble differential GPS system was used to measure the elevations at each station. A probe was used to measure the snow depth at each station and in some cases, this was >2 metres.

On completion of the surveys, MES used Geosoft's OASIS MONTAJ® Gravity Processing Module to process the data and correct for elevation differences from station to station. A density value of 2.67 g/cm<sup>3</sup> was used to calculate the Bouguer Correction. This value is appropriate, lying between typical value for unmineralized dolostone (2.6 g/cm<sup>3</sup>) and the average density (2.708 g/cm<sup>3</sup>) measured from Sail Pond samples. The Bouguer corrected data were gridded separately for each of the three sets of lines after applying a 1st order polynomial to remove a west to east regional gradient (Figure 19).

### **9.5.6 Geophysical Survey Results**

A gravity high is observed on all the lines surveyed but only on the southernmost target is it near the chargeability (n=2) maximum (Figure 19). The amplitude of the residual gravity anomaly ranges from 0.25 mgal on the South Zone target to 0.35 mgal on the Central Zone target and 0.5 mgal on the North Zone target. All of these are subtle anomalies and they appear to be associated with the axial plane of the fold structure. Anomalies of this size are typical of formational variations rather than tonnages of economic mineralization.



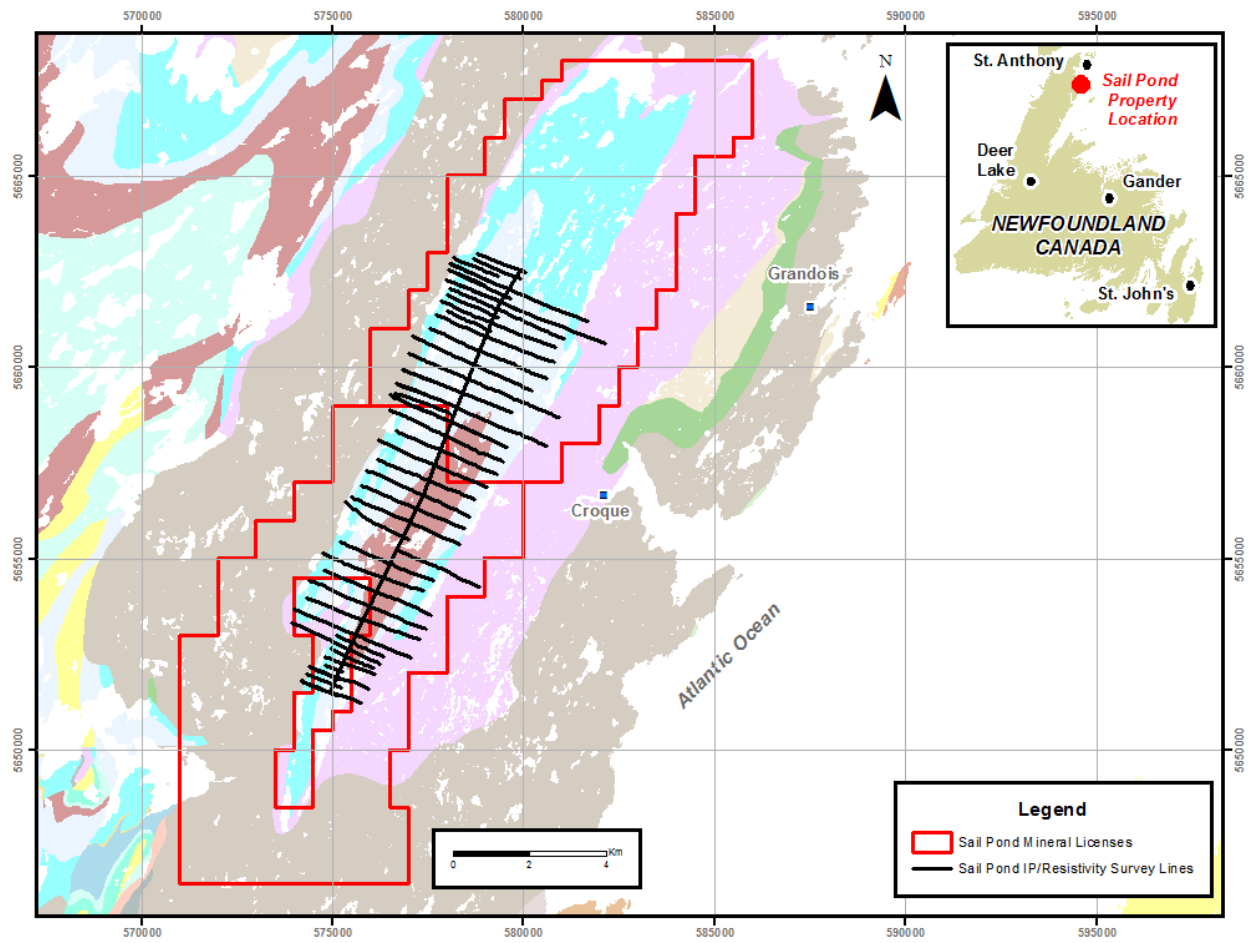


Figure 14. Grid location and lines for the Sail Pond IP/resistivity survey (from Hale and Gilliatt, 2018).



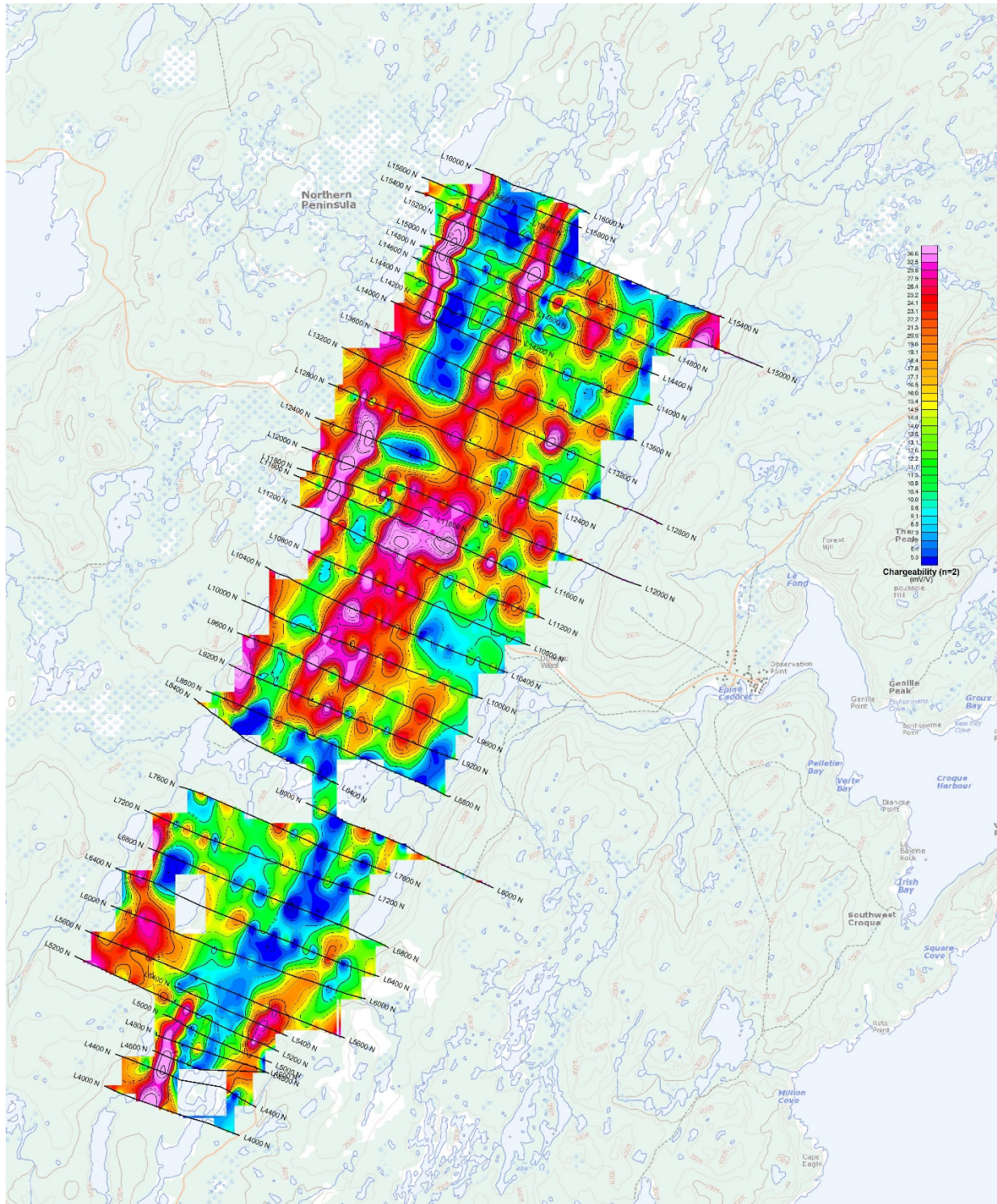


Figure 15. Second dipole (N=2) chargeability plan map that corresponds to a depth of approximately 50m (from Hale and Gilliatt, 2018). Grid locations as in Figure 14.



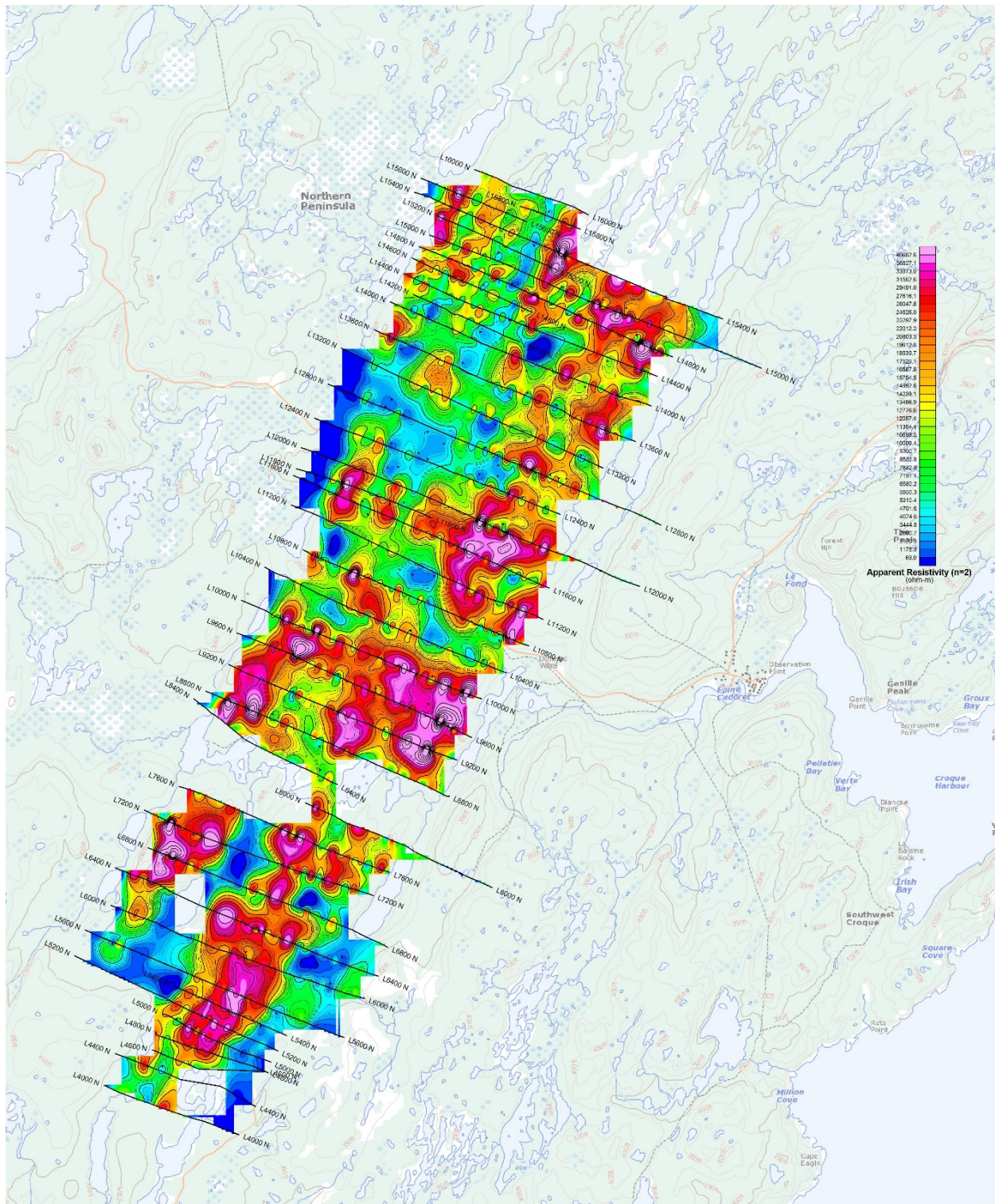


Figure 16. Second dipole (N=2) apparent resistivity plan map that corresponds to a depth of approximately 50m (from Hale and Gilliatt, 2018). Grid locations as in Figure 14.





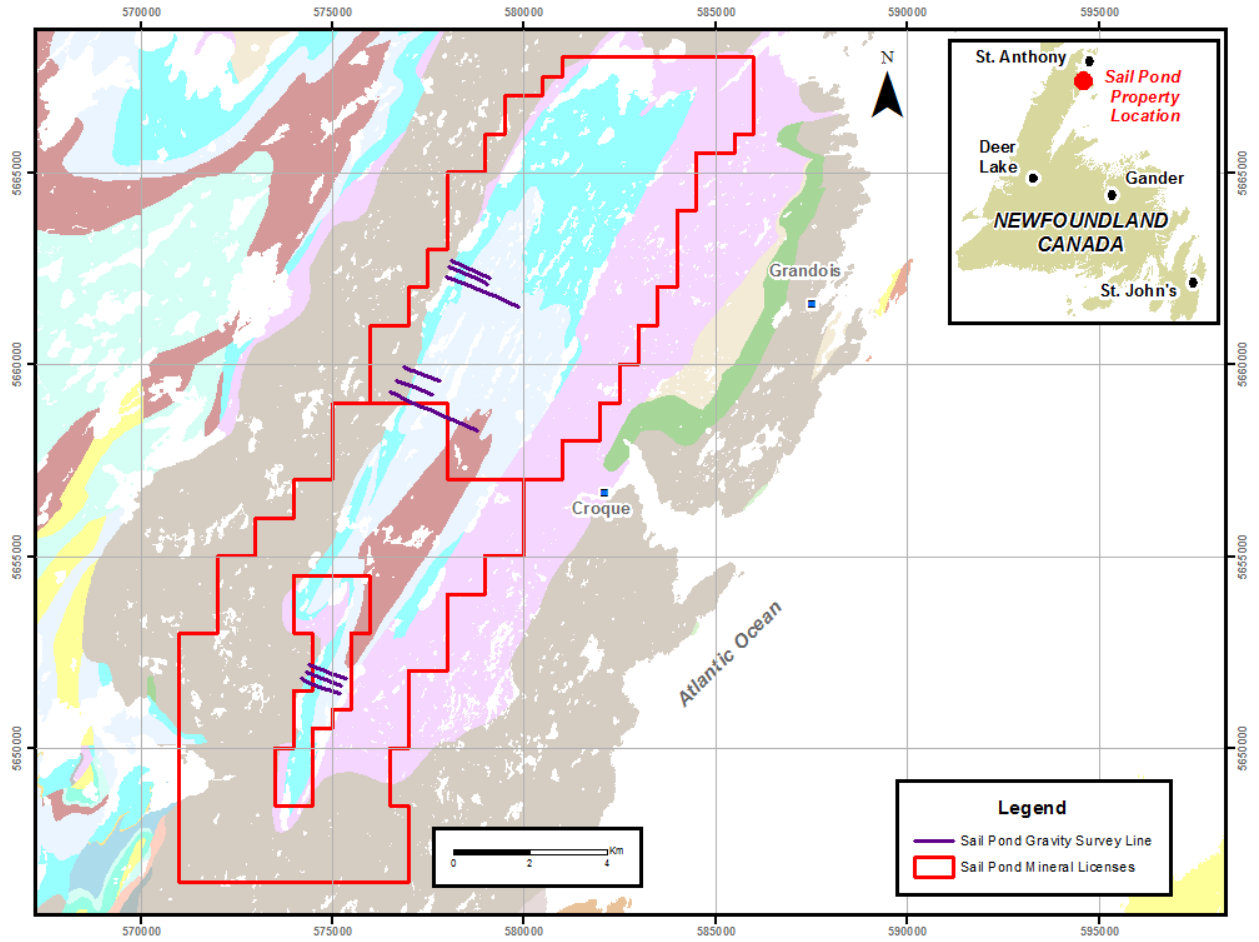


Figure 18. Grid location and lines for the Sail Pond gravity survey (from Hale and Gilliatt, 2019).

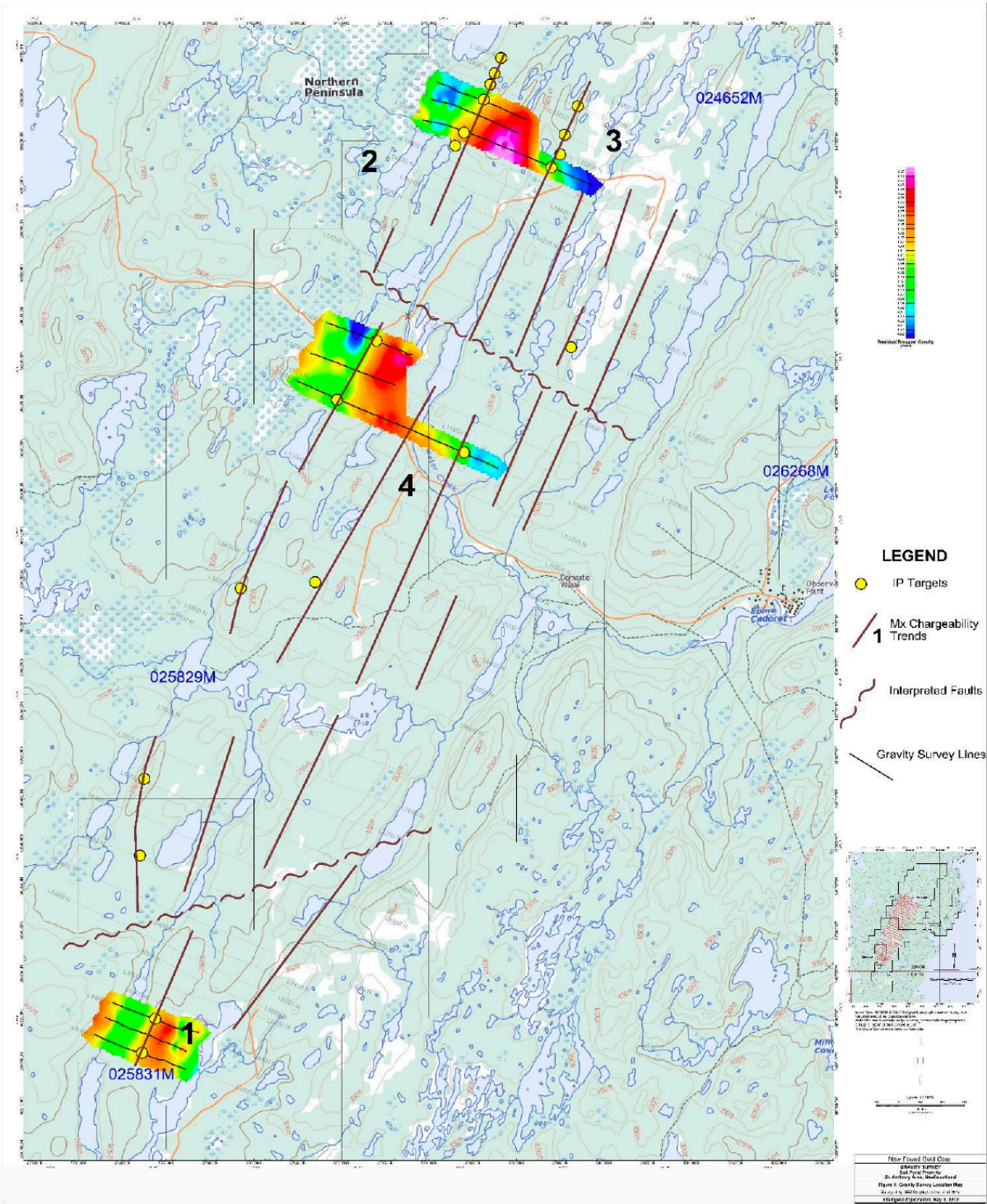


Figure 19. Sail Pond gravity in relation to the Sail Pond IP results and lines for the Sail Pond survey (from Hale and Gilliatt, 2019).



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## 10.0 DRILLING

No diamond drilling has been completed on the Sail Pond project.

## 11.0 SAMPLING METHOD AND APPROACH

### 11.1 SAMPLE COLLECTION, HANDLING AND ANALYTICAL PROCEDURES

Rock grab samples were collected from outcrop, sub-crop or boulders (float), as well as trenches; mostly where mineralization was observed. For each rock grab sample, the pertinent information including the UTM location was recorded on an “Altius Rock Sample Sheet” containing a unique sample ID number. The rock sample was placed in a plastic bag along with the sample tag, and the sample tag number was written down twice using a permanent marker on the outside of the bag. The bag was then sealed, transported back to the field office, and safely stored to await shipping for analysis. All sample data recorded in the field was manually typed into a master rock sample spreadsheet.

All rock grab samples were forwarded to Eastern Analytical of Springdale, NL. QA-QC measures included duplicate samples, blanks and standards that were regularly inserted into the sample sequence. A suitable material for blanks was found in a high purity marble deposit on the property (NMINO: 002M/04/Mrb006). Standards used were certified reference materials, OREAS 164, 134a, 600, 601, 602, 603, 604, 605 (see appendix for CRM certificates). For multi-element trace analysis, the rock powder from the samples was dissolved in four acids and analyzed by ICP-OES. For samples exceeding the limits of the trace analysis, an ore grade analysis was completed. Standards used for the rock samples included silver values up to 201ppm (OREAS 164, 134a). Samples reporting more than 50ppm silver were re-assayed with a modified ICP-OES method with a four-acid digestion using a suite of five standards ranging from 25 to 965ppm Ag (OREAS 600-605). Gold values were determined by 30 g fire assay and AA finish. Appendix 3 contains the sample spreadsheet compiled with the assay values, as well as the original assay certificates.

Soil samples were taken from the B-horizon on east-west grid lines as outlined in Section 9.2 and subsequently prepared and analyzed using pXRF following protocols outlined by Piercey (2017) and Babiak (2018) and summarized below. Soil samples were dried and sieved for ~60s to provide a <125 µm aliquot for pXRF analysis. Approximately 3g of sieved soil was placed in an XRF sample cup, packed tightly, covered with a 6µm Mylar film, labelled, and subsequently analyzed by pXRF. Samples were analyzed using a Niton XL3t XRF analyzer equipped with a 25mm window and Ag anode tub (maximum 2W power), with a maximum instrument voltage of 50kV, and utilizing Thermo Scientific NDT software for data collection. The samples were analyzed in soil mode for 180s (e.g., Hall et al., 2014). The samples were calibrated daily with instrument precision and accuracy monitored using matrix-matched standards (Till 2 – CANMET), and contamination monitored using a blank (CDN-BL-10 – Canadian Resource Laboratories Ltd). A typical run involved Till-2, CDN-BL-10, 25 unknown samples, and a repeat of analysis of Till2 and CDN-BL-10. Further details on the QA/QC protocol of the soil program is outlined in Section 11.2.

A subset of samples analyzed by pXRF were also analyzed at Eastern Analytical for testing of the pXRF results by more conventional, laboratory-based methods. These samples were analyzed using a 30g fire assay pre-preparation and aqua regia digestion with a ICP-MS and atomic absorption spectrometric (AAS) finish.

### 11.2 QUALITY CONTROL OF DATA

A quality assurance and quality control program was implemented to monitor precision, accuracy, and potential contamination using certified reference materials and blanks. Reference materials were matrix matched to have similar grades and compositions to the materials analyzed from the Sail Pond Project,

including a Zn-Pb-Ag-(Sb) reference material OREAS 134 and the Cu reference material OREAS 164 (both from Mt. Isa, Australia); both samples were prepared by Ore Research and Exploration Pty Ltd. (Australia). The blank was a local barren limestone collected from the Roddickton area. Reference materials, blanks, and duplicates were inserted every 20-25 samples with the Zn-Pb-Ag-(Sb) and Cu reference material inserted alternatively every 20-25 samples.

Precision for the various elements in the reference materials was calculated using percent relative standard deviation (%RSD):

$$\%RSD = 100\% \frac{s}{\mu} \quad (1);$$

where  $s$  = standard deviation and  $\mu$  = mean (average) values of the repeat measurements of a given element in the reference material.

Accuracy for the various elements in the reference materials was calculated using the percent relative difference (%RD):

$$\%RD = 100\% \frac{\mu - \text{certified value}}{\text{certified value}} \quad (2);$$

Where  $\mu$  is the mean value, as outlined in (1), and certified value is the certified value for a given element in a given reference material.

Reference materials were monitored during the program during each batch using Shewart control charts to see if values analyzed were within two standard deviations of certified values for a given analyte (Figures 20-21). If a value for a given element in a reference material fell outside of the certified value envelope two times in a row this would result have triggered re-analysis of the previous batch of samples; this did not occur during the analytical program. In OREAS 134a, %RSD values for Zn, Pb, and Ag are <6.5% and are illustrative of excellent precision and %RD values that are  $\pm 4\%$  illustrating excellent accuracy (Table 9) (e.g., Piercey, 2014). Precision and accuracy for Sb is slightly less precise and accurate; however, this is expected given the trace concentration of this element and potential inhomogeneous distribution of this element in the reference material (Table 9). Precision and accuracy for Cu in the OREAS 164 sample is outstanding with %RD = 1.4% and %RD = +0.8% (Table 9).

**Table 9.** Results from reference material analysis during the analytical program.

OREAS 134a	Ag (ppm)	Cu (ppm)	Pb (ppm)	Sb (ppm)	Zn (ppm)
Certified Value	201	1291	127900	115	172700
$\pm 2\sigma$	14	90	15320	30	11060
n	19	21	18	21	19
$\mu$	198.8	1250.2	121884.2	100.5	173736.8
S	5.5	76.5	4256.5	18.4	4240.6
%RSD	2.74	6.12	3.49	18.31	2.44
%RD	-1.09	-3.16	-4.70	-12.59	0.60

OREAS 164	Ag (ppm)	Cu (ppm)	Pb (ppm)	Sb (ppm)	Zn (ppm)
Certified Value	2.94	22500	214	-	45
$\pm 2\sigma$	0.32	1600	28	-	14
n	21	21	21	21	21
$\mu$	2.6	22676.2	193.1	10.1	85.2
S	0.2	322.3	9.8	2.7	34.2
%RSD	6.9	1.4	5.1	26.7	40.1
%RD	-10.1	0.8	-9.8	-	89.4

Notes: %RSD =  $100\% * s / \mu$ . %RD =  $100\% * (\mu - \text{certified value}) / (\text{certified value})$ .

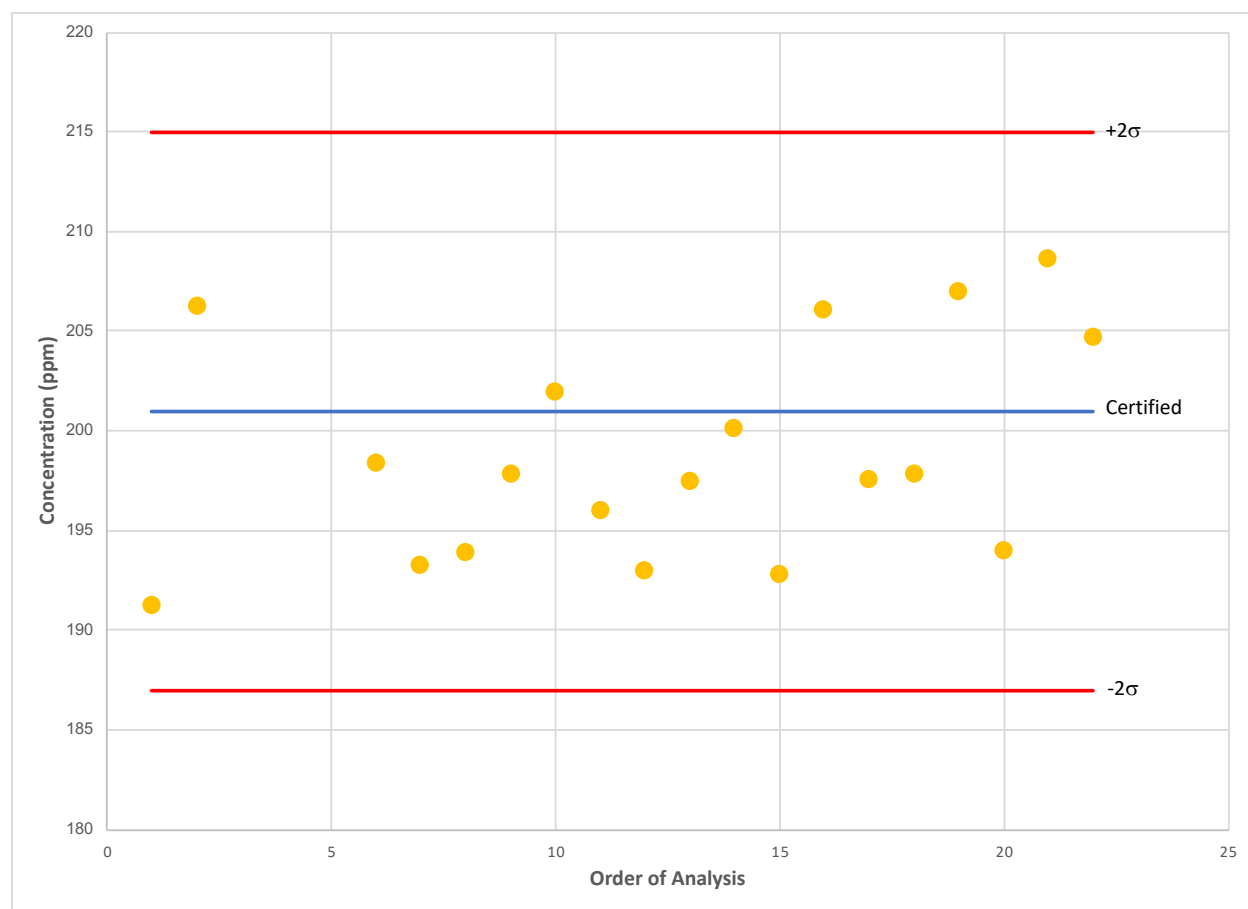
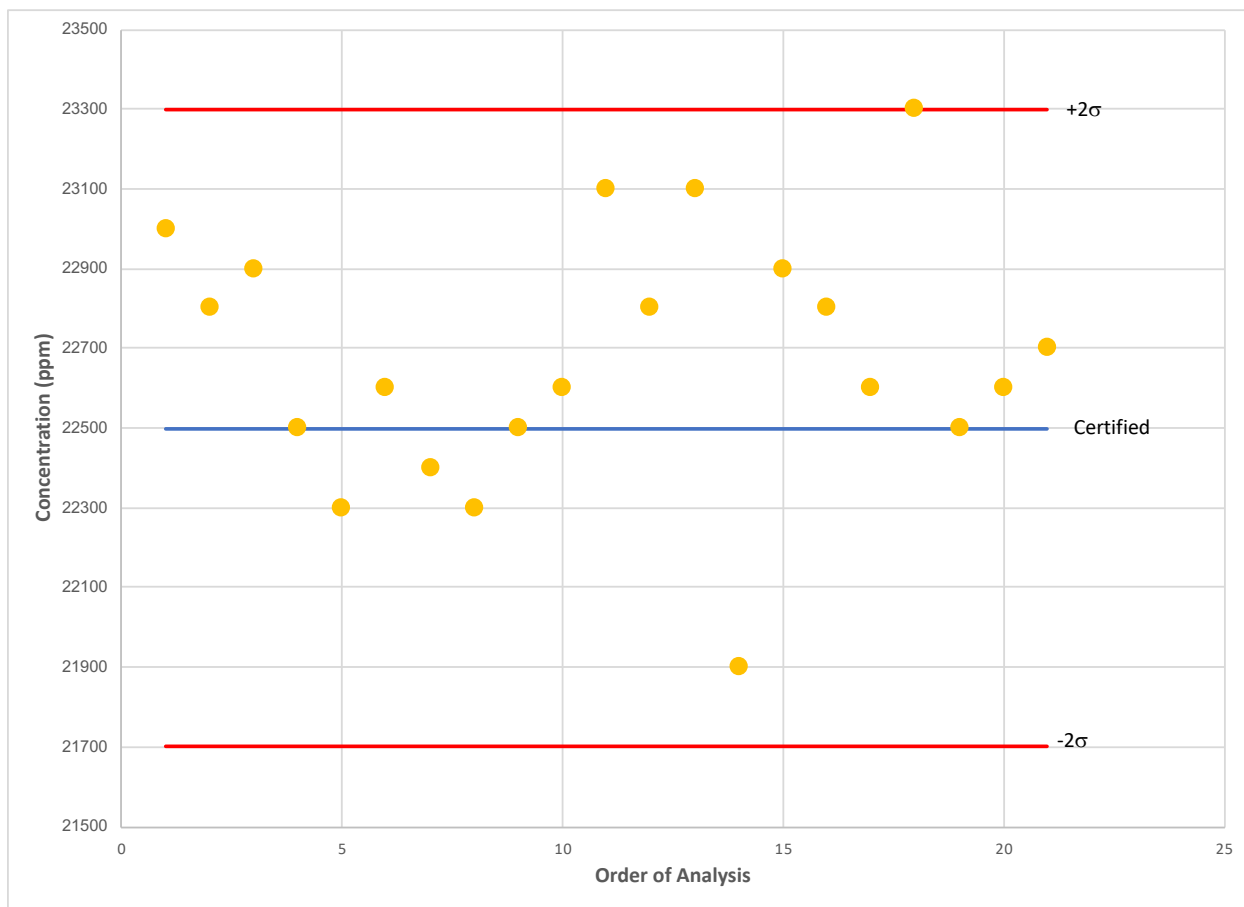


Figure 20. Example Shewhart control chart for Ag in reference material OREAS 134a. Note that all analyses of the sample lie within 2 standard deviations of the certified value suggesting that the results from the laboratory for Ag are accurate.



**Figure 21.** Example Shewart control chart for Cu in reference material OREAS 164. Note that all analyses of the sample lie within 2 standard deviations of the certified value suggesting that the results from the laboratory for Cu are accurate.

Blank values are outlined in Table 10 and were monitored during the course of the trenching program. The blank values have low values for all elements over the course of the program and within natural variability expected in such samples from the Humber Zone. If the blank exceeded Ag>0.5ppm, Sb>5ppm, or Cu, Zn, or Pb >100ppm this would trigger a re-analysis of the previous batch of samples; this did not occur during the trenching program.

**Table 10.** Values for the blank over the course of the analytical program.

Blank	Ag (ppm)	Cu (ppm)	Pb (ppm)	Sb (ppm)	Zn (ppm)
$\mu$	0.13	3.08	5.06	1.73	3.44
$s$	0.09	2.03	8.70	0.64	2.84
%RSD	1.38	1.31	3.44	0.74	1.65
Min	0.10	2.5	1.0	1.5	2.5
Max	0.50	11.0	44.0	4.0	15.0
n	24	24	24	24	24



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The results above illustrate that during the analytical program the laboratory performed with sufficient precision and accuracy and there was no contamination (i.e., the results meet industry standards).

The soil program was monitored using Till-2 as a matrix-matched reference material and a blank (CDN-BL-10) to evaluate contamination following the methods outlined in Piercey (2017) and Babiak (2018) and outlined in brief below. Both Till-2 and CDN-BL-10 were inserted every 25 samples and monitored using Shewart control charts with a 20% variance from the accepted values for Cu, Zn, and Pb being accepted as fit for purpose. During the course of the study if the reference material or blank failed this tolerance level twice in a row all preceding unknown samples were to be re-analyzed; neither Till-2 or CDN-BL-10 failed twice in a row during the soil program. Over the course of the analytical program the Cu, Pb, and Zn values yielded %RSD values of 7.69%, 11.99%, and 6.03%, respectively, and %RD values of 5.70%, 14.59%, and 6.14%, respectively. As, Sb, and Ag were much higher and values by the pXRF study illustrate the (anomalous) presence of these elements, but absolute values were not trustworthy via pXRF.

Inter-lab testing of the pXRF results from Eastern Analytical illustrate that at values above the detection limit of the pXRF, there is a strong correlation between results Zn, Pb, and Cu, and to a lesser extent As and Sb (i.e., As and Sb are informational by pXRF)(Babiak, 2018). The inter-lab correlations of conventional and pXRF results illustrate that the pXRF was a fit-for-purpose method for soil analysis during the exploration on the Sail Pond property.

## 12.0 DATA VERIFICATION

The author visited the Sail Pond Property on May 28<sup>th</sup> and 29<sup>th</sup>, 2018, and supervised a verification sampling program from the property with staff from Altius Resources Inc. (Roderick Smith, Robert Patey, and Lloyd King). Samples were collected using a diamond saw (Plate 3), with verification samples collected immediately adjacent to the original sample (Plate 3). Samples were placed in plastic bags and secured with zip ties to prevent any possible tampering (Plate 3). All samples, as well as a blank and two quality control standards, were placed in zip tied rice bags (Plate 3) and submitted to the laboratory (Eastern Analytical Laboratories) by the author. The approach taken by the author is identical to the approach taken by Altius Resources Inc. during the exploration program for the Sail Pond Property.

The verification samples collected were representative of the various abundances of mineralization present on the property. The results and comparisons to original analyses are shown in in Table 11. The results replicate those found in the original samples from the property and the variance shown between original and verification samples are consistent with the natural variance expected for these metals in vein type mineralization (e.g., Abzalov, 2008). Quality control data for the samples from the verification report are shown in Table 12 and illustrate that results from the lab are within expected ranges for matrix matched and grade matched reference materials and the blank (a barren limestone from the area) has minimal values for the metals of interest suggesting contamination was insignificant.

The rock and soil databases were maintained by Altius Resources Inc. staff and the data was verified by the author. The assay database was checked by the author to ensure that results in the database match those from original laboratory certificates, to ensure there were no data overlaps, typos, duplication of data, or gaps in data. Furthermore, observations by the author during the verification visit and during evaluation of the data on the nature of sampling, sample procurement, choice of analytical methods, and quality control and quality assurance methods presented in this report are all considered as meeting to exceeding industry standards.



**Plate 3. Photographs of verification sampling at Sail Pond property. A) Staff from Altius Resources Inc. (Robert Patey (L) and Lloyd King(R)) cutting a duplicate channel sample during the verification sampling program. Before (B) and after (C) duplicate channel sample during the verification sampling program. D) Samples from the verification program, as well as standards and blank, in rice bag with zip tie prior to delivery to Eastern Analytical for analysis.**

**Table 11. Results for key base and precious metals for verification sampling from the Sail Pond Property.**

Verification Sample	Cu (ppm)	Pb (ppm)	Zn (ppm)	Sb (ppm)	Ag (ppm)	Original Sample	Cu (ppm)	Pb (ppm)	Zn (ppm)	Sb (ppm)	Ag (ppm)
R08772	2997	4100	7700	900	88.2	11789	2849	3400	9300	1200	85
R08773	154	391	1094	38	4.5	11798	153	698	123	30	4.9
R08774	8090	8500	8000	3100	331.6	11632	877	5500	742	249	34.2
R08775	11	100	27	5	0.4	11673	5	71	18	<3	<0.2
R08776	3202	12500	8200	1000	98.2	11847	745	8400	5100	180	26.9
R08777	662	27	119	114	17	12997	390	11	60	81	10.8
R08778	3098	35600	204	335	193.9	12942	26600	68000	2700	3200	498.5
R08779	3880	1794	609	1100	103.6	11316	2759	1041	353	900	47.4
R08780	4500	1541	728	1600	123	14881	25300	5800	4400	5600	467.2

**Table 12.** Quality control data for Eastern Analytical for verification samples.

Sample	Cu (ppm)	Pb (ppm)	Zn (ppm)	Sb (ppm)	Ag (ppm)
R08782 (Blank)	<5	6	7	<3	0.30
R08783 (OREAS 134A standard)	1270	128000	168000	118	204.20
Certified values	1281	127865	172671	115	201.00
$\pm 2\sigma$	90	15326	11052	30	14.00
R08784 (OREAS 164 standard)	22900	248	88	12	3.00
Certified values	22500	214	45	-	2.94
$\pm 2\sigma$	1600	28	14	-	0.32

**Note:** All results for base and precious metals lie within the expected ranges for the certified values.

### 13.0 ADJACENT PROPERTIES

There are no adjacent properties as defined by NI 43-101.

### 14.0 MINERAL PROCESSING AND METALLURGICAL TESTING

No mineral processing or metallurgical studies have been carried out to date by Altius on material from the Sail Pond Project and no historic studies are known to the author on metallic minerals.

### 15.0 MINERAL RESOURCE AND MINERAL RESERVE ESTIMATES

No mineral resource and mineral reserve estimates have been produced to date by Altius on the Sail Pond Project and no historic estimates on metallic minerals are known to the author.

### 16.0 OTHER RELEVANT DATA AND INFORMATION

To the authors knowledge no environmental baseline studies have been completed in the Sail Pond Project area. However, the author is not aware of any environmental liabilities or associated issues.

### 17.0 INTERPRETATIONS AND CONCLUSIONS

The Sail Pond property represents structurally controlled, carbonate hosted Zn-Pb-Ag mineralization that is hosted within the White Arm Window Anticline of the Humber Zone on the Great Northern Peninsula, Newfoundland and Labrador. Mineralization occurs within two northeast trending, east-southeast dipping zones: the South Zone and North Zone. The surface expression of the South Zone measures at least 2 km in strike, whereas the North Zone measures at least 7 km in strike. The surface widths of both zones are variable, but are upwards of 200 m. The zones are restricted to the western portion of the White Arm Window Anticline where mineralization is interpreted to have formed in the hanging wall of a regional thrust fault system.

The South and North Zones have thick, massive sequences of pervasively altered (*i.e.* quartz  $\pm$  calcite  $\pm$  sericite) dolostone (or dolomitized limestone) of the St. George Group (possibly Catoche and/or Aguathuna formations), which is the primary rheological ( $\pm$  chemical) trap rock that hosts mineralization. The dolostones show brittle deformation and commonly folded and bounded shear zones and/or thrust faults.

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Mineralization is hosted in conjugate quartz veins and contain Ag-Cu-Pb-Zn-Sb ( $\pm$  Au). Quartz veins can constitute upwards of 30-40 volume percent of the exposed rock, with individual quartz veins generally less than 10 cm in thickness but up to 2 m, locally. Mineralization has been observed in two sets of quartz veins. Similar styles of mineralization are present throughout the property, albeit hosted in narrower units (0.5 to 5 m widths) of dolostone, and there has been little work conducted thus far to evaluate these areas.

Sulphide mineralization within the two zones is comprised mostly of chalcocite, tetrahedrite, tennantite, sphalerite, boulangerite, galena and locally trace to minor amounts of pyrite, bornite, covellite, mimetite, sulfosalts, fluorite and apatite. Silver is almost exclusively associated with the tetrahedrite. Mineralization is generally within, or spatially associated with quartz veins; as open-space infilling (clots), disseminations, and as vein-parallel massive bands or veinlets. Mineralization also occurs within the matrix of dolostone breccias, possibly as a solution breccia matrix replacement.

During 2017, an exploration program of mapping, prospecting, B-horizon soil sampling, trenching, channel sampling, vein structure analysis and mineral characterization. To date, the sample collection, excluding samples for QA-QC purposes, includes 256 rock grab samples, 1131 channel samples and 4021 soil samples. A total of 17 trenches have been excavated within the main mineralization zones. All soil samples have been analyzed using Altius' portable XRF whereby the values for Cu, Pb and Zn were determined. During the summer of 2018, a 130 line km grid, centered on the South and North Zones, with East-West orientated lines was cut and surveyed by ground IP and Resistivity geophysics. This survey has generated 20 targets for follow up with some ready for potential drill testing.

## 18.0 RECOMMENDATIONS

The Sail Pond area represents a structural-hosted Zn-Pb-Ag vein system similar to other base metal vein environments globally (e.g., Coeur d'Alene, Keno Hill). The surface expression of these veins illustrates small conjugate veins, but it is possible that at depth these veins coalesce into a larger master vein system, potentially proximal to the thrust faults on the western part of the property. The coupled concept above, and the geological and geophysical results presented within suggests that there should be a two stage follow up program.

The Phase 1 program will be focus on more detailed soil sampling, geological mapping and prospecting, and a subsequent trenching program. The primary focus of the soil program will be on extending and tightening coverage around the two known zones of mineralization. A secondary focus will be on extending and tightening coverage around peripheral anomalies. It is estimated that this will require ~1700 B-horizon soil samples collected on E-W lines with a 25m spacing. Samples will be prepared using conventional drying and sieving in the field, with subsequent analytical work undertaken at Eastern Analytical Laboratories, Springdale, Newfoundland using a 4-acid digestion and analysis using an ICP-ES finish. It is estimated that it will require approximately 17 days of fieldwork using two teams of two people averaging 100 samples per day. The proposed lines for detailed sampling are provided in Figure 22. During soil sampling there will also be expanded mapping and detailed prospecting. In addition, trenching will be undertaken to expand and build on results from the 2017 trenching program to extend zones and fill in areas of known mineralization; soil anomalies and showings generated during Phase 1 will also be trenched and tested. It is estimated that the trenching program will require two weeks of excavator time followed by mapping, channel sampling, and remediation. The estimated costs of the Phase 1 program are ~\$200,000 (Table 13).

The Phase 2 program will include an induced polarization survey that extends the previous survey outlined herein (Figure 23). It will involve extension of the IP/resistivity coverage to the north and south of the existing survey, as well as a western extension of the survey in the North Zone. It is recommended



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that following this survey there be an evaluation of targets and a testing of the best chargeability anomalies that are coincident with existing showings, soil anomalies, can provide the best stratigraphic and structural information in the third dimension, and test the down-dip/down-structural extent of surface mineralization. Targets outlined by Hale and Gilliatt (2018), including targets 2, 5, 7, 12, and 17 would meet the criteria above; additional targets will likely be highlighted by the new survey and must also be considered. It is suggested that a ~3200m preliminary drill program be undertaken to provide the best testing of targets and holes that will provide critical stratigraphic and structural information that can be used to guide further exploration of the property.

It is recommended that a total budget for this work should be ~\$883,000 and broken down as follows: 1) phase 1 exploration work - ~\$200,000; 2) expanded IP survey - ~\$108,000; and 3) diamond drill program - \$575,000.

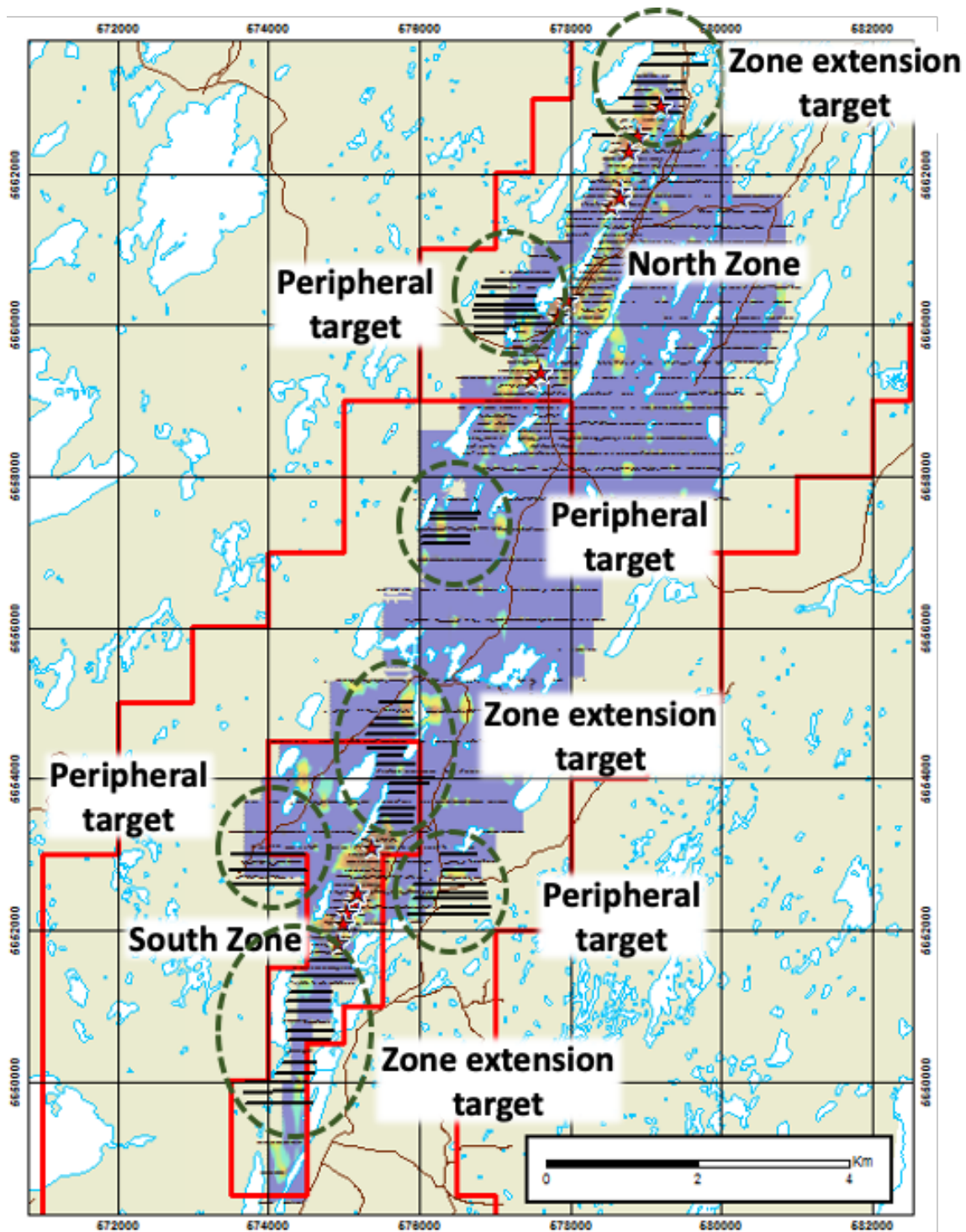
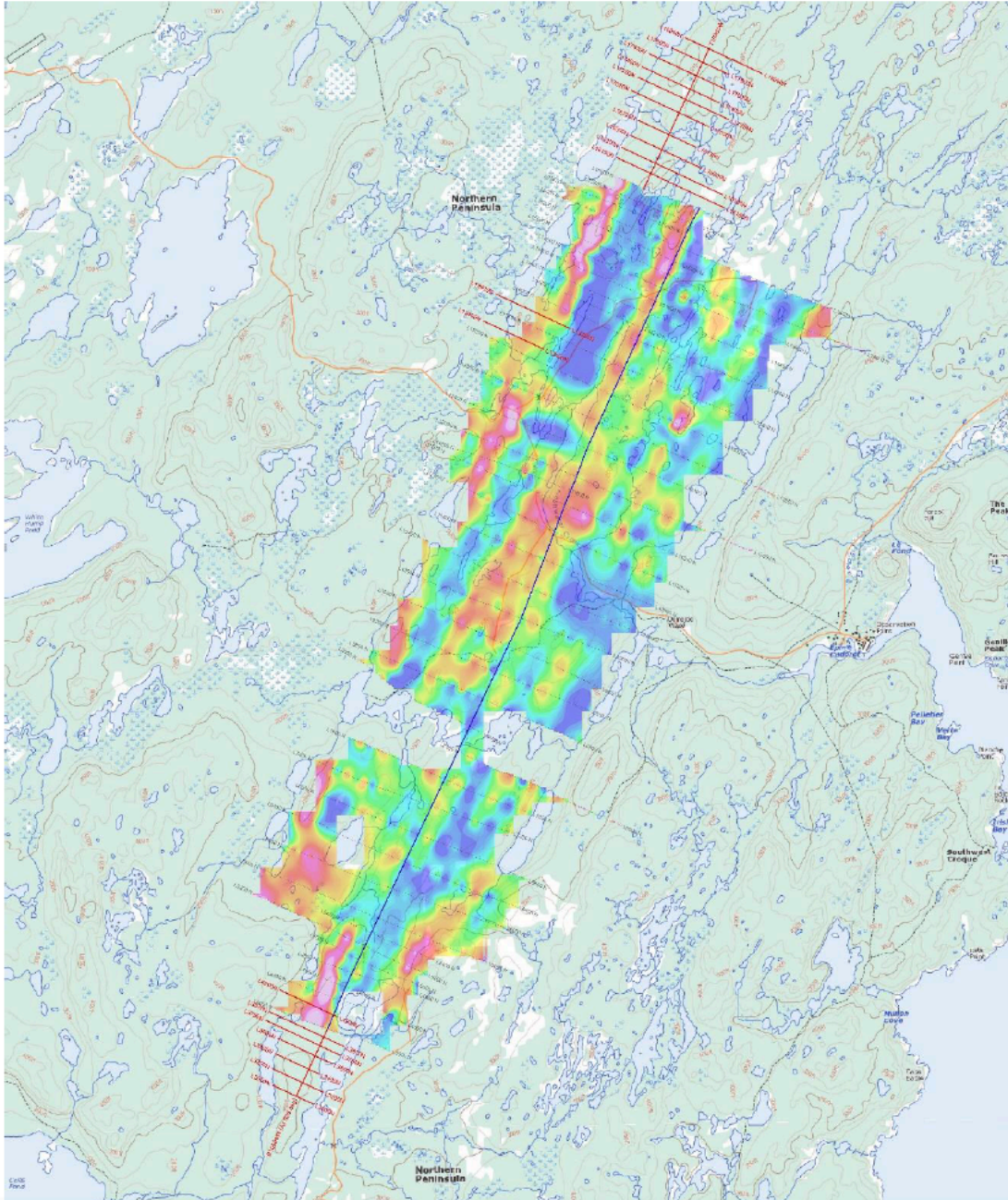


Figure 22. Proposed locations for the extension of the soil program (dark black lines) during Phase 1 of exploration on the Sail Pond Property.

**Table 13.** Detailed budget for Sail Pond Stage 1 follow up exploration program.

Item	Units	Unit Cost	Subtotals (less taxes)	Totals
<b>Accommodations &amp; Meals</b>				<b>\$5,400</b>
Hotel or cabin (daily)	30	\$130	\$3,900	
3 meals (daily)	30	\$50	\$1,500	
<b>Analytical</b>				<b>\$42,000</b>
Rock Samples ICP 34	400	\$20	\$8,000	
Soil	1,700	\$20	\$34,000	
<b>Consultants</b>				<b>\$0</b>
Consulting Geophysicist	0	\$8,000	\$0	
<b>Contractor</b>				<b>\$14,000</b>
Excavator (incl. operator + fuel)	14	\$1,000	\$14,000	
IP Survey (all in costs)	0	\$70,100	\$0	
IP Survey logistics	0	\$25,000	\$0	
<b>Wages</b>				<b>\$79,875</b>
Chief Geologist	30	\$750	\$22,500	
Senior Prospector/supervisor	45	\$275	\$12,375	
Local Labor	45	\$250	\$11,250	
Local Labor	45	\$250	\$11,250	
Local Labor	45	\$250	\$11,250	
Local Labor	45	\$250	\$11,250	
<b>Travel</b>				<b>\$11,400</b>
Truck rental 1 (monthly)	1	\$1,800	\$1,800	
Truck rental 2 (monthly)	2	\$1,800	\$3,600	
Fuel	2	\$1,500	\$3,000	
ATV 1 (monthly)	2	\$1,500	\$3,000	
<b>Rental Equipment/Utilities</b>				
water pump/hoses				<b>\$6,250</b>
Portable rock saw	25	\$150	\$3,750	
ATV trailer	25	\$50	\$1,250	
	25	\$50	\$1,250	
<b>Field and Safety Equipment</b>				
<b>Misc</b>	1	\$10,000	\$10,000	<b>\$10,000</b>
	1	\$5,000	\$5,000	<b>\$5,000</b>
<b>Subtotal</b>				<b>\$173,925</b>
<b>Contingency @ 15%</b>				<b>\$26,089</b>
<b>TOTAL</b>		\$0		<b>\$200,014</b>



**Figure 23. Proposed IP survey lines for Phase 2 exploration on the Sail Pond Property.**

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## 20.0 CERTIFICATE AND CONSENT OF THE INDEPENDENT QUALIFIED PERSON

I, Stephen J. Piercey, P.Geo., do hereby certify that:

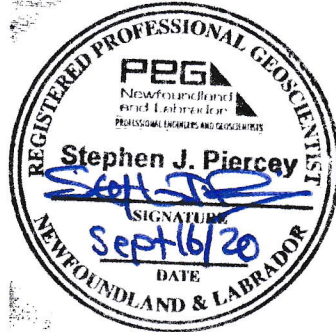
1. I am a consulting geologist with Stephen J. Piercey Geological Consulting (SJPGeoConsulting), 11 First Ave, St. John's, NL, Canada, A1B 1N3, and am also a Professor of Earth Sciences at Memorial University of Newfoundland, St. John's, NL, Canada.
2. I am a graduate of Memorial University of Newfoundland with a BSc (Hons) (1996) and MSc (1998) and am a graduate of the University of British Columbia with a PhD (2001).
3. I have been employed as a geologist since 1996 with recognized expertise in economic geology, geochemistry, quality control and quality assurance of geochemical data, and the exploration and genesis of mineral deposits.
4. I have undertaken fieldwork, consulting, exploration and/or publishing in numerous jurisdictions in Canada (Newfoundland and Labrador, Nova Scotia, Quebec, Ontario, Manitoba, Saskatchewan, Yukon, Northwest Territories, and Nunavut), Ireland, United States, and United Kingdom.
5. I am a member in good standing of the Professional Engineers and Geoscientists of Newfoundland and Labrador (PEGNL) (member number 04845) and the Association of Professional Geologists of Ontario (APGO)(member number: 0713).
6. I have read the definition of "qualified person" set out in National Instrument 43-101 ("NI 43-101") and certify that I fulfil the requirements for being a "qualified person" for this report by virtue of my education, professional status, and professional work experience.
7. I am the author of this report entitled "NI 43-101 Technical Report on the Sail Pond Project, Great Northern Peninsula, Newfoundland, Canada" having an effective date of September 16, 2020, and that it fairly and accurately represents the information in the sections of the technical report for which I am responsible. I wrote all sections of this report, but relied heavily upon the reports outlined in Appendix 4 by Hale and Gilliatt (2018, 2019) for section 9.5.
8. I visited the Sail Pond Property on June 28-30<sup>th</sup>, 2017 for an initial field visit to the property, to set up the soil pXRF study presented within this report, including the analytical methodology and QA/QC monitoring protocols, and for a verification sampling visit on May 27 and 28<sup>th</sup>, 2018. The visits and data collected during these visits were used in this report, coupled with information from Altius Resources Inc., and from other government, university, published, and unpublished company reports cited in the references.
9. As of September 16, 2020, to the best of my knowledge, information and belief, the sections of this Technical Report for which I am responsible, I am not aware of any material fact or material change with respect to the subject matter of the Technical Report that is not reflected in the Report, the nondisclosure of which would make the Technical Report misleading.
10. I have read National Instrument 43-101 (NI 43-101) and Form 43-101F1, and the Technical Report has been prepared in compliance with that instrument and form.

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11. I am independent of Altius Minerals Corp., Altius Resources Inc. and Latin American Minerals Inc. applying all of the tests in section 1.5 of National Instrument 43-101 and National Instrument 43-101 Companion Policy Section 1.5. I have had no prior involvement with the Sail Pond Project.
  12. I consent to the filing of the Technical Report with any stock exchange and other regulatory authority and any publication by them, including electronic publication in the public company files on their websites accessible by the public, of the Technical Report.

Dated on this day, September 16, 2020

Respectfully submitted,

Stephen J. Piercey





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**APPENDIX 1. GRAB SAMPLING DATA AND ANALYTICAL CERTIFICATES**

Appendix 1: Sail Pond Rock Grab Sample List

Sample Number	UTM Easting	UTM Northing	Datum	Zone	Rock Sample Source	Sample Type	Summary Rock Description	Certificate(s) Reference	Au(ppb)	Ag(ppm)	As(ppm)	Cu(ppm)	Pb(ppm)	Sb(ppm)	Zn(ppm)
8329	575190	5652411	NAD27	21	outcrop	grab	dolostone-quartz breccia with chalcocite, galena and malachite	EA 378-1614094, EA 378-1614277, EA-1817833	304.00	943.90	1001.00	52400.00	76000.00	441.00	23200.00
8330	575108	5652371	NAD27	21	outcrop	grab	dolostone with heavy malachite staining	EA 378-1614094, EA 378-1614277, EA 378-1817832, EA-1817833	15.00	108.00	480.00	4301.00	8400.00	441.00	10200.00
8331	575075	5652352	NAD27	21	outcrop	grab	dolostone-quartz veining with malachite	EA 378-1614094, EA 378-1614277, EA 378-1817832, EA-1817833	28.00	136.90	1001.00	4867.00	3800.00	441.00	12900.00
8332	575071	5652343	NAD27	21	outcrop	grab	dolostone-quartz veining with sulphides/ malachite in dissolution breccia	EA 378-1614094, EA 378-1614277, EA 378-1817832, EA-1817833	55.00	482.00	1001.00	21800.00	44400.00	441.00	22000.00
8333	575018	5652304	NAD27	21	outcrop	grab	quartz veins with clots of oxides and sulphides	EA 378-1614094, EA 378-1614277, EA 378-1817832, EA-1817833	530.00	660.60	548.00	23300.00	42600.00	441.00	30800.00
8334	576612	5654749	NAD27	21	outcrop	grab	dark grey limestone	EA 378-1614094, EA 378-1614277	6.00	2.20	18.00	67.00	232.00	25.00	97.00
8335	577741	5659992	NAD27	21	outcrop	grab	quartz veins with chalcocite	EA 378-1614094, EA 378-1614277	2.50	30.30	71.00	872.00	240.00	109.00	159.00
8336	577799	5659997	NAD27	21	outcrop	grab	dolostone-quartz veins with chalcocite and malachite	EA 378-1614094, EA 378-1614277, EA 378-1817832, EA-1817833	8.00	117.40	518.00	5565.00	3000.00	441.00	1020.00
8337	577858	5660123	NAD27	21	outcrop	grab	dolostone-quartz veins with chalcocite and malachite	EA 378-1614094, EA 378-1614277, EA 378-1817832, EA-1817833	103.00	526.40	1001.00	33500.00	8400.00	441.00	4500.00
10511	574808	5652162	NAD27	21	outcrop	grab	dolostone breccia	EA 378-1715629, EA 378-1715740	2.50	0.10	10.00	31.00	3.00	1.50	8.00
10512	574837	5652203	NAD27	21	outcrop	grab	dolostone-quartz breccia	EA 378-1715629, EA 378-1715740	2.50	0.10	6.00	9.00	3.00	1.50	6.00
10513	574971	5652297	NAD27	21	outcrop	grab	dolostone-quartz veins with sphalerite	EA 378-1715629, EA 378-1715740	2.50	0.10	2.50	5.00	6.00	1.50	65.00
10514	575013	5652318	NAD27	21	outcrop	grab	dolostone breccia-quartz veins with malachite	EA 378-1715629, EA 378-1715740	28.00	7.50	22.00	372.00	400.00	66.00	5000.00
10515	575057	5652350	NAD27	21	outcrop	grab	dolostone breccia-quartz veins	EA 378-1715629, EA 378-1715740	12.00	0.20	11.00	14.00	215.00	1.50	390.00
10516	575003	5652277	NAD27	21	outcrop	grab	dolostone-quartz breccia with abundant galena, chalcocite, and azurite	EA 378-1715629, EA 378-1715740, EA 378-1817832, EA-1817833	114.00	273.20	1001.00	9249.00	63000.00	2100.00	6700.00
10517	575008	5652283	NAD27	21	outcrop	grab	quartz-calcite veins with galena, chalcocite and malachite	EA 378-1715629, EA 378-1715740, EA 378-1817832, EA-1817833	137.00	173.00	127.00	5601.00	11100.00	2700.00	1504.00
10518	575068	5652344	NAD27	21	outcrop	grab	dolostone breccia-quartz veins with galena, chalcocite and malachite	EA 378-1715629, EA 378-1715740, EA 378-1817832, EA-1817833	145.00	824.50	1001.00	44600.00	31900.00	10400.00	14000.00
10519	575093	5652362	NAD27	21	outcrop	grab	dolostone-quartz veining with sulphides/ malachite in dissolution breccia	EA 378-1715629, EA 378-1715740, EA 378-1817832, EA-1817833	121.00	497.10	1001.00	24400.00	19500.00	5800.00	38300.00
10520	575208	5652422	NAD27	21	outcrop	grab	dolostone breccia-quartz veining with abundant malachite staining	EA 378-1715629, EA 378-1715740, EA 378-1817832, EA-1817833	45.00	258.40	987.00	12800.00	5600.00	3300.00	21400.00
10528	575985	5653348	NAD27	21	outcrop	grab	aphanatic mafic dike with minor pyrite	EA 378-1715629, EA 378-1715740	2.50	1.80	22.00	69.00	39.00	1.50	179.00
10529	588010	5661067	NAD27	21	subcrop	grab	massive chalcopyrite-pyrite	EA 378-1715629, EA 378-1715740	67.00	6.40	53.00	159000.00	50.00	1.50	815.00
10530	587999	5660884	NAD27	21	subcrop	grab	greywacke-quartz with chalcopyrite	EA 378-1715629, EA 378-1715740	2.50	0.40	2.50	2093.00	20.00	1.50	41.00
10531	577406	5659153	NAD27	21	outcrop	grab	dolostone-quartz vein with minor pyrite or arsenopyrite	EA 378-1715629, EA 378-1715740	2.50	0.20	14.00	323.00	17.00	1.50	17.00
10532	577426	5659213	NAD27	21	outcrop	grab	dolostone-quartz vein	EA 378-1715629, EA 378-1715740	2.50	0.30	2.50	26.00	15.00	1.50	15.00
10533	577581	5659544	NAD27	21	outcrop	grab	quartz vein with clots of galena	EA 378-1715629, EA 378-1715740	2.50	20.90	2.50	72.00	13100.00	15.00	19.00
10534	577558	5659544	NAD27	21	outcrop	grab	quartz vein with galena and sphalerite	EA 378-1715629, EA 378-1715740	2.50	6.30	2.50	19.00	3400.00	6.00	8500.00
11678	575058	5652250	NAD27	21	outcrop	grab	quartz vein with malachite	EA 378-1716388, EA 378-1716564	2.50	1.40	6.00	52.00	26.00	10.00	32.00
11830	575123	5652360	NAD27	21	outcrop	grab	dolostone-quartz breccia with abundant galena, chalcocite, and azurite	EA 378-1716566, EA 378-1817832	44.00	416.60	358.00	18500.00	14400.00	5300.00	15000.00
11964	575140	5652505	NAD27	21	outcrop	grab	dark dolostone-quartz veins with galena, chalcocite and malachite	EA 378-1716567	2.50	45.20	41.00	1240.00	13800.00	286.00	2600.00
11965	575147	5652505	NAD27	21	outcrop	grab	dolostone-quartz veins with chalcocite, azurite and malachite	EA 378-1716567, EA 378-1817832	14.00	321.60	1001.00	8808.00	6900.00	3100.00	13600.00
11966	575175	5652509	NAD27	21	outcrop	grab	dolostone-quartz veins with chalcocite and malachite	EA 378-1716567, EA 378-1817832	34.00	123.80	391.00	3957.00	4300.00	900.00	17500.00
11967	575212	5652508	NAD27	21	outcrop	grab	dolostone-quartz vein	EA 378-1716567, EA 378-1817832	6.00	73.90	90.00	2238.00	7400.00	600.00	6000.00
11968	575240	5652503	NAD27	21	outcrop	grab	dolostone with chalcocite, galena and malachite	EA 378-1716567, EA 378-1817832	28.00	213.10	391.00	7840.00	16800.00	2100.00	3000.00

Appendix 1: Sail Pond Rock Grab Sample List

Sample Number	UTM Easting	UTM Northing	Datum	Zone	Rock Sample Source	Sample Type	Summary Rock Description	Certificate(s) Reference	Au(ppb)	Ag(ppm)	As(ppm)	Cu(ppm)	Pb(ppm)	Sb(ppm)	Zn(ppm)
11969	575259	5652495	NAD27	21	outcrop	grab	dolostone-quartz vein with galena	EA 378-1716567	7.00	13.30	2.50	35.00	14900.00	18.00	11800.00
12501	575723	5649030	NAD27	21	outcrop	grab	quartz vein	EA 378-1715629, EA 378-1715740	2.50	0.10	8.00	14.00	16.00	1.50	13.00
12502	575058	5652273	NAD27	21	subcrop	grab	dolostone with galena and chalcocite	EA 378-1715629, EA 378-1715740	10.00	23.20	75.00	930.00	7300.00	182.00	13700.00
12503	575216	5652572	NAD27	21	outcrop	grab	dolostone breccia- quartz veins with chalcocite, galena and malachite	EA 378-1715629, EA 378-1715740, EA 378-1817832, EA-1817833	25.00	100.50	568.00	3346.00	7100.00	1100.00	1785.00
12504	575216	5652573	NAD27	21	outcrop	grab	dolostone breccia- quartz veins with chalcocite, galena and malachite	EA 378-1715629, EA 378-1715740	11.00	32.60	419.00	5057.00	2600.00	311.00	2006.00
12505	575215	5652571	NAD27	21	outcrop	grab	dolostone breccia- quartz veins with chalcocite, galena and malachite	EA 378-1715629, EA 378-1715740, EA 378-1817832, EA-1817833	35.00	195.50	2.50	8447.00	932.00	2500.00	9100.00
12506	575218	5652565	NAD27	21	outcrop	grab	dolostone breccia-quartz veining with galena and chalcocite	EA 378-1715629, EA 378-1715740	8.00	43.60	83.00	1618.00	5000.00	330.00	922.00
12507	575229	5652571	NAD27	21	outcrop	grab	dolostone breccia-quartz veining with galena, malachite and chalcocite	EA 378-1715629, EA 378-1715740, EA 378-1817832, EA-1817833	61.00	144.80	856.00	6863.00	3200.00	2000.00	15200.00
12508	575249	5652492	NAD27	21	outcrop	grab	dolostone breccia-quartz veining with galena, malachite and chalcocite	EA 378-1715629, EA 378-1715740, EA 378-1817832, EA-1817833	22.00	126.80	599.00	5844.00	8100.00	1700.00	9300.00
12509	575249	5652492	NAD27	21	outcrop	grab	dolostone breccia-quartz veining with galena, malachite and chalcocite	EA 378-1715629, EA 378-1715740	10.00	17.00	11.00	31.00	21200.00	22.00	4800.00
12510	575312	5652800	NAD27	21	outcrop	grab	dolostone breccia-quartz veining with galena, malachite and chalcocite	EA 378-1715629, EA 378-1715740, EA 378-1817832, EA-1817833	7.00	126.60	516.00	5005.00	7700.00	1600.00	3500.00
12511	575293	5652786	NAD27	21	outcrop	grab	dolostone breccia-quartz veining with galena, malachite and chalcocite	EA 378-1715629, EA 378-1715740	11.00	7.90	13.00	14.00	11500.00	8.00	769.00
12512	575296	5653056	NAD27	21	subcrop	grab	dolostone-quartz/calcite vein with galena	EA 378-1715629, EA 378-1715740	5.00	6.00	10.00	192.00	1411.00	33.00	3500.00
12513	575466	5653005	NAD27	21	boulder	grab	dolostone-quartz breccia with chalcocite and galena	EA 378-1715629, EA 378-1715740, EA 378-1817832, EA-1817833	23.00	61.40	163.00	2456.00	3600.00	1000.00	15000.00
12514	576322	5655206	NAD27	21	subcrop	grab	dolostone-quartz/calcite breccia with chalcocite and malachite	EA 378-1715629, EA 378-1715740	7.00	7.80	16.00	276.00	92.00	31.00	3900.00
12515	576335	5655236	NAD27	21	outcrop	grab	dolostone breccia-quartz veining with galena, malachite and chalcocite	EA 378-1715629, EA 378-1715740, EA 378-1817832, EA-1817833	142.00	523.90	907.00	18400.00	9800.00	5500.00	7200.00
12516	575665	5657065	NAD27	21	boulder	grab	dolostone with pyrite and Fe carbonate staining	EA 378-1715629, EA 378-1715740	2.50	0.70	15.00	27.00	28.00	1.50	32.00
12517	576608	5657126	NAD27	21	boulder	grab	dolostone with quartz-carbonate veining	EA 378-1715629, EA 378-1715740	7.00	0.50	2.50	20.00	21.00	1.50	15.00
12518	577592	5659593	NAD27	21	subcrop	grab	dolostone breccia-quartz veins with chalcocite	EA 378-1715629, EA 378-1715740	20.00	0.40	5.00	15.00	77.00	1.50	19.00
12519	577567	5659546	NAD27	21	subcrop	grab	dolostone breccia-quartz veins with chalcocite	EA 378-1715629, EA 378-1715740	10.00	7.60	39.00	7.00	5900.00	35.00	4400.00
12520	577614	5659365	NAD27	21	outcrop	grab	dolostone breccia-quartz veining with galena and chalcocite	EA 378-1715629, EA 378-1715740, EA 378-1817832, EA-1817833	50.00	117.00	418.00	4445.00	387.00	1600.00	929.00
12521	577612	5659366	NAD27	21	outcrop	grab	dolostone breccia-quartz veining with galena and chalcocite	EA 378-1715629, EA 378-1715740, EA 378-1817832, EA-1817833	72.00	154.60	279.00	4984.00	744.00	1800.00	821.00
12522	577653	5659360	NAD27	21	outcrop	grab	dolostone breccia-quartz veining with galena and chalcocite	EA 378-1715629, EA 378-1715740	47.00	20.50	32.00	918.00	1775.00	211.00	1473.00
12523	577518	5659101	NAD27	21	outcrop	grab	dolostone-quartz veining with galena and azurite	EA 378-1715629, EA 378-1715740, EA 378-1817832, EA-1817833	203.00	590.80	1001.00	28600.00	1987.00	8500.00	6600.00
12524	577517	5659097	NAD27	21	outcrop	grab	dolostone-quartz veining with galena and azurite	EA 378-1715629, EA 378-1715740, EA 378-1817832, EA-1817833	14.00	90.70	367.00	3112.00	6100.00	411.00	1945.00
12525	577507	5659100	NAD27	21	subcrop	grab	dolostone with chalcocite, galena and malachite	EA 378-1715629, EA 378-1715740	28.00	48.80	168.00	2231.00	714.00	210.00	216.00
12526	577289	5659000	NAD27	21	outcrop	grab	dolostone-quartz veining with chalcocite, galena and sphalerite	EA 378-1715629, EA 378-1715740	7.00	6.50	14.00	388.00	271.00	143.00	285.00
12527	577290	5659002	NAD27	21	outcrop	grab	dolostone-quartz veining with chalcocite	EA 378-1715629, EA 378-1715740	6.00	26.30	16.00	1139.00	17.00	319.00	174.00
12528	577434	5658956	NAD27	21	outcrop	grab	dolostone-quartz veining with galena and chalcocite	EA 378-1715629, EA 378-1715740, EA 378-1817832, EA-1817833	88.00	170.00	558.00	7174.00	5100.00	2400.00	9000.00
12529	577485	5659071	NAD27	21	outcrop	grab	dolostone-quartz veining with galena, malachite and chalcocite	EA 378-1715629, EA 378-1715740, EA 378-1817832, EA-1817833	130.00	288.50	880.00	13600.00	12200.00	3600.00	3000.00

Appendix 1: Sail Pond Rock Grab Sample List

Sample Number	UTM Easting	UTM Northing	Datum	Zone	Rock Sample Source	Sample Type	Summary Rock Description	Certificate(s) Reference	Au(ppb)	Ag(ppm)	As(ppm)	Cu(ppm)	Pb(ppm)	Sb(ppm)	Zn(ppm)
12530	577676	5659418	NAD27	21	outcrop	grab	dolostone with galena, malachite and chalcocite in fractures	EA 378-1715629, EA 378-1715740, EA 378-1817832, EA-1817833	125.00	194.20	332.00	8731.00	7100.00	2800.00	5100.00
12531	577679	5659479	NAD27	21	outcrop	grab	dolostone-quartz veining with malachite and chalcocite	EA 378-1715629, EA 378-1715740	22.00	38.00	78.00	1685.00	512.00	349.00	1117.00
12532	577203	5659047	NAD27	21	outcrop	grab	dolostone-quartz veining with malachite, galena and chalcocite	EA 378-1715629, EA 378-1715740	6.00	28.40	108.00	1387.00	721.00	316.00	1349.00
12533	577204	5659051	NAD27	21	outcrop	grab	dolostone-quartz veining with malachite and chalcocite	EA 378-1715629, EA 378-1715740, EA-1817833	11.00	90.50	312.00	5133.00	1197.00	1600.00	757.00
12534	576707	5659391	NAD27	21	outcrop	grab	dolostone-quartz veining with malachite and chalcocite	EA 378-1715629, EA 378-1715740	2.50	0.10	6.00	13.00	8.00	1.50	8.00
12535	577882	5660366	NAD27	21	outcrop	grab	dolostone-quartz veining with malachite and chalcocite	EA 378-1715629, EA 378-1715740	5.00	8.10	2.50	7.00	3700.00	1.50	40.00
12536	577868	5660324	NAD27	21	outcrop	grab	dolostone-quartz veining with sphalerite, malachite and chalcocite	EA 378-1715629, EA 378-1715740	7.00	26.60	73.00	1430.00	2182.00	164.00	173.00
12537	577864	5660312	NAD27	21	outcrop	grab	dolostone-quartz veining with galena	EA 378-1715629, EA 378-1715740	2.50	0.80	10.00	15.00	580.00	1.50	16.00
12538	577868	5660311	NAD27	21	outcrop	grab	dolostone-quartz veining with sphalerite, galena, malachite and chalcocite	EA 378-1715629, EA 378-1715740	5.00	13.50	55.00	577.00	1362.00	118.00	8600.00
12539	577826	5660009	NAD27	21	outcrop	grab	dolostone-quartz veining with malachite and chalcocite	EA 378-1715629, EA 378-1715740, EA 378-1817832, EA-1817833	7.00	105.50	75.00	5425.00	3000.00	336.00	639.00
12540	577945	5660061	NAD27	21	outcrop	grab	dolostone-quartz veining with malachite and chalcocite	EA 378-1715629, EA 378-1715740, EA 378-1817832, EA-1817833	57.00	141.00	495.00	7454.00	15000.00	2300.00	2900.00
12541	575417	5652301	NAD27	21	outcrop	grab	dolostone-quartz with pyrite	EA 378-1715629, EA 378-1715740	2.50	1.10	2.50	50.00	58.00	19.00	10.00
12542	575805	5652301	NAD27	21	outcrop	grab	quartz breccia	EA 378-1715629, EA 378-1715740	13.00	1.10	2.50	55.00	56.00	21.00	25.00
12543	575964	5652497	NAD27	21	outcrop	grab	quartz breccia	EA 378-1715629, EA 378-1715740	2.50	0.10	2.50	6.00	8.00	1.50	2.50
12544	575756	5652502	NAD27	21	outcrop	grab	quartz breccia	EA 378-1715629, EA 378-1715740	2.50	0.10	2.50	5.00	5.00	1.50	2.50
12545	574042	5652709	NAD27	21	boulder	grab	dolostone-quartz breccia with pyrite	EA 378-1715629, EA 378-1715740	2.50	0.20	2.50	14.00	21.00	1.50	26.00
12546	574166	5653416	NAD27	21	outcrop	grab	quartz breccia	EA 378-1715629, EA 378-1715740	2.50	0.10	2.50	2.50	7.00	7.00	5.00
12547	574191	5653554	NAD27	21	boulder	grab	quartz breccia with pyrite	EA 378-1715629, EA 378-1715740	2.50	0.30	2.50	24.00	39.00	1.50	29.00
12548	574831	5646686	NAD27	21	outcrop	grab	mafic dike with trace sulphides	EA 378-1715629, EA 378-1715740	2.50	0.80	10.00	312.00	11.00	1.50	124.00
12549	578308	5656898	NAD27	21	outcrop	grab	sandstone with pyrite	EA 378-1716068, EA 378-1716230	2.50	0.20	6.00	22.00	20.00	3.00	66.00
12550	577409	5659310	NAD27	21	subcrop	grab	dolostone breccia with sphalerite and galena	EA 378-1716068, EA 378-1716230	9.00	16.60	26.00	635.00	83.00	139.00	421.00
12551	577899	5658284	NAD27	21	boulder	grab	dolostone breccia with galena and malachite	EA 378-1716068, EA 378-1716230, EA-1817833	7.00	59.10	449.00	2102.00	4100.00	301.00	251.00
12552	577900	5658288	NAD27	21	boulder	grab	siltstone with pyrite	EA 378-1716068, EA 378-1716230	2.50	0.10	13.00	35.00	21.00	1.50	95.00
12553	577533	5658945	NAD27	21	boulder	grab	quartz vein with galena	EA 378-1716068, EA 378-1716230	2.50	2.70	6.00	181.00	29.00	32.00	39.00
12555	579260	5658886	NAD27	21	subcrop	grab	dolostone breccia-quartz veins with galena	EA 378-1716068, EA 378-1716230	2.50	2.70	13.00	91.00	314.00	23.00	42.00
12556	580021	5658912	NAD27	21	subcrop	grab	dolostone breccia with pyrite and chalcocite	EA 378-1716068, EA 378-1716230	2.50	0.10	12.00	12.00	14.00	1.50	19.00
12557	578064	5659840	NAD27	21	subcrop	grab	quartz with pyrite	EA 378-1716068, EA 378-1716230	2.50	0.10	5.00	15.00	6.00	3.00	8.00
12558	578400	5660885	NAD27	21	outcrop	grab	dolostone-quartz breccia with galena and sphalerite	EA 378-1716068, EA 378-1716230, EA 378-1817832, EA-1817833	34.00	107.00	458.00	4897.00	4100.00	1700.00	4700.00
12559	578299	5660901	NAD27	21	outcrop	grab	dolostone breccia with galena, chalcocite, malachite and galena	EA 378-1716068, EA 378-1716230, EA 378-1817832, EA-1817833	6.00	108.10	390.00	4682.00	3700.00	1600.00	29000.00
12560	578128	5660502	NAD27	21	subcrop	grab	dolostone breccia with malachite, azurite and galena	EA 378-1716068, EA 378-1716230	2.50	24.00	33.00	970.00	1542.00	144.00	7900.00
12561	578567	5661893	NAD27	21	outcrop	grab	quartz vein with malachite and galena	EA 378-1716068, EA 378-1716230, EA 378-1817832, EA-1817833	2.50	66.50	81.00	2881.00	1950.00	800.00	1755.00
12562	578658	5662107	NAD27	21	outcrop	grab	quartz breccia with pyrite, sphalerite and galena	EA 378-1716068, EA 378-1716230	2.50	11.40	7.00	263.00	2199.00	56.00	59.00
12563	579156	5662897	NAD27	21	outcrop	grab	quartz breccia with sphalerite, galena and malachite	EA 378-1716068, EA 378-1716230	5.00	16.40	12.00	271.00	3600.00	73.00	4100.00
12564	578870	5662493	NAD27	21	outcrop	grab	quartz breccia with sphalerite, galena and malachite	EA 378-1716068, EA 378-1716230, EA 378-1817832, EA-1817833	15.00	64.10	121.00	2284.00	3200.00	600.00	3900.00

Appendix 1: Sail Pond Rock Grab Sample List

Sample Number	UTM Easting	UTM Northing	Datum	Zone	Rock Sample Source	Sample Type	Summary Rock Description	Certificate(s) Reference	Au(ppb)	Ag(ppm)	As(ppm)	Cu(ppm)	Pb(ppm)	Sb(ppm)	Zn(ppm)
12565	576726	5658319	NAD27	21	subcrop	grab	quartz vein with chalcocite	EA 378-1716389, EA 378-1716584, EA-1817833	6.00	81.80	110.00	2551.00	30.00	1400.00	439.00
12566	574549	5651322	NAD27	21	boulder	grab	quartz breccia	EA 378-1715629, EA 378-1715740	2.50	0.50	2.50	12.00	16.00	5.00	50.00
12567	574324	5651448	NAD27	21	boulder	grab	quartz breccia	EA 378-1715629, EA 378-1715740	2.50	0.10	2.50	5.00	8.00	9.00	9.00
12568	574321	5651445	NAD27	21	boulder	grab	quartz vein with chalcocite and galena	EA 378-1715629, EA 378-1715740, EA-1817833	10.00	56.10	84.00	3436.00	2300.00	1000.00	3100.00
12569	576425	5657466	NAD27	21	boulder	grab	quartz vein with chalcocite and galena	EA 378-1716068, EA 378-1716230	10.00	27.50	71.00	1316.00	36.00	258.00	340.00
12570	576432	5657489	NAD27	21	subcrop	grab	dolostone-quartz breccia with chalcocite	EA 378-1716068, EA 378-1716230, EA-1817833	27.00	51.20	182.00	1977.00	1256.00	500.00	290.00
12571	578712	5657368	NAD27	21	boulder	grab	dolostone-quartz breccia with chalcocite	EA 378-1716068, EA 378-1716230, EA-1817833	5.00	211.30	498.00	7722.00	569.00	2500.00	1359.00
12572	579414	5658643	NAD27	21	boulder	grab	dolostone-quartz breccia with chalcocite, azurite, malachite	EA 378-1716068, EA 378-1716230, EA-1817833	66.00	253.00	1001.00	9912.00	4600.00	2600.00	2600.00
12573	579405	5658855	NAD27	21	outcrop	grab	carbonatedolostone-quartz veins with sphalerite	EA 378-1716068, EA 378-1716230	2.50	6.10	19.00	245.00	518.00	59.00	6700.00
12574	579975	5660486	NAD27	21	boulder	grab	dolostone-quartz breccia with chalcocite, azurite, malachite	EA 378-1716068, EA 378-1716230, EA-1817833	85.00	350.50	907.00	19800.00	2174.00	4500.00	3700.00
12575	579927	5660801	NAD27	21	subcrop	grab	quartz vein with pyrite	EA 378-1716068, EA 378-1716230	2.50	3.10	27.00	149.00	50.00	39.00	36.00
12576	579938	5660832	NAD27	21	subcrop	grab	quartz-carbonate breccia with chalcocite	EA 378-1716068, EA 378-1716230, EA-1817833	8.00	99.10	353.00	5895.00	316.00	1400.00	1661.00
12577	579871	5660311	NAD27	21	boulder	grab	dolostone-quartz vein with galena and chalcocite	EA 378-1716068, EA 378-1716230	2.50	44.20	122.00	1650.00	351.00	396.00	917.00
12578	579229	5660011	NAD27	21	boulder	grab	dolostone-quartz vein with galena and chalcocite	EA 378-1716068, EA 378-1716230, EA-1817833	5.00	50.50	39.00	2843.00	239.00	900.00	3000.00
12579	579176	5659957	NAD27	21	boulder	grab	dolostone-quartz vein with galena, malachite and chalcocite	EA 378-1716068, EA 378-1716230, EA-1817833	91.00	146.90	948.00	8224.00	4400.00	1700.00	1457.00
12580	579645	5659488	NAD27	21	boulder	grab	dolostone-quartz vein with galena and chalcocite	EA 378-1716068, EA 378-1716230	2.50	5.30	8.00	197.00	2176.00	42.00	86.00
12581	581283	5663529	NAD27	21	boulder	grab	quartz vein with chalcocite	EA 378-1716068, EA 378-1716230	5.00	9.10	32.00	251.00	1909.00	55.00	34500.00
12585	581003	5663422	NAD27	21	boulder	grab	quartz vein breccia with chalcocite	EA 378-1716068, EA 378-1716230	20.00	28.90	20.00	1070.00	55.00	319.00	289.00
12586	580279	5659500	NAD27	21	boulder	grab	quartz vein breccia with chalcocite, malachite and galena	EA 378-1716068, EA 378-1716230	2.50	34.10	31.00	1713.00	842.00	283.00	359.00
12587	580249	5659497	NAD27	21	boulder	grab	quartz vein breccia with chalcocite, malachite and galena	EA 378-1716068, EA 378-1716230	12.00	43.40	69.00	1734.00	5200.00	416.00	296.00
12588	579765	5658573	NAD27	21	subcrop	grab	dolostone-quartz breccia with chalcocite and sphalerite	EA 378-1716068, EA 378-1716230, EA-1817833	16.00	51.30	85.00	2362.00	1892.00	600.00	3100.00
12589	579315	5658519	NAD27	21	outcrop	grab	quartz breccia with pyrite and chalcocite	EA 378-1716068, EA 378-1716230	2.50	0.30	1001.00	22.00	16.00	7.00	21.00
12590	579294	5658511	NAD27	21	subcrop	grab	dolostone-quartz breccia with chalcocite	EA 378-1716068, EA 378-1716230	2.50	0.10	7.00	9.00	11.00	1.50	8.00
12591	575030	5652226	NAD27	21	outcrop	grab	quartz vein with abundant chalcocite and malachite	EA 378-1716389, EA 378-1716584, EA-1817833	461.00	2030.00	1001.00	70800.00	94000.00	25400.00	2700.00
12592	574936	5651838	NAD27	21	outcrop	grab	dolostone with chalcocite, gazurite and malachite	EA 378-1716389, EA 378-1716584, EA-1817833	22.00	123.30	107.00	2722.00	25100.00	1600.00	2201.00
12593	574927	5651831	NAD27	21	outcrop	grab	dolostone with chalcocite, gazurite and malachite	EA 378-1716389, EA 378-1716584	2.50	30.30	13.00	87.00	23100.00	66.00	202.00
12594	574936	5651835	NAD27	21	outcrop	grab	dolostone with chalcocite, gazurite and malachite	EA 378-1716389, EA 378-1716584, EA-1817833	5.00	61.20	60.00	2237.00	9500.00	1000.00	1486.00
12595	575175	5652395	NAD27	21	outcrop	grab	dolostone-quartz vein with chalcocite and malachite	EA 378-1716566, EA 378-1817832	15.00	463.70	1001.00	15600.00	45400.00	3500.00	4300.00
12596	575177	5652394	NAD27	21	outcrop	grab	dolostone-quartz and calcite vein with abundant chalcocite and malachite	EA 378-1716566, EA 378-1817832	71.00	166.40	427.00	6187.00	12000.00	1600.00	170000.00
12597	577948	5660330	NAD27	21	outcrop	grab	dolostone-quartz vein with chalcocite and galena	EA 378-1717355, EA 378-1717355 AS	2.50	30.20	91.00	855.00	10700.00	217.00	775.00
12598	578975	5662495	NAD27	21	outcrop	grab	dolostone-quartz vein	EA 378-1717355, EA 378-1717355 AS	2.50	0.30	2.50	12.00	17.00	3.00	25.00
12599	578962	5662499	NAD27	21	outcrop	grab	dolostone-quartz and calcite veins	EA 378-1717355, EA 378-1717355 AS	2.50	0.10	6.00	5.00	14.00	4.00	14.00
12600	578883	5662503	NAD27	21	outcrop	grab	dolostone-quartz veins with chalcocite and galena	EA 378-1717355, EA 378-1717355 AS	2.50	12.30	11.00	202.00	1065.00	48.00	55.00
12601	576665	5658245	NAD27	21	subcrop	grab	quartz breccia with chalcocite and galena	EA 378-1716389, EA 378-1716584, EA-1817833	2.50	85.50	175.00	3908.00	68.00	1700.00	661.00
12602	577709	5658987	NAD27	21	boulder	grab	quartz vein with malachite	EA 378-1716389, EA 378-1716584, EA-1817833	86.00	146.30	146.00	5052.00	27.00	1700.00	856.00
12603	578712	5661947	NAD27	21	boulder	grab	dolostone with minor galena	EA 378-1716389, EA 378-1716584	2.50	1.40	2.50	38.00	749.00	7.00	15.00
12604	578658	5661882	NAD27	21	outcrop	grab	quartz vein with chalcocite	EA 378-1716389, EA 378-1716584	9.00	22.30	112.00	751.00	368.00	154.00	2600.00
12605	578544	5661683	NAD27	21	outcrop	grab	quartz vein with galena	EA 378-1716389, EA 378-1716584	8.00	17.50	32.00	796.00	216.00	195.00	142.00



Appendix 1: Sail Pond Rock Grab Sample List

Sample Number	UTM Easting	UTM Northing	Datum	Zone	Rock Sample Source	Sample Type	Summary Rock Description	Certificate(s) Reference	Au(ppb)	Ag(ppm)	As(ppm)	Cu(ppm)	Pb(ppm)	Sb(ppm)	Zn(ppm)
12606	575260	5652497	NAD27	21	outcrop	grab	dolostone breccia-quartz veins with chalcocite, malachite and azurite	EA 378-1715629, EA 378-1715740, EA-1817833	141.00	449.00	1001.00	24100.00	6000.00	5300.00	11500.00
12607	575134	5652503	NAD27	21	outcrop	grab	dolostone-quartz breccia with chalcocite and galena	EA 378-1715629, EA 378-1715740	2.50	18.90	21.00	649.00	651.00	154.00	1170.00
12608	574898	5652503	NAD27	21	outcrop	grab	dolostone-quartz breccia	EA 378-1715629, EA 378-1715740	2.50	0.10	2.50	10.00	10.00	10.00	14.00
12609	575267	5652675	NAD27	21	subcrop	grab	dolostone-quartz vein with pyrite and chalcopyrite	EA 378-1715629, EA 378-1715740	5.00	38.00	107.00	970.00	1754.00	218.00	1104.00
12610	575263	5652678	NAD27	21	outcrop	grab	dolostone breccia with galena and sphalerite	EA 378-1715629, EA 378-1715740, EA-1817833	2.50	50.40	165.00	1919.00	3600.00	317.00	3000.00
12611	574625	5651994	NAD27	21	outcrop	grab	dolostone-quartz veins	EA 378-1715629, EA 378-1715740	6.00	0.30	2.50	20.00	13.00	11.00	18.00
12612	575019	5652149	NAD27	21	outcrop	grab	dolostone breccia-quartz veins with galena and sphalerite	EA 378-1715629, EA 378-1715740	2.50	22.70	26.00	1092.00	850.00	260.00	1042.00
12613	574951	5651892	NAD27	21	subcrop	grab	dolostone breccia with sphalerite and galena	EA 378-1715629, EA 378-1715740, EA-1817833	2.50	96.20	287.00	4101.00	14.00	1200.00	1213.00
12614	574759	5655211	NAD27	21	subcrop	grab	quartz with pyrite	EA 378-1715629, EA 378-1715740	2.50	0.80	2.50	19.00	17.00	1.50	66.00
12615	576411	5657307	NAD27	21	subcrop	grab	dolostone with galena	EA 378-1716068, EA 378-1716230	2.50	24.00	40.00	1176.00	75.00	187.00	147.00
12616	576833	5658492	NAD27	21	outcrop	grab	dolostone-quartz veins with galena, chalcocite and malachite	EA 378-1716068, EA 378-1716230, EA-1817833	2.50	83.30	131.00	3312.00	1778.00	900.00	813.00
12617	576988	5658492	NAD27	21	outcrop	grab	dolostone-quartz veins with malachite, galena, sphalerite	EA 378-1716068, EA 378-1716230, EA-1817833	2.50	361.20	511.00	12700.00	13300.00	3500.00	5400.00
12618	577051	5658512	NAD27	21	outcrop	grab	dolostone breccia-quartz vein with chalcocite and galena	EA 378-1716068, EA 378-1716230	14.00	13.70	32.00	450.00	496.00	113.00	85.00
12619	577158	5658709	NAD27	21	outcrop	grab	dolostone breccia-quartz veins with galena	EA 378-1716068, EA 378-1716230, EA-1817833	55.00	200.50	1001.00	11400.00	3300.00	2700.00	1417.00
12620	577206	5659091	NAD27	21	outcrop	grab	dolostone breccia-quartz vein with chalcocite and galena	EA 378-1716068, EA 378-1716230	6.00	29.20	97.00	987.00	1650.00	255.00	4400.00
12621	577282	5659172	NAD27	21	outcrop	grab	dolostone-quartz breccia with galena and chalcocite	EA 378-1716068, EA 378-1716230	2.50	13.30	13.00	648.00	747.00	137.00	184.00
12622	578315	5661296	NAD27	21	outcrop	grab	dolostone-quartz breccia with chalcocite	EA 378-1716068, EA 378-1716230	6.00	27.50	45.00	1435.00	27.00	285.00	253.00
12623	578577	5661104	NAD27	21	subcrop	grab	quartz-carbonate with malachite and chalcocite	EA 378-1716068, EA 378-1716230	2.50	10.60	18.00	700.00	231.00	51.00	72.00
12624	579529	5661478	NAD27	21	subcrop	grab	quartz-carbonate breccia with malachite, chalcocite and galena	EA 378-1716068, EA 378-1716230	7.00	28.80	26.00	1564.00	100.00	293.00	223.00
12625	579443	5661895	NAD27	21	subcrop	grab	quartz-carbonate vein with malachite, chalcocite and galena	EA 378-1716068, EA 378-1716230, EA-1817833	58.00	169.10	497.00	7516.00	1258.00	1700.00	3000.00
12626	580341	5661703	NAD27	21	boulder	grab	quartz breccia with galena and chalcocite	EA 378-1716068, EA 378-1716230	7.00	0.70	14.00	41.00	16.00	13.00	29.00
12627	579507	5661716	NAD27	21	subcrop	grab	quartz breccia with galena, sphalerite, chalcocite and malachite	EA 378-1716068, EA 378-1716230	12.00	40.40	67.00	1820.00	1185.00	800.00	2072.00
12628	579453	5662510	NAD27	21	boulder	grab	quartz breccia with chalcocite and galena	EA 378-1716068, EA 378-1716230, EA-1817833	6.00	58.00	32.00	1780.00	332.00	409.00	353.00
12640	578033	5660480	NAD27	21	boulder	grab	dolostone-quartz vein with chalcocite, malachite, azurite and galena	EA 378-1715629, EA 378-1715740	2.50	20.50	9.00	1188.00	418.00	6.00	142.00
12641	578026	5660487	NAD27	21	subcrop	grab	dolostone-quartz veins with chalcocite, malachite, galena and azurite	EA 378-1715629, EA 378-1715740, EA-1817833	13.00	79.70	48.00	6270.00	1037.00	17.00	71.00
12642	578040	5660535	NAD27	21	outcrop	grab	dolostone-quartz veining with chalcocite, galena and malachite	EA 378-1715629, EA 378-1715740, EA-1817833	2.50	45.40	39.00	2368.00	1309.00	158.00	1511.00
12643	578052	5660546	NAD27	21	outcrop	grab	dolostone-quartz veins with galena and chalcocite	EA 378-1715629, EA 378-1715740	15.00	13.40	11.00	65.00	7000.00	21.00	14.00
12644	578594	5661623	NAD27	21	outcrop	grab	dolostone-quartz veins with abundant galena, malachite and chalcocite	EA 378-1715629, EA 378-1715740	2.50	36.70	51.00	1716.00	1940.00	394.00	559.00
12645	578641	5661675	NAD27	21	outcrop	grab	dolostone-quartz veining with galena, malachite and azurite	EA 378-1715629, EA 378-1715740, EA-1817833	54.00	77.40	207.00	3725.00	2500.00	1300.00	1548.00
12646	578651	5661794	NAD27	21	outcrop	grab	dolostone-quartz veins with abundant galena and chalcocite	EA 378-1715629, EA 378-1715740, EA-1817833	12.00	72.70	112.00	4444.00	415.00	1300.00	1000.00
12647	578601	5661383	NAD27	21	boulder	grab	dolostone with chalcocite and malachite	EA 378-1715629, EA 378-1715740	5.00	15.50	24.00	1186.00	791.00	108.00	124.00
12648	578590	5661576	NAD27	21	outcrop	grab	dolostone-quartz veining with galena, chalcocite, malachite and azurite	EA 378-1715629, EA 378-1715740, EA-1817833	42.00	73.40	571.00	6559.00	1377.00	1100.00	1657.00
12649	578595	5661604	NAD27	21	outcrop	grab	dolostone-quartz veins with abundant galena, malachite and chalcocite	EA 378-1715629, EA 378-1715740	2.50	9.50	2.50	395.00	57.00	65.00	62.00
12650	578606	5661633	NAD27	21	outcrop	grab	dolostone-quartz veining with galena, malachite and azurite	EA 378-1715629, EA 378-1715740, EA-1817833	2.50	49.90	265.00	2857.00	5300.00	700.00	359.00
12651	578601	5661643	NAD27	21	outcrop	grab	dolostone-quartz veins with abundant galena, malachite and chalcocite	EA 378-1715629, EA 378-1715740, EA-1817833	130.00	213.30	808.00	11400.00	1597.00	3500.00	6000.00

Appendix 1: Sail Pond Rock Grab Sample List

Sample Number	UTM Easting	UTM Northing	Datum	Zone	Rock Sample Source	Sample Type	Summary Rock Description	Certificate(s) Reference	Au(ppb)	Ag(ppm)	As(ppm)	Cu(ppm)	Pb(ppm)	Sb(ppm)	Zn(ppm)
12661	575049	5652319	NAD27	21	outcrop	grab	dolostone breccia with chalcocite and galena	EA 378-1715629, EA 378-1715740, EA-1817833	15.00	55.90	173.00	1681.00	3600.00	245.00	1705.00
12662	578633	5654186	NAD27	21	outcrop	grab	black shale with quartz vein containing pyrite	EA 378-1715629, EA 378-1715740	2.50	1.20	9.00	66.00	35.00	12.00	51.00
12663	575063	5652324	NAD27	21	outcrop	grab	dolostone breccia with chalcocite and galena	EA 378-1715629, EA 378-1715740	2.50	8.60	2.50	148.00	7200.00	23.00	3300.00
12664	575108	5652357	NAD27	21	outcrop	grab	dolostone breccia with stringer chalcocite and galena	EA 378-1715629, EA 378-1715740, EA-1817833	27.00	145.70	635.00	5637.00	19300.00	1700.00	5300.00
12665	575109	5652362	NAD27	21	outcrop	grab	dolostone breccia with sphalerite and galena	EA 378-1715629, EA 378-1715740, EA-1817833	6.00	77.30	223.00	3397.00	6800.00	1200.00	1451.00
12666	575124	5652364	NAD27	21	outcrop	grab	dolostone breccia with stringer chalcocite and galena	EA 378-1715629, EA 378-1715740, EA-1817833	48.00	323.00	1001.00	13100.00	21400.00	4600.00	6300.00
12667	575308	5652485	NAD27	21	outcrop	grab	dolostone breccia with stringer chalcocite and galena	EA 378-1715629, EA 378-1715740, EA-1817833	60.00	269.80	1001.00	13300.00	25900.00	2700.00	7000.00
12668	575249	5652525	NAD27	21	outcrop	grab	dolostone breccia with chalcocite and galena	EA 378-1715629, EA 378-1715740, EA-1817833	11.00	79.00	196.00	2126.00	7400.00	900.00	698.00
12669	575249	5652525	NAD27	21	outcrop	grab	dolostone breccia with chalcocite and galena	EA 378-1715629, EA 378-1715740	7.00	25.00	22.00	731.00	588.00	161.00	575.00
12670	575014	5652246	NAD27	21	subcrop	grab	dolostone breccia-quartz veins with chalcocite and galena	EA 378-1715629, EA 378-1715740	2.50	1.10	2.50	23.00	754.00	8.00	23.00
12671	575002	5652090	NAD27	21	outcrop	grab	quartz vein	EA 378-1715629, EA 378-1715740	2.50	0.30	2.50	15.00	26.00	4.00	6.00
12672	574927	5651879	NAD27	21	outcrop	grab	dolostone breccia-quartz vein with sphalerite and galena	EA 378-1715629, EA 378-1715740	2.50	1.90	19.00	10.00	3500.00	347.00	5700.00
12673	574942	5651890	NAD27	21	subcrop	grab	dolostone breccia-quartz veins with chalcocite and galena	EA 378-1715629, EA 378-1715740	2.50	41.50	35.00	2080.00	26.00	325.00	301.00
12674	574921	5651820	NAD27	21	subcrop	grab	dolostone breccia-quartz veins with chalcocite and galena	EA 378-1715629, EA 378-1715740, EA-1817833	14.00	82.70	255.00	5030.00	4500.00	1800.00	897.00
12675	575052	5652233	NAD27	21	outcrop	grab	quartz breccia with chalcocite and galena	EA 378-1715629, EA 378-1715740	2.50	30.10	50.00	580.00	7700.00	148.00	2700.00
12676	577633	5657858	NAD27	21	outcrop	grab	dolostone-quartz breccia	EA 378-1715629, EA 378-1715740	2.50	6.20	5.00	168.00	448.00	40.00	60.00
12677	574168	5653410	NAD27	21	subcrop	grab	dolostone-quartz breccia	EA 378-1715629, EA 378-1715740	2.50	0.20	6.00	6.00	66.00	9.00	14.00
12678	573981	5653262	NAD27	21	subcrop	grab	shale with quartz vein	EA 378-1715629, EA 378-1715740	2.50	0.30	2.50	38.00	20.00	1.50	37.00
12679	573588	5652926	NAD27	21	outcrop	grab	sandstone with quartz vein containing pyrite	EA 378-1715629, EA 378-1715740	2.50	0.10	2.50	12.00	34.00	6.00	11.00
12680	576266	5652687	NAD27	21	outcrop	grab	shale with quartz vein	EA 378-1715629, EA 378-1715740	2.50	0.10	2.50	10.00	15.00	1.50	12.00
12681	572458	5647854	NAD27	21	outcrop	grab	shale with quartz vein	EA 378-1715629, EA 378-1715740	2.50	0.10	2.50	7.00	28.00	1.50	34.00
12682	588012	5661126	NAD27	21	outcrop	grab	greywacke	EA 378-1715629, EA 378-1715740	10.00	0.30	7.00	14.00	7.00	1.50	17.00
12683	588012	5661064	NAD27	21	subcrop	grab	greywacke with quartz breccia with chalcopyrite and pyrite	EA 378-1715629, EA 378-1715740	15.00	3.00	36.00	77600.00	20.00	9.00	360.00
12684	587999	5661037	NAD27	21	subcrop	grab	quartz-greywacke breccia with chalcopyrite and pyrite	EA 378-1715629, EA 378-1715740	2.50	0.60	11.00	13200.00	8.00	8.00	89.00
12685	587977	5661048	NAD27	21	outcrop	grab	greywacke-breccia with chalc	EA 378-1715629, EA 378-1715740	2.50	0.50	67.00	6633.00	10.00	3.00	91.00
12687	580482	5659292	NAD27	21	boulder	grab	dolostone-quartz veins and clots of chalcocite	EA 378-1716389, EA 378-1716584, EA-1817833	44.00	102.30	274.00	4642.00	2400.00	1700.00	2091.00
12688	577160	5658810	NAD27	21	outcrop	grab	dolostone-quartz veins with chalcocite	EA 378-1716568, EA 378-1716568, EA-1817833	18.00	79.20	384.00	3504.00	732.00	1300.00	455.00
12689	577200	5659009	NAD27	21	subcrop	grab	dolostone with chalcocite	EA 378-1716568, EA 378-1716568	2.50	18.10	24.00	709.00	1732.00	149.00	1228.00
12690	575427	5653100	NAD27	21	outcrop	grab	dolomite-quartz vein with galena and chalcocite	EA 378-1716568, EA 378-1716568, EA-1817833	154.00	286.60	1001.00	8110.00	20700.00	2500.00	25600.00
12694	577860	5660236	NAD27	21	subcrop	grab	dolostone breccia-quartz veins with chalcocite and galena	EA 378-1715629, EA 378-1715740	2.50	2.50	2.50	46.00	2033.00	5.00	619.00
12695	578482	5660186	NAD27	21	boulder	grab	dolostone-quartz breccia with chalcocite, galena and sphalerite	EA 378-1715629, EA 378-1715740, EA 378-1817832, EA-1817833	2.50	70.70	375.00	3970.00	699.00	1600.00	3500.00
12696	578610	5660750	NAD27	21	boulder	grab	dolostone-quartz breccia with chalcocite, galena and sphalerite	EA 378-1715629, EA 378-1715740	8.00	9.50	12.00	155.00	5400.00	25.00	5400.00
12697	578491	5660850	NAD27	21	outcrop	grab	dolostone-quartz veins with chalcocite and galena	EA 378-1715629, EA 378-1715740, EA-1817833	19.00	69.50	148.00	4130.00	3400.00	1500.00	620.00
12698	578491	5660850	NAD27	21	outcrop	grab	dolostone breccia-quartz veins with chalcocite and galena	EA 378-1715629, EA 378-1715740, EA-1817833	50.00	111.80	440.00	6559.00	1342.00	2100.00	951.00
12699	578801	5661343	NAD27	21	subcrop	grab	dolostone breccia-quartz veins with chalcocite and galena	EA 378-1715629, EA 378-1715740, EA-1817833	43.00	74.90	270.00	4149.00	972.00	1700.00	604.00
12700	578797	5661545	NAD27	21	boulder	grab	dolostone-quartz veins with chalcocite and galena	EA 378-1715629, EA 378-1715740, EA-1817833	2.50	55.10	265.00	3230.00	402.00	1200.00	1709.00

Appendix 1: Sail Pond Rock Grab Sample List

Sample Number	UTM Easting	UTM Northing	Datum	Zone	Rock Sample Source	Sample Type	Summary Rock Description	Certificate(s) Reference	Au(ppb)	Ag(ppm)	As(ppm)	Cu(ppm)	Pb(ppm)	Sb(ppm)	Zn(ppm)
12701	578664	5661413	NAD27	21	subcrop	grab	dolostone breccia-quartz veins with chalcocite and galena	EA 378-1715629, EA 378-1715740, EA-1817833	66.00	211.90	509.00	12000.00	15200.00	4100.00	1618.00
12702	578935	5662354	NAD27	21	outcrop	grab	dolostone breccia-quartz veins with chalcocite and galena	EA 378-1715629, EA 378-1715740	2.50	0.20	13.00	24.00	29.00	1.50	11.00
12703	578890	5662391	NAD27	21	outcrop	grab	dolostone breccia-quartz veins with chalcocite, galena and sphalerite	EA 378-1715629, EA 378-1715740, EA-1817833	16.00	56.90	150.00	2925.00	2200.00	1300.00	2600.00
12704	577639	5659541	NAD27	21	outcrop	grab	dolostone-quartz veins with chalcocite and galena	EA 378-1715629, EA 378-1715740, EA-1817833	2.50	4.60	9.00	33.00	2800.00	21.00	14.00
12705	578872	5662374	NAD27	21	outcrop	grab	dolostone breccia-quartz veins with chalcocite, galena and sphalerite	EA 378-1715629, EA 378-1715740, EA-1817833	13.00	51.00	145.00	2122.00	1653.00	406.00	381.00
12706	577633	5659540	NAD27	21	outcrop	grab	dolostone-quartz/calcite veins with chalcocite, malachite and galena	EA 378-1715629, EA 378-1715740	2.50	2.90	2.50	9.00	2900.00	9.00	148.00
12707	577649	5659543	NAD27	21	outcrop	grab	dolostone-quartz/calcite veins with galena	EA 378-1715629, EA 378-1715740	5.00	41.30	8.00	20.00	17700.00	34.00	28300.00
12708	577839	5660085	NAD27	21	subcrop	grab	dolostone-quartz vein with chalcocite and galena	EA 378-1715629, EA 378-1715740	2.50	29.20	17.00	1197.00	51.00	173.00	377.00
12709	577891	5660204	NAD27	21	outcrop	grab	dolostone-quartz/calcite veins with chalcocite and galena	EA 378-1715629, EA 378-1715740	17.00	26.90	346.00	920.00	15500.00	1400.00	207.00
12710	577984	5660707	NAD27	21	outcrop	grab	dolostone breccia-quartz/calcite veining with chalcocite	EA 378-1715629, EA 378-1715740	6.00	13.10	74.00	681.00	64.00	106.00	140.00
12711	577976	5660685	NAD27	21	outcrop	grab	dolostone-quartz/calcite veins with galena	EA 378-1715629, EA 378-1715740	2.50	0.50	8.00	8.00	673.00	1.50	16.00
12712	577934	5660582	NAD27	21	boulder	grab	dolostone-quartz breccia with chalcocite and malachite	EA 378-1715629, EA 378-1715740	2.50	18.80	48.00	532.00	4200.00	52.00	88.00
12713	577898	5660514	NAD27	21	boulder	grab	quartz vein with chalcocite and malachite	EA 378-1715629, EA 378-1715740, EA-1817833	21.00	111.10	1001.00	8106.00	2400.00	2200.00	1416.00
12714	578069	5660847	NAD27	21	outcrop	grab	dolostone-quartz/calcite veins with chalcocite, malachite and galena	EA 378-1715629, EA 378-1715740	2.50	18.90	54.00	829.00	113.00	139.00	159.00
12715	578122	5660901	NAD27	21	outcrop	grab	dolostone-quartz/calcite veins with chalcocite and malachite	EA 378-1715629, EA 378-1715740, EA-1817833	17.00	84.70	629.00	5728.00	1729.00	1600.00	1040.00
12716	579030	5662722	NAD27	21	boulder	grab	dolostone-quartz veins with galena and pyrite	EA 378-1716568, EA 378-1716568	2.50	2.80	8.00	59.00	331.00	14.00	49.00
12721	578882	5662505	NAD27	21	outcrop	grab	dolostone breccia-quartz veining with galena and chalcocite	EA 378-1716068, EA 378-1716230, EA-1817833	11.00	120.10	176.00	4383.00	3900.00	1100.00	4600.00
12722	575049	5652402	NAD27	21	outcrop	grab	quartz vein with galena and malachite	EA 378-1716389, EA 378-1716584	2.50	13.80	42.00	642.00	540.00	132.00	9300.00
12740	578846	5662301	NAD27	21	outcrop	grab	dolostone-quartz vein with chalcocite, galena and sphalerite	EA 378-1717355, EA 378-1717355 AS, EA-1817833	55.00	290.70	1001.00	8979.00	626.00	1500.00	1559.00
12741	578829	5662294	NAD27	21	outcrop	grab	dolostone-quartz vein with chalcocite and galena	EA 378-1717355, EA 378-1717355 AS, EA-1817833	109.00	568.60	1001.00	26700.00	16600.00	6700.00	19500.00
12742	578809	5662291	NAD27	21	outcrop	grab	quartz vein with Fe-carbonate	EA 378-1717355, EA 378-1717355 AS	2.50	2.60	26.00	93.00	78.00	32.00	66.00
12743	578598	5662291	NAD27	21	outcrop	grab	dolostone-quartz vein with chalcocite and galena	EA 378-1717355, EA 378-1717355 AS	2.50	21.70	18.00	604.00	193.00	158.00	142.00
12744	578741	5662294	NAD27	21	outcrop	grab	quartz vein with chalcocite	EA 378-1717355, EA 378-1717355 AS, EA-1817833	173.00	803.20	919.00	35800.00	1146.00	9200.00	10400.00
12745	578542	5661595	NAD27	21	outcrop	grab	limestone breccia-quartz veins with chalcocite and pyrite	EA 378-1717355, EA 378-1717355 AS	5.00	14.40	26.00	558.00	25.00	121.00	114.00
12746	577543	5659530	NAD27	21	outcrop	grab	quartz vein with galena	EA 378-1717355, EA 378-1717355 AS	2.50	30.10	<5	16.00	19900.00	20.00	8.00
12747	578653	5661679	NAD27	21	outcrop	grab	quartz vein with galena and chalcocite	EA 378-1717355, EA 378-1717355 AS, EA-1817833	132.00	359.20	1001.00	29300.00	11200.00	4900.00	5200.00
12748	578658	5661686	NAD27	21	outcrop	grab	quartz vein with galena and chalcocite	EA 378-1717355, EA 378-1717355 AS, EA 378-1817832, EA-1817833	83.00	176.10	513.00	13500.00	2800.00	3000.00	2800.00
12749	578655	5661690	NAD27	21	outcrop	grab	quartz vein with galena and chalcocite	EA 378-1717355, EA 378-1717355 AS, EA-1817833	29.00	72.70	309.00	3476.00	3600.00	900.00	1398.00
12750	578649	5661617	NAD27	21	outcrop	grab	siltstone with pyrite	EA 378-1717355, EA 378-1717355 AS	2.50	0.50	13.00	32.00	12.00	3.00	28.00
12751	578635	5661673	NAD27	21	outcrop	grab	quartz vein with galena and chalcocite	EA 378-1717355, EA 378-1717355 AS	10.00	19.90	27.00	781.00	180.00	174.00	297.00
12753	577610	5659365	NAD27	21	outcrop	grab	quartz vein with chalcocite and malachite	EA 378-1717355, EA 378-1717355 AS, EA-1817833	2.50	349.60	1001.00	25600.00	4200.00	4500.00	21300.00
12754	575005	5652107	NAD27	21	outcrop	grab	quartz vein in shale	EA 378-1717355, EA 378-1717355 AS	9.00	0.40	9.00	36.00	34.00	12.00	80.00
12755	578674	5662487	NAD27	21	subcrop	grab	dolostone-quartz vein with chalcocite, malachite and galena	EA 378-1717355, EA 378-1717355 AS, EA-1817833	2.50	75.70	388.00	2167.00	7900.00	700.00	2700.00
12756	578819	5662491	NAD27	21	outcrop	grab	dolostone with quartz-carbonate veining	EA 378-1717355, EA 378-1717355 AS	2.50	0.10	9.00	8.00	18.00	4.00	21.00
12804	578710	5661578	NAD27	21	subcrop	grab	dolomite-quartz vein with galena and chalcocite	EA 378-1716389, EA 378-1716584, EA-1817833	28.00	156.90	594.00	6833.00	7800.00	2300.00	1278.00

## Appendix 1: Sail Pond Rock Grab Sample List

Sample Number	UTM Easting	UTM Northing	Datum	Zone	Rock Sample Source	Sample Type	Summary Rock Description	Certificate(s) Reference	Au(ppb)	Ag(ppm)	As(ppm)	Cu(ppm)	Pb(ppm)	Sb(ppm)	Zn(ppm)
12805	578417	5661231	NAD27	21	boulder	grab	dolostone with minor galena	EA 378-1716389, EA 378-1716584	2.50	16.40	16.00	339.00	9800.00	107.00	79.00
12806	578646	5661193	NAD27	21	outcrop	grab	quartz vein with azurite and malachite	EA 378-1716389, EA 378-1716584, EA-1817833	177.00	677.10	1001.00	39000.00	5900.00	8900.00	8800.00
12807	578226	5659219	NAD27	21	boulder	grab	dolostone with chalcocite and galena	EA 378-1716389, EA 378-1716584, EA-1817833	139.00	303.10	536.00	7950.00	7600.00	2800.00	8900.00
12808	577278	5659225	NAD27	21	outcrop	grab	quartz vein with azurite and malachite	EA 378-1716568, EA 378-1716568, EA-1817833	93.00	430.00	1001.00	11000.00	17100.00	3600.00	6000.00
13418	575128	5652532	NAD27	21	boulder	grab	dolostone-quartz breccia with chalcocite, galena and sphalerite	EA 378-1716068, EA 378-1716230, EA-1817833	58.00	148.40	405.00	4948.00	8500.00	1500.00	4300.00
13419	579159	5662892	NAD27	21	outcrop	grab	dolostone with malachite, chalcocite, galena and sphalerite	EA 378-1716568, EA 378-1716568, EA-1817833	22.00	107.30	139.00	3230.00	6600.00	1400.00	1338.00
13420	579154	5662893	NAD27	21	outcrop	grab	dolostone	EA 378-1716568, EA 378-1716568, EA-1817833	43.00	473.00	1001.00	12700.00	1367.00	3200.00	5400.00
13421	579192	5662890	NAD27	21	outcrop	grab	dolostone with pyrite	EA 378-1716568, EA 378-1716568	2.50	2.20	0.25	70.00	16.00	15.00	29.00
13422	578060	5660770	NAD27	21	subcrop	grab	dolostone-quartz veins with galean and chalcocite	EA 378-1717355, EA 378-1717355 AS	2.50	25.30	31.00	1072.00	568.00	295.00	235.00
13423	577940	5660325	NAD27	21	outcrop	grab	dolostone	EA 378-1717355, EA 378-1717355 AS	2.50	0.40	7.00	16.00	82.00	6.00	57.00
13424	577980	5660323	NAD27	21	outcrop	grab	dolostone-calcite veins with pyrite	EA 378-1717355, EA 378-1717355 AS	2.50	0.20	14.00	5.00	7.00	1.50	13.00
13437	578060	5660770	NAD27	21	subcrop	grab	dolostone-quartz veins with galean and chalcocite	EA 378-1717355, EA 378-1717355 AS	2.50	19.50	26.00	758.00	10.00	221.00	187.00
13438	575081	5652308	NAD27	21	outcrop	grab	dolostone with pyrite, chalcocite	EA 378-1716568, EA 378-1716568	13.00	34.80	117.00	1865.00	756.00	289.00	485.00
13439	575403	5652356	NAD27	21	outcrop	grab	quartz vein with chalcocite, galena, sphalerite, malachite and azurite	EA 378-1716568, EA 378-1716568, EA-1817833	32.00	214.50	1001.00	8306.00	5700.00	2600.00	11400.00
13440	575124	5652362	NAD27	21	outcrop	grab	dolostone-quartz vein with chalcocite, galena, sphalerite, malachite and azurite	EA 378-1716568, EA 378-1716568, EA-1817833	33.00	190.30	437.00	5013.00	19100.00	2300.00	2300.00



**Au / ICP Geochemistry Certificate**

Client: Altius Resources  
 Geologist: Roderick Smith  
 Project: NL Genex  
 Sample: Rock



Signed by:

DskFile: 378-1614094

DateIn: November 23, 2016  
 DateOut: December 13, 2016

Email: info@easternanalytical.ca  
 P.O. Box 187  
 403 Little Bay Road Springdale, NL A0J 1T0  
 Phone: 709-673-3909 / Fax: 709-673-3408

Results apply to samples as submitted.  
 Concentrations in assay range may cause interferences in associated elements.

Sample Number	* Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe %	In ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	S %	Sb ppm	Se ppm	Sn ppm	Sr ppm	Ti %	U ppm	V ppm	W ppm	Zn ppm	Zr ppm	
BLANK - AU	<5																																			
STD GS - P6	633																																			
BLANK																																				
STD-OREAS-45e																																				
8329	304	>6.0	0.15	>1000	14	<0.5	<2	7.87	448.2	3	31	162	>10000	0.69	4	0.08	1	5.16	55	2	0.02	9	0.05	>2200	5.16	>440	38	<10	<10	<2	298	<10	<10	<10	<10	
8330	15	>6.0	0.78	480	43	<0.5	<2	13.96	159.0	5	3	94	4301	0.50	2	0.44	2	8.49	89	1	0.02	6	0.01	>2200	0.46	>440	<10	<10	6	18	<10	>2200	>2200	8		
8331	28	>6.0	0.21	>1000	15	<0.5	<2	16.62	246.4	5	3	15	4867	0.39	3	0.12	2	>10.00	121	<1	0.02	5	0.01	>2200	0.19	>440	<10	<10	5	7	<10	>2200	>2200	2		
8332	55	>6.0	0.65	>1000	43	<0.5	<2	11.56	371.1	5	11	87	>10000	0.59	<2	0.01	<1	0.68	84	3	0.02	7	0.02	>2200	2.01	>440	<10	<10	8	14	<10	>2200	>2200	6		
8333	530	>6.0	0.03	548	5	<0.5	<2	1.20	450.9	<2	16	290	>10000	0.43	<2	0.05	<1	0.68	24	3	0.02	7	0.02	>2200	3.50	>440	20	<10	3	2	<10	>2200	>2200	1		
8334	6	2.2	0.05	18	<5	<0.5	<2	>20.00	1.5	2	<2	<5	67	0.03	<2	0.05	<1	1.80	9	<1	0.01	<1	<0.01	232	0.02	25	15	<10	6	2	<10	97	1			
8335	<5	>6.0	0.19	71	18	<0.5	<2	15.56	5.5	3	<2	70	872	0.19	<2	0.11	1	9.88	51	<1	0.02	5	<0.01	240	0.05	<10	<10	6	6	<10	159	2				
8336	8	>6.0	0.07	518	8	<0.5	<2	10.54	31.8	3	<2	170	5565	0.29	3	0.04	1	7.07	70	1	0.02	4	0.01	>2200	0.19	>440	<10	<10	6	5	<10	1020	1			
8337	103	>6.0	0.03	>1000	5	<0.5	<2	4.60	107.4	2	<2	256	>10000	0.53	3	0.02	<1	2.66	44	<1	0.02	4	0.03	>2200	1.46	>440	29	<10	4	3	28	>2200	1			

Assay Certificate

Client: Altius Resources  
Geologist: Roderick Smith  
Project: NL Genex  
Sample: Rock



Signed by: 

DskFile: 378-1614277

Results apply to samples as submitted.

DateIn: November 23, 2016

DateOut: December 13, 2016

Email: info@easternanalytical.ca  
P.O. Box 187

403 Little Bay Road Springdale, NL A0J 1T0

Phone: 709-673-3909 / Fax: 709-673-3408

**ISO 17025**

\* Accredited Procedures

SAMPLE NUMBER	* Cu %	* Pb %	* Zn %	* Ag g/t
BLANK	0.01	0.01	0.01	0.1
STD FCM - 6	1.28	1.56	9.50	158.9
STD ME - 1201	1.61	0.47	4.96	37.0
8329	5.24	7.60	2.32	390.0
8330	---	0.84	1.02	114.2
8331	---	0.38	1.29	139.1
8332	2.18	4.44	2.20	421.0
8333	2.33	4.23	3.08	557.0
8335	---	---	---	30.3
8336	---	0.30	---	127.4
8337	3.35	0.84	0.5	516.0

**Au / ICP Geochemistry Certificate**

Client: Altius Resources Inc.  
 Geologist: Roderick Smith  
 Project: Sail Pond Project  
 Sample: Rock



DskFile: 378-1715629

DateIn: July 05, 2017  
 DateOut: July 24, 2017

Email: info@easternanalytical.ca  
 P.O. Box 187  
 403 Little Bay Road Springdale, NL A0J 1T0  
 Phone: 709-673-3909 / Fax: 709-673-3408

Signed by:

Results apply to samples as submitted.

Concentrations in assay range may cause interferences in associated elements.

Sample Number	* Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe %	In ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	S %	Sb ppm	Se ppm	Sn ppm	Sr ppm	Ti %	U ppm	V ppm	W ppm	Zn ppm	Zr ppm			
BLANK - AU	<5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
STD GS - P6	652	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
BLANK	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
STD-OREAS-923	<5	1.7	7.39	8	424	2.6	<2	0.48	<0.5	79	22	69	4404	6.45	<2	2.48	37	1.71	948	1	0.33	35	0.06	76	0.71	<3	<10	<1	<0.01	<2	4	91	<10	<5	<1	<10	<5	
10511	<5	<0.2	0.06	10	11	<0.5	<2	16.66	<0.5	5	<2	12	31	0.12	5	0.03	1	9.93	25	1	0.02	4	<0.01	3	0.01	<3	<10	10	151	<0.01	5	3	<10	8	1	1		
10511 DUP-P	<5	<0.2	0.06	11	9	<0.5	<2	16.76	<0.5	5	<2	12	32	0.12	4	0.03	1	>10.00	25	1	0.02	3	<0.01	4	0.02	<3	<10	<10	151	<0.01	4	3	<10	6	1	1		
10512	<5	<0.2	0.08	6	19	<0.5	<2	20.00	<0.5	4	<2	<5	9	0.05	6	0.03	1	6.00	17	1	0.03	6	<0.01	3	0.01	<3	<10	<10	184	<0.01	5	2	<10	6	1	1		
10513	<5	<0.2	0.90	<5	53	<0.5	<2	>20.00	<0.5	29	<2	15	5	0.60	<2	0.15	13	0.71	163	2	0.50	6	0.02	6	0.01	<3	<10	<10	707	0.02	3	5	<10	65	8	2		
10514	28	>6.0	0.14	22	22	<0.5	<2	15.94	71.4	7	3	6	372	0.28	5	0.07	2	>10.00	81	2	0.01	5	<0.01	400	0.04	66	<10	<10	203	<0.01	4	5	<10	>2200	2	8		
10515	12	0.2	0.71	11	31	<0.5	3	15.82	7.9	13	3	13	14	0.56	<2	0.39	4	>10.00	132	4	0.01	6	<0.01	215	0.06	<3	<10	<10	192	0.02	4	13	<10	390	7	7		
10516	114	>6.0	0.39	>1000	32	<0.5	<2	11.13	178.7	7	4	74	9249	0.61	2	0.21	2	8.06	117	7	0.01	11	0.01	>2200	0.92	>440	<10	<10	145	0.01	6	13	<10	>2200	5	5		
10517	137	>6.0	0.20	127	15	<0.5	<2	5.26	38.8	4	4	123	5601	0.49	4	0.10	1	2.87	87	2	0.01	8	0.01	>2200	0.52	>440	<10	<10	96	0.01	5	8	<10	1504	7	7		
10518	145	>6.0	0.14	>1000	67	<0.5	<2	11.89	293.1	6	17	52	>10000	0.56	6	0.07	2	8.21	88	1	0.01	10	0.03	>2200	2.57	>440	24	<10	126	0.01	6	6	<10	>2200	2	2		
10519	121	>6.0	0.31	>1000	29	<0.5	<2	11.41	610.3	6	20	38	>10000	0.57	2	0.17	2	8.36	102	1	0.01	9	0.02	>2200	1.51	>440	11	<10	134	0.01	5	11	<10	>2200	3	3		
10520	45	>6.0	0.23	987	20	<0.5	<2	11.69	350.1	6	14	40	>10000	0.44	5	0.13	2	8.46	84	1	0.01	6	0.01	>2200	1.38	>440	13	<10	150	0.01	5	6	<10	>2200	3	3		
7716	<5	0.3	0.02	7	<5	<0.5	<2	>20.00	0.7	4	<2	<5	18	0.03	5	0.01	1	0.13	13	1	0.01	2	<0.01	22	0.01	<3	16	<10	144	<0.01	4	1	<10	7	1	1		
10528	<5	1.8	6.97	22	170	1.1	<2	5.01	1.6	60	19	44	69	9.11	3	0.26	24	3.22	1706	1	2.32	15	0.78	39	0.23	<3	<10	<10	282	1.90	7	184	<10	179	124	124		
10228 DUP-C	<5	1.9	6.92	19	169	1.0	<2	4.97	1.4	60	18	49	77	9.02	3	0.26	24	3.21	1715	1	2.29	16	0.82	57	0.25	<3	<10	<10	280	1.99	7	185	<10	201	133	133		
10529	67	>6.0	0.80	53	48	<0.5	<2	0.09	1.1	6	339	145	>10000	>10.00	7	0.19	4	0.08	50	<1	0.34	567	0.03	50	>20.00	<3	54	19	11	0.03	14	10	<10	815	10	10		
10530	<5	0.4	2.06	<5	108	<0.5	<2	1.32	<0.5	18	4	146	2093	1.43	<2	0.47	9	0.70	470	2	0.97	13	0.01	20	0.24	<3	<10	<10	52	0.09	2	16	<10	41	31	31		
10531	<5	0.2	0.05	14	8	<0.5	<2	4.12	<0.5	3	3	125	323	1.34	3	0.02	1	2.67	98	4	0.01	7	<0.01	17	0.62	<3	<10	46	<0.01	5	4	<10	17	1	1			
10532	<5	0.3	0.14	<5	13	<0.5	<2	0.04	<0.5	<2	3	116	26	0.66	<2	0.08	<1	0.03	39	2	0.01	10	<0.01	15	0.01	<3	<10	1	0.01	4	4	<10	15	3	3			
10533	<5	>6.0	0.02	<5	10	<0.5	<2	0.08	1.9	<2	2	102	72	0.47	<2	0.01	<1	0.04	42	2	0.01	8	<0.01	>2200	0.24	15	32	2	<0.01	<2	2	<10	19	<1	<1			
10534	<5	>6.0	0.01	<5	5	<0.5	<2	0.05	86.5	<2	2	76	19	0.51	2	0.01	<1	0.03	39	1	0.01	8	<0.01	>2200	0.52	6	<10	2	<0.01	<2	2	<10	>2200	<1	<1			
12501	<5	<0.2	0.02	8	<5	<0.5	<2	0.02	<0.5	<2	<2	93	14	0.46	<2	<0.01	<1	0.01	72	2	0.02	9	<0.01	16	0.01	<3	<10	2	<0.01	<2	2	<10	13	<1	<1			
12502	10	>6.0	0.18	75	19	<0.5	<2	11.21	183.3	5	5	47	930	0.35	<2	0.09	1	7.28	94	2	0.01	7	0.01	>2200	0.78	182	10	114	0.01	6	7	<10	>2200	2	2			
12503	25	>6.0	0.03	568	6	<0.5	<2	1.28	35.8	2	3	109	3346	0.47	4	0.02	<1	0.80	83	1	0.01	8	<0.01	>2200	0.27	>440	<10	16	<0.01	3	2	<10	1785	1	1			
12503 DUP-P	24	>6.0	0.04	548	8	<0.5	<2	1.30	35.0	2	3	105	3320	0.47	2	0.02	<1	0.79	83	1	0.01	7	<0.01	>2200	0.27	>440	<10	16	<0.01	2	2	<10	1779	1	1			
7715	8	0.9	8.47	21	495	4.3	2	0.88	0.7	98	14	41	171	4.14	5	2.33	42	1.12	759	12	1.71	34	0.07	36	0.04	<3	<10	134	0.51	5	83	<10	124	137	137			
12504	11	>6.0	0.12	419	12	<0.5	<2	5.73	33.6	4	4	76	5057	0.42	4	0.07	1	3.93	94	1	0.01	9	<0.01	>2200	0.11	311	<10	75	<0.01	4	3	<10	2006	1	1			
12505	35	>6.0	0.19	>1000	16	<0.5	<2	6.77	170.4	4	7	87	8447	0.51	2	0.11	1	4.88	100	1	0.01	9	0.01	932	0.51	>440	<10	81	0.01	5	4	<10	>2200	3	3			
12506	8	>6.0	0.55	83	28	<0.5	<2	9.77	19.5	7	3	65	1618	0.60	4	0.28	2	7.45	124	1	0.01	5	0.01	>2200	0.18	330	<10	142	0.02	4	7	<10	922	7	7			
12507	61	>6.0	0.25	856	16	<0.5	<2	6.37	204.4	5	12	108	6863	0.73	3	0.13	1	4.93	77	2	0.01	9	0.01	>2200	0.88	>440	13	87	0.03	6	5	<10	>2200	13	13			
12508	22	>6.0	0.60	599	26	<0.5	<2	14.04	152.0	9	8	23	5844	0.46	3	0.31	3	9.94	122	<1	0.01	6	0.02	>2200	0.67	>440	17	172	0.02	4	9	<10	>2200	8	8			
12509	10	>6.0	0.40	11	25	<0.5	<2	15.03	60.1	7	3	11	31	0.33	3	0.21	2	>10.00	76	1	0.01	8																

Au / ICP Geochemistry Certificate

Client: Altius Resources Inc.  
Geologist: Roderick Smith  
Project: Sail Pond Project  
Sample: Rock

DskFile: 378-1715629

DateIn: July 05, 2017  
DateOut: July 24, 2017

Email: info@easternanalytical.ca  
P.O. Box 187  
403 Little Bay Road Springdale, NL A0J 1T0  
Phone: 709-673-3909 / Fax: 709-673-3408



Signed by: [Signature]

Results apply to samples as submitted.

Concentrations in assay range may cause interferences in associated elements.

Table with columns: Sample Number, \*Au ppb, Ag ppm, Al %, As ppm, Ba ppm, Be ppm, Bi ppm, Ca %, Cd ppm, Ce ppm, Co ppm, Cr ppm, Cu ppm, Fe %, In ppm, K %, La ppm, Mg %, Mn ppm, Mo ppm, Na %, Ni ppm, P %, Pb ppm, S %, Sb ppm, Se ppm, Sn ppm, Sr ppm, Ti %, U ppm, V ppm, W ppm, Zn ppm, Zr ppm. Rows include sample numbers 12516-12548 and STD OREAS samples.

**Au / ICP Geochemistry Certificate**

Client: Altius Resources Inc.  
 Geologist: Roderick Smith  
 Project: Sail Pond Project  
 Sample: Rock



DskFile: 378-1715629

DateIn: July 05, 2017  
 DateOut: July 24, 2017

Email: info@easternanalytical.ca  
 P.O. Box 187  
 403 Little Bay Road Springdale, NL A0J 1T0  
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Signed by:

Results apply to samples as submitted.

Concentrations in assay range may cause interferences in associated elements.

Sample Number	* Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe %	In ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	S %	Sb ppm	Se ppm	Sn ppm	Sr ppm	Ti %	U ppm	V ppm	W ppm	Zn ppm	Zr ppm	
12566	<5	0.5	5.98	<5	657	1.3	<2	0.74	<0.5	57	6	143	12	3.18	<2	1.22	28	0.46	515	1	2.69	12	0.06	16	0.01	5	<10	115	0.49	2	53	<10	50	100		
12567	<5	<0.2	0.98	<5	90	<0.5	3	15.48	<0.5	12	<2	16	5	0.59	<2	0.93	5	8.92	88	2	0.02	2	0.01	8	0.08	9	<10	154	0.03	2	9	<10	9	12		
12567 DUP-C	<5	<0.2	1.01	<5	91	<0.5	2	16.01	<0.5	13	<2	13	6	0.57	<2	0.98	5	9.01	87	1	0.02	4	0.01	6	0.08	7	<10	157	0.04	2	9	<10	9	12		
12568	10	>6.0	0.67	84	60	<0.5	<2	0.53	40.2	<2	<2	142	3436	0.54	2	0.42	<1	0.22	29	1	0.02	9	0.01	>2200	>440	<10	8	0.03	<2	10	<10	>2200	7	8		
12606	141	>6.0	0.61	>1000	35	<0.5	<2	13.69	207.6	9	19	36	>10000	0.48	3	0.34	3	8.39	87	1	0.01	8	0.01	>2200	1.49	>440	<10	166	0.02	4	9	<10	>2200	8		
12607	<5	>6.0	0.36	21	23	<0.5	2	11.45	21.1	8	3	48	649	0.51	<2	0.18	2	7.32	113	1	0.01	5	0.01	651	0.06	154	<10	171	0.01	3	6	<10	1170	3		
7722	<5	<0.2	0.23	<5	<5	<0.5	<2	>20.00	<0.5	7	<2	5	9	0.05	2	0.03	1	0.15	15	<1	0.01	3	<0.01	6	<3	14	<10	141	<0.01	4	2	<10	11	1		
12608	<5	<0.2	0.23	<5	29	<0.5	2	6.07	0.6	6	<2	69	10	0.39	3	0.12	2	3.47	42	1	0.02	4	<0.01	10	<10	10	72	<0.01	3	3	<10	14	2	2		
12609	5	>6.0	0.45	107	32	<0.5	<2	2.96	18.4	5	2	144	970	0.70	<2	0.24	1	1.87	268	1	0.01	8	0.01	1754	0.18	218	<10	54	0.02	2	7	<10	1104	7		
12610	<5	>6.0	0.03	165	10	<0.5	2	1.28	30.6	2	<2	142	1919	0.41	2	0.01	1	0.24	36	1	0.01	5	0.01	>2200	0.17	317	<10	17	<0.01	<2	2	<10	>2200	1		
BLANK - AU	<5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
STD GS - P6	631	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
BLANK	---	<0.2	<0.01	<5	<5	<0.5	<2	<0.01	<0.5	<2	<2	<5	<5	<0.01	<2	<0.01	<1	<0.01	<1	<1	0.01	<1	<0.01	<2	0.01	<3	<10	<1	<0.01	<2	<1	<10	<5	<1		
STD-OREAS-45D	---	0.3	7.97	16	176	0.8	<2	0.19	0.5	36	28	509	401	>10.00	<2	0.41	15	0.25	482	3	0.10	221	0.04	24	0.05	<3	<10	29	0.79	3	234	<10	49	139		
12611	6	0.3	0.67	<5	41	<0.5	2	16.01	<0.5	10	2	15	20	0.52	2	0.32	4	>10.00	91	3	0.02	4	0.01	13	0.02	11	<10	176	0.02	5	9	<10	18	7		
12612	<5	>6.0	0.38	26	34	<0.5	<2	12.83	20.9	7	2	39	1092	0.29	<2	0.21	2	8.34	83	1	0.01	6	<0.01	850	0.12	260	<10	135	0.01	4	11	<10	1042	3		
12613	<5	>6.0	0.04	287	7	<0.5	<2	1.06	30.4	<2	<2	119	4101	0.45	<2	0.02	<1	0.67	39	2	0.01	8	<0.01	14	0.37	>440	<10	12	<0.01	2	2	<10	1213	<1		
12614	<5	0.8	6.11	<5	824	1.8	<2	0.78	<0.5	64	7	147	19	3.32	<2	2.38	29	0.77	1048	<1	1.65	17	0.05	17	0.07	<3	<10	86	0.52	2	58	<10	66	119		
12614 DUP-P	<5	0.9	6.12	<5	831	1.8	<2	0.54	5.9	62	8	156	22	3.36	<2	2.46	28	0.77	1065	<1	1.70	19	0.05	19	0.07	<3	<10	88	0.52	2	59	<10	68	120		
12640	13	>6.0	0.02	48	5	<0.5	<2	1.09	2.2	<2	<2	118	6270	0.41	<2	0.01	<1	0.24	39	1	0.01	5	<0.01	418	0.01	6	<10	4	<0.01	<2	2	<10	142	<1		
12641	<5	>6.0	0.03	39	8	<0.5	<2	7.80	21.8	4	<2	61	2368	0.27	<2	0.01	1	5.29	88	<1	0.02	8	<0.01	1309	0.07	158	<10	80	<0.01	5	4	<10	1511	1		
12642	5	0.4	2.91	12	296	1.0	<2	1.15	2.1	43	10	41	33	3.15	<2	0.70	23	0.56	504	2	0.63	34	0.14	88	1.14	4	<10	112	0.18	26	48	<10	177	53		
7721	15	>6.0	0.02	11	6	<0.5	<2	6.55	1.4	4	<2	93	65	0.28	4	0.01	1	4.44	55	1	0.01	7	<0.01	>2200	0.10	21	<10	64	<0.01	4	3	<10	14	1		
12644	<5	>6.0	0.17	51	13	<0.5	<2	5.11	13.6	4	<2	92	1716	0.39	<2	0.09	1	3.45	51	2	0.01	7	<0.01	1940	0.15	394	<10	51	<0.01	3	3	<10	559	2		
12645	54	>6.0	0.04	207	<5	<0.5	2	1.67	29.7	3	<2	123	3725	0.45	<2	0.02	<1	1.09	36	1	0.01	5	<0.01	>2200	0.37	>440	<10	15	<0.01	2	3	<10	1548	1		
12646	12	>6.0	0.08	112	10	<0.5	2	3.28	23.7	2	<2	101	4444	0.40	<2	0.05	1	1.99	43	2	0.01	7	<0.01	415	0.34	>440	<10	30	<0.01	2	3	<10	1000	1		
12647	5	>6.0	0.04	24	14	<0.5	2	3.85	4.8	3	<2	61	1186	0.34	4	0.01	<1	2.63	43	1	0.01	5	<0.01	791	0.05	108	<10	33	<0.01	4	3	<10	124	1		
12648	42	>6.0	0.06	571	8	<0.5	2	3.70	48.0	3	<2	84	6559	0.40	3	0.03	1	2.33	42	1	0.01	5	<0.01	1377	0.35	>440	<10	41	<0.01	3	3	<10	1657	1		
12648 DUP-C	48	>6.0	0.07	570	8	<0.5	2	3.78	47.2	3	<2	82	6523	0.41	3	0.03	1	2.38	44	2	0.01	4	<0.01	1388	0.35	>440	<10	42	<0.01	3	3	<10	1674	1		
12649	<5	>6.0	0.04	<5	5	<0.5	2	2.81	1.8	3	<2	90	395	0.39	<2	0.01	<1	1.88	82	2	0.01	6	<0.01	57	0.03	65	<10	27	<0.01	2	3	<10	62	1		
12650	<5	>6.0	0.02	265	8	<0.5	4	0.83	16.5	<2	<2	108	2857	0.44	2	<0.01	<1	0.54	40	2	0.01	5	<0.01	>2200	0.21	>440	<10	9	<0.01	<2	2	<10	359	1		
12651	130	>6.0	0.12	808	23	<0.5	2	8.30	114.1	5	2	81	>10000	0.40	<2	0.06	1	5.00	59	2	0.01	6	0.01	1597	0.72	>440	<10	121	<0.01	4	6	<10	>2200	2		
12661	15	>6.0	0.20	173	16	<0.5	2	16.57	40.2	7	3	11	1681	0.38	4	0.11	2	>10.00	139	<1	0.01	4	0.01	>2200	0.15	245	<10	182	0.01	5	8	<10	1705	2		
7724	<5	0.2	0.02	<5	6	<0.5	3	>20.00	<0.5	6	<2	<5	9	0.02	<2	0.01	1	0.13	13	2	0.01	3	<0.01	7	0.01	4	<10	144	<0.01	5	1	<10	5	1		
12662	<5	1.2	2.81	9	62	<0.5	2	0.19	0.8	7	4	109	66	0.84	<2	0.14	3	0.12	2489	4	2.29	9	0.06	35	0.01	12	<10	36	0.03	<2	8	<10	51	9		
12663	<5	>6.0	0.17	<5	17	<0.5	2	16.66	41.6	7	2	10	148	0.28	5	0.09	2	>10.00	115	1	0.01	5	<0.01	>2200	0.21	23	&									



Au / ICP Geochemistry Certificate

Client: Altius Resources Inc.
Geologist: Roderick Smith
Project: Sail Pond Project
Sample: Rock

DskFile: 378-1715629

DateIn: July 05, 2017

DateOut: July 24, 2017



Email: info@easternanalytical.ca

P.O. Box 187

403 Little Bay Road Springdale, NL A0J 1T0

Phone: 709-673-3909 / Fax: 709-673-3408

Signed by: [Signature]

Results apply to samples as submitted.

Concentrations in assay range may cause interferences in associated elements.

Table with columns: Sample Number, Element (Au, Ag, Al, As, Ba, Be, Bi, Ca, Cd, Ce, Co, Cr, Cu, Fe, In, K, La, Mg, Mn, Mo, Na, Ni, P, Pb, S, Sb, Se, Sn, Sr, Ti, U, V, W, Zn, Zr), and units (ppb, ppm, %). Rows include BLANK - AU, STD OREAS 202, BLANK, STD-OREAS-45e, 12669, 12670, 12671, 7723, 12672, 12673, 12674, 12675, 12675 DUP-C, 12676, 12677, 12678, 12679, 12680, 12681, 12682, 7726, 12684 DUP - P, 12683, 12684, 12685, 12694, 12695, 12696, 12697, 12698, 12699, 7725, 12700, 12701, 12702, 12702 DUP - C, 12703, 12704, 12705, 12706, 12707, 12708, 12709.

**Au / ICP Geochemistry Certificate**

Client: Altius Resources Inc.  
 Geologist: Roderick Smith  
 Project: Sail Pond Project  
 Sample: Rock

DskFile: 378-1715629

DateIn: July 05, 2017

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Phone: 709-673-3909 / Fax: 709-673-3408

Signed by:

Results apply to samples as submitted.

Concentrations in assay range may cause interferences in associated elements.

Sample Number	* Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe %	In ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	S %	Sb ppm	Se ppm	Sn ppm	Sr ppm	Ti %	U ppm	V ppm	W ppm	Zn ppm	Zr ppm		
12710	6	>6.0	0.14	74	32	<0.5	<2	7.68	4.6	6	2	94	681	0.49	3	0.08	2	4.78	406	1	0.01	7	<0.01	64	0.08	106	<10	11	81	<0.01	3	4	<10	140	2		
7728	<5	<0.2	0.03	10	<5	<0.5	<2	>20.00	<0.5	5	<2	8	<5	0.02	<2	0.01	1	0.13	13	1	0.01	2	<0.01	9	0.01	3	10	13	148	<0.01	4	1	<10	5	1		
12711	<5	0.5	0.24	8	21	<0.5	<2	6.39	<0.5	5	<2	114	8	0.52	3	0.14	1	3.96	146	1	0.01	3	<0.01	673	0.02	<3	<10	<10	67	<0.01	4	4	<10	16	2		
12711 DUP - P	<5	0.6	0.24	5	22	<0.5	<2	6.50	<0.5	5	<2	123	8	0.52	4	0.14	1	4.06	151	2	0.01	3	<0.01	690	0.03	<3	<10	<10	69	<0.01	3	4	<10	15	2		
BLANK - AU	<5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
STD GS - 9A	8930	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
BLANK	---	<0.2	<0.01	<5	<5	<0.5	<2	0.01	<0.5	<2	<2	<5	<5	<0.01	<2	<0.01	<1	<0.01	1	<1	0.01	<1	<0.01	<2	0.01	<3	<10	<10	<1	<0.01	<2	<1	<10	<5	<1		
STD-OREAS-923	---	1.7	7.28	8	411	2.7	19	0.48	0.5	81	21	75	4601	6.25	<2	2.54	39	1.70	934	<1	0.37	31	0.06	78	0.71	<3	<10	15	38	0.39	3	90	<10	347	108		
12712	<5	>6.0	0.13	48	19	<0.5	3	3.93	4.0	4	<2	122	532	0.42	3	0.08	1	2.35	84	2	0.01	5	<0.01	>2200	0.10	52	11	<10	39	<0.01	3	3	<10	88	2		
12713	21	>6.0	0.09	>1000	11	<0.5	<2	1.80	39.8	2	<2	149	8106	0.49	<2	0.05	1	0.99	181	2	0.01	4	0.01	>2200	0.59	>440	10	18	<0.01	3	3	<10	1416	2			
12714	<5	>6.0	0.26	54	18	<0.5	<2	6.06	4.6	5	<2	85	829	0.40	4	0.15	1	3.54	93	1	0.01	5	<0.01	113	0.08	139	12	<10	68	0.01	3	5	<10	159	4		
12715	17	>6.0	0.45	629	37	<0.5	<2	8.71	28.6	5	2	79	5728	0.35	<2	0.25	1	5.51	60	2	0.02	6	0.01	1729	0.44	>440	15	92	0.01	5	9	<10	1040	4			
7727	<5	0.9	8.51	20	478	4.0	<2	0.94	0.6	92	13	65	175	3.82	<2	2.55	40	1.09	728	11	1.95	31	0.07	32	0.05	5	<10	130	0.47	4	77	<10	119	130			

**Assay Certificate**

Client: Altius Resources Inc.  
 Geologist: Roderick Smith  
 Project: Sail Pond Project  
 Sample: Rock



Signed by: 

DskFile: 378-1715740

Results apply to samples as submitted.

DateIn: July 05, 2017

Email: info@easternanalytical.ca

DateOut: July 24, 2017

P.O. Box 187

403 Little Bay Road Springdale, NL A0J 1T0

**ISO 17025**

\* Accredited Procedures

SAMPLE NUMBER	* Cu %	* Pb %	* Zn %	* Ag g/t	Sb %
BLANK	<0.01	<0.01	<0.01	<0.1	0.01
STD ME 1201	1.52	0.45	4.98	35.6	---
STD CD - 1	---	---	---	---	3.54
10514	---	---	0.50	7.5	---
10516	---	6.30	0.67	264.0	0.21
10517	---	1.11	---	197.0	0.27
10518	4.46	3.19	1.40	453.0	1.04
10519	2.44	1.95	3.83	414.0	0.58
10520	1.28	0.56	2.14	256.0	0.33
10529	15.9	---	---	6.4	---
10533	---	1.31	---	20.9	---
10534	---	0.34	0.85	6.3	---
12502	---	0.73	1.37	23.2	---
12503	---	0.71	---	119.7	0.11
12503 DUP-P	---	0.71	---	121.2	0.11
12504	---	0.26	---	32.6	---
12505	---	---	0.91	208.0	0.25
12506	---	0.50	---	43.6	---
12507	---	0.32	1.52	181.1	0.20
12508	---	0.81	0.93	128.9	0.17
12509	---	2.12	0.48	17.0	---
12510	---	0.77	0.35	129.1	0.16
12511	---	1.15	---	7.9	---
12512	---	---	0.35	---	---
12513	---	0.36	1.50	64.5	0.10
12213 DUP-C	---	0.40	1.55	65.2	0.10
12514	---	---	0.39	7.8	---
12515	1.84	0.98	0.72	83.0	0.55
12519	---	0.59	0.44	7.6	---
12520	---	---	---	133.4	0.16
12521	---	---	---	166.7	0.18
12522	---	---	---	20.5	---
12522 DUP-P	---	---	---	20.5	---
12523	2.86	---	0.66	363.0	0.85
12524	---	0.61	---	90.9	---
12525	---	---	---	48.8	---

**Assay Certificate**

Client: Altius Resources Inc.  
 Geologist: Roderick Smith  
 Project: Sail Pond Project  
 Sample: Rock



Signed by: 

DskFile: 378-1715740

Results apply to samples as submitted.

DateIn: July 05, 2017

DateOut: July 24, 2017

Email: info@easternanalytical.ca  
 P.O. Box 187

403 Little Bay Road Springdale, NL A0J 1T0  
 Phone: 709-673-3909 / Fax: 709-673-3408

**ISO 17025**

\* Accredited Procedures

SAMPLE NUMBER	* Cu %	* Pb %	* Zn %	* Ag g/t	Sb %
12526	---	---	---	6.5	---
BLANK	<0.01	<0.01	<0.01	<0.1	---
STD ME 1201	1.55	0.46	5.00	35.0	---
12527	---	---	---	26.3	---
12528	---	0.51	0.90	184.6	0.24
12529	1.36	1.22	0.30	290.0	0.36
12530	---	0.71	0.51	190.0	0.28
12531	---	---	---	38.0	---
12531 DUP - C	---	---	---	37.3	---
12532	---	---	---	28.4	---
12533	---	---	---	96.7	0.16
12535	---	0.37	---	8.1	---
12536	---	---	---	26.6	---
12538	---	---	0.86	13.5	---
12539	---	0.30	---	110.2	---
12540	---	1.50	0.29	197.5	0.23
12568	---	0.23	0.31	74.3	0.10
12606	2.41	0.60	1.15	357.0	0.53
12607	---	---	---	18.9	---
12609	---	---	---	38.0	---
12610	---	0.36	0.30	66.8	---
12612	---	---	---	22.7	---
12613	---	---	---	123.8	0.12
12640	---	---	---	20.5	---
12641	---	---	---	106.5	---
12642	---	---	---	50.7	---
12643	---	0.70	---	13.4	---
12644	---	---	---	36.7	---
12645	---	0.25	---	97.8	0.13
12646	---	---	---	90.9	0.13
12647	---	---	---	15.5	---
12648	---	---	---	92.3	0.11
12648 DUP-C	---	---	---	92.0	0.11
12649	---	---	---	9.5	---
BLANK	<0.01	<0.01	<0.01	<0.1	0.01
STD ME - 1201	1.49	0.47	4.94	34.8	---

**Assay Certificate**

Client: Altius Resources Inc.  
 Geologist: Roderick Smith  
 Project: Sail Pond Project  
 Sample: Rock

DskFile: 378-1715740  
 DateIn: July 05, 2017  
 DateOut: July 24, 2017



Email: info@easternanalytical.ca  
 P.O. Box 187  
 403 Little Bay Road Springdale, NL A0J 1T0  
 Phone: 709-673-3909 / Fax: 709-673-3408

Signed by: 

Results apply to samples as submitted.

**ISO 17025**

\* Accredited Procedures

SAMPLE NUMBER	* Cu %	* Pb %	* Zn %	* Ag g/t	Sb %
STD CD-1					
12650	---	0.53	---	62.0	3.56
12651	---	---	0.60	235.0	0.07
12661	1.14	0.36	---	53.1	0.35
12663	---	0.72	0.33	8.6	---
12664	---	1.93	0.53	149.5	0.17
12665	---	0.68	---	77.2	0.12
12666	1.31	2.14	0.63	320.0	0.46
12666 DUP-P	1.29	2.16	0.63	315.0	0.46
12667	1.33	2.59	0.70	247.0	0.27
12668	---	0.74	---	85.7	0.09
12669	---	---	---	25.0	---
12672	---	0.35	0.57	---	---
12673	---	---	---	41.5	---
12674	---	0.45	---	105.3	0.18
12675	---	0.77	0.27	30.1	---
12675 DUP-C	---	0.76	0.26	31.0	---
12676	---	---	---	6.2	---
12683	7.76	---	---	---	---
12684	1.32	---	---	---	---
12684 DUP - P	1.33	---	---	---	---
12695	---	---	0.35	81.4	0.16
12696	---	0.54	0.54	9.5	---
12697	---	0.34	---	93.7	0.15
12698	---	---	---	117.9	0.21
12699	---	---	---	74.0	0.17
12700	---	---	---	64.3	0.12
12701	1.20	1.52	---	258.0	0.41
12703	---	---	0.26	59.8	0.13
12704	---	0.28	---	---	---
12705	---	---	---	57.6	---
12706	---	0.29	---	---	---
12707	---	1.77	2.83	41.3	---
12708	---	---	---	29.2	---
12709	---	1.55	---	26.9	0.14
12710	---	---	---	13.1	---



Assay Certificate

Client: Altius Resources Inc.  
Geologist: Roderick Smith  
Project: Sail Pond Project  
Sample: Rock



DskFile: 378-1715740  
DateIn: July 05, 2017  
DateOut: July 24, 2017

Email: info@easternanalytical.ca  
P.O. Box 187  
403 Little Bay Road Springdale, NL A0J 1T0  
Phone: 709-673-3909 / Fax: 709-673-3408

Signed by: 

Results apply to samples as submitted.

**ISO 17025**

\* Accredited Procedures

SAMPLE NUMBER	* Cu %	* Pb %	* Zn %	* Ag g/t	Sb %
12712	---	0.42	---	18.8	---
12713	---	0.24	---	151.9	0.22
12714	---	---	---	18.9	---
12715	---	---	---	97.3	0.16

**Au + ICP- 34 Certificate**

Client: Altius Resources Inc.  
 Geologist: Roderick Smith  
 Project: Sail Pond Project  
 Sample: Rock

DskFile: 378-1716068

DateIn: July 31, 2017  
 DateOut: August 18, 2017



Email: info@easternanalytical.ca  
 P.O. Box 187  
 403 Little Bay Road Springdale, NL A0J 1T0  
 Phone: 709-673-3909 / Fax: 709-673-3408

Signed by:

Results apply to samples as submitted.

Concentrations in assay range may cause interferences in associated elements.

Sample Number	* Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe %	In ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	S %	Sb ppm	Se ppm	Sn ppm	Sr ppm	Ti %	U ppm	V ppm	W ppm	Zn ppm	Zr ppm			
BLANK - AU	<5																																					
STD - OREAS 206	2303																																					
BLANK																																						
STD - OREAS 923																																						
12549		<5	1.5	7.60	6	582	1.6	<2	0.71	<0.5	75	8	148	22	3.84	<2	1.62	34	0.60	526	2	1.73	17	0.05	20	<10	<10	92	0.61	2	60	<10	66	155				
12550	9	>6.0	0.10	26	16	<0.5	<2	2.73	7.5	2	<2	130	635	0.50	<2	0.04	1	1.79	83	1	0.02	7	<0.01	83	0.10	139	<10	26	0.01	2	4	<10	421	2				
12551	7	>6.0	0.40	449	36	<0.5	<2	9.46	12.6	7	<2	72	2102	0.50	<2	0.20	2	6.02	544	1	0.02	7	<0.01	>2200	0.15	301	<10	110	0.01	3	6	<10	251	3				
12552	<5	<0.2	6.65	13	440	1.5	<2	0.45	<0.5	40	23	168	35	5.31	<2	1.55	16	2.16	3474	2	1.62	58	0.08	21	0.19	<3	<10	28	0.67	3	120	<10	95	84				
12553	<5	2.7	0.14	6	16	<0.5	<2	0.14	1.1	2	<2	256	181	0.61	<2	0.05	1	0.09	81	2	0.03	7	<0.01	29	0.03	32	<10	3	0.01	<2	4	<10	39	2				
12555	<5	2.7	0.27	13	26	<0.5	<2	15.25	1.0	9	2	27	91	0.30	3	0.16	3	9.46	173	1	0.02	4	0.01	314	0.03	23	<10	204	0.01	4	9	<10	42	3				
12556	<5	<0.2	1.27	12	31	<0.5	<2	12.36	<0.5	12	2	17	12	0.66	<2	0.78	5	7.91	240	2	0.01	8	<0.01	14	0.11	<3	<10	127	0.04	4	20	<10	19	11				
12557	<5	<0.2	0.06	5	198	<0.5	<2	2.85	<0.5	5	<2	142	15	0.73	<2	0.02	2	0.11	228	2	0.03	8	<0.01	6	0.07	3	<10	236	0.02	2	3	<10	8	1				
12558	34	>6.0	0.34	458	37	<0.5	<2	11.24	67.3	8	2	66	4997	0.64	<2	0.19	3	6.05	96	2	0.01	8	0.01	>2200	0.77	>440	14	116	0.01	6	13	<10	>2200	4				
12558 P-DUP	46	>6.0	0.35	542	38	<0.5	<2	11.49	68.1	8	2	72	4903	0.52	2	0.19	3	6.10	96	2	0.01	7	0.01	>2200	0.77	>440	18	116	0.01	5	13	<10	>2200	4				
12559	6	>6.0	0.05	390	15	<0.5	<2	13.45	402.5	4	4	56	4682	0.39	<2	0.03	1	9.15	92	2	0.02	4	0.01	>2200	1.33	>440	11	140	<0.01	5	4	<10	>2200	<1				
12810	<5	0.7	0.03	<5	13	<0.5	<2	>20.00	1.3	5	<2	<5	32	0.03	<2	0.01	1	0.17	15	<1	0.01	4	<0.01	24	0.01	6	<10	158	<0.01	3	1	<10	95	1				
12560	<5	>6.0	0.02	33	141	<0.5	<2	4.76	81.4	2	2	113	970	0.55	<2	0.01	<1	2.79	59	2	0.01	8	<0.01	1542	0.52	144	<10	41	0.01	3	3	<10	>2200	1				
12561	<5	>6.0	0.19	81	18	<0.5	<2	5.41	32.1	4	<2	119	2881	0.43	2	0.10	1	3.60	53	1	0.01	4	<0.01	1950	0.38	>440	14	54	<0.01	3	4	<10	1755	1				
12562	<5	>6.0	0.29	7	25	<0.5	<2	7.21	1.9	4	<2	100	263	0.43	4	0.16	1	5.06	76	1	0.01	8	<0.01	2199	0.09	56	<10	75	0.01	3	6	<10	59	2				
12563	5	>6.0	0.39	12	22	<0.5	<2	9.83	49.3	5	<2	115	271	0.42	4	0.21	2	6.56	73	1	0.01	7	<0.01	>2200	0.34	73	10	99	0.01	4	5	<10	>2200	4				
12564	15	>6.0	0.14	121	11	<0.5	<2	7.62	60.1	4	2	99	2284	0.38	2	0.08	1	5.16	86	2	0.01	1	0.01	>2200	0.26	>440	<10	77	<0.01	4	4	<10	>2200	1				
12569	10	>6.0	0.11	71	9	<0.5	<2	1.17	7.4	2	<2	164	1316	0.56	<2	0.06	<1	0.76	56	2	0.02	4	<0.01	36	0.14	258	<10	12	0.01	2	4	<10	340	1				
12570	27	>6.0	0.11	182	19	<0.5	<2	5.91	9.3	5	<2	90	1977	0.35	<2	0.06	1	3.71	71	1	0.01	5	0.01	1256	0.22	>440	<10	69	<0.01	3	4	<10	290	1				
12570 C-DUP	35	>6.0	0.11	164	19	<0.5	<2	6.26	9.0	5	<2	93	2045	0.36	<2	0.12	2	3.78	72	<1	0.01	8	0.01	1270	0.22	>440	<10	70	<0.01	4	3	<10	297	1				
12571	5	>6.0	0.13	498	10	<0.5	<2	6.54	46.1	5	<2	175	7722	0.53	<2	0.07	1	3.74	59	2	0.01	5	0.01	569	0.83	>440	<10	67	0.01	4	4	<10	1359	2				
12572	66	>6.0	0.21	>1000	18	<0.5	<2	10.79	70.4	6	4	217	9912	0.40	<2	0.12	2	6.89	107	1	0.01	6	0.02	>2200	0.94	>440	18	113	0.01	4	5	<10	>2200	3				
12573	<5	>6.0	0.23	19	13	<0.5	<2	16.66	88.8	4	2	12	245	0.24	<2	0.12	1	>10.00	118	1	0.02	3	0.01	518	0.46	59	<10	196	0.01	4	7	<10	>2200	2				
12811	5	0.4	8.60	30	473	4.2	3	0.90	0.7	97	13	66	175	4.06	<2	2.43	42	1.13	755	12	1.81	31	0.07	32	0.05	<3	<10	133	0.48	4	80	<10	127	140				
12574	85	>6.0	0.25	907	18	<0.5	<2	9.48	93.8	5	2	155	>10000	0.46	2	0.14	1	5.65	68	1	0.01	9	0.03	2174	1.75	>440	<10	88	0.01	4	8	<10	>2200	3				
12575	<5	3.1	0.13	27	10	<0.5	<2	6.08	1.1	4	2	271	149	3.23	<2	0.08	1	1.69	41	30	0.01	9	<0.01	50	4.15	39	<10	65	<0.01	5	4	<10	36	3				
12576	8	>6.0	0.05	353	6	<0.5	<2	2.69	34.6	2	<2	216	5895	0.48	<2	0.03	<1	1.60	43	1	0.01	7	0.01	316	0.67	>440	<10	25	<0.01	2	2	<10	1661	1				
12577	<5	>6.0	0.21	122	13	<0.5	<2	4.88	16.0	3	<2	142	1650	0.50	<2	0.12	1	2.92	170	1	0.01	6	<0.01	351	0.23	396	13	51	0.01	3	5	<10	917	3				
12578	5	>6.0	0.12	39	12	<0.5	<2	8.86	33.7	6	<2	72	2843	0.34	3	0.07	2	4.93	50	1	0.01	6	0.01	239	0.46	>440	10	89	0.01	3	4	<10	>2200	3				
12578 P-DUP	5	>6.0	0.12	35	13	<0.5	<2	8.74	34.4	5	<2	71	2958	0.33	4	0.07	2	4.91	49	1	0.01	6	0.01	241	0.45	>440	<10	89	0.01	3	4	<10	>2200	3				
12579	91	>6.0	0.05	948	5	<0.5	<2	0.53	42.8	<2	<2	205	8224	0.70	<2	0.03	<1	0.29	59	2	0.01	9	0.01	>2200	0.90	>440	13	5	<0.01	<2	4	<10	1457	<1				
12580	<5	5.3	0.03	8	6	<0.5	<2	3.54	1.7	2	<2	117	197	0.40	<2	0.02	<1	1.92	48	2	0.01	5	<0.01	2176	0.09	42	<10	35	<0.01	3	3	<10	86	<1				
12581	5	>6.0	0.06	32	22	<0.5	<2	1.68	446.3	2	5																											

**Au + ICP- 34 Certificate**

Client: Altius Resources Inc.  
 Geologist: Roderick Smith  
 Project: Sail Pond Project  
 Sample: Rock

DskFile: 378-1716068

DateIn: July 31, 2017  
 DateOut: August 18, 2017



Email: info@easternanalytical.ca  
 P.O. Box 187  
 403 Little Bay Road Springdale, NL A0J 1T0  
 Phone: 709-673-3909 / Fax: 709-673-3408

Signed by:

Results apply to samples as submitted.

Concentrations in assay range may cause interferences in associated elements.

Sample Number	* Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe %	In ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	S %	Sb ppm	Se ppm	Sn ppm	Sr ppm	Ti %	U ppm	V ppm	W ppm	Zn ppm	Zr ppm
12589 C-DUP	<5	0.3	0.61	<5	17	<0.5	<2	15.25	0.6	7	<2	35	21	0.43	<2	0.43	3	8.66	47	2	0.01	4	0.01	16	0.20	6	<10	166	0.02	4	7	<10	19	5	
12590	<5	<0.2	0.33	7	16	<0.5	<2	17.31	0.5	7	<2	11	9	0.63	<2	0.27	2	>10.00	54	5	0.02	7	<0.01	11	0.15	<3	<10	141	0.01	5	7	<10	8	4	
12615	<5	>6.0	0.13	40	13	<0.5	<2	15.89	5.9	5	<2	29	1176	0.21	<2	0.08	1	>10.00	63	1	0.01	<1	<0.01	75	0.10	187	<10	151	<0.01	4	5	<10	147	1	
12616	<5	>6.0	0.12	131	45	<0.5	<2	2.97	19.5	2	<2	125	3312	0.40	<2	0.07	<1	1.61	38	1	0.01	5	<0.01	1778	0.33	>440	<10	26	0.01	3	3	<10	813	2	
12617	<5	>6.0	0.10	511	10	<0.5	<2	14.43	107.4	5	3	59	>10000	0.28	<2	0.06	1	7.99	49	1	0.01	5	0.01	>2200	1.26	>440	<10	144	<0.01	4	7	<10	>2200	1	
12618	14	>6.0	0.05	32	17	<0.5	<2	1.80	2.0	2	<2	165	450	0.53	<2	0.03	<1	0.88	310	2	0.01	9	<0.01	496	0.05	113	<10	18	<0.01	<2	4	<10	85	1	
12619	55	>6.0	0.23	>1000	32	<0.5	3	6.74	45.9	5	2	161	>10000	0.55	<2	0.15	1	4.25	91	2	0.02	6	0.01	>2200	0.98	>440	<10	60	0.01	4	6	<10	1417	2	
12620	6	>6.0	0.26	97	21	<0.5	<2	7.85	48.0	4	<2	64	987	0.34	<2	0.16	1	5.01	199	1	0.01	4	<0.01	1650	0.27	255	<10	88	0.01	3	5	<10	>2200	3	
12621	7	1.2	6.79	62	432	1.5	<2	1.94	0.5	36	12	76	26	2.88	<2	2.13	17	1.05	506	1	2.24	41	0.05	27	0.03	5	<10	269	0.26	2	62	<10	51	110	
12621 P-DUP	<5	>6.0	0.19	13	19	<0.5	<2	16.57	4.5	6	<2	22	648	0.26	<2	0.11	2	>10.00	67	1	0.01	6	<0.01	747	0.08	137	<10	164	<0.01	4	6	<10	184	2	
12622	<5	>6.0	0.17	17	19	<0.5	<2	16.24	4.6	6	<2	24	628	0.26	<2	0.10	2	>10.00	67	1	0.01	4	<0.01	748	0.08	127	<10	163	<0.01	5	6	<10	183	2	
12622	6	>6.0	0.11	45	12	<0.5	<2	4.46	6.4	3	<2	119	1435	0.43	<2	0.06	1	2.66	81	1	0.01	6	<0.01	27	0.15	285	<10	41	<0.01	3	3	<10	253	1	
12623	<5	>6.0	0.14	18	14	<0.5	<2	5.90	2.9	4	<2	109	700	0.43	<2	0.08	1	3.58	112	1	0.01	5	<0.01	231	0.04	51	<10	57	<0.01	3	4	<10	72	1	
12624	7	>6.0	0.31	26	22	<0.5	2	13.85	6.4	8	2	59	1564	0.33	<2	0.17	3	8.62	76	1	0.01	1	<0.01	100	0.15	293	<10	134	0.01	4	7	<10	223	3	
12625	58	>6.0	0.10	497	10	<0.5	<2	2.79	53.3	3	<2	212	7516	0.56	<2	0.06	1	1.65	63	1	0.02	5	0.01	1258	0.86	>440	<10	28	<0.01	3	5	<10	>2200	2	
12626	7	0.7	0.09	14	15	<0.5	<2	13.18	0.5	5	<2	59	41	0.28	<2	0.05	1	9.08	87	1	0.01	4	<0.01	16	0.03	13	<10	91	<0.01	4	6	<10	29	1	
12627	12	>6.0	0.05	67	8	<0.5	<2	2.54	33.2	2	2	193	1820	0.44	<2	0.03	<1	1.39	186	2	0.01	6	<0.01	1185	0.33	>440	<10	18	<0.01	3	3	<10	2072	1	
12628	6	>6.0	0.10	32	14	<0.5	<2	15.05	10.9	6	2	60	1780	0.21	<2	0.08	2	9.17	108	<1	0.01	5	0.01	332	0.15	409	<10	11	<0.01	3	3	<10	353	1	
12721	11	>6.0	0.07	176	11	<0.5	<2	7.13	70.4	4	2	161	4383	0.37	3	0.04	1	4.52	82	2	0.01	4	0.01	>2200	0.51	>440	<10	66	<0.01	4	3	<10	>2200	1	
13418	58	>6.0	0.29	405	48	<0.5	<2	5.40	82.3	4	3	137	4948	0.46	<2	0.17	1	3.12	71	2	0.01	7	0.01	>2200	0.74	>440	<10	60	0.01	3	4	<10	>2200	4	
13418 C-DUP	39	>6.0	0.28	423	39	<0.5	<2	5.22	82.4	5	3	146	4868	0.47	<2	0.16	1	3.09	71	2	0.01	6	0.01	>2200	0.73	>440	<10	60	0.01	3	4	<10	>2200	4	
12814	<5	1.9	0.04	10	<5	<0.5	2	>20.00	0.7	5	<2	<5	34	0.02	3	0.01	1	0.13	14	<1	0.02	4	<0.01	168	0.01	13	<10	140	<0.01	4	1	<10	26	1	

**Assay Certificate**

Client: Altius Resources Inc.  
 Geologist: Roderick Smith  
 Project: Sail Pond Project  
 Sample: Rock



DskFile: 378-1716230

DateIn: July 31, 2017

DateOut: August 18, 2017

Email: info@easternanalytical.ca  
 P.O. Box 187

403 Little Bay Road Springdale, NL A0J 1T0  
 Phone: 709-673-3909 / Fax: 709-673-3408

Signed by: 

Results apply to samples as submitted.

**ISO 17025**

\* Accredited Procedures

SAMPLE NUMBER	*Cu %	*Pb %	*Zn %	*Ag g/t	Sb %
BLANK	<0.01	<0.01	<0.01	<0.1	<0.01
STD ME - 1201	1.58	0.46	5.02	36.6	---
STD CD - 1	---	---	---	---	3.6
12550	---	---	---	16.6	---
12551	---	0.41	---	58.7	---
12558	---	0.41	0.47	103.5	0.17
12558 P-DUP	---	0.40	0.46	104.0	0.17
12559	---	0.37	2.90	102.2	0.16
12560	---	---	0.79	24.0	---
12561	---	---	---	67.1	0.08
12562	---	---	---	11.4	---
12563	---	0.36	0.41	16.4	---
12564	---	0.32	0.39	63.6	0.06
12569	---	---	---	27.5	---
12570	---	---	---	53.5	0.05
12570 C-DUP	---	---	---	53.3	0.05
12571	---	---	---	215.0	0.25
12572	---	0.46	0.26	248.0	0.26
12573	---	---	0.67	6.1	---
12574	1.98	---	0.37	362.0	0.45
12576	---	---	---	106.0	0.14
12577	---	---	---	44.2	---
12578	---	---	0.30	51.1	0.09
12578 P-DUP	---	---	0.29	50.9	0.08
12579	---	0.44	---	168.1	0.17
12581	---	---	3.45	9.1	---
12585	---	---	---	28.9	---
12586	---	---	---	34.1	---
12587	---	0.52	---	43.4	---
12588	---	---	0.31	53.8	0.06
12615	---	---	---	24.0	---
12616	---	---	---	93.2	0.09
12617	1.27	1.33	0.54	365.0	0.35

Assay Certificate

Client: Altius Resources Inc.  
Geologist: Roderick Smith  
Project: Sail Pond Project  
Sample: Rock



DskFile: 378-1716230

DateIn: July 31, 2017

DateOut: August 18, 2017

Email: info@easternanalytical.ca  
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Phone: 709-673-3909 / Fax: 709-673-3408

Signed by:

Results apply to samples as submitted.

**ISO 17025**

\* Accredited Procedures

SAMPLE NUMBER	*Cu %	*Pb %	*Zn %	*Ag g/t	Sb %
12618	---	---	---	13.7	---
12619	1.14	0.33	---	218.0	0.27
12620	---	---	0.44	29.2	---
12621	---	---	---	13.3	---
12621 P-DUP	---	---	---	13.7	---
12622	---	---	---	27.5	---
12623	---	---	---	10.6	---
12624	---	---	---	28.8	---
12625	---	---	0.30	188.7	0.17
12627	---	---	---	40.4	0.08
12628	---	---	---	52.9	---
12721	---	0.39	0.46	118.1	0.11
13418	---	0.85	0.43	154.6	0.15
13418 C-DUP	---	0.86	0.53	153.0	0.15



**Au + ICP- 34 Certificate**

Client: Altius Resources Inc.  
 Geologist: R. Smith  
 Project: Sail Pond Project  
 Sample: Rock

DskFile: 378-1716389

DateIn: August 28, 2017  
 DateOut: September 14, 2017



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 Phone: 709-673-3909 / Fax: 709-673-3408

Signed by: *Robert Wright*

Results apply to samples as submitted.

Concentrations in assay range may cause interferences in associated elements.

Sample Number	* Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe %	In ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	S %	Sb ppm	Se ppm	Sn ppm	Sr ppm	Ti %	U ppm	V ppm	W ppm	Zn ppm	Zr ppm	
BLANK - AU	<5																																			
STD - OREAS 221	1077																																			
BLANK																																				
STD-LKSD-4																																				
12565	6	>6.0	0.46	110	41	<0.5	<2	12.67	16.0	4	<2	75	2551	0.32	2	0.26	1	8.87	40	1	0.01	6	0.01	30	0.19	>440	<10	138	0.01	5	7	11	439	3		
12601	<5	>6.0	0.14	175	18	<0.5	<2	13.63	18.4	4	2	168	3908	0.31	4	0.08	1	1.76	41	<1	0.01	5	0.01	68	0.28	>440	<10	150	<0.01	3	3	<10	661	2		
12602	86	>6.0	2.64	146	127	0.5	<2	11.62	29.8	9	6	71	5052	0.94	<2	1.49	3	7.74	82	1	0.02	16	0.06	27	0.78	>440	<10	121	0.11	8	52	<10	856	31		
12603	<5	1.4	0.14	<5	107	<0.5	<2	2.58	<0.5	3	<2	134	38	0.43	<2	0.08	1	1.42	52	<1	0.01	7	<0.01	749	0.03	7	<10	30	0.01	3	5	<10	15	2		
12604	9	>6.0	0.17	112	252	<0.5	<2	3.74	50.3	3	<2	108	751	0.42	<2	0.10	1	2.30	68	1	0.01	4	<0.01	368	0.14	154	<10	35	0.02	3	4	<10	>2200	4		
12605	8	>6.0	0.35	32	73	<0.5	<2	7.40	3.9	6	<2	286	796	0.51	<2	0.21	2	4.64	86	1	0.01	6	<0.01	216	0.10	195	<10	77	0.01	3	8	<10	142	5		
12722	<5	>6.0	0.53	42	45	<0.5	<2	15.51	155.5	9	3	40	642	0.35	<2	0.32	3	9.70	129	1	0.01	5	0.01	540	0.10	132	<10	218	0.02	4	10	<10	>2200	9		
12591	461	>6.0	0.05	>1000	9	<0.5	<2	0.21	848.6	<2	45	232	>10000	0.75	<2	0.03	<1	0.10	23	3	0.01	22	0.07	>2200	8.53	>440	<10	10	<0.01	2	2	<10	>2200	1		
12592	22	>6.0	0.21	107	48	<0.5	2	13.52	55.3	6	3	65	2722	0.44	4	0.12	2	8.87	96	<1	0.01	5	<0.01	>2200	0.55	>440	<10	160	0.01	4	6	<10	>2200	2		
12593	<5	>6.0	0.19	13	13	<0.5	3	12.05	7.3	6	<2	117	87	0.29	2	0.05	1	7.69	74	1	0.01	5	<0.01	>2200	0.36	66	<10	135	0.01	4	6	<10	202	2		
12594	5	>6.0	0.08	60	18	<0.5	<2	2.96	31.0	2	<2	112	2237	0.40	2	0.05	1	1.71	42	1	0.01	6	<0.01	>2200	0.31	>440	<10	29	<0.01	3	3	<10	1486	1		
12594 DUP - P	6	>6.0	0.08	111	35	<0.5	<2	3.00	32.0	3	<2	112	2255	0.34	5	0.05	1	1.71	41	1	0.01	6	<0.01	>2200	0.31	>440	<10	29	<0.01	2	3	<10	1510	1		
12804	28	>6.0	0.37	594	111	<0.5	<2	14.46	45.1	6	<2	41	6833	0.40	<2	0.22	2	9.55	84	<1	0.01	6	0.01	>2200	0.65	>440	<10	154	0.01	4	6	<10	1278	3		
12805	<5	>6.0	0.24	16	28	<0.5	6	8.29	2.6	6	<2	260	339	0.43	11	0.15	2	5.69	94	<1	0.01	12	<0.01	>2200	0.20	107	<10	87	0.01	4	5	<10	79	4		
12806	177	>6.0	0.24	>1000	41	<0.5	<2	5.21	195.9	7	3	317	>10000	1.17	<2	0.17	2	2.75	88	1	0.01	14	0.06	>2200	3.01	>440	<10	61	0.03	6	8	<10	>2200	13		
12807	139	>6.0	0.81	536	58	<0.5	6	14.28	168.4	12	3	63	7950	0.47	<2	0.58	5	8.84	153	1	0.01	8	0.02	>2200	1.07	>440	<10	174	0.04	4	19	<10	>2200	15		
12687	44	>6.0	0.14	274	19	<0.5	<2	10.39	40.9	5	<2	67	4642	0.35	8	0.09	1	6.94	94	<1	0.01	5	0.01	>2200	0.48	>440	<10	128	0.01	3	5	<10	2091	2		
12815	<5	<0.2	0.02	<5	6	<0.5	<2	>20.00	<0.5	4	<2	<5	<5	0.06	3	0.01	1	0.12	14	<1	0.01	<1	<0.01	<2	0.01	<3	11	148	0.01	<2	1	<10	<5	<1		

**Assay Certificate**

Client: Altius Resources Inc.  
 Geologist: Sail Pond  
 Project: Rock  
 Sample:  
 DskFile: 378-1716566 - As  
 DateIn: September 13, 2017  
 DateOut: October 11, 2017



Email: info@easternanalytical.ca  
 P.O. Box 187  
 403 Little Bay Road Springdale, NL A0J 1T0  
 Phone: 709-673-3909 / Fax: 709-673-3408

Signed by:

Results apply to samples as submitted.

**ISO 17025**

\* Accredited Procedures

SAMPLE NUMBER	* Cu %	* Pb %	* Zn %	* Ag g/t	Sb %
BLANK	<0.01	<0.01	<0.01	<0.1	<0.01
STD ME - 1201	1.53	0.47	5.16	37.0	---
STD CD - 1	---	---	---	---	3.54
11679	1.34	2.93	1.18	322.0	0.34
11680	---	---	---	7.5	---
11686	---	---	0.38	186.4	0.23
11687	---	0.27	0.99	251.0	0.33
11690	---	---	---	40.8	---
11695	---	---	0.33	23.9	---
11696	---	---	---	26.4	---
11698	---	---	---	8.3	---
11698 DUP - P	---	---	---	8.2	---
11700	2.26	---	---	---	---
11718	---	---	---	47.5	---
11718 DUP - P	---	---	---	47.2	---
11719	---	---	---	6.2	---
11724	---	12.8	16.8	198.4	---
11731	---	---	---	10.7	---
11732	---	0.44	---	29.8	---
11733	---	---	0.35	---	---
11742	---	0.34	0.54	22.9	---
11750	2.24	---	---	---	---
11762	---	0.36	---	8.4	---
11770	---	1.20	0.29	111.6	0.12
11771	---	0.69	0.70	41.6	---
11772	---	0.70	0.30	61.5	---
11775	---	12.7	17.2	193.2	---
11785	---	0.42	1.59	80.8	0.10
11788	---	---	---	41.5	---
11788 DUP - C	---	---	---	43.7	---
11789	---	0.34	0.93	74.5	0.12
11790	---	---	0.72	---	---
11791	---	---	---	9.6	---
11793	---	0.56	---	6.1	---
11796	---	0.30	---	20.0	---
11797	---	---	---	8.1	---

**Assay Certificate**

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**ISO 17025**

\* Accredited Procedures

SAMPLE NUMBER	* Cu %	* Pb %	* Zn %	* Ag g/t	Sb %
11807	---	0.27	---	25.9	---
11808	---	0.65	0.91	120.9	0.17
11808 DUP - C	---	0.63	0.90	118.0	0.17
11809	2.23	---	---	---	---
11810	---	---	0.42	---	---
11811	---	0.25	---	51.8	---
11822	---	---	---	6.7	---
11823	---	---	---	7.4	---
11824	---	0.40	---	27.0	---
11826	---	12.8	17.1	193.9	---
11829	---	---	---	70.6	0.12
11830	1.85	1.44	1.50	372.0	0.53
11902	---	0.80	0.27	13.3	---
11903	---	---	---	18.2	---
11904	---	1.23	0.44	78.9	0.11
11907	---	---	---	20.9	---
11908	---	0.42	0.23	7.9	---
11908 DUP - C	---	0.42	0.23	8.4	---
11909	---	0.29	---	65.6	0.13
11910	---	---	0.45	215.0	0.36
11911	---	0.56	---	---	---
11915	---	1.33	---	159.5	0.19
11922	---	1.10	0.94	123.7	0.15
11923	---	0.28	---	46.3	---
11925	2.26	---	---	---	---
11928	---	1.63	1.29	249.0	0.21
11928 DUP - C	---	1.62	1.29	243.0	0.20
11929	---	---	0.67	---	---
11934	1.25	2.20	0.57	138.2	0.34
11936	---	1.00	0.24	58.9	0.09
11937	---	0.69	0.25	45.6	---
11947	---	---	---	34.3	---
11950	---	12.4	17.8	201.9	---
11953	---	---	2.89	23.2	---
12595	1.56	4.54	0.43	411.0	0.35
12596	---	1.20	17.0	163.6	0.16

Au + ICP- 34 Certificate

Client: Altius Resources Inc
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Project: Rock
Sample: Rock



DskFile: 378-1716566

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403 Little Bay Road Springdale, NL A0J 1T0
Phone: 709-673-3909 / Fax: 709-673-3408

DateIn: September 13, 2017
DateOut: October 11, 2017

Signed by: [Signature]

Results apply to samples as submitted.

Concentrations in assay range may cause interferences in associated elements.

Table with columns for Sample Number, Element (Au, Ag, Al, As, Ba, Be, Bi, Ca, Cd, Ce, Co, Cr, Cu, Fe, In, K, La, Mg, Mn, Mo, Na, Ni, P, Pb, S, Sb, Se, Sn, Sr, Ti, U, V, W, Zn, Zr), and units (ppb, ppm, %). Rows include BLANK-AU, STD-OREAS 206, STD-OREAS-45E, and 11688 DUP - C.

Au + ICP- 34 Certificate

Client: Altius Resources Inc
Geologist: Sail Pond
Project: Rock
Sample:



DskFile: 378-1716566

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Signed by: [Signature]

Results apply to samples as submitted.

Concentrations in assay range may cause
interferences in associated elements.

Table with columns: Sample Number, \*Au ppb, Ag ppm, Al %, As ppm, Ba ppm, Be ppm, Bi ppm, Ca %, Cd ppm, Ce ppm, Co ppm, Cr ppm, Cu ppm, Fe %, In ppm, K %, La ppm, Mg %, Mn ppm, Mo ppm, Na %, Ni ppm, P %, Pb ppm, S %, Sb ppm, Se ppm, Sn ppm, Sr ppm, Ti %, U ppm, V ppm, W ppm, Zn ppm, Zr ppm. Rows include 11715-11749 and various sample types like STD OREAS, DUP, and BLANK.



**Au + ICP- 34 Certificate**

Client: Altius Resources Inc  
 Geologist: Sail Pond  
 Project: Rock  
 Sample:

DskFile: 378-1716566

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Signed by: 

Results apply to samples as submitted.

Concentrations in assay range may cause interferences in associated elements.

Sample Number	* Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe %	In ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	S %	Sb ppm	Se ppm	Sn ppm	Sr ppm	Ti %	U ppm	V ppm	W ppm	Zn ppm	Zr ppm	
11750	---	2.6	1.13	62	7	0.5	11	0.30	0.6	29	148	75	>10000	6.70	<2	0.07	13	1.87	102	8	0.02	24	0.06	189	6.35	11	<10	2	0.03	7	17	<10	81	23		
11751	<5	<0.2	0.18	<5	22	<0.5	<2	>20.00	<0.5	5	<2	17	9	0.19	4	0.16	1	7.71	64	2	0.03	6	<0.01	6	0.01	<3	<10	190	<0.01	5	6	<10	8	2		
11752	<5	<0.2	0.08	<5	9	<0.5	<2	>20.00	<0.5	5	<2	8	<5	0.07	4	0.05	1	1.80	31	1	0.01	2	<0.01	2	0.02	<3	<10	192	<0.01	4	3	<10	<5	2		
11753	<5	<0.2	2.04	<5	133	0.5	<2	16.38	<0.5	13	3	19	7	0.85	3	1.28	6	>10.00	97	1	0.02	11	0.01	8	0.19	<3	<10	178	0.06	7	35	<10	15	14		
11754	<5	<0.2	0.83	11	43	<0.5	2	18.36	<0.5	9	2	15	8	0.44	<2	0.51	3	>10.00	120	<1	0.01	6	0.01	9	0.04	<3	<10	194	0.03	5	18	<10	15	7		
11755	<5	0.2	1.80	8	84	<0.5	<2	15.91	0.6	12	3	28	24	0.68	<2	1.11	5	9.67	91	<1	0.02	8	0.02	8	0.12	<3	<10	155	0.05	5	25	<10	25	13		
11756	<5	<0.2	1.00	<5	43	<0.5	2	17.01	0.7	8	2	27	7	0.46	2	0.59	3	>10.00	101	<1	0.02	6	0.01	5	0.04	<3	<10	178	0.03	6	21	<10	16	7		
11757	<5	<0.2	1.29	<5	64	<0.5	<2	15.09	0.8	11	2	34	8	0.60	2	0.76	5	9.39	126	1	0.11	5	0.01	9	0.10	<3	<10	181	0.04	6	20	<10	15	9		
11758	<5	<0.2	0.71	<5	32	<0.5	2	16.46	0.8	9	2	13	6	0.43	<2	0.41	3	>10.00	99	<1	0.01	8	<0.01	27	0.02	<3	<10	183	0.02	4	16	<10	22	6		
11758 DUP - P	<5	<0.2	0.73	6	32	<0.5	<2	17.21	0.5	8	2	9	6	0.41	3	0.41	3	>10.00	100	1	0.01	6	0.01	27	0.02	<3	<10	186	0.02	5	16	<10	22	6		
BLANK - AU	<5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
STD OREAS 218	557	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
BLANK	---	<0.2	<0.01	<5	<5	<0.5	<2	0.01	<0.5	<2	<2	<5	<5	0.01	<2	<0.01	<1	<0.01	1	<1	<0.01	<1	<0.01	<2	0.01	<3	<10	<1	<0.01	<2	<1	<10	<5	<1		
STD-OREAS-45E	---	0.4	6.50	17	236	0.6	<2	0.07	<0.5	24	55	917	731	>10.00	<2	0.33	10	0.16	516	2	0.06	439	0.03	19	0.05	<3	<10	15	0.52	3	305	<10	49	102		
11759	<5	1.5	0.08	<5	12	<0.5	<2	18.74	1.1	5	<2	7	62	0.14	5	0.05	1	>10.00	82	<1	0.01	<1	<0.01	7	0.02	<3	<10	169	<0.01	4	6	<10	19	1		
11760	<5	<0.2	0.24	<5	19	<0.5	<2	18.53	0.8	6	2	11	6	0.20	<2	0.14	2	>10.00	87	<1	0.01	3	<0.01	2	0.01	<3	<10	173	0.01	4	8	<10	12	2		
11761	<5	<0.2	0.16	<5	19	<0.5	3	19.07	0.5	5	2	12	5	0.21	<2	0.10	2	>10.00	121	<1	0.01	2	0.01	4	0.01	<3	<10	190	0.01	5	9	<10	11	2		
11762	<5	>6.0	0.22	9	19	<0.5	<2	16.33	4.6	5	2	41	212	0.31	<2	0.14	2	9.65	109	<1	0.01	7	<0.01	>2200	0.07	36	<10	157	0.01	3	7	<10	152	2		
11763	<5	<0.2	0.26	<5	22	<0.5	<2	18.73	0.6	7	<2	7	8	0.27	<2	0.16	2	>10.00	94	<1	0.01	5	<0.01	18	0.02	<3	<10	190	0.01	5	7	<10	19	2		
11764	<5	1.9	0.44	7	32	<0.5	3	18.04	1.8	8	<2	10	80	0.36	3	0.27	3	>10.00	100	<1	0.02	2	0.01	22	0.03	<3	<10	175	0.02	5	10	<10	57	4		
11765	<5	<0.2	0.67	<5	44	<0.5	<2	17.83	1.0	7	<2	10	7	0.40	4	0.39	3	>10.00	116	<1	0.02	2	0.01	38	0.04	<3	<10	175	0.02	5	15	<10	37	5		
11766	<5	0.9	0.65	<5	45	<0.5	2	16.92	2.9	8	2	34	75	0.43	<2	0.80	3	>10.00	92	<1	0.02	7	0.01	34	0.15	13	<10	176	0.03	4	20	<10	1372	9		
11767	<5	0.3	0.61	<5	42	<0.5	<2	18.42	4.0	9	<2	6	19	0.37	<2	0.36	3	>10.00	110	<1	0.01	8	0.01	28	0.03	<3	<10	205	0.02	4	15	<10	177	5		
11768 DUP - C	<5	0.4	0.61	<5	43	<0.5	<2	18.24	4.1	8	<2	6	22	0.36	<2	0.36	3	>10.00	108	<1	0.01	6	0.01	28	0.03	<3	<10	215	0.02	5	15	<10	125	5		
11769	<5	<0.2	0.22	8	20	<0.5	<2	18.83	0.9	8	<2	7	5	0.29	<2	0.14	3	>10.00	104	<1	0.01	5	0.01	14	0.02	3	<10	199	0.01	4	9	<10	24	2		
11770	11	>6.0	0.45	114	29	<0.5	<2	16.69	54.3	7	4	12	3820	0.38	<2	0.27	7	>10.00	99	<1	0.01	3	0.01	>2200	0.53	>440	<10	173	0.01	5	11	<10	>2200	4		
11771	12	>6.0	0.76	40	48	<0.5	<2	17.50	105.1	13	2	15	1526	0.36	<2	0.48	5	>10.00	89	<1	0.02	6	0.01	>2200	0.41	289	<10	175	0.02	4	18	<10	>2200	8		
11772	13	>6.0	0.82	113	60	<0.5	<2	15.12	51.9	9	3	20	2069	0.51	<2	0.49	3	9.51	103	<1	0.01	6	0.01	>2200	0.32	416	<10	171	0.03	5	18	<10	>2200	7		
11773	<5	1.0	0.94	8	52	<0.5	<2	16.75	10.7	7	2	11	30	0.46	4	0.54	2	>10.00	106	<1	0.01	3	0.01	180	0.11	9	<10	174	0.03	5	16	<10	390	6		
11774	<5	1.3	0.68	<5	47	<0.5	<2	18.33	16.3	11	2	8	55	0.34	2	0.41	4	9.71	90	<1	0.01	3	0.01	116	0.08	8	<10	230	0.02	4	14	<10	524	5		
11775	---	>6.0	1.34	169	99	1.6	<2	3.75	512.2	16	87	16	1124	>10.00	2	0.77	7	2.08	2858	5	0.04	21	0.03	>2200	>20.00	92	<10	22	0.04	11	16	<10	>2200	24		
11781	<5	1.5	1.18	8	86	<0.5	<2	15.21	7.3	9	3	11	36	0.52	<2	0.65	3	>10.00	116	1	0.01	8	0.01	183	0.14	3	<10	167	0.03	5	23	<10	190	9		
11782	<5	<0.2	0.14	9	17	<0.5	<2	16.70	0.8	6	<2	14	<5	0.17	<2	0.08	2	>10.00	102	1	0.01	<1	<0.01	30	0.01	<3	<10	174	<0.01	4	4	<10	39	1		
11783	<5	<0.2	0.33	<5	28	<0.5	<2	16.65	0.9	6	<2	8	<5	0.25	5	0.18	2	>10.00	117	<1	0.01	3	<0.01	23	0.02	<3	<10	176	0.01	5	9	<10	30	3		
11784	<5	<0.2	0.34	5	30	<0.5	<2	16.78	2.8	6	<2	8	<5	0.24	2	0.20	2	>10.00	111	<1	0.01	3	<0.01	11	0.02	<3	<10	192	0.01	4	7	<10	144	3		
11785	24	>6.0	0.17	281	15	<0.5	<2	13.72	225.2	6	6	37	3218	0.53	<2	0.10	2	8.87	89	2	0.01	7	0.01	>2200	0.92	>440	<10	126	0.01	5	8	<10	>2			

**Au + ICP- 34 Certificate**

Client: Altius Resources Inc  
 Geologist: Sail Pond  
 Project: Rock  
 Sample:

DskFile: 378-1716566

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Sample Number	* Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe %	In ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	S %	Sb ppm	Se ppm	Sn ppm	Sr ppm	Ti %	U ppm	V ppm	W ppm	Zn ppm	Zr ppm	
11791	<5	>6.0	0.81	33	60	<0.5	<2	17.13	6.8	7	<2	11	377	0.33	<2	0.49	3	>10.00	100	1	0.01	3	0.01	294	0.07	62	<10	167	0.02	5	24	<10	260	7		
11792	<5	1.4	2.43	17	133	0.5	<2	13.64	2.5	11	4	32	42	0.99	<2	1.48	5	8.23	105	<1	0.02	15	0.01	397	0.25	7	<10	149	0.07	5	33	<10	151	16		
11793	<5	>6.0	0.29	8	33	<0.5	<2	17.33	3.3	6	<2	11	8	0.28	<2	0.19	2	>10.00	95	<1	0.01	4	<0.01	>2200	0.10	6	<10	224	0.01	5	6	<10	68	3		
11794	<5	<0.2	0.20	6	40	<0.5	4	17.75	2.0	6	2	11	5	0.22	2	0.13	2	>10.00	90	<1	0.01	2	<0.01	24	0.01	<3	<10	225	0.01	4	6	<10	35	2		
11795	<5	2.5	0.25	6	45	<0.5	2	17.87	2.5	6	2	14	47	0.27	<2	0.16	2	>10.00	97	<1	0.01	<1	<0.01	715	0.03	8	<10	196	0.01	4	7	<10	37	2		
11796	<5	>6.0	0.34	14	32	<0.5	<2	15.45	16.1	6	2	24	690	0.37	3	0.21	2	8.99	101	<1	0.01	5	<0.01	>2200	0.15	124	<10	172	0.01	5	7	<10	732	3		
11797	<5	>6.0	0.28	13	33	<0.5	<2	15.11	14.9	6	2	26	347	0.38	<2	0.18	2	9.01	110	<1	0.01	2	<0.01	306	0.10	56	<10	178	0.01	4	6	<10	785	2		
11798	<5	4.9	0.51	5	41	<0.5	<2	16.44	3.5	8	<2	30	153	0.37	<2	0.36	3	9.29	111	<1	0.01	5	<0.01	698	0.07	30	<10	199	0.01	5	10	<10	123	4		
11798 DUP - P	<5	5.0	0.59	6	40	<0.5	<2	16.88	3.3	9	<2	23	151	0.37	<2	0.36	3	9.36	112	<1	0.01	5	<0.01	708	0.07	38	<10	201	0.01	4	11	<10	127	4		
BLANK - AU	555	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
STD GS - P5C	---	<0.2	<0.01	<5	<5	<0.5	<2	0.01	<0.5	<2	<2	<5	<5	0.01	<2	<0.01	<1	<0.01	<1	<0.01	<1	<0.01	<2	<2	0.01	<3	<10	<1	<0.01	<2	<1	<10	<5	<1		
BLANK	---	0.2	8.06	14	178	0.8	<2	0.19	<0.5	35	30	530	358	>10.00	<2	0.43	16	0.25	468	2	0.11	222	0.04	22	0.05	<3	<10	29	0.72	4	224	<10	49	131		
STD-OREAS-45D	<5	1.0	0.25	<5	22	<0.5	2	16.93	2.0	6	<2	22	14	0.31	<2	0.15	2	>10.00	115	<1	0.01	4	<0.01	516	0.02	<3	<10	177	0.01	5	9	<10	32	3		
11799	<5	<0.2	0.02	<5	<5	<0.5	2	>20.00	<0.5	4	<2	5	<5	0.02	4	0.01	1	0.18	12	<1	0.01	<1	<0.01	12	0.01	<3	<10	135	<0.01	4	1	<10	<5	1		
11800	<5	2.3	0.29	<5	27	<0.5	<2	14.89	4.6	6	<2	21	28	0.30	3	0.18	2	8.92	85	<1	0.01	2	<0.01	940	0.03	<3	<10	171	0.01	4	8	<10	201	2		
11801	<5	0.5	0.66	11	53	<0.5	<2	17.53	2.0	9	2	13	21	0.38	5	0.41	3	>10.00	112	<1	0.02	4	0.01	301	0.10	6	<10	168	0.02	5	22	<10	73	5		
11802	<5	2.1	0.87	9	58	<0.5	<2	16.64	4.3	9	3	21	46	0.51	4	0.55	3	>10.00	121	<1	0.02	6	0.01	383	0.13	4	<10	148	0.03	4	18	<10	89	6		
11803	<5	0.5	0.94	<5	38	<0.5	2	17.23	2.8	10	3	10	21	0.52	4	0.57	4	>10.00	102	<1	0.01	5	<0.01	443	0.03	9	<10	139	0.01	5	7	<10	47	2		
11804	<5	0.5	0.94	<5	55	<0.5	2	17.23	2.8	10	3	10	21	0.52	4	0.57	4	>10.00	102	<1	0.01	5	<0.01	443	0.03	9	<10	139	0.01	5	7	<10	47	2		
11805	9	>6.0	1.01	15	59	<0.5	<2	17.34	16.2	9	2	13	755	0.47	<2	0.61	3	>10.00	94	<1	0.01	7	0.01	>2200	0.20	90	<10	193	0.03	5	25	<10	581	9		
11806	<5	>6.0	0.46	542	77	<0.5	<2	16.28	127.8	6	4	36	6585	0.38	2	0.28	2	>10.00	79	<1	0.01	7	0.01	>2200	0.48	>440	<10	164	0.02	5	10	<10	>2200	4		
11807	36	>6.0	0.46	498	55	<0.5	2	15.98	126.2	7	5	19	6589	0.40	<2	0.28	2	>10.00	80	<1	0.01	4	0.01	>2200	0.48	>440	<10	169	0.01	5	10	<10	>2200	4		
11808 DUP - C	---	2.8	1.10	80	7	0.5	11	0.31	0.8	29	161	45	>10000	6.38	<2	0.07	13	1.83	96	6	0.02	26	0.06	190	6.69	11	<10	2	0.03	7	16	<10	77	22		
11809	14	5.4	0.52	5	39	<0.5	3	17.36	63.2	8	3	14	223	0.38	<2	0.32	3	>10.00	115	<1	0.01	6	0.01	692	0.14	23	<10	191	0.02	5	20	<10	>2200	6		
11810	47	>6.0	0.48	83	35	<0.5	<2	17.00	21.7	8	3	18	1848	0.39	<2	0.30	2	>10.00	95	<1	0.01	4	0.01	>2200	0.21	384	<10	147	0.02	5	16	<10	714	5		
11811	<5	1.1	0.54	<5	57	<0.5	2	16.94	1.8	9	2	36	36	0.38	5	0.34	4	>10.00	100	<1	0.01	5	0.01	163	0.07	9	<10	156	0.02	4	21	<10	37	6		
11812	<5	1.1	0.55	<5	42	<0.5	<2	17.31	4.2	9	2	11	21	0.40	<2	0.34	3	>10.00	99	1	0.01	2	0.01	338	0.05	4	<10	193	0.02	5	19	<10	128	5		
11813	<5	0.3	0.57	<5	46	<0.5	<2	17.53	2.3	10	2	7	14	0.39	3	0.36	4	>10.00	94	<1	0.01	7	0.01	81	0.03	<3	<10	204	0.02	5	21	<10	39	5		
11814	<5	0.2	0.22	<5	21	<0.5	<2	18.21	0.8	8	<2	7	7	0.27	<2	0.15	3	>10.00	78	<1	0.01	3	0.01	12	0.01	<3	<10	212	0.01	4	8	<10	22	3		
11815	<5	3.8	0.15	<5	23	<0.5	<2	18.89	0.8	7	<2	5	11	0.26	5	0.10	2	>10.00	99	<1	0.01	1	<0.01	63	0.02	<3	<10	201	0.01	6	12	<10	22	2		
11816	<5	0.2	0.18	5	23	<0.5	2	17.91	0.8	5	2	11	<5	0.25	4	0.13	2	>10.00	109	<1	0.01	5	<0.01	384	0.02	3	<10	236	0.01	5	6	<10	29	2		
11817	<5	<0.2	0.16	6	41	<0.5	<2	18.50	0.6	5	<2	7	5	0.21	<2	0.10	2	>10.00	115	<1	0.01	1	<0.01	17	0.01	<3	<10	230	<0.01	4	7	<10	17	1		
11818 DUP - P	<5	0.2	0.16	6	37	<0.5	<2	18.90	<0.5	6	<2	5	6	0.21	<2	0.11	2	>10.00	114	<1	0.01	<1	0.01	16	0.01	<3	<10	234	<0.01	4	7	<10	16	2		
11819	<5	1.2	0.21	<5	37	<0.5	<2	17.35	4.1	5	<2	7	11	0.22	<2	0.14	2	>10.00	92	<1	0.01	2	<0.01	893	0.04	<3	<10	208	0.01	5	7	<10	164	3		
11820	<5	0.2	0.17	<5	17	<0.5	<2	17.61	1.0	5	<2	5	5	0.26	<2	0.11	2	>10.00	86	<1	0.01	3	<0.01	31	0.01	3	<10	174	0.01	4	6	<10	33	2		
11821	<5	2.5	0.14	<5	16	<0.5	<2	18.05	1.2	6	<2	6	94	0.24	<2	0.09	2	>10.00	93																	

**Au + ICP- 34 Certificate**

Client: Altius Resources Inc  
 Geologist: Sail Pond  
 Project: Rock  
 Sample: 378-1716566



DskFile: 378-1716566

DateIn: September 13, 2017  
 DateOut: October 11, 2017

Email: info@easternanalytical.ca  
 P.O. Box 187  
 403 Little Bay Road Springdale, NL A0J 1T0  
 Phone: 709-673-3909 / Fax: 709-673-3408

Signed by:

Results apply to samples as submitted.

Concentrations in assay range may cause interferences in associated elements.

Sample Number	* Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe %	In ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	S %	Sb ppm	Se ppm	Sn ppm	Sr ppm	Ti %	U ppm	V ppm	W ppm	Zn ppm	Zr ppm		
11827	10	<0.2	1.10	<5	59	<0.5	2	17.31	1.8	8	2	8	11	0.46	4	0.66	3	>10.00	110	<1	0.02	12	0.01	46	0.04	<3	11	192	0.03	5	15	<10	124	8			
11828	<5	0.8	0.94	5	62	<0.5	<2	16.51	3.0	10	<2	9	12	0.43	<2	0.57	4	>10.00	104	1	0.01	4	0.01	443	0.06	3	<10	178	0.03	6	19	<10	116	8			
11828 DUP - C																																					
11829	13	>6.0	0.54	65	42	<0.5	<2	15.91	46.3	8	4	11	3021	0.41	<2	0.31	3	>10.00	114	2	0.01	5	0.01	1102	0.25	>440	<10	180	0.03	5	20	<10	118	8			
11830	44	>6.0	0.10	358	13	<0.5	<2	10.74	240.2	5	18	86	>10000	0.42	<2	0.06	1	6.82	69	1	0.01	10	0.02	>2200	1.81	>440	<10	171	0.02	5	17	<10	1874	5			
11901	<5	<0.2	0.19	9	14	<0.5	<2	>20.00	<0.5	7	<2	<5	<5	0.07	<2	0.11	2	0.81	35	1	0.01	<1	<0.01	11	0.02	<3	<10	155	0.01	4	6	11	5	2			
11902	<5	>6.0	0.11	15	23	<0.5	<2	14.72	41.2	6	2	26	238	0.40	<2	0.09	2	8.69	97	1	0.01	7	<0.01	>2200	0.16	40	<10	139	<0.01	5	7	<10	>2200	1			
11903	<5	>6.0	0.14	29	26	<0.5	<2	15.63	20.3	7	<2	18	638	0.32	2	0.09	2	8.93	91	1	0.01	<1	<0.01	938	0.10	112	<10	151	<0.01	4	6	<10	843	2			
11904	21	>6.0	0.22	413	34	<0.5	<2	16.57	64.6	7	4	10	2490	0.31	<2	0.14	2	>10.00	94	1	0.01	5	0.01	>2200	0.30	>440	<10	129	0.01	4	11	<10	>2200	2			
11905	<5	0.5	0.03	8	<5	<0.5	<2	>20.00	0.9	4	<2	<5	11	0.02	3	0.01	1	0.15	10	1	0.02	<1	<0.01	44	0.01	3	<10	145	<0.01	4	1	<10	15	1			
11906	<5	0.4	0.13	7	40	<0.5	<2	17.24	1.8	7	<2	10	6	0.29	3	0.08	2	>10.00	102	1	0.01	6	<0.01	209	0.02	<3	<10	192	<0.01	5	8	<10	35	2			
11907	<5	>6.0	0.22	25	31	<0.5	<2	16.56	42.8	7	3	11	764	0.29	2	0.14	3	9.39	89	1	0.01	4	<0.01	837	0.16	131	<10	190	0.01	5	8	<10	1765	2			
11908	<5	>6.0	0.17	11	36	<0.5	<2	15.11	25.4	6	2	23	135	0.27	<2	0.11	2	8.64	98	1	0.01	2	<0.01	>2200	0.15	29	<10	199	0.01	5	6	<10	>2200	2			
11908 DUP - C																																					
11909	5	>6.0	0.23	120	37	<0.5	<2	13.23	15.1	7	3	39	2016	0.40	<2	0.11	2	8.95	108	<1	0.01	7	<0.01	>2200	0.16	37	<10	211	0.01	5	7	<10	>2200	2			
11910	51	>6.0	0.54	870	61	<0.5	<2	15.00	84.6	10	7	25	7865	0.44	<2	0.31	4	9.48	137	2	0.01	8	0.01	1502	0.43	>440	<10	197	0.02	5	16	<10	>2200	5			
11911	<5	5.4	0.23	15	21	<0.5	2	16.45	1.3	6	<2	5	26	0.21	3	0.15	2	>10.00	66	<1	0.01	1	<0.01	>2200	0.08	11	<10	132	0.01	5	5	<10	19	2			
11912	<5	<0.2	0.19	11	16	<0.5	2	16.65	<0.5	6	<2	7	6	0.18	4	0.13	2	>10.00	84	1	0.01	4	<0.01	59	0.01	<3	<10	172	0.01	5	6	<10	11	2			
11913	<5	0.4	0.23	7	17	<0.5	<2	17.21	0.7	6	<2	7	5	0.23	3	0.15	2	>10.00	89	1	0.01	4	<0.01	107	0.02	<3	<10	159	0.01	6	9	<10	18	2			
11914	<5	0.4	0.30	7	20	<0.5	<2	16.06	0.6	6	<2	9	7	0.23	6	0.19	2	>10.00	74	1	0.01	6	<0.01	14	0.01	<3	<10	143	0.01	5	7	<10	16	3			
11915	32	>6.0	0.20	136	55	<0.5	<2	15.13	30.1	6	6	15	6249	0.26	3	0.13	2	9.87	80	1	0.01	6	0.01	>2200	0.63	>440	<10	151	0.01	5	7	<10	854	2			
11916	<5	0.7	0.12	<5	18	<0.5	<2	16.63	0.7	9	<2	6	36	0.19	2	0.09	3	>10.00	73	1	0.01	<1	<0.01	63	0.01	7	<10	174	0.01	4	7	<10	15	2			
11917	<5	0.2	0.20	11	25	<0.5	<2	16.53	<0.5	10	<2	10	8	0.22	2	0.14	3	>10.00	81	1	0.01	5	<0.01	22	0.01	<3	<10	142	0.01	4	9	<10	14	2			
11918	<5	<0.2	0.30	<5	28	<0.5	<2	16.44	<0.5	10	<2	21	6	0.24	<2	0.23	3	>10.00	73	1	0.01	<1	<0.01	9	0.02	<3	<10	178	0.01	4	9	<10	9	3			
11918 DUP - P																																					
BLANK - AU	<5	<0.2	0.30	<5	26	<0.5	3	16.71	0.5	9	<2	22	6	0.24	2	0.23	3	>10.00	73	<1	0.02	<1	<0.01	8	0.02	<3	<10	180	0.01	5	9	<10	10	3			
STD AREAS 218	518																																				
BLANK																																					
STD-OREAS-923																																					
11919	<5	1.6	7.21	7	411	2.4	20	0.49	0.5	80	22	68	4355	6.26	<2	2.49	40	1.71	906	1	<0.01	<1	<0.01	<2	0.01	<3	<10	<1	<0.01	<2	<1	<10	<5	<1			
11920	<5	<0.2	0.36	<5	29	<0.5	<2	16.32	1.5	8	<2	6	11	0.21	2	0.24	2	>10.00	71	1	0.01	3	<0.01	22	0.02	<3	<10	138	0.01	4	6	<10	17	5			
11921	<5	1.9	0.28	9	24	<0.5	<2	15.82	5.8	7	<2	7	36	0.29	3	0.19	2	>10.00	80	1	0.01	3	<0.01	38	0.03	4	<10	115	0.01	5	8	<10	51	4			
11922	33	>6.0	0.18	258	22	<0.5	<2	15.87	127.7	7	6	12	4474	0.25	3	0.11	2	>10.00	71	1	0.01	5	0.01	186	0.02	<3	<10	129	0.01	5	7	<10	65	3			
11923	6	>6.0	0.09	47	24	<0.5	<2	17.15	8.4	6	2	15	1322	0.18	<2	0.06	2	>10.00	66	1	0.02	3	<0.01	>2200	0.11	199	<10	160	<0.01	5	3	<10	230	1			
11924	<5	3.7	0.08	<5	24	<0.5	<2	16.94	1.3	6	<2	5	84	0.16	2	0.06	1	>10.00	75	1	0.02	3	<0.01	133	0.03	11	<10	159	<0.01	4	4	<10	33	1			
11925	<5	0.2	0.12	9	19	<0.5	<2	17.22	0.9	5	2	<5	15	0.15	7	0.08	13	1.76	103	7	0.02	23	0.06	196	6.02	10	<10	167	<0.01	5	16	<10	51	22			
11926	<5	0.7	0.14	12	16	<0.5	<2	16.92	6.7	6	2	5	14	0.15	<2	0.09	2	>10.00	98	1	0.02	6	<0.01	35	0.02	<3	<10	186	<0.01	5	5	<10	20	2			
11927	<5	>6.0	0.15	845	28	<0.5	<2	13.14	157.4	6	8	35	7490	0.39	<2	0.09	2	>10.00	96	<1	0.01	<1															

Au + ICP- 34 Certificate

Client: Altius Resources Inc
Geologist: Sail Pond
Project: Rock
Sample: 378-1716566



DskFile: 378-1716566

DateIn: September 13, 2017
DateOut: October 11, 2017

Email: info@easternanalytical.ca
P.O. Box 187
403 Little Bay Road Springdale, NL A0J 1T0
Phone: 709-673-3909 / Fax: 709-673-3408

Signed by: [Signature]

Results apply to samples as submitted.

Concentrations in assay range may cause
interferences in associated elements.

Table with columns: Sample Number, \*Au ppb, Ag ppm, Al %, As ppm, Ba ppm, Be ppm, Bi ppm, Ca %, Cd ppm, Ce ppm, Co ppm, Cr ppm, Cu ppm, Fe %, In ppm, K %, La ppm, Mg %, Mn ppm, Mo ppm, Na %, Ni ppm, P %, Pb ppm, S %, Sb ppm, Se ppm, Sn ppm, Sr ppm, Ti %, U ppm, V ppm, W ppm, Zn ppm, Zr ppm. Rows include samples 11932-11959, 11948 DUP - C, and 11958 DUP - P.

**Assay Certificate**

Client: Altius Resources Inc.  
 Geologist: Roderick Smith  
 Project: Sail Pond Project  
 Sample: Rock



Signed by: 

DskFile: 378-1716567 - As

Results apply to samples as submitted.

DateIn: September 13, 2017

Email: info@easternanalytical.ca

DateOut: October 10, 2017

403 Little Bay Road Springdale, NL A0J 1T0

Phone: 709-673-3909 / Fax: 709-673-3408

**ISO 17025**

\* Accredited Procedures

SAMPLE NUMBER	* Cu %	* Pb %	* Zn %	* Ag g/t	Sb %
BLANK	<0.01	<0.01	<0.01	<0.1	<0.01
STD ME - 1201	1.53	0.47	5.16	37.0	---
STD CD - 1	---	---	---	---	3.50
11836	---	---	---	76.3	0.08
11839	---	---	---	58.1	---
11842	---	---	0.36	34.9	---
11843	---	---	---	20.6	---
11847	---	0.84	0.51	26.9	---
11848	---	0.81	0.56	38.8	---
11848 DUP - C	---	0.81	0.56	38.7	---
11850	2.25	---	---	---	---
11869	---	---	---	6.5	---
11873	---	---	---	17.6	---
11875	---	12.7	16.8	197.8	---
11877	---	---	---	36.2	---
11878	---	---	---	22.4	---
11878 DUP - P	---	---	---	22.5	---
11880	---	0.40	0.91	90.9	0.19
11887	---	---	---	10.3	---
11892	---	---	---	6.2	---
11893	---	0.25	0.78	135.4	0.24
11895	---	0.29	0.25	26.1	---
11899	---	0.46	---	---	---
11964	---	1.38	0.26	45.2	---
11965	---	0.69	1.36	333.0	0.31
11966	---	0.43	1.75	130.5	0.09
11967	---	0.74	0.60	74.0	0.06
11968	---	1.68	0.30	227.0	0.21
11969	---	1.49	1.18	13.3	---



**Au + ICP- 34 Certificate**

Client: Altius Resources Inc.  
 Geologist: Roderick Smith  
 Project: Sail Pond Project  
 Sample: Rock



DskFile: 378-1716567 - ICP

DateIn: September 13, 2017  
 DateOut: October 10, 2017

Email: info@easternanalytical.ca

P.O. Box 187  
 403 Little Bay Road Springdale, NL A0J 1T0  
 Phone: 709-673-3909 / Fax: 709-673-3408

Signed by:

Results apply to samples as submitted.

Concentrations in assay range may cause interferences in associated elements.

Sample Number	* Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe %	In ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	S %	Sb ppm	Se ppm	Sn ppm	Sr ppm	Ti %	U ppm	V ppm	W ppm	Zn ppm	Zr ppm		
BLANK - AU	<5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
STD OREAS 206	2090	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
BLANK	---	<5	<0.01	<5	<5	<0.5	<2	0.01	<0.5	<2	<2	<5	<5	<0.01	<2	<0.01	<1	<0.01	1	<1	<0.01	<1	<0.01	<2	<3	<10	<10	<1	<0.01	<2	<1	<10	<5	<1	<10	<5	
STD-OREAS-923	---	1.6	7.21	7	411	2.4	20	0.49	0.5	80	22	68	4355	6.26	<2	2.49	40	1.71	906	<1	0.34	34	0.06	78	0.71	<3	<10	14	40	0.37	4	89	<10	333	109		
11831	<5	2.7	0.20	9	20	<0.5	2	16.04	2.0	6	<2	12	72	0.22	4	0.13	1	>10.00	60	<1	0.01	5	<0.01	748	0.02	<10	<10	198	0.01	5	5	<10	53	2	<10	53	
11832	<5	0.3	0.20	5	18	<0.5	<2	13.29	2.7	6	<2	24	12	0.22	2	0.12	2	7.63	59	<1	0.01	6	<0.01	56	0.01	<3	<10	<10	160	0.01	5	5	<10	43	3	<10	43
11833	<5	<0.2	0.21	<5	20	<0.5	<2	15.48	0.5	7	<2	13	5	0.28	3	0.13	2	>10.00	68	1	0.01	1	<0.01	8	0.02	<3	<10	<10	189	0.01	4	6	<10	20	2	<10	20
11834	<5	3.4	1.63	<5	75	<0.5	<2	10.29	15.4	16	4	43	113	0.84	<2	0.93	7	6.83	119	1	0.02	11	0.02	106	0.05	18	<10	<10	127	0.06	6	27	<10	635	13	<10	635
11835	<5	<0.2	0.68	5	44	<0.5	<2	13.42	0.7	9	<2	19	7	0.37	6	0.46	3	8.96	77	<1	0.01	3	0.01	6	0.05	<3	<10	11	146	0.03	4	9	<10	36	9	<10	36
11836	5	>6.0	0.73	56	45	<0.5	<2	13.68	11.3	9	2	21	1632	0.41	2	0.44	3	9.57	78	1	0.01	5	0.01	1907	0.15	>440	<10	<10	136	0.03	5	9	<10	331	9	<10	331
11837	<5	0.2	0.16	10	16	<0.5	3	14.51	0.6	5	2	19	8	0.22	4	0.10	1	9.86	64	1	0.01	5	<0.01	9	0.01	<3	<10	<10	166	0.01	5	4	<10	68	2	<10	68
11838	<5	0.2	0.17	<5	17	<0.5	<2	15.14	0.5	5	2	14	5	0.20	<2	0.10	1	9.89	65	1	0.01	1	<0.01	9	0.01	<3	<10	<10	169	<0.01	4	4	<10	29	2	<10	29
11839	<5	>6.0	0.25	23	20	<0.5	<2	13.66	18.5	6	<2	14	5	0.20	<2	0.10	1	9.88	64	1	0.01	1	<0.01	5	0.01	3	<10	<10	170	<0.01	4	5	<10	31	2	<10	31
11840	<5	0.2	0.17	15	26	<0.5	<2	14.82	<0.5	6	<2	27	2140	0.28	4	0.14	2	9.20	69	1	0.01	<1	<0.01	980	0.19	417	<10	<10	177	0.01	5	5	<10	683	3	<10	683
11841	<5	1.3	0.55	11	63	<0.5	<2	14.90	1.4	10	2	26	26	0.33	2	0.11	1	9.87	81	1	0.01	6	<0.01	10	0.03	<3	<10	<10	172	0.01	4	3	<10	12	2	<10	12
11842	5	>6.0	0.57	36	39	<0.5	2	14.31	62.4	8	3	48	1486	0.34	2	0.35	2	9.29	74	<1	0.01	5	0.01	290	0.16	248	<10	<10	152	0.02	4	7	<10	>2200	8	<10	>2200
11843	<5	>6.0	0.24	22	20	<0.5	2	15.80	23.8	6	2	50	808	0.28	<2	0.15	2	9.94	78	1	0.01	<1	<0.01	332	0.07	147	<10	<10	186	0.01	4	6	<10	916	3	<10	916
11844	<5	0.8	0.28	7	24	<0.5	<2	14.67	10.8	6	2	57	20	0.28	<2	0.18	2	9.34	99	1	0.01	5	<0.01	679	0.04	<3	<10	<10	164	0.01	3	4	<10	559	3	<10	559
11845	<5	<0.2	0.16	8	11	<0.5	<2	9.69	0.7	6	2	80	10	0.34	2	0.10	2	5.71	76	1	0.01	5	0.01	5	0.01	<3	<10	<10	110	<0.01	3	4	<10	41	1	<10	41
11846	13	<0.2	0.76	10	36	<0.5	3	13.33	0.8	10	2	26	7	0.35	2	0.46	3	8.73	76	1	0.01	6	0.01	15	0.05	3	<10	<10	144	0.03	4	11	<10	33	9	<10	33
11847	11	>6.0	0.22	10	15	<0.5	<2	9.01	75.1	6	3	85	745	0.45	<2	0.14	2	6.13	69	1	0.01	10	<0.01	>2200	0.23	180	<10	<10	105	0.01	4	6	<10	>2200	3	<10	>2200
11848	11	>6.0	0.19	37	13	<0.5	<2	8.85	79.8	6	5	88	1113	0.45	<2	0.12	2	5.99	68	1	0.01	5	0.01	>2200	0.27	265	<10	<10	103	0.01	4	5	<10	>2200	3	<10	>2200
11848 DUP - C	12	>6.0	0.20	22	12	<0.5	<2	8.68	79.2	5	4	82	1072	0.46	<2	0.12	2	5.92	67	2	0.01	4	<0.01	>2200	0.25	243	<10	<10	103	0.01	4	5	<10	>2200	3	<10	>2200
11849	<5	0.2	0.17	<5	15	<0.5	<2	0.58	0.7	<2	3	132	30	0.41	<2	0.14	<1	0.31	34	1	0.01	6	<0.01	38	0.01	<3	<10	<10	6	0.01	<2	3	<10	26	2	<10	26
11850	---	2.6	1.01	17	7	0.5	13	0.26	<0.5	28	144	75	>10000	6.39	<2	0.07	13	1.73	100	7	0.02	24	0.06	166	6.00	6	<10	<10	1	0.03	6	16	<10	142	22	<10	142
11851	<5	<0.2	0.27	13	20	<0.5	<2	14.88	<0.5	6	<2	20	9	0.28	2	0.16	2	9.98	87	1	0.01	1	<0.01	9	0.02	<3	<10	<10	169	0.01	5	5	<10	16	3	<10	16
11852	<5	<0.2	0.52	7	366	1.1	2	6.81	0.7	43	10	140	27	0.28	<2	0.31	24	4.61	243	1	0.43	28	0.03	16	0.09	5	<10	<10	72	0.21	4	77	<10	57	47	<10	57
11853	<5	0.2	1.91	<5	89	<0.5	<2	13.18	<0.5	18	3	63	11	1.00	<2	1.41	8	8.98	155	1	0.06	13	0.02	9	0.07	<3	<10	<10	145	0.07	4	22	<10	33	15	<10	33
11854	<5	<0.2	3.00	11	172	0.5	<2	12.02	<0.5	18	3	51	6	1.13	<2	2.26	9	8.23	142	1	0.02	15	0.02	7	0.04	<3	<10	<10	113	0.11	5	35	<10	16	23	<10	16
11855	<5	<0.2	0.07	11	<5	<0.5	<2	>20.00	<0.5	6	<2	<5	<5	0.04	4	0.04	1	0.18	15	<1	0.01	4	<0.01	<2	0.01	<3	<10	<10	175	<0.01	4	2	<10	<5	1	<10	<5
11856	<5	<0.2	1.45	5	64	<0.5	<2	13.97	0.5	14	2	14	<5	0.74	4	1.03	6	8.85	117	1	0.01	6	0.01	4	0.03	<3	<10	<10	138	0.05	4	17	<10	12	11	<10	12
11857	<5	<0.2	1.08	7	48	<0.5	<2	13.90	<0.5	11	2	13	5	0.45	<2	0.79	4	7.80	69	1	0.01	2	<0.01	4	0.04	<3	<10	<10	136	0.04	5	11	<10	10	10	<10	10
11858	<5	<0.2	0.41	<5	33	<0.5	<2	17.60	<0.5	8	<2	9	5	0.24	2	0.31	2	7.50	55	1	0.01	5	<0.01	2	0.04	<3	<10	<10	175	0.01	4	5	<10	7	4	<10	7
11858 DUP - P	<5	<0.2	0.42	<5	33	<0.5	<2	18.15	<0.5	7	<2	12	<5</																								

**Au + ICP- 34 Certificate**

Client: Altius Resources Inc.  
 Geologist: Roderick Smith  
 Project: Sail Pond Project  
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DskFile: 378-1716567 - ICP

DateIn: September 13, 2017  
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Concentrations in assay range may cause interferences in associated elements.

Sample Number	* Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe %	In ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	S %	Sb ppm	Se ppm	Sn ppm	Sr ppm	Ti %	U ppm	V ppm	W ppm	Zn ppm	Zr ppm
11867	<5	<0.2	0.22	10	24	<0.5	<2	15.71	1.5	6	<2	24	<5	0.18	<2	0.14	2	9.82	57	<1	<0.01	<2	19	0.01	<3	<10	<10	174	0.01	5	4	<10	30	4	
11868	14	<0.2	0.19	8	15	<0.5	<2	16.22	<0.5	6	<2	14	<5	0.14	<2	0.13	2	>10.00	60	1	0.01	<0.01	9	0.01	4	<10	<10	174	0.01	4	4	<10	17	4	
11868 DUP - C	10	<0.2	0.20	9	15	<0.5	<2	16.23	<0.5	6	<2	10	<5	0.14	<2	0.13	2	>10.00	60	1	0.04	<0.01	9	0.01	3	<10	<10	172	0.01	5	4	<10	19	4	
BLANK - AU	<5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
STD OREAS 206	2107	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
BLANK	---	<0.2	<0.01	<5	<5	<0.5	<2	0.01	<0.5	<2	<2	<5	<5	0.01	<2	<0.01	<1	<0.01	<1	<0.01	<0.01	<2	<2	<0.01	<3	<10	<10	<1	<0.01	<2	<1	<10	<5	<1	
STD-OREAS-45D	---	0.3	7.67	15	174	0.8	<2	0.18	<0.5	34	28	530	369	>10.00	<2	0.43	16	0.24	464	3	0.10	219	0.04	23	0.05	<3	<10	<10	29	0.73	3	229	<10	49	131
11869	5	>6.0	0.29	17	19	<0.5	<2	16.49	8.0	6	<2	14	207	0.27	<2	0.17	2	9.80	90	1	0.04	3	0.01	84	0.03	38	<10	<10	205	0.01	4	6	<10	244	3
11870	<5	0.7	0.43	15	34	<0.5	<2	16.87	2.1	6	2	8	15	0.25	<2	0.26	2	>10.00	85	1	0.04	<1	0.01	42	0.02	<3	<10	<10	200	0.01	5	7	<10	59	3
11871	<5	0.4	0.35	7	20	<0.5	<2	15.15	1.8	8	2	17	11	0.27	<2	0.21	2	>10.00	82	1	0.04	4	0.01	37	0.01	<3	<10	<10	166	0.01	3	6	<10	42	5
11872	<5	>6.0	0.42	6	24	<0.5	<2	15.15	0.7	7	<2	11	5	0.26	<2	0.19	2	9.82	66	<1	0.04	5	<0.01	19	0.01	<3	<10	<10	163	0.01	4	6	<10	33	4
11873	<5	>6.0	0.30	22	18	<0.5	<2	17.25	5.2	7	<2	7	627	0.20	<2	0.19	2	9.67	50	1	0.04	6	<0.01	196	0.06	133	<10	<10	180	0.01	4	3	<10	151	3
11874	<5	0.3	0.42	8	22	<0.5	<2	>20.00	0.7	8	<2	10	<5	0.18	3	0.31	3	0.24	19	<1	0.03	4	<0.01	14	0.02	<3	<10	<10	178	0.01	4	3	<10	19	5
11875	---	>6.0	1.23	127	873	1.6	<2	3.54	505.8	16	83	19	1107	9.37	<2	0.78	7	1.96	2742	5	0.07	19	0.03	>2200	18.91	74	<10	<10	21	0.04	11	15	<10	>2200	23
11876	<5	>6.0	1.14	9	111	<0.5	<2	15.82	1.5	17	3	16	19	0.77	5	0.77	8	9.01	145	1	0.04	8	0.01	65	0.02	<3	<10	<10	165	0.04	3	11	<10	126	13
11877	7	>6.0	0.61	73	27	<0.5	<2	15.62	11.3	13	2	12	1386	0.38	2	0.37	5	>10.00	114	1	0.04	5	0.01	346	0.06	148	<10	<10	176	0.02	4	5	<10	348	7
11878	5	>6.0	0.64	31	30	<0.5	<2	16.22	9.8	13	2	11	905	0.38	<2	0.41	5	>10.00	109	1	0.04	1	0.01	438	0.05	82	<10	<10	186	0.02	3	5	<10	367	8
11878 DUP - P	5	>6.0	0.64	38	27	<0.5	<2	16.09	9.5	12	3	11	911	0.37	<2	0.40	5	>10.00	108	1	0.04	1	0.01	444	0.04	91	<10	<10	185	0.02	4	5	<10	361	8
11879	<5	>6.0	0.37	<5	18	<0.5	<2	16.33	1.0	11	<2	11	6	0.29	2	0.24	4	>10.00	95	1	0.04	3	0.01	17	0.01	3	<10	<10	186	0.01	3	5	<10	32	7
11880	12	>6.0	0.65	571	32	<0.5	<2	15.96	143.6	9	6	13	4908	0.34	<2	0.40	3	9.87	70	1	0.04	6	0.01	>2200	0.34	>440	<10	<10	171	0.02	4	6	<10	>2200	8
11881	<5	1.1	0.52	17	28	<0.5	<2	16.99	3.1	9	<2	25	47	0.34	2	0.32	3	>10.00	80	<1	0.04	1	0.01	34	0.03	10	<10	<10	184	0.02	4	6	<10	131	5
11882	<5	0.2	0.56	6	37	<0.5	<2	17.62	0.5	8	<2	9	7	0.29	<2	0.34	3	8.95	63	1	0.04	2	<0.01	23	0.01	<3	<10	<10	212	0.02	3	7	<10	38	5
11883	<5	<0.2	0.40	8	22	<0.5	<2	>20.00	0.6	9	<2	6	<5	0.18	<2	0.30	3	0.48	21	1	0.04	2	<0.01	15	0.02	<3	<10	<10	217	0.01	4	5	<10	15	4
11884	<5	<0.2	0.35	6	21	<0.5	<2	17.01	1.3	8	2	11	5	0.34	2	0.23	3	>10.00	72	<1	0.04	<1	<0.01	31	0.02	<3	<10	<10	178	0.01	4	5	<10	47	4
11885	<5	0.3	0.52	7	24	<0.5	<2	15.61	0.7	9	<2	15	5	0.35	<2	0.32	3	9.96	73	1	0.04	4	<0.01	154	0.02	<3	<10	<10	172	0.01	4	6	<10	29	5
11886	<5	>6.0	0.55	5	32	<0.5	<2	16.24	<0.5	10	<2	12	<5	0.31	<2	0.41	3	>10.00	69	<1	0.05	7	0.01	10	0.02	<3	<10	<10	168	0.02	4	7	<10	20	6
11887	<5	>6.0	0.31	27	22	<0.5	<2	16.24	11.6	8	<2	16	478	0.31	4	0.21	2	>10.00	58	1	0.04	2	<0.01	68	0.02	55	<10	<10	164	0.01	4	5	<10	394	3
11888	<5	0.2	0.45	11	28	<0.5	<2	16.05	2.5	8	<2	13	12	0.31	<2	0.27	3	>10.00	58	1	0.04	1	<0.01	86	0.01	<3	<10	<10	187	0.01	4	6	<10	75	6
11888 DUP - C	<5	0.2	0.47	14	29	<0.5	<2	16.70	2.7	8	2	8	14	0.32	<2	0.27	3	>10.00	57	<1	0.01	1	<0.01	84	0.01	<3	<10	<10	190	0.01	5	6	<10	75	6
11889	<5	<0.2	0.59	<5	35	<0.5	<2	16.92	3.0	8	<2	10	5	0.31	2	0.35	3	>10.00	57	<1	0.01	3	<0.01	30	0.01	<3	<10	<10	186	0.02	4	8	<10	27	8
11890	<5	0.3	0.40	11	25	<0.5	<2	16.42	2.3	9	<2	9	20	0.31	2	0.24	2	>10.00	59	<1	0.01	4	<0.01	56	0.01	<3	<10	<10	183	0.01	5	6	<10	56	6
11891	<5	0.2	0.39	9	38	<0.5	<2	16.25	3.0	8	<2	13	9	0.28	<2	0.24	2	>10.00	61	<1	0.01	3	<0.01	40	0.02	<3	<10	<10	176	0.01	4	7	<10	58	4
11892	<5	>6.0	0.17	9	14	<0.5	<2	16.39	5.7	6	<2	7	236	0.31	4	0.13	2	>10.00	60	2	0.01	4	<0.01	46	0.06	39	<10	<10	129	0.01	5	5	<10	146	2
11893	39	>6.0	0.52	368	31	<0.5	<2	16.13	119.9	10	9	15	7880	0.36	<2	0.41	3	9.39	68	1	0.01	6	0.01	>2200	0.74	>440	<10	<10	180	0.02	5	9	<10	>2200	6
11894	<5	3.2	0.70	7	36	<0.5	<2	16.13	22.2	8	2	16	956	0.31	<2	0.26	3	9.66	75	1	0.01	1	0.01	1060	0.06	147	<10	<10	175	0.02	4	6	<10	>2200	6

**Au + ICP- 34 Certificate**

Client: Altius Resources Inc.  
 Geologist: Roderick Smith  
 Project: Sail Pond Project  
 Sample: Rock

DskFile: 378-1716567 - ICP

DateIn: September 13, 2017  
 DateOut: October 10, 2017



Email: info@easternanalytical.ca

P.O. Box 187

403 Little Bay Road Springdale, NL A0J 1T0

Phone: 709-673-3909 / Fax: 709-673-3408

Signed by: 

Results apply to samples as submitted.

Concentrations in assay range may cause interferences in associated elements.

Sample Number	* Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe %	In ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	S %	Sb ppm	Se ppm	Sn ppm	Sr ppm	Ti %	U ppm	V ppm	W ppm	Zn ppm	Zr ppm
11965	14	>6.0	0.64	>1000	32	<0.5	<2	9.36	233.1	6	11	66	8808	0.54	<2	0.36	2	6.42	70	1	0.01	8	0.02	>2200	0.88	>440	11	<10	122	0.02	4	14	<10	>2200	7
11966	34	>6.0	0.37	391	22	<0.5	<2	12.41	279.8	7	8	31	3957	0.42	<2	0.21	2	8.38	77	1	0.01	8	0.01	>2200	0.45	>440	<10	<10	148	0.02	5	7	<10	>2200	9
11967	6	>6.0	0.30	90	19	<0.5	<2	14.41	77.2	7	5	29	2238	0.32	2	0.18	2	8.37	70	1	0.01	4	0.01	>2200	0.50	>440	17	<10	179	0.01	5	7	<10	>2200	4
11968	28	>6.0	0.24	391	17	<0.5	<2	15.70	58.5	6	8	20	7840	0.36	2	0.13	2	>10.00	61	1	0.01	<1	0.01	>2200	0.99	>440	20	<10	182	0.01	3	4	<10	>2200	4
11969	7	>6.0	0.32	<5	19	<0.5	2	14.57	131.4	9	4	20	35	0.39	<2	0.18	3	8.87	66	1	0.01	4	<0.01	>2200	0.73	18	13	150	0.01	5	6	<10	>2200	5	

**Assay Certificate**

Client: Altius Resources Inc.  
 Geologist: Sail Pond  
 Project: Rock  
 Sample: 378-1716568 - As  
 DskFile: September 13, 2017  
 DateIn: October 9, 2017  
 DateOut:



Email: info@easternanalytical.ca  
 P.O. Box 187  
 403 Little Bay Road Springdale, NL A0J 1T0  
 Phone: 709-673-3909 / Fax: 709-673-3408

Signed by: 

Results apply to samples as submitted.

**ISO 17025**

\* Accredited Procedures

SAMPLE NUMBER	* Cu %	* Pb %	* Zn %	* Ag g/t	Sb %
BLANK	<0.01	<0.01	<0.01	<0.1	<0.01
STD ME - 1201	1.53	0.47	5.16	37.0	---
STD CD - 1	---	---	---	---	3.54
13419	---	0.66	---	104.7	0.14
13420	1.27	---	0.54	279.0	0.32
13438	---	---	---	34.8	---
13439	---	0.57	1.14	118.4	0.26
13440	---	1.91	0.23	185.3	0.23
12688	---	---	---	81.1	0.13
12689	---	---	---	18.1	---
12808	1.10	1.71	0.60	256.0	0.36
12690	---	2.07	2.56	199.4	0.25
12690 DUP - P	---	2.08	2.56	204.1	0.25

**Au + ICP- 34 Certificate**

Client: Altius Resources Inc.  
 Geologist: Sail Pond  
 Project: Rock  
 Sample:

DskFile: 378-1716568

DateIn: September 13, 2017  
 DateOut: October 9, 2017



Email: info@easternanalytical.ca  
 P.O. Box 187  
 403 Little Bay Road Springdale, NL A0J 1T0  
 Phone: 709-673-3909 / Fax: 709-673-3408

Signed by:

Results apply to samples as submitted.

Concentrations in assay range may cause interferences in associated elements.

Sample Number	* Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe %	In ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	S %	Sb ppm	Se ppm	Sn ppm	Sr ppm	Ti %	U ppm	V ppm	W ppm	Zn ppm	Zr ppm	
BLANK - AU	<5																																			
STD - OREAS 218	551																																			
BLANK																																				
STD-OREAS-45D																																				
13419	22	>6.0	0.37	139	20	<0.5	<2	15.87	41.7	9	<2	33	3230	0.35	<2	0.21	3	9.63	68	1	0.01	2	0.01	>2200	0.42	>440	18	<10	141	0.01	4	7	<10	1338	4	
13420	43	>6.0	0.48	>1000	23	<0.5	<2	14.52	125.2	7	3	42	>10000	0.46	<2	0.28	2	9.35	78	1	0.01	5	0.01	1367	0.90	>440	14	<10	125	0.01	5	7	<10	>2200	4	
13421	<5	2.2	0.66	<5	21	<0.5	<2	12.74	1.3	7	2	21	70	0.36	<2	0.45	2	7.22	49	<1	0.01	3	0.01	16	0.05	15	<10	107	0.03	4	13	<10	29	6		
13438	13	>6.0	1.01	117	52	<0.5	<2	17.69	19.6	8	<2	14	1865	0.59	<2	0.64	3	>10.00	88	1	0.02	6	0.01	756	0.36	289	<10	175	0.03	5	16	<10	485	7		
13439	32	>6.0	0.12	>1000	10	<0.5	<2	10.65	202.8	5	3	90	8306	0.50	<2	0.06	1	6.81	83	1	0.01	8	0.01	>2200	1.01	>440	13	<10	87	<0.01	4	6	<10	>2200	1	
13440	33	>6.0	0.30	437	22	<0.5	<2	15.13	47.3	6	5	47	5013	0.38	<2	0.18	2	8.73	103	1	0.01	5	0.01	>2200	0.65	>440	20	<10	183	0.01	5	9	<10	>2200	3	
12688	18	>6.0	0.44	384	35	<0.5	<2	12.05	17.4	8	<2	70	3504	0.40	<2	0.26	2	6.49	65	1	0.01	8	0.01	732	0.31	>440	13	<10	118	0.01	5	6	<10	455	2	
12689	<5	>6.0	0.13	24	23	<0.5	2	10.64	23.0	6	5	50	709	0.29	<2	0.08	1	6.10	66	1	0.01	10	<0.01	1732	0.09	149	<10	112	0.01	3	5	<10	1228	2		
12808	93	>6.0	0.29	>1000	20	<0.5	<2	8.28	151.2	6	5	112	>10000	0.56	<2	0.17	2	5.40	125	1	0.01	6	0.02	>2200	0.77	>440	42	<10	79	0.01	4	5	<10	>2200	4	
12690	154	>6.0	0.18	>1000	15	<0.5	<2	8.16	387.9	5	12	93	8110	0.46	<2	0.09	2	4.91	65	2	0.02	3	0.01	>2200	0.41	>440	25	<10	75	0.01	5	7	<10	>2200	2	
12690 DUP - P	155	>6.0	0.19	>1000	17	<0.5	<2	8.01	394.4	5	13	97	8118	0.44	2	0.09	2	4.99	66	2	0.02	3	0.01	>2200	0.41	>440	21	<10	76	0.01	5	7	<10	>2200	2	
12716	<5	2.8	0.20	8	11	<0.5	<2	11.63	1.6	5	<2	53	59	0.35	<2	0.13	1	6.71	53	1	0.01	6	<0.01	331	0.07	14	<10	113	0.01	4	5	<10	49	2		



**Assay Certificate**

Client: Altius Resources Inc.  
 Geologist: R. Smith  
 Project: Sail Pond Project  
 Sample: Rock



Signed by: *[Signature]*

DskFile: 378-1716584

Results apply to samples as submitted.

DateIn: August 28, 2017  
 DateOut: September 14, 2017

Email: info@easternanalytical.ca  
 P.O. Box 187  
 403 Little Bay Road Springdale, NL A0J 1T0  
 Phone: 709-673-3909 / Fax: 709-673-3408

**ISO 17025**

\* Accredited Procedures

SAMPLE NUMBER	*Cu %	*Pb %	*Zn %	*Ag g/t	Sb %
BLANK	<0.01	<0.01	<0.01	<0.1	<0.01
STD ME - 1201	1.61	0.47	4.99	36.6	---
STD CD - 1	---	---	---	---	3.54
12565	---	---	---	77.0	0.14
12601	---	---	---	85.5	0.17
12602	---	---	---	139.7	0.17
12604	---	---	0.26	22.3	---
12605	---	---	---	17.5	---
12722	---	---	0.93	13.8	---
12591	7.08	9.40	0.27	279.8	2.54
12592	---	2.51	---	108.8	0.16
12593	---	2.31	---	30.3	---
12594	---	0.95	---	72.4	0.10
12594 DUP - P	---	0.96	---	70.3	0.10
12804	---	0.78	---	148.2	0.23
12805	---	0.98	---	16.4	---
12806	3.90	0.59	0.88	508.0	0.89
12807	---	0.76	0.89	259.0	0.28
12687	---	0.24	---	95.7	0.17

**Assay Certificate**

Client: Altius Resources Inc.  
 Geologist: R. Smith  
 Project: Sail Pond Project (Grabs / Skid #3)  
 Sample: Rock



Signed by:   
 \_\_\_\_\_

DskFile: 378-1717355 - As

DateIn: November 1, 2017

DateOut: November 30, 2017

Email: info@easternanalytical.ca

P.O. Box 187

403 Little Bay Road Springdale, NL A0J 1T0

Phone: 709-673-3909 / Fax: 709-673-3408

**ISO 17025**

\* Accredited Procedures

Results apply to samples as submitted.

SAMPLE NUMBER	* Cu %	* Pb %	* Zn %	* Ag g/t	* Sb %
BLANK	<0.01	<0.01	<0.01	<0.1	<0.01
STD ME - 1201	1.65	0.48	5.13	38.3	---
STD CD - 1	---	---	---	---	3.54
12597	---	1.07	---	30.2	---
12600	---	---	---	12.3	---
13422	---	---	---	25.3	---
13437	---	---	---	19.5	---
12740	---	---	---	270.0	0.15
12741	2.67	1.66	1.95	440.0	0.67
12743	---	---	---	21.7	---
12744	3.58	---	1.04	588.0	0.92
12745	---	---	---	14.4	---
12746	---	1.99	---	30.1	---
12747	2.93	1.12	0.52	430.0	0.49
12748	1.35	0.28	0.28	226.0	0.30
12748 DUP - C	1.39	0.27	0.29	227.8	0.33
12749	---	0.36	---	103.9	0.09
12751	---	---	---	19.9	---
12752	---	13.8	18.0	207.9	---
12753	2.56	0.42	2.13	479.0	0.45
12755	---	0.79	0.27	95.0	0.07

**Au + ICP- 34 Certificate**

Client: Altius Resources Inc.  
 Geologist: R. Smith  
 Project: Sail Pond Project (Grabs / Skid #3)  
 Sample: Rock



Signed by: *[Signature]*

DskFile: 378-1717355

Results apply to samples as submitted.

Email: info@easternanalytical.ca  
 P.O. Box 187  
 403 Little Bay Road Springdale, NL A0J 1T0  
 Phone: 709-673-3909 / Fax: 709-673-3408

DateIn: November 1, 2017  
 DateOut: November 30, 2017

Concentrations in assay range may cause interferences in associated elements.

Sample Number	* Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe %	In ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	S %	Sb ppm	Se ppm	Sh ppm	Sr ppm	Ti %	U ppm	V ppm	W ppm	Zn ppm	Zr ppm			
BLANK - AU	<5																																					
STD OREAS 206	2121																																					
BLANK																																						
STD-OREAS-923																																						
12597	<5	1.5	7.36	9	437	2.5	21	0.46	0.5	89	25	72	4086	6.59	<2	2.47	43	1.73	1009	2	0.31	38	0.07	78	0.72	<3	<10	14	42	0.44	<2	96	<10	360	<1	<5		
12598	<5	0.3	1.37	<5	44	<0.5	3	7.03	<0.5	2	2	313	12	0.36	2	0.68	1	5.54	63	2	0.01	4	0.02	17	0.02	3	<10	<10	82	0.01	4	6	<10	25	2			
12599	<5	>6.0	0.01	91	14	<0.5	<2	7.18	15.6	2	2	315	855	0.28	<2	0.01	<1	5.40	64	2	0.01	3	<0.01	>2200	0.27	217	33	<10	63	<0.01	5	3	10	775	1			
12600	<5	>6.0	0.42	11	26	<0.5	<2	12.89	2.2	5	2	22	202	0.29	5	0.21	3	>10.00	75	2	0.01	4	<0.01	14	0.02	4	<10	<10	211	0.01	4	6	<10	14	4			
13422	<5	>6.0	0.21	31	20	<0.5	2	10.34	6.2	5	2	62	1072	0.31	<2	0.11	1	7.98	109	1	0.01	7	<0.01	568	0.14	295	<10	10	126	0.01	5	7	<10	235	3			
13423	<5	0.4	0.10	7	5	<0.5	<2	>20.00	3.1	4	<2	37	16	0.17	<2	0.04	1	0.29	42	1	<0.01	4	0.01	82	0.02	6	<10	<10	26	<0.01	5	3	<10	57	2			
13424	<5	0.2	0.04	14	12	<0.5	4	14.71	0.5	4	3	29	5	1.50	<2	0.02	1	>10.00	103	3	0.01	2	<0.01	7	0.86	<3	<10	<10	129	<0.01	7	9	<10	13	1			
13437	<5	>6.0	0.29	26	25	<0.5	<2	12.39	6.0	8	2	77	758	0.47	<2	0.15	3	7.15	121	2	0.01	6	0.01	10	0.28	221	<10	10	173	0.01	4	7	<10	187	3			
12740	55	>6.0	0.39	>1000	30	<0.5	<2	8.04	67.1	6	5	194	8979	0.41	<2	0.20	2	6.24	54	1	0.01	7	0.02	626	0.67	>440	11	<10	104	0.01	5	8	<10	1559	4			
12741	109	>6.0	0.05	>1000	5	<0.5	7	1.84	336.6	2	8	321	>10000	0.41	<2	0.03	<1	1.31	27	2	0.01	8	0.04	>2200	1.87	>440	47	<10	20	<0.01	3	2	<10	>2200	1			
12742	<5	2.6	0.83	26	39	<0.5	<2	4.05	1.5	8	3	159	93	0.81	<2	0.51	3	0.22	42	2	0.02	11	0.01	78	0.07	32	<10	84	0.03	3	10	<10	66	8				
12743	<5	>6.0	0.19	18	13	<0.5	<2	12.24	4.0	5	2	35	604	0.24	<2	0.10	1	9.74	82	1	0.01	12	<0.01	193	0.07	158	<10	<10	128	0.01	5	5	<10	142	2			
12744	173	>6.0	0.13	919	9	<0.5	<2	4.84	223.0	4	6	203	>10000	0.46	2	0.08	1	3.72	49	1	0.01	9	0.05	1146	2.32	>440	14	<10	59	<0.01	4	4	<10	>2200	2			
12745	5	>6.0	0.35	26	26	<0.5	19	0.82	2.0	10	<2	106	558	0.48	<2	0.20	4	3.17	100	1	0.01	14	<0.01	25	0.06	121	<10	<10	105	0.01	4	7	<10	114	2			
12746	<5	>6.0	0.05	<5	14	<0.5	<2	7.79	4.2	<2	2	246	16	0.50	<2	0.02	<1	0.53	52	8	0.01	7	<0.01	>2200	0.16	20	45	<10	11	<0.01	2	3	<10	8	1			
12747	132	>6.0	0.08	>1000	9	<0.5	<2	5.01	117.5	3	5	187	>10000	0.44	<2	0.04	1	3.59	45	5	0.01	9	0.05	>2200	1.53	>440	30	<10	58	<0.01	5	4	<10	>2200	2			
12748	83	>6.0	0.06	513	14	<0.5	<2	7.01	58.0	3	2	160	>10000	0.37	<2	0.03	1	5.07	89	1	0.01	8	0.02	>2200	0.91	>440	13	<10	90	<0.01	4	6	10	>2200	1			
12749	29	>6.0	0.05	486	13	<0.5	<2	7.18	61.7	3	2	168	>10000	0.40	<2	0.03	1	4.99	85	1	0.01	8	0.02	>2200	0.98	>440	21	<10	85	<0.01	4	6	<10	>2200	1			
12750	<5	0.5	2.51	13	277	0.6	3	10.12	0.6	19	6	32	32	1.37	<2	1.29	10	7.97	167	1	0.01	20	0.02	12	0.27	3	<10	158	0.09	5	25	<10	28	22				
12751	10	>6.0	0.09	27	10	<0.5	<2	5.68	6.1	4	<2	82	781	0.31	<2	0.05	1	4.15	58	1	0.01	9	<0.01	180	0.08	174	<10	53	<0.01	4	5	<10	297	1				
12752	<5	>6.0	1.23	193	806	1.8	<2	3.26	560.1	15	106	18	1327	>10.00	5	0.71	6	2.04	3501	5	0.04	20	0.03	>2200	>20.00	120	<10	<10	18	0.05	<2	15	<10	>2200	25			
12753	<5	>6.0	0.18	>1000	27	<0.5	3	3.98	325.3	4	10	136	>10000	0.59	<2	0.10	1	2.84	60	5	0.01	24	0.04	>2200	1.98	>440	17	11	44	0.01	4	8	<10	>2200	6			
12754	9	0.4	0.73	9	134	<0.5	<2	0.06	<0.5	8	7	219	36	2.70	<2	0.22	4	0.06	332	2	0.18	10	0.01	34	0.05	12	<10	<10	15	0.04	2	16	<10	80	9			
12755	<5	>6.0	0.18	388	19	<0.5	2	7.47	47.0	3	3	71	2167	0.32	<2	0.10	1	5.76	77	1	0.01	6	0.01	>2200	0.28	>440	25	<10	83	0.01	4	5	<10	>2200	2			
12756	<5	<0.2	0.59	9	27	<0.5	3	15.21	0.6	7	2	16	8	0.42	4	0.33	3	>10.00	43	2	0.01	4	<0.01	18	0.03	4	<10	165	0.02	4	6	<10	>2200	5				

Geochem Analysis Certificate

Client: Altius Resources Inc.  
Geologist:  
Project:  
Sample: Channel

DskFile: 378-1817832  
DateIn: December 7, 2017  
DateOut: January 10, 2017



Signed by: *[Signature]*

Results apply to samples as submitted.

Email: info@easternanalytical.ca  
P.O. Box 187  
403 Little Bay Road Springdale, NL A0J 1T0  
Phone: 709-673-3909 / Fax: 709-673-3408

ISO 17025

\* Accredited Procedures

SAMPLE NUMBER	Ag ppm
BLANK	<0.2
STD - OREAS 600	24.9
STD - OREAS 601	50.9
STD - OREAS 602	120.5
STD - OREAS 603	300.8
STD - OREAS 604	501.2
STD - OREAS 605	993.6
12595	463.7
14770	387.4
14881	467.2
12942	498.5
11830	416.6
11555	419.6
11965	321.6
11635	328.5
11679	355.7
11626	280.6
11587	275.7
11687	253.1
11928	260.5
14724	218.4
11628	221.6
11572	250.0
11968	213.1
14732	209.1
11910	273.8
11588	200.2
11582	218.4
11608	229.8
11664	223.9
11554	193.8
11654	661.9
11686	166.2
11586	1516.0
12596	166.4
11609	169.8
11915	175.4

Geochem Analysis Certificate

Client: Altius Resources Inc.  
Geologist:  
Project:  
Sample: Channel

DskFile: 378-1817832  
DateIn: December 7, 2017  
DateOut: January 10, 2017



Signed by:

Results apply to samples as submitted.

Email: info@easternanalytical.ca  
P.O. Box 187  
403 Little Bay Road Springdale, NL A0J 1T0  
Phone: 709-673-3909 / Fax: 709-673-3408

ISO 17025

\* Accredited Procedures

SAMPLE NUMBER	Ag ppm
11584	1179.0
11676	154.2
11934	315.3
11893	206.5
11966	123.8
11629	121.9
11922	134.7
11808	136.0
11619	111.1
11770	125.8
12856	93.5
11366	94.3
14726	96.1
11544	102.5
11590	97.8
11880	122.8
11611	85.8
11785	86.0
11546	72.5
11904	90.5
12453	67.5
11836	91.1
11789	85.0
11967	73.9
12944	79.2
12430	64.3
11829	86.2
14786	62.5
12854	59.0
11909	74.2
14780	61.0
11722	65.4
12952	57.2
11323	49.0
11936	67.9
11339	50.3
11839	65.5



Geochem Analysis Certificate

Client: Altius Resources Inc.  
Geologist:  
Project:  
Sample: Channel  
DskFile: 378-1817832  
DateIn: December 7, 2017  
DateOut: January 10, 2017



Signed by: 

Results apply to samples as submitted.

Email: info@easternanalytical.ca  
P.O. Box 187  
403 Little Bay Road Springdale, NL A0J 1T0  
Phone: 709-673-3909 / Fax: 709-673-3408

**ISO 17025**

\* Accredited Procedures

SAMPLE NUMBER	Ag ppm
12868	52.5
11573	54.6
11556	56.1
11370	44.8
11571	53.5
11612	56.2
11811	59.3
11338	38.4
12935	44.1

Geochem Analysis Certificate

Client: Altius Resources Inc.  
Geologist:  
Project:  
Sample: Rock

DskFile: 378-1817833  
DateIn: December 7, 2017  
DateOut: January 10, 2017



Signed by: *[Signature]*

Results apply to samples as submitted.

Email: info@easternanalytical.ca

P.O. Box 187

403 Little Bay Road Springdale, NL A0J 1T0

Phone: 709-673-3909 / Fax: 709-673-3408

ISO 17025

\* Accredited Procedures

SAMPLE NUMBER	Ag ppm
BLANK	<0.2
STD - OREAS 600	24.7
STD - OREAS 601	47.9
STD - OREAS 602	121.6
STD - OREAS 603	300.5
STD - OREAS 604	488.5
STD - OREAS 605	944.5
12744	803.2
8333	660.6
8337	526.4
12806	677.1
12753	349.6
10518	824.5
12741	568.6
12747	359.2
8332	482.0
10519	497.1
8329	943.9
12617	361.2
12523	590.8
12574	350.5
12606	449.0
12666	323.0
12529	288.5
12591	2030.0
13420	473.0
12740	290.7
10516	273.2
12807	303.1
12701	211.9
12808	430.0
10520	258.4
12572	253.0
12667	269.8
12651	213.3
12748	176.1
12619	200.5

Geochem Analysis Certificate

Client: Altius Resources Inc.  
Geologist:  
Project:  
Sample: Rock

DskFile: 378-1817833  
DateIn: December 7, 2017  
DateOut: January 10, 2017



Signed by: *[Signature]*

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Email: info@easternanalytical.ca  
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403 Little Bay Road Springdale, NL A0J 1T0  
Phone: 709-673-3909 / Fax: 709-673-3408

ISO 17025

\* Accredited Procedures

SAMPLE NUMBER	Ag ppm
12571	211.3
12505	195.5
12752	150.6
12690	286.6
12540	141.0
10517	173.0
12530	194.2
12625	169.1
13440	190.3
12528	170.0
12507	144.8
12579	146.9
12521	154.6
13418	148.4
12713	111.1
12664	145.7
12804	156.9
12602	146.3
8331	136.9
12520	117.0
12510	126.6
12508	126.8
8336	117.4
12613	96.2
12503	100.5
13439	214.5
12721	120.1
12698	111.8
8330	108.0
12539	105.5
12592	123.3
12641	79.7
12576	99.1
12674	82.7
13419	107.3
12749	72.7
12558	107.0

Geochem Analysis Certificate

Client: Altius Resources Inc.  
Geologist:  
Project:  
Sample: Rock

DskFile: 378-1817833

DateIn: December 7, 2017  
DateOut: January 10, 2017



Signed by: *[Signature]*

Results apply to samples as submitted.

ISO 17025

\* Accredited Procedures

Email: info@easternanalytical.ca

P.O. Box 187

403 Little Bay Road Springdale, NL A0J 1T0

Phone: 709-673-3909 / Fax: 709-673-3408

SAMPLE NUMBER	Ag ppm
12559	108.1
12645	77.4
12715	84.7
12533	90.5
12687	102.3
12755	75.7
12697	69.5
12616	83.3
12648	73.4
12524	90.7
12646	72.7
12668	79.0
12601	85.5
12515	523.9
12695	70.7
12688	79.2
12665	77.3
12565	81.8
12568	56.1
12699	74.9
12594	61.2
12561	66.5
12610	50.4
12513	61.4
12700	55.1
12564	64.1
12650	49.9
12703	56.9
12551	59.1
12705	51.0
12588	51.3
12570	51.2
12661	55.9
12628	58.0
12578	50.5
12642	45.4

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**APPENDIX 2. SOIL SAMPLING DATA AND ANALYTICAL CERTIFICATES**

## Appendix 2: Sail Pond Soil Sample List

Sample Number	UTM Easting	UTM Northing	Datum	Zone	Sample Medium	pXRF Cu(ppm)	pXRF Pb(ppm)	pXRF Zn(ppm)	pXRF As(ppm)	pXRF Sb(ppm)	Check Analysis - Certificate Reference
5811	579258	5661904	NAD27	21	B-horizon soil	1.0	14.1	36.0	8.8	1.0	
5812	579309	5661899	NAD27	21	B-horizon soil	1.0	24.9	155.4	25.1	1.0	
5813	579334	5661898	NAD27	21	B-horizon soil	1.0	14.0	80.8	10.0	1.0	
5814	579360	5661895	NAD27	21	B-horizon soil	1.0	29.5	68.5	22.9	1.0	
5815	579382	5661898	NAD27	21	B-horizon soil	1.0	24.5	64.8	15.3	1.0	
5816	579409	5661899	NAD27	21	B-horizon soil	1.0	22.3	69.9	14.5	1.0	
5817	579438	5661897	NAD27	21	B-horizon soil	1.0	26.6	94.6	10.3	21.7	
5818	579461	5661893	NAD27	21	B-horizon soil	1.0	24.6	83.4	23.2	15.6	
5819	579486	5661896	NAD27	21	B-horizon soil	1.0	15.9	43.7	12.2	11.3	
5820	579510	5661896	NAD27	21	B-horizon soil	1.0	20.4	43.1	31.9	1.0	
5821	579537	5661899	NAD27	21	B-horizon soil	1.0	24.7	52.2	34.3	1.0	
5822	579562	5661898	NAD27	21	B-horizon soil	1.0	32.0	85.3	18.1	1.0	
5823	579583	5661898	NAD27	21	B-horizon soil	1.0	14.7	57.1	10.8	1.0	
5824	579611	5661893	NAD27	21	B-horizon soil	1.0	27.0	51.0	1.0	1.0	
5825	579637	5661901	NAD27	21	B-horizon soil	1.0	18.4	158.8	13.2	1.0	
5826	579660	5661898	NAD27	21	B-horizon soil	1.0	1.0	17.1	1.0	1.0	
5827	579684	5661904	NAD27	21	B-horizon soil	1.0	33.2	112.6	15.2	1.0	
5828	579709	5661899	NAD27	21	B-horizon soil	1.0	22.1	52.8	10.8	16.5	
5829	579737	5661909	NAD27	21	B-horizon soil	1.0	16.2	45.8	1.0	29.6	
5830	579784	5661899	NAD27	21	B-horizon soil	1.0	21.5	97.4	11.8	14.2	
5831	579807	5661893	NAD27	21	B-horizon soil	1.0	10.4	37.0	1.0	30.9	
5832	579839	5661897	NAD27	21	B-horizon soil	1.0	18.2	50.7	14.6	1.0	
5833	579885	5661898	NAD27	21	B-horizon soil	1.0	42.6	102.2	9.8	1.0	
5834	579910	5661894	NAD27	21	B-horizon soil	1.0	25.2	56.5	1.0	1.0	
5835	579936	5661890	NAD27	21	B-horizon soil	1.0	32.9	108.2	13.5	1.0	
5836	579984	5661892	NAD27	21	B-horizon soil	1.0	23.6	59.0	10.1	1.0	
5837	580009	5661899	NAD27	21	B-horizon soil	1.0	21.8	70.2	20.9	1.0	
5838	580091	5661893	NAD27	21	B-horizon soil	1.0	1.0	29.8	6.5	17.0	
5839	580188	5661892	NAD27	21	B-horizon soil	1.0	15.0	54.5	10.8	14.4	
5840	580217	5662097	NAD27	21	B-horizon soil	1.0	27.6	101.8	15.5	1.0	
5841	580063	5662097	NAD27	21	B-horizon soil	1.0	33.8	80.6	9.7	21.4	
5842	580012	5662104	NAD27	21	B-horizon soil	1.0	16.5	36.5	1.0	28.8	
5843	579942	5662093	NAD27	21	B-horizon soil	1.0	32.6	71.5	1.0	1.0	
5844	579786	5662093	NAD27	21	B-horizon soil	1.0	17.1	47.4	14.6	1.0	
5845	579738	5662092	NAD27	21	B-horizon soil	1.0	26.7	83.9	15.5	1.0	
5846	579721	5662097	NAD27	21	B-horizon soil	1.0	26.4	38.5	11.5	11.5	
5847	579693	5662103	NAD27	21	B-horizon soil	1.0	29.9	121.8	1.0	1.0	
5848	579667	5662105	NAD27	21	B-horizon soil	1.0	24.8	62.9	16.6	11.5	
5849	579617	5662095	NAD27	21	B-horizon soil	1.0	11.5	22.7	19.8	1.0	
5850	579591	5662104	NAD27	21	B-horizon soil	1.0	14.1	44.1	22.1	1.0	
5851	579563	5662105	NAD27	21	B-horizon soil	1.0	28.8	74.5	18.0	1.0	
5852	579544	5662099	NAD27	21	B-horizon soil	1.0	14.9	28.1	17.7	11.5	
5853	579516	5662094	NAD27	21	B-horizon soil	1.0	19.9	40.0	30.2	1.0	
5854	579488	5662092	NAD27	21	B-horizon soil	1.0	21.1	53.9	10.9	1.0	
5855	579468	5662095	NAD27	21	B-horizon soil	1.0	36.3	75.5	24.1	1.0	
5856	579441	5662104	NAD27	21	B-horizon soil	1.0	39.8	122.1	13.1	1.0	
5857	579415	5662110	NAD27	21	B-horizon soil	1.0	34.2	128.2	21.2	1.0	
5858	579389	5662102	NAD27	21	B-horizon soil	1.0	18.5	89.4	8.2	1.0	
5859	579339	5662092	NAD27	21	B-horizon soil	1.0	41.4	141.1	1.0	1.0	
5860	579322	5662092	NAD27	21	B-horizon soil	1.0	26.2	69.4	12.3	1.0	
5861	579288	5662102	NAD27	21	B-horizon soil	1.0	23.6	65.3	10.7	14.7	
5862	579261	5662095	NAD27	21	B-horizon soil	1.0	14.5	47.6	23.0	1.0	
5863	579360	5662301	NAD27	21	B-horizon soil	1.0	11.9	36.7	7.4	1.0	
5864	579389	5662300	NAD27	21	B-horizon soil	1.0	36.3	85.6	17.3	1.0	
5865	579407	5662295	NAD27	21	B-horizon soil	1.0	11.5	63.0	10.1	1.0	
5866	579433	5662297	NAD27	21	B-horizon soil	1.0	22.2	89.1	1.0	1.0	
5867	579459	5662294	NAD27	21	B-horizon soil	1.0	24.0	140.2	29.7	1.0	
5868	579481	5662294	NAD27	21	B-horizon soil	1.0	11.8	35.5	7.2	1.0	
5869	579513	5662295	NAD27	21	B-horizon soil	1.0	33.7	84.1	12.4	13.3	
5870	579537	5662295	NAD27	21	B-horizon soil	1.0	26.1	39.3	24.7	1.0	



## Appendix 2: Sail Pond Soil Sample List

Sample Number	UTM Easting	UTM Northing	Datum	Zone	Sample Medium	pXRF Cu(ppm)	pXRF Pb(ppm)	pXRF Zn(ppm)	pXRF As(ppm)	pXRF Sb(ppm)	Check Analysis - Certificate Reference
5871	579585	5662296	NAD27	21	B-horizon soil	1.0	20.8	89.6	31.3	1.0	
5872	579609	5662295	NAD27	21	B-horizon soil	1.0	15.8	49.8	19.5	1.0	
5873	579638	5662301	NAD27	21	B-horizon soil	1.0	12.8	46.6	13.4	1.0	
5874	579661	5662301	NAD27	21	B-horizon soil	1.0	18.9	85.9	26.5	1.0	
5875	579710	5662310	NAD27	21	B-horizon soil	1.0	15.6	49.6	25.3	1.0	
5876	579887	5662301	NAD27	21	B-horizon soil	1.0	25.5	53.2	13.1	15.3	
5877	579958	5662302	NAD27	21	B-horizon soil	1.0	42.1	54.7	1.0	1.0	
5878	580035	5662301	NAD27	21	B-horizon soil	1.0	14.0	61.3	21.6	17.6	
5879	580148	5662503	NAD27	21	B-horizon soil	1.0	28.4	78.7	17.4	12.7	
5880	580121	5662499	NAD27	21	B-horizon soil	1.0	13.2	27.3	1.0	1.0	
5881	580097	5662494	NAD27	21	B-horizon soil	1.0	28.4	83.7	1.0	1.0	
5882	580068	5662498	NAD27	21	B-horizon soil	1.0	17.9	51.8	1.0	1.0	
5883	580049	5662493	NAD27	21	B-horizon soil	1.0	32.6	64.4	1.0	1.0	
5884	580020	5662496	NAD27	21	B-horizon soil	1.0	37.0	39.9	1.0	1.0	
5885	579792	5662502	NAD27	21	B-horizon soil	1.0	18.7	40.1	25.3	1.0	
5886	579772	5662505	NAD27	21	B-horizon soil	1.0	28.8	193.0	25.6	1.0	
5887	579753	5662497	NAD27	21	B-horizon soil	1.0	16.8	79.1	27.5	1.0	
5888	579739	5662500	NAD27	21	B-horizon soil	1.0	25.8	71.8	18.1	1.0	
5889	579720	5662502	NAD27	21	B-horizon soil	1.0	25.3	47.7	23.0	1.0	
5890	579692	5662508	NAD27	21	B-horizon soil	1.0	25.7	93.3	28.0	1.0	
5891	579671	5662506	NAD27	21	B-horizon soil	1.0	18.8	106.3	27.7	1.0	
5892	579569	5662503	NAD27	21	B-horizon soil	1.0	12.5	42.4	7.8	1.0	
5893	579552	5662510	NAD27	21	B-horizon soil	1.0	47.6	537.3	173.8	1.0	
5894	579526	5662510	NAD27	21	B-horizon soil	1.0	36.5	134.9	16.3	1.0	
5895	579498	5662505	NAD27	21	B-horizon soil	1.0	15.2	79.7	7.3	1.0	
5896	579469	5662503	NAD27	21	B-horizon soil	1.0	37.3	190.3	22.1	1.0	
8105	577167	5655122	NAD27	21	B-horizon soil	26.6	13.1	70.5	1.0	1.0	
8106	577117	5655130	NAD27	21	B-horizon soil	1.0	25.6	80.9	1.0	1.0	
8107	577101	5655167	NAD27	21	B-horizon soil	1.0	25.7	74.0	10.7	1.0	
8108	577078	5655194	NAD27	21	B-horizon soil	1.0	19.3	82.7	8.7	1.0	
8109	577062	5655210	NAD27	21	B-horizon soil	1.0	22.4	64.0	10.9	1.0	
8110	576928	5655223	NAD27	21	B-horizon soil	1.0	27.4	113.9	11.4	1.0	
8111	577161	5656104	NAD27	21	B-horizon soil	1.0	25.3	92.4	10.9	1.0	
8112	577212	5656102	NAD27	21	B-horizon soil	1.0	17.0	69.2	14.4	1.0	
8113	577234	5656101	NAD27	21	B-horizon soil	1.0	35.3	119.2	14.9	1.0	
8114	577259	5656100	NAD27	21	B-horizon soil	1.0	20.2	50.1	14.8	1.0	
8115	577285	5656099	NAD27	21	B-horizon soil	1.0	25.5	59.0	9.2	1.0	
8116	577312	5656101	NAD27	21	B-horizon soil	1.0	22.1	63.2	15.6	1.0	
8117	577338	5656100	NAD27	21	B-horizon soil	1.0	20.0	54.9	35.0	1.0	
8118	577359	5656101	NAD27	21	B-horizon soil	1.0	36.8	172.2	9.3	1.0	
8119	577388	5656095	NAD27	21	B-horizon soil	1.0	26.9	80.4	14.4	1.0	
8120	577419	5656099	NAD27	21	B-horizon soil	1.0	26.7	40.7	1.0	1.0	
8121	577438	5656102	NAD27	21	B-horizon soil	1.0	17.9	145.7	1.0	1.0	
8122	577469	5656097	NAD27	21	B-horizon soil	1.0	24.9	74.4	1.0	1.0	
8123	577488	5656100	NAD27	21	B-horizon soil	1.0	15.5	65.1	11.7	1.0	
8124	577517	5656105	NAD27	21	B-horizon soil	1.0	25.7	86.9	1.0	1.0	
8125	577548	5656106	NAD27	21	B-horizon soil	1.0	19.3	63.7	8.5	1.0	
8126	577572	5656098	NAD27	21	B-horizon soil	1.0	15.8	53.8	1.0	1.0	
8127	577599	5656101	NAD27	21	B-horizon soil	1.0	16.5	61.1	10.0	1.0	
8128	577627	5656090	NAD27	21	B-horizon soil	1.0	15.0	73.2	12.1	1.0	
8129	577651	5656100	NAD27	21	B-horizon soil	1.0	33.6	132.4	16.6	1.0	
8130	577682	5656104	NAD27	21	B-horizon soil	1.0	32.8	64.8	18.2	1.0	
8131	577718	5656103	NAD27	21	B-horizon soil	1.0	22.6	35.4	20.1	1.0	
8132	577750	5656102	NAD27	21	B-horizon soil	1.0	30.7	113.5	11.2	1.0	
8133	577787	5656097	NAD27	21	B-horizon soil	1.0	36.3	121.9	13.8	1.0	
8134	577809	5656096	NAD27	21	B-horizon soil	1.0	30.0	96.3	12.5	1.0	
8135	577832	5656095	NAD27	21	B-horizon soil	1.0	41.7	79.5	17.0	1.0	
8136	577873	5656098	NAD27	21	B-horizon soil	1.0	96.2	89.6	17.3	1.0	
8137	577899	5656106	NAD27	21	B-horizon soil	1.0	12.2	46.6	12.1	1.0	
8138	577915	5656104	NAD27	21	B-horizon soil	1.0	29.6	43.7	1.0	1.0	

## Appendix 2: Sail Pond Soil Sample List

Sample Number	UTM Easting	UTM Northing	Datum	Zone	Sample Medium	pXRF Cu(ppm)	pXRF Pb(ppm)	pXRF Zn(ppm)	pXRF As(ppm)	pXRF Sb(ppm)	Check Analysis - Certificate Reference
8139	577938	5656102	NAD27	21	B-horizon soil	1.0	24.0	54.6	9.8	1.0	
8140	577967	5656095	NAD27	21	B-horizon soil	1.0	27.5	105.1	16.8	1.0	
8141	577991	5656099	NAD27	21	B-horizon soil	1.0	19.5	28.3	15.9	1.0	
8142	578065	5656103	NAD27	21	B-horizon soil	1.0	20.5	50.3	11.8	20.8	
8143	578087	5656098	NAD27	21	B-horizon soil	1.0	27.7	46.8	1.0	1.0	
8144	578152	5656097	NAD27	21	B-horizon soil	1.0	33.1	65.2	1.0	1.0	
8145	578179	5656101	NAD27	21	B-horizon soil	1.0	14.0	81.6	13.5	1.0	
8146	578252	5656102	NAD27	21	B-horizon soil	1.0	33.5	81.6	13.9	1.0	
8147	578308	5656098	NAD27	21	B-horizon soil	1.0	49.2	119.6	10.7	1.0	
8148	578332	5656102	NAD27	21	B-horizon soil	1.0	16.7	52.2	12.2	1.0	
8149	578357	5656104	NAD27	21	B-horizon soil	1.0	21.2	42.7	1.0	12.7	
8150	578382	5656098	NAD27	21	B-horizon soil	1.0	27.4	95.2	13.8	1.0	
8151	578427	5656099	NAD27	21	B-horizon soil	1.0	20.4	103.9	1.0	1.0	
8152	578450	5656101	NAD27	21	B-horizon soil	1.0	18.5	122.4	1.0	1.0	
8153	578331	5655700	NAD27	21	B-horizon soil	1.0	21.1	49.1	11.5	1.0	
8154	578303	5655697	NAD27	21	B-horizon soil	1.0	27.2	57.7	1.0	1.0	
8155	578254	5655695	NAD27	21	B-horizon soil	1.0	20.8	54.7	13.9	1.0	
8156	578173	5655702	NAD27	21	B-horizon soil	1.0	26.3	189.3	11.9	1.0	
8157	578148	5655700	NAD27	21	B-horizon soil	1.0	12.5	71.7	13.0	1.0	
8158	578123	5655701	NAD27	21	B-horizon soil	1.0	20.8	125.0	11.7	1.0	
8159	578089	5655704	NAD27	21	B-horizon soil	1.0	20.6	67.6	1.0	1.0	
8160	578034	5655700	NAD27	21	B-horizon soil	1.0	23.7	48.5	10.5	1.0	
8161	577876	5655700	NAD27	21	B-horizon soil	1.0	21.1	64.3	11.2	1.0	
8162	573879	5649199	NAD27	21	B-horizon soil	1.0	28.3	76.7	1.0	1.0	
8163	573903	5649200	NAD27	21	B-horizon soil	1.0	15.2	35.8	1.0	1.0	
8164	573933	5649201	NAD27	21	B-horizon soil	1.0	25.4	69.3	8.6	1.0	
8165	573963	5649198	NAD27	21	B-horizon soil	1.0	35.0	148.7	13.1	1.0	
8166	573989	5649198	NAD27	21	B-horizon soil	1.0	34.3	148.9	9.3	1.0	
8167	574019	5649199	NAD27	21	B-horizon soil	1.0	33.6	133.1	12.0	1.0	
8168	574052	5649201	NAD27	21	B-horizon soil	1.0	29.3	99.3	12.1	1.0	
8169	574095	5649199	NAD27	21	B-horizon soil	1.0	24.5	158.9	10.0	1.0	
8170	574135	5649201	NAD27	21	B-horizon soil	1.0	17.3	113.6	8.3	1.0	
8171	574157	5649200	NAD27	21	B-horizon soil	1.0	21.7	54.8	1.0	1.0	
8172	574187	5649201	NAD27	21	B-horizon soil	1.0	20.2	61.4	11.8	1.0	
8173	574223	5649197	NAD27	21	B-horizon soil	1.0	26.6	135.4	9.8	1.0	
8174	574253	5649197	NAD27	21	B-horizon soil	1.0	24.7	121.5	16.5	1.0	
8175	574282	5649201	NAD27	21	B-horizon soil	1.0	20.7	86.0	1.0	1.0	
8176	574311	5649201	NAD27	21	B-horizon soil	1.0	26.3	82.9	18.0	1.0	
8177	574348	5649205	NAD27	21	B-horizon soil	1.0	31.7	73.9	1.0	1.0	
8178	574373	5649202	NAD27	21	B-horizon soil	1.0	42.6	161.9	12.6	1.0	
8179	574402	5649202	NAD27	21	B-horizon soil	1.0	33.1	91.2	22.0	1.0	
8180	574427	5649200	NAD27	21	B-horizon soil	1.0	25.4	122.4	11.0	1.0	
8181	574445	5649201	NAD27	21	B-horizon soil	1.0	18.2	46.1	19.1	1.0	
8182	574210	5648797	NAD27	21	B-horizon soil	0.4	16.7	60.8	9.9	1.0	
8183	574185	5648801	NAD27	21	B-horizon soil	24.6	17.3	48.6	12.2	1.0	
8184	574155	5648799	NAD27	21	B-horizon soil	1.0	33.6	182.8	1.0	1.0	
8185	574126	5648801	NAD27	21	B-horizon soil	1.0	30.3	187.9	9.2	1.0	
8186	574101	5648801	NAD27	21	B-horizon soil	1.0	18.2	112.5	6.0	1.0	
8187	574059	5648798	NAD27	21	B-horizon soil	1.0	16.5	56.5	6.2	1.0	
8188	574028	5648798	NAD27	21	B-horizon soil	8.8	27.3	153.5	13.5	1.0	
8189	573997	5648798	NAD27	21	B-horizon soil	4.9	24.5	89.4	8.9	1.0	
8190	573970	5648798	NAD27	21	B-horizon soil	9.4	34.1	128.2	12.3	1.0	
8191	573944	5648796	NAD27	21	B-horizon soil	1.0	26.8	48.4	6.7	1.0	
8192	573927	5648796	NAD27	21	B-horizon soil	16.1	17.2	36.4	20.3	1.0	
8193	573890	5648404	NAD27	21	B-horizon soil	1.0	19.5	47.1	14.4	1.0	
8194	573916	5648403	NAD27	21	B-horizon soil	1.0	15.6	27.7	1.0	1.0	
8195	573940	5648402	NAD27	21	B-horizon soil	1.0	27.5	68.8	1.0	1.0	
8196	573970	5648402	NAD27	21	B-horizon soil	1.0	20.9	83.8	10.2	1.0	
8197	573995	5648402	NAD27	21	B-horizon soil	1.0	20.6	51.2	12.0	1.0	
8198	574021	5648400	NAD27	21	B-horizon soil	1.0	15.9	47.2	1.0	1.0	

## Appendix 2: Sail Pond Soil Sample List

Sample Number	UTM Easting	UTM Northing	Datum	Zone	Sample Medium	pXRF Cu(ppm)	pXRF Pb(ppm)	pXRF Zn(ppm)	pXRF As(ppm)	pXRF Sb(ppm)	Check Analysis - Certificate Reference
8199	574044	5648402	NAD27	21	B-horizon soil	26.9	33.1	96.6	9.0	1.0	
8200	574057	5648400	NAD27	21	B-horizon soil	1.0	26.1	46.9	28.9	1.0	
8901	578896	5657704	NAD27	21	B-horizon soil	1.0	14.6	71.1	17.4	16.3	
8902	578928	5657702	NAD27	21	B-horizon soil	1.0	21.9	105.6	8.2	14.7	
8903	578954	5657701	NAD27	21	B-horizon soil	1.0	19.0	85.8	12.6	17.4	
8904	578982	5657704	NAD27	21	B-horizon soil	1.0	19.5	54.3	1.0	1.0	
8905	579036	5657696	NAD27	21	B-horizon soil	1.0	23.1	30.9	1.0	1.0	
8906	579057	5657702	NAD27	21	B-horizon soil	1.0	28.0	40.5	14.5	1.0	
8907	579072	5657696	NAD27	21	B-horizon soil	1.0	19.2	102.7	29.2	1.0	
8908	579102	5657699	NAD27	21	B-horizon soil	1.0	26.5	87.2	11.5	1.0	
8909	579139	5657696	NAD27	21	B-horizon soil	1.0	29.9	87.1	17.1	17.2	
8910	579165	5657699	NAD27	21	B-horizon soil	1.0	18.8	46.0	1.0	20.1	
8911	579192	5657703	NAD27	21	B-horizon soil	1.0	22.9	43.0	1.0	14.7	
8912	579221	5657696	NAD27	21	B-horizon soil	1.0	20.7	86.9	8.4	1.0	
8913	579247	5657703	NAD27	21	B-horizon soil	1.0	42.3	96.1	27.8	1.0	
8914	579280	5657702	NAD27	21	B-horizon soil	1.0	8.0	29.8	7.8	1.0	
8915	579373	5657705	NAD27	21	B-horizon soil	1.0	14.1	16.5	1.0	13.3	
8916	579396	5657697	NAD27	21	B-horizon soil	1.0	17.0	55.0	1.0	26.0	
8917	579426	5657700	NAD27	21	B-horizon soil	1.0	12.8	52.9	1.0	1.0	
8918	579457	5657701	NAD27	21	B-horizon soil	1.0	20.0	60.2	1.0	22.1	
8919	579490	5657702	NAD27	21	B-horizon soil	1.0	20.7	76.0	16.3	1.0	
8920	579523	5657697	NAD27	21	B-horizon soil	1.0	34.5	173.6	1.0	1.0	
8921	579541	5657697	NAD27	21	B-horizon soil	1.0	26.7	158.5	46.0	1.0	
8922	579565	5657700	NAD27	21	B-horizon soil	1.0	21.3	141.2	17.6	1.0	
8923	579589	5657697	NAD27	21	B-horizon soil	1.0	22.5	70.7	44.2	1.0	
8924	579640	5657701	NAD27	21	B-horizon soil	1.0	19.6	81.1	10.7	1.0	
8925	579672	5657696	NAD27	21	B-horizon soil	1.0	30.1	62.6	22.8	1.0	
8926	579698	5657701	NAD27	21	B-horizon soil	1.0	25.7	105.1	22.0	1.0	
8927	579861	5657703	NAD27	21	B-horizon soil	1.0	25.4	76.2	12.8	1.0	
8928	579928	5657697	NAD27	21	B-horizon soil	1.0	27.0	75.2	11.1	1.0	
8929	579953	5657702	NAD27	21	B-horizon soil	28.2	25.6	56.2	14.1	1.0	
8930	579982	5657703	NAD27	21	B-horizon soil	43.7	19.9	105.1	14.0	1.0	
8931	580012	5657697	NAD27	21	B-horizon soil	38.8	22.4	105.5	29.4	1.0	
8932	580033	5657704	NAD27	21	B-horizon soil	28.7	15.5	79.9	13.2	1.0	
8933	580060	5657699	NAD27	21	B-horizon soil	1.0	26.6	78.4	15.5	1.0	
8934	580076	5657705	NAD27	21	B-horizon soil	1.0	11.9	113.5	27.9	1.0	
8935	580106	5657700	NAD27	21	B-horizon soil	33.7	22.0	88.4	17.1	1.0	
8936	578149	5658300	NAD27	21	B-horizon soil	1.0	13.9	25.6	13.9	1.0	
8937	578176	5658299	NAD27	21	B-horizon soil	1.0	14.7	44.5	13.9	1.0	
8938	578202	5658301	NAD27	21	B-horizon soil	1.0	16.4	54.9	14.0	1.0	
8939	578237	5658301	NAD27	21	B-horizon soil	1.0	12.9	52.2	21.5	1.0	
8940	578266	5658303	NAD27	21	B-horizon soil	1.0	20.5	68.6	13.1	1.0	
8941	578295	5658301	NAD27	21	B-horizon soil	1.0	29.3	74.3	11.3	11.4	
8942	578320	5658299	NAD27	21	B-horizon soil	1.0	27.8	143.3	14.4	1.0	
8943	578345	5658298	NAD27	21	B-horizon soil	1.0	25.1	51.9	12.0	1.0	
8944	578368	5658296	NAD27	21	B-horizon soil	1.0	17.2	66.0	12.9	1.0	
8945	578397	5658298	NAD27	21	B-horizon soil	1.0	27.4	46.2	12.6	1.0	
8946	578463	5658301	NAD27	21	B-horizon soil	1.0	17.2	55.9	1.0	1.0	
8947	578493	5658299	NAD27	21	B-horizon soil	1.0	18.7	34.9	1.0	1.0	
8948	578562	5658299	NAD27	21	B-horizon soil	1.0	31.5	30.7	1.0	1.0	
8949	578633	5658298	NAD27	21	B-horizon soil	1.0	36.5	84.5	15.8	1.0	
8950	578662	5658303	NAD27	21	B-horizon soil	1.0	21.7	46.3	15.0	1.0	
8951	578709	5658302	NAD27	21	B-horizon soil	1.0	13.9	37.3	1.0	1.0	
8952	578754	5658297	NAD27	21	B-horizon soil	1.0	28.7	91.7	10.8	1.0	
8953	578787	5658302	NAD27	21	B-horizon soil	1.0	24.7	78.8	20.0	1.0	
8954	578818	5658299	NAD27	21	B-horizon soil	1.0	22.4	85.6	9.4	1.0	
8955	578846	5658302	NAD27	21	B-horizon soil	1.0	20.7	63.6	11.3	1.0	
8956	578875	5658296	NAD27	21	B-horizon soil	1.0	14.3	54.7	13.6	25.8	
8957	578905	5658297	NAD27	21	B-horizon soil	1.0	22.8	62.8	12.1	1.0	
8958	578945	5658300	NAD27	21	B-horizon soil	1.0	14.3	32.4	29.5	1.0	

## Appendix 2: Sail Pond Soil Sample List

Sample Number	UTM Easting	UTM Northing	Datum	Zone	Sample Medium	pXRF Cu(ppm)	pXRF Pb(ppm)	pXRF Zn(ppm)	pXRF As(ppm)	pXRF Sb(ppm)	Check Analysis - Certificate Reference
8959	578975	5658310	NAD27	21	B-horizon soil	1.0	14.5	39.3	36.1	1.0	
8960	579000	5658299	NAD27	21	B-horizon soil	1.0	28.1	51.8	14.6	1.0	
8961	579031	5658301	NAD27	21	B-horizon soil	1.0	60.1	168.1	29.1	1.0	
8962	579063	5658300	NAD27	21	B-horizon soil	1.0	23.5	66.4	13.3	1.0	
8963	579093	5658303	NAD27	21	B-horizon soil	1.0	22.1	42.4	8.7	1.0	
8964	579124	5658299	NAD27	21	B-horizon soil	1.0	593.4	199.0	36.6	1.0	
8965	579150	5658301	NAD27	21	B-horizon soil	1.0	15.3	48.7	32.2	1.0	
8966	579180	5658298	NAD27	21	B-horizon soil	1.0	14.6	105.1	12.2	1.0	
8967	579211	5658300	NAD27	21	B-horizon soil	1.0	22.9	49.8	19.5	1.0	
8968	579240	5658304	NAD27	21	B-horizon soil	33.7	37.7	169.1	19.7	1.0	
8969	579278	5658300	NAD27	21	B-horizon soil	1.0	24.5	53.5	1.0	16.8	
8970	579322	5658298	NAD27	21	B-horizon soil	1.0	13.2	61.6	9.0	22.1	
8971	579354	5658299	NAD27	21	B-horizon soil	1.0	29.6	72.4	17.6	1.0	
8972	579393	5658300	NAD27	21	B-horizon soil	1.0	13.5	59.5	11.4	1.0	
8973	579423	5658301	NAD27	21	B-horizon soil	1.0	18.7	56.6	11.7	1.0	
8974	579472	5658299	NAD27	21	B-horizon soil	1.0	9.4	63.4	15.0	1.0	
8975	579507	5658298	NAD27	21	B-horizon soil	1.0	13.4	38.2	9.4	1.0	
8976	579534	5658300	NAD27	21	B-horizon soil	1.0	34.4	126.5	14.6	1.0	
8977	579577	5658299	NAD27	21	B-horizon soil	1.0	23.8	78.1	36.0	1.0	
8978	579635	5658299	NAD27	21	B-horizon soil	1.0	1.0	41.7	14.2	1.0	
8979	579668	5658299	NAD27	21	B-horizon soil	1.0	27.3	153.8	15.1	1.0	
8980	579704	5658298	NAD27	21	B-horizon soil	1.0	17.6	40.0	1.0	13.3	
8981	579748	5658300	NAD27	21	B-horizon soil	1.0	18.4	82.6	13.6	1.0	
8982	579783	5658298	NAD27	21	B-horizon soil	1.0	17.8	85.7	16.9	1.0	
8983	579816	5658299	NAD27	21	B-horizon soil	1.0	11.7	62.0	16.1	25.4	
8984	579849	5658303	NAD27	21	B-horizon soil	1.0	17.3	58.5	10.1	14.4	
8985	579888	5658294	NAD27	21	B-horizon soil	1.0	17.3	70.6	19.4	1.0	
8986	579914	5658298	NAD27	21	B-horizon soil	1.0	25.7	103.1	106.3	1.0	
8987	579976	5658302	NAD27	21	B-horizon soil	1.0	19.7	56.7	14.0	1.0	
8988	580003	5658300	NAD27	21	B-horizon soil	30.4	37.8	78.9	17.9	1.0	
8989	580089	5658295	NAD27	21	B-horizon soil	1.0	14.9	49.8	12.7	1.0	
8990	580156	5658297	NAD27	21	B-horizon soil	1.0	1.0	21.8	9.3	1.0	
8991	578169	5658103	NAD27	21	B-horizon soil	1.0	16.1	60.9	12.0	1.0	
8992	578196	5658100	NAD27	21	B-horizon soil	1.0	12.0	34.2	12.5	12.3	
8993	578226	5658098	NAD27	21	B-horizon soil	1.0	29.2	102.2	10.2	1.0	
8994	578253	5658098	NAD27	21	B-horizon soil	1.0	14.3	83.0	1.0	1.0	
8995	578348	5658096	NAD27	21	B-horizon soil	1.0	23.2	95.2	18.6	1.0	
8996	578374	5658099	NAD27	21	B-horizon soil	1.0	32.7	120.8	10.7	1.0	
8997	578417	5658097	NAD27	21	B-horizon soil	1.0	19.4	66.3	17.4	21.3	
8998	578449	5658099	NAD27	21	B-horizon soil	1.0	23.5	123.4	13.4	11.8	
8999	578475	5658100	NAD27	21	B-horizon soil	1.0	18.0	84.9	9.4	23.1	
9000	578525	5658100	NAD27	21	B-horizon soil	1.0	37.1	115.9	18.9	12.9	
9701	574226	5648397	NAD27	21	B-horizon soil	1.0	11.6	38.4	14.1	1.0	
9702	574250	5648397	NAD27	21	B-horizon soil	1.0	16.6	51.6	1.0	1.0	
9703	574275	5648400	NAD27	21	B-horizon soil	1.0	19.8	123.1	14.7	1.0	
9704	574303	5648402	NAD27	21	B-horizon soil	1.0	22.0	73.1	1.0	1.0	
9705	574350	5648399	NAD27	21	B-horizon soil	1.0	13.5	51.8	13.2	1.0	
9706	574399	5648401	NAD27	21	B-horizon soil	1.0	20.6	93.0	14.6	1.0	
9707	574422	5648395	NAD27	21	B-horizon soil	1.0	22.6	97.7	13.9	1.0	
9708	574446	5648400	NAD27	21	B-horizon soil	1.0	19.4	70.4	8.4	1.0	
9709	577117	5656496	NAD27	21	B-horizon soil	1.0	19.0	38.0	1.0	1.0	
9710	576991	5656502	NAD27	21	B-horizon soil	1.0	30.9	113.7	1.0	1.0	
9711	576963	5656506	NAD27	21	B-horizon soil	1.0	18.9	73.2	1.0	1.0	
9712	576937	5656500	NAD27	21	B-horizon soil	1.0	28.2	117.8	9.4	1.0	
9713	576912	5656499	NAD27	21	B-horizon soil	1.0	21.3	109.9	8.2	22.0	
9714	576882	5656500	NAD27	21	B-horizon soil	1.0	25.5	49.3	14.8	1.0	
9715	576856	5656501	NAD27	21	B-horizon soil	1.0	19.0	61.6	18.2	1.0	
9716	576822	5656498	NAD27	21	B-horizon soil	1.0	23.5	68.5	1.0	1.0	
9717	576791	5656497	NAD27	21	B-horizon soil	1.0	27.2	305.2	16.3	1.0	
9718	576766	5656502	NAD27	21	B-horizon soil	1.0	24.2	62.4	1.0	1.0	

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Sample Number	UTM Easting	UTM Northing	Datum	Zone	Sample Medium	pXRF Cu(ppm)	pXRF Pb(ppm)	pXRF Zn(ppm)	pXRF As(ppm)	pXRF Sb(ppm)	Check Analysis - Certificate Reference
9719	576740	5656502	NAD27	21	B-horizon soil	1.0	38.1	69.7	1.0	13.5	
9720	576712	5656501	NAD27	21	B-horizon soil	1.0	22.9	39.4	8.8	14.4	
9721	576658	5656498	NAD27	21	B-horizon soil	1.0	28.7	92.7	13.2	11.6	
9722	576630	5656499	NAD27	21	B-horizon soil	1.0	24.3	79.0	9.6	1.0	
9723	576604	5656498	NAD27	21	B-horizon soil	1.0	28.1	160.8	1.0	1.0	
9724	576573	5656500	NAD27	21	B-horizon soil	1.0	27.3	61.9	8.6	1.0	
9725	576544	5656502	NAD27	21	B-horizon soil	1.0	25.4	79.8	1.0	14.3	
9726	576520	5656502	NAD27	21	B-horizon soil	1.0	14.0	34.5	12.4	13.6	
9727	576492	5656501	NAD27	21	B-horizon soil	1.0	22.5	86.6	1.0	1.0	
9728	576401	5656501	NAD27	21	B-horizon soil	1.0	15.5	70.6	13.5	17.5	
9729	576433	5656502	NAD27	21	B-horizon soil	1.0	21.2	66.4	20.9	17.9	
9730	576404	5656497	NAD27	21	B-horizon soil	1.0	18.4	77.6	10.0	1.0	
9731	576373	5656497	NAD27	21	B-horizon soil	1.0	27.1	56.4	9.9	1.0	
9732	576216	5656500	NAD27	21	B-horizon soil	1.0	9.8	33.0	7.3	1.0	
9733	576138	5656497	NAD27	21	B-horizon soil	1.0	15.3	46.8	8.2	1.0	
9734	576109	5656500	NAD27	21	B-horizon soil	1.0	27.6	96.3	12.5	1.0	
9735	576082	5656500	NAD27	21	B-horizon soil	1.0	14.5	63.2	17.6	1.0	
9736	576058	5656497	NAD27	21	B-horizon soil	1.0	21.0	59.5	13.6	1.0	
9737	576036	5656501	NAD27	21	B-horizon soil	1.0	11.7	46.0	1.0	1.0	
9738	575886	5656495	NAD27	21	B-horizon soil	34.7	31.7	129.8	25.3	1.0	
9739	575860	5656505	NAD27	21	B-horizon soil	1.0	14.8	43.4	11.3	1.0	
9740	575831	5656505	NAD27	21	B-horizon soil	1.0	20.6	48.1	10.3	1.0	
9741	575787	5656500	NAD27	21	B-horizon soil	1.0	20.7	44.6	15.4	1.0	
9742	575710	5656497	NAD27	21	B-horizon soil	1.0	19.1	79.3	19.1	1.0	
9743	575691	5656501	NAD27	21	B-horizon soil	1.0	35.8	55.4	9.4	1.0	
9744	575640	5656498	NAD27	21	B-horizon soil	1.0	24.1	101.8	1.0	1.0	
9745	575550	5656497	NAD27	21	B-horizon soil	1.0	24.2	89.7	12.5	1.0	
9746	575528	5656499	NAD27	21	B-horizon soil	1.0	15.2	60.2	12.5	1.0	
9747	575496	5656498	NAD27	21	B-horizon soil	1.0	17.6	50.2	1.0	1.0	
9748	575465	5656500	NAD27	21	B-horizon soil	1.0	24.9	112.5	12.7	1.0	
9749	579474	5656899	NAD27	21	B-horizon soil	1.0	19.1	72.7	9.6	1.0	
9750	579451	5656899	NAD27	21	B-horizon soil	1.0	17.7	67.0	9.9	12.8	
9751	579424	5656901	NAD27	21	B-horizon soil	1.0	18.0	53.0	11.1	24.5	
9752	579397	5656898	NAD27	21	B-horizon soil	1.0	19.7	62.8	1.0	20.7	
9753	579188	5656904	NAD27	21	B-horizon soil	1.0	1.0	32.0	12.1	1.0	
9754	579055	5656898	NAD27	21	B-horizon soil	1.0	17.1	84.9	1.0	26.3	
9755	579026	5656895	NAD27	21	B-horizon soil	1.0	24.9	79.9	12.2	18.4	
9756	578998	5656902	NAD27	21	B-horizon soil	1.0	27.7	54.8	8.5	1.0	
9757	578974	5656903	NAD27	21	B-horizon soil	1.0	27.2	54.7	14.3	1.0	
9758	578944	5656902	NAD27	21	B-horizon soil	1.0	23.2	94.4	1.0	1.0	
9759	578915	5656910	NAD27	21	B-horizon soil	1.0	20.1	25.3	10.2	1.0	
9760	578888	5656900	NAD27	21	B-horizon soil	1.0	13.2	47.6	13.0	1.0	
9761	578872	5656906	NAD27	21	B-horizon soil	1.0	28.9	38.7	11.2	1.0	
9762	578794	5656910	NAD27	21	B-horizon soil	1.0	21.6	54.4	11.9	12.3	
9763	578757	5656900	NAD27	21	B-horizon soil	1.0	19.7	61.6	14.1	1.0	
9764	578729	5656897	NAD27	21	B-horizon soil	1.0	29.7	61.9	1.0	1.0	
9765	578701	5656903	NAD27	21	B-horizon soil	1.0	38.1	58.2	1.0	1.0	
9766	578664	5656902	NAD27	21	B-horizon soil	1.0	34.8	91.9	1.0	1.0	
9767	578655	5656900	NAD27	21	B-horizon soil	1.0	13.9	70.9	9.0	1.0	
9768	578611	5656907	NAD27	21	B-horizon soil	1.0	24.2	83.3	14.0	1.0	
9769	578878	5656914	NAD27	21	B-horizon soil	1.0	32.7	94.7	18.4	1.0	
9770	578557	5656910	NAD27	21	B-horizon soil	1.0	34.3	67.5	35.0	1.0	
9771	578528	5656908	NAD27	21	B-horizon soil	1.0	16.7	43.0	17.1	1.0	
9772	578491	5656915	NAD27	21	B-horizon soil	1.0	1.0	17.4	12.2	1.0	
9773	578669	5657312	NAD27	21	B-horizon soil	34.8	18.7	152.0	38.3	1.0	
9774	578959	5657311	NAD27	21	B-horizon soil	33.6	15.0	87.1	18.5	1.0	
9775	578981	5657297	NAD27	21	B-horizon soil	1.0	25.5	40.8	16.9	1.0	
9776	579004	5657297	NAD27	21	B-horizon soil	1.0	15.9	87.3	8.0	1.0	
9777	579027	5657297	NAD27	21	B-horizon soil	1.0	13.9	52.1	12.4	1.0	
9778	579062	5657312	NAD27	21	B-horizon soil	1.0	11.1	25.8	1.0	1.0	

## Appendix 2: Sail Pond Soil Sample List

Sample Number	UTM Easting	UTM Northing	Datum	Zone	Sample Medium	pXRF Cu(ppm)	pXRF Pb(ppm)	pXRF Zn(ppm)	pXRF As(ppm)	pXRF Sb(ppm)	Check Analysis - Certificate Reference
9779	579154	5657295	NAD27	21	B-horizon soil	1.0	12.5	28.2	12.5	1.0	
9780	579214	5657296	NAD27	21	B-horizon soil	31.5	26.7	84.4	23.8	1.0	
9781	579298	5657300	NAD27	21	B-horizon soil	1.0	22.0	29.4	39.7	1.0	
9782	579345	5657302	NAD27	21	B-horizon soil	1.0	17.6	48.0	8.6	34.4	
9783	579380	5657297	NAD27	21	B-horizon soil	1.0	17.2	43.2	14.5	1.0	
9784	579452	5657300	NAD27	21	B-horizon soil	1.0	24.1	99.9	8.9	1.0	
9785	579470	5657310	NAD27	21	B-horizon soil	1.0	14.9	65.3	19.4	21.7	
9786	579501	5657300	NAD27	21	B-horizon soil	1.0	20.1	64.1	1.0	20.4	
9787	579519	5657305	NAD27	21	B-horizon soil	1.0	21.1	43.6	10.3	17.5	
9788	579559	5657287	NAD27	21	B-horizon soil	1.0	36.0	101.9	13.9	1.0	
9789	579598	5657300	NAD27	21	B-horizon soil	1.0	21.9	79.6	20.5	1.0	
9790	579639	5657297	NAD27	21	B-horizon soil	1.0	15.8	56.8	8.1	1.0	
9791	579697	5657293	NAD27	21	B-horizon soil	1.0	21.4	186.8	12.7	1.0	
9792	579742	5657297	NAD27	21	B-horizon soil	1.0	27.8	145.9	1.0	1.0	
9793	579769	5657300	NAD27	21	B-horizon soil	1.0	21.3	73.8	16.6	1.0	
9794	577509	5657703	NAD27	21	B-horizon soil	1.0	21.7	77.8	17.5	20.5	
9795	577488	5657709	NAD27	21	B-horizon soil	1.0	22.7	44.2	15.0	1.0	
9796	577472	5657694	NAD27	21	B-horizon soil	1.0	40.3	76.9	16.9	1.0	
9797	577442	5657705	NAD27	21	B-horizon soil	1.0	18.1	58.6	11.2	1.0	
9798	577410	5657710	NAD27	21	B-horizon soil	1.0	21.1	73.6	16.7	1.0	
9799	577382	5657697	NAD27	21	B-horizon soil	1.0	17.7	80.7	13.0	1.0	
9800	577359	5657702	NAD27	21	B-horizon soil	1.0	16.1	63.5	14.4	1.0	
9961	577330	5657700	NAD27	21	B-horizon soil	1.0	31.0	63.8	22.3	1.0	
9962	577300	5657703	NAD27	21	B-horizon soil	1.0	12.0	49.4	11.7	1.0	
9963	577277	5657700	NAD27	21	B-horizon soil	1.0	30.3	68.6	31.8	1.0	
9964	577246	5657700	NAD27	21	B-horizon soil	1.0	38.8	51.8	27.5	1.0	
9965	577210	5657700	NAD27	21	B-horizon soil	1.0	21.0	44.7	32.2	1.0	
9966	577187	5657698	NAD27	21	B-horizon soil	1.0	10.9	30.0	11.9	1.0	
9967	576771	5657700	NAD27	21	B-horizon soil	1.0	52.1	62.5	43.8	1.0	
9968	576743	5657705	NAD27	21	B-horizon soil	1.0	37.9	60.3	26.7	1.0	
9969	576661	5657700	NAD27	21	B-horizon soil	1.0	23.6	44.7	1.0	1.0	
9970	576631	5657700	NAD27	21	B-horizon soil	1.0	27.7	79.8	17.3	1.0	
9971	576606	5657700	NAD27	21	B-horizon soil	1.0	1.0	17.9	8.6	1.0	
9972	576580	5657701	NAD27	21	B-horizon soil	1.0	12.5	83.7	17.0	1.0	
9973	576552	5657700	NAD27	21	B-horizon soil	1.0	18.4	33.8	1.0	1.0	
9974	576522	5657700	NAD27	21	B-horizon soil	35.0	72.8	117.9	41.4	1.0	
9975	576491	5657700	NAD27	21	B-horizon soil	1.0	14.2	67.7	19.1	1.0	
9976	576466	5657700	NAD27	21	B-horizon soil	1.0	11.6	38.8	15.9	17.6	
9977	576440	5657700	NAD27	21	B-horizon soil	33.5	30.4	88.7	22.5	14.4	
9978	576427	5657700	NAD27	21	B-horizon soil	1.0	39.1	131.6	24.4	1.0	
9979	576402	5657700	NAD27	21	B-horizon soil	1.0	46.0	72.1	33.0	1.0	
9980	576226	5657700	NAD27	21	B-horizon soil	1.0	36.2	100.0	10.0	19.7	
9981	576059	5657700	NAD27	21	B-horizon soil	1.0	25.4	75.4	1.0	27.7	
9982	576029	5657700	NAD27	21	B-horizon soil	1.0	26.9	91.1	19.6	1.0	
9983	575958	5657700	NAD27	21	B-horizon soil	1.0	19.6	79.6	15.8	1.0	
9984	578402	5657700	NAD27	21	B-horizon soil	1.0	21.3	130.3	21.3	1.0	
9985	578435	5657700	NAD27	21	B-horizon soil	1.0	39.9	100.5	1.0	1.0	
9986	578455	5657698	NAD27	21	B-horizon soil	1.0	28.3	48.0	1.0	1.0	
9987	578477	5657703	NAD27	21	B-horizon soil	32.9	40.1	138.0	22.0	1.0	
9988	578519	5657697	NAD27	21	B-horizon soil	1.0	30.3	72.6	22.3	13.3	
9989	578539	5657697	NAD27	21	B-horizon soil	1.0	24.2	77.4	20.0	1.0	
9990	578574	5657704	NAD27	21	B-horizon soil	1.0	19.5	175.0	14.2	1.0	
9991	578607	5657704	NAD27	21	B-horizon soil	1.0	24.5	119.4	10.3	1.0	
9992	578627	5657699	NAD27	21	B-horizon soil	1.0	28.7	68.8	16.0	1.0	
9993	578569	5657699	NAD27	21	B-horizon soil	1.0	17.1	71.6	15.3	1.0	
9994	578694	5657698	NAD27	21	B-horizon soil	1.0	18.7	48.4	1.0	1.0	
9995	578727	5657699	NAD27	21	B-horizon soil	1.0	34.2	68.9	17.1	1.0	
9996	578755	5657697	NAD27	21	B-horizon soil	1.0	21.9	76.6	7.9	1.0	
9997	578787	5657700	NAD27	21	B-horizon soil	1.0	26.4	74.6	10.8	1.0	
9998	578816	5657697	NAD27	21	B-horizon soil	1.0	17.7	86.9	11.7	27.2	



## Appendix 2: Sail Pond Soil Sample List

Sample Number	UTM Easting	UTM Northing	Datum	Zone	Sample Medium	pXRF Cu(ppm)	pXRF Pb(ppm)	pXRF Zn(ppm)	pXRF As(ppm)	pXRF Sb(ppm)	Check Analysis - Certificate Reference
9999	578845	5657699	NAD27	21	B-horizon soil	1.0	12.9	81.7	9.1	14.6	
10000	578870	5657697	NAD27	21	B-horizon soil	1.0	21.4	69.9	11.6	27.1	
10001	576293	5652703	NAD27	21	B-horizon soil	1.0	19.0	112.8	1.0	1.0	
10002	576318	5652711	NAD27	21	B-horizon soil	63.6	34.7	115.0	13.8	1.0	
10003	576341	5652703	NAD27	21	B-horizon soil	1.0	25.4	97.2	1.0	1.0	
10004	576367	5652698	NAD27	21	B-horizon soil	33.7	32.2	116.4	19.1	1.0	
10005	576394	5652698	NAD27	21	B-horizon soil	1.0	21.3	282.3	10.1	1.0	
10006	576419	5652689	NAD27	21	B-horizon soil	1.0	33.4	164.1	10.7	1.0	
10007	576442	5652691	NAD27	21	B-horizon soil	104.6	34.2	97.6	24.1	1.0	
10008	576467	5652683	NAD27	21	B-horizon soil	40.3	31.5	123.0	1.0	1.0	
10009	576492	5652691	NAD27	21	B-horizon soil	1.0	18.5	119.4	1.0	1.0	
10010	576516	5652698	NAD27	21	B-horizon soil	1.0	18.8	154.9	9.5	1.0	
10011	576544	5652698	NAD27	21	B-horizon soil	40.5	22.1	135.7	11.4	1.0	
10012	576571	5652695	NAD27	21	B-horizon soil	28.6	23.9	198.2	19.6	1.0	
10013	576595	5652700	NAD27	21	B-horizon soil	47.1	25.8	120.2	11.9	1.0	
10014	576639	5652694	NAD27	21	B-horizon soil	37.0	13.8	60.9	13.0	1.0	
10015	576667	5652696	NAD27	21	B-horizon soil	1.0	13.8	98.7	15.1	1.0	
10016	576692	5652664	NAD27	21	B-horizon soil	1.0	25.9	74.6	1.0	12.0	
10017	576752	5652685	NAD27	21	B-horizon soil	1.0	1.0	51.8	8.5	1.0	
10018	576775	5652698	NAD27	21	B-horizon soil	1.0	17.9	51.3	1.0	1.0	
10019	576798	5652702	NAD27	21	B-horizon soil	1.0	16.0	89.1	1.0	1.0	
10020	576820	5652697	NAD27	21	B-horizon soil	1.0	1.0	38.3	9.9	1.0	
10021	577000	5652903	NAD27	21	B-horizon soil	1.0	13.0	46.2	1.0	1.0	EA 378-1715628
10022	576975	5652909	NAD27	21	B-horizon soil	1.0	17.5	66.0	1.0	1.0	EA 378-1715628
10023	576941	5652909	NAD27	21	B-horizon soil	1.0	12.9	76.2	15.4	1.0	EA 378-1715628
10024	576919	5652904	NAD27	21	B-horizon soil	1.0	1.0	25.8	1.0	1.0	EA 378-1715628
10025	576872	5652909	NAD27	21	B-horizon soil	41.9	22.6	91.8	1.0	1.0	EA 378-1715628
10026	576852	5652917	NAD27	21	B-horizon soil	1.0	1.0	80.6	10.8	1.0	EA 378-1715628
10027	576817	5652910	NAD27	21	B-horizon soil	1.0	22.5	107.3	1.0	1.0	EA 378-1715628
10028	576785	5652914	NAD27	21	B-horizon soil	1.0	15.7	61.6	1.0	1.0	EA 378-1715628
10029	576758	5652910	NAD27	21	B-horizon soil	1.0	11.8	42.8	10.9	1.0	EA 378-1715628
10030	576738	5652908	NAD27	21	B-horizon soil	1.0	11.2	37.5	1.0	1.0	EA 378-1715628
10031	576710	5652911	NAD27	21	B-horizon soil	1.0	35.4	150.4	19.8	1.0	EA 378-1715628
10032	576676	5652917	NAD27	21	B-horizon soil	42.4	25.2	63.3	13.9	1.0	EA 378-1715628
10033	576601	5652896	NAD27	21	B-horizon soil	1.0	12.5	77.8	16.1	1.0	EA 378-1715628
10034	576574	5652892	NAD27	21	B-horizon soil	1.0	1.0	118.1	14.1	1.0	EA 378-1715628
10035	576548	5652892	NAD27	21	B-horizon soil	1.0	18.0	68.8	17.5	1.0	EA 378-1715628
10036	576517	5652898	NAD27	21	B-horizon soil	1.0	16.9	112.1	12.2	1.0	EA 378-1715628
10037	576500	5652894	NAD27	21	B-horizon soil	35.1	14.6	78.7	23.0	1.0	EA 378-1715628
10038	576472	5652907	NAD27	21	B-horizon soil	98.9	30.6	95.7	17.7	1.0	EA 378-1715628
10039	576447	5652910	NAD27	21	B-horizon soil	1.0	18.6	107.9	1.0	1.0	EA 378-1715628
10040	576425	5652900	NAD27	21	B-horizon soil	1.0	12.6	66.4	13.1	1.0	EA 378-1715628
10041	576391	5652891	NAD27	21	B-horizon soil	1.0	15.0	89.2	1.0	1.0	EA 378-1715628
10042	576370	5652883	NAD27	21	B-horizon soil	45.9	19.4	78.5	9.5	1.0	EA 378-1715628
10043	576348	5652885	NAD27	21	B-horizon soil	4.6	14.2	52.5	9.5	1.0	
10044	576170	5653334	NAD27	21	B-horizon soil	4.3	12.7	60.7	26.7	1.0	
10045	576144	5653348	NAD27	21	B-horizon soil	1.0	26.4	93.7	7.7	1.0	
10046	576117	5653309	NAD27	21	B-horizon soil	7.7	31.7	97.5	11.5	1.0	
10047	576095	5653298	NAD27	21	B-horizon soil	5.5	28.5	79.2	24.2	1.0	
10048	576074	5653293	NAD27	21	B-horizon soil	1.0	8.2	35.7	7.1	37.2	
10049	576048	5653308	NAD27	21	B-horizon soil	1.0	11.2	22.8	6.7	18.8	
10050	576017	5653309	NAD27	21	B-horizon soil	1.0	15.5	62.0	13.0	18.7	
10051	575990	5653300	NAD27	21	B-horizon soil	1.0	11.5	64.3	30.0	6.5	
10052	576170	5652906	NAD27	21	B-horizon soil	1.0	28.2	65.7	7.8	44.2	
10053	576148	5652915	NAD27	21	B-horizon soil	1.0	26.4	75.2	14.9	1.0	EA 378-1715628
10054	576122	5652907	NAD27	21	B-horizon soil	1.0	21.3	51.0	11.4	1.0	EA 378-1715628
10055	576096	5652892	NAD27	21	B-horizon soil	1.0	22.1	43.4	8.8	1.0	EA 378-1715628
10056	576075	5652898	NAD27	21	B-horizon soil	1.0	26.3	82.8	9.9	1.0	EA 378-1715628
10057	576043	5652905	NAD27	21	B-horizon soil	1.0	24.3	71.9	45.7	1.0	EA 378-1715628
10058	576025	5652898	NAD27	21	B-horizon soil	1.0	29.0	155.6	1.0	1.0	EA 378-1715628

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Sample Number	UTM Easting	UTM Northing	Datum	Zone	Sample Medium	pXRF Cu(ppm)	pXRF Pb(ppm)	pXRF Zn(ppm)	pXRF As(ppm)	pXRF Sb(ppm)	Check Analysis - Certificate Reference
10059	576004	5652905	NAD27	21	B-horizon soil	1.0	23.3	71.5	20.2	1.0	EA 378-1715628
10060	575966	5652908	NAD27	21	B-horizon soil	1.0	23.0	60.3	15.0	1.0	EA 378-1715628
10061	575943	5652906	NAD27	21	B-horizon soil	1.0	36.4	94.4	21.2	1.0	EA 378-1715628
10062	575921	5652898	NAD27	21	B-horizon soil	1.0	25.8	75.8	21.4	1.0	EA 378-1715628
10063	575893	5652895	NAD27	21	B-horizon soil	1.0	19.6	78.3	15.1	1.0	EA 378-1715628
10064	575872	5652904	NAD27	21	B-horizon soil	1.0	27.6	58.7	12.4	1.0	EA 378-1715628
10065	575850	5652902	NAD27	21	B-horizon soil	1.0	38.9	83.4	10.3	1.0	EA 378-1715628
10066	575767	5652897	NAD27	21	B-horizon soil	1.0	29.7	86.1	14.7	1.0	EA 378-1715628
10067	575743	5652906	NAD27	21	B-horizon soil	1.0	21.6	28.4	17.2	1.0	EA 378-1715628
10068	575720	5652910	NAD27	21	B-horizon soil	1.0	14.4	91.3	17.2	1.0	EA 378-1715628
10069	575694	5652914	NAD27	21	B-horizon soil	1.0	23.5	93.4	12.4	1.0	EA 378-1715628
10070	575745	5653103	NAD27	21	B-horizon soil	1.0	30.3	57.6	18.1	1.0	
10071	575774	5653104	NAD27	21	B-horizon soil	1.0	29.5	81.4	32.6	1.0	
10072	575797	5653102	NAD27	21	B-horizon soil	1.0	38.8	88.7	13.4	1.0	
10073	575823	5653098	NAD27	21	B-horizon soil	1.0	18.1	52.4	12.6	1.0	
10074	575894	5653097	NAD27	21	B-horizon soil	1.0	21.6	50.3	1.0	1.0	
10075	575925	5653109	NAD27	21	B-horizon soil	1.0	25.5	78.0	15.7	14.0	
10076	575973	5653090	NAD27	21	B-horizon soil	1.0	15.8	85.8	15.8	1.0	
10077	576005	5653102	NAD27	21	B-horizon soil	1.0	37.7	65.8	22.3	1.0	
10078	576082	5653098	NAD27	21	B-horizon soil	1.0	25.2	72.4	8.9	1.0	
10079	576132	5653094	NAD27	21	B-horizon soil	1.0	16.2	50.9	12.0	1.0	
10080	576163	5653096	NAD27	21	B-horizon soil	1.0	19.9	57.4	15.6	1.0	
10081	576207	5653096	NAD27	21	B-horizon soil	1.0	25.0	110.3	24.9	1.0	
10082	575126	5651300	NAD27	21	B-horizon soil	1.0	20.7	62.8	19.0	1.0	
10083	575093	5651303	NAD27	21	B-horizon soil	1.0	20.7	44.7	29.5	1.0	
10084	575033	5651306	NAD27	21	B-horizon soil	1.0	15.9	101.0	8.2	1.0	
10085	575006	5651304	NAD27	21	B-horizon soil	1.0	26.3	78.0	1.0	1.0	
10086	574979	5651315	NAD27	21	B-horizon soil	1.0	28.6	116.6	27.6	1.0	
10087	574955	5651306	NAD27	21	B-horizon soil	1.0	25.3	98.8	20.2	1.0	
10088	574935	5651293	NAD27	21	B-horizon soil	1.0	31.9	84.6	15.3	1.0	
10089	574909	5651312	NAD27	21	B-horizon soil	1.0	23.1	69.8	1.0	1.0	
10090	574876	5651295	NAD27	21	B-horizon soil	1.0	17.6	56.6	24.7	1.0	
10091	574849	5651294	NAD27	21	B-horizon soil	29.8	20.1	92.9	21.4	1.0	
10092	574823	5651295	NAD27	21	B-horizon soil	1.0	22.3	111.2	1.0	1.0	
10093	574748	5651312	NAD27	21	B-horizon soil	1.0	41.0	128.8	1.0	1.0	
10094	574763	5651304	NAD27	21	B-horizon soil	1.0	8.6	25.9	8.6	1.0	
10095	574723	5651304	NAD27	21	B-horizon soil	1.0	24.4	104.2	14.1	1.0	
10096	574690	5651300	NAD27	21	B-horizon soil	1.0	30.3	91.3	1.0	1.0	
10097	574628	5651295	NAD27	21	B-horizon soil	35.7	29.7	95.2	10.6	1.0	
10098	574596	5651309	NAD27	21	B-horizon soil	1.0	24.8	71.4	13.0	1.0	
10099	574537	5651300	NAD27	21	B-horizon soil	1.0	15.1	93.4	13.3	1.0	
10100	574512	5651311	NAD27	21	B-horizon soil	1.0	30.5	130.8	14.1	1.0	
10101	574486	5651304	NAD27	21	B-horizon soil	1.0	28.6	117.8	1.0	1.0	
10102	574460	5651312	NAD27	21	B-horizon soil	1.0	19.7	135.4	14.0	1.0	
10103	574427	5651296	NAD27	21	B-horizon soil	1.0	35.5	114.5	1.0	1.0	
10104	574376	5651304	NAD27	21	B-horizon soil	1.0	20.5	122.7	10.5	1.0	
10105	574311	5651311	NAD27	21	B-horizon soil	1.0	1.0	72.5	12.3	1.0	
10106	574338	5651505	NAD27	21	B-horizon soil	1.0	15.3	145.6	11.1	1.0	
10107	574376	5651505	NAD27	21	B-horizon soil	1.0	17.7	104.2	10.9	1.0	
10108	574425	5651504	NAD27	21	B-horizon soil	1.0	22.0	107.0	9.3	1.0	
10109	574460	5651506	NAD27	21	B-horizon soil	1.0	21.9	57.5	8.3	1.0	
10110	574507	5651507	NAD27	21	B-horizon soil	31.8	29.1	107.0	9.9	1.0	
10111	574541	5651503	NAD27	21	B-horizon soil	1.0	20.3	70.5	1.0	1.0	
10112	574601	5651505	NAD27	21	B-horizon soil	1.0	20.4	90.7	16.0	1.0	
10113	574643	5651502	NAD27	21	B-horizon soil	1.0	24.5	81.0	8.5	1.0	
10114	574678	5651509	NAD27	21	B-horizon soil	1.0	18.8	57.1	9.1	1.0	
10115	574703	5651500	NAD27	21	B-horizon soil	1.0	17.0	49.2	1.0	1.0	
10116	574738	5651498	NAD27	21	B-horizon soil	1.0	33.2	95.9	1.0	1.0	
10117	574765	5651513	NAD27	21	B-horizon soil	1.0	26.2	53.3	9.5	1.0	
10118	574801	5651503	NAD27	21	B-horizon soil	1.0	15.1	63.9	8.9	1.0	

## Appendix 2: Sail Pond Soil Sample List

Sample Number	UTM Easting	UTM Northing	Datum	Zone	Sample Medium	pXRF Cu(ppm)	pXRF Pb(ppm)	pXRF Zn(ppm)	pXRF As(ppm)	pXRF Sb(ppm)	Check Analysis - Certificate Reference
10119	574828	5651510	NAD27	21	B-horizon soil	1.0	21.6	87.3	12.9	1.0	
10120	574864	5651502	NAD27	21	B-horizon soil	1.0	26.2	74.5	19.2	1.0	
10121	574883	5651514	NAD27	21	B-horizon soil	1.0	41.9	72.3	15.0	1.0	
10122	574896	5651497	NAD27	21	B-horizon soil	1.0	30.7	137.8	14.2	1.0	
10123	574924	5651488	NAD27	21	B-horizon soil	1.0	14.3	63.5	19.0	1.0	
10124	574947	5651496	NAD27	21	B-horizon soil	1.0	23.2	88.0	44.6	1.0	
10125	575003	5651503	NAD27	21	B-horizon soil	1.0	16.8	55.8	9.8	1.0	
10126	575031	5651496	NAD27	21	B-horizon soil	1.0	26.2	56.5	17.3	1.0	
10127	575054	5651495	NAD27	21	B-horizon soil	1.0	28.6	103.5	28.4	1.0	
10128	575082	5651500	NAD27	21	B-horizon soil	1.0	19.5	77.2	13.8	1.0	
10129	575107	5651510	NAD27	21	B-horizon soil	1.0	26.3	75.4	15.7	1.0	
10130	575899	5653304	NAD27	21	B-horizon soil	11.4	39.8	74.0	20.5	1.0	
10131	575875	5653298	NAD27	21	B-horizon soil	1.0	21.8	63.1	8.7	1.0	
10132	576631	5653297	NAD27	21	B-horizon soil	1.0	15.7	65.0	19.6	4.7	
10133	575800	5653305	NAD27	21	B-horizon soil	22.0	39.8	90.2	67.6	1.0	
10134	575775	5653303	NAD27	21	B-horizon soil	25.9	30.2	80.5	31.9	7.8	
10135	575749	5653309	NAD27	21	B-horizon soil	4.3	22.3	79.2	16.8	1.0	
10136	575723	5653303	NAD27	21	B-horizon soil	1.0	43.0	86.9	31.7	1.0	
10137	575627	5653297	NAD27	21	B-horizon soil	11.0	20.4	53.2	5.2	1.0	
10138	575518	5653306	NAD27	21	B-horizon soil	1.0	15.2	72.0	19.2	1.0	
10139	575498	5653310	NAD27	21	B-horizon soil	1.0	14.6	91.4	14.1	11.0	
10140	575469	5653310	NAD27	21	B-horizon soil	9.3	27.4	118.9	16.0	9.4	
10141	575446	5653308	NAD27	21	B-horizon soil	8.7	25.5	56.7	8.1	6.3	
10142	575422	5653296	NAD27	21	B-horizon soil	4.0	23.2	76.7	6.2	3.1	
10143	575398	5653306	NAD27	21	B-horizon soil	4.5	21.5	62.4	9.7	1.0	
10144	575371	5653303	NAD27	21	B-horizon soil	19.6	23.2	98.1	11.7	1.0	
10145	575345	5653302	NAD27	21	B-horizon soil	28.0	18.5	69.6	17.2	1.7	
10146	575327	5653304	NAD27	21	B-horizon soil	8.9	22.8	62.5	11.5	5.3	
10147	575534	5653697	NAD27	21	B-horizon soil	1.0	19.5	54.7	11.9	1.0	
10148	575563	5653692	NAD27	21	B-horizon soil	1.0	26.6	92.0	17.1	1.0	
10149	575595	5653696	NAD27	21	B-horizon soil	1.0	32.2	76.1	19.1	1.0	
10150	575622	5653706	NAD27	21	B-horizon soil	48.3	28.1	71.1	13.6	1.0	
10151	575648	5653705	NAD27	21	B-horizon soil	49.0	26.1	62.6	16.3	1.0	
10152	575685	5653700	NAD27	21	B-horizon soil	1.0	32.1	78.3	1.0	1.0	
10153	575722	5653704	NAD27	21	B-horizon soil	1.0	18.1	89.0	9.5	1.0	
10154	575751	5653711	NAD27	21	B-horizon soil	1.0	30.2	49.4	1.0	1.0	
10155	575785	5653709	NAD27	21	B-horizon soil	1.0	22.5	50.5	9.5	1.0	
10156	575810	5653696	NAD27	21	B-horizon soil	1.0	24.8	98.4	45.6	1.0	
10157	575838	5653698	NAD27	21	B-horizon soil	1.0	22.0	57.1	14.2	1.0	
10158	575893	5653708	NAD27	21	B-horizon soil	1.0	33.5	48.7	1.0	1.0	
10159	576019	5653706	NAD27	21	B-horizon soil	1.0	30.8	64.2	1.0	1.0	
10160	576047	5653708	NAD27	21	B-horizon soil	1.0	17.3	62.2	16.6	1.0	
10161	576095	5653709	NAD27	21	B-horizon soil	1.0	23.7	47.7	1.0	1.0	
10162	576129	5653705	NAD27	21	B-horizon soil	1.0	16.1	35.1	11.0	1.0	
10163	576229	5653298	NAD27	21	B-horizon soil	27.5	32.8	64.9	33.2	1.0	
10164	576293	5653298	NAD27	21	B-horizon soil	11.2	24.7	62.2	19.8	1.0	
10165	576321	5653300	NAD27	21	B-horizon soil	7.6	17.5	53.9	14.5	1.0	
10166	576374	5653298	NAD27	21	B-horizon soil	0.5	16.2	43.6	12.5	1.0	
10167	576429	5653298	NAD27	21	B-horizon soil	1.0	19.9	58.5	9.1	1.0	
10168	576470	5653298	NAD27	21	B-horizon soil	3.9	18.5	47.8	10.6	1.0	
10169	576500	5653300	NAD27	21	B-horizon soil	1.0	32.8	71.5	7.3	1.0	
10170	576571	5653309	NAD27	21	B-horizon soil	26.5	24.5	59.5	3.8	1.0	
10171	576592	5653302	NAD27	21	B-horizon soil	1.0	19.9	70.8	8.8	8.8	
10172	576357	5653098	NAD27	21	B-horizon soil	1.0	26.1	111.5	14.6	1.0	
10173	576334	5653114	NAD27	21	B-horizon soil	1.0	30.8	72.8	12.1	1.0	
10174	576349	5653100	NAD27	21	B-horizon soil	1.0	32.9	86.7	12.2	1.0	
10175	576260	5653104	NAD27	21	B-horizon soil	1.0	23.7	76.9	10.9	1.0	
10176	576247	5653102	NAD27	21	B-horizon soil	1.0	24.1	63.5	18.2	1.0	
10177	576510	5654497	NAD27	21	B-horizon soil	1.0	9.3	27.5	1.0	1.0	
10178	576535	5654498	NAD27	21	B-horizon soil	1.0	13.9	48.4	8.4	1.0	

## Appendix 2: Sail Pond Soil Sample List

Sample Number	UTM Easting	UTM Northing	Datum	Zone	Sample Medium	pXRF Cu(ppm)	pXRF Pb(ppm)	pXRF Zn(ppm)	pXRF As(ppm)	pXRF Sb(ppm)	Check Analysis - Certificate Reference
10179	576653	5654495	NAD27	21	B-horizon soil	1.0	16.9	62.1	13.3	1.0	
10180	576696	5654498	NAD27	21	B-horizon soil	1.0	23.1	66.1	10.1	1.0	
10181	576719	5654505	NAD27	21	B-horizon soil	1.0	1.0	38.2	8.4	1.0	
10182	576740	5654499	NAD27	21	B-horizon soil	1.0	9.6	41.2	6.8	1.0	
10183	576770	5654502	NAD27	21	B-horizon soil	1.0	23.2	73.2	1.0	1.0	
10184	576825	5654505	NAD27	21	B-horizon soil	1.0	18.5	55.1	10.0	1.0	
10185	576860	5654501	NAD27	21	B-horizon soil	1.0	17.6	50.0	8.8	23.4	
10186	576891	5654502	NAD27	21	B-horizon soil	1.0	23.3	34.7	1.0	1.0	
10187	576925	5654510	NAD27	21	B-horizon soil	1.0	19.3	54.3	9.3	18.2	
10188	577007	5654102	NAD27	21	B-horizon soil	1.0	25.3	64.1	12.0	12.7	
10189	577031	5654502	NAD27	21	B-horizon soil	1.0	24.4	122.4	25.6	1.0	
10190	577063	5654499	NAD27	21	B-horizon soil	1.0	19.3	83.5	9.6	1.0	
10191	577095	5654500	NAD27	21	B-horizon soil	1.0	33.8	77.9	1.0	1.0	
10192	577132	5654503	NAD27	21	B-horizon soil	1.0	12.3	51.5	14.0	1.0	
10193	577154	5654492	NAD27	21	B-horizon soil	1.0	37.1	108.6	11.6	1.0	
10194	577179	5654502	NAD27	21	B-horizon soil	1.0	32.3	263.6	14.9	1.0	
10195	577205	5654495	NAD27	21	B-horizon soil	1.0	22.3	52.1	17.8	1.0	
10196	577232	5654499	NAD27	21	B-horizon soil	1.0	17.1	74.3	8.8	1.0	
10197	577259	5654503	NAD27	21	B-horizon soil	1.0	36.4	150.0	16.9	1.0	
10198	577327	5654498	NAD27	21	B-horizon soil	1.0	21.6	47.1	10.9	1.0	
10199	577392	5654498	NAD27	21	B-horizon soil	1.0	45.4	169.8	31.0	1.0	
10200	577411	5654501	NAD27	21	B-horizon soil	1.0	30.8	94.7	14.3	1.0	
10201	577441	5654505	NAD27	21	B-horizon soil	38.1	55.3	97.5	15.8	1.0	
10202	577465	5654497	NAD27	21	B-horizon soil	1.0	13.8	25.0	1.0	1.0	
10203	577489	5654512	NAD27	21	B-horizon soil	1.0	25.8	74.7	9.4	1.0	
10204	577508	5654495	NAD27	21	B-horizon soil	1.0	29.7	120.9	1.0	1.0	
10205	577533	5654498	NAD27	21	B-horizon soil	1.0	17.0	16.9	1.0	1.0	
10206	577565	5654502	NAD27	21	B-horizon soil	1.0	18.8	42.1	9.5	1.0	
10207	577408	5654099	NAD27	21	B-horizon soil	1.0	25.9	80.4	17.9	16.0	
10208	577379	5654098	NAD27	21	B-horizon soil	1.0	21.7	63.5	8.5	23.6	
10209	577352	5654103	NAD27	21	B-horizon soil	1.0	27.2	77.2	1.0	1.0	
10210	577328	5654102	NAD27	21	B-horizon soil	1.0	24.5	157.5	13.1	1.0	
10211	577300	5654106	NAD27	21	B-horizon soil	1.0	31.5	115.4	10.0	12.3	
10212	577257	5654099	NAD27	21	B-horizon soil	1.0	15.8	23.8	1.0	1.0	
10213	577228	5654098	NAD27	21	B-horizon soil	1.0	16.9	37.3	1.0	1.0	
10214	577194	5654104	NAD27	21	B-horizon soil	1.0	37.5	239.8	9.6	1.0	
10215	577154	5654099	NAD27	21	B-horizon soil	1.0	19.4	140.8	14.5	1.0	
10216	577125	5654102	NAD27	21	B-horizon soil	1.0	31.7	202.4	11.9	1.0	
10217	577095	5654100	NAD27	21	B-horizon soil	1.0	13.3	106.4	18.4	1.0	
10218	577067	5654099	NAD27	21	B-horizon soil	1.0	15.8	37.1	8.6	1.0	
10219	577040	5654102	NAD27	21	B-horizon soil	1.0	22.5	82.0	26.4	1.0	
10220	577003	5654097	NAD27	21	B-horizon soil	1.0	16.9	17.7	1.0	1.0	
10221	576868	5654103	NAD27	21	B-horizon soil	1.0	1.0	70.9	8.6	1.0	
10222	576839	5654094	NAD27	21	B-horizon soil	1.0	20.6	59.3	13.0	1.0	
10223	576787	5654102	NAD27	21	B-horizon soil	1.0	25.4	101.6	10.7	1.0	
10224	576766	5654102	NAD27	21	B-horizon soil	1.0	25.8	72.7	1.0	14.3	
10225	576732	5654097	NAD27	21	B-horizon soil	1.0	15.7	53.9	13.9	20.5	
10226	576704	5654100	NAD27	21	B-horizon soil	1.0	25.1	65.1	1.0	1.0	
10227	576643	5654100	NAD27	21	B-horizon soil	1.0	18.3	13.1	1.0	1.0	
10228	576620	5654098	NAD27	21	B-horizon soil	1.0	21.4	73.3	13.1	1.0	
10229	576568	5654098	NAD27	21	B-horizon soil	1.0	21.4	70.2	11.5	1.0	
10230	576574	5654108	NAD27	21	B-horizon soil	1.0	13.6	54.2	12.6	25.4	
10231	576390	5654104	NAD27	21	B-horizon soil	1.0	16.7	29.9	1.0	1.0	
10232	576374	5654102	NAD27	21	B-horizon soil	1.0	20.8	30.9	1.0	1.0	
10233	576348	5654109	NAD27	21	B-horizon soil	1.0	17.1	19.9	7.8	1.0	
10234	576215	5654103	NAD27	21	B-horizon soil	1.0	16.6	82.4	9.0	1.0	
10235	576192	5654106	NAD27	21	B-horizon soil	1.0	22.6	77.3	9.5	1.0	
10236	576167	5654103	NAD27	21	B-horizon soil	1.0	33.0	57.7	30.6	1.0	
10237	576119	5654105	NAD27	21	B-horizon soil	1.0	37.4	68.4	11.0	1.0	
10238	576103	5654101	NAD27	21	B-horizon soil	1.0	34.1	118.3	1.0	1.0	

Appendix 2: Sail Pond Soil Sample List

Sample Number	UTM Easting	UTM Northing	Datum	Zone	Sample Medium	pXRF Cu(ppm)	pXRF Pb(ppm)	pXRF Zn(ppm)	pXRF As(ppm)	pXRF Sb(ppm)	Check Analysis - Certificate Reference
10239	576076	5654107	NAD27	21	B-horizon soil	1.0	23.0	58.0	17.4	1.0	
10240	576030	5654099	NAD27	21	B-horizon soil	1.0	26.6	59.3	1.0	1.0	
10241	575992	5654106	NAD27	21	B-horizon soil	1.0	23.5	68.6	1.0	15.7	
10242	575959	5654101	NAD27	21	B-horizon soil	1.0	19.3	69.5	1.0	20.9	
10243	575926	5654105	NAD27	21	B-horizon soil	1.0	21.3	76.2	12.3	1.0	
10244	575901	5654101	NAD27	21	B-horizon soil	1.0	14.7	29.3	7.9	1.0	
10245	575868	5654095	NAD27	21	B-horizon soil	1.0	18.8	48.7	10.6	1.0	
10246	575847	5654103	NAD27	21	B-horizon soil	1.0	19.4	60.6	15.5	1.0	
10247	575828	5654101	NAD27	21	B-horizon soil	1.0	29.2	93.2	23.6	1.0	
10248	575750	5654103	NAD27	21	B-horizon soil	1.0	9.2	19.2	7.9	1.0	
10249	576776	5654101	NAD27	21	B-horizon soil	1.0	133.8	145.4	29.8	1.0	
10250	575742	5654107	NAD27	21	B-horizon soil	1.0	19.5	239.4	1.0	1.0	
10251	575700	5654102	NAD27	21	B-horizon soil	1.0	54.3	96.1	18.0	1.0	
10252	575665	5654099	NAD27	21	B-horizon soil	1.0	17.8	139.0	10.4	1.0	
10253	575653	5654093	NAD27	21	B-horizon soil	1.0	25.4	103.0	1.0	1.0	
10254	575626	5654112	NAD27	21	B-horizon soil	1.0	17.9	71.3	18.1	12.5	
10255	575609	5654098	NAD27	21	B-horizon soil	1.0	15.5	73.8	10.9	1.0	
10256	575591	5654106	NAD27	21	B-horizon soil	1.0	17.0	38.5	1.0	1.0	
10257	575530	5654104	NAD27	21	B-horizon soil	1.0	13.0	107.4	10.0	1.0	
10258	575492	5654108	NAD27	21	B-horizon soil	1.0	1.0	19.1	1.0	1.0	
10259	575466	5654098	NAD27	21	B-horizon soil	1.0	18.8	55.6	13.0	1.0	
10260	574537	5653998	NAD27	21	B-horizon soil	1.0	24.0	87.8	19.1	1.0	
10261	574472	5654003	NAD27	21	B-horizon soil	1.0	1.0	58.0	8.5	1.0	
10262	574498	5653998	NAD27	21	B-horizon soil	1.0	20.0	59.2	1.0	1.0	
10263	574422	5653997	NAD27	21	B-horizon soil	1.0	35.0	335.2	9.0	1.0	
10264	574398	5653999	NAD27	21	B-horizon soil	1.0	17.9	92.6	1.0	1.0	
10265	574371	5653991	NAD27	21	B-horizon soil	1.0	29.6	86.9	17.8	1.0	
10266	574336	5653997	NAD27	21	B-horizon soil	37.7	23.7	382.8	34.7	1.0	
10267	574307	5654001	NAD27	21	B-horizon soil	1.0	12.1	26.9	8.4	1.0	
10268	574283	5653998	NAD27	21	B-horizon soil	1.0	9.6	49.7	10.3	1.0	
10269	574275	5653989	NAD27	21	B-horizon soil	1.0	23.3	39.7	1.0	1.0	
10270	574212	5654003	NAD27	21	B-horizon soil	1.0	14.2	32.5	1.0	1.0	
10271	574160	5654003	NAD27	21	B-horizon soil	1.0	19.6	42.0	8.1	1.0	
10272	574126	5653995	NAD27	21	B-horizon soil	1.0	22.4	52.9	21.0	1.0	
10273	574000	5654001	NAD27	21	B-horizon soil	1.0	19.1	64.5	14.8	1.0	
10274	573982	5654002	NAD27	21	B-horizon soil	1.0	21.0	68.4	17.9	1.0	
10275	573948	5654001	NAD27	21	B-horizon soil	1.0	22.3	58.2	20.5	1.0	
10276	573908	5654007	NAD27	21	B-horizon soil	1.0	15.9	51.9	14.1	1.0	
10277	573893	5654003	NAD27	21	B-horizon soil	1.0	1.0	38.8	10.6	1.0	
10278	573865	5654003	NAD27	21	B-horizon soil	1.0	19.1	45.6	12.2	1.0	
10279	573840	5654004	NAD27	21	B-horizon soil	1.0	16.4	41.1	1.0	1.0	
10280	573817	5654008	NAD27	21	B-horizon soil	1.0	16.3	32.8	9.6	1.0	
10281	574051	5654500	NAD27	21	B-horizon soil	1.0	1.0	37.8	15.6	1.0	
10282	574070	5654502	NAD27	21	B-horizon soil	1.0	18.5	50.6	11.9	1.0	
10283	574090	5654503	NAD27	21	B-horizon soil	1.0	14.2	36.9	14.3	1.0	
10284	574117	5654496	NAD27	21	B-horizon soil	1.0	1.0	22.4	1.0	1.0	
10285	574145	5654502	NAD27	21	B-horizon soil	1.0	8.8	24.5	1.0	1.0	
10286	574174	5654496	NAD27	21	B-horizon soil	1.0	19.4	51.9	1.0	1.0	
10287	574212	5654497	NAD27	21	B-horizon soil	1.0	12.3	35.6	9.0	1.0	
10288	574260	5654499	NAD27	21	B-horizon soil	32.0	29.7	100.7	17.8	1.0	
10289	574298	5654503	NAD27	21	B-horizon soil	1.0	17.5	43.8	1.0	1.0	
10290	574377	5654493	NAD27	21	B-horizon soil	1.0	16.6	41.4	1.0	1.0	
10291	574395	5654502	NAD27	21	B-horizon soil	1.0	22.9	69.8	1.0	1.0	
10292	574469	5654496	NAD27	21	B-horizon soil	1.0	28.3	112.4	18.9	1.0	
10293	574501	5654502	NAD27	21	B-horizon soil	1.0	16.3	57.7	1.0	1.0	
10294	574700	5654501	NAD27	21	B-horizon soil	1.0	28.5	91.6	1.0	1.0	
10295	574730	5654500	NAD27	21	B-horizon soil	1.0	13.9	31.9	7.8	1.0	
10296	574754	5654497	NAD27	21	B-horizon soil	1.0	14.5	59.4	1.0	31.2	
10297	574782	5654497	NAD27	21	B-horizon soil	1.0	34.4	71.3	26.5	1.0	
10298	574820	5654497	NAD27	21	B-horizon soil	1.0	22.9	74.2	14.1	15.4	

## Appendix 2: Sail Pond Soil Sample List

Sample Number	UTM Easting	UTM Northing	Datum	Zone	Sample Medium	pXRF Cu(ppm)	pXRF Pb(ppm)	pXRF Zn(ppm)	pXRF As(ppm)	pXRF Sb(ppm)	Check Analysis - Certificate Reference
10299	574845	5654510	NAD27	21	B-horizon soil	1.0	31.6	76.1	21.4	1.0	
10300	574853	5654507	NAD27	21	B-horizon soil	1.0	12.3	35.2	11.6	1.0	
10301	574890	5654495	NAD27	21	B-horizon soil	1.0	38.6	134.6	14.6	1.0	
10302	574918	5654497	NAD27	21	B-horizon soil	1.0	1.0	18.7	7.6	22.6	
10303	574953	5654497	NAD27	21	B-horizon soil	1.0	36.2	60.9	17.9	1.0	
10304	574992	5654498	NAD27	21	B-horizon soil	1.0	15.7	27.4	11.1	1.0	
10305	575072	5654498	NAD27	21	B-horizon soil	1.0	34.8	134.1	1.0	1.0	
10306	575099	5654503	NAD27	21	B-horizon soil	1.0	29.0	131.3	13.2	1.0	
10307	575118	5654510	NAD27	21	B-horizon soil	1.0	25.2	91.3	55.7	1.0	
10308	575139	5654498	NAD27	21	B-horizon soil	1.0	56.7	84.6	26.9	1.0	
10309	575172	5654505	NAD27	21	B-horizon soil	1.0	53.0	99.7	15.6	1.0	
10310	575191	5654498	NAD27	21	B-horizon soil	1.0	31.2	62.7	11.0	1.0	
10311	575215	5654504	NAD27	21	B-horizon soil	1.0	28.1	63.0	17.1	1.0	
10312	575280	5654503	NAD27	21	B-horizon soil	1.0	12.9	42.1	12.0	1.0	
10313	575306	5654500	NAD27	21	B-horizon soil	1.0	31.2	133.2	15.9	1.0	
10314	575335	5654500	NAD27	21	B-horizon soil	1.0	26.4	58.8	9.4	1.0	
10315	575359	5654504	NAD27	21	B-horizon soil	1.0	27.7	54.1	13.7	1.0	
10316	575387	5654498	NAD27	21	B-horizon soil	1.0	13.3	21.2	10.2	1.0	
10317	575419	5654499	NAD27	21	B-horizon soil	1.0	12.0	31.6	10.6	1.0	
10318	575444	5654509	NAD27	21	B-horizon soil	1.0	19.0	66.9	1.0	14.1	
10319	575470	5654505	NAD27	21	B-horizon soil	1.0	18.7	56.6	1.0	1.0	
10320	575500	5654499	NAD27	21	B-horizon soil	1.0	28.2	90.4	10.7	1.0	
10321	575530	5654496	NAD27	21	B-horizon soil	1.0	38.1	118.4	1.0	1.0	
10322	575552	5654504	NAD27	21	B-horizon soil	39.9	22.0	83.9	17.0	1.0	
10323	575582	5654500	NAD27	21	B-horizon soil	1.0	1.0	26.9	1.0	1.0	
10324	575611	5654490	NAD27	21	B-horizon soil	1.0	17.3	90.9	1.0	1.0	
10325	575641	5654501	NAD27	21	B-horizon soil	104.6	45.8	176.6	10.3	1.0	
10326	575673	5654495	NAD27	21	B-horizon soil	1.0	24.5	82.7	1.0	1.0	
10327	575694	5654502	NAD27	21	B-horizon soil	1.0	12.9	37.9	1.0	1.0	
10328	575724	5654503	NAD27	21	B-horizon soil	1.0	1.0	63.5	7.5	1.0	
10329	575755	5654504	NAD27	21	B-horizon soil	1.0	1.0	55.4	1.0	1.0	
10330	575779	5654500	NAD27	21	B-horizon soil	1.0	23.4	105.1	16.4	1.0	
10331	575810	5654501	NAD27	21	B-horizon soil	1.0	31.0	70.5	1.0	1.0	
10332	575862	5654897	NAD27	21	B-horizon soil	1.0	22.5	51.1	10.0	1.0	
10333	575831	5654903	NAD27	21	B-horizon soil	1.0	29.4	310.4	14.6	1.0	
10334	575798	5654894	NAD27	21	B-horizon soil	1.0	26.9	94.2	1.0	1.0	
10335	575782	5654898	NAD27	21	B-horizon soil	1.0	26.0	298.3	1.0	1.0	
10336	575753	5654902	NAD27	21	B-horizon soil	1.0	30.2	194.7	16.9	1.0	
10337	575722	5654898	NAD27	21	B-horizon soil	1.0	21.0	62.0	1.0	1.0	
10338	575683	5654910	NAD27	21	B-horizon soil	74.9	27.4	90.1	10.4	15.3	
10339	575667	5654909	NAD27	21	B-horizon soil	1.0	25.1	52.8	8.9	1.0	
10340	575621	5654903	NAD27	21	B-horizon soil	1.0	47.2	36.0	13.6	17.4	
10341	575588	5654906	NAD27	21	B-horizon soil	1.0	24.6	80.1	11.7	14.5	
10342	575549	5654910	NAD27	21	B-horizon soil	1.0	25.3	131.7	15.1	1.0	
10343	576660	5654903	NAD27	21	B-horizon soil	1.0	28.9	171.1	16.8	1.0	
10344	576680	5654898	NAD27	21	B-horizon soil	1.0	23.9	161.9	1.0	1.0	
10345	576704	5654903	NAD27	21	B-horizon soil	1.0	34.1	96.7	1.0	1.0	
10346	576730	5654898	NAD27	21	B-horizon soil	1.0	22.8	82.2	9.3	1.0	
10347	576755	5654908	NAD27	21	B-horizon soil	1.0	9.1	20.7	1.0	1.0	
10348	576798	5654904	NAD27	21	B-horizon soil	1.0	27.0	63.1	1.0	1.0	
10349	576828	5654906	NAD27	21	B-horizon soil	1.0	17.4	26.0	10.2	1.0	
10350	576863	5654903	NAD27	21	B-horizon soil	1.0	17.8	22.1	1.0	1.0	
10351	576908	5654898	NAD27	21	B-horizon soil	1.0	18.0	69.8	1.0	17.1	
10352	576927	5654906	NAD27	21	B-horizon soil	1.0	18.9	45.8	9.0	1.0	
10353	577000	5654898	NAD27	21	B-horizon soil	1.0	12.8	21.1	1.0	1.0	
10354	577023	5654901	NAD27	21	B-horizon soil	1.0	33.9	171.2	15.0	1.0	
10355	577053	5654900	NAD27	21	B-horizon soil	1.0	13.1	80.9	9.4	1.0	
10356	577120	5654899	NAD27	21	B-horizon soil	1.0	19.1	75.2	9.2	1.0	
10357	577154	5654905	NAD27	21	B-horizon soil	1.0	19.8	48.6	9.0	1.0	
10358	577179	5654899	NAD27	21	B-horizon soil	1.0	18.8	54.7	34.6	20.8	



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Sample Number	UTM Easting	UTM Northing	Datum	Zone	Sample Medium	pXRF Cu(ppm)	pXRF Pb(ppm)	pXRF Zn(ppm)	pXRF As(ppm)	pXRF Sb(ppm)	Check Analysis - Certificate Reference
10359	577198	5654904	NAD27	21	B-horizon soil	1.0	10.4	114.0	1.0	23.4	
10360	577228	5654899	NAD27	21	B-horizon soil	1.0	32.8	88.0	1.0	1.0	
10361	577254	5654896	NAD27	21	B-horizon soil	1.0	13.2	29.8	9.5	1.0	
10362	577278	5654899	NAD27	21	B-horizon soil	1.0	16.4	103.3	17.7	1.0	
10363	577298	5654897	NAD27	21	B-horizon soil	1.0	20.0	49.1	16.0	1.0	
10364	577324	5654896	NAD27	21	B-horizon soil	1.0	29.9	140.3	1.0	1.0	
10365	577348	5654900	NAD27	21	B-horizon soil	1.0	26.4	108.1	31.0	1.0	
10366	577380	5654904	NAD27	21	B-horizon soil	1.0	11.7	30.2	7.3	1.0	
10367	577404	5654897	NAD27	21	B-horizon soil	1.0	22.7	52.4	1.0	1.0	
10368	577459	5654900	NAD27	21	B-horizon soil	1.0	25.7	179.3	17.0	1.0	
10369	577493	5654902	NAD27	21	B-horizon soil	1.0	17.1	75.3	9.1	16.2	
10370	577623	5654900	NAD27	21	B-horizon soil	1.0	19.7	54.9	1.0	15.1	
10371	577650	5654904	NAD27	21	B-horizon soil	1.0	31.9	63.4	1.0	1.0	
10372	577682	5654901	NAD27	21	B-horizon soil	1.0	13.7	81.6	9.3	1.0	
10373	577711	5654904	NAD27	21	B-horizon soil	42.7	23.8	106.9	14.1	1.0	
10374	577747	5654896	NAD27	21	B-horizon soil	1.0	19.3	80.0	1.0	1.0	
10375	577775	5654906	NAD27	21	B-horizon soil	1.0	19.9	85.7	9.5	1.0	
10376	577809	5654900	NAD27	21	B-horizon soil	1.0	15.7	72.2	14.2	1.0	
10377	577869	5654898	NAD27	21	B-horizon soil	1.0	35.7	259.1	14.3	1.0	
10378	577905	5654904	NAD27	21	B-horizon soil	1.0	30.2	70.8	1.0	16.3	
10379	577936	5654905	NAD27	21	B-horizon soil	1.0	18.2	57.7	8.2	1.0	
10380	577971	5654903	NAD27	21	B-horizon soil	1.0	17.9	68.5	11.9	28.4	
10381	578004	5654902	NAD27	21	B-horizon soil	1.0	13.8	35.4	1.0	1.0	
10382	578034	5654903	NAD27	21	B-horizon soil	1.0	8.5	15.2	1.0	1.0	
10383	578205	5655304	NAD27	21	B-horizon soil	1.0	23.0	106.2	15.8	1.0	
10384	577892	5655304	NAD27	21	B-horizon soil	1.0	20.3	47.2	11.5	1.0	
10385	577859	5655303	NAD27	21	B-horizon soil	1.0	1.0	37.0	14.1	1.0	
10386	577834	5655299	NAD27	21	B-horizon soil	1.0	28.8	44.2	16.0	1.0	
10387	577801	5655304	NAD27	21	B-horizon soil	1.0	34.8	77.5	12.6	22.8	
10388	577653	5655080	NAD27	21	B-horizon soil	1.0	11.4	21.4	1.0	1.0	
10389	577576	5655083	NAD27	21	B-horizon soil	1.0	26.0	47.3	1.0	1.0	
10390	577500	5655132	NAD27	21	B-horizon soil	1.0	32.8	77.9	11.5	1.0	
10391	577505	5655195	NAD27	21	B-horizon soil	1.0	18.9	78.4	10.4	15.2	
10392	577497	5655236	NAD27	21	B-horizon soil	1.0	21.6	100.7	22.0	1.0	
10393	577519	5655252	NAD27	21	B-horizon soil	1.0	27.6	65.2	1.0	18.5	
10394	577547	5655296	NAD27	21	B-horizon soil	1.0	19.4	83.2	1.0	22.5	
10395	577528	5655304	NAD27	21	B-horizon soil	1.0	28.4	96.4	1.0	1.0	
10396	577504	5655302	NAD27	21	B-horizon soil	1.0	9.4	26.2	8.5	1.0	
10397	577409	5655307	NAD27	21	B-horizon soil	1.0	18.8	78.7	1.0	25.6	
10398	577386	5655300	NAD27	21	B-horizon soil	1.0	24.3	105.5	18.7	1.0	
10399	577365	5655296	NAD27	21	B-horizon soil	1.0	13.5	27.4	1.0	1.0	
11129	578500	5660502	NAD27	21	B-horizon soil	1.0	34.0	86.1	19.3	1.0	
11130	578470	5660496	NAD27	21	B-horizon soil	1.0	32.9	92.2	25.7	1.0	
11131	578434	5660500	NAD27	21	B-horizon soil	1.0	19.8	51.3	11.8	1.0	
11132	578404	5660502	NAD27	21	B-horizon soil	1.0	49.2	88.5	1.0	1.0	
11133	578373	5660502	NAD27	21	B-horizon soil	1.0	30.2	54.9	9.9	1.0	
11134	578344	5660498	NAD27	21	B-horizon soil	1.0	23.7	59.2	9.5	1.0	
11135	578316	5660500	NAD27	21	B-horizon soil	1.0	27.9	73.0	25.9	1.0	
11136	578285	5660497	NAD27	21	B-horizon soil	36.2	28.9	73.8	20.7	1.0	
11137	578260	5660500	NAD27	21	B-horizon soil	38.5	46.3	165.8	25.7	1.0	
11138	578234	5660502	NAD27	21	B-horizon soil	44.3	62.6	187.1	51.7	1.0	
11139	578212	5660503	NAD27	21	B-horizon soil	34.9	103.4	221.1	45.4	1.0	
11140	578172	5660497	NAD27	21	B-horizon soil	1.0	21.1	75.9	8.6	20.1	
11141	578309	5660698	NAD27	21	B-horizon soil	47.8	32.1	172.5	81.3	15.0	
11142	578337	5660700	NAD27	21	B-horizon soil	43.8	568.7	503.9	84.5	1.0	
11143	578364	5660700	NAD27	21	B-horizon soil	1.0	105.0	264.8	39.7	1.0	
11144	578393	5660698	NAD27	21	B-horizon soil	1.0	63.4	228.3	37.2	1.0	
11145	578416	5660702	NAD27	21	B-horizon soil	1.0	49.0	105.5	23.1	1.0	
11146	578441	5660700	NAD27	21	B-horizon soil	1.0	21.3	64.3	1.0	13.8	
11147	578466	5660700	NAD27	21	B-horizon soil	1.0	17.1	54.8	12.7	21.8	

Appendix 2: Sail Pond Soil Sample List

Sample Number	UTM Easting	UTM Northing	Datum	Zone	Sample Medium	pXRF Cu(ppm)	pXRF Pb(ppm)	pXRF Zn(ppm)	pXRF As(ppm)	pXRF Sb(ppm)	Check Analysis - Certificate Reference
11148	578496	5660700	NAD27	21	B-horizon soil	1.0	43.9	228.4	19.6	1.0	
11149	578521	5660698	NAD27	21	B-horizon soil	1.0	49.5	94.9	31.7	1.0	
11150	578546	5660695	NAD27	21	B-horizon soil	1.0	30.1	80.1	29.9	1.0	
11151	578597	5660700	NAD27	21	B-horizon soil	1.0	18.9	109.5	10.9	1.0	
11152	578622	5660702	NAD27	21	B-horizon soil	1.0	22.6	51.8	1.0	1.0	
11153	578652	5660705	NAD27	21	B-horizon soil	1.0	22.8	80.4	1.0	1.0	
11154	578682	5660700	NAD27	21	B-horizon soil	1.0	16.4	57.7	8.0	1.0	
11155	578816	5660902	NAD27	21	B-horizon soil	1.0	46.3	52.5	24.6	1.0	
11156	578788	5660896	NAD27	21	B-horizon soil	1.0	32.7	171.0	16.9	1.0	
11157	578761	5660895	NAD27	21	B-horizon soil	1.0	22.6	157.2	19.9	1.0	
11158	578736	5660900	NAD27	21	B-horizon soil	1.0	19.0	38.2	1.0	1.0	
11159	578718	5660896	NAD27	21	B-horizon soil	1.0	16.7	60.6	11.1	1.0	
11160	578688	5660897	NAD27	21	B-horizon soil	1.0	22.6	59.0	1.0	1.0	
11161	578657	5660896	NAD27	21	B-horizon soil	1.0	31.9	105.9	16.5	1.0	
11162	578629	5660895	NAD27	21	B-horizon soil	1.0	19.7	50.3	10.3	1.0	
11163	578608	5660900	NAD27	21	B-horizon soil	1.0	29.5	102.8	11.0	1.0	
11164	578586	5660897	NAD27	21	B-horizon soil	1.0	22.4	61.0	13.3	1.0	
11165	578557	5660895	NAD27	21	B-horizon soil	1.0	26.2	77.3	10.2	12.9	
11166	578529	5660896	NAD27	21	B-horizon soil	1.0	32.7	85.9	11.5	1.0	
11167	578501	5660898	NAD27	21	B-horizon soil	65.2	329.8	245.9	72.0	1.0	
11168	578470	5660905	NAD27	21	B-horizon soil	1.0	18.9	38.9	9.2	1.0	
11169	578434	5660898	NAD27	21	B-horizon soil	1.0	32.5	118.0	1.0	1.0	
11170	578413	5660895	NAD27	21	B-horizon soil	1.0	32.2	104.8	14.0	1.0	
11171	578386	5660894	NAD27	21	B-horizon soil	1.0	23.6	51.1	8.4	11.5	
11172	578357	5660898	NAD27	21	B-horizon soil	1.0	29.1	67.4	9.7	1.0	
11173	578330	5660898	NAD27	21	B-horizon soil	1.0	33.9	81.6	12.7	1.0	
11174	578306	5660902	NAD27	21	B-horizon soil	1.0	42.4	137.8	1.0	1.0	
11175	578157	5660695	NAD27	21	B-horizon soil	28.8	67.9	99.8	19.9	1.0	
11176	578193	5660699	NAD27	21	B-horizon soil	27.4	33.4	165.3	24.8	1.0	
11177	578211	5660702	NAD27	21	B-horizon soil	1.0	27.9	108.0	30.6	1.0	
11178	578239	5660698	NAD27	21	B-horizon soil	1.0	28.8	118.9	21.6	1.0	
11179	578267	5660698	NAD27	21	B-horizon soil	1.0	20.1	57.4	8.6	12.9	
11180	578135	5660502	NAD27	21	B-horizon soil	1.0	13.7	44.1	9.0	14.5	
11181	578106	5660498	NAD27	21	B-horizon soil	1.0	24.5	77.9	1.0	1.0	
11182	578084	5660501	NAD27	21	B-horizon soil	167.6	635.6	634.8	53.3	1.0	
11183	578059	5660496	NAD27	21	B-horizon soil	1.0	59.3	103.0	15.6	1.0	
11184	578032	5660503	NAD27	21	B-horizon soil	28.9	93.2	274.2	1.0	1.0	
11185	578002	5660496	NAD27	21	B-horizon soil	1.0	27.8	59.5	11.9	23.0	
11186	577883	5660302	NAD27	21	B-horizon soil	1.0	25.4	77.5	9.4	1.0	
11187	577910	5660298	NAD27	21	B-horizon soil	1.0	19.6	287.0	13.4	1.0	
11188	577933	5660300	NAD27	21	B-horizon soil	154.8	427.9	1199.4	57.9	1.0	
11189	577962	5660295	NAD27	21	B-horizon soil	48.2	243.8	1637.8	84.1	1.0	
11190	578678	5660300	NAD27	21	B-horizon soil	1.0	24.4	103.0	1.0	1.0	
11191	578709	5660297	NAD27	21	B-horizon soil	1.0	20.9	67.0	1.0	1.0	
11192	578737	5660300	NAD27	21	B-horizon soil	1.0	25.7	67.3	19.5	1.0	
11193	578837	5660305	NAD27	21	B-horizon soil	32.8	30.1	60.3	38.6	1.0	
11194	579154	5660302	NAD27	21	B-horizon soil	1.0	25.7	45.8	18.1	1.0	
11195	579182	5660303	NAD27	21	B-horizon soil	1.0	18.1	109.5	39.8	1.0	
11196	579240	5660298	NAD27	21	B-horizon soil	1.0	27.4	45.1	21.4	1.0	
11197	579266	5660307	NAD27	21	B-horizon soil	1.0	85.7	182.5	19.1	1.0	
11198	579293	5660298	NAD27	21	B-horizon soil	30.6	36.2	85.3	12.0	1.0	
11199	579354	5660502	NAD27	21	B-horizon soil	1.0	21.5	33.5	1.0	1.0	
11200	579278	5660496	NAD27	21	B-horizon soil	1.0	32.8	69.9	18.0	1.0	
11201	578545	5658100	NAD27	21	B-horizon soil	1.0	16.6	79.7	9.1	12.5	
11202	578569	5658102	NAD27	21	B-horizon soil	1.0	15.2	77.2	8.7	12.3	
11203	578598	5658090	NAD27	21	B-horizon soil	1.0	19.3	53.1	11.4	1.0	
11204	578626	5658103	NAD27	21	B-horizon soil	1.0	14.4	66.5	1.0	1.0	
11205	578646	5658095	NAD27	21	B-horizon soil	1.0	27.9	82.4	1.0	20.3	
11206	578682	5658103	NAD27	21	B-horizon soil	1.0	23.2	68.4	10.7	1.0	
11207	578705	5658099	NAD27	21	B-horizon soil	1.0	38.8	108.9	17.6	1.0	

## Appendix 2: Sail Pond Soil Sample List

Sample Number	UTM Easting	UTM Northing	Datum	Zone	Sample Medium	pXRF Cu(ppm)	pXRF Pb(ppm)	pXRF Zn(ppm)	pXRF As(ppm)	pXRF Sb(ppm)	Check Analysis - Certificate Reference
11208	578749	5658099	NAD27	21	B-horizon soil	1.0	26.1	158.4	1.0	1.0	
11209	578774	5658101	NAD27	21	B-horizon soil	1.0	35.6	133.3	12.7	1.0	
11210	578816	5658096	NAD27	21	B-horizon soil	1.0	21.7	114.4	20.5	1.0	
11211	578836	5658100	NAD27	21	B-horizon soil	1.0	43.8	164.6	34.2	1.0	
11212	578875	5658097	NAD27	21	B-horizon soil	1.0	34.5	131.7	28.2	1.0	
11213	578899	5658099	NAD27	21	B-horizon soil	1.0	20.0	48.7	15.2	1.0	
11214	578926	5658098	NAD27	21	B-horizon soil	40.2	44.0	108.0	25.0	1.0	
11215	578953	5658099	NAD27	21	B-horizon soil	1.0	15.7	50.6	24.1	16.0	
11216	578978	5658100	NAD27	21	B-horizon soil	1.0	31.1	58.5	22.7	14.0	
11217	579006	5658103	NAD27	21	B-horizon soil	1.0	30.1	64.5	29.5	12.8	
11218	579043	5658098	NAD27	21	B-horizon soil	1.0	26.7	69.5	35.7	1.0	
11219	579056	5658095	NAD27	21	B-horizon soil	1.0	28.2	85.8	8.8	1.0	
11220	579081	5658102	NAD27	21	B-horizon soil	1.0	19.9	29.0	1.0	11.2	
11221	579111	5658094	NAD27	21	B-horizon soil	1.0	24.6	66.2	1.0	24.0	
11222	579136	5658100	NAD27	21	B-horizon soil	1.0	28.0	122.4	1.0	1.0	
11223	579170	5658098	NAD27	21	B-horizon soil	1.0	23.2	66.5	10.5	17.9	
11224	579215	5658103	NAD27	21	B-horizon soil	1.0	26.8	53.0	1.0	1.0	
11225	579243	5658103	NAD27	21	B-horizon soil	1.0	25.0	73.9	10.5	1.0	
11226	579268	5658103	NAD27	21	B-horizon soil	1.0	23.6	82.2	11.3	1.0	
11227	579301	5658101	NAD27	21	B-horizon soil	1.0	19.2	66.1	11.8	1.0	
11228	579339	5658101	NAD27	21	B-horizon soil	1.0	25.7	64.4	1.0	1.0	
11229	579375	5658104	NAD27	21	B-horizon soil	1.0	30.0	109.2	11.6	14.7	
11230	579401	5658103	NAD27	21	B-horizon soil	1.0	20.9	158.7	10.3	1.0	
11231	579440	5658100	NAD27	21	B-horizon soil	1.0	43.3	103.2	15.5	1.0	
11232	579460	5658104	NAD27	21	B-horizon soil	1.0	19.8	31.4	1.0	1.0	
11233	579565	5658103	NAD27	21	B-horizon soil	1.0	34.9	92.3	15.9	1.0	
11234	579600	5658100	NAD27	21	B-horizon soil	1.0	18.4	38.9	1.0	1.0	
11235	579625	5658102	NAD27	21	B-horizon soil	1.0	28.9	98.6	18.7	1.0	
11236	579652	5658099	NAD27	21	B-horizon soil	1.0	16.9	72.8	12.2	14.9	
11237	579682	5658099	NAD27	21	B-horizon soil	1.0	19.5	39.9	11.7	1.0	
11238	579710	5658100	NAD27	21	B-horizon soil	1.0	27.0	85.0	17.0	1.0	
11239	579737	5658099	NAD27	21	B-horizon soil	1.0	35.6	75.4	20.4	1.0	
11240	579789	5658100	NAD27	21	B-horizon soil	1.0	26.7	96.3	10.5	1.0	
11241	579820	5658102	NAD27	21	B-horizon soil	1.0	18.5	92.3	14.8	1.0	
11242	579843	5658104	NAD27	21	B-horizon soil	1.0	25.7	76.3	1.0	1.0	
11243	579874	5658101	NAD27	21	B-horizon soil	1.0	28.2	141.5	42.2	1.0	
11244	579903	5658100	NAD27	21	B-horizon soil	1.0	30.6	82.8	20.3	1.0	
11245	579929	5658102	NAD27	21	B-horizon soil	1.0	17.4	42.5	9.8	1.0	
11246	579957	5658102	NAD27	21	B-horizon soil	1.0	18.5	97.2	1.0	1.0	
11247	579974	5658098	NAD27	21	B-horizon soil	1.0	14.0	28.3	1.0	1.0	
11249	580610	5661108	NAD27	21	B-horizon soil	1.0	27.6	110.1	1.0	1.0	
11250	580637	5661098	NAD27	21	B-horizon soil	1.0	56.5	70.8	1.0	1.0	
11251	580662	5661102	NAD27	21	B-horizon soil	1.0	18.3	72.6	60.9	1.0	
11252	580689	5661107	NAD27	21	B-horizon soil	1.0	1.0	21.1	1.0	44.1	
11253	580714	5661099	NAD27	21	B-horizon soil	1.0	34.9	82.1	26.4	1.0	
11254	580739	5661097	NAD27	21	B-horizon soil	1.0	25.3	143.8	1.0	1.0	
11255	580762	5661103	NAD27	21	B-horizon soil	1.0	19.4	63.5	26.1	1.0	
11256	580787	5661109	NAD27	21	B-horizon soil	1.0	23.5	51.0	19.2	1.0	
11257	580814	5661099	NAD27	21	B-horizon soil	1.0	27.8	78.2	25.8	1.0	
11258	580843	5661100	NAD27	21	B-horizon soil	1.0	1.0	15.7	1.0	42.6	
11259	580861	5661099	NAD27	21	B-horizon soil	1.0	8.8	50.5	7.8	1.0	
11260	580885	5661104	NAD27	21	B-horizon soil	1.0	1.0	18.1	1.0	47.4	
11261	580935	5661103	NAD27	21	B-horizon soil	1.0	57.5	74.4	1.0	1.0	
11262	580951	5661300	NAD27	21	B-horizon soil	1.0	12.0	36.4	18.8	1.0	
11263	580933	5661297	NAD27	21	B-horizon soil	36.5	16.8	51.5	14.4	1.0	
11264	580905	5661702	NAD27	21	B-horizon soil	1.0	20.8	48.3	25.2	1.0	
11265	580880	5661297	NAD27	21	B-horizon soil	1.0	15.8	47.4	22.9	1.0	
11266	580855	5661297	NAD27	21	B-horizon soil	1.0	22.5	88.7	27.2	1.0	
11267	580826	5661303	NAD27	21	B-horizon soil	1.0	12.7	46.8	7.0	1.0	
11268	580810	5661301	NAD27	21	B-horizon soil	1.0	27.8	39.7	17.2	1.0	

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Sample Number	UTM Easting	UTM Northing	Datum	Zone	Sample Medium	pXRF Cu(ppm)	pXRF Pb(ppm)	pXRF Zn(ppm)	pXRF As(ppm)	pXRF Sb(ppm)	Check Analysis - Certificate Reference
11269	580778	5661301	NAD27	21	B-horizon soil	1.0	16.2	61.1	10.3	1.0	
11270	580753	5661297	NAD27	21	B-horizon soil	1.0	15.3	35.4	9.3	1.0	
11271	580733	5661300	NAD27	21	B-horizon soil	1.0	31.7	97.4	1.0	1.0	
11272	580701	5661305	NAD27	21	B-horizon soil	1.0	21.4	46.3	1.0	1.0	
11273	580557	5660910	NAD27	21	B-horizon soil	1.0	15.3	42.5	13.5	1.0	
11274	580592	5660913	NAD27	21	B-horizon soil	1.0	33.6	71.8	13.6	1.0	
11275	580617	5660913	NAD27	21	B-horizon soil	1.0	27.3	122.6	16.2	1.0	
11276	580644	5660901	NAD27	21	B-horizon soil	1.0	18.3	55.8	13.7	13.9	
11277	580668	5660897	NAD27	21	B-horizon soil	1.0	18.6	99.1	23.5	1.0	
11278	580718	5660895	NAD27	21	B-horizon soil	1.0	19.8	81.1	63.0	1.0	
11279	580780	5660901	NAD27	21	B-horizon soil	1.0	1.0	15.2	1.0	1.0	
11280	580816	5660902	NAD27	21	B-horizon soil	1.0	16.6	23.4	1.0	19.4	
11281	580842	5660905	NAD27	21	B-horizon soil	1.0	34.8	70.6	18.6	1.0	
11282	580868	5660904	NAD27	21	B-horizon soil	1.0	26.5	52.6	11.0	1.0	
11283	580894	5660901	NAD27	21	B-horizon soil	1.0	45.3	37.1	30.8	1.0	
11284	580940	5660901	NAD27	21	B-horizon soil	1.0	14.7	27.7	13.4	1.0	
11285	580969	5660900	NAD27	21	B-horizon soil	1.0	35.0	101.0	24.5	1.0	
11286	580990	5660900	NAD27	21	B-horizon soil	1.0	87.0	221.8	100.5	1.0	
11287	581017	5660909	NAD27	21	B-horizon soil	1.0	35.3	127.4	37.8	1.0	
11288	581043	5660906	NAD27	21	B-horizon soil	1.0	23.4	64.1	1.0	1.0	
11289	580935	5660696	NAD27	21	B-horizon soil	39.8	24.9	139.8	14.4	1.0	
11290	580908	5660703	NAD27	21	B-horizon soil	1.0	14.5	63.4	15.8	21.8	
11291	580880	5660708	NAD27	21	B-horizon soil	1.0	27.5	77.1	1.0	1.0	
11292	580858	5660699	NAD27	21	B-horizon soil	1.0	19.1	70.9	12.0	1.0	
11293	580829	5660701	NAD27	21	B-horizon soil	1.0	25.0	70.7	11.7	11.8	
11294	580803	5660703	NAD27	21	B-horizon soil	1.0	23.6	76.9	18.8	1.0	
11295	580783	5660702	NAD27	21	B-horizon soil	1.0	20.2	45.8	14.7	1.0	
11296	580753	5660700	NAD27	21	B-horizon soil	1.0	14.3	50.1	19.6	1.0	
11297	580699	5660693	NAD27	21	B-horizon soil	1.0	33.4	265.7	28.2	1.0	
11298	580680	5660704	NAD27	21	B-horizon soil	1.0	19.4	97.8	1.0	1.0	
11299	580657	5660704	NAD27	21	B-horizon soil	1.0	17.2	48.2	7.7	1.0	
11300	580634	5660704	NAD27	21	B-horizon soil	1.0	10.0	28.7	9.6	1.0	
11301	577383	5659300	NAD27	21	B-horizon soil	1.0	115.2	166.6	40.5	1.0	
11302	577407	5659302	NAD27	21	B-horizon soil	1.0	37.1	66.9	26.8	1.0	
11303	577434	5659306	NAD27	21	B-horizon soil	1.0	33.7	90.1	15.0	1.0	
11304	577458	5659300	NAD27	21	B-horizon soil	1.0	44.7	87.9	32.8	1.0	
11305	577484	5659298	NAD27	21	B-horizon soil	1.0	82.5	257.9	33.2	1.0	
11306	577510	5659297	NAD27	21	B-horizon soil	1.0	585.6	579.4	278.6	11.4	
11307	577559	5659297	NAD27	21	B-horizon soil	1.0	24.2	74.4	17.6	1.0	
11308	577428	5658896	NAD27	21	B-horizon soil	26.6	6.7	14.2	5.7	11.0	
11309	577396	5658896	NAD27	21	B-horizon soil	26.6	6.5	10.8	5.7	11.4	
11310	577338	5658900	NAD27	21	B-horizon soil	27.3	7.6	13.6	6.4	11.0	
11311	577285	5658901	NAD27	21	B-horizon soil	26.4	8.7	17.6	8.6	10.5	
11312	577233	5658898	NAD27	21	B-horizon soil	18.3	22.1	12.4	18.2	9.6	
11313	577210	5658900	NAD27	21	B-horizon soil	25.3	7.8	11.1	6.3	10.6	
11314	577189	5658896	NAD27	21	B-horizon soil	25.7	10.4	15.1	9.2	7.4	
11315	577167	5658900	NAD27	21	B-horizon soil	27.0	15.2	18.1	13.0	11.0	
11316	577141	5658897	NAD27	21	B-horizon soil	22.2	5.8	10.8	5.5	10.1	
11317	577087	5658895	NAD27	21	B-horizon soil	21.8	7.6	25.4	7.7	7.8	
11318	577004	5658899	NAD27	21	B-horizon soil	24.3	7.5	24.2	6.6	10.3	
11319	576978	5658896	NAD27	21	B-horizon soil	28.9	7.1	12.3	8.5	11.3	
11320	576956	5658897	NAD27	21	B-horizon soil	27.9	7.5	13.5	6.2	11.1	
11321	576932	5658902	NAD27	21	B-horizon soil	28.0	7.1	14.8	6.2	11.1	
11322	578131	5658100	NAD27	21	B-horizon soil	1.0	24.3	122.0	26.5	1.0	
11323	578110	5658300	NAD27	21	B-horizon soil	1.0	25.0	68.3	24.0	1.0	
11324	578079	5658300	NAD27	21	B-horizon soil	1.0	25.8	165.3	1.0	1.0	
11325	578052	5658298	NAD27	21	B-horizon soil	1.0	24.8	152.5	1.0	1.0	
11326	578024	5658298	NAD27	21	B-horizon soil	1.0	48.4	235.9	12.5	1.0	
11327	577997	5658300	NAD27	21	B-horizon soil	1.0	27.1	39.0	9.0	1.0	
11328	577974	5658296	NAD27	21	B-horizon soil	1.0	27.4	60.1	13.7	1.0	

## Appendix 2: Sail Pond Soil Sample List

Sample Number	UTM Easting	UTM Northing	Datum	Zone	Sample Medium	pXRF Cu(ppm)	pXRF Pb(ppm)	pXRF Zn(ppm)	pXRF As(ppm)	pXRF Sb(ppm)	Check Analysis - Certificate Reference
11329	577945	5658295	NAD27	21	B-horizon soil	1.0	13.5	51.5	13.6	1.0	
11330	577918	5658297	NAD27	21	B-horizon soil	1.0	14.5	115.9	15.8	1.0	
11331	577885	5658300	NAD27	21	B-horizon soil	1.0	42.7	73.3	24.9	1.0	
11332	577862	5658298	NAD27	21	B-horizon soil	1.0	26.1	126.3	22.1	1.0	
11333	578056	5658098	NAD27	21	B-horizon soil	1.0	24.0	99.6	15.2	1.0	
11334	578029	5658100	NAD27	21	B-horizon soil	1.0	27.3	73.8	24.5	1.0	
11335	578001	5658102	NAD27	21	B-horizon soil	1.0	32.1	104.6	17.2	1.0	
11336	577952	5658098	NAD27	21	B-horizon soil	1.0	29.5	59.7	19.3	1.0	
11337	577919	5658098	NAD27	21	B-horizon soil	1.0	20.5	69.4	1.0	1.0	
11338	577889	5658096	NAD27	21	B-horizon soil	1.0	28.4	89.2	1.0	1.0	
11339	577844	5658097	NAD27	21	B-horizon soil	1.0	15.8	79.9	12.8	1.0	
11340	577828	5658100	NAD27	21	B-horizon soil	1.0	40.0	122.0	19.8	1.0	
11341	577793	5658103	NAD27	21	B-horizon soil	1.0	30.0	99.0	20.3	1.0	
11342	577722	5658496	NAD27	21	B-horizon soil	1.0	27.4	76.6	30.4	1.0	
11343	577691	5658500	NAD27	21	B-horizon soil	1.0	19.2	66.6	24.6	1.0	
11344	577669	5658498	NAD27	21	B-horizon soil	1.0	38.2	102.2	28.9	1.0	
11345	577638	5658500	NAD27	21	B-horizon soil	1.0	15.2	56.3	12.9	1.0	
11346	577609	5658497	NAD27	21	B-horizon soil	1.0	31.5	53.9	1.0	1.0	
11347	577581	5658495	NAD27	21	B-horizon soil	1.0	50.0	116.0	1.0	1.0	
11348	577551	5658494	NAD27	21	B-horizon soil	1.0	15.1	135.7	1.0	1.0	
11349	577526	5658495	NAD27	21	B-horizon soil	1.0	57.7	254.9	24.3	1.0	
11350	577498	5658496	NAD27	21	B-horizon soil	1.0	23.3	100.3	1.0	1.0	
11351	577474	5658495	NAD27	21	B-horizon soil	1.0	29.3	71.4	10.3	1.0	
11352	577439	5658500	NAD27	21	B-horizon soil	1.0	60.7	193.3	22.5	1.0	
11353	577407	5658500	NAD27	21	B-horizon soil	1.0	17.7	348.8	25.2	1.0	
11354	577371	5658498	NAD27	21	B-horizon soil	1.0	26.1	137.7	20.5	1.0	
11355	577345	5658495	NAD27	21	B-horizon soil	1.0	22.5	60.5	11.1	1.0	
11356	577320	5658499	NAD27	21	B-horizon soil	1.0	27.5	43.7	19.8	1.0	
11357	577529	5658698	NAD27	21	B-horizon soil	1.0	25.6	79.1	15.0	1.0	
11358	577564	5658696	NAD27	21	B-horizon soil	1.0	27.6	105.8	13.1	1.0	
11359	577585	5658695	NAD27	21	B-horizon soil	1.0	33.1	185.3	15.0	1.0	
11360	577612	5658700	NAD27	21	B-horizon soil	1.0	29.6	104.5	21.7	1.0	
11361	577643	5658698	NAD27	21	B-horizon soil	1.0	16.5	90.9	7.8	1.0	
11362	577673	5658698	NAD27	21	B-horizon soil	1.0	9.3	51.6	9.3	1.0	
11363	577698	5658701	NAD27	21	B-horizon soil	1.0	45.3	158.5	12.9	1.0	
11364	577750	5658898	NAD27	21	B-horizon soil	1.0	21.6	51.1	17.2	1.0	
11365	577775	5658906	NAD27	21	B-horizon soil	52.6	56.3	114.0	50.4	1.0	
11366	577835	5658900	NAD27	21	B-horizon soil	1.0	40.6	98.7	20.5	1.0	
11367	577964	5659300	NAD27	21	B-horizon soil	1.0	66.9	383.3	19.1	1.0	
11368	577935	5659301	NAD27	21	B-horizon soil	1.0	24.1	133.3	18.8	1.0	
11369	577911	5659307	NAD27	21	B-horizon soil	1.0	25.1	125.0	15.4	1.0	
11370	577844	5659300	NAD27	21	B-horizon soil	1.0	30.6	103.5	26.3	1.0	
11371	577812	5659298	NAD27	21	B-horizon soil	1.0	20.7	84.7	29.0	21.2	
11372	577784	5659300	NAD27	21	B-horizon soil	122.1	46.7	130.1	31.4	1.0	
11373	577756	5659300	NAD27	21	B-horizon soil	1.0	14.9	50.4	26.7	11.7	
11374	577728	5659303	NAD27	21	B-horizon soil	1.0	15.0	40.1	25.8	1.0	
11375	577695	5658902	NAD27	21	B-horizon soil	1.0	23.7	81.1	19.6	1.0	
11376	577668	5658898	NAD27	21	B-horizon soil	1.0	40.2	74.3	13.6	1.0	
11377	577642	5658900	NAD27	21	B-horizon soil	1.0	22.2	44.7	1.0	1.0	
11378	577618	5658902	NAD27	21	B-horizon soil	1.0	19.9	65.6	1.0	1.0	
11379	577597	5658896	NAD27	21	B-horizon soil	1.0	13.1	68.9	10.7	22.6	
11380	577570	5658900	NAD27	21	B-horizon soil	1.0	1.0	56.6	9.4	31.2	
11381	578079	5658902	NAD27	21	B-horizon soil	1.0	17.2	40.8	11.5	1.0	
11382	578107	5658902	NAD27	21	B-horizon soil	1.0	17.2	62.4	16.1	1.0	
11383	578138	5658899	NAD27	21	B-horizon soil	1.0	20.4	61.6	14.3	1.0	
11384	578164	5658900	NAD27	21	B-horizon soil	1.0	45.3	82.7	47.8	1.0	
11385	578196	5658901	NAD27	21	B-horizon soil	1.0	25.5	57.6	32.6	1.0	
11386	578223	5658905	NAD27	21	B-horizon soil	1.0	16.3	52.2	14.8	1.0	
11387	578253	5658902	NAD27	21	B-horizon soil	1.0	21.9	79.4	23.7	1.0	
11388	578279	5658900	NAD27	21	B-horizon soil	1.0	29.1	64.8	12.6	1.0	

## Appendix 2: Sail Pond Soil Sample List

Sample Number	UTM Easting	UTM Northing	Datum	Zone	Sample Medium	pXRF Cu(ppm)	pXRF Pb(ppm)	pXRF Zn(ppm)	pXRF As(ppm)	pXRF Sb(ppm)	Check Analysis - Certificate Reference
11389	578306	5658906	NAD27	21	B-horizon soil	1.0	29.3	86.3	16.3	15.2	
11390	578332	5658902	NAD27	21	B-horizon soil	1.0	16.5	44.6	10.7	1.0	
11391	578367	5658897	NAD27	21	B-horizon soil	1.0	15.3	48.2	13.4	17.4	
11392	578391	5658901	NAD27	21	B-horizon soil	1.0	19.7	63.6	11.0	24.3	
11393	578421	5658897	NAD27	21	B-horizon soil	1.0	26.7	112.4	11.2	13.7	
11394	578450	5658898	NAD27	21	B-horizon soil	1.0	19.9	46.3	8.5	1.0	
11395	578477	5658898	NAD27	21	B-horizon soil	1.0	22.3	79.5	27.2	1.0	
11396	578561	5658898	NAD27	21	B-horizon soil	1.0	22.0	52.6	1.0	1.0	
11397	578592	5658895	NAD27	21	B-horizon soil	1.0	17.6	34.4	16.6	1.0	
11398	578647	5658902	NAD27	21	B-horizon soil	1.0	25.8	51.2	9.9	1.0	
11399	578675	5658900	NAD27	21	B-horizon soil	1.0	27.2	88.1	15.9	1.0	
11400	578704	5658898	NAD27	21	B-horizon soil	1.0	26.7	61.6	10.8	1.0	
11401	578831	5658901	NAD27	21	B-horizon soil	1.0	14.4	35.7	8.1	1.0	
11402	578857	5658907	NAD27	21	B-horizon soil	1.0	25.9	52.7	34.7	1.0	
11403	578975	5658900	NAD27	21	B-horizon soil	1.0	51.7	71.1	35.6	1.0	
11404	579004	5658903	NAD27	21	B-horizon soil	1.0	19.5	59.8	24.0	1.0	
11405	579035	5658895	NAD27	21	B-horizon soil	1.0	36.7	91.8	16.3	1.0	
11406	579060	5658896	NAD27	21	B-horizon soil	1.0	18.3	54.7	11.0	1.0	
11407	579130	5658900	NAD27	21	B-horizon soil	1.0	35.8	179.7	22.3	1.0	
11408	579155	5658900	NAD27	21	B-horizon soil	1.0	24.6	81.6	16.0	1.0	
11409	579188	5658900	NAD27	21	B-horizon soil	1.0	18.9	58.3	1.0	18.1	
11410	579209	5658898	NAD27	21	B-horizon soil	1.0	20.9	40.9	16.4	12.6	
11411	579235	5658895	NAD27	21	B-horizon soil	1.0	31.5	79.6	14.7	15.3	
11412	579275	5658900	NAD27	21	B-horizon soil	1.0	25.6	98.2	24.1	1.0	
11413	579302	5658898	NAD27	21	B-horizon soil	1.0	13.6	47.1	13.6	1.0	
11414	579334	5658898	NAD27	21	B-horizon soil	1.0	27.1	162.3	14.1	1.0	
11415	579388	5658895	NAD27	21	B-horizon soil	1.0	27.8	71.2	16.3	1.0	
11416	579414	5658900	NAD27	21	B-horizon soil	1.0	16.6	53.0	57.0	1.0	
11417	579450	5658898	NAD27	21	B-horizon soil	1.0	13.8	38.9	15.6	1.0	
11418	579482	5658898	NAD27	21	B-horizon soil	79.0	41.1	159.5	107.2	1.0	
11419	579510	5658896	NAD27	21	B-horizon soil	1.0	27.0	83.1	16.6	21.2	
11420	579536	5658899	NAD27	21	B-horizon soil	1.0	30.6	67.6	16.0	12.0	
11421	579565	5658900	NAD27	21	B-horizon soil	1.0	32.8	137.1	89.8	1.0	
11422	579589	5658898	NAD27	21	B-horizon soil	36.0	18.7	81.3	26.1	1.0	
11423	579616	5658903	NAD27	21	B-horizon soil	1.0	36.9	194.8	12.9	1.0	
11424	579646	5658897	NAD27	21	B-horizon soil	1.0	25.8	171.0	11.2	1.0	
11425	579672	5658900	NAD27	21	B-horizon soil	1.0	39.2	66.2	12.6	1.0	
11426	579701	5658898	NAD27	21	B-horizon soil	1.0	21.8	73.2	12.6	1.0	
11427	579733	5658898	NAD27	21	B-horizon soil	1.0	21.4	109.9	1.0	12.0	
11428	579764	5658900	NAD27	21	B-horizon soil	1.0	17.9	87.5	8.6	12.0	
11429	579787	5658897	NAD27	21	B-horizon soil	1.0	25.4	84.9	1.0	1.0	
11430	579817	5658900	NAD27	21	B-horizon soil	1.0	25.1	72.0	16.6	21.5	
11431	579849	5658900	NAD27	21	B-horizon soil	1.0	17.8	47.3	8.9	1.0	
11432	579877	5658902	NAD27	21	B-horizon soil	1.0	35.1	171.4	26.8	1.0	
11433	579910	5658904	NAD27	21	B-horizon soil	50.6	27.8	84.5	17.6	1.0	
11434	579935	5658900	NAD27	21	B-horizon soil	1.0	32.7	78.6	16.6	1.0	
11435	579963	5658903	NAD27	21	B-horizon soil	1.0	19.4	47.0	22.4	12.7	
11436	579988	5658900	NAD27	21	B-horizon soil	1.0	26.8	44.6	9.1	1.0	
11437	580015	5658902	NAD27	21	B-horizon soil	1.0	18.9	49.9	10.0	1.0	
11438	580046	5658900	NAD27	21	B-horizon soil	1.0	30.6	91.8	17.9	1.0	
11439	580070	5658902	NAD27	21	B-horizon soil	1.0	35.8	74.5	15.6	1.0	
11440	580090	5658900	NAD27	21	B-horizon soil	29.7	39.9	122.9	19.8	1.0	
11441	577853	5659499	NAD27	21	B-horizon soil	1.0	16.0	35.5	1.0	11.8	
11442	577880	5659502	NAD27	21	B-horizon soil	1.0	24.4	79.3	23.5	1.0	
11443	577904	5659500	NAD27	21	B-horizon soil	1.0	23.5	65.8	1.0	13.0	
11444	577931	5659498	NAD27	21	B-horizon soil	1.0	15.4	48.5	8.7	25.5	
11445	577960	5659498	NAD27	21	B-horizon soil	43.3	16.8	59.1	12.0	31.4	
11446	577984	5659500	NAD27	21	B-horizon soil	1.0	46.4	120.7	16.5	1.0	
11447	578011	5659504	NAD27	21	B-horizon soil	1.0	32.3	90.8	16.3	1.0	
11448	578036	5659497	NAD27	21	B-horizon soil	32.1	14.2	59.8	1.0	19.2	



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Sample Number	UTM Easting	UTM Northing	Datum	Zone	Sample Medium	pXRF Cu(ppm)	pXRF Pb(ppm)	pXRF Zn(ppm)	pXRF As(ppm)	pXRF Sb(ppm)	Check Analysis - Certificate Reference
11449	578068	5659494	NAD27	21	B-horizon soil	1.0	18.8	71.4	16.6	16.3	
11450	578092	5659498	NAD27	21	B-horizon soil	1.0	26.1	58.1	12.1	1.0	
11451	578108	5659505	NAD27	21	B-horizon soil	33.3	23.5	136.3	21.1	13.5	
11452	578125	5659700	NAD27	21	B-horizon soil	1.0	19.0	74.3	10.1	1.0	
11453	578100	5659702	NAD27	21	B-horizon soil	1.0	15.1	62.6	9.9	26.0	
11454	578074	5659700	NAD27	21	B-horizon soil	1.0	57.5	194.6	22.1	1.0	
11455	578050	5659704	NAD27	21	B-horizon soil	1.0	14.2	82.8	8.7	1.0	
11456	578024	5659702	NAD27	21	B-horizon soil	1.0	32.3	119.0	33.7	24.5	
11457	577998	5659700	NAD27	21	B-horizon soil	1.0	27.4	88.5	16.4	19.6	
11458	577970	5659702	NAD27	21	B-horizon soil	30.6	27.5	51.6	13.7	1.0	
11459	577950	5659708	NAD27	21	B-horizon soil	1.0	28.3	72.6	18.4	11.8	
11460	578083	5659903	NAD27	21	B-horizon soil	1.0	23.9	91.2	12.0	28.2	
11461	578116	5659905	NAD27	21	B-horizon soil	1.0	15.3	119.4	19.4	19.3	
11462	578176	5659896	NAD27	21	B-horizon soil	1.0	28.0	77.1	20.8	1.0	
11463	578208	5659904	NAD27	21	B-horizon soil	1.0	20.5	46.9	9.1	1.0	
11464	578234	5659896	NAD27	21	B-horizon soil	1.0	25.1	64.0	1.0	1.0	
11465	578420	5660095	NAD27	21	B-horizon soil	1.0	15.2	29.5	8.4	1.0	
11466	578404	5660098	NAD27	21	B-horizon soil	1.0	18.9	90.1	19.1	1.0	
11467	578378	5660103	NAD27	21	B-horizon soil	1.0	30.8	424.4	13.6	1.0	
11468	578355	5660095	NAD27	21	B-horizon soil	1.0	73.3	193.1	12.4	1.0	
11469	578328	5660102	NAD27	21	B-horizon soil	1.0	15.5	101.8	11.0	1.0	
11470	578297	5660094	NAD27	21	B-horizon soil	1.0	14.9	32.2	10.0	1.0	
11471	578269	5660100	NAD27	21	B-horizon soil	1.0	37.4	256.1	12.9	1.0	
11472	578237	5660100	NAD27	21	B-horizon soil	1.0	20.6	158.5	14.2	1.0	
11473	578212	5660096	NAD27	21	B-horizon soil	1.0	1.0	49.1	8.1	1.0	
11474	578184	5660100	NAD27	21	B-horizon soil	56.5	46.5	96.5	31.5	1.0	
11475	578154	5660106	NAD27	21	B-horizon soil	56.3	55.5	160.9	33.2	1.0	
11476	578123	5660098	NAD27	21	B-horizon soil	119.3	37.3	108.9	14.3	1.0	
11477	578011	5660102	NAD27	21	B-horizon soil	1.0	27.3	94.3	13.7	13.4	
11478	577985	5660100	NAD27	21	B-horizon soil	1.0	39.3	34.5	20.9	1.0	
11479	578008	5660301	NAD27	21	B-horizon soil	56.0	170.2	448.3	49.2	1.0	
11480	578034	5660302	NAD27	21	B-horizon soil	1.0	18.8	72.4	9.7	19.7	
11481	578061	5660300	NAD27	21	B-horizon soil	1.0	24.7	104.4	8.7	1.0	
11482	578083	5660302	NAD27	21	B-horizon soil	1.0	53.1	687.1	39.2	1.0	
11483	578110	5660300	NAD27	21	B-horizon soil	1.0	40.4	84.5	87.9	21.1	
11484	578163	5660298	NAD27	21	B-horizon soil	41.6	26.4	166.0	12.3	1.0	
11485	578189	5660300	NAD27	21	B-horizon soil	1.0	21.3	77.0	18.5	1.0	
11486	578222	5660298	NAD27	21	B-horizon soil	1.0	20.2	65.4	7.8	1.0	
11487	578247	5660301	NAD27	21	B-horizon soil	1.0	16.0	90.3	12.1	1.0	
11488	578273	5660303	NAD27	21	B-horizon soil	1.0	20.0	52.4	1.0	1.0	
11489	578299	5660298	NAD27	21	B-horizon soil	1.0	64.2	51.9	46.1	1.0	
11490	578330	5660301	NAD27	21	B-horizon soil	1.0	15.9	45.7	12.8	1.0	
11491	578360	5660300	NAD27	21	B-horizon soil	1.0	21.1	36.1	1.0	1.0	
11492	578385	5660304	NAD27	21	B-horizon soil	52.3	29.9	64.9	30.6	1.0	
11493	578415	5660300	NAD27	21	B-horizon soil	1.0	9.2	42.8	17.7	1.0	
11494	578447	5660299	NAD27	21	B-horizon soil	1.0	18.1	227.8	19.0	1.0	
11495	578480	5660302	NAD27	21	B-horizon soil	1.0	29.9	228.9	25.9	1.0	
11496	578503	5660300	NAD27	21	B-horizon soil	1.0	36.8	85.8	23.3	1.0	
11497	578528	5660304	NAD27	21	B-horizon soil	1.0	34.1	56.6	1.0	1.0	
11498	578588	5660505	NAD27	21	B-horizon soil	1.0	22.7	55.3	9.9	1.0	
11499	578558	5660506	NAD27	21	B-horizon soil	1.0	24.4	51.4	10.7	1.0	
11500	578526	5660500	NAD27	21	B-horizon soil	1.0	22.1	45.8	9.7	1.0	
11501	577540	5656502	NAD27	21	B-horizon soil	1.0	13.3	91.1	12.5	1.0	
11502	577566	5656500	NAD27	21	B-horizon soil	1.0	29.5	51.9	1.0	1.0	
11503	577589	5656505	NAD27	21	B-horizon soil	1.0	21.3	30.5	12.0	1.0	
11504	577019	5656498	NAD27	21	B-horizon soil	1.0	26.6	90.0	1.0	1.0	
11505	577652	5656487	NAD27	21	B-horizon soil	1.0	26.8	63.2	14.2	1.0	
11506	577689	5656500	NAD27	21	B-horizon soil	1.0	20.5	54.7	1.0	1.0	
11507	577774	5656499	NAD27	21	B-horizon soil	1.0	24.9	68.2	1.0	1.0	
11508	577808	5656499	NAD27	21	B-horizon soil	1.0	27.5	38.2	1.0	1.0	

## Appendix 2: Sail Pond Soil Sample List

Sample Number	UTM Easting	UTM Northing	Datum	Zone	Sample Medium	pXRF Cu(ppm)	pXRF Pb(ppm)	pXRF Zn(ppm)	pXRF As(ppm)	pXRF Sb(ppm)	Check Analysis - Certificate Reference
11509	577838	5656500	NAD27	21	B-horizon soil	1.0	18.5	108.5	1.0	1.0	
11510	577862	5656498	NAD27	21	B-horizon soil	1.0	21.9	81.0	1.0	1.0	
11511	577893	5656499	NAD27	21	B-horizon soil	1.0	28.9	71.4	1.0	1.0	
11512	577917	5656500	NAD27	21	B-horizon soil	1.0	16.8	30.9	35.2	1.0	
11513	577984	5656501	NAD27	21	B-horizon soil	1.0	32.2	66.7	14.7	1.0	
11514	578020	5656500	NAD27	21	B-horizon soil	1.0	21.7	72.8	1.0	1.0	
11515	578037	5656500	NAD27	21	B-horizon soil	1.0	23.3	50.4	15.4	1.0	
11516	578064	5656497	NAD27	21	B-horizon soil	1.0	38.4	57.6	9.2	1.0	
11517	578089	5656503	NAD27	21	B-horizon soil	1.0	36.9	88.4	35.9	1.0	
11518	578117	5656501	NAD27	21	B-horizon soil	1.0	18.0	186.7	17.0	1.0	
11519	578165	5656501	NAD27	21	B-horizon soil	1.0	21.0	83.3	20.3	1.0	
11520	578210	5656501	NAD27	21	B-horizon soil	1.0	23.5	64.1	27.0	1.0	
11521	578261	5656496	NAD27	21	B-horizon soil	1.0	26.9	86.3	20.9	1.0	
11522	578308	5656506	NAD27	21	B-horizon soil	1.0	18.0	57.0	18.0	1.0	
11523	578339	5656500	NAD27	21	B-horizon soil	1.0	23.8	80.8	12.5	1.0	
11524	578363	5656496	NAD27	21	B-horizon soil	1.0	18.5	68.6	19.5	1.0	
11525	578463	5656908	NAD27	21	B-horizon soil	1.0	9.5	31.7	16.7	1.0	
11526	578327	5656897	NAD27	21	B-horizon soil	1.0	16.9	67.8	18.1	1.0	
11527	578308	5656898	NAD27	21	B-horizon soil	1.0	17.1	49.1	13.5	1.0	
11528	578265	5656896	NAD27	21	B-horizon soil	1.0	12.8	70.3	12.4	1.0	
11529	578240	5656898	NAD27	21	B-horizon soil	1.0	20.8	85.8	19.8	1.0	
11530	578215	5656900	NAD27	21	B-horizon soil	1.0	30.5	81.6	21.5	1.0	
11531	578173	5656896	NAD27	21	B-horizon soil	1.0	24.5	58.3	15.7	1.0	
11532	578189	5656892	NAD27	21	B-horizon soil	1.0	15.6	87.2	11.9	1.0	
11533	578123	5656895	NAD27	21	B-horizon soil	1.0	29.0	69.9	14.6	1.0	
11534	578092	5656897	NAD27	21	B-horizon soil	1.0	23.9	44.0	21.3	1.0	
11535	577998	5656897	NAD27	21	B-horizon soil	1.0	35.4	59.8	11.4	1.0	
11536	577968	5656895	NAD27	21	B-horizon soil	1.0	21.7	73.1	1.0	1.0	
11537	577944	5656900	NAD27	21	B-horizon soil	1.0	19.2	44.8	11.1	1.0	
11538	577913	5656899	NAD27	21	B-horizon soil	1.0	18.0	49.6	10.7	1.0	
11539	577884	5656902	NAD27	21	B-horizon soil	1.0	18.9	53.7	12.5	1.0	
11540	577856	5656890	NAD27	21	B-horizon soil	1.0	31.1	91.0	1.0	1.0	
11541	577830	5656897	NAD27	21	B-horizon soil	1.0	11.3	47.3	16.5	1.0	
11542	577805	5656902	NAD27	21	B-horizon soil	1.0	10.2	38.5	12.5	1.0	
11543	577763	5656898	NAD27	21	B-horizon soil	1.0	25.6	57.7	1.0	1.0	
11544	577689	5656897	NAD27	21	B-horizon soil	1.0	20.4	42.3	12.0	1.0	
11545	577636	5656895	NAD27	21	B-horizon soil	1.0	23.4	38.2	1.0	20.9	
11546	577607	5656896	NAD27	21	B-horizon soil	1.0	25.9	47.1	12.3	1.0	
11547	577551	5656897	NAD27	21	B-horizon soil	1.0	18.6	52.8	18.6	1.0	
11548	577529	5656908	NAD27	21	B-horizon soil	1.0	32.9	59.8	1.0	1.0	
11549	577487	5656908	NAD27	21	B-horizon soil	1.0	28.8	71.0	19.8	1.0	
11550	577454	5656898	NAD27	21	B-horizon soil	1.0	28.1	74.8	11.8	1.0	
11551	577426	5656899	NAD27	21	B-horizon soil	1.0	1.0	31.0	14.9	1.0	
11552	577398	5656897	NAD27	21	B-horizon soil	1.0	15.4	80.2	16.5	1.0	
11553	577364	5656904	NAD27	21	B-horizon soil	42.5	26.4	89.1	69.2	1.0	
11554	577325	5656902	NAD27	21	B-horizon soil	1.0	14.7	52.8	10.0	1.0	
11555	577302	5656894	NAD27	21	B-horizon soil	1.0	31.8	57.6	10.8	1.0	
11556	577250	5656900	NAD27	21	B-horizon soil	1.0	12.9	30.3	1.0	1.0	
11557	577230	5656905	NAD27	21	B-horizon soil	1.0	24.4	229.5	24.3	1.0	
11558	577202	5656895	NAD27	21	B-horizon soil	1.0	29.5	117.0	19.6	1.0	
11559	577261	5657300	NAD27	21	B-horizon soil	1.0	11.4	50.9	7.2	1.0	
11560	577165	5657296	NAD27	21	B-horizon soil	1.0	1.0	38.7	9.3	1.0	
11561	577132	5657305	NAD27	21	B-horizon soil	1.0	30.8	172.7	22.9	1.0	
11562	577115	5657297	NAD27	21	B-horizon soil	1.0	20.6	137.3	18.9	1.0	
11563	577084	5657302	NAD27	21	B-horizon soil	1.0	19.3	68.3	8.0	1.0	
11564	576925	5658900	NAD27	21	B-horizon soil	1.0	19.7	80.5	16.6	1.0	
11565	576899	5658902	NAD27	21	B-horizon soil	41.3	26.5	61.7	10.0	1.0	
11566	576875	5658898	NAD27	21	B-horizon soil	1.0	26.2	167.3	13.9	1.0	
11567	576823	5658897	NAD27	21	B-horizon soil	1.0	18.4	59.5	13.1	1.0	
11568	576800	5658897	NAD27	21	B-horizon soil	1.0	20.1	58.4	12.0	1.0	

## Appendix 2: Sail Pond Soil Sample List

Sample Number	UTM Easting	UTM Northing	Datum	Zone	Sample Medium	pXRF Cu(ppm)	pXRF Pb(ppm)	pXRF Zn(ppm)	pXRF As(ppm)	pXRF Sb(ppm)	Check Analysis - Certificate Reference
11569	576616	5658900	NAD27	21	B-horizon soil	1.0	18.0	47.8	14.1	1.0	
11570	576590	5658900	NAD27	21	B-horizon soil	1.0	19.1	83.1	23.6	1.0	
11571	576550	5658903	NAD27	21	B-horizon soil	1.0	11.8	33.3	20.4	1.0	
11572	576525	5658900	NAD27	21	B-horizon soil	1.0	1.0	46.1	15.3	1.0	
11573	576511	5659300	NAD27	21	B-horizon soil	1.0	13.0	44.0	22.2	1.0	
11574	576539	5659302	NAD27	21	B-horizon soil	110.4	44.2	134.5	34.6	1.0	
11575	576563	5659304	NAD27	21	B-horizon soil	1.0	14.7	44.7	11.9	1.0	
11576	576587	5659301	NAD27	21	B-horizon soil	1.0	14.6	62.4	15.0	1.0	
11577	576610	5659300	NAD27	21	B-horizon soil	1.0	13.6	77.7	14.8	1.0	
11578	576632	5659298	NAD27	21	B-horizon soil	1.0	13.5	29.8	22.4	1.0	
11579	576661	5659302	NAD27	21	B-horizon soil	42.6	19.9	75.5	30.4	1.0	
11580	576705	5659300	NAD27	21	B-horizon soil	1.0	24.6	67.2	20.1	1.0	
11581	576727	5659300	NAD27	21	B-horizon soil	34.5	29.4	53.6	37.6	1.0	
11582	576755	5659298	NAD27	21	B-horizon soil	1.0	19.8	66.8	9.3	1.0	
11583	576784	5659300	NAD27	21	B-horizon soil	1.0	29.6	89.8	19.9	1.0	
11584	576810	5659297	NAD27	21	B-horizon soil	1.0	14.4	63.1	18.7	15.9	
11585	576834	5659296	NAD27	21	B-horizon soil	1.0	18.3	68.0	17.8	1.0	
11586	576863	5659302	NAD27	21	B-horizon soil	38.3	15.4	31.9	25.6	1.0	
11587	576892	5659303	NAD27	21	B-horizon soil	36.2	15.7	273.6	23.0	1.0	
11588	576917	5659300	NAD27	21	B-horizon soil	46.0	17.2	106.0	20.9	1.0	
11589	576954	5659300	NAD27	21	B-horizon soil	1.0	14.7	67.6	8.9	1.0	
11591	577013	5659300	NAD27	21	B-horizon soil	1.0	26.6	83.1	1.0	1.0	
11592	577070	5659300	NAD27	21	B-horizon soil	1.0	28.2	90.8	17.8	1.0	
11593	577135	5659300	NAD27	21	B-horizon soil	1.0	36.8	60.3	16.2	1.0	
11594	577188	5659300	NAD27	21	B-horizon soil	1.0	13.7	62.2	26.2	1.0	
11595	577218	5659301	NAD27	21	B-horizon soil	1.0	37.4	120.4	21.2	1.0	
11596	577248	5659300	NAD27	21	B-horizon soil	1.0	62.7	105.1	18.7	1.0	
11597	577275	5659302	NAD27	21	B-horizon soil	1.0	51.1	127.6	28.3	1.0	
11598	577300	5659298	NAD27	21	B-horizon soil	122.6	415.7	342.9	62.8	1.0	
11599	577331	5659300	NAD27	21	B-horizon soil	1.0	212.2	378.4	36.0	11.6	
11600	577359	5659300	NAD27	21	B-horizon soil	33.0	28.5	89.9	29.2	1.0	
11601	575646	5655305	NAD27	21	B-horizon soil	1.0	18.4	63.0	19.4	1.0	
11602	575619	5655299	NAD27	21	B-horizon soil	1.0	19.2	57.0	10.8	1.0	
11603	575591	5655297	NAD27	21	B-horizon soil	1.0	26.4	66.8	1.0	1.0	
11604	575537	5655299	NAD27	21	B-horizon soil	1.0	30.7	64.3	10.7	1.0	
11605	575513	5655298	NAD27	21	B-horizon soil	1.0	17.4	37.4	1.0	1.0	
11606	575493	5655301	NAD27	21	B-horizon soil	1.0	20.8	161.8	1.0	1.0	
11607	575467	5655297	NAD27	21	B-horizon soil	1.0	17.1	43.0	8.7	15.3	
11608	575437	5655301	NAD27	21	B-horizon soil	1.0	23.0	125.7	12.9	1.0	
11609	575413	5655298	NAD27	21	B-horizon soil	1.0	32.4	133.6	10.1	1.0	
11610	575378	5655302	NAD27	21	B-horizon soil	1.0	25.1	84.8	1.0	1.0	
11611	575353	5655295	NAD27	21	B-horizon soil	1.0	43.7	86.0	36.2	1.0	
11612	575327	5655296	NAD27	21	B-horizon soil	1.0	27.3	118.9	25.6	1.0	
11613	575295	5655300	NAD27	21	B-horizon soil	1.0	19.8	182.8	1.0	1.0	
11614	575266	5655302	NAD27	21	B-horizon soil	1.0	30.1	101.7	12.1	1.0	
11615	575239	5655302	NAD27	21	B-horizon soil	1.0	23.2	102.3	11.3	1.0	
11616	575217	5655301	NAD27	21	B-horizon soil	1.0	34.6	73.3	18.0	1.0	
11617	575190	5655301	NAD27	21	B-horizon soil	1.0	20.3	39.6	12.4	1.0	
11618	575143	5655306	NAD27	21	B-horizon soil	1.0	36.1	289.6	1.0	1.0	
11619	575112	5655297	NAD27	21	B-horizon soil	33.7	36.2	194.4	38.0	1.0	
11620	575086	5655298	NAD27	21	B-horizon soil	1.0	24.6	136.2	11.7	1.0	
11621	575053	5655299	NAD27	21	B-horizon soil	1.0	16.1	85.9	10.2	1.0	
11622	575008	5655299	NAD27	21	B-horizon soil	1.0	37.2	115.9	1.0	1.0	
11623	574967	5655306	NAD27	21	B-horizon soil	1.0	17.2	140.4	10.4	1.0	
11624	574944	5655301	NAD27	21	B-horizon soil	1.0	29.0	134.2	9.4	1.0	
11625	574920	5655298	NAD27	21	B-horizon soil	1.0	21.0	74.7	10.2	1.0	
11626	574754	5655297	NAD27	21	B-horizon soil	1.0	25.7	60.2	13.3	1.0	
11627	574753	5654896	NAD27	21	B-horizon soil	1.0	36.4	86.7	10.6	12.7	
11628	574884	5654897	NAD27	21	B-horizon soil	1.0	16.5	43.9	9.0	1.0	
11629	574912	5654898	NAD27	21	B-horizon soil	1.0	22.8	66.1	12.7	1.0	

## Appendix 2: Sail Pond Soil Sample List

Sample Number	UTM Easting	UTM Northing	Datum	Zone	Sample Medium	pXRF Cu(ppm)	pXRF Pb(ppm)	pXRF Zn(ppm)	pXRF As(ppm)	pXRF Sb(ppm)	Check Analysis - Certificate Reference
11630	574933	5654904	NAD27	21	B-horizon soil	1.0	20.9	65.2	9.1	26.8	
11631	574987	5654896	NAD27	21	B-horizon soil	1.0	22.1	57.2	11.2	1.0	
11632	575005	5654906	NAD27	21	B-horizon soil	1.0	18.9	66.7	15.4	1.0	
11633	575033	5654895	NAD27	21	B-horizon soil	1.0	35.3	91.6	21.8	1.0	
11634	575055	5654903	NAD27	21	B-horizon soil	1.0	49.6	100.4	11.8	1.0	
11635	575213	5654902	NAD27	21	B-horizon soil	1.0	35.9	52.5	19.6	1.0	
11636	575242	5654902	NAD27	21	B-horizon soil	1.0	17.0	38.1	12.0	1.0	
11637	575318	5654904	NAD27	21	B-horizon soil	1.0	15.6	89.6	15.5	1.0	
11638	575342	5654905	NAD27	21	B-horizon soil	1.0	30.7	76.7	13.4	16.3	
11639	575372	5654900	NAD27	21	B-horizon soil	1.0	20.6	42.4	9.9	1.0	
11640	575401	5654898	NAD27	21	B-horizon soil	1.0	25.2	37.6	9.0	1.0	
11641	575432	5654897	NAD27	21	B-horizon soil	1.0	24.8	104.2	13.8	1.0	
11642	575876	5655298	NAD27	21	B-horizon soil	1.0	26.0	79.2	20.9	1.0	
11643	576029	5655305	NAD27	21	B-horizon soil	1.0	23.8	41.4	1.0	1.0	
11644	576049	5655300	NAD27	21	B-horizon soil	1.0	20.7	37.7	1.0	1.0	
11645	576080	5655299	NAD27	21	B-horizon soil	1.0	18.9	60.2	12.8	1.0	
11646	576128	5655303	NAD27	21	B-horizon soil	1.0	23.4	128.0	11.7	1.0	
11647	576181	5655303	NAD27	21	B-horizon soil	1.0	23.7	76.8	17.2	1.0	
11648	576200	5655303	NAD27	21	B-horizon soil	1.0	24.5	63.1	1.0	1.0	
11649	576232	5655301	NAD27	21	B-horizon soil	1.0	19.6	79.4	14.0	1.0	
11650	576255	5655302	NAD27	21	B-horizon soil	1.0	22.5	96.2	13.8	1.0	
11651	576358	5655296	NAD27	21	B-horizon soil	1.0	20.9	105.2	15.7	16.6	
11652	576381	5655301	NAD27	21	B-horizon soil	1.0	25.2	71.7	1.0	1.0	
11653	576406	5655307	NAD27	21	B-horizon soil	1.0	19.2	80.5	12.4	1.0	
11654	576425	5655306	NAD27	21	B-horizon soil	1.0	13.6	45.5	1.0	1.0	
11655	576477	5655300	NAD27	21	B-horizon soil	1.0	18.1	95.9	11.8	1.0	
11656	576515	5655303	NAD27	21	B-horizon soil	33.9	24.6	87.1	14.5	1.0	
11657	576663	5655286	NAD27	21	B-horizon soil	40.0	25.6	105.0	13.6	13.0	
11658	576711	5655285	NAD27	21	B-horizon soil	1.0	21.0	52.7	1.0	25.6	
11659	576737	5655304	NAD27	21	B-horizon soil	1.0	24.3	75.4	1.0	15.8	
11660	576782	5655295	NAD27	21	B-horizon soil	1.0	16.3	65.8	14.8	17.6	
11661	576599	5654900	NAD27	21	B-horizon soil	1.0	20.6	143.6	14.6	1.0	
11662	576567	5654897	NAD27	21	B-horizon soil	1.0	37.3	200.9	15.0	1.0	
11663	576544	5654903	NAD27	21	B-horizon soil	1.0	21.7	113.1	1.0	1.0	
11664	576519	5654899	NAD27	21	B-horizon soil	30.3	28.2	145.1	13.0	1.0	
11665	576494	5654900	NAD27	21	B-horizon soil	1.0	19.8	37.4	9.3	1.0	
11666	576469	5654898	NAD27	21	B-horizon soil	1.0	21.0	53.4	1.0	1.0	
11667	576420	5654898	NAD27	21	B-horizon soil	1.0	20.9	66.3	1.0	1.0	
11668	576394	5654902	NAD27	21	B-horizon soil	1.0	22.3	67.9	1.0	1.0	
11669	576366	5654899	NAD27	21	B-horizon soil	1.0	17.1	36.0	9.6	1.0	
11670	576341	5654901	NAD27	21	B-horizon soil	1.0	22.7	65.7	1.0	1.0	
11671	576321	5654897	NAD27	21	B-horizon soil	1.0	19.6	99.3	10.5	1.0	
11672	576295	5654897	NAD27	21	B-horizon soil	1.0	21.0	87.5	1.0	1.0	
11673	576273	5654899	NAD27	21	B-horizon soil	1.0	19.2	57.1	12.4	1.0	
11674	576240	5654898	NAD27	21	B-horizon soil	1.0	41.0	227.3	1.0	1.0	
11675	576220	5654897	NAD27	21	B-horizon soil	1.0	21.3	81.0	11.7	13.1	
11676	576191	5654895	NAD27	21	B-horizon soil	35.1	29.3	234.6	15.9	1.0	
11677	576160	5654897	NAD27	21	B-horizon soil	1.0	25.2	263.0	18.1	1.0	
11678	576137	5654899	NAD27	21	B-horizon soil	1.0	14.6	59.0	8.5	11.6	
11679	576113	5654898	NAD27	21	B-horizon soil	1.0	21.5	55.9	11.9	1.0	
11680	576021	5654499	NAD27	21	B-horizon soil	1.0	17.4	65.6	10.3	1.0	
11681	576037	5654501	NAD27	21	B-horizon soil	1.0	26.2	69.3	11.1	1.0	
11682	576076	5654497	NAD27	21	B-horizon soil	1.0	19.1	35.8	1.0	1.0	
11683	576240	5654500	NAD27	21	B-horizon soil	1.0	25.9	59.5	1.0	1.0	
11684	576265	5654501	NAD27	21	B-horizon soil	1.0	24.8	77.5	1.0	1.0	
11685	576291	5654501	NAD27	21	B-horizon soil	1.0	24.7	66.6	10.3	1.0	
11686	576319	5654501	NAD27	21	B-horizon soil	1.0	20.7	82.7	16.0	1.0	
11687	576342	5654500	NAD27	21	B-horizon soil	1.0	27.1	111.1	10.6	1.0	
11688	576376	5654499	NAD27	21	B-horizon soil	1.0	11.2	75.3	11.4	1.0	
11689	576414	5654502	NAD27	21	B-horizon soil	35.5	30.1	84.4	10.6	14.1	

## Appendix 2: Sail Pond Soil Sample List

Sample Number	UTM Easting	UTM Northing	Datum	Zone	Sample Medium	pXRF Cu(ppm)	pXRF Pb(ppm)	pXRF Zn(ppm)	pXRF As(ppm)	pXRF Sb(ppm)	Check Analysis - Certificate Reference
11690	576439	5654500	NAD27	21	B-horizon soil	1.0	35.3	90.7	12.2	1.0	
11691	576453	5654492	NAD27	21	B-horizon soil	1.0	15.1	55.8	8.9	1.0	
11692	577252	5656505	NAD27	21	B-horizon soil	1.0	11.4	57.5	9.6	1.0	
11693	577280	5656500	NAD27	21	B-horizon soil	1.0	24.4	58.3	1.0	1.0	
11694	577298	5656502	NAD27	21	B-horizon soil	1.0	20.9	59.6	1.0	17.8	
11695	577317	5656502	NAD27	21	B-horizon soil	1.0	13.2	35.2	12.9	1.0	
11696	577383	5656504	NAD27	21	B-horizon soil	1.0	38.8	129.8	17.4	1.0	
11697	577415	5656506	NAD27	21	B-horizon soil	1.0	12.3	47.1	11.4	1.0	
11698	577454	5656503	NAD27	21	B-horizon soil	1.0	25.0	57.3	1.0	1.0	
11699	577487	5656502	NAD27	21	B-horizon soil	1.0	23.3	43.8	10.4	1.0	
11700	577510	5656501	NAD27	21	B-horizon soil	1.0	31.9	124.3	13.0	1.0	
11701	573596	5652699	NAD27	21	B-horizon soil	1.0	27.7	86.2	1.0	1.0	
11702	573992	5653305	NAD27	21	B-horizon soil	1.0	18.2	55.9	8.8	1.0	
11703	573968	5653306	NAD27	21	B-horizon soil	1.0	17.6	54.8	12.4	1.0	
11704	573940	5653297	NAD27	21	B-horizon soil	1.0	10.2	41.1	8.9	1.0	
11705	573918	5653294	NAD27	21	B-horizon soil	1.0	12.5	58.2	9.9	1.0	
11706	573888	5653298	NAD27	21	B-horizon soil	33.8	12.8	93.1	9.6	1.0	
11707	573867	5653294	NAD27	21	B-horizon soil	1.0	11.6	80.2	21.8	1.0	
11708	573843	5653292	NAD27	21	B-horizon soil	1.0	15.3	45.1	10.9	1.0	
11709	573817	5653307	NAD27	21	B-horizon soil	1.0	1.0	42.6	11.2	1.0	
11710	573793	5653311	NAD27	21	B-horizon soil	1.0	27.3	77.8	1.0	1.0	
11711	573768	5653300	NAD27	21	B-horizon soil	1.0	23.3	66.7	12.4	1.0	
11712	573743	5653297	NAD27	21	B-horizon soil	32.6	35.8	139.4	12.0	1.0	
11713	573715	5653292	NAD27	21	B-horizon soil	1.0	19.9	136.8	15.4	1.0	
11714	573693	5653295	NAD27	21	B-horizon soil	1.0	19.2	66.3	13.1	1.0	
11715	573666	5653295	NAD27	21	B-horizon soil	1.0	13.2	57.1	10.5	1.0	
11716	573642	5653302	NAD27	21	B-horizon soil	1.0	14.3	79.5	17.3	1.0	
11717	573616	5653299	NAD27	21	B-horizon soil	1.0	13.7	65.8	1.0	1.0	
11718	573588	5653305	NAD27	21	B-horizon soil	43.8	22.2	60.1	19.4	1.0	
11719	573567	5653304	NAD27	21	B-horizon soil	1.0	17.5	72.1	12.1	1.0	
11720	573540	5653300	NAD27	21	B-horizon soil	1.0	21.6	61.4	11.0	1.0	
11721	573517	5653297	NAD27	21	B-horizon soil	1.0	28.7	62.7	10.5	1.0	
11722	573497	5653302	NAD27	21	B-horizon soil	1.0	19.9	74.3	10.8	1.0	
11723	573594	5653702	NAD27	21	B-horizon soil	1.0	14.0	34.2	11.1	1.0	
11724	573713	5653704	NAD27	21	B-horizon soil	1.0	14.4	47.4	1.0	1.0	
11725	573728	5653699	NAD27	21	B-horizon soil	1.0	16.4	29.8	9.5	1.0	
11726	573797	5653699	NAD27	21	B-horizon soil	1.0	14.8	81.2	10.6	1.0	
11727	573800	5653701	NAD27	21	B-horizon soil	1.0	17.1	33.5	9.2	1.0	
11728	573853	5653697	NAD27	21	B-horizon soil	1.0	19.3	59.9	19.3	1.0	
11729	574024	5653703	NAD27	21	B-horizon soil	1.0	10.6	37.7	14.0	1.0	
11730	574050	5653689	NAD27	21	B-horizon soil	34.0	24.2	72.1	1.0	1.0	
11731	574078	5653696	NAD27	21	B-horizon soil	1.0	17.0	47.5	10.3	1.0	
11732	574103	5653704	NAD27	21	B-horizon soil	1.0	16.1	49.5	1.0	1.0	
11733	574127	5653698	NAD27	21	B-horizon soil	1.0	13.6	109.2	9.1	1.0	
11734	574140	5653697	NAD27	21	B-horizon soil	1.0	19.7	81.4	10.7	1.0	
11735	574330	5653686	NAD27	21	B-horizon soil	1.0	17.4	37.0	1.0	1.0	
11736	574385	5653701	NAD27	21	B-horizon soil	1.0	31.3	87.1	1.0	1.0	
11737	574410	5653698	NAD27	21	B-horizon soil	1.0	36.5	80.6	1.0	1.0	
11738	574436	5653707	NAD27	21	B-horizon soil	1.0	36.4	143.1	13.1	1.0	
11739	574450	5653700	NAD27	21	B-horizon soil	1.0	31.8	116.7	15.4	1.0	
11740	574469	5653697	NAD27	21	B-horizon soil	1.0	36.1	115.6	1.0	1.0	
11741	576232	5653698	NAD27	21	B-horizon soil	1.0	27.9	85.4	15.3	21.1	
11742	576260	5653698	NAD27	21	B-horizon soil	1.0	19.3	61.2	18.6	1.0	
11743	576281	5653703	NAD27	21	B-horizon soil	1.0	49.7	125.2	15.0	1.0	
11744	576307	5653698	NAD27	21	B-horizon soil	1.0	21.0	162.1	36.2	1.0	
11745	576331	5653705	NAD27	21	B-horizon soil	1.0	35.4	181.9	13.4	1.0	
11746	576379	5653696	NAD27	21	B-horizon soil	1.0	63.6	70.6	31.4	1.0	
11747	576399	5653700	NAD27	21	B-horizon soil	1.0	23.7	43.3	1.0	1.0	
11748	576431	5653697	NAD27	21	B-horizon soil	1.0	16.1	35.8	13.1	1.0	
11749	576462	5653699	NAD27	21	B-horizon soil	41.6	35.7	232.5	20.3	1.0	

## Appendix 2: Sail Pond Soil Sample List

Sample Number	UTM Easting	UTM Northing	Datum	Zone	Sample Medium	pXRF Cu(ppm)	pXRF Pb(ppm)	pXRF Zn(ppm)	pXRF As(ppm)	pXRF Sb(ppm)	Check Analysis - Certificate Reference
11750	576490	5653697	NAD27	21	B-horizon soil	1.0	24.8	100.0	13.4	1.0	
11751	576513	5653705	NAD27	21	B-horizon soil	1.0	25.2	91.0	9.3	1.0	
11752	576537	5653704	NAD27	21	B-horizon soil	1.0	25.9	65.0	13.4	1.0	
11753	576560	5653698	NAD27	21	B-horizon soil	1.0	32.6	93.4	9.5	1.0	
11754	576588	5653704	NAD27	21	B-horizon soil	1.0	25.3	57.0	10.4	1.0	
11755	576610	5653702	NAD27	21	B-horizon soil	1.0	33.4	103.7	1.0	1.0	
11756	576632	5653698	NAD27	21	B-horizon soil	1.0	37.1	233.5	15.3	1.0	
11757	576665	5653695	NAD27	21	B-horizon soil	1.0	13.2	55.4	11.0	1.0	
11758	576693	5653700	NAD27	21	B-horizon soil	1.0	16.1	46.4	14.8	1.0	
11759	576718	5653698	NAD27	21	B-horizon soil	1.0	24.9	74.5	1.0	1.0	
11760	576739	5653702	NAD27	21	B-horizon soil	1.0	30.1	57.8	12.1	1.0	
11761	576764	5653700	NAD27	21	B-horizon soil	1.0	27.4	133.6	1.0	1.0	
11762	576790	5653697	NAD27	21	B-horizon soil	1.0	20.9	58.0	19.3	1.0	
11763	576813	5653697	NAD27	21	B-horizon soil	1.0	24.8	78.1	16.5	1.0	
11764	576846	5653703	NAD27	21	B-horizon soil	1.0	20.7	70.6	12.1	1.0	
11765	576934	5653699	NAD27	21	B-horizon soil	1.0	20.6	85.5	16.8	1.0	
11766	576962	5653698	NAD27	21	B-horizon soil	1.0	27.5	79.2	1.0	20.0	
11767	576990	5653702	NAD27	21	B-horizon soil	1.0	17.0	89.4	12.2	1.0	
11768	577023	5653700	NAD27	21	B-horizon soil	1.0	28.5	45.4	1.0	1.0	
11769	577066	5653690	NAD27	21	B-horizon soil	1.0	23.8	48.8	1.0	1.0	
11770	577103	5653704	NAD27	21	B-horizon soil	1.0	30.8	110.1	1.0	1.0	
11771	577128	5653705	NAD27	21	B-horizon soil	1.0	12.7	65.4	15.5	1.0	
11772	577151	5653701	NAD27	21	B-horizon soil	42.6	22.2	70.3	43.5	1.0	
11773	577177	5653700	NAD27	21	B-horizon soil	1.0	19.5	42.6	1.0	1.0	
11774	577380	5653296	NAD27	21	B-horizon soil	5.4	12.5	47.5	8.9	1.0	
11775	577346	5653298	NAD27	21	B-horizon soil	22.3	19.7	61.5	12.9	1.0	
11776	577321	5653298	NAD27	21	B-horizon soil	1.0	11.5	30.4	7.5	1.0	
11777	577295	5653301	NAD27	21	B-horizon soil	1.0	7.9	31.2	5.8	1.0	
11778	577269	5653299	NAD27	21	B-horizon soil	1.0	10.2	41.4	6.2	1.0	
11779	577238	5653300	NAD27	21	B-horizon soil	2.7	11.0	37.7	6.8	1.0	
11780	577217	5653298	NAD27	21	B-horizon soil	22.9	14.8	54.1	13.0	1.0	
11781	577188	5653300	NAD27	21	B-horizon soil	17.8	12.0	39.5	9.7	1.0	
11782	577155	5653299	NAD27	21	B-horizon soil	3.7	13.0	43.5	4.3	1.0	
11783	577130	5653296	NAD27	21	B-horizon soil	22.5	23.5	110.9	17.9	1.0	
11784	577047	5653299	NAD27	21	B-horizon soil	11.6	16.9	96.9	13.1	1.0	
11785	577019	5653305	NAD27	21	B-horizon soil	10.6	34.6	77.0	9.9	22.0	
11786	576992	5653301	NAD27	21	B-horizon soil	10.4	27.2	69.4	8.2	21.9	
11787	576960	5653302	NAD27	21	B-horizon soil	1.0	40.1	170.2	13.4	1.0	
11788	576936	5653298	NAD27	21	B-horizon soil	13.1	14.5	71.8	17.1	1.0	
11789	576906	5653298	NAD27	21	B-horizon soil	1.0	19.2	137.3	12.3	1.0	
11790	576872	5653299	NAD27	21	B-horizon soil	18.0	22.8	47.3	19.3	1.0	
11791	576725	5653100	NAD27	21	B-horizon soil	1.0	30.5	104.9	1.0	1.0	
11792	576690	5653101	NAD27	21	B-horizon soil	1.0	1.0	36.3	8.7	1.0	
11793	576668	5653098	NAD27	21	B-horizon soil	1.0	18.7	65.3	12.6	1.0	
11794	575817	5655297	NAD27	21	B-horizon soil	1.0	21.2	265.8	1.0	1.0	
11795	575795	5655300	NAD27	21	B-horizon soil	1.0	17.6	41.4	10.6	1.0	
11796	575775	5655299	NAD27	21	B-horizon soil	1.0	28.1	47.1	15.5	16.3	
11797	575748	5655300	NAD27	21	B-horizon soil	1.0	26.6	104.9	20.1	1.0	
11798	575716	5655301	NAD27	21	B-horizon soil	1.0	11.9	54.1	13.9	13.3	
11799	575690	5655300	NAD27	21	B-horizon soil	1.0	28.3	61.7	12.6	1.0	
11800	575675	5655298	NAD27	21	B-horizon soil	1.0	21.6	72.7	12.6	1.0	
11801	575036	5652297	NAD27	21	B-horizon soil	1.0	102.7	284.9	26.4	1.0	
11802	575065	5652300	NAD27	21	B-horizon soil	1.0	984.1	159.2	1.0	1.0	
11803	575096	5652301	NAD27	21	B-horizon soil	1.0	46.1	142.3	40.0	1.0	
11804	575114	5652304	NAD27	21	B-horizon soil	1.0	38.8	97.3	38.3	1.0	
11805	575136	5652307	NAD27	21	B-horizon soil	1.0	30.9	174.7	11.5	1.0	
11806	575164	5652319	NAD27	21	B-horizon soil	1.0	60.7	173.3	18.7	1.0	
11807	575190	5652297	NAD27	21	B-horizon soil	1.0	58.1	309.6	1.0	1.0	
11808	575212	5652302	NAD27	21	B-horizon soil	1.0	87.0	184.8	22.4	1.0	
11809	575239	5652301	NAD27	21	B-horizon soil	1.0	134.9	231.1	27.7	1.0	



Appendix 2: Sail Pond Soil Sample List

Sample Number	UTM Easting	UTM Northing	Datum	Zone	Sample Medium	pXRF Cu(ppm)	pXRF Pb(ppm)	pXRF Zn(ppm)	pXRF As(ppm)	pXRF Sb(ppm)	Check Analysis - Certificate Reference
11810	575264	5652296	NAD27	21	B-horizon soil	1.0	348.2	270.1	33.7	1.0	
11811	575285	5652308	NAD27	21	B-horizon soil	1.0	27.4	109.8	15.4	1.0	
11812	575314	5652313	NAD27	21	B-horizon soil	1.0	34.9	183.6	44.0	1.0	
11813	575343	5652297	NAD27	21	B-horizon soil	1.0	54.3	44.0	10.4	1.0	
11814	575364	5652302	NAD27	21	B-horizon soil	1.0	46.7	114.0	27.0	1.0	
11815	575390	5652306	NAD27	21	B-horizon soil	1.0	22.9	68.8	10.2	1.0	
11816	575422	5652303	NAD27	21	B-horizon soil	1.0	36.8	138.6	14.8	1.0	
11817	575439	5652312	NAD27	21	B-horizon soil	33.1	67.6	218.4	24.8	1.0	
11818	575465	5652313	NAD27	21	B-horizon soil	1.0	19.9	93.6	21.8	1.0	
11819	575497	5652313	NAD27	21	B-horizon soil	1.0	39.8	66.6	21.0	1.0	
11820	575523	5652293	NAD27	21	B-horizon soil	1.0	15.8	17.5	9.0	1.0	
11821	575540	5652298	NAD27	21	B-horizon soil	1.0	71.4	54.1	1.0	1.0	
11822	575566	5652300	NAD27	21	B-horizon soil	1.0	25.4	70.9	17.8	1.0	
11823	575587	5652299	NAD27	21	B-horizon soil	1.0	31.6	87.0	15.7	1.0	
11824	575617	5652296	NAD27	21	B-horizon soil	1.0	30.7	66.7	8.7	1.0	
11825	575644	5652299	NAD27	21	B-horizon soil	1.0	22.7	107.0	9.3	1.0	
11826	575664	5652307	NAD27	21	B-horizon soil	1.0	17.5	77.0	14.2	1.0	
11827	575690	5652306	NAD27	21	B-horizon soil	1.0	23.1	92.9	15.5	1.0	
11828	575716	5652303	NAD27	21	B-horizon soil	1.0	35.8	79.2	16.8	1.0	
11829	575744	5652306	NAD27	21	B-horizon soil	1.0	41.1	92.1	11.9	1.0	
11830	575770	5652308	NAD27	21	B-horizon soil	1.0	13.7	79.8	14.9	17.3	
11831	575788	5652303	NAD27	21	B-horizon soil	1.0	30.0	65.3	11.8	1.0	
11832	575812	5652304	NAD27	21	B-horizon soil	1.0	25.6	109.8	12.1	1.0	
11833	575839	5652313	NAD27	21	B-horizon soil	1.0	36.1	119.0	1.0	1.0	
11834	575867	5652306	NAD27	21	B-horizon soil	1.0	38.2	129.6	12.8	1.0	
11835	575887	5652302	NAD27	21	B-horizon soil	1.0	16.7	88.1	13.2	39.7	
11836	575916	5652300	NAD27	21	B-horizon soil	33.9	43.0	138.3	13.6	1.0	
11837	575944	5652293	NAD27	21	B-horizon soil	1.0	27.0	123.7	8.8	1.0	
11838	575972	5652300	NAD27	21	B-horizon soil	1.0	15.3	67.9	1.0	1.0	
11839	575993	5652297	NAD27	21	B-horizon soil	1.0	16.7	82.4	1.0	1.0	
11840	576013	5652295	NAD27	21	B-horizon soil	1.0	19.9	72.8	1.0	1.0	
11841	576044	5652305	NAD27	21	B-horizon soil	37.6	60.8	126.0	18.4	1.0	
11842	576070	5652310	NAD27	21	B-horizon soil	37.4	40.8	100.0	10.3	1.0	
11843	576100	5652308	NAD27	21	B-horizon soil	1.0	40.2	110.2	1.0	1.0	
11844	576121	5652306	NAD27	21	B-horizon soil	1.0	15.7	70.1	11.6	1.0	
11845	576145	5652313	NAD27	21	B-horizon soil	1.0	28.7	83.2	17.8	1.0	
11846	576200	5652299	NAD27	21	B-horizon soil	1.0	55.2	168.1	12.9	1.0	
11847	576184	5652500	NAD27	21	B-horizon soil	1.0	58.5	152.0	21.5	1.0	
11848	576162	5652487	NAD27	21	B-horizon soil	42.4	26.8	105.8	14.2	1.0	EA 378-1715628
11849	576135	5652499	NAD27	21	B-horizon soil	1.0	10.4	91.7	12.8	1.0	EA 378-1715628
11850	576111	5652496	NAD27	21	B-horizon soil	36.9	15.3	77.0	1.0	1.0	EA 378-1715628
11851	576079	5652479	NAD27	21	B-horizon soil	36.8	18.4	156.2	10.1	1.0	EA 378-1715628
11852	576058	5652505	NAD27	21	B-horizon soil	30.7	17.6	82.8	21.7	1.0	EA 378-1715628
11853	576032	5652472	NAD27	21	B-horizon soil	1.0	25.4	100.7	8.8	1.0	EA 378-1715628
11854	576002	5652497	NAD27	21	B-horizon soil	1.0	27.2	92.3	13.2	1.0	EA 378-1715628
11855	575978	5652503	NAD27	21	B-horizon soil	24.1	20.6	64.2	7.4	1.0	EA 378-1715628
11856	575949	5652505	NAD27	21	B-horizon soil	29.6	28.8	92.8	9.5	1.0	EA 378-1715628
11857	575928	5652504	NAD27	21	B-horizon soil	1.0	25.8	86.7	12.6	1.0	EA 378-1715628
11858	575913	5652510	NAD27	21	B-horizon soil	1.0	27.1	97.6	10.3	1.0	EA 378-1715628
11859	575873	5652521	NAD27	21	B-horizon soil	1.0	20.7	208.3	13.2	1.0	EA 378-1715628
11860	575856	5652514	NAD27	21	B-horizon soil	1.0	38.3	146.2	11.8	1.0	EA 378-1715628
11861	575832	5652495	NAD27	21	B-horizon soil	1.0	31.0	87.0	1.0	1.0	EA 378-1715628
11862	575802	5652493	NAD27	21	B-horizon soil	1.0	12.4	36.6	7.4	1.0	EA 378-1715628
11863	575783	5652496	NAD27	21	B-horizon soil	1.0	23.1	63.2	30.1	1.0	EA 378-1715628
11864	575760	5652499	NAD27	21	B-horizon soil	1.0	32.4	118.0	16.8	1.0	EA 378-1715628
11865	575371	5652498	NAD27	21	B-horizon soil	45.0	36.1	152.9	36.4	1.0	EA 378-1715628
11866	575712	5652499	NAD27	21	B-horizon soil	1.0	22.0	195.0	10.8	1.0	EA 378-1715628
11867	575682	5652492	NAD27	21	B-horizon soil	1.0	35.1	99.2	14.0	1.0	EA 378-1715628
11868	575659	5652498	NAD27	21	B-horizon soil	1.0	26.1	119.0	1.0	1.0	EA 378-1715628
11869	575610	5652480	NAD27	21	B-horizon soil	1.0	11.3	33.7	10.9	26.3	EA 378-1715628

## Appendix 2: Sail Pond Soil Sample List

Sample Number	UTM Easting	UTM Northing	Datum	Zone	Sample Medium	pXRF Cu(ppm)	pXRF Pb(ppm)	pXRF Zn(ppm)	pXRF As(ppm)	pXRF Sb(ppm)	Check Analysis - Certificate Reference
11870	575567	5652493	NAD27	21	B-horizon soil	1.0	18.3	32.8	1.0	1.0	EA 378-1715628
11871	575531	5652497	NAD27	21	B-horizon soil	1.0	43.7	76.3	15.3	1.0	EA 378-1715628
11872	575507	5652499	NAD27	21	B-horizon soil	1.0	56.0	155.4	10.8	1.0	EA 378-1715628
11873	575478	5652499	NAD27	21	B-horizon soil	1.0	30.9	136.9	1.0	1.0	EA 378-1715628
11874	575452	5652506	NAD27	21	B-horizon soil	32.3	14.7	37.8	11.2	1.0	EA 378-1715628
11875	575432	5652509	NAD27	21	B-horizon soil	1.0	30.8	131.9	24.8	1.0	EA 378-1715628
11876	575407	5652511	NAD27	21	B-horizon soil	1.0	63.6	130.8	1.0	1.0	
11877	575566	5652696	NAD27	21	B-horizon soil	1.0	33.7	166.9	27.5	21.1	
11878	575588	5652700	NAD27	21	B-horizon soil	1.0	22.4	36.8	10.7	1.0	
11879	575617	5652708	NAD27	21	B-horizon soil	1.0	48.0	142.8	14.1	1.0	
11880	575536	5652713	NAD27	21	B-horizon soil	1.0	16.5	44.1	11.4	23.3	
11881	575674	5652715	NAD27	21	B-horizon soil	1.0	9.1	18.0	8.8	15.2	
11882	575751	5652705	NAD27	21	B-horizon soil	1.0	35.0	117.5	18.2	1.0	
11883	575777	5652712	NAD27	21	B-horizon soil	1.0	1.0	41.2	1.0	51.9	
11884	575838	5652697	NAD27	21	B-horizon soil	1.0	35.4	63.0	25.1	1.0	
11885	575865	5652692	NAD27	21	B-horizon soil	1.0	24.6	86.3	16.2	1.0	
11886	575894	5652707	NAD27	21	B-horizon soil	1.0	16.3	48.6	19.1	1.0	
11887	575914	5652718	NAD27	21	B-horizon soil	1.0	47.3	134.1	1.0	1.0	
11888	575939	5652700	NAD27	21	B-horizon soil	1.0	21.5	54.4	8.6	1.0	
11889	575465	5652696	NAD27	21	B-horizon soil	1.0	26.6	50.1	10.2	1.0	
11890	575989	5652694	NAD27	21	B-horizon soil	1.0	24.6	62.4	14.4	1.0	
11891	576019	5652696	NAD27	21	B-horizon soil	1.0	17.6	66.0	8.9	1.0	
11892	576045	5652695	NAD27	21	B-horizon soil	1.0	15.6	55.0	10.4	38.0	
11893	576161	5652678	NAD27	21	B-horizon soil	1.0	26.6	56.9	15.2	1.0	
11894	575678	5653098	NAD27	21	B-horizon soil	1.0	52.8	155.1	18.6	1.0	
11895	575661	5653098	NAD27	21	B-horizon soil	1.0	50.0	78.0	17.4	1.0	
11896	575635	5653092	NAD27	21	B-horizon soil	1.0	56.0	104.3	19.6	1.0	
11897	575608	5653093	NAD27	21	B-horizon soil	1.0	33.0	64.1	15.1	1.0	
11898	575585	5653098	NAD27	21	B-horizon soil	1.0	8.9	59.2	22.9	1.0	
11899	575542	5653099	NAD27	21	B-horizon soil	1.0	92.0	220.3	43.9	1.0	
11900	575511	5653096	NAD27	21	B-horizon soil	34.2	68.4	373.7	44.7	1.0	
11901	575485	5653090	NAD27	21	B-horizon soil	45.0	205.0	327.2	58.0	1.0	
11902	575456	5653095	NAD27	21	B-horizon soil	1.0	245.8	489.5	116.4	1.0	
11903	575433	5653096	NAD27	21	B-horizon soil	447.4	1078.2	2711.9	282.7	37.1	
11904	575411	5653097	NAD27	21	B-horizon soil	159.8	2354.1	1201.3	333.3	11.3	
11905	575383	5653093	NAD27	21	B-horizon soil	56.9	395.2	404.6	83.8	1.0	
11906	575359	5653092	NAD27	21	B-horizon soil	121.5	913.9	712.5	215.3	28.2	
11907	575329	5653105	NAD27	21	B-horizon soil	1.0	328.4	532.3	47.7	1.0	
11908	575306	5653100	NAD27	21	B-horizon soil	676.3	432.7	1616.4	71.9	14.3	
11909	575278	5653089	NAD27	21	B-horizon soil	1.0	10.3	150.7	25.3	1.0	
11910	575250	5653104	NAD27	21	B-horizon soil	1.0	21.0	148.0	13.2	1.0	
11911	575232	5653101	NAD27	21	B-horizon soil	37.6	31.3	124.5	15.5	1.0	
11912	575210	5653104	NAD27	21	B-horizon soil	1.0	23.2	97.3	16.1	1.0	
11913	575184	5653107	NAD27	21	B-horizon soil	37.4	28.2	117.3	21.0	1.0	
11914	575160	5653095	NAD27	21	B-horizon soil	1.0	20.9	151.6	15.0	1.0	
11915	575045	5653098	NAD27	21	B-horizon soil	1.0	28.0	85.2	1.0	1.0	
11916	575027	5653091	NAD27	21	B-horizon soil	1.0	24.6	157.6	1.0	1.0	
11917	575005	5653098	NAD27	21	B-horizon soil	1.0	21.2	109.5	1.0	1.0	
11918	574935	5653096	NAD27	21	B-horizon soil	121.0	36.6	129.2	18.4	1.0	
11919	574884	5653100	NAD27	21	B-horizon soil	1.0	29.8	79.4	1.0	1.0	
11920	574851	5653096	NAD27	21	B-horizon soil	1.0	15.1	28.7	1.0	1.0	
11921	574825	5653099	NAD27	21	B-horizon soil	1.0	11.4	57.7	11.3	1.0	
11922	574655	5653109	NAD27	21	B-horizon soil	1.0	22.0	89.6	10.2	1.0	
11923	574625	5653104	NAD27	21	B-horizon soil	35.1	24.1	93.2	14.1	1.0	
11924	574598	5653103	NAD27	21	B-horizon soil	1.0	16.0	84.9	1.0	1.0	
11925	574572	5653103	NAD27	21	B-horizon soil	60.1	26.4	221.7	16.6	1.0	
11926	574542	5653107	NAD27	21	B-horizon soil	1.0	13.8	41.1	1.0	1.0	
11927	574497	5653096	NAD27	21	B-horizon soil	1.0	18.7	88.8	1.0	1.0	
11928	574443	5653100	NAD27	21	B-horizon soil	1.0	16.4	98.9	9.4	14.2	
11929	574345	5653093	NAD27	21	B-horizon soil	1.0	26.4	42.4	1.0	1.0	

## Appendix 2: Sail Pond Soil Sample List

Sample Number	UTM Easting	UTM Northing	Datum	Zone	Sample Medium	pXRF Cu(ppm)	pXRF Pb(ppm)	pXRF Zn(ppm)	pXRF As(ppm)	pXRF Sb(ppm)	Check Analysis - Certificate Reference
11930	574323	5653089	NAD27	21	B-horizon soil	1.0	11.1	59.4	14.2	1.0	
11931	574297	5653088	NAD27	21	B-horizon soil	1.0	24.7	104.8	16.1	1.0	
11932	574275	5653084	NAD27	21	B-horizon soil	1.0	22.9	63.9	10.9	12.2	
11933	574246	5653093	NAD27	21	B-horizon soil	1.0	1.0	35.9	15.6	1.0	
11934	574152	5653107	NAD27	21	B-horizon soil	1.0	1.0	40.5	8.3	1.0	
11935	574122	5653110	NAD27	21	B-horizon soil	1.0	11.5	43.1	1.0	1.0	
11936	574086	5653107	NAD27	21	B-horizon soil	1.0	18.0	52.1	9.6	1.0	
11937	574044	5653106	NAD27	21	B-horizon soil	1.0	13.0	32.4	9.6	1.0	
11938	574015	5653105	NAD27	21	B-horizon soil	1.0	20.8	49.0	1.0	1.0	
11939	573997	5653096	NAD27	21	B-horizon soil	1.0	16.6	32.2	1.0	1.0	
11940	573943	5653101	NAD27	21	B-horizon soil	1.0	16.2	65.7	1.0	1.0	
11941	573930	5653101	NAD27	21	B-horizon soil	1.0	15.1	46.2	12.1	1.0	
11942	573894	5653089	NAD27	21	B-horizon soil	1.0	15.9	45.8	9.3	1.0	
11943	573810	5653109	NAD27	21	B-horizon soil	1.0	22.7	88.3	12.3	1.0	
11944	573623	5652702	NAD27	21	B-horizon soil	1.0	17.4	62.1	13.2	1.0	
11945	573651	5652708	NAD27	21	B-horizon soil	1.0	14.5	43.2	8.8	1.0	
11946	573675	5652707	NAD27	21	B-horizon soil	1.0	14.4	39.6	9.0	1.0	
11947	573706	5652707	NAD27	21	B-horizon soil	30.0	16.0	94.3	11.4	1.0	
11948	573727	5652702	NAD27	21	B-horizon soil	1.0	28.5	80.1	9.9	1.0	
11949	573755	5652709	NAD27	21	B-horizon soil	1.0	14.4	49.6	9.2	1.0	
11950	573777	5652703	NAD27	21	B-horizon soil	34.8	22.2	71.0	12.9	1.0	
11951	573799	5652703	NAD27	21	B-horizon soil	1.0	12.1	44.2	13.4	1.0	
11952	573827	5652708	NAD27	21	B-horizon soil	1.0	25.1	57.7	12.2	1.0	
11953	573849	5652709	NAD27	21	B-horizon soil	1.0	16.7	114.2	12.9	1.0	
11954	573843	5652715	NAD27	21	B-horizon soil	1.0	28.9	60.4	1.0	1.0	
11955	573901	5652700	NAD27	21	B-horizon soil	1.0	22.6	58.9	10.8	1.0	
11956	573924	5652691	NAD27	21	B-horizon soil	1.0	30.9	115.6	1.0	1.0	
11957	573950	5652691	NAD27	21	B-horizon soil	59.7	23.4	77.0	34.9	1.0	
11958	573986	5652692	NAD27	21	B-horizon soil	1.0	20.5	46.6	13.3	1.0	
11959	574027	5652709	NAD27	21	B-horizon soil	1.0	26.0	49.1	1.0	1.0	
11960	574053	5652707	NAD27	21	B-horizon soil	1.0	23.6	44.1	1.0	1.0	
11961	574079	5652711	NAD27	21	B-horizon soil	1.0	20.4	61.2	1.0	1.0	
11962	574110	5652702	NAD27	21	B-horizon soil	1.0	25.0	78.4	9.6	1.0	
11963	574125	5652707	NAD27	21	B-horizon soil	1.0	14.1	52.0	10.5	1.0	
11964	574162	5652699	NAD27	21	B-horizon soil	1.0	19.1	73.0	10.7	1.0	
11965	574178	5652699	NAD27	21	B-horizon soil	1.0	18.8	67.4	1.0	1.0	
11966	574208	5652703	NAD27	21	B-horizon soil	1.0	23.9	44.2	1.0	1.0	
11967	574235	5652697	NAD27	21	B-horizon soil	1.0	21.8	67.8	15.2	1.0	
11968	574318	5652698	NAD27	21	B-horizon soil	35.9	16.6	70.5	9.7	1.0	
11969	574434	5652905	NAD27	21	B-horizon soil	23.6	13.7	100.7	9.2	1.0	
11970	574416	5652907	NAD27	21	B-horizon soil	12.5	5.7	51.2	7.8	1.0	EA 378-1715628
11971	574388	5652903	NAD27	21	B-horizon soil	11.7	14.0	76.5	9.7	1.0	EA 378-1715628
11972	574360	5652897	NAD27	21	B-horizon soil	1.0	13.3	39.5	9.8	1.0	EA 378-1715628
11973	574335	5652903	NAD27	21	B-horizon soil	6.3	19.2	58.8	4.2	1.0	EA 378-1715628
11974	574312	5652898	NAD27	21	B-horizon soil	22.8	12.7	66.8	8.1	1.0	EA 378-1715628
11975	574286	5652912	NAD27	21	B-horizon soil	1.0	15.7	71.9	4.1	1.0	EA 378-1715628
11976	574262	5652909	NAD27	21	B-horizon soil	22.8	11.3	48.9	12.5	1.0	EA 378-1715628
11977	574236	5652899	NAD27	21	B-horizon soil	31.8	14.1	46.2	6.8	1.0	EA 378-1715628
11978	574210	5652896	NAD27	21	B-horizon soil	23.8	18.5	259.0	10.6	1.0	EA 378-1715628
11979	574190	5652894	NAD27	21	B-horizon soil	23.0	13.7	50.6	10.8	1.0	EA 378-1715628
11980	574162	5652895	NAD27	21	B-horizon soil	172.4	36.4	117.8	22.8	1.0	EA 378-1715628
11981	574142	5652896	NAD27	21	B-horizon soil	26.3	23.8	65.5	9.2	1.0	EA 378-1715628
11982	574117	5652882	NAD27	21	B-horizon soil	22.1	10.5	133.5	15.5	1.0	EA 378-1715628
11983	574081	5652867	NAD27	21	B-horizon soil	17.6	23.3	115.1	16.1	1.0	EA 378-1715628
11984	574061	5652862	NAD27	21	B-horizon soil	35.7	13.3	50.4	10.9	1.0	EA 378-1715628
11985	574037	5652893	NAD27	21	B-horizon soil	11.4	13.2	103.9	9.6	1.0	EA 378-1715628
11986	574008	5652894	NAD27	21	B-horizon soil	44.7	25.2	65.2	11.5	1.0	EA 378-1715628
11987	573978	5652905	NAD27	21	B-horizon soil	27.9	13.0	181.1	16.5	1.0	EA 378-1715628
11988	573954	5652905	NAD27	21	B-horizon soil	18.3	30.3	81.3	12.2	1.0	EA 378-1715628
11989	573929	5652895	NAD27	21	B-horizon soil	23.4	18.2	72.2	15.3	1.0	EA 378-1715628

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Sample Number	UTM Easting	UTM Northing	Datum	Zone	Sample Medium	pXRF Cu(ppm)	pXRF Pb(ppm)	pXRF Zn(ppm)	pXRF As(ppm)	pXRF Sb(ppm)	Check Analysis - Certificate Reference
11990	573913	5652893	NAD27	21	B-horizon soil	29.1	20.8	88.4	1.9	1.0	EA 378-1715628
11991	573888	5652894	NAD27	21	B-horizon soil	26.6	18.4	145.2	13.3	1.0	EA 378-1715628
11992	573861	5652898	NAD27	21	B-horizon soil	21.1	19.0	119.6	5.9	12.4	EA 378-1715628
11993	573836	5652901	NAD27	21	B-horizon soil	30.8	23.7	98.6	8.9	1.0	EA 378-1715628
11994	573812	5652903	NAD27	21	B-horizon soil	12.1	14.5	40.8	7.5	1.0	EA 378-1715628
11995	573791	5652892	NAD27	21	B-horizon soil	15.1	16.7	42.5	19.2	1.0	EA 378-1715628
11996	573763	5652887	NAD27	21	B-horizon soil	42.8	21.6	134.8	9.6	1.0	EA 378-1715628
11997	573735	5652888	NAD27	21	B-horizon soil	43.2	37.5	128.9	10.8	1.0	EA 378-1715628
11998	573713	5652894	NAD27	21	B-horizon soil	56.1	33.0	108.9	17.6	1.0	EA 378-1715628
11999	573684	5652893	NAD27	21	B-horizon soil	18.6	19.2	50.2	11.9	1.0	EA 378-1715628
12000	573661	5652904	NAD27	21	B-horizon soil	1.0	12.3	67.1	8.7	1.0	EA 378-1715628
12001	579254	5660500	NAD27	21	B-horizon soil	1.0	17.4	81.0	12.8	1.0	
12002	579273	5660493	NAD27	21	B-horizon soil	1.0	24.6	129.3	36.3	1.0	
12003	579196	5660496	NAD27	21	B-horizon soil	1.0	38.0	105.1	23.7	1.0	
12004	579166	5660500	NAD27	21	B-horizon soil	1.0	51.7	80.4	18.5	1.0	
12005	579136	5660493	NAD27	21	B-horizon soil	1.0	30.1	71.0	29.2	1.0	
12006	579102	5660496	NAD27	21	B-horizon soil	1.0	41.2	88.8	18.8	1.0	
12007	579077	5660497	NAD27	21	B-horizon soil	46.9	45.3	114.5	30.6	1.0	
12008	579001	5660503	NAD27	21	B-horizon soil	30.0	27.6	45.8	13.3	1.0	
12009	578975	5660496	NAD27	21	B-horizon soil	1.0	23.2	41.2	1.0	1.0	
12010	578952	5660496	NAD27	21	B-horizon soil	1.0	20.6	61.1	13.9	1.0	
12011	578927	5660497	NAD27	21	B-horizon soil	1.0	18.4	113.4	21.0	1.0	
12012	578904	5660498	NAD27	21	B-horizon soil	1.0	13.8	69.1	1.0	1.0	
12013	578877	5660497	NAD27	21	B-horizon soil	1.0	11.0	42.3	10.3	1.0	
12014	578851	5660495	NAD27	21	B-horizon soil	35.3	27.0	108.1	19.8	1.0	
12015	578827	5660500	NAD27	21	B-horizon soil	1.0	46.1	101.5	34.0	1.0	
12016	578801	5660503	NAD27	21	B-horizon soil	34.2	23.4	53.7	25.5	1.0	
12017	578897	5660700	NAD27	21	B-horizon soil	1.0	25.6	34.6	22.0	1.0	
12018	578922	5660698	NAD27	21	B-horizon soil	1.0	28.7	60.8	18.9	1.0	
12019	578947	5660700	NAD27	21	B-horizon soil	1.0	36.5	121.2	13.9	1.0	
12020	578976	5660700	NAD27	21	B-horizon soil	1.0	23.4	70.4	23.2	1.0	
12021	579002	5660699	NAD27	21	B-horizon soil	1.0	29.3	236.9	33.2	1.0	
12022	579027	5660700	NAD27	21	B-horizon soil	1.0	36.3	87.0	15.5	1.0	
12023	579057	5660697	NAD27	21	B-horizon soil	1.0	32.2	167.6	30.7	1.0	
12024	579080	5660702	NAD27	21	B-horizon soil	1.0	27.3	71.0	12.8	1.0	
12025	579198	5660695	NAD27	21	B-horizon soil	1.0	33.8	82.5	9.5	1.0	
12026	579231	5660697	NAD27	21	B-horizon soil	1.0	24.9	52.0	15.8	1.0	
12027	579261	5660697	NAD27	21	B-horizon soil	1.0	29.9	70.7	1.0	32.3	
12028	579284	5660700	NAD27	21	B-horizon soil	1.0	18.5	67.6	10.5	32.7	
12029	579311	5660698	NAD27	21	B-horizon soil	1.0	33.5	97.6	21.1	1.0	
12030	579373	5660698	NAD27	21	B-horizon soil	45.0	44.4	118.8	27.3	1.0	
12032	579404	5660698	NAD27	21	B-horizon soil	1.0	22.1	126.1	13.5	1.0	
12033	579501	5660895	NAD27	21	B-horizon soil	1.0	29.0	84.6	31.3	1.0	
12034	579472	5660902	NAD27	21	B-horizon soil	1.0	16.8	42.5	16.6	1.0	
12035	579449	5660897	NAD27	21	B-horizon soil	1.0	18.9	55.3	13.4	1.0	
12036	579391	5660896	NAD27	21	B-horizon soil	1.0	22.4	117.2	12.3	1.0	
12037	579358	5660896	NAD27	21	B-horizon soil	1.0	16.5	65.3	22.6	1.0	
12038	579327	5660902	NAD27	21	B-horizon soil	1.0	28.4	82.6	10.5	1.0	
12039	579300	5660896	NAD27	21	B-horizon soil	1.0	36.2	226.4	14.8	1.0	
12040	579273	5660897	NAD27	21	B-horizon soil	1.0	25.3	108.7	9.3	1.0	
12041	579246	5660904	NAD27	21	B-horizon soil	1.0	17.8	50.4	11.3	1.0	
12042	579219	5660896	NAD27	21	B-horizon soil	1.0	28.9	64.8	1.0	24.3	
12043	579193	5660900	NAD27	21	B-horizon soil	78.7	37.5	66.6	45.2	12.5	
12044	579164	5660899	NAD27	21	B-horizon soil	1.0	19.4	57.2	1.0	22.1	
12046	579138	5660896	NAD27	21	B-horizon soil	1.0	14.8	33.1	10.1	1.0	
12047	579111	5660902	NAD27	21	B-horizon soil	1.0	23.2	146.5	15.4	1.0	
12048	579079	5660896	NAD27	21	B-horizon soil	1.0	24.0	193.4	20.8	1.0	
12050	579047	5660908	NAD27	21	B-horizon soil	1.0	16.8	58.7	1.0	1.0	
12051	579022	5660900	NAD27	21	B-horizon soil	1.0	23.1	56.2	10.8	19.2	
12052	578995	5660900	NAD27	21	B-horizon soil	1.0	23.4	75.6	16.3	1.0	

## Appendix 2: Sail Pond Soil Sample List

Sample Number	UTM Easting	UTM Northing	Datum	Zone	Sample Medium	pXRF Cu(ppm)	pXRF Pb(ppm)	pXRF Zn(ppm)	pXRF As(ppm)	pXRF Sb(ppm)	Check Analysis - Certificate Reference
12053	578920	5660906	NAD27	21	B-horizon soil	1.0	27.9	256.7	22.2	1.0	
12054	580560	5661099	NAD27	21	B-horizon soil	1.0	57.3	76.0	1.0	1.0	
12055	580530	5661104	NAD27	21	B-horizon soil	1.0	18.2	101.3	1.0	1.0	
12056	580501	5661105	NAD27	21	B-horizon soil	1.0	21.6	79.9	12.4	1.0	
12057	580474	5661108	NAD27	21	B-horizon soil	1.0	22.8	69.6	1.0	1.0	
12058	580451	5661098	NAD27	21	B-horizon soil	1.0	19.9	68.4	1.0	1.0	
12059	580430	5661095	NAD27	21	B-horizon soil	1.0	30.8	50.9	1.0	1.0	
12060	580406	5661100	NAD27	21	B-horizon soil	1.0	21.6	74.4	19.2	1.0	
12061	580380	5661098	NAD27	21	B-horizon soil	1.0	23.8	68.7	15.0	1.0	
12062	580353	5661094	NAD27	21	B-horizon soil	1.0	22.3	71.1	13.4	1.0	
12063	580331	5661103	NAD27	21	B-horizon soil	1.0	16.8	70.6	14.6	1.0	
12064	580304	5661103	NAD27	21	B-horizon soil	1.0	37.4	91.8	18.8	1.0	
12065	580279	5661102	NAD27	21	B-horizon soil	1.0	9.2	30.5	20.0	1.0	
12066	580252	5661099	NAD27	21	B-horizon soil	1.0	17.2	91.0	10.1	1.0	
12067	580229	5661098	NAD27	21	B-horizon soil	1.0	16.1	54.7	9.5	15.6	
12068	580203	5661097	NAD27	21	B-horizon soil	1.0	27.9	81.3	22.9	1.0	
12069	580178	5661102	NAD27	21	B-horizon soil	1.0	27.2	64.1	13.3	13.1	
12070	580124	5661101	NAD27	21	B-horizon soil	1.0	15.5	81.6	13.3	1.0	
12071	580100	5661100	NAD27	21	B-horizon soil	1.0	20.3	55.8	1.0	1.0	
12072	580058	5661097	NAD27	21	B-horizon soil	1.0	14.0	43.7	11.0	29.6	
12073	580013	5661096	NAD27	21	B-horizon soil	1.0	26.4	62.1	11.4	1.0	
12074	579977	5661105	NAD27	21	B-horizon soil	1.0	16.2	58.1	17.9	1.0	
12075	579946	5661099	NAD27	21	B-horizon soil	1.0	16.9	29.2	1.0	1.0	
12076	579924	5661101	NAD27	21	B-horizon soil	33.1	32.1	125.4	18.3	1.0	
12077	579881	5661096	NAD27	21	B-horizon soil	1.0	16.6	121.4	8.1	1.0	
12078	579854	5661102	NAD27	21	B-horizon soil	1.0	19.5	69.7	11.1	1.0	
12079	579825	5661104	NAD27	21	B-horizon soil	1.0	15.4	75.5	16.3	1.0	
12080	579742	5661095	NAD27	21	B-horizon soil	1.0	18.1	71.7	17.3	14.3	
12081	579722	5661093	NAD27	21	B-horizon soil	1.0	14.1	75.4	11.1	1.0	
12082	579696	5661095	NAD27	21	B-horizon soil	1.0	41.6	119.7	31.4	1.0	
12083	579672	5661100	NAD27	21	B-horizon soil	1.0	45.3	134.0	22.1	1.0	
12084	579649	5661102	NAD27	21	B-horizon soil	1.0	35.6	132.4	11.4	1.0	
12085	579628	5661105	NAD27	21	B-horizon soil	1.0	23.7	106.4	15.0	11.7	
12086	579602	5661105	NAD27	21	B-horizon soil	1.0	21.4	54.0	1.0	14.9	
12087	579575	5661107	NAD27	21	B-horizon soil	1.0	36.6	87.9	21.1	1.0	
12088	579374	5661083	NAD27	21	B-horizon soil	1.0	20.5	76.3	1.0	1.0	
12089	579349	5661102	NAD27	21	B-horizon soil	1.0	28.9	86.7	15.2	12.8	
12090	579327	5661097	NAD27	21	B-horizon soil	1.0	51.0	123.9	23.1	1.0	
12091	579296	5661109	NAD27	21	B-horizon soil	1.0	52.9	59.1	29.9	1.0	
12092	579259	5661100	NAD27	21	B-horizon soil	1.0	19.6	67.0	13.9	1.0	
12093	579203	5661096	NAD27	21	B-horizon soil	1.0	18.7	67.9	12.4	1.0	
12094	579167	5661101	NAD27	21	B-horizon soil	1.0	19.3	77.7	11.3	15.5	
12095	579137	5661101	NAD27	21	B-horizon soil	1.0	19.1	72.3	17.4	1.0	
12096	579113	5661099	NAD27	21	B-horizon soil	1.0	19.4	118.1	16.9	1.0	
12097	579067	5661109	NAD27	21	B-horizon soil	1.0	21.1	40.2	1.0	1.0	
12098	579046	5661102	NAD27	21	B-horizon soil	32.9	24.7	173.9	25.9	1.0	
12099	579018	5661091	NAD27	21	B-horizon soil	1.0	18.7	96.4	10.2	1.0	
12100	578996	5661100	NAD27	21	B-horizon soil	1.0	16.7	74.9	21.9	1.0	
12101	578969	5661109	NAD27	21	B-horizon soil	1.0	40.6	111.9	22.1	1.0	
12102	578945	5661111	NAD27	21	B-horizon soil	1.0	26.6	69.3	14.3	1.0	
12103	578862	5661093	NAD27	21	B-horizon soil	1.0	32.5	50.8	12.7	1.0	
12104	578846	5661110	NAD27	21	B-horizon soil	1.0	26.3	51.5	14.1	1.0	
12105	578813	5661110	NAD27	21	B-horizon soil	1.0	36.6	105.2	1.0	1.0	
12106	578772	5661114	NAD27	21	B-horizon soil	1.0	15.6	50.3	24.8	1.0	
12107	578725	5661106	NAD27	21	B-horizon soil	1.0	47.8	166.5	15.1	1.0	
12108	578697	5661105	NAD27	21	B-horizon soil	1.0	42.7	201.0	20.1	1.0	
12109	578673	5661101	NAD27	21	B-horizon soil	1.0	68.0	275.3	14.5	1.0	
12110	578648	5661107	NAD27	21	B-horizon soil	1.0	33.1	90.1	14.7	1.0	
12111	578617	5661106	NAD27	21	B-horizon soil	1.0	32.4	96.2	27.1	11.5	
12112	578596	5661108	NAD27	21	B-horizon soil	29.9	18.3	51.3	16.1	1.0	

Appendix 2: Sail Pond Soil Sample List

Sample Number	UTM Easting	UTM Northing	Datum	Zone	Sample Medium	pXRF Cu(ppm)	pXRF Pb(ppm)	pXRF Zn(ppm)	pXRF As(ppm)	pXRF Sb(ppm)	Check Analysis - Certificate Reference
12113	578575	5661102	NAD27	21	B-horizon soil	1.0	13.7	47.4	12.3	1.0	
12114	578553	5661104	NAD27	21	B-horizon soil	1.0	14.5	110.4	18.4	1.0	
12115	578523	5661103	NAD27	21	B-horizon soil	1.0	19.5	60.0	12.3	16.8	
12116	578501	5661102	NAD27	21	B-horizon soil	1.0	27.9	98.5	1.0	1.0	
12117	580454	5660700	NAD27	21	B-horizon soil	1.0	15.0	42.0	1.0	1.0	
12118	580317	5660705	NAD27	21	B-horizon soil	1.0	15.0	35.3	10.9	1.0	
12119	580289	5660698	NAD27	21	B-horizon soil	1.0	23.1	45.1	10.9	1.0	
12120	580258	5660700	NAD27	21	B-horizon soil	1.0	11.8	48.1	10.6	1.0	
12121	580231	5660700	NAD27	21	B-horizon soil	1.0	14.2	47.9	13.1	1.0	
12122	580204	5660698	NAD27	21	B-horizon soil	1.0	26.8	70.6	19.2	1.0	
12123	580135	5660699	NAD27	21	B-horizon soil	1.0	16.6	45.1	13.4	1.0	
12124	580088	5660695	NAD27	21	B-horizon soil	1.0	29.4	73.0	1.0	1.0	
12125	580061	5660694	NAD27	21	B-horizon soil	1.0	24.1	77.3	1.0	1.0	
12126	580035	5660702	NAD27	21	B-horizon soil	1.0	16.0	31.4	1.0	1.0	
12127	580004	5660696	NAD27	21	B-horizon soil	1.0	54.0	162.7	13.9	1.0	
12128	579976	5660700	NAD27	21	B-horizon soil	1.0	30.3	109.3	10.7	1.0	
12129	579945	5660700	NAD27	21	B-horizon soil	1.0	24.5	77.7	10.1	1.0	
12130	579918	5660700	NAD27	21	B-horizon soil	1.0	1.0	20.4	10.5	1.0	
12131	580020	5660902	NAD27	21	B-horizon soil	27.7	20.6	59.5	14.8	29.1	
12132	580051	5660903	NAD27	21	B-horizon soil	1.0	17.3	33.4	9.7	16.2	
12133	580076	5660906	NAD27	21	B-horizon soil	1.0	18.3	40.0	11.5	1.0	
12134	580108	5660900	NAD27	21	B-horizon soil	1.0	24.5	99.0	9.3	1.0	
12135	580143	5660898	NAD27	21	B-horizon soil	1.0	9.7	40.9	13.2	1.0	
12136	580167	5660898	NAD27	21	B-horizon soil	1.0	18.2	147.6	19.7	1.0	
12137	580199	5660898	NAD27	21	B-horizon soil	1.0	26.7	96.9	21.8	1.0	
12138	580233	5660895	NAD27	21	B-horizon soil	1.0	23.1	47.7	17.3	1.0	
12139	580299	5660899	NAD27	21	B-horizon soil	1.0	17.8	28.9	12.3	1.0	
12140	580334	5660903	NAD27	21	B-horizon soil	1.0	14.2	33.0	1.0	1.0	
12141	580368	5660900	NAD27	21	B-horizon soil	1.0	18.1	47.6	8.8	1.0	
12142	580397	5660903	NAD27	21	B-horizon soil	1.0	9.9	30.8	9.0	1.0	
12143	580350	5660504	NAD27	21	B-horizon soil	1.0	25.2	138.0	11.7	1.0	
12144	580327	5660499	NAD27	21	B-horizon soil	32.8	31.5	59.0	21.2	1.0	
12145	580245	5660502	NAD27	21	B-horizon soil	28.1	10.0	26.2	8.4	1.0	
12146	580216	5660503	NAD27	21	B-horizon soil	1.0	18.4	66.9	8.6	1.0	
12147	580177	5660501	NAD27	21	B-horizon soil	1.0	9.6	14.4	1.0	1.0	
12148	580154	5660499	NAD27	21	B-horizon soil	1.0	30.6	52.7	18.4	1.0	
12149	580121	5660500	NAD27	21	B-horizon soil	1.0	23.6	63.2	20.3	1.0	
12150	580066	5660499	NAD27	21	B-horizon soil	32.3	20.9	65.5	18.7	1.0	
12151	580039	5660502	NAD27	21	B-horizon soil	1.0	28.7	63.9	20.1	1.0	
12152	580008	5660499	NAD27	21	B-horizon soil	1.0	19.7	69.3	21.3	22.9	
12153	579980	5660303	NAD27	21	B-horizon soil	1.0	52.8	52.7	33.7	1.0	
12154	579999	5660300	NAD27	21	B-horizon soil	1.0	17.7	56.4	38.5	1.0	
12155	580028	5660303	NAD27	21	B-horizon soil	28.1	27.1	75.6	18.5	1.0	
12156	580060	5660301	NAD27	21	B-horizon soil	1.0	34.0	160.4	1.0	1.0	
12157	580102	5660298	NAD27	21	B-horizon soil	42.1	48.4	93.3	18.9	1.0	
12158	580132	5660306	NAD27	21	B-horizon soil	1.0	14.1	44.5	9.0	1.0	
12159	580239	5660303	NAD27	21	B-horizon soil	1.0	17.0	46.9	8.0	30.0	
12160	580069	5659901	NAD27	21	B-horizon soil	1.0	35.3	135.7	1.0	1.0	
12161	580041	5659902	NAD27	21	B-horizon soil	1.0	12.7	29.4	1.0	1.0	
12162	580004	5659901	NAD27	21	B-horizon soil	1.0	25.3	62.4	20.5	1.0	
12163	579973	5659904	NAD27	21	B-horizon soil	1.0	1.0	31.1	1.0	13.4	
12164	579939	5659900	NAD27	21	B-horizon soil	1.0	29.4	99.3	10.3	1.0	
12165	579905	5659898	NAD27	21	B-horizon soil	1.0	54.5	67.2	97.7	25.3	
12166	579866	5659906	NAD27	21	B-horizon soil	1.0	28.2	61.3	14.4	1.0	
12167	579938	5660098	NAD27	21	B-horizon soil	32.4	59.2	110.5	25.2	18.6	
12168	579970	5660102	NAD27	21	B-horizon soil	1.0	35.7	78.3	11.9	16.5	
12169	580023	5660102	NAD27	21	B-horizon soil	1.0	11.5	29.4	1.0	1.0	
12170	579872	5660306	NAD27	21	B-horizon soil	33.2	17.3	64.5	15.7	28.5	
12171	579839	5660295	NAD27	21	B-horizon soil	1.0	33.6	125.9	9.9	1.0	
12172	579782	5660296	NAD27	21	B-horizon soil	1.0	57.9	93.4	28.1	1.0	



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Sample Number	UTM Easting	UTM Northing	Datum	Zone	Sample Medium	pXRF Cu(ppm)	pXRF Pb(ppm)	pXRF Zn(ppm)	pXRF As(ppm)	pXRF Sb(ppm)	Check Analysis - Certificate Reference
12173	579749	5660300	NAD27	21	B-horizon soil	1.0	17.9	63.3	24.3	1.0	
12174	579720	5660302	NAD27	21	B-horizon soil	1.0	29.1	44.9	13.0	12.7	
12175	579555	5660101	NAD27	21	B-horizon soil	1.0	21.2	43.9	16.1	1.0	
12176	579522	5660099	NAD27	21	B-horizon soil	1.0	27.9	50.0	1.0	1.0	
12177	579469	5660101	NAD27	21	B-horizon soil	1.0	25.8	42.7	10.3	1.0	
12178	579338	5660106	NAD27	21	B-horizon soil	43.5	37.2	66.7	34.5	1.0	
12179	579300	5660106	NAD27	21	B-horizon soil	1.0	12.6	114.0	1.0	16.0	
12180	579275	5660102	NAD27	21	B-horizon soil	1.0	14.7	32.0	19.6	12.2	
12181	579739	5659500	NAD27	21	B-horizon soil	1.0	16.2	47.1	1.0	1.0	
12182	579705	5659502	NAD27	21	B-horizon soil	1.0	19.5	45.1	18.2	1.0	
12183	579586	5659502	NAD27	21	B-horizon soil	1.0	1.0	34.0	6.7	1.0	
12184	579555	5659499	NAD27	21	B-horizon soil	1.0	25.6	59.2	21.1	11.4	
12185	579525	5659498	NAD27	21	B-horizon soil	1.0	16.9	61.3	11.0	1.0	
12186	579498	5659496	NAD27	21	B-horizon soil	1.0	22.2	61.2	1.0	14.4	
12187	579469	5659499	NAD27	21	B-horizon soil	1.0	20.2	51.3	9.3	1.0	
12188	579428	5659502	NAD27	21	B-horizon soil	1.0	25.7	114.7	20.0	1.0	
12189	579393	5659501	NAD27	21	B-horizon soil	1.0	57.4	124.4	22.7	1.0	
12190	579357	5659499	NAD27	21	B-horizon soil	1.0	39.8	97.1	19.5	1.0	
12191	579314	5659503	NAD27	21	B-horizon soil	1.0	40.8	189.2	13.8	1.0	
12192	579278	5659503	NAD27	21	B-horizon soil	37.2	45.2	69.2	30.7	1.0	
12193	579086	5659498	NAD27	21	B-horizon soil	1.0	10.2	21.8	1.0	1.0	
12194	579062	5659502	NAD27	21	B-horizon soil	1.0	17.2	63.2	11.2	1.0	
12198	579030	5659498	NAD27	21	B-horizon soil	1.0	17.9	30.8	10.3	1.0	
12199	578999	5659502	NAD27	21	B-horizon soil	1.0	18.3	42.8	17.6	15.5	
12200	578852	5659501	NAD27	21	B-horizon soil	1.0	21.3	59.3	21.1	1.0	
12201	578824	5659498	NAD27	21	B-horizon soil	1.0	10.8	27.3	1.0	1.0	
12202	578744	5659498	NAD27	21	B-horizon soil	1.0	20.2	60.0	18.5	1.0	
12203	578711	5659503	NAD27	21	B-horizon soil	1.0	34.8	214.4	26.2	1.0	
12204	578679	5659496	NAD27	21	B-horizon soil	1.0	28.5	88.1	10.3	1.0	
12205	578642	5659502	NAD27	21	B-horizon soil	1.0	120.8	272.9	1.0	13.2	
12206	578614	5659502	NAD27	21	B-horizon soil	1.0	23.0	60.6	1.0	12.9	
12207	578554	5659495	NAD27	21	B-horizon soil	1.0	16.2	72.5	16.1	1.0	
12208	578526	5659503	NAD27	21	B-horizon soil	1.0	22.9	58.7	13.2	1.0	
12209	578481	5659499	NAD27	21	B-horizon soil	1.0	22.3	75.4	1.0	15.5	
12210	578443	5659503	NAD27	21	B-horizon soil	1.0	18.3	69.9	12.2	1.0	
12211	578410	5659496	NAD27	21	B-horizon soil	1.0	47.4	131.1	22.6	1.0	
12212	578383	5659501	NAD27	21	B-horizon soil	1.0	8.8	31.7	16.4	1.0	
12213	579396	5659701	NAD27	21	B-horizon soil	1.0	13.6	52.5	12.7	1.0	
12214	579425	5659703	NAD27	21	B-horizon soil	1.0	20.5	44.1	9.1	1.0	
12215	579463	5659700	NAD27	21	B-horizon soil	1.0	25.3	70.7	19.3	1.0	
12216	579497	5659701	NAD27	21	B-horizon soil	1.0	43.6	89.1	30.5	1.0	
12217	579528	5659702	NAD27	21	B-horizon soil	1.0	34.2	44.6	16.4	1.0	
12218	579557	5659698	NAD27	21	B-horizon soil	1.0	26.4	46.5	8.8	1.0	
12219	579583	5659702	NAD27	21	B-horizon soil	1.0	23.1	76.1	9.1	1.0	
12220	579618	5659699	NAD27	21	B-horizon soil	1.0	40.8	78.6	20.9	1.0	
12221	579644	5659700	NAD27	21	B-horizon soil	1.0	33.9	199.0	12.7	1.0	
12222	579662	5659699	NAD27	21	B-horizon soil	38.5	30.0	62.9	25.9	1.0	
12223	580116	5659900	NAD27	21	B-horizon soil	1.0	18.9	53.1	10.3	1.0	
12224	580154	5659900	NAD27	21	B-horizon soil	1.0	39.4	66.9	15.1	15.8	
12225	580192	5659898	NAD27	21	B-horizon soil	1.0	36.3	120.4	38.0	13.9	
12226	580225	5659901	NAD27	21	B-horizon soil	1.0	37.5	100.0	28.3	1.0	
12227	580256	5659898	NAD27	21	B-horizon soil	1.0	14.6	68.4	11.8	1.0	
12228	580288	5659900	NAD27	21	B-horizon soil	1.0	36.6	87.5	35.4	1.0	
12229	580317	5659900	NAD27	21	B-horizon soil	1.0	19.0	46.6	14.6	1.0	
12230	580350	5659901	NAD27	21	B-horizon soil	1.0	22.0	44.3	1.0	1.0	
12231	580375	5659899	NAD27	21	B-horizon soil	1.0	23.5	57.3	26.9	1.0	
12232	580405	5659898	NAD27	21	B-horizon soil	1.0	26.5	108.8	24.7	1.0	
12233	580431	5659900	NAD27	21	B-horizon soil	1.0	22.0	74.3	15.8	1.0	
12234	580459	5659900	NAD27	21	B-horizon soil	1.0	18.4	57.3	16.1	1.0	
12235	580488	5659900	NAD27	21	B-horizon soil	1.0	52.1	63.4	1.0	1.0	

Appendix 2: Sail Pond Soil Sample List

Sample Number	UTM Easting	UTM Northing	Datum	Zone	Sample Medium	pXRF Cu(ppm)	pXRF Pb(ppm)	pXRF Zn(ppm)	pXRF As(ppm)	pXRF Sb(ppm)	Check Analysis - Certificate Reference
12236	580528	5659902	NAD27	21	B-horizon soil	1.0	24.3	55.7	43.3	23.1	
12237	580567	5659900	NAD27	21	B-horizon soil	42.9	27.4	63.3	25.2	1.0	
12238	580600	5659899	NAD27	21	B-horizon soil	1.0	12.8	36.5	8.9	1.0	
12239	580627	5659899	NAD27	21	B-horizon soil	1.0	42.9	97.7	12.5	1.0	
12240	580663	5659900	NAD27	21	B-horizon soil	1.0	23.4	34.2	1.0	12.1	
12241	580688	5659898	NAD27	21	B-horizon soil	1.0	10.6	36.5	7.3	1.0	
12242	580722	5659900	NAD27	21	B-horizon soil	1.0	15.7	62.3	11.5	19.2	
12243	580756	5659900	NAD27	21	B-horizon soil	1.0	22.6	72.5	10.3	1.0	
12244	580796	5659898	NAD27	21	B-horizon soil	1.0	20.1	63.9	9.0	18.6	
12245	580820	5659900	NAD27	21	B-horizon soil	1.0	20.9	76.3	11.0	1.0	
12246	580853	5659899	NAD27	21	B-horizon soil	1.0	22.1	68.3	1.0	1.0	
12247	580876	5659899	NAD27	21	B-horizon soil	1.0	16.0	31.3	21.6	1.0	
12248	580944	5660101	NAD27	21	B-horizon soil	1.0	24.3	173.6	10.4	1.0	
12249	580915	5660100	NAD27	21	B-horizon soil	1.0	15.6	24.6	1.0	1.0	
12250	580889	5660099	NAD27	21	B-horizon soil	1.0	23.0	81.3	12.5	1.0	
12251	580865	5660103	NAD27	21	B-horizon soil	1.0	21.4	60.6	8.3	1.0	
12252	580844	5660100	NAD27	21	B-horizon soil	1.0	23.6	48.0	11.2	1.0	
12253	580818	5660102	NAD27	21	B-horizon soil	29.2	26.2	79.4	23.8	1.0	
12254	580790	5660102	NAD27	21	B-horizon soil	1.0	24.7	54.3	11.5	1.0	
12255	580762	5660100	NAD27	21	B-horizon soil	1.0	26.5	150.5	16.5	1.0	
12256	580725	5660100	NAD27	21	B-horizon soil	1.0	39.6	141.5	11.2	1.0	
12257	580698	5660102	NAD27	21	B-horizon soil	1.0	22.1	61.5	11.3	1.0	
12258	580660	5660099	NAD27	21	B-horizon soil	1.0	22.3	56.3	15.9	17.0	
12259	580630	5660100	NAD27	21	B-horizon soil	1.0	19.2	54.3	8.0	1.0	
12260	580506	5660102	NAD27	21	B-horizon soil	1.0	31.8	81.6	1.0	30.9	
12261	580460	5660102	NAD27	21	B-horizon soil	1.0	19.4	60.8	15.0	1.0	
12262	580433	5660101	NAD27	21	B-horizon soil	1.0	25.3	70.2	14.2	1.0	
12263	580400	5660102	NAD27	21	B-horizon soil	1.0	19.3	55.9	9.6	1.0	
12264	580372	5660099	NAD27	21	B-horizon soil	1.0	17.0	61.6	11.5	17.4	
12265	580344	5660101	NAD27	21	B-horizon soil	1.0	24.4	50.8	1.0	1.0	
12266	580313	5660101	NAD27	21	B-horizon soil	1.0	19.7	79.8	16.0	20.6	
12267	580288	5660100	NAD27	21	B-horizon soil	1.0	29.6	69.2	33.1	12.8	
12268	580261	5660102	NAD27	21	B-horizon soil	1.0	25.1	26.8	13.1	1.0	
12269	580229	5660102	NAD27	21	B-horizon soil	1.0	22.9	42.9	10.9	1.0	
12270	580203	5660102	NAD27	21	B-horizon soil	1.0	10.3	30.2	11.5	1.0	
12271	579900	5659699	NAD27	21	B-horizon soil	49.8	23.1	65.8	22.1	1.0	
12272	579927	5659700	NAD27	21	B-horizon soil	1.0	18.4	62.6	1.0	1.0	
12273	579950	5659699	NAD27	21	B-horizon soil	1.0	11.9	36.9	10.9	37.3	
12274	580014	5659701	NAD27	21	B-horizon soil	1.0	13.8	24.8	17.9	1.0	
12275	580043	5659701	NAD27	21	B-horizon soil	1.0	21.4	61.0	1.0	1.0	
12276	580073	5659700	NAD27	21	B-horizon soil	1.0	24.8	79.0	26.6	1.0	
12277	580104	5659698	NAD27	21	B-horizon soil	1.0	25.2	65.4	48.7	1.0	
12278	580136	5659701	NAD27	21	B-horizon soil	1.0	41.3	113.8	40.7	12.9	
12279	580168	5659701	NAD27	21	B-horizon soil	1.0	14.7	35.3	9.1	1.0	
12280	580195	5659700	NAD27	21	B-horizon soil	1.0	11.9	36.5	24.5	1.0	
12281	580227	5659699	NAD27	21	B-horizon soil	1.0	13.5	27.9	22.2	1.0	
12282	580255	5659700	NAD27	21	B-horizon soil	1.0	18.0	33.0	56.8	1.0	
12283	580281	5659700	NAD27	21	B-horizon soil	1.0	28.2	63.8	15.9	1.0	
12284	580308	5659701	NAD27	21	B-horizon soil	1.0	23.4	96.0	10.8	1.0	
12285	580335	5659701	NAD27	21	B-horizon soil	1.0	22.8	56.7	1.0	1.0	
12286	580363	5659700	NAD27	21	B-horizon soil	1.0	20.1	25.0	1.0	14.3	
12287	580392	5659698	NAD27	21	B-horizon soil	1.0	25.6	59.2	13.1	1.0	
12288	580417	5659700	NAD27	21	B-horizon soil	1.0	48.7	105.1	18.7	1.0	
12289	580446	5659701	NAD27	21	B-horizon soil	1.0	16.0	30.8	1.0	12.5	
12290	580472	5659702	NAD27	21	B-horizon soil	1.0	10.4	23.3	12.0	13.3	
12291	580572	5659699	NAD27	21	B-horizon soil	1.0	21.9	78.7	9.1	26.1	
12292	580598	5659699	NAD27	21	B-horizon soil	1.0	15.6	40.1	1.0	18.5	
12293	580632	5659698	NAD27	21	B-horizon soil	1.0	13.8	59.1	13.3	21.1	
12294	580662	5659703	NAD27	21	B-horizon soil	1.0	21.2	76.7	1.0	15.1	
12295	580692	5659702	NAD27	21	B-horizon soil	1.0	19.4	45.6	1.0	15.4	

Appendix 2: Sail Pond Soil Sample List

Sample Number	UTM Easting	UTM Northing	Datum	Zone	Sample Medium	pXRF Cu(ppm)	pXRF Pb(ppm)	pXRF Zn(ppm)	pXRF As(ppm)	pXRF Sb(ppm)	Check Analysis - Certificate Reference
12296	580717	5659703	NAD27	21	B-horizon soil	1.0	22.7	110.5	14.0	1.0	
12297	580743	5659695	NAD27	21	B-horizon soil	1.0	20.0	64.3	9.4	18.7	
12298	580687	5659500	NAD27	21	B-horizon soil	1.0	15.2	32.5	8.9	1.0	
12299	580667	5659503	NAD27	21	B-horizon soil	1.0	20.6	100.0	15.3	1.0	
12300	580640	5659500	NAD27	21	B-horizon soil	1.0	38.1	80.2	42.3	1.0	
12301	580614	5659500	NAD27	21	B-horizon soil	1.0	27.7	113.3	12.4	1.0	
12302	580588	5659497	NAD27	21	B-horizon soil	1.0	20.5	111.9	13.0	1.0	
12303	580542	5659504	NAD27	21	B-horizon soil	1.0	38.0	108.5	25.7	1.0	
12304	580522	5659500	NAD27	21	B-horizon soil	1.0	25.9	66.4	1.0	1.0	
12305	580494	5659497	NAD27	21	B-horizon soil	1.0	38.8	66.4	20.2	1.0	
12306	580471	5659504	NAD27	21	B-horizon soil	1.0	10.8	45.2	1.0	30.8	
12307	580438	5659503	NAD27	21	B-horizon soil	1.0	12.4	46.9	1.0	23.4	
12308	580409	5659502	NAD27	21	B-horizon soil	1.0	19.0	69.3	1.0	22.4	
12309	580379	5659500	NAD27	21	B-horizon soil	1.0	18.5	68.9	10.8	33.9	
12310	580348	5659501	NAD27	21	B-horizon soil	1.0	12.5	30.0	7.6	11.1	
12311	580318	5659500	NAD27	21	B-horizon soil	1.0	51.4	107.4	16.3	1.0	
12312	580278	5659500	NAD27	21	B-horizon soil	1.0	37.5	82.6	16.4	13.6	
12313	580255	5659500	NAD27	21	B-horizon soil	1.0	19.9	45.5	8.2	1.0	
12314	580223	5659500	NAD27	21	B-horizon soil	1.0	15.7	48.8	7.5	1.0	
12315	580190	5659501	NAD27	21	B-horizon soil	1.0	18.6	29.8	1.0	1.0	
12316	580166	5659502	NAD27	21	B-horizon soil	1.0	18.2	52.3	1.0	13.9	
12317	580022	5659500	NAD27	21	B-horizon soil	1.0	35.6	106.1	19.1	1.0	
12318	580001	5659502	NAD27	21	B-horizon soil	1.0	15.4	61.0	46.6	1.0	
12319	579976	5659499	NAD27	21	B-horizon soil	1.0	34.5	51.2	37.5	1.0	
12320	579949	5659505	NAD27	21	B-horizon soil	1.0	14.2	27.2	11.2	13.0	
12321	579849	5659505	NAD27	21	B-horizon soil	1.0	20.5	62.0	17.4	1.0	
12322	579834	5659508	NAD27	21	B-horizon soil	1.0	13.2	23.6	1.0	1.0	
12323	579808	5659499	NAD27	21	B-horizon soil	1.0	28.4	112.7	15.5	1.0	
12324	579789	5659504	NAD27	21	B-horizon soil	1.0	17.3	49.7	8.5	1.0	
12325	579779	5659499	NAD27	21	B-horizon soil	26.8	12.9	23.8	11.4	1.0	
12326	578687	5658700	NAD27	21	B-horizon soil	30.9	31.3	93.2	23.3	1.0	
12327	578717	5658700	NAD27	21	B-horizon soil	1.0	20.4	38.3	8.9	1.0	
12328	578747	5658702	NAD27	21	B-horizon soil	1.0	15.5	55.1	14.2	13.2	
12329	578773	5658701	NAD27	21	B-horizon soil	1.0	21.0	36.1	9.5	1.0	
12330	578810	5658702	NAD27	21	B-horizon soil	1.0	23.5	75.6	1.0	16.5	
12331	578837	5658704	NAD27	21	B-horizon soil	1.0	20.0	69.7	10.7	23.5	
12332	578866	5658699	NAD27	21	B-horizon soil	1.0	24.3	68.2	1.0	24.8	
12333	578893	5658699	NAD27	21	B-horizon soil	1.0	25.8	74.2	1.0	1.0	
12334	578922	5658703	NAD27	21	B-horizon soil	1.0	17.7	27.9	8.0	1.0	
12335	578955	5658697	NAD27	21	B-horizon soil	1.0	10.8	28.5	7.4	1.0	
12339	578979	5658701	NAD27	21	B-horizon soil	37.3	79.3	122.5	27.0	1.0	
12340	579109	5658699	NAD27	21	B-horizon soil	1.0	17.0	68.1	14.9	15.9	
12341	579134	5658701	NAD27	21	B-horizon soil	1.0	16.6	40.1	14.9	1.0	
12342	579160	5658698	NAD27	21	B-horizon soil	1.0	39.5	83.7	33.3	1.0	
12343	579193	5658702	NAD27	21	B-horizon soil	1.0	16.0	51.5	13.4	1.0	
12344	579219	5658703	NAD27	21	B-horizon soil	1.0	18.4	57.7	8.9	1.0	
12345	579297	5658701	NAD27	21	B-horizon soil	1.0	13.6	29.5	11.5	1.0	
12346	579328	5658699	NAD27	21	B-horizon soil	1.0	37.7	93.7	11.4	1.0	
12347	579356	5658701	NAD27	21	B-horizon soil	1.0	26.5	41.4	16.5	1.0	
12348	579385	5658702	NAD27	21	B-horizon soil	1.0	18.2	68.1	18.4	1.0	
12349	579415	5658698	NAD27	21	B-horizon soil	1.0	16.1	67.3	14.1	24.2	
12350	579442	5658699	NAD27	21	B-horizon soil	31.5	51.9	75.1	68.0	1.0	
12351	579470	5658695	NAD27	21	B-horizon soil	1.0	20.7	27.1	9.2	1.0	
12352	579493	5658700	NAD27	21	B-horizon soil	1.0	35.1	87.5	14.1	1.0	
12353	579522	5658699	NAD27	21	B-horizon soil	1.0	23.5	28.5	1.0	12.8	
12354	579555	5658699	NAD27	21	B-horizon soil	1.0	27.2	80.4	10.8	1.0	
12355	579584	5658700	NAD27	21	B-horizon soil	1.0	19.8	39.8	7.9	1.0	
12356	579623	5658702	NAD27	21	B-horizon soil	1.0	11.8	56.2	7.9	35.1	
12357	579684	5658700	NAD27	21	B-horizon soil	1.0	20.4	76.1	1.0	1.0	
12358	579682	5658701	NAD27	21	B-horizon soil	1.0	22.7	82.0	13.5	1.0	

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Sample Number	UTM Easting	UTM Northing	Datum	Zone	Sample Medium	pXRF Cu(ppm)	pXRF Pb(ppm)	pXRF Zn(ppm)	pXRF As(ppm)	pXRF Sb(ppm)	Check Analysis - Certificate Reference
12359	579714	5658701	NAD27	21	B-horizon soil	1.0	13.4	39.9	1.0	1.0	
12360	579741	5658703	NAD27	21	B-horizon soil	1.0	23.7	60.8	1.0	17.9	
12361	579795	5658499	NAD27	21	B-horizon soil	1.0	19.6	54.1	11.0	12.1	
12362	579765	5658500	NAD27	21	B-horizon soil	1.0	25.8	60.5	1.0	14.7	
12363	579741	5658500	NAD27	21	B-horizon soil	1.0	32.9	80.7	17.3	1.0	
12364	579711	5658500	NAD27	21	B-horizon soil	1.0	27.5	63.1	1.0	14.6	
12365	579684	5658499	NAD27	21	B-horizon soil	1.0	20.2	50.6	1.0	11.0	
12366	579656	5658501	NAD27	21	B-horizon soil	1.0	16.3	20.1	1.0	12.4	
12367	579625	5658502	NAD27	21	B-horizon soil	1.0	1.0	49.6	12.1	1.0	
12368	579591	5658503	NAD27	21	B-horizon soil	1.0	13.5	52.2	12.3	1.0	
12369	579554	5658502	NAD27	21	B-horizon soil	1.0	16.2	222.5	13.4	14.9	
12370	579527	5658503	NAD27	21	B-horizon soil	1.0	21.0	32.0	9.7	12.3	
12371	579496	5658504	NAD27	21	B-horizon soil	1.0	32.3	65.5	1.0	1.0	
12372	579470	5658499	NAD27	21	B-horizon soil	1.0	22.7	60.8	12.1	17.1	
12373	579450	5658501	NAD27	21	B-horizon soil	1.0	20.2	105.9	13.3	22.3	
12374	579422	5658503	NAD27	21	B-horizon soil	39.7	20.3	75.7	16.9	1.0	
12376	579395	5658502	NAD27	21	B-horizon soil	1.0	11.1	35.9	1.0	19.1	
12377	579369	5658500	NAD27	21	B-horizon soil	54.8	26.1	65.0	21.5	20.5	
12378	579344	5658503	NAD27	21	B-horizon soil	1.0	17.1	45.5	15.2	1.0	
12379	579321	5658504	NAD27	21	B-horizon soil	1.0	25.8	49.7	10.9	1.0	
12380	579297	5658498	NAD27	21	B-horizon soil	1.0	42.9	127.0	50.0	1.0	
12381	579270	5658502	NAD27	21	B-horizon soil	53.0	29.8	52.6	26.5	1.0	
12382	579244	5658497	NAD27	21	B-horizon soil	1.0	13.4	37.3	12.7	1.0	
12383	579215	5658504	NAD27	21	B-horizon soil	1.0	29.7	123.4	15.7	1.0	
12384	579184	5658500	NAD27	21	B-horizon soil	1.0	38.0	78.9	18.0	1.0	
12385	579108	5658505	NAD27	21	B-horizon soil	1.0	33.7	121.6	15.8	1.0	
12387	579081	5658496	NAD27	21	B-horizon soil	1.0	27.5	129.2	40.2	1.0	
12388	579057	5658499	NAD27	21	B-horizon soil	1.0	28.2	142.2	11.9	1.0	
12389	579028	5658500	NAD27	21	B-horizon soil	1.0	28.0	83.6	11.7	1.0	
12390	578993	5658501	NAD27	21	B-horizon soil	1.0	21.9	93.5	8.9	21.6	
12391	578934	5658505	NAD27	21	B-horizon soil	1.0	20.0	46.9	12.1	1.0	
12392	578908	5658500	NAD27	21	B-horizon soil	1.0	24.0	53.7	11.7	1.0	
12393	578871	5658499	NAD27	21	B-horizon soil	1.0	128.3	181.2	20.9	1.0	
12394	578839	5658498	NAD27	21	B-horizon soil	1.0	14.5	112.1	20.6	1.0	
12395	578807	5658503	NAD27	21	B-horizon soil	1.0	21.8	70.5	14.7	12.3	
12396	578780	5658497	NAD27	21	B-horizon soil	1.0	20.7	78.8	8.6	1.0	
12397	578731	5658502	NAD27	21	B-horizon soil	1.0	32.5	86.0	45.7	1.0	
12398	578670	5658502	NAD27	21	B-horizon soil	1.0	23.3	76.2	24.5	1.0	
12399	579058	5661804	NAD27	21	B-horizon soil	1.0	18.8	26.8	10.5	1.0	
12400	579026	5661798	NAD27	21	B-horizon soil	1.0	19.1	57.8	20.9	1.0	
12501	578999	5661800	NAD27	21	B-horizon soil	1.0	12.6	23.7	1.0	1.0	
12502	578969	5661798	NAD27	21	B-horizon soil	1.0	12.8	61.7	1.0	1.0	
12503	578936	5661803	NAD27	21	B-horizon soil	1.0	18.8	40.6	13.4	1.0	
12504	578900	5661800	NAD27	21	B-horizon soil	1.0	31.8	164.0	31.9	1.0	
12505	578866	5661800	NAD27	21	B-horizon soil	1.0	21.9	27.9	30.4	1.0	
12506	578834	5661800	NAD27	21	B-horizon soil	1.0	18.4	72.4	11.2	1.0	
12507	578785	5661800	NAD27	21	B-horizon soil	1.0	38.0	98.5	64.2	1.0	
12508	578760	5661800	NAD27	21	B-horizon soil	39.1	79.6	172.6	24.4	1.0	
12509	578727	5661800	NAD27	21	B-horizon soil	1.0	42.8	68.7	36.6	1.0	
12510	578691	5661800	NAD27	21	B-horizon soil	1.0	53.3	185.0	26.5	1.0	
12511	578656	5661800	NAD27	21	B-horizon soil	1.0	103.5	142.0	16.5	1.0	
12512	578613	5661800	NAD27	21	B-horizon soil	1.0	38.3	155.9	34.7	1.0	
12513	578569	5661800	NAD27	21	B-horizon soil	1.0	16.0	51.1	27.9	1.0	
12514	578539	5661795	NAD27	21	B-horizon soil	1.0	12.2	11.4	1.0	1.0	
12515	578510	5661800	NAD27	21	B-horizon soil	1.0	170.1	96.1	63.7	1.0	
12516	578469	5661800	NAD27	21	B-horizon soil	1.0	27.3	72.2	13.6	25.1	
12517	578434	5661796	NAD27	21	B-horizon soil	1.0	30.3	88.3	10.5	1.0	
12518	578420	5661800	NAD27	21	B-horizon soil	1.0	22.5	75.9	36.1	1.0	
12519	578378	5661800	NAD27	21	B-horizon soil	1.0	32.1	68.7	22.0	1.0	
12520	578350	5661800	NAD27	21	B-horizon soil	1.0	27.2	76.1	17.3	12.2	

Appendix 2: Sail Pond Soil Sample List

Sample Number	UTM Easting	UTM Northing	Datum	Zone	Sample Medium	pXRF Cu(ppm)	pXRF Pb(ppm)	pXRF Zn(ppm)	pXRF As(ppm)	pXRF Sb(ppm)	Check Analysis - Certificate Reference
12521	578315	5661800	NAD27	21	B-horizon soil	1.0	16.6	38.8	9.1	1.0	
12522	578288	5661800	NAD27	21	B-horizon soil	1.0	26.2	63.3	20.8	1.0	
12523	578253	5661795	NAD27	21	B-horizon soil	1.0	25.1	41.0	1.0	1.0	
12524	578168	5661600	NAD27	21	B-horizon soil	1.0	27.4	55.5	9.3	1.0	
12525	578209	5661608	NAD27	21	B-horizon soil	1.0	21.7	33.2	1.0	1.0	
12526	578245	5661600	NAD27	21	B-horizon soil	1.0	15.6	26.6	1.0	1.0	
12527	578283	5661600	NAD27	21	B-horizon soil	1.0	31.9	100.9	10.0	1.0	
12528	578321	5661600	NAD27	21	B-horizon soil	1.0	19.9	86.8	8.9	1.0	
12529	578352	5661608	NAD27	21	B-horizon soil	1.0	31.3	171.9	15.2	1.0	
12530	578388	5661600	NAD27	21	B-horizon soil	1.0	14.9	59.0	9.6	1.0	
12531	578424	5661600	NAD27	21	B-horizon soil	1.0	27.7	112.0	12.5	1.0	
12532	578464	5661600	NAD27	21	B-horizon soil	1.0	33.4	77.7	9.6	1.0	
12533	578507	5661600	NAD27	21	B-horizon soil	1.0	18.9	71.3	15.3	11.7	
12534	578540	5661596	NAD27	21	B-horizon soil	1.0	22.2	61.9	13.6	1.0	
12535	578556	5661600	NAD27	21	B-horizon soil	43.0	103.7	201.4	38.7	1.0	
12536	578583	5661593	NAD27	21	B-horizon soil	28.1	35.0	56.6	1.0	1.0	
12537	578617	5661608	NAD27	21	B-horizon soil	410.3	92.7	311.9	85.8	1.0	
12538	578641	5661605	NAD27	21	B-horizon soil	1.0	67.8	289.0	42.3	1.0	
12539	578671	5661605	NAD27	21	B-horizon soil	1.0	50.1	125.6	19.8	1.0	
12540	578714	5661600	NAD27	21	B-horizon soil	34.2	38.3	74.4	27.6	1.0	
12541	578740	5661600	NAD27	21	B-horizon soil	1.0	61.0	133.4	52.3	1.0	
12542	578770	5661600	NAD27	21	B-horizon soil	1.0	64.9	485.9	21.1	1.0	
12543	578796	5661610	NAD27	21	B-horizon soil	1.0	28.6	112.9	11.0	1.0	
12544	578826	5661600	NAD27	21	B-horizon soil	1.0	14.5	30.4	12.4	1.0	
12545	578852	5661590	NAD27	21	B-horizon soil	1.0	18.8	56.4	1.0	1.0	
12546	578877	5661600	NAD27	21	B-horizon soil	1.0	12.0	25.6	1.0	1.0	
12547	578916	5661600	NAD27	21	B-horizon soil	1.0	16.3	56.4	9.2	1.0	
12548	578943	5661600	NAD27	21	B-horizon soil	1.0	23.9	54.7	17.4	1.0	
12549	578818	5661400	NAD27	21	B-horizon soil	1.0	31.5	60.4	25.0	1.0	
12550	578786	5661400	NAD27	21	B-horizon soil	1.0	41.4	45.9	15.2	1.0	
12551	578765	5661400	NAD27	21	B-horizon soil	1.0	26.6	49.7	1.0	15.4	
12552	578727	5661405	NAD27	21	B-horizon soil	1.0	37.7	72.9	1.0	1.0	
12553	578688	5661397	NAD27	21	B-horizon soil	1.0	18.9	60.0	13.3	24.6	
12554	578649	5661400	NAD27	21	B-horizon soil	1.0	36.2	196.9	30.5	1.0	
12555	578623	5661400	NAD27	21	B-horizon soil	1.0	18.6	127.1	14.1	1.0	
12556	578580	5661395	NAD27	21	B-horizon soil	1.0	19.4	80.8	8.5	1.0	
12557	578549	5661400	NAD27	21	B-horizon soil	1.0	28.5	69.6	1.0	1.0	
12558	578513	5661395	NAD27	21	B-horizon soil	1.0	29.3	72.3	11.3	1.0	
12559	578439	5661400	NAD27	21	B-horizon soil	1.0	25.8	72.8	11.6	19.2	
12560	578410	5661395	NAD27	21	B-horizon soil	1.0	23.6	82.6	13.0	1.0	
12561	578374	5661400	NAD27	21	B-horizon soil	1.0	1.0	35.0	12.9	1.0	
12562	578297	5661397	NAD27	21	B-horizon soil	1.0	28.9	36.8	17.4	1.0	
12563	578260	5661400	NAD27	21	B-horizon soil	1.0	27.9	63.8	12.2	1.0	
12564	578220	5661402	NAD27	21	B-horizon soil	1.0	14.8	71.4	14.5	17.4	
12565	578190	5661400	NAD27	21	B-horizon soil	1.0	22.1	44.2	1.0	11.4	
12566	578154	5661400	NAD27	21	B-horizon soil	1.0	12.6	25.7	1.0	1.0	
12567	578095	5661395	NAD27	21	B-horizon soil	1.0	37.9	92.7	16.4	15.4	
12568	578067	5661400	NAD27	21	B-horizon soil	1.0	20.2	152.5	18.6	1.0	
12569	578029	5661400	NAD27	21	B-horizon soil	1.0	40.1	153.7	21.9	1.0	
12570	578000	5661400	NAD27	21	B-horizon soil	1.0	35.7	142.5	95.7	1.0	
12571	577950	5661200	NAD27	21	B-horizon soil	1.0	24.0	55.4	28.6	1.0	
12572	577985	5661200	NAD27	21	B-horizon soil	1.0	33.0	85.6	17.1	1.0	
12573	578025	5661205	NAD27	21	B-horizon soil	1.0	34.1	86.0	16.0	1.0	
12574	578049	5661202	NAD27	21	B-horizon soil	1.0	24.8	76.9	9.6	1.0	
12575	578110	5661200	NAD27	21	B-horizon soil	1.0	19.6	77.2	85.2	1.0	
12576	578146	5661200	NAD27	21	B-horizon soil	1.0	19.9	34.3	9.4	1.0	
12577	578185	5661200	NAD27	21	B-horizon soil	1.0	27.4	369.4	10.8	1.0	
12578	578207	5661205	NAD27	21	B-horizon soil	1.0	37.2	132.4	29.8	1.0	
12579	578247	5661198	NAD27	21	B-horizon soil	1.0	27.8	129.9	22.6	1.0	
12580	578440	5661200	NAD27	21	B-horizon soil	1.0	19.5	110.8	11.0	1.0	

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Sample Number	UTM Easting	UTM Northing	Datum	Zone	Sample Medium	pXRF Cu(ppm)	pXRF Pb(ppm)	pXRF Zn(ppm)	pXRF As(ppm)	pXRF Sb(ppm)	Check Analysis - Certificate Reference
12581	578477	5661200	NAD27	21	B-horizon soil	1.0	45.4	176.3	10.5	1.0	
12582	578500	5661200	NAD27	21	B-horizon soil	64.6	62.9	133.3	33.3	1.0	
12583	578553	5661200	NAD27	21	B-horizon soil	37.6	136.5	325.8	43.0	1.0	
12584	578586	5661200	NAD27	21	B-horizon soil	1.0	39.1	145.4	16.9	1.0	
12585	578623	5661195	NAD27	21	B-horizon soil	1.0	12.8	36.2	11.2	1.0	
12586	578651	5661195	NAD27	21	B-horizon soil	29.0	28.1	66.0	21.8	12.7	
12587	578704	5661198	NAD27	21	B-horizon soil	1.0	17.3	45.3	10.2	1.0	
12588	578733	5661201	NAD27	21	B-horizon soil	31.5	90.0	120.8	69.3	1.0	
12589	578762	5661210	NAD27	21	B-horizon soil	1.0	41.6	110.9	13.8	1.0	
12590	578808	5661200	NAD27	21	B-horizon soil	1.0	18.0	134.0	1.0	1.0	
12591	578832	5661200	NAD27	21	B-horizon soil	1.0	16.5	48.1	11.5	1.0	
12592	578864	5661195	NAD27	21	B-horizon soil	1.0	27.4	123.0	20.4	1.0	
12593	578900	5661200	NAD27	21	B-horizon soil	1.0	10.3	22.0	7.1	1.0	
12594	578950	5661200	NAD27	21	B-horizon soil	1.0	27.2	77.9	13.3	1.0	
12595	579071	5661404	NAD27	21	B-horizon soil	1.0	22.1	35.6	1.0	1.0	
12596	579044	5661403	NAD27	21	B-horizon soil	1.0	17.5	57.0	9.0	1.0	
12597	579000	5661397	NAD27	21	B-horizon soil	1.0	25.1	90.6	30.2	1.0	
12598	578965	5661400	NAD27	21	B-horizon soil	1.0	32.7	65.0	22.1	1.0	
12599	578920	5661405	NAD27	21	B-horizon soil	1.0	9.9	20.7	7.6	1.0	
12600	578888	5661395	NAD27	21	B-horizon soil	1.0	1.0	9.2	1.0	21.6	
12601	578840	5661390	NAD27	21	B-horizon soil	1.0	30.7	268.6	14.1	1.0	
12602	579543	5659100	NAD27	21	B-horizon soil	1.0	24.9	21.4	1.0	12.5	
12603	579409	5659103	NAD27	21	B-horizon soil	1.0	29.8	68.8	11.7	1.0	
12604	579369	5659102	NAD27	21	B-horizon soil	1.0	17.2	39.2	19.6	1.0	
12605	579321	5659095	NAD27	21	B-horizon soil	1.0	25.0	60.9	1.0	23.6	
12606	579290	5659100	NAD27	21	B-horizon soil	1.0	26.7	74.7	14.6	17.2	
12607	579250	5659100	NAD27	21	B-horizon soil	1.0	17.0	29.7	8.6	1.0	
12608	579187	5659100	NAD27	21	B-horizon soil	1.0	19.1	34.2	8.7	1.0	
12609	579149	5659100	NAD27	21	B-horizon soil	1.0	41.7	105.6	14.6	1.0	
12610	578820	5659100	NAD27	21	B-horizon soil	1.0	36.2	64.1	13.2	1.0	
12611	578778	5659100	NAD27	21	B-horizon soil	1.0	19.3	47.9	12.2	1.0	
12612	578719	5659100	NAD27	21	B-horizon soil	1.0	16.7	59.3	10.3	1.0	
12613	578699	5659100	NAD27	21	B-horizon soil	1.0	33.1	57.5	1.0	11.3	
12614	578548	5659105	NAD27	21	B-horizon soil	1.0	28.8	117.9	17.5	1.0	
12615	578514	5659100	NAD27	21	B-horizon soil	1.0	37.1	102.4	19.3	1.0	
12616	578478	5659100	NAD27	21	B-horizon soil	1.0	29.8	73.8	11.4	1.0	
12617	578445	5659100	NAD27	21	B-horizon soil	1.0	23.1	147.6	15.4	1.0	
12618	578407	5659100	NAD27	21	B-horizon soil	1.0	26.0	101.9	14.5	1.0	
12619	578374	5659105	NAD27	21	B-horizon soil	1.0	15.5	40.9	9.4	1.0	
12620	578347	5659100	NAD27	21	B-horizon soil	1.0	15.7	20.4	1.0	14.2	
12621	578318	5659100	NAD27	21	B-horizon soil	1.0	38.5	162.3	26.2	1.0	
12622	578283	5659098	NAD27	21	B-horizon soil	1.0	35.7	90.7	61.9	1.0	
12623	578240	5659100	NAD27	21	B-horizon soil	1.0	29.4	74.8	21.3	1.0	
12624	578206	5659100	NAD27	21	B-horizon soil	1.0	12.3	41.4	8.6	1.0	
12625	578175	5659100	NAD27	21	B-horizon soil	1.0	14.9	31.4	13.9	1.0	
12626	578300	5659300	NAD27	21	B-horizon soil	37.6	35.5	89.7	11.7	14.3	
12627	578367	5659300	NAD27	21	B-horizon soil	1.0	24.6	55.5	1.0	24.4	
12628	578440	5659300	NAD27	21	B-horizon soil	1.0	11.1	30.0	13.7	1.0	
12629	578476	5659300	NAD27	21	B-horizon soil	1.0	43.7	87.7	18.3	1.0	
12630	578508	5659304	NAD27	21	B-horizon soil	1.0	24.9	104.0	13.9	14.5	
12631	578544	5659300	NAD27	21	B-horizon soil	1.0	25.7	78.7	14.3	1.0	
12632	578577	5659295	NAD27	21	B-horizon soil	1.0	21.7	36.5	18.4	15.2	
12633	578608	5659300	NAD27	21	B-horizon soil	1.0	10.8	32.4	11.9	1.0	
12634	578710	5659300	NAD27	21	B-horizon soil	1.0	21.4	34.5	21.4	1.0	
12635	578885	5659300	NAD27	21	B-horizon soil	1.0	18.2	26.4	14.0	20.8	
12636	579187	5659300	NAD27	21	B-horizon soil	1.0	268.2	87.3	21.6	1.0	
12637	579224	5659300	NAD27	21	B-horizon soil	1.0	41.4	99.0	12.0	1.0	
12638	579251	5659300	NAD27	21	B-horizon soil	1.0	59.9	133.7	20.8	1.0	
12639	579279	5659305	NAD27	21	B-horizon soil	1.0	97.1	140.5	1.0	1.0	
12640	579307	5659300	NAD27	21	B-horizon soil	47.7	86.7	116.0	65.4	1.0	

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Sample Number	UTM Easting	UTM Northing	Datum	Zone	Sample Medium	pXRF Cu(ppm)	pXRF Pb(ppm)	pXRF Zn(ppm)	pXRF As(ppm)	pXRF Sb(ppm)	Check Analysis - Certificate Reference
12641	579359	5659300	NAD27	21	B-horizon soil	1.0	47.2	70.3	24.3	12.5	
12642	579390	5659300	NAD27	21	B-horizon soil	1.0	29.4	67.1	9.7	19.2	
12643	579430	5659300	NAD27	21	B-horizon soil	1.0	19.7	39.2	29.4	1.0	
12644	579460	5659300	NAD27	21	B-horizon soil	1.0	23.8	59.1	20.6	1.0	
12645	579486	5659300	NAD27	21	B-horizon soil	1.0	9.0	24.6	1.0	17.0	
12646	579555	5659300	NAD27	21	B-horizon soil	1.0	21.7	42.1	13.3	1.0	
12647	577072	5659195	NAD27	21	B-horizon soil	1.0	28.6	75.2	19.3	1.0	
12648	577100	5659200	NAD27	21	B-horizon soil	1.0	14.8	93.5	27.7	1.0	
12649	577131	5659200	NAD27	21	B-horizon soil	1.0	34.1	73.7	9.6	1.0	
12650	577169	5659200	NAD27	21	B-horizon soil	1.0	28.0	82.0	18.1	1.0	
12651	577209	5659200	NAD27	21	B-horizon soil	61.9	39.4	100.8	32.7	40.1	
12652	577245	5659195	NAD27	21	B-horizon soil	1.0	40.6	92.6	13.6	1.0	
12653	577269	5659204	NAD27	21	B-horizon soil	31.7	130.5	177.7	53.7	19.4	
12654	577307	5659195	NAD27	21	B-horizon soil	1.0	10.5	28.2	11.1	1.0	
12655	577329	5659200	NAD27	21	B-horizon soil	1.0	15.2	145.9	16.9	1.0	
12656	577370	5659200	NAD27	21	B-horizon soil	1.0	105.2	147.3	29.3	1.0	
12657	577416	5659200	NAD27	21	B-horizon soil	1.0	53.4	148.4	31.0	1.0	
12658	577444	5659200	NAD27	21	B-horizon soil	1.0	28.4	74.0	1.0	1.0	
12659	577474	5659197	NAD27	21	B-horizon soil	1.0	121.6	296.2	27.7	1.0	
12660	577535	5659200	NAD27	21	B-horizon soil	1.0	16.7	96.5	15.4	1.0	
12661	577618	5659400	NAD27	21	B-horizon soil	1.0	24.8	97.8	26.3	1.0	
12662	577579	5659400	NAD27	21	B-horizon soil	1.0	41.5	89.4	1.0	1.0	
12663	577540	5659400	NAD27	21	B-horizon soil	1.0	16.8	73.6	17.9	1.0	
12664	577519	5659400	NAD27	21	B-horizon soil	1.0	17.6	59.2	38.4	1.0	
12665	577480	5659400	NAD27	21	B-horizon soil	26.4	11.4	197.2	10.3	1.0	
12666	577440	5659400	NAD27	21	B-horizon soil	1.0	14.2	38.4	1.0	1.0	
12669	577400	5659400	NAD27	21	B-horizon soil	79.3	60.5	241.7	45.2	1.0	
12670	577370	5659400	NAD27	21	B-horizon soil	41.6	185.6	366.8	52.3	1.0	
12671	577336	5659401	NAD27	21	B-horizon soil	39.9	118.7	229.1	65.9	1.0	
12672	577300	5659400	NAD27	21	B-horizon soil	1.0	36.4	96.6	18.7	1.0	
12673	577270	5659400	NAD27	21	B-horizon soil	1.0	19.2	72.1	15.3	1.0	
12674	577232	5659400	NAD27	21	B-horizon soil	1.0	28.1	179.4	26.3	1.0	
12675	577198	5659400	NAD27	21	B-horizon soil	1.0	20.0	125.5	49.3	1.0	
12676	577170	5659400	NAD27	21	B-horizon soil	1.0	30.6	124.6	40.2	1.0	
12677	577145	5659402	NAD27	21	B-horizon soil	1.0	19.0	50.2	10.8	1.0	
12678	577113	5659404	NAD27	21	B-horizon soil	1.0	15.7	43.4	7.4	1.0	
12679	577078	5659399	NAD27	21	B-horizon soil	28.9	24.6	83.1	14.2	1.0	
12680	577100	5659600	NAD27	21	B-horizon soil	1.0	21.7	64.3	9.3	1.0	
12681	577245	5659590	NAD27	21	B-horizon soil	1.0	15.2	44.6	10.8	1.0	
12682	577280	5659600	NAD27	21	B-horizon soil	1.0	31.8	91.3	17.5	1.0	
12683	577305	5659600	NAD27	21	B-horizon soil	1.0	12.0	41.5	8.8	12.0	
12684	577345	5659600	NAD27	21	B-horizon soil	1.0	15.4	95.8	15.0	1.0	
12685	577375	5659600	NAD27	21	B-horizon soil	1.0	21.2	161.8	15.4	1.0	
12686	577410	5659600	NAD27	21	B-horizon soil	1.0	25.3	70.9	17.3	1.0	
12687	577435	5659600	NAD27	21	B-horizon soil	1.0	203.7	108.8	80.4	1.0	
12688	577477	5659600	NAD27	21	B-horizon soil	1.0	32.2	90.1	17.3	13.4	
12689	577520	5659600	NAD27	21	B-horizon soil	44.2	30.3	110.0	24.3	14.4	
12690	577560	5659595	NAD27	21	B-horizon soil	1.0	18.1	70.6	25.0	18.3	
12691	577700	5659800	NAD27	21	B-horizon soil	1.0	11.1	29.0	9.0	1.0	
12692	577664	5659795	NAD27	21	B-horizon soil	1.0	26.5	190.0	15.6	1.0	
12693	577627	5659800	NAD27	21	B-horizon soil	46.3	39.4	85.7	32.5	1.0	
12694	577588	5659798	NAD27	21	B-horizon soil	374.8	48.6	841.0	40.1	1.0	
12695	577548	5659800	NAD27	21	B-horizon soil	1.0	15.8	59.4	18.5	1.0	
12696	577518	5659800	NAD27	21	B-horizon soil	1.0	18.9	74.6	14.4	12.0	
12697	577421	5659800	NAD27	21	B-horizon soil	1.0	16.3	34.5	13.4	1.0	
12698	577372	5659800	NAD27	21	B-horizon soil	1.0	28.5	141.1	15.8	17.6	
12699	577332	5659798	NAD27	21	B-horizon soil	58.1	34.7	134.3	48.1	1.0	
12700	577294	5659800	NAD27	21	B-horizon soil	1.0	19.8	82.3	31.2	13.7	
12801	576757	5658600	NAD27	21	B-horizon soil	1.0	44.8	109.5	18.4	1.0	
12803	576785	5658603	NAD27	21	B-horizon soil	1.0	20.8	51.9	1.0	12.8	



## Appendix 2: Sail Pond Soil Sample List

Sample Number	UTM Easting	UTM Northing	Datum	Zone	Sample Medium	pXRF Cu(ppm)	pXRF Pb(ppm)	pXRF Zn(ppm)	pXRF As(ppm)	pXRF Sb(ppm)	Check Analysis - Certificate Reference
12804	576825	5658801	NAD27	21	B-horizon soil	1.0	28.2	74.0	13.3	1.0	
12805	576844	5658798	NAD27	21	B-horizon soil	49.5	34.9	64.4	22.1	1.0	
12806	576879	5658799	NAD27	21	B-horizon soil	1.0	20.0	75.5	11.4	1.0	
12807	576902	5658801	NAD27	21	B-horizon soil	1.0	34.1	179.3	1.0	1.0	
12808	576932	5658799	NAD27	21	B-horizon soil	1.0	32.0	92.2	40.1	1.0	
12809	576962	5658786	NAD27	21	B-horizon soil	1.0	43.5	239.7	1.0	1.0	
12810	576993	5658799	NAD27	21	B-horizon soil	1.0	32.9	68.2	10.4	1.0	
12811	577022	5658801	NAD27	21	B-horizon soil	1.0	20.1	59.6	1.0	1.0	
12812	577052	5658799	NAD27	21	B-horizon soil	105.9	33.2	294.9	28.0	24.3	
12813	577074	5658801	NAD27	21	B-horizon soil	70.5	28.1	324.0	25.9	1.0	
12814	577100	5658796	NAD27	21	B-horizon soil	1.0	21.4	52.8	20.4	1.0	
12815	577126	5658799	NAD27	21	B-horizon soil	1.0	37.8	136.5	14.6	1.0	
12816	577150	5658800	NAD27	21	B-horizon soil	1.0	49.4	91.7	34.1	1.0	
12817	577176	5658803	NAD27	21	B-horizon soil	1.0	23.2	55.6	14.0	1.0	
12818	577202	5658801	NAD27	21	B-horizon soil	45.3	71.7	147.5	43.5	14.6	
12819	577230	5658795	NAD27	21	B-horizon soil	1.0	642.6	603.7	126.8	17.5	
12820	577252	5658799	NAD27	21	B-horizon soil	1.0	1.0	13.4	1.0	1.0	
12821	577275	5658794	NAD27	21	B-horizon soil	1.0	100.1	359.2	35.5	1.0	
12822	577337	5659000	NAD27	21	B-horizon soil	1.0	28.9	110.1	41.0	1.0	
12823	577316	5659004	NAD27	21	B-horizon soil	1.0	26.3	133.1	35.0	1.0	
12824	577290	5659000	NAD27	21	B-horizon soil	33.7	63.5	122.9	48.6	1.0	
12825	577260	5658999	NAD27	21	B-horizon soil	1.0	35.4	88.1	14.3	1.0	
12826	577233	5658997	NAD27	21	B-horizon soil	1.0	42.6	146.2	19.1	1.0	
12827	577204	5659002	NAD27	21	B-horizon soil	33.0	17.2	63.5	55.9	1.0	
12828	577180	5658998	NAD27	21	B-horizon soil	32.6	380.6	226.1	33.7	1.0	
12829	577159	5659001	NAD27	21	B-horizon soil	1.0	48.2	102.9	29.7	1.0	
12830	577133	5659004	NAD27	21	B-horizon soil	1.0	182.0	188.1	99.9	1.0	
12831	577106	5658994	NAD27	21	B-horizon soil	1.0	14.4	112.2	17.9	11.8	
12832	577079	5659001	NAD27	21	B-horizon soil	1.0	40.9	154.3	13.5	1.0	
12833	577053	5658999	NAD27	21	B-horizon soil	1.0	28.5	80.3	11.2	1.0	
12834	577026	5659002	NAD27	21	B-horizon soil	1.0	19.9	92.6	21.9	1.0	
12835	576999	5659002	NAD27	21	B-horizon soil	1.0	17.2	32.4	10.4	1.0	
12836	576959	5658999	NAD27	21	B-horizon soil	1.0	25.0	65.8	15.1	1.0	
12837	576934	5659002	NAD27	21	B-horizon soil	1.0	26.7	45.4	1.0	1.0	
12838	576909	5659003	NAD27	21	B-horizon soil	1.0	19.7	63.5	16.0	1.0	
12839	576885	5658996	NAD27	21	B-horizon soil	1.0	23.6	81.8	16.4	1.0	
12840	578590	5662298	NAD27	21	B-horizon soil	1.0	23.6	49.0	24.5	1.0	
12841	578562	5662300	NAD27	21	B-horizon soil	1.0	61.3	135.1	41.7	1.0	
12842	578537	5662298	NAD27	21	B-horizon soil	1.0	20.4	28.2	12.7	1.0	
12843	578482	5662302	NAD27	21	B-horizon soil	1.0	12.7	35.9	1.0	30.6	
12844	578571	5662399	NAD27	21	B-horizon soil	1.0	26.8	40.4	12.7	1.0	
12845	578599	5662404	NAD27	21	B-horizon soil	803.1	119.8	88.2	145.4	29.5	
12846	578645	5662399	NAD27	21	B-horizon soil	1.0	19.6	56.8	21.8	1.0	
12847	578672	5662396	NAD27	21	B-horizon soil	1.0	15.0	53.1	1.0	1.0	
12848	578776	5662397	NAD27	21	B-horizon soil	1.0	16.1	42.2	33.4	1.0	
12849	578807	5662403	NAD27	21	B-horizon soil	1.0	26.7	54.7	23.1	1.0	
12850	578832	5662397	NAD27	21	B-horizon soil	42.2	78.5	160.9	35.2	1.0	
12851	578857	5662401	NAD27	21	B-horizon soil	53.3	394.6	212.1	120.5	25.4	
12852	578847	5662398	NAD27	21	B-horizon soil	1.0	37.8	128.7	28.6	14.5	
12853	578917	5662402	NAD27	21	B-horizon soil	1505.4	4308.4	2994.9	473.5	87.4	
12854	578936	5662400	NAD27	21	B-horizon soil	58.4	161.8	835.1	102.9	23.6	
12855	578970	5662403	NAD27	21	B-horizon soil	1.0	29.9	85.5	31.3	1.0	
12856	579001	5662402	NAD27	21	B-horizon soil	1.0	92.8	130.8	34.8	1.0	
12857	579033	5662403	NAD27	21	B-horizon soil	1.0	42.0	199.6	30.7	15.1	
12858	579059	5662403	NAD27	21	B-horizon soil	1.0	44.4	174.9	13.8	1.0	
12859	579207	5662603	NAD27	21	B-horizon soil	1.0	20.3	46.6	30.0	1.0	
12860	579177	5662602	NAD27	21	B-horizon soil	1.0	21.7	94.2	8.8	1.0	
12861	579152	5661603	NAD27	21	B-horizon soil	1.0	45.9	244.8	32.2	1.0	
12862	579125	5661601	NAD27	21	B-horizon soil	1.0	17.7	44.3	22.1	1.0	
12863	579090	5662603	NAD27	21	B-horizon soil	157.6	45.9	765.5	32.1	15.9	

## Appendix 2: Sail Pond Soil Sample List

Sample Number	UTM Easting	UTM Northing	Datum	Zone	Sample Medium	pXRF Cu(ppm)	pXRF Pb(ppm)	pXRF Zn(ppm)	pXRF As(ppm)	pXRF Sb(ppm)	Check Analysis - Certificate Reference
12864	579060	5662597	NAD27	21	B-horizon soil	37.3	50.0	124.4	25.7	1.0	
12865	579035	5662599	NAD27	21	B-horizon soil	1.0	19.3	52.2	23.0	1.0	
12866	579022	5662600	NAD27	21	B-horizon soil	556.4	196.6	1858.3	80.2	27.2	
12867	578990	5662599	NAD27	21	B-horizon soil	1.0	30.0	171.9	43.5	28.4	
12868	578962	5662603	NAD27	21	B-horizon soil	26.0	47.7	88.3	42.2	1.0	
12869	578936	5662603	NAD27	21	B-horizon soil	1.0	15.6	59.3	17.6	1.0	
12870	578906	5662600	NAD27	21	B-horizon soil	1.0	22.0	55.7	43.6	1.0	
12871	578821	5662604	NAD27	21	B-horizon soil	1.0	15.6	60.9	21.8	1.0	
12872	578794	5662605	NAD27	21	B-horizon soil	1.0	1.0	1.0	9.3	1.0	
12873	578765	5662602	NAD27	21	B-horizon soil	1.0	12.8	24.5	15.3	1.0	
12874	578734	5662604	NAD27	21	B-horizon soil	1.0	54.8	86.0	18.5	1.0	
12875	578707	5662603	NAD27	21	B-horizon soil	1.0	22.4	35.0	14.7	1.0	
12876	578687	5662601	NAD27	21	B-horizon soil	1.0	30.4	76.0	11.4	1.0	
12877	578632	5662604	NAD27	21	B-horizon soil	1.0	65.6	107.7	40.2	1.0	
12878	578569	5662604	NAD27	21	B-horizon soil	1.0	24.6	26.3	12.2	1.0	
12879	578587	5662698	NAD27	21	B-horizon soil	1.0	57.3	80.1	20.6	1.0	
12880	578688	5662696	NAD27	21	B-horizon soil	1.0	50.3	87.7	17.4	1.0	
12881	578716	5662701	NAD27	21	B-horizon soil	1.0	32.2	54.6	24.3	1.0	
12882	578735	5662703	NAD27	21	B-horizon soil	1.0	16.8	32.5	9.4	1.0	
12883	578758	5662700	NAD27	21	B-horizon soil	1.0	20.5	23.1	18.6	1.0	
12884	578851	5662703	NAD27	21	B-horizon soil	1.0	20.4	87.9	18.2	1.0	
12885	578994	5662698	NAD27	21	B-horizon soil	148.8	365.1	502.7	110.9	23.7	
12886	579024	5662703	NAD27	21	B-horizon soil	66.7	325.4	415.2	70.5	1.0	
12887	579047	5662703	NAD27	21	B-horizon soil	1.0	19.5	41.3	13.6	1.0	
12888	579082	5662703	NAD27	21	B-horizon soil	1.0	19.3	28.1	25.7	1.0	
12889	579113	5662704	NAD27	21	B-horizon soil	112.3	85.6	503.4	75.4	17.3	
12890	579197	5662704	NAD27	21	B-horizon soil	1.0	32.5	70.2	17.9	1.0	
12891	579218	5662698	NAD27	21	B-horizon soil	1.0	48.0	145.3	44.6	1.0	
12892	579246	5662704	NAD27	21	B-horizon soil	1.0	75.1	79.7	32.1	1.0	
12893	577942	5660205	NAD27	21	B-horizon soil	112.1	137.8	206.3	39.6	1.0	
12894	577967	5660198	NAD27	21	B-horizon soil	1.0	24.3	39.9	21.8	1.0	
12895	577995	5660204	NAD27	21	B-horizon soil	1.0	13.0	73.5	12.9	1.0	
12896	578019	5660198	NAD27	21	B-horizon soil	1.0	52.5	237.9	27.2	1.0	
12897	578047	5660198	NAD27	21	B-horizon soil	33.3	21.9	95.4	34.1	1.0	
12898	578171	5660203	NAD27	21	B-horizon soil	1.0	28.0	75.2	1.0	12.7	
12899	578194	5660198	NAD27	21	B-horizon soil	1.0	41.2	250.7	19.4	1.0	
12900	578223	5660198	NAD27	21	B-horizon soil	33.1	40.8	148.5	19.7	1.0	
12901	577265	5659800	NAD27	21	B-horizon soil	83.8	47.5	128.6	45.4	1.0	
12905	578244	5660199	NAD27	21	B-horizon soil	1.0	25.7	86.6	1.0	18.9	
12906	578270	5660198	NAD27	21	B-horizon soil	1.0	30.3	73.9	16.4	1.0	
12907	578297	5660194	NAD27	21	B-horizon soil	1.0	86.0	312.4	31.2	1.0	
12909	578321	5660199	NAD27	21	B-horizon soil	1.0	41.5	210.6	1.0	1.0	
12910	578246	5660201	NAD27	21	B-horizon soil	1.0	37.6	277.4	9.5	1.0	
12911	578369	5660202	NAD27	21	B-horizon soil	1.0	48.1	60.7	12.7	1.0	
12912	578393	5660198	NAD27	21	B-horizon soil	1.0	49.1	575.8	23.5	1.0	
12913	578425	5660195	NAD27	21	B-horizon soil	1.0	23.0	98.7	10.0	1.0	
12914	578451	5660199	NAD27	21	B-horizon soil	1.0	12.2	27.4	1.0	1.0	
12915	578477	5660202	NAD27	21	B-horizon soil	1.0	11.1	55.6	12.7	17.0	
12916	578289	5660001	NAD27	21	B-horizon soil	1.0	20.2	50.8	12.8	12.2	
12917	578258	5660001	NAD27	21	B-horizon soil	65.7	36.5	86.0	25.2	1.0	
12918	578231	5660004	NAD27	21	B-horizon soil	33.0	22.7	78.9	29.4	14.5	
12919	578200	5659995	NAD27	21	B-horizon soil	1.0	28.2	69.7	1.0	14.2	
12920	578173	5660008	NAD27	21	B-horizon soil	1.0	16.6	80.0	7.4	17.4	
12921	578145	5660003	NAD27	21	B-horizon soil	65.9	116.4	275.8	30.3	1.0	
12922	578123	5660000	NAD27	21	B-horizon soil	1.0	22.5	77.8	1.0	20.6	
12923	577596	5659598	NAD27	21	B-horizon soil	1.0	20.8	85.7	12.6	16.1	
12924	577616	5659603	NAD27	21	B-horizon soil	1.0	109.9	108.6	1.0	17.7	
12925	577640	5659603	NAD27	21	B-horizon soil	33.4	31.2	109.7	1.0	1.0	
12926	577661	5659602	NAD27	21	B-horizon soil	1.0	20.8	84.1	1.0	31.7	
12927	577705	5659396	NAD27	21	B-horizon soil	40.9	28.8	103.3	47.5	12.1	

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Sample Number	UTM Easting	UTM Northing	Datum	Zone	Sample Medium	pXRF Cu(ppm)	pXRF Pb(ppm)	pXRF Zn(ppm)	pXRF As(ppm)	pXRF Sb(ppm)	Check Analysis - Certificate Reference
12928	577771	5659398	NAD27	21	B-horizon soil	1.0	21.2	55.6	11.0	15.7	
12929	577800	5659396	NAD27	21	B-horizon soil	1.0	22.2	31.0	12.8	1.0	
12930	577825	5659400	NAD27	21	B-horizon soil	1.0	21.0	52.6	15.0	1.0	
12931	577852	5659399	NAD27	21	B-horizon soil	1.0	33.6	118.7	26.2	1.0	
12932	577880	5659398	NAD27	21	B-horizon soil	1.0	30.1	100.5	22.6	1.0	
12933	577921	5659398	NAD27	21	B-horizon soil	1.0	25.8	69.9	9.6	1.0	
12934	577940	5659396	NAD27	21	B-horizon soil	1.0	41.7	133.2	20.3	1.0	
12935	577964	5659397	NAD27	21	B-horizon soil	1.0	16.0	49.7	10.7	14.0	
12937	578005	5659403	NAD27	21	B-horizon soil	1.0	21.6	41.5	14.0	16.4	
12938	578026	5659403	NAD27	21	B-horizon soil	1.0	22.1	62.5	9.2	1.0	
12939	577934	5659203	NAD27	21	B-horizon soil	1.0	27.8	61.6	1.0	31.3	
12940	577920	5659207	NAD27	21	B-horizon soil	1.0	34.8	217.2	32.4	1.0	
12941	577892	5659206	NAD27	21	B-horizon soil	1.0	54.5	325.1	35.8	1.0	
12942	577866	5659200	NAD27	21	B-horizon soil	1.0	15.6	56.6	15.9	1.0	
12943	577837	5659198	NAD27	21	B-horizon soil	1.0	23.9	109.3	16.2	16.1	
12944	577824	5659205	NAD27	21	B-horizon soil	1.0	29.4	96.5	13.9	1.0	
12945	577802	5659203	NAD27	21	B-horizon soil	1.0	47.5	173.8	10.1	1.0	
12946	577776	5659194	NAD27	21	B-horizon soil	1.0	23.2	57.1	17.5	1.0	
12947	577742	5659000	NAD27	21	B-horizon soil	1.0	18.3	63.1	9.0	11.5	
12948	577774	5659001	NAD27	21	B-horizon soil	1.0	20.8	49.6	17.0	1.0	
12949	577790	5658999	NAD27	21	B-horizon soil	1.0	23.2	71.6	15.1	1.0	
12950	577811	5658998	NAD27	21	B-horizon soil	1.0	34.5	197.0	26.2	1.0	
12951	577843	5659002	NAD27	21	B-horizon soil	1.0	40.9	133.1	27.7	1.0	
12952	577864	5659002	NAD27	21	B-horizon soil	1.0	19.6	86.1	38.9	1.0	
12953	577854	5658801	NAD27	21	B-horizon soil	47.6	20.6	95.4	15.5	16.8	
12954	577833	5658800	NAD27	21	B-horizon soil	1.0	23.2	20.2	28.5	1.0	
12955	577807	5658798	NAD27	21	B-horizon soil	33.0	31.8	52.8	37.4	1.0	
12956	577784	5658806	NAD27	21	B-horizon soil	1.0	21.5	62.5	12.7	1.0	
12957	577757	5658801	NAD27	21	B-horizon soil	1.0	23.3	102.3	1.0	1.0	
12958	577732	5658800	NAD27	21	B-horizon soil	1.0	32.1	97.4	9.3	1.0	
12959	577708	5658995	NAD27	21	B-horizon soil	43.9	27.0	116.5	21.0	1.0	
12960	577686	5658996	NAD27	21	B-horizon soil	1.0	22.2	92.2	1.0	1.0	
12961	577669	5659003	NAD27	21	B-horizon soil	1.0	25.5	100.9	17.8	1.0	
12962	577638	5659007	NAD27	21	B-horizon soil	32.6	1.0	63.9	26.1	1.0	
12963	577614	5658998	NAD27	21	B-horizon soil	1.0	21.1	36.5	23.7	1.0	
12964	577591	5659001	NAD27	21	B-horizon soil	102.0	40.7	168.9	30.0	1.0	
12965	577760	5658603	NAD27	21	B-horizon soil	1.0	18.9	87.2	20.4	1.0	
12966	577786	5658601	NAD27	21	B-horizon soil	1.0	22.4	52.9	24.2	1.0	
12967	577820	5658603	NAD27	21	B-horizon soil	1.0	39.5	70.2	34.1	11.4	
12968	577843	5658599	NAD27	21	B-horizon soil	1.0	34.3	58.6	17.0	1.0	
12969	577872	5658602	NAD27	21	B-horizon soil	29.5	38.5	106.3	37.5	1.0	
12970	577895	5658602	NAD27	21	B-horizon soil	1.0	25.8	70.9	18.7	1.0	
12971	577921	5658598	NAD27	21	B-horizon soil	1.0	27.2	74.2	22.8	1.0	
12972	577946	5658599	NAD27	21	B-horizon soil	1.0	13.7	36.5	9.6	14.4	
12973	577970	5658600	NAD27	21	B-horizon soil	1.0	33.5	53.6	27.7	1.0	
12974	577995	5658602	NAD27	21	B-horizon soil	1.0	30.5	32.7	20.9	1.0	
12975	578022	5658600	NAD27	21	B-horizon soil	1.0	22.0	43.2	16.7	1.0	
12976	578050	5658601	NAD27	21	B-horizon soil	1.0	49.2	68.3	20.5	1.0	
12977	578040	5658400	NAD27	21	B-horizon soil	1.0	24.9	114.2	168.6	1.0	
12978	578015	5658400	NAD27	21	B-horizon soil	1.0	27.4	244.8	20.0	1.0	
12979	577990	5658402	NAD27	21	B-horizon soil	1.0	54.2	110.3	38.1	1.0	
12980	577964	5658400	NAD27	21	B-horizon soil	53.9	35.0	99.1	20.3	1.0	
12981	577938	5658397	NAD27	21	B-horizon soil	1.0	20.7	84.8	19.8	1.0	
12982	577914	5658405	NAD27	21	B-horizon soil	1.0	21.7	56.9	14.7	1.0	
12983	577890	5658395	NAD27	21	B-horizon soil	1.0	16.2	49.2	12.5	1.0	
12984	577836	5658407	NAD27	21	B-horizon soil	1.0	21.3	56.2	1.0	1.0	
12985	577803	5658404	NAD27	21	B-horizon soil	1.0	19.0	42.7	13.4	1.0	
12986	577762	5658400	NAD27	21	B-horizon soil	1.0	21.5	65.1	30.7	1.0	
12987	577730	5658399	NAD27	21	B-horizon soil	1.0	21.8	45.6	15.2	1.0	
12988	577706	5658397	NAD27	21	B-horizon soil	1.0	41.4	140.1	29.8	1.0	

## Appendix 2: Sail Pond Soil Sample List

Sample Number	UTM Easting	UTM Northing	Datum	Zone	Sample Medium	pXRF Cu(ppm)	pXRF Pb(ppm)	pXRF Zn(ppm)	pXRF As(ppm)	pXRF Sb(ppm)	Check Analysis - Certificate Reference
12989	577679	5658401	NAD27	21	B-horizon soil	1.0	24.8	95.6	31.0	1.0	
12990	577649	5658404	NAD27	21	B-horizon soil	1.0	86.5	201.4	53.6	1.0	
12991	577625	5658399	NAD27	21	B-horizon soil	1.0	27.3	74.3	1.0	1.0	
12992	577596	5658403	NAD27	21	B-horizon soil	1.0	55.8	89.7	24.7	1.0	
12993	577570	5658399	NAD27	21	B-horizon soil	1.0	22.0	88.2	19.4	1.0	
12994	577549	5658402	NAD27	21	B-horizon soil	1.0	33.4	191.7	1.0	1.0	
12995	577521	5658403	NAD27	21	B-horizon soil	1.0	10.6	24.5	7.1	1.0	
12996	577504	5658399	NAD27	21	B-horizon soil	1.0	28.2	106.8	1.0	1.0	
13201	580609	5660697	NAD27	21	B-horizon soil	1.0	19.4	61.8	8.2	14.8	
13202	580581	5660701	NAD27	21	B-horizon soil	1.0	19.9	52.4	10.8	1.0	
13203	580557	5660698	NAD27	21	B-horizon soil	1.0	27.4	71.4	11.5	1.0	
13204	580533	5660705	NAD27	21	B-horizon soil	1.0	22.5	81.4	61.4	1.0	
13205	580510	5660707	NAD27	21	B-horizon soil	1.0	29.3	74.1	17.4	1.0	
13206	578986	5661700	NAD27	21	B-horizon soil	1.0	36.9	124.8	14.4	1.0	
13207	578949	5661702	NAD27	21	B-horizon soil	1.0	25.3	97.0	21.5	1.0	
13208	578930	5661704	NAD27	21	B-horizon soil	1.0	39.4	65.4	11.0	1.0	
13209	578904	5661701	NAD27	21	B-horizon soil	1.0	16.8	32.2	1.0	1.0	
13210	578874	5661702	NAD27	21	B-horizon soil	1.0	20.3	117.7	17.8	16.2	
13211	578856	5661697	NAD27	21	B-horizon soil	1.0	47.8	293.9	33.6	1.0	
13212	578830	5661694	NAD27	21	B-horizon soil	1.0	30.1	120.5	12.1	1.0	
13213	578807	5661703	NAD27	21	B-horizon soil	1.0	11.6	127.4	14.2	1.0	
13214	578781	5661704	NAD27	21	B-horizon soil	44.5	58.6	57.0	43.3	16.1	
13215	578752	5661705	NAD27	21	B-horizon soil	1.0	15.8	45.4	27.1	1.0	
13216	578720	5661695	NAD27	21	B-horizon soil	47.3	99.5	127.7	71.4	1.0	
13217	578700	5661705	NAD27	21	B-horizon soil	1.0	39.8	148.4	25.3	1.0	
13218	578677	5661704	NAD27	21	B-horizon soil	65.9	57.6	60.6	98.1	20.9	
13219	578654	5661702	NAD27	21	B-horizon soil	90.3	121.1	120.6	125.7	24.0	
13220	578631	5661696	NAD27	21	B-horizon soil	1.0	43.2	85.5	87.6	15.9	
13221	578606	5661703	NAD27	21	B-horizon soil	88.4	42.6	207.6	46.4	1.0	
13222	578577	5661694	NAD27	21	B-horizon soil	51.7	39.9	140.5	61.4	1.0	
13223	578550	5661704	NAD27	21	B-horizon soil	250.1	55.2	366.8	42.7	15.4	
13224	578527	5661700	NAD27	21	B-horizon soil	1.0	32.0	83.2	32.8	1.0	
13225	578493	5661694	NAD27	21	B-horizon soil	1.0	41.3	122.2	23.5	1.0	
13226	578462	5661706	NAD27	21	B-horizon soil	32.5	26.7	65.2	23.4	1.0	
13227	578430	5661703	NAD27	21	B-horizon soil	1.0	23.3	77.0	18.2	1.0	
13228	578402	5661700	NAD27	21	B-horizon soil	1.0	12.3	48.6	1.0	1.0	
13229	578375	5661702	NAD27	21	B-horizon soil	1.0	20.4	72.6	22.0	1.0	
13230	578345	5661699	NAD27	21	B-horizon soil	1.0	24.4	77.0	21.5	1.0	
13231	578315	5661700	NAD27	21	B-horizon soil	1.0	26.2	59.1	16.1	1.0	
13232	578296	5661701	NAD27	21	B-horizon soil	1.0	28.9	92.1	15.8	1.0	
13233	578261	5661696	NAD27	21	B-horizon soil	1.0	17.1	30.6	1.0	1.0	
13234	578231	5661697	NAD27	21	B-horizon soil	1.0	24.8	60.3	35.5	1.0	
13235	578203	5661698	NAD27	21	B-horizon soil	1.0	38.5	123.1	1.0	1.0	
13236	578283	5661898	NAD27	21	B-horizon soil	1.0	27.8	66.3	11.0	1.0	
13237	578306	5661900	NAD27	21	B-horizon soil	1.0	17.1	45.9	8.3	1.0	
13238	578336	5661901	NAD27	21	B-horizon soil	1.0	41.8	116.6	27.3	1.0	
13239	578381	5661904	NAD27	21	B-horizon soil	1.0	14.3	46.9	24.6	1.0	
13240	578409	5661900	NAD27	21	B-horizon soil	1.0	23.5	75.3	14.0	1.0	
13241	578429	5661907	NAD27	21	B-horizon soil	1.0	25.2	38.0	47.5	1.0	
13242	578453	5661899	NAD27	21	B-horizon soil	1.0	22.7	78.0	17.3	1.0	
13243	578482	5661894	NAD27	21	B-horizon soil	1.0	18.4	35.5	1.0	1.0	
13244	578506	5661898	NAD27	21	B-horizon soil	35.5	45.3	434.9	56.1	1.0	
13245	578555	5661899	NAD27	21	B-horizon soil	1.0	23.9	101.0	38.8	1.0	
13246	578581	5661902	NAD27	21	B-horizon soil	1.0	25.5	95.8	25.9	1.0	
13247	578601	5661906	NAD27	21	B-horizon soil	1.0	53.5	167.6	39.7	1.0	
13248	578633	5661899	NAD27	21	B-horizon soil	1.0	61.0	92.8	24.1	1.0	
13249	578662	5661892	NAD27	21	B-horizon soil	1181.2	73.3	302.5	71.2	17.1	
13250	578684	5661911	NAD27	21	B-horizon soil	77.3	387.9	167.7	66.2	1.0	
13251	578708	5661900	NAD27	21	B-horizon soil	47.6	126.2	230.7	30.3	14.8	
13252	578735	5661894	NAD27	21	B-horizon soil	1.0	30.0	110.0	27.7	1.0	

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Sample Number	UTM Easting	UTM Northing	Datum	Zone	Sample Medium	pXRF Cu(ppm)	pXRF Pb(ppm)	pXRF Zn(ppm)	pXRF As(ppm)	pXRF Sb(ppm)	Check Analysis - Certificate Reference
13253	578759	5661889	NAD27	21	B-horizon soil	1.0	69.7	119.9	32.1	11.5	
13254	578806	5661896	NAD27	21	B-horizon soil	43.0	46.3	247.7	109.7	1.0	
13255	578949	5661903	NAD27	21	B-horizon soil	1.0	39.4	118.5	46.4	1.0	
13256	578977	5661907	NAD27	21	B-horizon soil	42.1	65.9	83.1	57.2	1.0	
13257	578996	5661899	NAD27	21	B-horizon soil	1.0	43.4	119.2	21.7	1.0	
13258	579191	5662100	NAD27	21	B-horizon soil	1.0	37.0	76.0	13.9	1.0	
13259	579170	5662088	NAD27	21	B-horizon soil	1.0	39.5	229.1	11.7	1.0	
13260	579141	5662094	NAD27	21	B-horizon soil	1.0	18.8	38.1	22.3	1.0	
13261	579120	5662093	NAD27	21	B-horizon soil	1.0	20.5	68.4	12.7	13.6	
13262	579095	5662096	NAD27	21	B-horizon soil	1.0	26.1	59.6	1.0	21.0	
13263	579042	5662099	NAD27	21	B-horizon soil	1.0	11.8	30.7	19.2	1.0	
13264	579024	5662097	NAD27	21	B-horizon soil	1.0	25.4	97.3	8.7	1.0	
13265	578994	5662093	NAD27	21	B-horizon soil	1.0	64.0	152.0	46.0	1.0	
13266	578969	5662095	NAD27	21	B-horizon soil	1.0	33.9	79.6	25.0	1.0	
13267	578947	5662101	NAD27	21	B-horizon soil	1.0	10.8	40.4	22.6	1.0	
13268	578919	5662093	NAD27	21	B-horizon soil	1.0	31.4	88.7	21.8	1.0	
13269	578882	5662104	NAD27	21	B-horizon soil	1.0	28.4	53.2	38.2	1.0	
13270	578840	5662109	NAD27	21	B-horizon soil	48.4	38.7	145.0	43.3	1.0	
13271	578824	5662099	NAD27	21	B-horizon soil	1.0	63.0	116.2	43.7	1.0	
13272	578792	5662087	NAD27	21	B-horizon soil	1.0	106.8	165.0	36.3	1.0	
13273	578729	5662102	NAD27	21	B-horizon soil	34.9	105.9	179.7	43.8	19.8	
13274	578696	5662095	NAD27	21	B-horizon soil	82.6	59.6	129.0	32.7	1.0	
13275	578667	5662113	NAD27	21	B-horizon soil	1.0	38.9	97.1	26.7	1.0	
13276	578639	5662101	NAD27	21	B-horizon soil	1.0	110.0	154.6	95.9	1.0	
13277	578623	5662102	NAD27	21	B-horizon soil	1.0	22.9	64.7	40.5	1.0	
13278	578573	5662102	NAD27	21	B-horizon soil	1.0	32.9	168.0	18.7	1.0	
13279	578542	5662101	NAD27	21	B-horizon soil	1.0	20.6	105.1	30.5	1.0	
13280	578518	5662100	NAD27	21	B-horizon soil	1.0	25.4	79.9	23.4	1.0	
13281	578620	5662308	NAD27	21	B-horizon soil	37.5	27.6	69.1	55.8	1.0	
13282	578692	5662296	NAD27	21	B-horizon soil	164.2	818.1	727.5	71.0	1.0	
13283	578718	5662301	NAD27	21	B-horizon soil	1.0	40.6	46.2	39.2	1.0	
13284	578751	5662302	NAD27	21	B-horizon soil	79.8	467.3	408.2	94.1	1.0	
13285	578769	5662291	NAD27	21	B-horizon soil	1.0	45.9	27.1	11.6	1.0	
13286	578796	5662302	NAD27	21	B-horizon soil	119.1	170.1	364.9	54.7	1.0	
13287	578820	5662292	NAD27	21	B-horizon soil	73.5	405.2	148.2	81.5	1.0	
13288	578851	5662309	NAD27	21	B-horizon soil	123.5	740.9	878.1	69.4	1.0	
13289	578877	5662308	NAD27	21	B-horizon soil	1.0	63.4	297.9	20.0	1.0	
13290	578890	5662291	NAD27	21	B-horizon soil	1.0	41.3	92.4	22.6	1.0	
13291	578917	5662297	NAD27	21	B-horizon soil	1.0	41.3	122.6	20.3	1.0	
13292	578948	5662289	NAD27	21	B-horizon soil	1.0	24.3	83.5	12.4	1.0	
13293	578973	5662300	NAD27	21	B-horizon soil	1.0	34.4	73.1	31.1	1.0	
13294	578998	5662299	NAD27	21	B-horizon soil	1.0	36.3	191.7	28.3	1.0	
13295	579021	5662301	NAD27	21	B-horizon soil	1.0	33.0	179.1	18.3	1.0	
13296	579040	5662296	NAD27	21	B-horizon soil	1.0	53.1	94.2	29.0	1.0	
13297	579120	5662301	NAD27	21	B-horizon soil	1.0	32.7	66.8	17.9	1.0	
13298	579148	5662298	NAD27	21	B-horizon soil	1.0	17.0	51.5	10.0	1.0	
13299	579169	5662293	NAD27	21	B-horizon soil	1.0	13.2	73.6	14.2	1.0	
13300	579200	5662296	NAD27	21	B-horizon soil	1.0	21.2	23.4	10.3	1.0	
13301	579223	5662302	NAD27	21	B-horizon soil	1.0	1.0	29.8	13.2	14.9	
13302	579247	5662304	NAD27	21	B-horizon soil	1.0	57.0	117.9	31.5	1.0	
13303	579277	5662299	NAD27	21	B-horizon soil	1.0	17.9	43.3	19.4	1.0	
13304	579306	5662300	NAD27	21	B-horizon soil	1.0	33.2	55.7	16.4	1.0	
13305	579497	5662891	NAD27	21	B-horizon soil	1.0	15.4	43.9	45.8	1.0	
13306	579468	5662894	NAD27	21	B-horizon soil	1.0	34.0	46.0	25.2	1.0	
13307	579447	5662897	NAD27	21	B-horizon soil	1.0	34.2	90.5	16.8	1.0	
13308	579377	5662894	NAD27	21	B-horizon soil	1.0	35.8	76.7	23.0	1.0	
13309	579351	5662894	NAD27	21	B-horizon soil	1.0	1.0	14.6	8.0	16.4	
13310	579329	5662897	NAD27	21	B-horizon soil	1.0	25.7	134.8	1.0	1.0	
13311	579302	5662901	NAD27	21	B-horizon soil	1.0	16.9	60.4	14.4	1.0	
13312	579277	5662899	NAD27	21	B-horizon soil	1.0	41.1	74.3	1.0	1.0	

## Appendix 2: Sail Pond Soil Sample List

Sample Number	UTM Easting	UTM Northing	Datum	Zone	Sample Medium	pXRF Cu(ppm)	pXRF Pb(ppm)	pXRF Zn(ppm)	pXRF As(ppm)	pXRF Sb(ppm)	Check Analysis - Certificate Reference
13313	579251	5662903	NAD27	21	B-horizon soil	1.0	46.7	99.3	22.7	1.0	
13314	579221	5662898	NAD27	21	B-horizon soil	1.0	63.1	306.9	21.9	1.0	
13315	579198	5662898	NAD27	21	B-horizon soil	32.7	122.8	465.4	44.0	1.0	
13316	579174	5662898	NAD27	21	B-horizon soil	1.0	30.3	121.6	9.8	1.0	
13317	579156	5662897	NAD27	21	B-horizon soil	71.5	572.0	668.2	38.8	20.4	
13318	579126	5662897	NAD27	21	B-horizon soil	1.0	23.0	62.0	36.9	1.0	
13319	579100	5662903	NAD27	21	B-horizon soil	1.0	47.0	124.8	16.3	1.0	
13320	579005	5662899	NAD27	21	B-horizon soil	1.0	25.0	67.6	13.5	1.0	
13321	578974	5662896	NAD27	21	B-horizon soil	1.0	13.4	55.2	17.9	1.0	
13322	578950	5662898	NAD27	21	B-horizon soil	1.0	14.3	32.4	11.5	1.0	
13323	578926	5662896	NAD27	21	B-horizon soil	1.0	15.6	30.5	20.2	1.0	
13324	578898	5662907	NAD27	21	B-horizon soil	1.0	19.3	44.4	10.4	1.0	
13325	578876	5662898	NAD27	21	B-horizon soil	1.0	22.8	64.8	23.9	1.0	
13326	578849	5662904	NAD27	21	B-horizon soil	1.0	15.1	40.8	8.6	16.6	
13327	578655	5662502	NAD27	21	B-horizon soil	1.0	46.8	75.3	44.5	1.0	
13328	578683	5662497	NAD27	21	B-horizon soil	1.0	28.6	111.4	32.3	1.0	
13329	578704	5662498	NAD27	21	B-horizon soil	1.0	25.9	72.7	17.4	1.0	
13330	578732	5662497	NAD27	21	B-horizon soil	1.0	27.7	97.5	13.0	1.0	
13331	578757	5662498	NAD27	21	B-horizon soil	1.0	39.5	156.7	9.7	1.0	
13332	578786	5662495	NAD27	21	B-horizon soil	1.0	15.7	62.1	1.0	12.3	
13333	578805	5662507	NAD27	21	B-horizon soil	57.6	176.9	556.5	52.5	14.7	
13334	578829	5662498	NAD27	21	B-horizon soil	1.0	27.6	82.3	15.0	1.0	
13335	578855	5662502	NAD27	21	B-horizon soil	45.5	531.4	319.0	54.1	1.0	
13336	578881	5662505	NAD27	21	B-horizon soil	1.0	154.5	162.5	37.0	1.0	
13337	578901	5662500	NAD27	21	B-horizon soil	1.0	30.0	81.3	36.8	1.0	
13338	578931	5662500	NAD27	21	B-horizon soil	115.4	502.9	600.2	88.0	1.0	
13339	578948	5662498	NAD27	21	B-horizon soil	89.2	415.7	418.3	95.3	20.4	
13340	578981	5662500	NAD27	21	B-horizon soil	1.0	29.1	74.9	28.0	1.0	
13341	579029	5662498	NAD27	21	B-horizon soil	189.0	34.2	649.1	18.7	32.5	
13342	579077	5662499	NAD27	21	B-horizon soil	1.0	9.0	36.3	31.6	1.0	
13343	579106	5662500	NAD27	21	B-horizon soil	1.0	38.0	130.6	42.1	1.0	
13344	579130	5662497	NAD27	21	B-horizon soil	1.0	51.8	111.2	21.4	1.0	
13345	579402	5662496	NAD27	21	B-horizon soil	1.0	54.9	69.2	20.5	1.0	
13346	579374	5662504	NAD27	21	B-horizon soil	1.0	19.6	33.5	18.3	1.0	
13347	579342	5662491	NAD27	21	B-horizon soil	1.0	26.8	115.1	18.5	1.0	
13348	579316	5662507	NAD27	21	B-horizon soil	1.0	27.1	79.8	18.6	1.0	
13349	579290	5662499	NAD27	21	B-horizon soil	1.0	23.1	39.1	12.7	1.0	
13350	579268	5662497	NAD27	21	B-horizon soil	1.0	13.4	78.1	16.1	32.5	
13351	579247	5662580	NAD27	21	B-horizon soil	1.0	19.9	60.9	18.3	1.0	
13352	579320	5663295	NAD27	21	B-horizon soil	1.0	1.0	60.2	12.3	1.0	
13353	579297	5663299	NAD27	21	B-horizon soil	1.0	15.9	82.7	12.6	1.0	
13354	579234	5663299	NAD27	21	B-horizon soil	1.0	17.5	53.2	24.3	1.0	
13355	579160	5663303	NAD27	21	B-horizon soil	1.0	16.3	133.8	13.0	1.0	
13356	579128	5663302	NAD27	21	B-horizon soil	1.0	10.6	33.6	10.3	1.0	
13357	579094	5663301	NAD27	21	B-horizon soil	1.0	11.1	52.1	18.6	14.6	
13358	579073	5663300	NAD27	21	B-horizon soil	1.0	15.8	77.2	8.4	1.0	
13359	579039	5663297	NAD27	21	B-horizon soil	1.0	22.9	158.7	8.9	1.0	
13360	579020	5663301	NAD27	21	B-horizon soil	1.0	12.3	74.3	15.6	16.7	
13361	578990	5663300	NAD27	21	B-horizon soil	1.0	13.8	45.7	13.4	19.4	
13362	578976	5663299	NAD27	21	B-horizon soil	32.5	20.2	78.7	18.3	1.0	
13363	578943	5663296	NAD27	21	B-horizon soil	1.0	14.7	57.0	11.0	13.1	
13364	578920	5663298	NAD27	21	B-horizon soil	1.0	27.5	44.2	1.0	12.3	
13365	578887	5663292	NAD27	21	B-horizon soil	1.0	28.7	96.1	20.1	1.0	
13366	578860	5663097	NAD27	21	B-horizon soil	1.0	10.4	34.8	15.7	1.0	
13367	578902	5663107	NAD27	21	B-horizon soil	1.0	19.7	37.0	8.5	1.0	
13368	578911	5663102	NAD27	21	B-horizon soil	1.0	37.1	81.1	29.8	1.0	
13369	578939	5663095	NAD27	21	B-horizon soil	1.0	26.9	47.7	1.0	1.0	
13370	578970	5663101	NAD27	21	B-horizon soil	1.0	43.2	85.6	30.0	1.0	
13371	578989	5663100	NAD27	21	B-horizon soil	1.0	43.4	226.9	49.1	1.0	
13372	579009	5663101	NAD27	21	B-horizon soil	1.0	16.0	40.5	29.3	1.0	

## Appendix 2: Sail Pond Soil Sample List

Sample Number	UTM Easting	UTM Northing	Datum	Zone	Sample Medium	pXRF Cu(ppm)	pXRF Pb(ppm)	pXRF Zn(ppm)	pXRF As(ppm)	pXRF Sb(ppm)	Check Analysis - Certificate Reference
13373	579035	5663107	NAD27	21	B-horizon soil	1.0	20.6	99.2	43.5	1.0	
13374	579063	5663102	NAD27	21	B-horizon soil	1.0	32.3	63.9	28.1	1.0	
13375	579088	5663103	NAD27	21	B-horizon soil	1.0	33.8	129.5	12.7	12.0	
13376	579286	5663100	NAD27	21	B-horizon soil	1.0	25.5	38.8	41.0	1.0	
13377	579312	5663090	NAD27	21	B-horizon soil	1.0	22.2	60.0	19.5	1.0	
13378	579349	5663106	NAD27	21	B-horizon soil	1.0	49.9	129.2	26.6	1.0	
13379	579363	5663098	NAD27	21	B-horizon soil	1.0	33.5	68.7	21.9	1.0	
13380	579397	5663103	NAD27	21	B-horizon soil	1.0	18.0	38.1	16.6	1.0	
13381	579422	5663100	NAD27	21	B-horizon soil	1.0	28.4	118.8	20.2	1.0	
13382	579447	5663106	NAD27	21	B-horizon soil	1.0	29.2	91.0	15.6	1.0	
13383	579463	5663097	NAD27	21	B-horizon soil	1.0	20.4	41.4	13.5	1.0	
13384	579489	5663105	NAD27	21	B-horizon soil	1.0	19.1	31.9	1.0	1.0	
13385	577801	5658300	NAD27	21	B-horizon soil	1.0	24.7	48.0	10.1	1.0	
13386	577769	5658302	NAD27	21	B-horizon soil	1.0	31.0	93.9	22.5	1.0	
13387	577730	5658297	NAD27	21	B-horizon soil	1.0	28.1	122.4	13.8	1.0	
13388	577698	5658300	NAD27	21	B-horizon soil	1.0	17.6	46.6	1.0	17.4	
13389	577666	5658300	NAD27	21	B-horizon soil	1.0	12.7	24.8	22.4	1.0	
13390	577639	5658305	NAD27	21	B-horizon soil	1.0	10.9	22.7	1.0	1.0	
13391	577613	5658309	NAD27	21	B-horizon soil	1.0	18.2	85.4	12.5	1.0	
13392	577581	5658300	NAD27	21	B-horizon soil	1.0	9.9	22.0	17.2	1.0	
13393	577553	5658300	NAD27	21	B-horizon soil	1.0	13.4	52.0	12.7	1.0	
13394	577520	5658300	NAD27	21	B-horizon soil	1.0	15.1	35.6	1.0	1.0	
13395	577498	5658295	NAD27	21	B-horizon soil	1.0	217.1	291.9	46.5	1.0	
13396	577463	5658297	NAD27	21	B-horizon soil	1.0	22.8	70.3	9.3	1.0	
13397	577422	5658300	NAD27	21	B-horizon soil	28.5	44.4	73.9	16.5	1.0	
13398	577389	5658295	NAD27	21	B-horizon soil	1.0	30.6	101.5	10.0	1.0	
13399	577356	5658298	NAD27	21	B-horizon soil	1.0	21.0	85.6	1.0	1.0	
13400	577313	5658295	NAD27	21	B-horizon soil	1.0	23.8	87.7	1.0	1.0	
13401	577285	5658307	NAD27	21	B-horizon soil	29.3	23.9	52.7	25.6	1.0	
13402	577256	5658293	NAD27	21	B-horizon soil	1.0	16.1	32.6	23.6	1.0	
13403	577225	5658265	NAD27	21	B-horizon soil	1.0	11.5	31.5	7.4	1.0	
13404	576995	5658300	NAD27	21	B-horizon soil	1.0	30.2	118.9	32.1	1.0	
13405	576969	5658295	NAD27	21	B-horizon soil	1.0	1.0	54.4	10.5	1.0	
13406	576937	5658305	NAD27	21	B-horizon soil	1.0	42.5	88.6	37.3	1.0	
13407	576896	5658298	NAD27	21	B-horizon soil	1.0	23.3	114.8	13.2	1.0	
13408	576865	5658306	NAD27	21	B-horizon soil	1.0	63.3	237.4	1.0	1.0	
13409	576834	5658304	NAD27	21	B-horizon soil	1.0	33.9	57.6	11.3	1.0	
13410	576795	5658305	NAD27	21	B-horizon soil	1.0	19.6	74.4	1.0	14.0	
13411	576725	5658320	NAD27	21	B-horizon soil	1.0	1.0	40.1	11.0	1.0	
13412	576685	5658304	NAD27	21	B-horizon soil	1.0	18.6	72.4	38.5	1.0	
13413	576652	5658302	NAD27	21	B-horizon soil	1.0	40.6	129.7	1.0	1.0	
13414	576615	5658304	NAD27	21	B-horizon soil	1.0	22.6	61.5	1.0	1.0	
13415	576599	5658300	NAD27	21	B-horizon soil	1.0	1.0	46.6	18.6	1.0	
13416	577725	5659100	NAD27	21	B-horizon soil	1.0	17.0	65.3	28.6	1.0	
13417	577702	5659100	NAD27	21	B-horizon soil	1.0	16.0	35.2	16.4	1.0	
13418	577674	5659105	NAD27	21	B-horizon soil	1.0	11.8	34.5	1.0	1.0	
13419	577646	5659100	NAD27	21	B-horizon soil	1.0	13.0	17.8	1.0	1.0	
13420	577622	5659100	NAD27	21	B-horizon soil	1.0	12.8	29.3	9.5	1.0	
13421	577752	5659100	NAD27	21	B-horizon soil	1.0	22.5	104.4	14.3	1.0	
13422	577776	5659100	NAD27	21	B-horizon soil	1.0	23.5	44.7	14.6	1.0	
13423	577807	5659104	NAD27	21	B-horizon soil	1.0	16.0	47.0	13.9	12.3	
13424	577843	5659100	NAD27	21	B-horizon soil	28.9	21.4	64.7	25.7	1.0	
13425	577875	5659104	NAD27	21	B-horizon soil	1.0	36.0	91.6	25.6	1.0	
13426	577904	5659100	NAD27	21	B-horizon soil	1.0	37.8	93.6	11.2	1.0	
13427	577929	5659098	NAD27	21	B-horizon soil	1.0	29.1	94.1	23.1	1.0	
13428	575033	5652000	NAD27	21	B-horizon soil	1.0	13.0	84.7	7.9	1.0	
13429	575061	5652000	NAD27	21	B-horizon soil	1.0	10.7	22.1	1.0	1.0	
13430	575093	5652000	NAD27	21	B-horizon soil	1.0	1.0	44.3	7.4	1.0	
13431	575130	5651995	NAD27	21	B-horizon soil	1.0	25.6	122.7	15.2	1.0	
13432	575150	5652008	NAD27	21	B-horizon soil	1.0	17.0	44.5	19.5	1.0	



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Sample Number	UTM Easting	UTM Northing	Datum	Zone	Sample Medium	pXRF Cu(ppm)	pXRF Pb(ppm)	pXRF Zn(ppm)	pXRF As(ppm)	pXRF Sb(ppm)	Check Analysis - Certificate Reference
13433	575181	5652006	NAD27	21	B-horizon soil	1.0	29.7	88.1	1.0	1.0	
13434	575076	5651800	NAD27	21	B-horizon soil	1.0	28.2	47.1	8.5	1.0	
13435	575050	5651800	NAD27	21	B-horizon soil	1.0	17.1	104.5	20.0	1.0	
13436	575020	5651800	NAD27	21	B-horizon soil	1.0	28.3	84.6	8.7	1.0	
13437	574487	5651800	NAD27	21	B-horizon soil	1.0	9.2	38.7	9.2	1.0	
13438	574953	5651800	NAD27	21	B-horizon soil	1.0	20.7	147.9	14.8	1.0	
13439	574922	5651802	NAD27	21	B-horizon soil	1.0	117.1	124.2	19.3	1.0	
13440	574888	5651800	NAD27	21	B-horizon soil	1.0	13.0	11.7	14.5	1.0	
13441	574850	5651800	NAD27	21	B-horizon soil	1.0	16.9	71.1	9.4	1.0	
13442	574821	5651803	NAD27	21	B-horizon soil	1.0	24.2	59.9	1.0	1.0	
13443	574788	5651795	NAD27	21	B-horizon soil	1.0	16.8	165.2	10.2	1.0	
13444	574759	5651805	NAD27	21	B-horizon soil	1.0	41.4	143.8	14.4	1.0	
13445	574720	5651800	NAD27	21	B-horizon soil	1.0	23.2	77.1	16.1	1.0	
13447	574678	5651798	NAD27	21	B-horizon soil	1.0	10.4	53.3	19.2	1.0	
13448	574645	5651804	NAD27	21	B-horizon soil	1.0	20.1	37.1	1.0	1.0	
13449	574607	5651798	NAD27	21	B-horizon soil	1.0	22.8	62.6	8.7	1.0	
13450	574648	5651998	NAD27	21	B-horizon soil	1.0	27.2	56.7	15.7	1.0	
13451	574673	5651996	NAD27	21	B-horizon soil	1.0	28.6	163.2	51.5	12.0	
13452	574705	5651998	NAD27	21	B-horizon soil	1.0	52.8	284.4	13.1	1.0	
13453	574735	5652000	NAD27	21	B-horizon soil	1.0	52.1	165.2	13.9	1.0	
13454	574766	5651998	NAD27	21	B-horizon soil	1.0	31.2	141.6	29.3	1.0	
13455	574810	5652004	NAD27	21	B-horizon soil	1.0	19.6	41.0	1.0	1.0	
13456	574845	5652001	NAD27	21	B-horizon soil	1.0	46.0	123.4	12.2	1.0	
13457	574884	5651990	NAD27	21	B-horizon soil	37.7	27.2	84.3	15.5	1.0	
13458	574909	5652002	NAD27	21	B-horizon soil	1.0	13.7	42.8	11.4	1.0	
13459	574940	5652002	NAD27	21	B-horizon soil	1.0	13.3	19.7	1.0	1.0	
13460	574968	5651999	NAD27	21	B-horizon soil	1.0	103.4	187.7	27.3	1.0	
13461	574995	5651998	NAD27	21	B-horizon soil	36.5	61.6	243.9	40.7	1.0	
13462	574850	5652200	NAD27	21	B-horizon soil	1.0	23.3	75.9	15.6	1.0	
13464	574881	5652200	NAD27	21	B-horizon soil	1.0	11.4	56.3	1.0	1.0	
13465	574913	5652200	NAD27	21	B-horizon soil	1.0	18.3	108.2	13.5	1.0	
13466	574944	5652200	NAD27	21	B-horizon soil	1.0	22.2	27.5	1.0	1.0	
13467	574981	5652200	NAD27	21	B-horizon soil	1.0	17.0	62.4	7.8	1.0	
13468	575019	5652200	NAD27	21	B-horizon soil	40.5	66.3	310.7	24.2	1.0	
13469	575052	5652198	NAD27	21	B-horizon soil	1.0	15.5	61.4	11.5	11.2	
13470	575075	5652198	NAD27	21	B-horizon soil	1.0	47.7	515.8	23.6	1.0	
13471	575100	5652204	NAD27	21	B-horizon soil	1.0	10.6	30.9	1.0	1.0	
13472	575135	5652200	NAD27	21	B-horizon soil	1.0	17.5	103.1	12.1	1.0	
13473	575165	5652203	NAD27	21	B-horizon soil	1.0	20.4	86.4	1.0	1.0	
13474	575193	5652200	NAD27	21	B-horizon soil	1.0	37.1	127.1	15.3	1.0	
13475	575225	5652198	NAD27	21	B-horizon soil	1.0	32.5	220.0	26.7	15.1	
13476	575250	5652200	NAD27	21	B-horizon soil	1.0	9.8	41.2	13.9	1.0	
13477	575278	5652200	NAD27	21	B-horizon soil	1.0	14.1	61.6	19.4	1.0	
13478	575225	5652197	NAD27	21	B-horizon soil	1.0	31.4	40.9	11.1	1.0	
13479	575320	5652400	NAD27	21	B-horizon soil	1.0	21.3	40.1	1.0	12.7	
13480	575351	5652400	NAD27	21	B-horizon soil	1.0	56.7	95.9	32.8	1.0	
13481	575316	5652395	NAD27	21	B-horizon soil	1.0	24.7	76.4	27.6	1.0	
13482	575283	5652402	NAD27	21	B-horizon soil	1.0	303.3	337.1	28.2	1.0	
13483	575250	5652400	NAD27	21	B-horizon soil	1.0	55.2	93.7	14.0	1.0	
13484	575223	5652400	NAD27	21	B-horizon soil	1.0	242.1	342.3	25.1	1.0	
13485	575195	5652400	NAD27	21	B-horizon soil	32.5	1490.4	865.7	147.6	1.0	
13486	574825	5652200	NAD27	21	B-horizon soil	1.0	22.2	68.4	16.8	1.0	
13487	574794	5652200	NAD27	21	B-horizon soil	1.0	28.6	55.6	19.1	1.0	
13488	575497	5652800	NAD27	21	B-horizon soil	1.0	54.6	418.5	36.1	16.8	
13489	575450	5652800	NAD27	21	B-horizon soil	1.0	20.1	64.6	27.0	1.0	
13490	575425	5652800	NAD27	21	B-horizon soil	187.9	49.1	1096.5	37.9	14.5	
13491	575390	5652805	NAD27	21	B-horizon soil	1.0	32.3	119.7	10.1	1.0	
13492	575350	5652800	NAD27	21	B-horizon soil	1.0	122.2	207.0	18.0	1.0	
13493	575320	5652800	NAD27	21	B-horizon soil	1.0	551.2	401.8	1.0	1.0	
13494	575290	5652800	NAD27	21	B-horizon soil	1.0	55.3	134.7	30.4	1.0	

Appendix 2: Sail Pond Soil Sample List

Sample Number	UTM Easting	UTM Northing	Datum	Zone	Sample Medium	pXRF Cu(ppm)	pXRF Pb(ppm)	pXRF Zn(ppm)	pXRF As(ppm)	pXRF Sb(ppm)	Check Analysis - Certificate Reference
13495	575260	5652800	NAD27	21	B-horizon soil	1.0	32.8	152.4	22.0	1.0	
13496	575225	5652800	NAD27	21	B-horizon soil	1.0	1.0	40.3	9.7	1.0	
13497	575192	5652800	NAD27	21	B-horizon soil	1.0	9.1	52.3	9.7	1.0	
13498	575160	5652800	NAD27	21	B-horizon soil	1.0	176.6	215.2	42.3	22.5	
13499	575120	5652800	NAD27	21	B-horizon soil	1.0	38.2	28.1	1.0	19.8	
13500	575099	5652798	NAD27	21	B-horizon soil	1.0	76.9	190.6	20.6	1.0	
13501	575034	5652800	NAD27	21	B-horizon soil	1.0	50.5	95.6	27.9	1.0	
13502	576099	5652800	NAD27	21	B-horizon soil	1.0	33.6	123.5	15.1	1.0	
13503	574900	5652600	NAD27	21	B-horizon soil	1.0	17.4	102.3	11.1	1.0	
13504	574930	5652600	NAD27	21	B-horizon soil	1.0	22.1	109.9	1.0	1.0	
13505	574952	5652600	NAD27	21	B-horizon soil	1.0	29.6	118.1	9.2	1.0	
13506	574982	5652598	NAD27	21	B-horizon soil	1.0	1.0	19.8	1.0	1.0	
13507	575014	5652600	NAD27	21	B-horizon soil	1.0	22.1	62.9	15.1	11.9	
13508	575045	5652600	NAD27	21	B-horizon soil	1.0	9.9	54.3	7.9	1.0	
13509	575080	5652600	NAD27	21	B-horizon soil	1.0	29.1	68.6	1.0	1.0	
13510	575110	5652600	NAD27	21	B-horizon soil	1.0	10.5	24.6	1.0	1.0	
13511	575144	5652600	NAD27	21	B-horizon soil	1.0	31.2	89.9	11.6	1.0	
13512	575180	5652600	NAD27	21	B-horizon soil	1.0	21.8	188.5	11.5	1.0	
13513	575210	5652600	NAD27	21	B-horizon soil	1.0	19.4	170.3	23.4	1.0	
13514	575240	5652600	NAD27	21	B-horizon soil	1.0	120.2	179.5	34.5	1.0	
13515	575265	5652596	NAD27	21	B-horizon soil	104.2	405.2	926.3	124.1	1.0	
13516	575318	5652598	NAD27	21	B-horizon soil	1.0	84.0	348.9	21.6	1.0	
13517	575347	5652600	NAD27	21	B-horizon soil	1.0	66.2	117.6	25.5	1.0	
13518	575370	5652600	NAD27	21	B-horizon soil	1.0	56.5	259.5	16.7	13.2	
13519	575395	5652597	NAD27	21	B-horizon soil	83.2	131.5	1059.6	51.5	1.0	
13520	575432	5652600	NAD27	21	B-horizon soil	1.0	9.3	35.0	1.0	1.0	
13521	575165	5652402	NAD27	21	B-horizon soil	1.0	36.3	145.1	9.6	1.0	
13522	575071	5652403	NAD27	21	B-horizon soil	1.0	39.2	177.0	11.3	1.0	
13523	575047	5652400	NAD27	21	B-horizon soil	46.8	73.8	295.0	23.5	1.0	
13524	575018	5652398	NAD27	21	B-horizon soil	1.0	12.4	96.0	12.5	1.0	
13525	574982	5652400	NAD27	21	B-horizon soil	1.0	16.4	41.4	1.0	1.0	
13526	574954	5652402	NAD27	21	B-horizon soil	1.0	39.8	131.6	1.0	1.0	
13527	574930	5652400	NAD27	21	B-horizon soil	1.0	16.4	48.1	1.0	1.0	
13528	574903	5652402	NAD27	21	B-horizon soil	1.0	21.7	59.4	8.9	1.0	
13529	574878	5652400	NAD27	21	B-horizon soil	1.0	17.0	58.2	12.3	1.0	
13530	575598	5652998	NAD27	21	B-horizon soil	1.0	44.8	109.6	19.0	1.0	
13531	575574	5653000	NAD27	21	B-horizon soil	1.0	20.8	61.7	18.0	12.7	
13532	575543	5653000	NAD27	21	B-horizon soil	1.0	27.3	64.4	23.1	1.0	
13533	575502	5653000	NAD27	21	B-horizon soil	1.0	77.6	738.1	26.0	23.0	
13534	575410	5653000	NAD27	21	B-horizon soil	1.0	181.2	301.9	28.6	1.0	
13535	575440	5653000	NAD27	21	B-horizon soil	1.0	35.6	183.4	45.1	1.0	
13536	575400	5653000	NAD27	21	B-horizon soil	1.0	41.4	144.1	51.6	1.0	
13537	575375	5653000	NAD27	21	B-horizon soil	1.0	50.0	95.1	31.9	14.7	
13538	575345	5653000	NAD27	21	B-horizon soil	1.0	67.7	158.5	34.6	34.8	
13539	575318	5653000	NAD27	21	B-horizon soil	1.0	313.5	421.4	35.0	17.8	
13540	575289	5653000	NAD27	21	B-horizon soil	1.0	4282.7	553.4	814.6	42.2	
13541	575250	5653000	NAD27	21	B-horizon soil	152.2	502.4	2148.3	219.5	20.3	
13542	575219	5653000	NAD27	21	B-horizon soil	1.0	51.6	100.8	14.7	1.0	
13543	575190	5653000	NAD27	21	B-horizon soil	1.0	75.3	264.1	17.7	1.0	
13544	575160	5653000	NAD27	21	B-horizon soil	1.0	28.2	183.7	24.1	1.0	
13545	575136	5653000	NAD27	21	B-horizon soil	1.0	29.4	106.5	36.7	1.0	
13546	575100	5653000	NAD27	21	B-horizon soil	1.0	31.4	74.0	9.9	1.0	
13547	575250	5653200	NAD27	21	B-horizon soil	1.0	19.1	63.1	13.4	1.0	
13548	575275	5653200	NAD27	21	B-horizon soil	1.0	34.3	1454.7	101.1	17.1	
13549	575310	5653204	NAD27	21	B-horizon soil	364.2	59.2	1488.8	64.0	1.0	
13550	575330	5653190	NAD27	21	B-horizon soil	1.0	14.0	60.9	10.5	11.4	
13551	575380	5653200	NAD27	21	B-horizon soil	1.0	21.2	181.2	23.8	1.0	
13552	575410	5653197	NAD27	21	B-horizon soil	1.0	9.7	22.2	1.0	1.0	
13553	575445	5653195	NAD27	21	B-horizon soil	219.8	481.4	2953.1	175.9	16.9	
13554	575471	5653195	NAD27	21	B-horizon soil	30.0	54.4	377.9	17.6	1.0	

## Appendix 2: Sail Pond Soil Sample List

Sample Number	UTM Easting	UTM Northing	Datum	Zone	Sample Medium	pXRF Cu(ppm)	pXRF Pb(ppm)	pXRF Zn(ppm)	pXRF As(ppm)	pXRF Sb(ppm)	Check Analysis - Certificate Reference
13555	575510	5653200	NAD27	21	B-horizon soil	56.6	30.2	320.7	52.4	1.0	
13556	575530	5653205	NAD27	21	B-horizon soil	66.2	99.5	963.8	140.0	11.7	
13557	575564	5653196	NAD27	21	B-horizon soil	1.0	11.0	67.9	9.0	1.0	
13558	575591	5653200	NAD27	21	B-horizon soil	82.3	421.9	1812.3	70.8	1.0	
13564	575615	5653195	NAD27	21	B-horizon soil	1.0	1.0	19.3	44.7	1.0	
13565	575640	5653197	NAD27	21	B-horizon soil	1.0	25.3	121.0	22.2	1.0	
13566	575672	5653200	NAD27	21	B-horizon soil	1.0	33.3	115.0	12.6	1.0	
13567	575700	5653190	NAD27	21	B-horizon soil	1.0	27.9	149.8	18.8	1.0	
13568	577710	5658590	NAD27	21	B-horizon soil	1.0	29.1	102.2	15.7	1.0	
13569	577684	5658600	NAD27	21	B-horizon soil	1.0	16.5	51.4	10.1	1.0	
13570	577655	5658600	NAD27	21	B-horizon soil	1.0	13.0	33.5	8.9	1.0	
13571	577617	5658600	NAD27	21	B-horizon soil	1.0	11.5	39.7	1.0	1.0	
13572	577590	5658598	NAD27	21	B-horizon soil	31.5	34.0	86.7	22.8	1.0	
13573	577535	5658600	NAD27	21	B-horizon soil	1.0	8.3	16.4	1.0	1.0	
13574	577497	5658600	NAD27	21	B-horizon soil	1.0	29.7	52.2	8.8	1.0	
13577	577468	5658600	NAD27	21	B-horizon soil	1.0	21.9	82.3	20.2	12.3	
13578	577429	5658600	NAD27	21	B-horizon soil	1.0	9.6	34.9	9.3	1.0	
13579	577391	5658600	NAD27	21	B-horizon soil	74.0	29.5	308.1	32.9	1.0	
13580	577363	5658600	NAD27	21	B-horizon soil	1.0	11.1	34.5	14.2	1.0	
13581	577332	5658604	NAD27	21	B-horizon soil	1.0	14.3	60.6	23.9	1.0	
13582	577548	5658800	NAD27	21	B-horizon soil	1.0	21.3	71.7	15.0	1.0	
13583	577575	5658800	NAD27	21	B-horizon soil	1.0	16.4	37.5	34.4	1.0	
13584	577606	5658790	NAD27	21	B-horizon soil	1.0	37.0	83.8	18.7	1.0	
13585	577639	5658798	NAD27	21	B-horizon soil	45.9	32.4	110.2	17.8	1.0	
13586	577678	5658790	NAD27	21	B-horizon soil	1.0	9.7	81.3	1.0	1.0	
13587	577695	5658805	NAD27	21	B-horizon soil	1.0	24.9	103.6	20.3	1.0	
13588	579225	5662207	NAD27	21	B-horizon soil	1.0	30.3	34.9	26.6	1.0	
13589	579198	5662147	NAD27	21	B-horizon soil	1.0	15.1	27.2	10.2	19.0	
13590	579173	5662190	NAD27	21	B-horizon soil	1.0	14.8	13.9	10.8	1.0	
13591	579144	5662197	NAD27	21	B-horizon soil	1.0	15.1	22.6	19.2	1.0	
13592	579116	5662205	NAD27	21	B-horizon soil	1.0	10.8	26.1	17.3	1.0	
13593	579100	5662187	NAD27	21	B-horizon soil	1.0	21.5	62.5	14.2	1.0	
13594	579078	5662197	NAD27	21	B-horizon soil	1.0	25.2	37.8	16.9	1.0	
13595	579002	5662199	NAD27	21	B-horizon soil	1.0	19.0	41.3	15.7	1.0	
13596	578971	5662194	NAD27	21	B-horizon soil	1.0	43.2	107.4	17.8	1.0	
13597	578950	5662199	NAD27	21	B-horizon soil	1.0	16.4	14.0	31.1	1.0	
13598	578923	5662200	NAD27	21	B-horizon soil	1.0	25.9	73.8	36.7	1.0	
13599	578837	5662199	NAD27	21	B-horizon soil	33.7	114.1	218.8	26.8	1.0	
13600	578801	5662196	NAD27	21	B-horizon soil	31.6	64.3	170.2	33.0	1.0	
13601	578775	5662203	NAD27	21	B-horizon soil	1.0	45.1	51.6	21.6	1.0	
13602	578745	5662202	NAD27	21	B-horizon soil	1.0	18.2	66.3	30.6	15.2	
13603	578728	5662200	NAD27	21	B-horizon soil	1.0	27.2	95.5	32.0	23.0	
13604	578696	5662199	NAD27	21	B-horizon soil	1.0	26.1	56.0	31.7	15.5	
13605	578673	5662195	NAD27	21	B-horizon soil	36.2	83.2	64.0	54.8	1.0	
13606	578649	5662207	NAD27	21	B-horizon soil	1.0	47.5	121.9	20.4	1.0	
13608	578599	5662203	NAD27	21	B-horizon soil	1.0	11.0	40.3	9.4	1.0	
13609	578569	5662202	NAD27	21	B-horizon soil	31.0	41.8	76.0	34.7	1.0	
13610	578546	5662203	NAD27	21	B-horizon soil	1.0	36.6	272.5	18.0	1.0	
13611	578522	5662207	NAD27	21	B-horizon soil	1.0	26.2	67.2	49.6	1.0	
13612	578496	5662204	NAD27	21	B-horizon soil	1.0	15.7	36.2	10.6	21.4	
13613	578475	5662204	NAD27	21	B-horizon soil	1.0	14.6	33.6	11.6	1.0	
13614	578449	5662198	NAD27	21	B-horizon soil	1.0	20.4	91.5	20.6	23.3	
13615	578402	5662001	NAD27	21	B-horizon soil	1.0	18.9	48.4	14.8	20.2	
13616	578426	5662000	NAD27	21	B-horizon soil	1.0	18.4	44.8	14.0	1.0	
13617	578453	5661997	NAD27	21	B-horizon soil	1.0	32.3	41.9	12.8	1.0	
13618	578497	5661994	NAD27	21	B-horizon soil	1.0	61.9	123.9	30.6	1.0	
13619	578523	5661993	NAD27	21	B-horizon soil	1.0	9.0	35.9	10.1	1.0	
13622	578555	5661994	NAD27	21	B-horizon soil	1.0	38.0	167.9	43.5	12.0	
13623	578578	5661991	NAD27	21	B-horizon soil	1.0	34.7	102.2	33.5	1.0	
13624	578614	5662008	NAD27	21	B-horizon soil	1.0	73.6	119.8	57.5	1.0	

Appendix 2: Sail Pond Soil Sample List

Sample Number	UTM Easting	UTM Northing	Datum	Zone	Sample Medium	pXRF Cu(ppm)	pXRF Pb(ppm)	pXRF Zn(ppm)	pXRF As(ppm)	pXRF Sb(ppm)	Check Analysis - Certificate Reference
13625	578638	5662002	NAD27	21	B-horizon soil	1.0	22.5	27.3	27.7	1.0	
13626	578659	5661999	NAD27	21	B-horizon soil	60.8	105.5	185.6	32.1	1.0	
13627	578709	5661993	NAD27	21	B-horizon soil	1.0	63.0	125.9	35.8	12.5	
13628	578737	5661994	NAD27	21	B-horizon soil	68.9	50.4	94.5	13.0	20.2	
13629	578851	5662005	NAD27	21	B-horizon soil	1.0	19.4	27.5	18.0	1.0	
13630	578874	5661999	NAD27	21	B-horizon soil	1.0	79.0	87.3	43.6	1.0	
13631	578886	5662004	NAD27	21	B-horizon soil	1.0	39.7	153.3	28.3	1.0	
13632	578907	5661996	NAD27	21	B-horizon soil	1.0	40.9	96.0	33.5	1.0	
13633	578929	5662004	NAD27	21	B-horizon soil	1.0	28.8	141.5	23.9	1.0	
13634	578952	5661999	NAD27	21	B-horizon soil	1.0	26.3	74.6	16.0	1.0	
13635	579133	5662002	NAD27	21	B-horizon soil	1.0	12.6	18.1	1.0	1.0	
13636	579177	5661997	NAD27	21	B-horizon soil	1.0	50.2	156.1	36.2	1.0	
13637	577945	5660398	NAD27	21	B-horizon soil	127.1	33.1	145.1	12.9	1.0	
13638	577978	5660396	NAD27	21	B-horizon soil	74.3	284.9	481.1	20.4	1.0	
13639	578003	5660401	NAD27	21	B-horizon soil	1.0	172.2	250.0	25.2	1.0	
13640	578036	5660395	NAD27	21	B-horizon soil	1.0	52.7	132.2	16.8	1.0	
13641	578067	5660400	NAD27	21	B-horizon soil	71.3	147.5	318.8	60.3	13.8	
13642	578098	5660397	NAD27	21	B-horizon soil	1.0	35.6	64.2	1.0	12.7	
13643	578126	5660400	NAD27	21	B-horizon soil	1.0	66.9	132.9	48.7	1.0	
13644	578155	5660402	NAD27	21	B-horizon soil	1.0	67.4	691.8	29.7	1.0	
13645	578180	5660397	NAD27	21	B-horizon soil	108.7	66.5	372.3	82.6	14.2	
13646	578204	5660400	NAD27	21	B-horizon soil	1.0	17.2	48.2	10.8	11.2	
13647	578262	5660404	NAD27	21	B-horizon soil	1.0	25.7	57.8	9.2	15.3	
13648	578284	5660398	NAD27	21	B-horizon soil	1.0	24.5	69.2	11.7	1.0	
13649	578305	5660404	NAD27	21	B-horizon soil	1.0	45.1	279.5	20.5	1.0	
13650	578332	5660401	NAD27	21	B-horizon soil	1.0	22.0	68.6	23.1	21.1	
13651	578356	5660400	NAD27	21	B-horizon soil	1.0	22.0	64.1	9.9	21.6	
13652	578382	5660398	NAD27	21	B-horizon soil	1.0	37.9	84.2	10.7	12.8	
13653	578405	5660402	NAD27	21	B-horizon soil	1.0	52.7	110.2	22.3	1.0	
13654	578432	5660401	NAD27	21	B-horizon soil	1.0	25.9	49.2	10.0	13.9	
13655	578455	5660398	NAD27	21	B-horizon soil	1.0	19.9	42.4	11.1	1.0	
13656	578482	5660402	NAD27	21	B-horizon soil	36.8	43.3	218.1	31.1	1.0	
13658	578545	5660395	NAD27	21	B-horizon soil	1.0	68.8	168.8	25.9	1.0	
13659	578636	5660605	NAD27	21	B-horizon soil	1.0	29.5	32.7	1.0	13.3	
13660	578610	5660597	NAD27	21	B-horizon soil	1.0	34.1	180.5	16.4	1.0	
13661	578577	5660604	NAD27	21	B-horizon soil	1.0	27.2	56.3	12.9	1.0	
13662	578548	5660602	NAD27	21	B-horizon soil	1.0	22.9	45.8	16.4	1.0	
13663	578522	5660601	NAD27	21	B-horizon soil	1.0	34.7	119.6	13.6	1.0	
13664	578498	5660599	NAD27	21	B-horizon soil	1.0	31.6	77.6	1.0	1.0	
13665	578475	5660605	NAD27	21	B-horizon soil	1.0	37.2	51.4	17.9	15.9	
13666	578443	5660599	NAD27	21	B-horizon soil	1.0	42.0	309.2	1.0	1.0	
13667	578422	5660601	NAD27	21	B-horizon soil	1.0	31.3	52.4	1.0	1.0	
13668	578398	5660601	NAD27	21	B-horizon soil	1.0	25.4	62.9	13.1	23.5	
13669	578373	5660603	NAD27	21	B-horizon soil	58.6	26.5	93.2	10.4	20.5	
13670	578342	5660596	NAD27	21	B-horizon soil	1.0	58.7	387.7	17.9	1.0	
13672	578322	5660605	NAD27	21	B-horizon soil	44.4	54.4	336.7	28.0	1.0	
13673	578292	5660597	NAD27	21	B-horizon soil	1.0	66.5	336.3	46.0	13.4	
13674	578273	5660603	NAD27	21	B-horizon soil	108.5	496.3	449.2	146.3	20.2	
13675	578249	5660600	NAD27	21	B-horizon soil	1.0	58.7	121.7	51.7	14.4	
13676	578208	5660598	NAD27	21	B-horizon soil	1.0	18.9	29.0	9.7	1.0	
13677	578186	5660597	NAD27	21	B-horizon soil	1.0	18.3	30.3	13.0	11.1	
13678	578159	5660600	NAD27	21	B-horizon soil	1.0	36.9	85.4	1.0	1.0	
13679	578135	5660598	NAD27	21	B-horizon soil	51.1	465.3	576.5	42.7	26.8	
13680	578107	5660599	NAD27	21	B-horizon soil	1.0	15.1	37.8	9.9	1.0	
13681	578083	5660600	NAD27	21	B-horizon soil	1.0	24.9	63.4	16.7	13.3	
13682	578687	5660998	NAD27	21	B-horizon soil	1.0	66.1	337.5	24.7	1.0	
13683	578714	5660999	NAD27	21	B-horizon soil	1.0	67.7	284.2	31.1	1.0	
13684	578741	5661000	NAD27	21	B-horizon soil	1.0	26.1	60.4	1.0	1.0	
13685	578766	5660999	NAD27	21	B-horizon soil	1.0	20.6	74.3	13.0	22.3	
13686	578795	5660998	NAD27	21	B-horizon soil	1.0	24.5	66.3	8.9	21.0	

## Appendix 2: Sail Pond Soil Sample List

Sample Number	UTM Easting	UTM Northing	Datum	Zone	Sample Medium	pXRF Cu(ppm)	pXRF Pb(ppm)	pXRF Zn(ppm)	pXRF As(ppm)	pXRF Sb(ppm)	Check Analysis - Certificate Reference
13687	578821	5661000	NAD27	21	B-horizon soil	1.0	17.6	88.9	13.1	15.0	
13688	578847	5661003	NAD27	21	B-horizon soil	1.0	26.3	74.2	1.0	1.0	
13689	578863	5660997	NAD27	21	B-horizon soil	1.0	21.9	65.4	20.4	1.0	
13690	578724	5660811	NAD27	21	B-horizon soil	1.0	22.1	61.7	15.1	12.1	
13691	578700	5660805	NAD27	21	B-horizon soil	1.0	25.8	49.9	1.0	1.0	
13692	578672	5660799	NAD27	21	B-horizon soil	1.0	17.7	57.7	11.1	31.1	
13693	578646	5660802	NAD27	21	B-horizon soil	1.0	22.4	23.9	1.0	1.0	
13694	578619	5660802	NAD27	21	B-horizon soil	1.0	42.6	101.7	29.4	1.0	
13695	578597	5660806	NAD27	21	B-horizon soil	1.0	57.4	216.9	27.7	1.0	
13696	578571	5660802	NAD27	21	B-horizon soil	1.0	58.5	264.7	44.5	1.0	
13700	578547	5660800	NAD27	21	B-horizon soil	1.0	39.2	49.0	10.9	13.8	
13701	578525	5660801	NAD27	21	B-horizon soil	1.0	51.2	160.1	24.8	1.0	
13702	578497	5660796	NAD27	21	B-horizon soil	1.0	20.8	43.3	12.6	1.0	
13703	578472	5660798	NAD27	21	B-horizon soil	1.0	51.2	137.8	33.9	1.0	
13704	578442	5660798	NAD27	21	B-horizon soil	39.3	83.5	299.9	45.1	1.0	
13705	578420	5660799	NAD27	21	B-horizon soil	44.1	144.5	347.9	88.1	18.9	
13706	578394	5660801	NAD27	21	B-horizon soil	38.6	212.2	301.4	66.9	1.0	
13707	578351	5660801	NAD27	21	B-horizon soil	37.6	24.3	64.0	13.4	19.0	
13708	578324	5660798	NAD27	21	B-horizon soil	1.0	63.2	257.8	21.6	1.0	
13709	578297	5660799	NAD27	21	B-horizon soil	1.0	25.4	45.4	1.0	13.8	
13710	578274	5660798	NAD27	21	B-horizon soil	1.0	25.5	181.5	12.2	1.0	
13711	578250	5660800	NAD27	21	B-horizon soil	1.0	18.4	47.9	15.5	11.7	
13712	578228	5660800	NAD27	21	B-horizon soil	36.6	54.9	74.3	46.0	11.9	
13713	578344	5661002	NAD27	21	B-horizon soil	1.0	35.0	61.4	16.7	16.0	
13714	578372	5660999	NAD27	21	B-horizon soil	1.0	29.9	63.4	1.0	1.0	
13715	578396	5661001	NAD27	21	B-horizon soil	63.6	217.7	349.9	37.8	1.0	
13716	578422	5661000	NAD27	21	B-horizon soil	1.0	24.1	58.1	1.0	1.0	
13717	578458	5660999	NAD27	21	B-horizon soil	1.0	34.3	114.1	18.3	1.0	
13718	578486	5661004	NAD27	21	B-horizon soil	74.8	64.0	147.7	108.2	1.0	
13719	578513	5661000	NAD27	21	B-horizon soil	1.0	29.2	51.1	9.7	1.0	
13720	578541	5660997	NAD27	21	B-horizon soil	1.0	25.1	286.4	16.3	1.0	
13721	578567	5660999	NAD27	21	B-horizon soil	1.0	40.6	105.9	20.9	12.4	
13722	578600	5660998	NAD27	21	B-horizon soil	1.0	27.2	45.0	15.2	1.0	
13723	578626	5660999	NAD27	21	B-horizon soil	1.0	27.9	52.1	9.0	12.1	
13724	578651	5661003	NAD27	21	B-horizon soil	1.0	17.2	55.6	15.1	1.0	
13725	579566	5659102	NAD27	21	B-horizon soil	1.0	23.2	93.0	8.3	1.0	
13726	579592	5659100	NAD27	21	B-horizon soil	1.0	35.7	49.9	20.7	12.0	
13727	579619	5659101	NAD27	21	B-horizon soil	1.0	31.6	69.1	10.0	19.5	
13728	579644	5659100	NAD27	21	B-horizon soil	35.5	68.5	109.7	34.2	1.0	
13729	579671	5659099	NAD27	21	B-horizon soil	1.0	31.8	71.6	23.5	23.8	
13730	579698	5659101	NAD27	21	B-horizon soil	1.0	29.9	36.2	16.6	16.4	
13731	579724	5659103	NAD27	21	B-horizon soil	1.0	18.7	55.5	18.9	1.0	
13732	579751	5659100	NAD27	21	B-horizon soil	1.0	29.0	65.9	15.0	1.0	
13733	579771	5659105	NAD27	21	B-horizon soil	1.0	36.4	91.9	27.2	1.0	
13734	579800	5659103	NAD27	21	B-horizon soil	1.0	24.5	37.7	17.7	12.7	
13735	579858	5659098	NAD27	21	B-horizon soil	1.0	46.8	92.3	18.0	1.0	
13736	579886	5659100	NAD27	21	B-horizon soil	1.0	17.4	50.0	10.2	1.0	
13737	579911	5659100	NAD27	21	B-horizon soil	1.0	24.3	74.4	12.3	13.6	
13738	579935	5659100	NAD27	21	B-horizon soil	32.2	52.2	215.2	22.4	1.0	
13739	579955	5659104	NAD27	21	B-horizon soil	1.0	35.1	60.6	10.9	1.0	
13740	579981	5659104	NAD27	21	B-horizon soil	1.0	31.6	92.2	22.4	1.0	
13741	580017	5659094	NAD27	21	B-horizon soil	1.0	20.1	51.4	9.2	1.0	
13742	580045	5659100	NAD27	21	B-horizon soil	1.0	35.9	150.3	10.4	1.0	
13743	580076	5659097	NAD27	21	B-horizon soil	1.0	30.9	50.4	9.5	1.0	
13744	580102	5659103	NAD27	21	B-horizon soil	1.0	26.2	122.9	22.5	1.0	
13745	580129	5659095	NAD27	21	B-horizon soil	1.0	26.4	130.4	11.1	1.0	
13746	580157	5659102	NAD27	21	B-horizon soil	30.1	26.1	88.3	9.3	1.0	
13747	580175	5659098	NAD27	21	B-horizon soil	1.0	18.8	59.5	11.4	1.0	
13748	580207	5659099	NAD27	21	B-horizon soil	34.8	24.4	132.6	26.2	13.8	
13749	580230	5659103	NAD27	21	B-horizon soil	1.0	13.0	59.7	10.9	11.3	

## Appendix 2: Sail Pond Soil Sample List

Sample Number	UTM Easting	UTM Northing	Datum	Zone	Sample Medium	pXRF Cu(ppm)	pXRF Pb(ppm)	pXRF Zn(ppm)	pXRF As(ppm)	pXRF Sb(ppm)	Check Analysis - Certificate Reference
13750	580282	5659097	NAD27	21	B-horizon soil	29.7	27.3	79.2	1.0	21.2	
13751	580306	5659094	NAD27	21	B-horizon soil	1.0	13.4	49.9	28.3	1.0	
13752	580476	5659098	NAD27	21	B-horizon soil	1.0	29.5	148.7	20.7	1.0	
13753	580504	5659102	NAD27	21	B-horizon soil	1.0	48.1	64.2	15.2	1.0	
13754	580527	5659102	NAD27	21	B-horizon soil	1.0	15.1	74.1	18.9	1.0	
13755	580554	5659102	NAD27	21	B-horizon soil	1.0	27.0	55.0	16.7	13.4	
13756	580376	5659293	NAD27	21	B-horizon soil	1.0	32.3	57.2	9.4	16.7	
13758	580169	5659298	NAD27	21	B-horizon soil	1.0	15.5	35.7	1.0	1.0	
13759	580145	5659302	NAD27	21	B-horizon soil	1.0	26.9	40.0	30.6	1.0	
13760	580119	5659307	NAD27	21	B-horizon soil	1.0	21.9	32.0	14.0	1.0	
13761	580090	5659301	NAD27	21	B-horizon soil	1.0	16.6	41.9	40.2	1.0	
13762	580064	5659300	NAD27	21	B-horizon soil	1.0	26.9	43.3	18.7	12.3	
13763	580044	5659297	NAD27	21	B-horizon soil	1.0	23.6	65.1	22.2	1.0	
13765	580018	5659294	NAD27	21	B-horizon soil	1.0	16.0	36.8	11.7	1.0	
13766	579996	5659297	NAD27	21	B-horizon soil	1.0	30.8	78.2	26.0	1.0	
13767	579969	5659302	NAD27	21	B-horizon soil	1.0	32.3	41.6	13.4	1.0	
13768	579943	5659306	NAD27	21	B-horizon soil	1.0	20.0	64.1	26.5	1.0	
13769	579920	5659302	NAD27	21	B-horizon soil	1.0	22.5	40.1	17.4	1.0	
13770	579895	5659299	NAD27	21	B-horizon soil	1.0	40.1	70.3	11.9	15.5	
13771	579868	5659300	NAD27	21	B-horizon soil	1.0	40.3	202.8	32.4	1.0	
13772	579851	5659294	NAD27	21	B-horizon soil	1.0	47.1	83.9	244.8	22.9	
13773	579811	5659296	NAD27	21	B-horizon soil	1.0	35.2	55.4	35.6	1.0	
13774	579785	5659298	NAD27	21	B-horizon soil	1.0	32.4	64.3	13.2	25.5	
13775	579715	5659300	NAD27	21	B-horizon soil	1.0	28.4	74.1	13.1	12.7	
13776	579684	5659295	NAD27	21	B-horizon soil	1.0	30.5	33.3	1.0	1.0	
13777	576658	5658399	NAD27	21	B-horizon soil	1.0	16.3	28.3	1.0	1.0	
13778	576691	5658402	NAD27	21	B-horizon soil	1.0	23.6	163.1	21.1	1.0	
13779	576723	5658402	NAD27	21	B-horizon soil	1.0	36.6	94.0	30.7	1.0	
13780	576748	5658403	NAD27	21	B-horizon soil	1.0	19.7	120.8	27.7	1.0	
13781	576823	5658402	NAD27	21	B-horizon soil	1.0	39.1	69.5	24.1	1.0	
13782	576859	5658399	NAD27	21	B-horizon soil	1.0	24.6	65.7	11.4	18.6	
13783	576895	5658401	NAD27	21	B-horizon soil	1.0	86.9	126.2	28.5	1.0	
13784	576919	5658398	NAD27	21	B-horizon soil	1.0	16.9	45.8	14.4	1.0	
13785	576949	5658403	NAD27	21	B-horizon soil	1.0	19.4	38.6	22.5	1.0	
13786	576977	5658397	NAD27	21	B-horizon soil	40.5	33.1	120.9	26.8	1.0	
13787	576998	5658397	NAD27	21	B-horizon soil	1.0	11.3	35.5	16.1	1.0	
13788	577142	5658601	NAD27	21	B-horizon soil	1.0	14.9	54.5	12.7	1.0	
13789	577113	5658597	NAD27	21	B-horizon soil	1.0	20.7	45.1	20.6	1.0	
13790	577084	5657601	NAD27	21	B-horizon soil	31.9	19.3	57.9	11.5	1.0	
13791	577060	5658597	NAD27	21	B-horizon soil	1.0	21.5	44.5	9.1	1.0	
13792	577032	5658601	NAD27	21	B-horizon soil	1.0	26.2	110.2	28.0	1.0	
13793	577000	5658602	NAD27	21	B-horizon soil	1.0	55.9	96.4	22.4	1.0	
13794	576967	5658599	NAD27	21	B-horizon soil	30.1	49.3	70.9	17.3	1.0	
13795	576940	5658601	NAD27	21	B-horizon soil	1.0	57.3	84.3	20.6	1.0	
13796	576915	5658598	NAD27	21	B-horizon soil	1.0	20.8	50.5	1.0	1.0	
13797	576888	5658603	NAD27	21	B-horizon soil	1.0	60.9	83.9	19.1	1.0	
13798	576855	5658593	NAD27	21	B-horizon soil	1.0	23.2	55.3	54.4	1.0	
13799	576815	5658602	NAD27	21	B-horizon soil	1.0	12.4	35.8	1.0	1.0	
13800	576788	5658601	NAD27	21	B-horizon soil	1.0	27.6	71.0	14.0	1.0	
14001	579160	5661494	NAD27	21	B-horizon soil	1.0	18.9	59.1	1.0	20.1	
14002	579183	5661503	NAD27	21	B-horizon soil	1.0	21.0	54.3	14.5	1.0	
14003	579204	5661503	NAD27	21	B-horizon soil	1.0	29.4	89.3	1.0	1.0	
14005	579235	5661506	NAD27	21	B-horizon soil	1.0	19.1	61.4	14.7	1.0	
14006	579257	5661502	NAD27	21	B-horizon soil	36.5	31.9	239.0	27.7	1.0	
14007	579283	5661500	NAD27	21	B-horizon soil	1.0	35.1	123.5	9.2	1.0	
14008	579307	5661502	NAD27	21	B-horizon soil	1.0	23.5	169.0	15.9	1.0	
14009	579331	5661503	NAD27	21	B-horizon soil	1.0	24.6	194.6	23.8	1.0	
14010	579357	5661504	NAD27	21	B-horizon soil	1.0	16.8	99.5	14.6	1.0	
14011	579384	5661503	NAD27	21	B-horizon soil	1.0	19.8	35.9	1.0	13.2	
14012	579406	5661499	NAD27	21	B-horizon soil	1.0	15.9	26.1	1.0	14.9	

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Sample Number	UTM Easting	UTM Northing	Datum	Zone	Sample Medium	pXRF Cu(ppm)	pXRF Pb(ppm)	pXRF Zn(ppm)	pXRF As(ppm)	pXRF Sb(ppm)	Check Analysis - Certificate Reference
14013	579433	5661495	NAD27	21	B-horizon soil	1.0	15.3	47.8	14.0	15.5	
14015	579460	5661502	NAD27	21	B-horizon soil	1.0	19.2	76.7	7.8	1.0	
14017	579506	5661492	NAD27	21	B-horizon soil	1.0	21.8	53.1	9.6	1.0	
14018	579707	5661507	NAD27	21	B-horizon soil	1.0	27.2	47.4	17.1	1.0	
14019	579730	5661500	NAD27	21	B-horizon soil	1.0	85.2	75.8	28.8	13.5	
14020	579759	5661510	NAD27	21	B-horizon soil	1.0	13.0	66.3	14.3	1.0	
14021	579784	5661500	NAD27	21	B-horizon soil	1.0	34.0	90.9	28.6	1.0	
14022	579832	5661505	NAD27	21	B-horizon soil	1.0	21.3	43.3	1.0	1.0	
14023	579856	5661501	NAD27	21	B-horizon soil	1.0	19.2	34.2	1.0	1.0	
14024	579883	5661506	NAD27	21	B-horizon soil	1.0	1.0	21.9	9.1	17.1	
14025	579978	5661499	NAD27	21	B-horizon soil	1.0	20.7	47.7	1.0	13.5	
14026	580004	5661501	NAD27	21	B-horizon soil	1.0	21.1	49.8	9.6	1.0	
14027	580032	5661503	NAD27	21	B-horizon soil	1.0	22.6	70.0	10.3	1.0	
14028	580053	5661504	NAD27	21	B-horizon soil	1.0	18.8	71.0	15.7	29.0	
14029	580075	5661508	NAD27	21	B-horizon soil	1.0	31.1	63.1	11.9	1.0	
14030	580103	5661506	NAD27	21	B-horizon soil	1.0	87.6	189.3	1.0	1.0	
14031	580129	5661510	NAD27	21	B-horizon soil	1.0	23.9	79.4	18.2	1.0	
14032	580150	5661512	NAD27	21	B-horizon soil	1.0	40.7	60.9	11.6	1.0	
14033	580179	5661500	NAD27	21	B-horizon soil	1.0	29.1	72.0	24.7	1.0	
14034	580205	5661499	NAD27	21	B-horizon soil	1.0	27.5	90.5	15.3	1.0	
14035	580225	5661505	NAD27	21	B-horizon soil	1.0	34.6	87.3	23.3	1.0	
14036	580256	5661487	NAD27	21	B-horizon soil	1.0	17.8	52.2	15.4	1.0	
14037	580281	5661497	NAD27	21	B-horizon soil	1.0	37.3	81.9	23.5	1.0	
14038	580305	5661504	NAD27	21	B-horizon soil	1.0	19.7	104.5	12.6	1.0	
14039	580400	5661502	NAD27	21	B-horizon soil	1.0	22.4	49.8	17.3	1.0	
14040	580428	5661504	NAD27	21	B-horizon soil	1.0	20.0	79.6	13.4	1.0	
14041	580456	5661498	NAD27	21	B-horizon soil	1.0	24.6	64.8	10.4	1.0	
14042	580483	5661501	NAD27	21	B-horizon soil	1.0	21.8	68.0	18.9	1.0	
14043	580506	5661502	NAD27	21	B-horizon soil	1.0	9.2	64.4	13.1	1.0	
14044	580556	5661505	NAD27	21	B-horizon soil	1.0	26.9	99.4	14.0	1.0	
14045	580578	5661506	NAD27	21	B-horizon soil	1.0	27.6	103.0	17.5	1.0	
14046	580603	5661505	NAD27	21	B-horizon soil	1.0	20.6	86.3	22.5	1.0	
14050	580626	5661510	NAD27	21	B-horizon soil	1.0	30.7	66.4	8.9	1.0	
14051	580652	5661498	NAD27	21	B-horizon soil	1.0	43.7	109.0	18.6	1.0	
14052	580777	5661706	NAD27	21	B-horizon soil	1.0	9.7	21.6	10.6	17.3	
14053	580752	5661700	NAD27	21	B-horizon soil	1.0	18.8	64.4	10.1	1.0	
14055	580700	5661697	NAD27	21	B-horizon soil	1.0	11.5	26.1	1.0	1.0	
14056	580680	5661701	NAD27	21	B-horizon soil	1.0	19.8	80.2	28.7	1.0	
14057	580647	5661701	NAD27	21	B-horizon soil	1.0	24.5	73.3	11.3	1.0	
14058	580624	5661701	NAD27	21	B-horizon soil	1.0	38.1	96.4	1.0	1.0	
14059	580596	5661702	NAD27	21	B-horizon soil	1.0	18.6	52.0	11.5	1.0	
14060	580576	5661705	NAD27	21	B-horizon soil	1.0	28.9	84.4	1.0	19.4	
14061	580550	5661703	NAD27	21	B-horizon soil	1.0	30.2	170.7	23.8	1.0	
14063	580502	5661699	NAD27	21	B-horizon soil	1.0	33.5	60.9	28.6	1.0	
14064	580502	5661699	NAD27	21	B-horizon soil	28.2	25.5	61.4	13.5	11.8	
14065	580472	5661706	NAD27	21	B-horizon soil	1.0	23.5	80.1	1.0	1.0	
14066	580456	5661701	NAD27	21	B-horizon soil	1.0	1.0	37.2	14.9	1.0	
14067	580425	5661701	NAD27	21	B-horizon soil	1.0	35.3	97.5	21.1	1.0	
14068	580399	5661705	NAD27	21	B-horizon soil	1.0	13.1	72.7	8.8	1.0	
14069	580369	5661705	NAD27	21	B-horizon soil	1.0	16.7	45.1	1.0	19.1	
14070	580348	5661702	NAD27	21	B-horizon soil	1.0	62.8	87.6	26.7	33.0	
14071	580327	5661706	NAD27	21	B-horizon soil	1.0	1.0	14.2	7.4	25.5	
14072	580298	5661710	NAD27	21	B-horizon soil	1.0	26.4	116.0	1.0	1.0	
14073	580275	5661700	NAD27	21	B-horizon soil	1.0	25.0	103.9	11.9	1.0	
14074	580248	5661704	NAD27	21	B-horizon soil	1.0	27.2	36.6	14.9	1.0	
14075	580224	5661702	NAD27	21	B-horizon soil	1.0	20.2	54.9	9.5	1.0	
14076	580197	5661698	NAD27	21	B-horizon soil	1.0	29.5	63.6	1.0	1.0	
14077	580173	5661698	NAD27	21	B-horizon soil	1.0	47.0	85.5	15.4	1.0	
14078	580049	5661700	NAD27	21	B-horizon soil	1.0	28.6	64.0	17.4	11.5	
14079	579846	5661706	NAD27	21	B-horizon soil	1.0	25.6	62.8	12.9	1.0	



## Appendix 2: Sail Pond Soil Sample List

Sample Number	UTM Easting	UTM Northing	Datum	Zone	Sample Medium	pXRF Cu(ppm)	pXRF Pb(ppm)	pXRF Zn(ppm)	pXRF As(ppm)	pXRF Sb(ppm)	Check Analysis - Certificate Reference
14080	579796	5661706	NAD27	21	B-horizon soil	1.0	57.2	97.2	1.0	1.0	
14081	579603	5661703	NAD27	21	B-horizon soil	1.0	16.6	25.4	7.9	1.0	
14082	579524	5661707	NAD27	21	B-horizon soil	1.0	8.6	28.1	7.8	10.9	
14083	579499	5661706	NAD27	21	B-horizon soil	1.0	34.9	97.2	1.0	1.0	
14084	579482	5661703	NAD27	21	B-horizon soil	1.0	21.3	31.9	13.7	1.0	
14085	579452	5661699	NAD27	21	B-horizon soil	1.0	8.6	47.8	11.4	20.1	
14086	579427	5661696	NAD27	21	B-horizon soil	1.0	1.0	17.6	9.2	1.0	
14087	579400	5661695	NAD27	21	B-horizon soil	1.0	27.1	81.7	24.2	1.0	
14088	579374	5661704	NAD27	21	B-horizon soil	1.0	13.7	45.0	14.2	1.0	
14089	579348	5661702	NAD27	21	B-horizon soil	1.0	24.4	173.4	17.4	1.0	
14090	579307	5661697	NAD27	21	B-horizon soil	1.0	23.1	84.8	30.1	1.0	
14091	579279	5661709	NAD27	21	B-horizon soil	1.0	16.2	46.7	1.0	1.0	
14092	579260	5661706	NAD27	21	B-horizon soil	1.0	11.6	19.0	8.0	1.0	
14093	579227	5661703	NAD27	21	B-horizon soil	1.0	45.7	213.7	9.6	1.0	
14094	579199	5661701	NAD27	21	B-horizon soil	1.0	13.2	32.4	8.9	1.0	
14095	579178	5661706	NAD27	21	B-horizon soil	1.0	20.8	77.8	16.3	1.0	
14096	579156	5661704	NAD27	21	B-horizon soil	1.0	39.2	156.4	20.8	1.0	
14097	579031	5661707	NAD27	21	B-horizon soil	1.0	29.3	28.7	19.4	1.0	
14098	579184	5661896	NAD27	21	B-horizon soil	1.0	26.0	74.5	24.5	1.0	
14099	579208	5661902	NAD27	21	B-horizon soil	1.0	35.9	89.8	19.0	1.0	
14100	579235	5661905	NAD27	21	B-horizon soil	1.0	14.7	70.0	1.0	1.0	
14101	579558	5661300	NAD27	21	B-horizon soil	1.0	17.6	31.7	1.0	1.0	
14102	579584	5661303	NAD27	21	B-horizon soil	29.6	30.0	88.2	10.7	1.0	
14103	579609	5661306	NAD27	21	B-horizon soil	1.0	25.7	74.0	22.3	1.0	
14104	579637	5661305	NAD27	21	B-horizon soil	1.0	25.0	72.0	1.0	17.6	
14105	579664	5661304	NAD27	21	B-horizon soil	1.0	18.8	62.3	13.3	21.1	
14106	579682	5661293	NAD27	21	B-horizon soil	48.1	43.0	103.7	23.8	1.0	
14107	579710	5661299	NAD27	21	B-horizon soil	1.0	51.3	195.5	16.1	1.0	
14108	579730	5661299	NAD27	21	B-horizon soil	1.0	12.9	36.8	8.0	1.0	
14109	579786	5661298	NAD27	21	B-horizon soil	1.0	9.2	77.2	7.6	1.0	
14110	579811	5661289	NAD27	21	B-horizon soil	1.0	9.4	34.1	12.4	13.8	
14111	579834	5661295	NAD27	21	B-horizon soil	1.0	28.8	78.4	15.6	1.0	
14112	579861	5661298	NAD27	21	B-horizon soil	39.1	21.0	72.7	19.7	19.0	
14117	579914	5661298	NAD27	21	B-horizon soil	36.0	16.8	82.3	17.7	1.0	
14118	579935	5661299	NAD27	21	B-horizon soil	1.0	16.9	29.2	8.2	27.9	
14119	579961	5661301	NAD27	21	B-horizon soil	1.0	20.5	51.9	1.0	21.5	
14120	579986	5661298	NAD27	21	B-horizon soil	1.0	13.6	29.8	11.4	1.0	
14121	580009	5661297	NAD27	21	B-horizon soil	1.0	28.7	57.4	20.6	1.0	
14122	580040	5661291	NAD27	21	B-horizon soil	1.0	15.5	39.8	12.5	1.0	
14123	580063	5661294	NAD27	21	B-horizon soil	1.0	11.7	24.7	1.0	1.0	
14124	580085	5661294	NAD27	21	B-horizon soil	1.0	23.7	91.4	16.1	1.0	
14125	580112	5661299	NAD27	21	B-horizon soil	1.0	23.2	133.4	20.7	1.0	
14126	580134	5661294	NAD27	21	B-horizon soil	1.0	31.2	84.5	10.4	1.0	
14127	580160	5661292	NAD27	21	B-horizon soil	1.0	13.4	54.9	21.4	1.0	
14128	580190	5661294	NAD27	21	B-horizon soil	1.0	17.2	60.1	20.8	1.0	
14129	580211	5661293	NAD27	21	B-horizon soil	1.0	33.3	76.4	1.0	1.0	
14130	580232	5661294	NAD27	21	B-horizon soil	1.0	17.8	60.2	8.2	17.8	
14131	580259	5661295	NAD27	21	B-horizon soil	1.0	26.2	73.3	8.8	15.6	
14132	580286	5661303	NAD27	21	B-horizon soil	1.0	25.1	118.6	24.1	1.0	
14133	580311	5661297	NAD27	21	B-horizon soil	1.0	46.1	88.5	25.2	1.0	
14134	580341	5661292	NAD27	21	B-horizon soil	1.0	31.5	61.0	1.0	13.7	
14135	580367	5661289	NAD27	21	B-horizon soil	30.1	41.4	80.3	22.5	1.0	
14137	580386	5661295	NAD27	21	B-horizon soil	1.0	18.2	55.2	20.0	1.0	
14138	580415	5661294	NAD27	21	B-horizon soil	1.0	10.7	54.4	8.5	1.0	
14140	580441	5661292	NAD27	21	B-horizon soil	1.0	9.0	41.8	7.6	1.0	
14141	580468	5661300	NAD27	21	B-horizon soil	1.0	22.3	56.5	11.7	1.0	
14142	580490	5661301	NAD27	21	B-horizon soil	1.0	1.0	22.1	10.7	1.0	
14143	580514	5661296	NAD27	21	B-horizon soil	1.0	14.1	51.2	23.7	1.0	
14144	580537	5661292	NAD27	21	B-horizon soil	1.0	33.6	68.0	1.0	1.0	
14145	580558	5661295	NAD27	21	B-horizon soil	1.0	1.0	25.2	11.0	1.0	

## Appendix 2: Sail Pond Soil Sample List

Sample Number	UTM Easting	UTM Northing	Datum	Zone	Sample Medium	pXRF Cu(ppm)	pXRF Pb(ppm)	pXRF Zn(ppm)	pXRF As(ppm)	pXRF Sb(ppm)	Check Analysis - Certificate Reference
14146	578458	5661106	NAD27	21	B-horizon soil	1.0	46.0	245.7	19.4	1.0	
14147	578435	5661097	NAD27	21	B-horizon soil	1.0	42.3	160.1	22.7	1.0	
14148	578407	5661095	NAD27	21	B-horizon soil	1.0	41.9	107.0	16.8	1.0	
14149	578393	5661079	NAD27	21	B-horizon soil	1.0	22.2	41.8	11.0	1.0	
14150	580411	5660498	NAD27	21	B-horizon soil	1.0	13.4	55.3	1.0	1.0	
14151	580432	5660499	NAD27	21	B-horizon soil	1.0	15.1	54.4	18.3	1.0	
14152	580458	5660500	NAD27	21	B-horizon soil	1.0	24.0	62.2	21.9	1.0	
14153	580486	5660498	NAD27	21	B-horizon soil	1.0	29.4	65.5	1.0	1.0	
14154	580508	5660504	NAD27	21	B-horizon soil	1.0	16.3	40.5	13.5	1.0	
14155	580532	5660499	NAD27	21	B-horizon soil	1.0	13.7	32.4	13.8	1.0	
14156	580562	5660501	NAD27	21	B-horizon soil	1.0	38.7	161.5	15.6	1.0	
14157	580581	5660500	NAD27	21	B-horizon soil	1.0	30.1	86.0	24.3	1.0	
14158	580606	5660508	NAD27	21	B-horizon soil	1.0	24.1	79.3	18.9	1.0	
14160	580636	5660508	NAD27	21	B-horizon soil	1.0	14.8	18.6	1.0	30.6	
14161	580658	5660505	NAD27	21	B-horizon soil	1.0	21.3	204.8	13.5	1.0	
14162	580682	5660504	NAD27	21	B-horizon soil	1.0	44.0	80.7	9.7	1.0	
14163	580706	5660504	NAD27	21	B-horizon soil	1.0	29.4	72.1	41.4	1.0	
14164	580730	5660496	NAD27	21	B-horizon soil	1.0	24.5	75.6	15.6	19.1	
14165	580760	5660494	NAD27	21	B-horizon soil	1.0	29.7	85.9	1.0	21.8	
14166	580787	5660498	NAD27	21	B-horizon soil	1.0	27.9	65.1	1.0	16.4	
14167	580808	5660499	NAD27	21	B-horizon soil	1.0	31.4	72.0	12.0	1.0	
14168	580836	5660497	NAD27	21	B-horizon soil	1.0	25.8	233.3	13.3	1.0	
14169	580863	5660491	NAD27	21	B-horizon soil	1.0	28.8	159.8	1.0	1.0	
14170	580881	5660497	NAD27	21	B-horizon soil	1.0	1.0	55.5	11.1	1.0	
14171	580909	5660511	NAD27	21	B-horizon soil	1.0	24.8	108.2	10.1	1.0	
14172	580937	5660508	NAD27	21	B-horizon soil	1.0	23.5	41.1	8.8	1.0	
14173	580959	5660503	NAD27	21	B-horizon soil	1.0	57.2	169.7	1.0	1.0	
14174	580985	5660496	NAD27	21	B-horizon soil	1.0	36.1	117.6	1.0	1.0	
14175	581013	5660496	NAD27	21	B-horizon soil	1.0	22.0	65.0	14.0	1.0	
14176	581030	5660499	NAD27	21	B-horizon soil	30.4	63.4	104.3	11.7	1.0	
14177	581052	5660495	NAD27	21	B-horizon soil	1.0	56.2	96.6	30.5	1.0	
14178	580916	5660304	NAD27	21	B-horizon soil	1.0	25.9	150.4	1.0	1.0	
14179	580893	5660309	NAD27	21	B-horizon soil	1.0	41.3	102.1	21.2	1.0	
14180	580868	5660306	NAD27	21	B-horizon soil	1.0	31.0	117.1	19.5	1.0	
14181	580844	5660311	NAD27	21	B-horizon soil	1.0	24.1	130.2	17.1	1.0	
14182	580819	5660306	NAD27	21	B-horizon soil	1.0	14.5	181.0	7.6	1.0	
14183	580790	5660310	NAD27	21	B-horizon soil	1.0	1.0	29.5	1.0	33.2	
14184	580766	5660311	NAD27	21	B-horizon soil	1.0	20.4	63.0	13.5	1.0	
14185	580738	5660309	NAD27	21	B-horizon soil	1.0	19.3	63.6	8.4	1.0	
14186	580718	5660310	NAD27	21	B-horizon soil	1.0	19.5	63.4	10.9	1.0	
14187	580542	5660308	NAD27	21	B-horizon soil	1.0	21.6	27.3	1.0	1.0	
14188	580517	5660294	NAD27	21	B-horizon soil	1.0	36.2	123.5	19.8	1.0	
14189	580488	5660294	NAD27	21	B-horizon soil	1.0	19.5	109.3	13.0	1.0	
14190	580466	5660294	NAD27	21	B-horizon soil	1.0	34.2	180.6	13.5	1.0	
14191	580441	5660297	NAD27	21	B-horizon soil	1.0	25.5	60.6	13.0	1.0	
14192	580418	5660298	NAD27	21	B-horizon soil	1.0	20.9	71.2	1.0	25.2	
14193	580339	5660310	NAD27	21	B-horizon soil	37.6	12.6	47.6	13.0	1.0	
14194	578928	5661496	NAD27	21	B-horizon soil	1.0	18.3	86.7	12.9	1.0	
14195	578953	5661505	NAD27	21	B-horizon soil	1.0	33.3	83.9	17.2	1.0	
14196	578980	5661506	NAD27	21	B-horizon soil	1.0	31.9	115.7	20.8	1.0	
14197	579003	5661495	NAD27	21	B-horizon soil	1.0	26.8	141.8	35.1	1.0	
14198	579082	5661496	NAD27	21	B-horizon soil	1.0	38.9	134.8	26.8	1.0	
14199	579109	5661495	NAD27	21	B-horizon soil	1.0	16.7	15.7	1.0	1.0	
14200	579135	5661492	NAD27	21	B-horizon soil	1.0	14.3	36.8	1.0	44.9	
14201	577846	5661090	NAD27	21	B-horizon soil	1.0	20.5	142.8	12.6	1.0	
14202	577865	5661097	NAD27	21	B-horizon soil	1.0	30.4	118.1	63.7	1.0	
14203	577896	5661097	NAD27	21	B-horizon soil	1.0	15.7	51.0	17.4	1.0	
14204	577916	5661095	NAD27	21	B-horizon soil	1.0	15.6	52.1	11.4	26.6	
14205	577941	5661091	NAD27	21	B-horizon soil	1.0	27.4	92.7	16.2	1.0	
14206	577965	5661103	NAD27	21	B-horizon soil	1.0	14.5	133.1	13.9	1.0	

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Sample Number	UTM Easting	UTM Northing	Datum	Zone	Sample Medium	pXRF Cu(ppm)	pXRF Pb(ppm)	pXRF Zn(ppm)	pXRF As(ppm)	pXRF Sb(ppm)	Check Analysis - Certificate Reference
14207	577987	5661101	NAD27	21	B-horizon soil	1.0	16.5	58.6	1.0	1.0	
14208	578014	5661093	NAD27	21	B-horizon soil	1.0	13.6	44.3	1.0	1.0	
14209	578037	5661096	NAD27	21	B-horizon soil	1.0	24.1	101.5	15.9	1.0	
14210	578875	5661506	NAD27	21	B-horizon soil	1.0	21.2	64.0	14.2	1.0	
14211	578850	5661498	NAD27	21	B-horizon soil	1.0	14.9	155.7	7.4	1.0	
14212	578829	5661499	NAD27	21	B-horizon soil	1.0	48.9	80.3	22.6	11.5	
14213	578815	5661499	NAD27	21	B-horizon soil	1.0	22.0	59.4	11.0	1.0	
14214	578797	5661498	NAD27	21	B-horizon soil	1.0	22.1	70.9	12.4	1.0	
14215	578778	5661495	NAD27	21	B-horizon soil	1.0	9.8	59.1	8.7	1.0	
14216	578754	5661495	NAD27	21	B-horizon soil	1.0	23.7	68.1	1.0	1.0	
14217	578731	5661494	NAD27	21	B-horizon soil	1.0	21.6	34.9	21.6	1.0	
14218	578699	5661497	NAD27	21	B-horizon soil	1.0	19.2	54.4	20.6	1.0	
14219	578672	5661495	NAD27	21	B-horizon soil	1.0	51.4	127.5	16.0	1.0	
14220	578644	5661499	NAD27	21	B-horizon soil	1.0	30.5	61.7	10.6	1.0	
14221	578625	5661499	NAD27	21	B-horizon soil	1.0	23.6	90.5	11.5	1.0	
14222	578580	5661497	NAD27	21	B-horizon soil	1.0	94.9	207.6	26.1	1.0	
14223	578554	5661496	NAD27	21	B-horizon soil	1.0	36.8	146.0	17.9	1.0	
14224	578525	5661501	NAD27	21	B-horizon soil	1.0	18.7	58.7	17.0	1.0	
14225	578504	5661498	NAD27	21	B-horizon soil	1.0	18.9	22.2	1.0	1.0	
14226	578475	5661501	NAD27	21	B-horizon soil	78.9	19.4	96.7	13.6	1.0	
14227	578452	5661494	NAD27	21	B-horizon soil	1.0	18.8	211.7	15.8	1.0	
14228	578424	5661497	NAD27	21	B-horizon soil	1.0	25.7	69.5	1.0	1.0	
14229	578409	5661495	NAD27	21	B-horizon soil	1.0	22.7	48.3	9.2	1.0	
14230	578347	5661502	NAD27	21	B-horizon soil	1.0	11.8	40.3	1.0	1.0	
14231	578324	5661502	NAD27	21	B-horizon soil	1.0	24.3	104.8	15.7	1.0	
14232	578299	5661497	NAD27	21	B-horizon soil	36.3	23.9	62.6	1.0	20.5	
14233	578278	5661498	NAD27	21	B-horizon soil	1.0	29.4	69.7	1.0	21.0	
14234	578250	5661503	NAD27	21	B-horizon soil	1.0	13.8	60.5	13.3	16.6	
14235	578225	5661495	NAD27	21	B-horizon soil	1.0	20.1	32.9	8.9	1.0	
14236	578200	5661491	NAD27	21	B-horizon soil	1.0	13.3	55.6	11.0	11.4	
14237	578172	5661494	NAD27	21	B-horizon soil	1.0	10.8	68.2	8.9	27.0	
14238	578147	5661493	NAD27	21	B-horizon soil	1.0	24.8	87.6	11.8	18.7	
14239	578127	5661504	NAD27	21	B-horizon soil	1.0	34.1	98.8	1.0	1.0	
14240	578103	5661501	NAD27	21	B-horizon soil	1.0	27.8	57.4	10.7	1.0	
14241	578075	5661501	NAD27	21	B-horizon soil	1.0	20.8	99.4	12.9	13.9	
14242	578047	5661495	NAD27	21	B-horizon soil	1.0	16.6	46.5	9.8	1.0	
14243	578025	5661495	NAD27	21	B-horizon soil	30.6	33.6	69.1	26.2	1.0	
14244	577997	5661493	NAD27	21	B-horizon soil	1.0	32.6	117.4	26.7	1.0	
14245	577973	5661494	NAD27	21	B-horizon soil	1.0	29.8	154.6	35.0	1.0	
14246	577957	5661488	NAD27	21	B-horizon soil	1.0	36.2	72.1	45.9	1.0	
14247	577969	5661301	NAD27	21	B-horizon soil	1.0	26.4	90.6	12.0	1.0	
14248	577998	5661301	NAD27	21	B-horizon soil	1.0	23.3	86.1	12.5	13.8	
14249	578018	5661305	NAD27	21	B-horizon soil	1.0	47.9	387.9	38.9	1.0	
14250	578041	5661303	NAD27	21	B-horizon soil	1.0	19.9	100.8	17.9	1.0	
14251	578062	5661303	NAD27	21	B-horizon soil	1.0	19.5	52.5	12.1	1.0	
14252	578095	5661306	NAD27	21	B-horizon soil	1.0	23.4	60.6	9.5	1.0	
14253	578117	5661302	NAD27	21	B-horizon soil	1.0	13.4	40.6	7.8	1.0	
14254	578142	5661304	NAD27	21	B-horizon soil	1.0	17.5	76.2	10.5	17.5	
14255	578169	5661302	NAD27	21	B-horizon soil	1.0	31.3	80.4	13.3	1.0	
14256	578196	5661298	NAD27	21	B-horizon soil	1.0	16.0	36.3	8.4	1.0	
14257	578222	5661299	NAD27	21	B-horizon soil	1.0	1.0	22.2	1.0	1.0	
14258	578244	5661302	NAD27	21	B-horizon soil	1.0	31.8	99.3	25.4	1.0	
14259	578271	5661303	NAD27	21	B-horizon soil	1.0	16.2	61.2	8.1	17.0	
14260	578300	5661298	NAD27	21	B-horizon soil	1.0	16.7	69.4	12.1	1.0	
14261	578313	5661301	NAD27	21	B-horizon soil	1.0	23.0	42.6	14.8	1.0	
14262	578346	5661304	NAD27	21	B-horizon soil	1.0	52.6	115.4	20.7	1.0	
14263	578363	5661302	NAD27	21	B-horizon soil	1.0	1.0	41.0	16.2	1.0	
14264	578463	5661302	NAD27	21	B-horizon soil	1.0	33.6	104.8	14.5	1.0	
14265	578491	5661297	NAD27	21	B-horizon soil	1.0	80.1	242.2	19.9	1.0	
14266	578516	5661291	NAD27	21	B-horizon soil	1.0	34.8	125.3	9.4	1.0	

Appendix 2: Sail Pond Soil Sample List

Sample Number	UTM Easting	UTM Northing	Datum	Zone	Sample Medium	pXRF Cu(ppm)	pXRF Pb(ppm)	pXRF Zn(ppm)	pXRF As(ppm)	pXRF Sb(ppm)	Check Analysis - Certificate Reference
14267	578580	5661295	NAD27	21	B-horizon soil	1.0	1.0	35.6	12.9	1.0	
14268	578603	5661299	NAD27	21	B-horizon soil	1.0	22.1	155.2	18.9	1.0	
14269	578628	5661292	NAD27	21	B-horizon soil	1.0	18.8	34.4	12.7	1.0	
14270	578658	5661293	NAD27	21	B-horizon soil	1.0	9.8	107.4	23.9	1.0	
14271	578679	5661299	NAD27	21	B-horizon soil	1.0	31.0	107.1	13.6	1.0	
14272	578701	5661294	NAD27	21	B-horizon soil	1.0	31.2	80.0	20.5	1.0	
14273	578729	5661292	NAD27	21	B-horizon soil	1.0	16.0	27.4	1.0	1.0	
14274	578751	5661293	NAD27	21	B-horizon soil	1.0	17.7	93.3	16.9	1.0	
14275	578776	5661297	NAD27	21	B-horizon soil	48.8	186.3	177.2	69.9	1.0	
14276	578831	5661299	NAD27	21	B-horizon soil	1.0	16.6	100.7	1.0	1.0	
14277	578960	5661298	NAD27	21	B-horizon soil	1.0	18.7	114.9	20.9	1.0	
14278	578984	5661298	NAD27	21	B-horizon soil	35.6	27.4	64.7	19.0	1.0	
14279	579008	5661301	NAD27	21	B-horizon soil	1.0	28.4	70.0	18.8	1.0	
14280	579031	5661301	NAD27	21	B-horizon soil	1.0	19.7	76.5	17.4	1.0	
14281	579056	5661302	NAD27	21	B-horizon soil	1.0	11.2	34.0	7.3	1.0	
14282	579081	5661306	NAD27	21	B-horizon soil	1.0	23.1	73.4	9.1	1.0	
14283	579106	5661298	NAD27	21	B-horizon soil	1.0	35.1	136.2	13.4	1.0	
14284	579131	5661304	NAD27	21	B-horizon soil	1.0	9.9	33.3	11.4	1.0	
14285	579157	5661302	NAD27	21	B-horizon soil	1.0	18.8	47.2	18.2	1.0	
14286	579181	5661301	NAD27	21	B-horizon soil	1.0	12.5	82.2	10.3	1.0	
14287	579212	5661297	NAD27	21	B-horizon soil	1.0	19.4	87.2	17.1	1.0	
14288	579236	5661297	NAD27	21	B-horizon soil	1.0	17.5	29.1	1.0	1.0	
14289	579260	5661301	NAD27	21	B-horizon soil	1.0	19.9	71.6	13.8	1.0	
14290	579280	5661302	NAD27	21	B-horizon soil	1.0	13.4	48.8	15.7	1.0	
14291	579307	5661297	NAD27	21	B-horizon soil	1.0	18.3	87.4	12.1	17.5	
14292	579330	5661292	NAD27	21	B-horizon soil	1.0	15.8	60.0	9.8	25.0	
14293	579355	5661301	NAD27	21	B-horizon soil	1.0	19.0	51.1	10.1	1.0	
14294	579379	5661301	NAD27	21	B-horizon soil	1.0	1.0	24.7	7.0	1.0	
14295	579406	5661297	NAD27	21	B-horizon soil	1.0	46.8	317.4	1.0	1.0	
14296	579434	5661298	NAD27	21	B-horizon soil	1.0	16.7	19.6	1.0	1.0	
14297	579452	5661300	NAD27	21	B-horizon soil	1.0	13.6	25.0	1.0	1.0	
14298	579478	5661305	NAD27	21	B-horizon soil	1.0	22.9	116.7	8.8	1.0	
14299	579503	5661299	NAD27	21	B-horizon soil	1.0	15.2	50.0	13.2	1.0	
14300	579534	5661298	NAD27	21	B-horizon soil	1.0	14.1	27.3	7.6	1.0	
14301	577986	5658699	NAD27	21	B-horizon soil	1.0	40.2	97.9	13.8	1.0	
14302	577963	5658702	NAD27	21	B-horizon soil	1.0	22.9	63.4	17.4	1.0	
14303	577840	5658696	NAD27	21	B-horizon soil	1.0	1.0	24.0	17.4	1.0	
14304	577821	5658697	NAD27	21	B-horizon soil	1.0	1.0	13.3	9.1	1.0	
14305	577795	5658701	NAD27	21	B-horizon soil	1.0	11.1	45.7	11.1	1.0	
14306	577767	5658703	NAD27	21	B-horizon soil	61.6	42.3	164.6	29.4	1.0	
14307	577740	5658701	NAD27	21	B-horizon soil	1.0	20.1	68.9	14.0	1.0	
14308	577612	5659900	NAD27	21	B-horizon soil	45.7	21.0	71.5	8.9	28.5	
14309	577637	5659898	NAD27	21	B-horizon soil	36.5	20.9	42.1	1.0	1.0	
14310	577662	5659891	NAD27	21	B-horizon soil	1.0	20.2	66.8	16.6	1.0	
14311	577689	5659900	NAD27	21	B-horizon soil	1.0	24.2	71.1	26.9	1.0	
14312	577712	5659901	NAD27	21	B-horizon soil	1.0	1.0	34.8	7.2	1.0	
14313	577699	5659698	NAD27	21	B-horizon soil	40.4	1.0	99.1	12.0	1.0	
14314	577673	5659695	NAD27	21	B-horizon soil	1.0	18.8	95.8	28.5	1.0	
14315	577648	5659699	NAD27	21	B-horizon soil	1.0	1.0	46.1	13.0	1.0	
14316	577621	5659698	NAD27	21	B-horizon soil	1.0	14.7	30.0	9.2	1.0	
14317	577598	5659698	NAD27	21	B-horizon soil	1.0	25.2	74.6	10.4	1.0	
14318	577576	5659697	NAD27	21	B-horizon soil	93.7	21.2	94.3	14.4	23.7	
14319	577523	5659696	NAD27	21	B-horizon soil	1.0	48.0	89.0	16.2	1.0	
14320	577503	5659700	NAD27	21	B-horizon soil	1.0	36.8	76.3	22.3	1.0	
14321	577473	5659698	NAD27	21	B-horizon soil	1.0	1.0	39.3	15.6	1.0	
14322	577443	5659702	NAD27	21	B-horizon soil	36.2	29.4	225.7	15.8	1.0	
14323	577422	5659703	NAD27	21	B-horizon soil	1.0	24.3	87.4	25.1	1.0	
14324	577397	5659703	NAD27	21	B-horizon soil	1.0	19.1	106.2	23.8	1.0	
14325	577374	5659702	NAD27	21	B-horizon soil	1.0	22.6	136.2	13.5	1.0	
14326	577348	5659704	NAD27	21	B-horizon soil	1.0	17.9	47.1	11.6	1.0	

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Sample Number	UTM Easting	UTM Northing	Datum	Zone	Sample Medium	pXRF Cu(ppm)	pXRF Pb(ppm)	pXRF Zn(ppm)	pXRF As(ppm)	pXRF Sb(ppm)	Check Analysis - Certificate Reference
14327	577323	5659701	NAD27	21	B-horizon soil	1.0	30.0	95.6	12.7	1.0	
14328	577298	5659699	NAD27	21	B-horizon soil	1.0	31.2	151.6	1.0	1.0	
14329	577273	5659706	NAD27	21	B-horizon soil	1.0	10.0	41.0	12.3	1.0	
14330	577252	5659704	NAD27	21	B-horizon soil	1.0	35.2	109.5	15.6	1.0	
14331	577279	5659905	NAD27	21	B-horizon soil	1.0	18.3	38.3	11.1	1.0	
14332	577303	5659905	NAD27	21	B-horizon soil	32.6	24.6	115.9	24.8	1.0	
14333	577325	5659904	NAD27	21	B-horizon soil	36.4	66.2	136.9	15.9	1.0	
14334	577352	5659901	NAD27	21	B-horizon soil	1.0	32.1	110.1	20.8	1.0	
14335	577376	5659904	NAD27	21	B-horizon soil	1.0	23.8	149.7	10.5	1.0	
14336	577411	5659904	NAD27	21	B-horizon soil	1.0	41.7	194.1	16.2	1.0	
14337	577554	5659904	NAD27	21	B-horizon soil	1.0	26.6	53.4	13.4	1.0	
14338	577573	5659898	NAD27	21	B-horizon soil	153.8	63.1	183.8	84.4	39.0	
14339	577856	5660103	NAD27	21	B-horizon soil	52.4	238.2	262.0	22.8	14.2	
14340	577830	5660106	NAD27	21	B-horizon soil	319.5	67.6	180.8	17.3	23.8	
14341	577654	5660105	NAD27	21	B-horizon soil	1.0	20.9	88.5	15.4	28.3	
14342	577628	5660108	NAD27	21	B-horizon soil	35.0	29.5	96.3	1.0	19.2	
14343	577728	5660701	NAD27	21	B-horizon soil	1.0	1.0	44.3	20.5	1.0	
14344	577701	5660700	NAD27	21	B-horizon soil	34.7	24.2	97.2	19.2	1.0	
14345	577683	5660696	NAD27	21	B-horizon soil	1.0	15.6	28.3	1.0	1.0	
14346	577651	5660698	NAD27	21	B-horizon soil	1.0	24.8	88.5	1.0	1.0	
14347	577604	5660697	NAD27	21	B-horizon soil	46.3	24.3	70.1	1.0	16.9	
14348	577578	5660703	NAD27	21	B-horizon soil	1.0	18.3	72.5	1.0	1.0	
14349	577552	5660703	NAD27	21	B-horizon soil	1.0	19.7	83.3	14.0	1.0	
14350	577508	5660698	NAD27	21	B-horizon soil	1.0	17.5	66.3	7.3	1.0	
14351	577483	5660700	NAD27	21	B-horizon soil	1.0	13.7	58.3	1.0	1.0	
14352	577452	5660697	NAD27	21	B-horizon soil	1.0	25.1	55.1	1.0	1.0	
14353	577428	5660697	NAD27	21	B-horizon soil	1.0	22.3	63.8	17.5	1.0	
14354	577404	5660704	NAD27	21	B-horizon soil	1.0	27.3	51.6	19.0	1.0	
14355	577357	5660701	NAD27	21	B-horizon soil	1.0	20.5	136.4	9.8	1.0	
14356	577333	5660696	NAD27	21	B-horizon soil	1.0	26.7	40.2	1.0	1.0	
14357	577304	5660701	NAD27	21	B-horizon soil	1.0	10.1	44.7	9.9	1.0	
14358	577279	5660694	NAD27	21	B-horizon soil	1.0	16.5	82.1	20.8	1.0	
14359	577225	5660690	NAD27	21	B-horizon soil	26.9	15.7	49.5	14.0	1.0	
14360	577203	5660695	NAD27	21	B-horizon soil	1.0	26.1	104.6	16.8	1.0	
14361	577131	5660693	NAD27	21	B-horizon soil	1.0	1.0	42.7	15.7	1.0	
14362	577106	5660693	NAD27	21	B-horizon soil	1.0	15.3	101.1	9.1	1.0	
14363	577213	5660493	NAD27	21	B-horizon soil	1.0	23.9	83.9	18.1	1.0	
14364	577262	5660495	NAD27	21	B-horizon soil	115.8	33.2	149.9	42.2	21.5	
14365	577292	5660502	NAD27	21	B-horizon soil	1.0	20.1	98.6	1.0	1.0	
14366	577338	5660505	NAD27	21	B-horizon soil	30.1	1.0	91.8	15.5	1.0	
14367	577443	5660494	NAD27	21	B-horizon soil	1.0	15.1	77.2	9.7	1.0	
14368	577463	5660496	NAD27	21	B-horizon soil	28.6	22.1	69.1	10.9	16.1	
14369	577486	5660496	NAD27	21	B-horizon soil	1.0	24.5	43.1	11.6	1.0	
14370	577523	5660499	NAD27	21	B-horizon soil	1.0	19.0	68.4	8.1	1.0	
14371	577545	5660503	NAD27	21	B-horizon soil	1.0	22.9	67.5	1.0	15.0	
14372	577866	5660898	NAD27	21	B-horizon soil	1.0	29.7	58.3	18.8	1.0	
14373	577838	5660901	NAD27	21	B-horizon soil	1.0	18.2	57.5	14.8	1.0	
14374	577810	5660900	NAD27	21	B-horizon soil	1.0	21.9	73.9	8.6	22.5	
14375	577785	5660895	NAD27	21	B-horizon soil	1.0	12.2	59.7	15.6	1.0	
14376	577765	5660894	NAD27	21	B-horizon soil	1.0	37.5	87.5	15.1	1.0	
14377	577741	5660898	NAD27	21	B-horizon soil	39.6	15.3	47.3	16.6	1.0	
14378	577713	5660905	NAD27	21	B-horizon soil	1.0	31.4	102.8	1.0	1.0	
14379	577686	5660904	NAD27	21	B-horizon soil	1.0	22.9	101.8	11.5	1.0	
14380	577662	5660906	NAD27	21	B-horizon soil	1.0	13.1	76.7	1.0	1.0	
14381	577641	5660905	NAD27	21	B-horizon soil	1.0	11.9	59.5	20.6	1.0	
14382	577592	5660906	NAD27	21	B-horizon soil	1.0	12.4	38.1	30.9	1.0	
14383	577564	5660905	NAD27	21	B-horizon soil	1.0	12.9	52.8	9.3	1.0	
14384	577538	5660904	NAD27	21	B-horizon soil	1.0	15.7	86.4	10.3	13.7	
14385	577511	5660905	NAD27	21	B-horizon soil	1.0	25.7	111.6	1.0	1.0	
14386	577484	5660904	NAD27	21	B-horizon soil	1.0	23.2	158.7	8.3	1.0	

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Sample Number	UTM Easting	UTM Northing	Datum	Zone	Sample Medium	pXRF Cu(ppm)	pXRF Pb(ppm)	pXRF Zn(ppm)	pXRF As(ppm)	pXRF Sb(ppm)	Check Analysis - Certificate Reference
14387	577462	5660908	NAD27	21	B-horizon soil	1.0	13.8	75.2	1.0	1.0	
14388	577514	5661100	NAD27	21	B-horizon soil	1.0	18.4	161.5	9.4	1.0	
14389	577539	5661096	NAD27	21	B-horizon soil	1.0	26.2	166.2	12.7	1.0	
14390	577564	5661094	NAD27	21	B-horizon soil	1.0	14.9	83.7	13.6	1.0	
14391	577590	5661093	NAD27	21	B-horizon soil	38.9	32.5	52.7	29.1	1.0	
14392	577625	5661093	NAD27	21	B-horizon soil	1.0	16.6	58.7	22.3	1.0	
14393	577644	5661097	NAD27	21	B-horizon soil	1.0	23.5	65.4	55.9	1.0	
14394	577665	5661091	NAD27	21	B-horizon soil	1.0	34.0	192.1	118.4	1.0	
14395	577694	5661093	NAD27	21	B-horizon soil	41.1	34.0	167.2	115.3	1.0	
14396	577714	5661096	NAD27	21	B-horizon soil	1.0	21.8	89.9	27.6	1.0	
14397	577741	5661096	NAD27	21	B-horizon soil	1.0	21.2	63.8	1.0	1.0	
14398	577763	5661094	NAD27	21	B-horizon soil	1.0	20.8	56.3	14.9	18.6	
14399	577788	5661092	NAD27	21	B-horizon soil	1.0	9.8	34.4	16.7	1.0	
14400	577817	5661092	NAD27	21	B-horizon soil	1.0	21.5	64.7	16.2	1.0	
14401	576910	5658699	NAD27	21	B-horizon soil	1.0	22.7	98.9	26.9	1.0	
14402	576933	5658701	NAD27	21	B-horizon soil	1.0	21.5	82.8	9.1	20.5	
14403	577033	5658703	NAD27	21	B-horizon soil	1.0	27.8	139.3	17.0	15.1	
14404	577059	5658703	NAD27	21	B-horizon soil	96.1	29.5	251.0	34.4	1.0	
14405	577083	5658707	NAD27	21	B-horizon soil	37.6	43.1	249.3	38.7	12.4	
14406	577101	5658703	NAD27	21	B-horizon soil	54.6	23.6	422.0	44.1	1.0	
14407	577134	5658700	NAD27	21	B-horizon soil	168.6	84.2	318.2	16.7	14.5	
14408	577158	5658704	NAD27	21	B-horizon soil	57.3	26.3	99.1	24.5	24.7	
14409	577182	5658702	NAD27	21	B-horizon soil	1.0	1.0	54.3	18.8	1.0	
14410	577214	5658698	NAD27	21	B-horizon soil	1.0	11.7	28.5	1.0	1.0	
14411	577234	5658698	NAD27	21	B-horizon soil	27.2	11.1	37.7	14.9	1.0	
14412	577258	5658699	NAD27	21	B-horizon soil	30.3	39.3	98.8	1.0	1.0	
14413	577007	5659102	NAD27	21	B-horizon soil	1.0	37.9	72.4	11.0	1.0	
14414	577031	5659100	NAD27	21	B-horizon soil	1.0	26.3	110.6	13.3	1.0	
14415	577057	5659097	NAD27	21	B-horizon soil	1.0	31.3	112.6	35.9	1.0	
14416	577081	5659097	NAD27	21	B-horizon soil	1.0	43.6	167.1	16.2	1.0	
14417	577106	5659101	NAD27	21	B-horizon soil	1.0	36.1	165.8	24.0	1.0	
14418	577142	5659094	NAD27	21	B-horizon soil	1.0	31.4	142.3	28.4	1.0	
14419	577167	5659093	NAD27	21	B-horizon soil	1.0	42.0	133.9	21.2	1.0	
14420	577185	5659093	NAD27	21	B-horizon soil	1.0	20.3	57.0	21.2	1.0	
14421	577208	5659090	NAD27	21	B-horizon soil	183.4	2412.3	380.4	1160.8	155.1	
14422	577228	5659091	NAD27	21	B-horizon soil	1.0	9.2	52.1	25.6	1.0	
14423	577254	5659100	NAD27	21	B-horizon soil	1.0	145.8	110.9	58.5	1.0	
14424	577283	5659101	NAD27	21	B-horizon soil	1.0	21.3	142.0	1.0	1.0	
14425	577308	5659099	NAD27	21	B-horizon soil	1.0	69.7	98.6	24.5	1.0	
14426	577335	5659100	NAD27	21	B-horizon soil	41.2	31.5	94.9	46.0	1.0	
14427	577359	5659098	NAD27	21	B-horizon soil	1.0	21.1	45.1	20.6	1.0	
14428	577383	5659099	NAD27	21	B-horizon soil	1.0	18.3	49.4	11.6	1.0	
14429	577406	5659099	NAD27	21	B-horizon soil	1.0	11.4	28.7	12.1	1.0	
14430	577445	5659103	NAD27	21	B-horizon soil	1.0	21.0	72.4	12.8	1.0	
14431	577470	5659095	NAD27	21	B-horizon soil	54.4	136.9	145.9	22.0	18.5	
14432	577498	5659093	NAD27	21	B-horizon soil	1.0	25.7	70.4	11.2	1.0	
14433	577520	5659101	NAD27	21	B-horizon soil	1.0	27.0	112.8	20.2	1.0	
14434	577595	5659501	NAD27	21	B-horizon soil	94.0	55.9	149.6	26.3	13.1	
14435	577567	5659503	NAD27	21	B-horizon soil	1.0	38.5	103.7	19.6	1.0	
14436	577516	5659505	NAD27	21	B-horizon soil	1.0	27.4	129.4	30.8	1.0	
14437	577491	5659505	NAD27	21	B-horizon soil	1.0	15.2	71.0	24.1	1.0	
14438	577464	5659503	NAD27	21	B-horizon soil	1.0	25.4	248.8	8.9	1.0	
14439	577441	5659504	NAD27	21	B-horizon soil	1.0	1.0	22.1	6.9	1.0	
14440	577421	5659496	NAD27	21	B-horizon soil	1.0	20.6	98.7	20.4	1.0	
14441	577392	5659495	NAD27	21	B-horizon soil	1.0	16.9	39.2	24.9	1.0	
14442	577369	5659501	NAD27	21	B-horizon soil	1.0	48.6	133.3	48.9	1.0	
14443	577341	5659510	NAD27	21	B-horizon soil	1.0	28.2	177.6	13.3	1.0	
14444	577320	5659504	NAD27	21	B-horizon soil	1.0	32.0	101.2	1.0	1.0	
14445	577295	5659500	NAD27	21	B-horizon soil	1.0	27.3	119.0	22.5	1.0	
14446	577264	5659502	NAD27	21	B-horizon soil	1.0	1.0	29.7	8.3	42.3	

Appendix 2: Sail Pond Soil Sample List

Sample Number	UTM Easting	UTM Northing	Datum	Zone	Sample Medium	pXRF Cu(ppm)	pXRF Pb(ppm)	pXRF Zn(ppm)	pXRF As(ppm)	pXRF Sb(ppm)	Check Analysis - Certificate Reference
14447	577242	5659508	NAD27	21	B-horizon soil	1.0	20.5	52.9	16.1	1.0	
14448	577215	5659507	NAD27	21	B-horizon soil	1.0	32.0	105.0	15.5	1.0	
14449	577189	5659503	NAD27	21	B-horizon soil	1.0	24.5	83.8	1.0	1.0	
14450	577867	5658500	NAD27	21	B-horizon soil	1.0	23.7	37.6	39.0	1.0	
14451	577894	5658504	NAD27	21	B-horizon soil	1.0	18.8	56.2	72.6	1.0	
14452	577918	5658505	NAD27	21	B-horizon soil	1.0	29.5	29.1	13.7	1.0	
14453	577943	5658504	NAD27	21	B-horizon soil	31.1	21.6	65.8	37.3	1.0	
14454	577971	5658495	NAD27	21	B-horizon soil	1.0	37.5	52.7	14.8	1.0	
14455	577991	5658494	NAD27	21	B-horizon soil	1.0	17.4	40.1	12.9	1.0	
14456	578017	5658498	NAD27	21	B-horizon soil	1.0	11.2	57.5	21.5	1.0	
14457	578045	5658504	NAD27	21	B-horizon soil	1.0	31.9	76.4	27.6	1.0	
14458	578068	5658505	NAD27	21	B-horizon soil	1.0	20.3	46.3	23.1	1.0	
14459	578118	5658500	NAD27	21	B-horizon soil	1.0	47.4	178.2	16.4	1.0	
14460	578147	5658499	NAD27	21	B-horizon soil	1.0	44.2	219.4	1.0	1.0	
14461	578197	5658500	NAD27	21	B-horizon soil	1.0	18.4	53.4	1.0	1.0	
14462	578219	5658504	NAD27	21	B-horizon soil	1.0	20.0	70.7	1.0	1.0	
14463	578246	5658504	NAD27	21	B-horizon soil	1.0	12.6	32.6	10.7	1.0	
14464	578367	5658502	NAD27	21	B-horizon soil	1.0	24.4	55.1	25.6	1.0	
14465	578295	5658496	NAD27	21	B-horizon soil	1.0	17.1	60.9	1.0	1.0	
14466	578325	5658498	NAD27	21	B-horizon soil	1.0	24.8	68.0	25.3	1.0	
14467	578346	5658496	NAD27	21	B-horizon soil	1.0	19.2	66.4	18.5	1.0	
14468	578368	5658495	NAD27	21	B-horizon soil	1.0	30.9	82.3	11.4	1.0	
14469	578398	5658495	NAD27	21	B-horizon soil	1.0	22.1	38.7	11.6	1.0	
14470	578419	5658494	NAD27	21	B-horizon soil	1.0	16.3	27.6	1.0	1.0	
14471	578444	5658509	NAD27	21	B-horizon soil	1.0	28.5	89.2	10.6	1.0	
14472	578467	5658505	NAD27	21	B-horizon soil	1.0	14.2	49.9	12.7	16.4	
14473	578494	5658506	NAD27	21	B-horizon soil	1.0	1.0	43.6	15.0	1.0	
14474	578522	5658507	NAD27	21	B-horizon soil	1.0	20.2	104.4	19.5	1.0	
14475	578543	5658506	NAD27	21	B-horizon soil	1.0	1.0	22.2	9.1	1.0	
14476	578594	5658496	NAD27	21	B-horizon soil	1.0	23.4	69.2	10.9	24.0	
14477	578620	5658494	NAD27	21	B-horizon soil	1.0	10.0	15.8	1.0	1.0	
14478	578613	5658702	NAD27	21	B-horizon soil	30.5	33.0	52.6	14.0	1.0	
14479	578583	5658703	NAD27	21	B-horizon soil	1.0	29.8	80.5	1.0	1.0	
14480	578563	5658703	NAD27	21	B-horizon soil	1.0	20.3	97.8	14.6	1.0	
14481	578541	5658704	NAD27	21	B-horizon soil	1.0	12.6	29.8	9.0	1.0	
14482	578517	5658704	NAD27	21	B-horizon soil	1.0	25.0	115.2	14.6	1.0	
14483	578488	5658705	NAD27	21	B-horizon soil	41.1	24.5	133.0	25.3	1.0	
14484	578463	5658706	NAD27	21	B-horizon soil	1.0	23.9	64.1	16.7	1.0	
14485	578438	5658706	NAD27	21	B-horizon soil	1.0	22.0	60.4	16.7	1.0	
14486	578417	5658705	NAD27	21	B-horizon soil	1.0	12.4	30.4	12.1	1.0	
14487	578393	5658704	NAD27	21	B-horizon soil	1.0	25.8	74.5	1.0	1.0	
14488	578365	5658707	NAD27	21	B-horizon soil	1.0	30.2	109.4	17.8	1.0	
14489	578338	5658707	NAD27	21	B-horizon soil	1.0	29.4	88.1	19.5	1.0	
14490	578313	5658703	NAD27	21	B-horizon soil	1.0	22.1	109.5	46.8	1.0	
14491	578290	5658704	NAD27	21	B-horizon soil	1.0	26.0	112.6	29.5	1.0	
14492	578262	5658708	NAD27	21	B-horizon soil	30.6	19.2	95.3	27.8	1.0	
14493	578213	5658710	NAD27	21	B-horizon soil	1.0	20.4	81.6	1.0	1.0	
14494	578188	5658712	NAD27	21	B-horizon soil	1.0	1.0	28.6	10.1	1.0	
14495	578160	5658706	NAD27	21	B-horizon soil	1.0	10.9	62.1	1.0	1.0	
14496	578137	5658705	NAD27	21	B-horizon soil	1.0	12.3	23.5	1.0	1.0	
14497	578112	5658700	NAD27	21	B-horizon soil	1.0	20.7	75.5	13.6	1.0	
14498	578063	5658696	NAD27	21	B-horizon soil	1.0	44.2	108.3	44.9	1.0	
14499	578038	5658698	NAD27	21	B-horizon soil	1.0	39.1	111.0	19.6	1.0	
14500	578016	5658698	NAD27	21	B-horizon soil	1.0	34.1	108.7	16.3	1.0	
14501	577417	5657302	NAD27	21	B-horizon soil	1.0	13.3	22.9	1.0	14.3	
14502	577439	5657298	NAD27	21	B-horizon soil	1.0	18.6	64.2	24.8	1.0	
14503	577462	5657303	NAD27	21	B-horizon soil	1.0	39.4	80.2	15.8	1.0	
14504	577490	5657307	NAD27	21	B-horizon soil	1.0	16.6	36.3	14.0	1.0	
14505	577312	5657299	NAD27	21	B-horizon soil	1.0	9.3	31.4	9.8	1.0	
14506	577544	5657302	NAD27	21	B-horizon soil	1.0	17.4	60.6	27.2	13.4	



## Appendix 2: Sail Pond Soil Sample List

Sample Number	UTM Easting	UTM Northing	Datum	Zone	Sample Medium	pXRF Cu(ppm)	pXRF Pb(ppm)	pXRF Zn(ppm)	pXRF As(ppm)	pXRF Sb(ppm)	Check Analysis - Certificate Reference
14507	577569	5657292	NAD27	21	B-horizon soil	1.0	1.0	25.2	6.9	1.0	
14508	577590	5657299	NAD27	21	B-horizon soil	1.0	26.5	85.6	41.0	1.0	
14509	577614	5657302	NAD27	21	B-horizon soil	1.0	16.7	46.7	1.0	25.3	
14510	577640	5657297	NAD27	21	B-horizon soil	1.0	13.2	53.5	8.7	32.2	
14511	577665	5657297	NAD27	21	B-horizon soil	1.0	13.2	13.1	1.0	16.9	
14512	577692	5657295	NAD27	21	B-horizon soil	1.0	26.4	53.1	11.8	1.0	
14513	577716	5657295	NAD27	21	B-horizon soil	1.0	24.9	83.4	10.8	1.0	
14514	577741	5657301	NAD27	21	B-horizon soil	1.0	21.4	38.3	10.5	1.0	
14515	577762	5657298	NAD27	21	B-horizon soil	1.0	36.4	93.4	10.9	1.0	
14516	577791	5657306	NAD27	21	B-horizon soil	1.0	42.8	104.2	12.0	1.0	
14517	577814	5657301	NAD27	21	B-horizon soil	1.0	16.5	122.7	10.4	1.0	
14518	577839	5657304	NAD27	21	B-horizon soil	1.0	18.0	70.9	1.0	1.0	
14519	577857	5657301	NAD27	21	B-horizon soil	1.0	26.8	72.6	12.6	1.0	
14520	577916	5657295	NAD27	21	B-horizon soil	1.0	25.2	119.9	14.9	12.8	
14521	577940	5657298	NAD27	21	B-horizon soil	1.0	15.4	59.5	17.6	18.3	
14523	577961	5657299	NAD27	21	B-horizon soil	1.0	30.9	73.0	1.0	1.0	
14524	577988	5657306	NAD27	21	B-horizon soil	1.0	29.1	105.2	12.2	11.9	
14525	578068	5657301	NAD27	21	B-horizon soil	1.0	16.2	87.3	10.2	19.7	
14526	578147	5657708	NAD27	21	B-horizon soil	1.0	20.2	78.4	8.6	1.0	
14527	578130	5657701	NAD27	21	B-horizon soil	1.0	34.7	110.7	15.2	1.0	
14528	578105	5657702	NAD27	21	B-horizon soil	1.0	23.6	86.5	14.7	1.0	
14529	578076	5657693	NAD27	21	B-horizon soil	1.0	10.2	51.2	11.2	1.0	
14530	578055	5657699	NAD27	21	B-horizon soil	1.0	13.1	88.3	12.4	24.2	
14531	578026	5657702	NAD27	21	B-horizon soil	1.0	24.8	76.6	13.2	29.4	
14532	578000	5657699	NAD27	21	B-horizon soil	1.0	19.8	88.0	10.8	22.8	
14533	577975	5657707	NAD27	21	B-horizon soil	1.0	24.5	72.8	1.0	1.0	
14534	577922	5657698	NAD27	21	B-horizon soil	1.0	17.7	68.4	8.2	20.7	
14535	577901	5657699	NAD27	21	B-horizon soil	1.0	17.0	76.0	11.2	20.9	
14536	577878	5657707	NAD27	21	B-horizon soil	1.0	16.2	37.2	10.3	1.0	
14537	577854	5657696	NAD27	21	B-horizon soil	1.0	17.1	46.0	11.4	1.0	
14538	577833	5657699	NAD27	21	B-horizon soil	1.0	13.3	29.4	1.0	1.0	
14539	577803	5657699	NAD27	21	B-horizon soil	1.0	11.5	34.2	9.0	1.0	
14540	577779	5657706	NAD27	21	B-horizon soil	1.0	31.4	78.5	28.4	1.0	
14541	577756	5657700	NAD27	21	B-horizon soil	1.0	15.9	40.4	16.3	1.0	
14542	577678	5657708	NAD27	21	B-horizon soil	1.0	15.3	43.3	1.0	22.1	
14543	577655	5657695	NAD27	21	B-horizon soil	1.0	53.9	100.1	15.9	1.0	
14544	577629	5657701	NAD27	21	B-horizon soil	1.0	22.1	79.1	10.9	1.0	
14545	577607	5657710	NAD27	21	B-horizon soil	1.0	16.9	53.8	14.6	1.0	
14546	577573	5657699	NAD27	21	B-horizon soil	1.0	35.3	126.3	14.0	1.0	
14547	577557	5657705	NAD27	21	B-horizon soil	1.0	37.5	116.7	24.2	1.0	
14548	577739	5658099	NAD27	21	B-horizon soil	1.0	41.5	53.7	39.3	1.0	
14549	577714	5658096	NAD27	21	B-horizon soil	1.0	32.0	75.1	18.0	1.0	
14552	577690	5658092	NAD27	21	B-horizon soil	1.0	27.7	77.9	10.9	1.0	
14553	577665	5658092	NAD27	21	B-horizon soil	1.0	19.8	23.8	1.0	1.0	
14554	577561	5658103	NAD27	21	B-horizon soil	1.0	30.3	127.1	21.7	1.0	
14555	577537	5658102	NAD27	21	B-horizon soil	1.0	29.7	131.6	10.5	1.0	
14556	577512	5658100	NAD27	21	B-horizon soil	1.0	20.0	47.5	17.0	1.0	
14557	577487	5658103	NAD27	21	B-horizon soil	1.0	30.3	45.1	42.0	14.0	
14558	577462	5658105	NAD27	21	B-horizon soil	1.0	32.1	79.5	1.0	1.0	
14559	577437	5658099	NAD27	21	B-horizon soil	1.0	40.8	82.7	17.6	1.0	
14560	577411	5658094	NAD27	21	B-horizon soil	1.0	47.5	93.7	41.5	1.0	
14561	577387	5658094	NAD27	21	B-horizon soil	55.3	28.8	78.2	21.8	20.2	
14562	577362	5658095	NAD27	21	B-horizon soil	1.0	23.2	110.2	78.8	1.0	
14563	577338	5658096	NAD27	21	B-horizon soil	1.0	15.8	111.7	1.0	1.0	
14564	577316	5658097	NAD27	21	B-horizon soil	1.0	23.0	74.7	9.5	1.0	
14565	577293	5658101	NAD27	21	B-horizon soil	1.0	37.9	129.1	15.8	1.0	
14566	577265	5658097	NAD27	21	B-horizon soil	1.0	23.8	138.7	16.4	1.0	
14567	577241	5658097	NAD27	21	B-horizon soil	1.0	25.1	103.7	20.9	11.7	
14568	577216	5658095	NAD27	21	B-horizon soil	1.0	1.0	58.8	7.0	1.0	
14569	577187	5658094	NAD27	21	B-horizon soil	58.2	43.1	147.4	22.1	1.0	

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Sample Number	UTM Easting	UTM Northing	Datum	Zone	Sample Medium	pXRF Cu(ppm)	pXRF Pb(ppm)	pXRF Zn(ppm)	pXRF As(ppm)	pXRF Sb(ppm)	Check Analysis - Certificate Reference
14570	577161	5658090	NAD27	21	B-horizon soil	1.0	19.4	79.1	17.2	1.0	
14571	577139	5658093	NAD27	21	B-horizon soil	1.0	23.8	108.6	11.4	1.0	
14572	577111	5658101	NAD27	21	B-horizon soil	32.6	23.8	68.2	11.8	24.7	
14573	577084	5658099	NAD27	21	B-horizon soil	1.0	17.5	71.3	12.9	1.0	
14574	577059	5658106	NAD27	21	B-horizon soil	1.0	12.8	72.8	20.1	13.1	
14575	577035	5658103	NAD27	21	B-horizon soil	1.0	23.2	102.2	12.4	1.0	
14576	577013	5658105	NAD27	21	B-horizon soil	1.0	21.8	173.9	1.0	13.5	
14577	576981	5658097	NAD27	21	B-horizon soil	1.0	20.3	73.8	9.1	21.2	
14578	576961	5658097	NAD27	21	B-horizon soil	1.0	24.9	96.7	26.4	31.3	
14579	576934	5658103	NAD27	21	B-horizon soil	1.0	45.4	79.4	11.7	13.0	
14580	576909	5658110	NAD27	21	B-horizon soil	1.0	20.0	64.7	9.2	27.0	
14581	576857	5658103	NAD27	21	B-horizon soil	1.0	29.4	158.7	17.2	17.5	
14582	576888	5658499	NAD27	21	B-horizon soil	1.0	64.6	112.8	1.0	1.0	
14583	576733	5658501	NAD27	21	B-horizon soil	1.0	40.4	64.2	1.0	1.0	
14584	576765	5658501	NAD27	21	B-horizon soil	1.0	25.9	128.6	9.8	1.0	
14586	576792	5658497	NAD27	21	B-horizon soil	1.0	12.8	54.5	82.7	1.0	
14587	576811	5658495	NAD27	21	B-horizon soil	1.0	23.6	148.9	26.0	1.0	
14588	576833	5658491	NAD27	21	B-horizon soil	1.0	79.1	87.4	28.1	1.0	
14589	576890	5658501	NAD27	21	B-horizon soil	1.0	18.7	41.3	14.6	1.0	
14590	576919	5658502	NAD27	21	B-horizon soil	1.0	43.1	153.2	30.8	1.0	
14591	576942	5658505	NAD27	21	B-horizon soil	1.0	1.0	26.3	12.1	1.0	
14592	576966	5658503	NAD27	21	B-horizon soil	1.0	28.6	78.8	25.2	1.0	
14593	576992	5658502	NAD27	21	B-horizon soil	1.0	10.6	47.3	13.9	1.0	
14594	577020	5658506	NAD27	21	B-horizon soil	1.0	24.3	68.6	12.8	1.0	
14595	577087	5658505	NAD27	21	B-horizon soil	1.0	9.7	43.7	8.6	1.0	
14596	576783	5658700	NAD27	21	B-horizon soil	1.0	18.5	53.6	1.0	1.0	
14597	576810	5658697	NAD27	21	B-horizon soil	1.0	11.7	75.6	6.9	1.0	
14598	576834	5658698	NAD27	21	B-horizon soil	1.0	15.0	62.7	1.0	1.0	
14599	576860	5658701	NAD27	21	B-horizon soil	1.0	18.9	104.9	11.7	1.0	
14600	576886	5658701	NAD27	21	B-horizon soil	1.0	71.2	286.5	18.6	1.0	
14601	574323	5650008	NAD27	21	B-horizon soil	1.0	18.7	53.1	1.0	1.0	
14602	574298	5650008	NAD27	21	B-horizon soil	1.0	25.2	79.6	10.0	1.0	
14603	574269	5650003	NAD27	21	B-horizon soil	1.0	30.1	100.6	10.1	1.0	
14604	574241	5650005	NAD27	21	B-horizon soil	1.0	27.6	84.5	10.1	1.0	
14605	574222	5650004	NAD27	21	B-horizon soil	1.0	9.4	42.9	1.0	1.0	
14606	574202	5650000	NAD27	21	B-horizon soil	1.0	36.6	104.2	13.7	1.0	
14607	574173	5650004	NAD27	21	B-horizon soil	1.0	19.1	77.5	10.3	1.0	
14608	574144	5650006	NAD27	21	B-horizon soil	30.2	20.3	93.3	9.1	1.0	
14609	574120	5650002	NAD27	21	B-horizon soil	35.1	19.8	88.4	13.2	1.0	
14610	574102	5650003	NAD27	21	B-horizon soil	1.0	27.4	107.8	1.0	1.0	
14611	577178	5656901	NAD27	21	B-horizon soil	1.0	16.6	36.6	7.8	1.0	
14612	577154	5656902	NAD27	21	B-horizon soil	1.0	17.4	68.8	11.4	12.0	
14613	577127	5656900	NAD27	21	B-horizon soil	1.0	18.9	73.8	11.8	1.0	
14614	577101	5656898	NAD27	21	B-horizon soil	1.0	16.7	34.5	8.6	1.0	
14615	577080	5656890	NAD27	21	B-horizon soil	1.0	27.0	49.3	11.1	1.0	
14616	576951	5656900	NAD27	21	B-horizon soil	1.0	8.7	30.1	6.8	1.0	
14618	576926	5656897	NAD27	21	B-horizon soil	1.0	15.8	30.0	8.5	1.0	
14619	576902	5656896	NAD27	21	B-horizon soil	1.0	26.7	34.2	12.6	1.0	
14620	576877	5656896	NAD27	21	B-horizon soil	1.0	14.7	39.1	11.8	1.0	
14621	576850	5656900	NAD27	21	B-horizon soil	1.0	15.9	71.0	9.1	31.8	
14622	576832	5656894	NAD27	21	B-horizon soil	1.0	8.5	24.4	1.0	1.0	
14623	576805	5656896	NAD27	21	B-horizon soil	1.0	18.9	56.8	1.0	1.0	
14624	576783	5656899	NAD27	21	B-horizon soil	32.5	23.9	71.6	14.4	23.4	
14625	576755	5656896	NAD27	21	B-horizon soil	1.0	12.2	61.6	39.9	1.0	
14626	576731	5656900	NAD27	21	B-horizon soil	1.0	32.4	73.8	17.8	1.0	
14627	576704	5656895	NAD27	21	B-horizon soil	1.0	20.2	117.6	32.4	1.0	
14628	576680	5656897	NAD27	21	B-horizon soil	1.0	1.0	18.3	6.7	1.0	
14629	576653	5656894	NAD27	21	B-horizon soil	1.0	9.0	40.6	1.0	1.0	
14630	576627	5656893	NAD27	21	B-horizon soil	1.0	15.2	58.5	1.0	1.0	
14631	576600	5656896	NAD27	21	B-horizon soil	1.0	10.5	41.8	7.6	1.0	

Appendix 2: Sail Pond Soil Sample List

Sample Number	UTM Easting	UTM Northing	Datum	Zone	Sample Medium	pXRF Cu(ppm)	pXRF Pb(ppm)	pXRF Zn(ppm)	pXRF As(ppm)	pXRF Sb(ppm)	Check Analysis - Certificate Reference
14632	576576	5656898	NAD27	21	B-horizon soil	1.0	1.0	20.6	11.4	1.0	
14633	576547	5656895	NAD27	21	B-horizon soil	1.0	29.3	105.2	1.0	1.0	
14634	576524	5656892	NAD27	21	B-horizon soil	1.0	18.9	80.3	21.5	1.0	
14635	576502	5656892	NAD27	21	B-horizon soil	1.0	15.3	42.4	1.0	1.0	
14636	576478	5656898	NAD27	21	B-horizon soil	1.0	11.0	26.2	1.0	1.0	
14637	576449	5656901	NAD27	21	B-horizon soil	1.0	32.7	146.2	19.8	1.0	
14638	576426	5656895	NAD27	21	B-horizon soil	1.0	10.5	28.6	8.7	1.0	
14639	576398	5656891	NAD27	21	B-horizon soil	1.0	21.5	39.9	1.0	1.0	
14640	576896	5656894	NAD27	21	B-horizon soil	1.0	22.3	61.8	8.8	1.0	
14641	576349	5656893	NAD27	21	B-horizon soil	56.0	20.7	95.2	15.4	14.7	
14642	576319	5656895	NAD27	21	B-horizon soil	1.0	20.2	72.6	13.9	1.0	
14643	576303	5656897	NAD27	21	B-horizon soil	1.0	23.0	81.1	45.4	1.0	
14644	576275	5656900	NAD27	21	B-horizon soil	1.0	23.2	96.8	20.2	1.0	
14645	576250	5656902	NAD27	21	B-horizon soil	1.0	55.7	133.3	32.2	1.0	
14646	576226	5656901	NAD27	21	B-horizon soil	1.0	20.5	80.3	1.0	1.0	
14647	576199	5656895	NAD27	21	B-horizon soil	1.0	13.6	24.9	7.1	1.0	
14648	576176	5656900	NAD27	21	B-horizon soil	1.0	9.6	22.0	1.0	1.0	
14649	576156	5656899	NAD27	21	B-horizon soil	1.0	13.4	45.6	11.0	1.0	
14650	576126	5656895	NAD27	21	B-horizon soil	1.0	27.8	82.7	11.0	1.0	
14651	576103	5656897	NAD27	21	B-horizon soil	1.0	34.6	196.6	22.6	1.0	
14652	576078	5656892	NAD27	21	B-horizon soil	1.0	20.6	28.0	1.0	1.0	
14653	576049	5656894	NAD27	21	B-horizon soil	1.0	19.9	281.3	10.0	1.0	
14654	576024	5656892	NAD27	21	B-horizon soil	1.0	34.7	73.9	1.0	1.0	
14655	576002	5656890	NAD27	21	B-horizon soil	1.0	9.9	12.1	8.3	17.1	
14656	576008	5657300	NAD27	21	B-horizon soil	1.0	13.5	112.2	7.4	1.0	
14657	576037	5657298	NAD27	21	B-horizon soil	1.0	1.0	37.2	12.7	1.0	
14658	576061	5657300	NAD27	21	B-horizon soil	1.0	27.3	80.4	14.3	1.0	
14659	576086	5657305	NAD27	21	B-horizon soil	34.2	28.4	57.9	1.0	23.8	
14660	576107	5657303	NAD27	21	B-horizon soil	1.0	18.6	81.5	11.7	26.5	
14661	576136	5657307	NAD27	21	B-horizon soil	1.0	19.0	50.7	10.6	16.2	
14662	576165	5657300	NAD27	21	B-horizon soil	104.3	31.1	97.8	20.6	1.0	
14663	576186	5657296	NAD27	21	B-horizon soil	1.0	16.9	45.0	19.0	1.0	
14664	576208	5657303	NAD27	21	B-horizon soil	1.0	21.1	89.7	20.6	1.0	
14665	576234	5657302	NAD27	21	B-horizon soil	1.0	55.9	228.9	40.1	1.0	
14666	576264	5657299	NAD27	21	B-horizon soil	41.0	27.4	76.1	18.6	1.0	
14667	576286	5657302	NAD27	21	B-horizon soil	106.7	115.9	285.4	21.5	1.0	
14668	576309	5657304	NAD27	21	B-horizon soil	1.0	68.7	141.0	24.4	1.0	
14669	576337	5657305	NAD27	21	B-horizon soil	1.0	20.3	89.8	13.7	1.0	
14670	576360	5657306	NAD27	21	B-horizon soil	1.0	21.4	46.9	17.5	1.0	
14671	576391	5657310	NAD27	21	B-horizon soil	1.0	47.0	79.8	36.3	1.0	
14672	576410	5657319	NAD27	21	B-horizon soil	1.0	14.6	33.3	17.1	1.0	
14673	576440	5657306	NAD27	21	B-horizon soil	1.0	1.0	27.9	7.3	1.0	
14674	576462	5657298	NAD27	21	B-horizon soil	29.7	13.2	86.2	28.8	1.0	
14675	576486	5657304	NAD27	21	B-horizon soil	1.0	13.2	53.5	20.8	1.0	
14676	576509	5657304	NAD27	21	B-horizon soil	1.0	27.4	90.9	11.5	1.0	
14677	576539	5657309	NAD27	21	B-horizon soil	1.0	56.6	107.7	17.1	1.0	
14678	576563	5657320	NAD27	21	B-horizon soil	1.0	28.2	100.7	30.3	1.0	
14679	576582	5657313	NAD27	21	B-horizon soil	1.0	40.3	105.5	9.8	1.0	
14680	576611	5657310	NAD27	21	B-horizon soil	1.0	12.5	36.2	12.4	1.0	
14681	576631	5657312	NAD27	21	B-horizon soil	1.0	19.3	54.1	22.6	1.0	
14682	576657	5657303	NAD27	21	B-horizon soil	1.0	9.4	46.5	36.4	1.0	
14683	576684	5657304	NAD27	21	B-horizon soil	1.0	22.0	52.1	13.4	12.8	
14684	576711	5657304	NAD27	21	B-horizon soil	1.0	21.2	90.2	23.5	1.0	
14685	576735	5657307	NAD27	21	B-horizon soil	1.0	32.6	160.3	13.2	1.0	
14686	576756	5657300	NAD27	21	B-horizon soil	1.0	36.5	137.9	14.0	1.0	
14687	576787	5657312	NAD27	21	B-horizon soil	29.4	37.5	102.8	13.4	13.8	
14688	576813	5657315	NAD27	21	B-horizon soil	1.0	17.4	47.8	11.0	1.0	
14689	576832	5657312	NAD27	21	B-horizon soil	1.0	11.6	33.5	9.8	1.0	
14690	576860	5657309	NAD27	21	B-horizon soil	1.0	39.7	80.0	17.0	1.0	
14691	576890	5657310	NAD27	21	B-horizon soil	1.0	23.0	70.8	17.0	1.0	

## Appendix 2: Sail Pond Soil Sample List

Sample Number	UTM Easting	UTM Northing	Datum	Zone	Sample Medium	pXRF Cu(ppm)	pXRF Pb(ppm)	pXRF Zn(ppm)	pXRF As(ppm)	pXRF Sb(ppm)	Check Analysis - Certificate Reference
14692	576911	5657311	NAD27	21	B-horizon soil	1.0	18.0	62.7	10.5	23.4	
14693	576987	5657306	NAD27	21	B-horizon soil	1.0	20.2	65.7	15.0	1.0	
14694	577011	5657300	NAD27	21	B-horizon soil	1.0	31.9	67.2	17.4	1.0	
14695	577034	5657309	NAD27	21	B-horizon soil	1.0	24.4	192.7	21.4	1.0	
14696	577065	5657312	NAD27	21	B-horizon soil	1.0	35.1	228.6	1.0	1.0	
14697	577317	5657299	NAD27	21	B-horizon soil	1.0	118.1	100.5	31.2	1.0	
14698	577336	5657294	NAD27	21	B-horizon soil	1.0	49.3	159.2	15.3	1.0	
14699	577372	5657306	NAD27	21	B-horizon soil	1.0	59.8	135.2	16.7	1.0	
14700	577385	5657297	NAD27	21	B-horizon soil	1.0	69.5	101.8	13.6	1.0	
14701	575018	5653706	NAD27	21	B-horizon soil	1.0	9.5	20.7	1.0	1.0	
14702	574929	5653697	NAD27	21	B-horizon soil	1.0	25.2	92.0	1.0	1.0	
14703	574895	5653704	NAD27	21	B-horizon soil	1.0	14.7	49.4	8.8	1.0	
14704	574871	5653709	NAD27	21	B-horizon soil	99.7	53.4	128.9	17.2	1.0	
14705	574851	5653705	NAD27	21	B-horizon soil	1.0	25.9	109.3	13.8	1.0	
14706	574827	5653697	NAD27	21	B-horizon soil	1.0	17.2	63.8	1.0	1.0	
14707	574804	5653693	NAD27	21	B-horizon soil	1.0	17.2	82.3	1.0	1.0	
14708	574765	5653695	NAD27	21	B-horizon soil	1.0	49.1	89.2	1.0	1.0	
14709	574745	5653689	NAD27	21	B-horizon soil	1.0	11.8	18.2	1.0	1.0	
14710	574716	5653695	NAD27	21	B-horizon soil	1.0	29.6	95.8	12.6	1.0	
14711	574694	5653682	NAD27	21	B-horizon soil	1.0	34.6	306.5	9.1	1.0	
14712	574679	5653685	NAD27	21	B-horizon soil	1.0	29.8	176.8	1.0	1.0	
14713	574644	5653689	NAD27	21	B-horizon soil	1.0	21.9	85.3	14.4	1.0	
14714	574617	5653694	NAD27	21	B-horizon soil	1.0	1.0	46.3	13.2	1.0	
14715	574587	5653698	NAD27	21	B-horizon soil	1.0	33.2	86.3	1.0	1.0	
14716	574566	5653698	NAD27	21	B-horizon soil	1.0	22.7	84.3	1.0	1.0	
14717	574541	5653702	NAD27	21	B-horizon soil	1.0	24.3	68.9	1.0	1.0	
14718	577131	5656101	NAD27	21	B-horizon soil	1.0	28.6	162.7	10.3	1.0	
14719	577100	5656102	NAD27	21	B-horizon soil	1.0	21.7	84.1	7.7	1.0	
14720	577073	5656095	NAD27	21	B-horizon soil	1.0	16.7	120.8	10.6	1.0	
14721	577050	5656096	NAD27	21	B-horizon soil	1.0	15.0	122.8	15.7	1.0	
14722	577025	5656094	NAD27	21	B-horizon soil	1.0	25.0	124.6	11.8	1.0	
14723	576989	5656090	NAD27	21	B-horizon soil	1.0	15.4	29.7	1.0	1.0	
14724	576960	5656096	NAD27	21	B-horizon soil	1.0	26.7	118.8	8.6	1.0	
14725	576921	5656097	NAD27	21	B-horizon soil	1.0	18.7	46.8	1.0	23.5	
14726	576784	5656080	NAD27	21	B-horizon soil	1.0	16.0	50.4	10.8	1.0	
14727	576751	5656090	NAD27	21	B-horizon soil	1.0	27.8	75.1	21.2	1.0	
14728	576713	5656101	NAD27	21	B-horizon soil	1.0	27.4	144.0	10.8	1.0	
14729	576712	5656096	NAD27	21	B-horizon soil	1.0	9.8	35.4	1.0	1.0	
14730	576655	5656096	NAD27	21	B-horizon soil	1.0	26.2	87.1	11.3	1.0	
14731	576635	5656096	NAD27	21	B-horizon soil	1.0	11.3	60.0	9.7	12.2	
14732	576543	5656092	NAD27	21	B-horizon soil	1.0	15.2	27.3	1.0	1.0	
14733	576517	5656087	NAD27	21	B-horizon soil	1.0	15.5	36.6	12.6	1.0	
14734	576502	5656087	NAD27	21	B-horizon soil	1.0	15.4	35.9	8.6	1.0	
14735	576471	5656083	NAD27	21	B-horizon soil	1.0	21.3	301.0	10.8	1.0	
14736	576450	5656084	NAD27	21	B-horizon soil	1.0	10.7	30.6	9.1	1.0	
14737	576417	5656078	NAD27	21	B-horizon soil	1.0	18.0	163.8	1.0	1.0	
14738	576396	5656079	NAD27	21	B-horizon soil	1.0	23.1	100.1	1.0	1.0	
14739	576370	5656080	NAD27	21	B-horizon soil	1.0	18.7	37.4	11.9	1.0	
14740	576347	5656075	NAD27	21	B-horizon soil	1.0	23.9	74.7	9.0	1.0	
14741	576336	5656075	NAD27	21	B-horizon soil	1.0	10.6	23.0	1.0	1.0	
14742	576292	5656069	NAD27	21	B-horizon soil	1.0	17.2	67.8	13.0	1.0	
14743	576269	5656085	NAD27	21	B-horizon soil	1.0	22.8	76.5	13.5	26.2	
14744	576255	5656093	NAD27	21	B-horizon soil	1.0	17.1	65.2	10.5	15.0	
14745	576237	5656098	NAD27	21	B-horizon soil	1.0	18.4	87.2	13.3	17.7	
14746	576119	5656095	NAD27	21	B-horizon soil	36.7	25.5	88.5	11.7	14.1	
14747	576095	5656110	NAD27	21	B-horizon soil	1.0	11.1	40.9	1.0	1.0	
14748	576081	5656110	NAD27	21	B-horizon soil	1.0	19.6	40.8	1.0	1.0	
14749	576054	5656103	NAD27	21	B-horizon soil	1.0	20.1	39.8	1.0	1.0	
14750	576025	5656109	NAD27	21	B-horizon soil	1.0	17.1	69.3	15.2	1.0	
14751	575997	5656108	NAD27	21	B-horizon soil	36.5	16.8	59.4	9.9	1.0	

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Sample Number	UTM Easting	UTM Northing	Datum	Zone	Sample Medium	pXRF Cu(ppm)	pXRF Pb(ppm)	pXRF Zn(ppm)	pXRF As(ppm)	pXRF Sb(ppm)	Check Analysis - Certificate Reference
14752	575967	5656103	NAD27	21	B-horizon soil	1.0	20.6	100.0	13.0	1.0	
14753	575944	5656100	NAD27	21	B-horizon soil	1.0	26.6	80.8	11.7	12.8	
14754	575895	5656089	NAD27	21	B-horizon soil	1.0	14.7	63.9	14.7	21.8	
14755	575863	5656092	NAD27	21	B-horizon soil	1.0	14.0	50.3	1.0	13.1	
14756	575844	5656099	NAD27	21	B-horizon soil	1.0	14.2	75.5	8.8	1.0	
14757	574798	5650788	NAD27	21	B-horizon soil	33.1	13.4	87.5	12.3	1.0	
14758	574774	5650781	NAD27	21	B-horizon soil	1.0	17.6	178.4	11.6	1.0	
14759	574746	5650788	NAD27	21	B-horizon soil	1.0	9.2	55.8	11.3	1.0	
14760	574718	5650788	NAD27	21	B-horizon soil	1.0	15.0	24.3	1.0	1.0	
14761	574698	5650791	NAD27	21	B-horizon soil	1.0	22.2	86.1	1.0	1.0	
14762	574668	5650796	NAD27	21	B-horizon soil	1.0	14.4	59.8	14.0	1.0	
14764	574645	5650789	NAD27	21	B-horizon soil	1.0	43.3	133.9	36.5	1.0	
14765	574614	5650792	NAD27	21	B-horizon soil	1.0	21.5	88.4	9.1	1.0	
14766	574595	5650791	NAD27	21	B-horizon soil	1.0	17.9	42.7	11.6	1.0	
14767	574572	5650787	NAD27	21	B-horizon soil	1.0	19.5	78.0	1.0	1.0	
14768	574542	5650792	NAD27	21	B-horizon soil	1.0	16.1	99.4	1.0	1.0	
14769	574517	5650791	NAD27	21	B-horizon soil	1.0	43.4	184.3	1.0	1.0	
14770	574496	5650798	NAD27	21	B-horizon soil	1.0	1.0	39.5	9.2	1.0	
14771	574471	5650798	NAD27	21	B-horizon soil	1.0	21.3	74.5	14.1	1.0	
14772	574444	5650797	NAD27	21	B-horizon soil	1.0	12.0	28.8	1.0	1.0	
14773	574419	5650799	NAD27	21	B-horizon soil	1.0	20.4	79.5	21.5	1.0	
14774	574396	5650800	NAD27	21	B-horizon soil	1.0	20.2	124.5	14.1	1.0	
14775	574365	5650804	NAD27	21	B-horizon soil	1.0	22.7	68.7	12.4	1.0	
14776	574343	5650805	NAD27	21	B-horizon soil	1.0	58.9	120.7	13.2	1.0	
14777	574314	5650797	NAD27	21	B-horizon soil	1.0	12.7	1.0	12.1	1.0	
14778	574296	5650801	NAD27	21	B-horizon soil	1.0	23.8	234.4	12.0	1.0	
14779	574274	5650801	NAD27	21	B-horizon soil	1.0	30.3	98.0	13.3	1.0	
14780	574216	5650793	NAD27	21	B-horizon soil	1.0	19.7	77.6	1.0	1.0	
14781	574267	5650395	NAD27	21	B-horizon soil	1.0	26.3	63.7	1.0	1.0	
14782	574292	5650396	NAD27	21	B-horizon soil	1.0	1.0	39.3	8.3	1.0	
14783	574318	5650399	NAD27	21	B-horizon soil	1.0	27.5	88.2	1.0	1.0	
14784	574338	5650405	NAD27	21	B-horizon soil	1.0	1.0	52.4	10.3	1.0	
14785	574368	5650402	NAD27	21	B-horizon soil	1.0	14.9	68.3	14.1	1.0	
14786	574393	5650405	NAD27	21	B-horizon soil	1.0	18.2	51.2	11.7	1.0	
14787	574422	5650400	NAD27	21	B-horizon soil	1.0	19.7	58.6	1.0	1.0	
14788	574446	5650402	NAD27	21	B-horizon soil	1.0	36.9	130.4	22.4	1.0	
14789	574474	5650395	NAD27	21	B-horizon soil	1.0	17.8	43.6	1.0	1.0	
14790	574491	5650400	NAD27	21	B-horizon soil	1.0	21.0	88.5	16.2	1.0	
14791	574518	5650399	NAD27	21	B-horizon soil	1.0	31.2	248.8	30.1	1.0	
14792	574543	5650398	NAD27	21	B-horizon soil	1.0	42.6	96.3	26.4	1.0	
14793	574559	5650401	NAD27	21	B-horizon soil	1.0	25.3	27.9	1.0	1.0	
14794	574498	5650006	NAD27	21	B-horizon soil	1.0	24.9	49.3	1.0	1.0	
14795	574472	5650006	NAD27	21	B-horizon soil	1.0	21.8	70.0	10.2	1.0	
14796	574445	5650008	NAD27	21	B-horizon soil	94.3	35.9	66.9	14.4	1.0	
14797	574422	5650007	NAD27	21	B-horizon soil	1.0	13.6	33.2	1.0	1.0	
14798	574398	5650008	NAD27	21	B-horizon soil	1.0	84.5	130.7	38.3	1.0	
14799	574376	5650003	NAD27	21	B-horizon soil	1.0	84.1	130.5	21.0	1.0	
14800	574348	5649999	NAD27	21	B-horizon soil	1.0	465.1	308.8	65.9	14.5	
14801	575974	5652115	NAD27	21	B-horizon soil	36.1	19.6	100.9	1.0	1.0	EA 378-1715628
14802	576006	5652110	NAD27	21	B-horizon soil	1.0	26.5	108.1	1.0	1.0	EA 378-1715628
14803	576031	5652113	NAD27	21	B-horizon soil	1.0	10.7	95.7	8.7	17.4	EA 378-1715628
14804	576050	5652113	NAD27	21	B-horizon soil	33.8	18.5	114.7	1.0	1.0	EA 378-1715628
14806	574722	5651900	NAD27	21	B-horizon soil	1.0	34.9	98.3	1.0	1.0	
14807	574745	5651903	NAD27	21	B-horizon soil	1.0	22.0	83.7	15.0	1.0	
14808	574775	5651905	NAD27	21	B-horizon soil	1.0	30.0	61.0	15.1	1.0	
14809	574795	5651905	NAD27	21	B-horizon soil	1.0	31.6	68.4	13.5	1.0	
14810	574827	5651905	NAD27	21	B-horizon soil	33.4	13.4	65.2	15.6	1.0	
14811	574850	5651905	NAD27	21	B-horizon soil	1.0	38.4	102.2	16.0	1.0	
14812	574874	5651910	NAD27	21	B-horizon soil	1.0	26.5	129.0	13.9	17.3	
14813	574924	5651906	NAD27	21	B-horizon soil	1.0	28.2	123.3	16.2	1.0	

## Appendix 2: Sail Pond Soil Sample List

Sample Number	UTM Easting	UTM Northing	Datum	Zone	Sample Medium	pXRF Cu(ppm)	pXRF Pb(ppm)	pXRF Zn(ppm)	pXRF As(ppm)	pXRF Sb(ppm)	Check Analysis - Certificate Reference
14819	574951	5651900	NAD27	21	B-horizon soil	1.0	98.0	263.6	30.1	1.0	
14820	574979	5651905	NAD27	21	B-horizon soil	1.0	40.3	142.6	13.2	1.0	
14821	574999	5651900	NAD27	21	B-horizon soil	1.0	22.8	113.5	10.3	1.0	
14822	575022	5651900	NAD27	21	B-horizon soil	43.6	104.6	130.4	19.5	1.0	
14824	575074	5651900	NAD27	21	B-horizon soil	1.0	24.3	76.5	13.5	1.0	
14825	575097	5651892	NAD27	21	B-horizon soil	1.0	31.8	160.0	14.6	1.0	
14826	575021	5651693	NAD27	21	B-horizon soil	38.6	22.1	298.6	36.3	1.0	
14827	575021	5651693	NAD27	21	B-horizon soil	1.0	12.6	1.0	19.2	1.0	
14828	574995	5651687	NAD27	21	B-horizon soil	1.0	13.5	16.4	12.4	1.0	
14829	574970	5651686	NAD27	21	B-horizon soil	1.0	24.6	130.7	8.8	1.0	
14830	574942	5651694	NAD27	21	B-horizon soil	1.0	22.8	73.8	1.0	1.0	
14831	574918	5651689	NAD27	21	B-horizon soil	1.0	34.8	96.8	13.9	1.0	
14832	574892	5651694	NAD27	21	B-horizon soil	1.0	22.2	58.0	1.0	1.0	
14833	574872	5651692	NAD27	21	B-horizon soil	35.9	169.3	248.4	42.5	1.0	
14834	574838	5651700	NAD27	21	B-horizon soil	83.1	43.6	200.9	21.1	1.0	
14835	574820	5651705	NAD27	21	B-horizon soil	1.0	63.1	91.8	13.1	1.0	
14836	574785	5651701	NAD27	21	B-horizon soil	1.0	25.2	121.9	10.0	1.0	
14837	574767	5651708	NAD27	21	B-horizon soil	1.0	38.1	98.3	11.1	1.0	
14838	574741	5651709	NAD27	21	B-horizon soil	1.0	13.1	62.7	11.3	1.0	
14839	574717	5651704	NAD27	21	B-horizon soil	1.0	66.4	99.6	12.9	1.0	
14840	574687	5651706	NAD27	21	B-horizon soil	1.0	26.1	89.1	9.2	1.0	
14841	574667	5651705	NAD27	21	B-horizon soil	1.0	34.6	95.0	9.7	1.0	
14842	574644	5651705	NAD27	21	B-horizon soil	1.0	1.0	26.9	1.0	27.1	
14843	574592	5651705	NAD27	21	B-horizon soil	1.0	45.2	234.0	1.0	1.0	
14844	574567	5651701	NAD27	21	B-horizon soil	1.0	43.6	96.0	14.6	1.0	
14845	574704	5651902	NAD27	21	B-horizon soil	1.0	36.1	93.2	1.0	1.0	
14846	574673	5651903	NAD27	21	B-horizon soil	1.0	117.6	106.1	20.0	1.0	
14847	574645	5651904	NAD27	21	B-horizon soil	1.0	27.7	155.1	19.3	1.0	
14848	574621	5651903	NAD27	21	B-horizon soil	1.0	28.0	68.8	24.4	1.0	
14849	574599	5651910	NAD27	21	B-horizon soil	1.0	26.8	71.5	14.6	1.0	
14850	574575	5651917	NAD27	21	B-horizon soil	1.0	37.1	93.4	10.8	1.0	
14851	574548	5651904	NAD27	21	B-horizon soil	1.0	22.4	75.8	11.1	1.0	
14852	574524	5651905	NAD27	21	B-horizon soil	1.0	30.3	52.3	1.0	1.0	
14853	574500	5651903	NAD27	21	B-horizon soil	1.0	41.0	59.0	1.0	1.0	
14854	574474	5651900	NAD27	21	B-horizon soil	1.0	24.0	159.8	1.0	1.0	
14855	574052	5653298	NAD27	21	B-horizon soil	1.0	25.6	89.8	13.5	1.0	
14856	574080	5653298	NAD27	21	B-horizon soil	1.0	13.9	16.9	8.1	1.0	
14857	574101	5653296	NAD27	21	B-horizon soil	1.0	11.8	24.1	1.0	1.0	
14858	574129	5653295	NAD27	21	B-horizon soil	1.0	16.3	51.0	9.2	1.0	
14859	574151	5653299	NAD27	21	B-horizon soil	1.0	30.6	174.2	1.0	1.0	
14860	574175	5653298	NAD27	21	B-horizon soil	1.0	15.2	61.1	12.0	1.0	
14861	574200	5653297	NAD27	21	B-horizon soil	1.0	25.5	78.2	22.4	1.0	
14862	574227	5653302	NAD27	21	B-horizon soil	1.0	17.2	67.4	14.4	1.0	
14863	574252	5653302	NAD27	21	B-horizon soil	1.0	22.0	88.4	22.7	1.0	
14864	574274	5653304	NAD27	21	B-horizon soil	1.0	21.7	79.7	1.0	1.0	
14865	574299	5653306	NAD27	21	B-horizon soil	1.0	17.1	58.0	1.0	1.0	
14866	574324	5653302	NAD27	21	B-horizon soil	12.4	18.3	84.5	4.5	1.0	
14867	574349	5653301	NAD27	21	B-horizon soil	11.5	16.3	36.6	1.9	1.0	
14868	574373	5653303	NAD27	21	B-horizon soil	1.0	13.4	17.3	1.0	1.0	
14869	574401	5653309	NAD27	21	B-horizon soil	13.4	16.2	24.5	1.2	1.0	
14870	574425	5653303	NAD27	21	B-horizon soil	1.0	22.3	53.8	4.8	1.0	
14871	574475	5653306	NAD27	21	B-horizon soil	1.0	14.4	28.5	2.1	1.0	
14872	574626	5653301	NAD27	21	B-horizon soil	1.0	18.2	50.2	7.9	1.0	
14873	574648	5653305	NAD27	21	B-horizon soil	1.0	10.6	26.8	6.3	1.0	
14874	574765	5653303	NAD27	21	B-horizon soil	22.6	25.6	58.1	10.5	1.0	
14875	574697	5653301	NAD27	21	B-horizon soil	40.6	14.4	52.4	10.9	1.0	
14876	574724	5653301	NAD27	21	B-horizon soil	18.6	19.9	89.1	12.2	1.0	
14877	574746	5653303	NAD27	21	B-horizon soil	15.4	8.7	39.8	8.0	1.0	
14878	574773	5653301	NAD27	21	B-horizon soil	7.3	14.8	92.7	16.8	1.6	
14879	574849	5653298	NAD27	21	B-horizon soil	7.0	21.1	36.4	1.9	1.0	

Appendix 2: Sail Pond Soil Sample List

Sample Number	UTM Easting	UTM Northing	Datum	Zone	Sample Medium	pXRF Cu(ppm)	pXRF Pb(ppm)	pXRF Zn(ppm)	pXRF As(ppm)	pXRF Sb(ppm)	Check Analysis - Certificate Reference
14880	574897	5653302	NAD27	21	B-horizon soil	10.7	7.1	26.2	8.2	1.0	
14881	574925	5653298	NAD27	21	B-horizon soil	0.9	6.5	60.1	7.3	1.0	
14882	574943	5653300	NAD27	21	B-horizon soil	15.3	10.4	35.8	5.6	1.0	
14883	574996	5653306	NAD27	21	B-horizon soil	1.0	16.9	40.0	4.6	1.0	
14884	575025	5653300	NAD27	21	B-horizon soil	13.3	14.6	52.2	5.3	1.0	
14885	575057	5653305	NAD27	21	B-horizon soil	3.7	12.2	50.2	9.4	1.0	
14886	575078	5653305	NAD27	21	B-horizon soil	6.4	17.4	138.6	3.4	1.0	
14887	575105	5653294	NAD27	21	B-horizon soil	1.0	29.5	91.5	12.7	15.5	
14888	575132	5653290	NAD27	21	B-horizon soil	11.0	10.2	71.5	11.3	1.0	
14889	575157	5653290	NAD27	21	B-horizon soil	23.9	21.0	89.9	8.7	1.0	
14890	575322	5653700	NAD27	21	B-horizon soil	1.0	17.4	93.9	1.0	1.0	
14891	575296	5653703	NAD27	21	B-horizon soil	1.0	13.1	44.6	1.0	1.0	
14892	575269	5653695	NAD27	21	B-horizon soil	1.0	19.1	35.8	1.0	1.0	
14893	575241	5653691	NAD27	21	B-horizon soil	1.0	18.9	35.3	1.0	1.0	
14894	575213	5653686	NAD27	21	B-horizon soil	1.0	21.8	36.2	1.0	1.0	
14895	575194	5653701	NAD27	21	B-horizon soil	1.0	181.9	107.0	67.4	1.0	
14896	575166	5653704	NAD27	21	B-horizon soil	1.0	18.3	101.1	1.0	1.0	
14897	575144	5653703	NAD27	21	B-horizon soil	1.0	11.5	110.5	10.9	1.0	
14898	575126	5653703	NAD27	21	B-horizon soil	1.0	1.0	102.6	7.7	1.0	
14899	575065	5653707	NAD27	21	B-horizon soil	70.2	42.5	209.2	11.1	1.0	
14900	575049	5653706	NAD27	21	B-horizon soil	1.0	37.0	182.7	13.5	1.0	
14901	575309	5652509	NAD27	21	B-horizon soil	39.0	81.9	408.7	40.0	1.0	EA 378-1715628
14902	575285	5652508	NAD27	21	B-horizon soil	53.3	150.3	446.1	45.3	1.0	EA 378-1715628
14903	575260	5652496	NAD27	21	B-horizon soil	74.5	3114.9	1735.2	224.8	1.0	EA378-1715628, EA378-1716086
14904	575236	5652504	NAD27	21	B-horizon soil	37.0	29.7	115.5	18.7	1.0	EA 378-1715628
14905	575207	5652506	NAD27	21	B-horizon soil	113.9	428.0	1410.2	136.1	1.0	EA 378-1715628
14906	575182	5652506	NAD27	21	B-horizon soil	1.0	18.3	79.5	12.4	1.0	EA 378-1715628
14907	575157	5652503	NAD27	21	B-horizon soil	164.1	1068.3	1121.5	109.2	1.0	EA 378-1715628
14908	575137	5652501	NAD27	21	B-horizon soil	1.0	38.1	167.1	11.4	1.0	EA 378-1715628
14909	575108	5652498	NAD27	21	B-horizon soil	1.0	305.3	315.0	26.1	1.0	EA 378-1715628
14910	575078	5652491	NAD27	21	B-horizon soil	1.0	12.6	37.0	1.0	1.0	EA 378-1715628
14911	575061	5652503	NAD27	21	B-horizon soil	1.0	18.8	50.7	1.0	1.0	EA 378-1715628
14912	575032	5652499	NAD27	21	B-horizon soil	39.0	46.9	87.0	1.0	1.0	EA 378-1715628
14913	575007	5652504	NAD27	21	B-horizon soil	1.0	22.1	85.2	16.6	1.0	EA 378-1715628
14914	574982	5652495	NAD27	21	B-horizon soil	1.0	26.3	83.3	14.0	1.0	EA 378-1715628
14915	574956	5652482	NAD27	21	B-horizon soil	1.0	29.5	100.0	15.2	1.0	EA 378-1715628
14916	574928	5652503	NAD27	21	B-horizon soil	1.0	36.0	89.2	17.3	1.0	EA 378-1715628
14917	574907	5652511	NAD27	21	B-horizon soil	1.0	12.1	51.7	9.5	1.0	EA 378-1715628
14918	574827	5652504	NAD27	21	B-horizon soil	1.0	16.7	81.4	8.1	1.0	EA 378-1715628
14919	574841	5652302	NAD27	21	B-horizon soil	1.0	10.9	24.4	1.0	1.0	
14920	574869	5652297	NAD27	21	B-horizon soil	1.0	18.6	59.4	8.1	1.0	
14921	574900	5652301	NAD27	21	B-horizon soil	1.0	21.2	36.8	1.0	1.0	
14922	574920	5652296	NAD27	21	B-horizon soil	1.0	25.4	87.8	1.0	1.0	
14923	574941	5652296	NAD27	21	B-horizon soil	35.5	20.5	77.4	16.8	1.0	
14924	575522	5652711	NAD27	21	B-horizon soil	1.0	30.5	145.3	10.4	1.0	
14925	575495	5652707	NAD27	21	B-horizon soil	1.0	18.4	107.0	18.2	1.0	
14926	575477	5652702	NAD27	21	B-horizon soil	41.5	44.9	339.8	19.1	1.0	
14927	575447	5652702	NAD27	21	B-horizon soil	57.8	20.3	221.4	8.6	1.0	
14928	575424	5652714	NAD27	21	B-horizon soil	28.0	14.2	38.2	9.2	1.0	
14929	575398	5652716	NAD27	21	B-horizon soil	1.0	15.2	50.0	11.5	1.0	
14930	575375	5652712	NAD27	21	B-horizon soil	93.2	48.2	277.4	22.0	1.0	
14931	575349	5652702	NAD27	21	B-horizon soil	1.0	45.1	158.4	28.3	1.0	
14932	575322	5652704	NAD27	21	B-horizon soil	1.0	70.3	215.6	23.4	1.0	
14933	575291	5652702	NAD27	21	B-horizon soil	1.0	158.0	425.2	34.8	1.0	
14934	575273	5652707	NAD27	21	B-horizon soil	1.0	191.9	482.5	30.8	1.0	
14935	575250	5652704	NAD27	21	B-horizon soil	1.0	19.6	82.0	13.5	1.0	
14936	575223	5652703	NAD27	21	B-horizon soil	36.6	28.2	70.9	27.3	1.0	
14937	575199	5652703	NAD27	21	B-horizon soil	1.0	40.9	116.3	11.4	1.0	
14938	575174	5652699	NAD27	21	B-horizon soil	1.0	32.7	95.0	11.6	1.0	



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Sample Number	UTM Easting	UTM Northing	Datum	Zone	Sample Medium	pXRF Cu(ppm)	pXRF Pb(ppm)	pXRF Zn(ppm)	pXRF As(ppm)	pXRF Sb(ppm)	Check Analysis - Certificate Reference
14939	575149	5652699	NAD27	21	B-horizon soil	1.0	21.8	90.9	12.7	1.0	
14940	575121	5652702	NAD27	21	B-horizon soil	1.0	22.3	110.6	1.0	1.0	
14941	575099	5652707	NAD27	21	B-horizon soil	33.0	41.8	128.1	17.2	1.0	
14942	575071	5652714	NAD27	21	B-horizon soil	1.0	57.1	72.6	13.0	1.0	
14943	575050	5652715	NAD27	21	B-horizon soil	37.3	61.3	260.5	18.2	1.0	
14944	575025	5652716	NAD27	21	B-horizon soil	1.0	19.7	49.8	8.2	1.0	
14945	574997	5652720	NAD27	21	B-horizon soil	1.0	29.9	127.1	9.1	1.0	
14946	574973	5652714	NAD27	21	B-horizon soil	1.0	31.5	51.3	1.0	1.0	
14947	574947	5652717	NAD27	21	B-horizon soil	34.4	26.6	168.8	1.0	1.0	
14948	574922	5652711	NAD27	21	B-horizon soil	1.0	27.2	55.6	1.0	1.0	
14949	575061	5652905	NAD27	21	B-horizon soil	1.0	38.0	236.1	4.9	1.0	EA 378-1715628
14950	575089	5652904	NAD27	21	B-horizon soil	2.0	73.8	343.9	43.3	1.0	EA 378-1715628
14951	575111	5652902	NAD27	21	B-horizon soil	1.0	87.7	257.5	9.4	1.0	EA 378-1715628
14952	575138	5652902	NAD27	21	B-horizon soil	17.0	205.6	380.8	31.5	1.0	EA 378-1715628
14953	575163	5652902	NAD27	21	B-horizon soil	1.0	112.6	224.7	23.1	1.0	EA 378-1715628
14954	575199	5652901	NAD27	21	B-horizon soil	30.0	124.6	519.5	136.4	1.0	EA 378-1715628
14955	575263	5652902	NAD27	21	B-horizon soil	1.0	33.5	53.4	10.2	25.7	EA 378-1715628
14956	575287	5652903	NAD27	21	B-horizon soil	29.1	90.0	598.9	35.9	1.0	EA 378-1715628
14957	575315	5652911	NAD27	21	B-horizon soil	29.6	81.3	344.5	22.7	1.0	EA 378-1715628
14958	575340	5652910	NAD27	21	B-horizon soil	5.3	124.1	122.8	11.7	1.0	EA 378-1715628
14959	575362	5652913	NAD27	21	B-horizon soil	22.7	219.6	238.7	50.3	1.0	EA 378-1715628
14960	575394	5652908	NAD27	21	B-horizon soil	13.1	213.3	250.8	32.7	1.0	EA 378-1715628
14961	575412	5652905	NAD27	21	B-horizon soil	25.1	77.5	145.0	38.8	1.0	EA 378-1715628
14962	575435	5652904	NAD27	21	B-horizon soil	17.2	124.4	1421.8	28.8	1.0	EA 378-1715628
14963	575462	5652904	NAD27	21	B-horizon soil	3.3	27.2	72.7	11.6	1.0	EA 378-1715628
14964	575563	5652910	NAD27	21	B-horizon soil	14.2	27.6	88.3	15.8	1.0	EA 378-1715628
14965	575590	5652909	NAD27	21	B-horizon soil	11.8	70.4	170.8	22.3	1.0	EA 378-1715628
14966	575609	5652902	NAD27	21	B-horizon soil	16.4	19.0	102.2	11.4	1.0	EA 378-1715628
14967	574781	5652100	NAD27	21	B-horizon soil	1.0	44.5	407.2	22.7	1.0	EA 378-1715628
14968	574753	5652105	NAD27	21	B-horizon soil	1.0	49.2	220.3	1.0	1.0	EA 378-1715628
14969	574803	5652099	NAD27	21	B-horizon soil	1.0	32.2	141.1	8.5	1.0	EA 378-1715628
14970	574829	5652103	NAD27	21	B-horizon soil	1.0	28.5	126.8	15.5	1.0	
14971	574854	5652099	NAD27	21	B-horizon soil	1.0	45.2	128.5	1.0	1.0	
14972	574879	5652100	NAD27	21	B-horizon soil	1.0	10.3	29.8	1.0	1.0	EA 378-1715628
14973	574905	5652097	NAD27	21	B-horizon soil	1.0	33.8	69.6	1.0	1.0	EA 378-1715628
14974	574933	5652097	NAD27	21	B-horizon soil	1.0	26.0	41.9	10.7	1.0	EA 378-1715628
14975	574957	5652097	NAD27	21	B-horizon soil	1.0	40.1	100.9	14.6	1.0	EA 378-1715628
14976	574986	5652098	NAD27	21	B-horizon soil	1.0	16.2	33.6	1.0	1.0	EA 378-1715628
14977	575004	5652097	NAD27	21	B-horizon soil	1.0	48.7	96.9	31.1	1.0	EA 378-1715628
14978	575029	5652091	NAD27	21	B-horizon soil	55.4	59.1	477.1	21.7	1.0	EA 378-1715628
14979	575055	5652093	NAD27	21	B-horizon soil	1.0	33.0	134.4	13.9	1.0	EA 378-1715628
14980	575079	5652094	NAD27	21	B-horizon soil	1.0	41.0	127.9	18.1	1.0	EA 378-1715628
14981	575104	5652093	NAD27	21	B-horizon soil	1.0	17.2	36.3	9.1	1.0	EA 378-1715628
14982	575126	5652097	NAD27	21	B-horizon soil	1.0	49.7	178.2	15.2	1.0	EA 378-1715628
14983	575155	5652097	NAD27	21	B-horizon soil	31.4	15.9	141.2	17.5	1.0	EA 378-1715628
14984	575177	5652095	NAD27	21	B-horizon soil	1.0	57.7	110.3	27.0	1.0	EA 378-1715628
14985	575206	5652099	NAD27	21	B-horizon soil	1.0	32.7	121.8	25.3	1.0	EA 378-1715628
14986	575283	5652096	NAD27	21	B-horizon soil	1.0	22.5	62.9	13.8	1.0	EA 378-1715628
14987	575307	5652099	NAD27	21	B-horizon soil	1.0	17.0	48.2	14.0	1.0	EA 378-1715628
14988	575328	5652098	NAD27	21	B-horizon soil	1.0	15.3	31.7	10.3	1.0	EA 378-1715628
14989	575359	5652096	NAD27	21	B-horizon soil	1.0	33.0	235.9	1.0	1.0	EA 378-1715628
14990	575380	5652098	NAD27	21	B-horizon soil	1.0	22.5	158.3	20.0	1.0	EA 378-1715628
14991	575407	5652095	NAD27	21	B-horizon soil	1.0	25.3	96.8	14.8	1.0	EA 378-1715628
14992	575429	5652096	NAD27	21	B-horizon soil	1.0	23.1	81.7	1.0	1.0	EA 378-1715628
14993	575458	5652098	NAD27	21	B-horizon soil	1.0	25.0	76.8	9.2	1.0	EA 378-1715628
14994	575479	5652092	NAD27	21	B-horizon soil	32.7	27.5	92.0	12.2	14.8	EA 378-1715628
14995	575497	5652093	NAD27	21	B-horizon soil	1.0	15.4	80.2	19.2	1.0	EA 378-1715628
14996	575529	5652097	NAD27	21	B-horizon soil	1.0	10.4	24.2	1.0	1.0	EA 378-1715628
14997	575554	5652099	NAD27	21	B-horizon soil	1.0	16.5	50.9	12.8	1.0	EA 378-1715628
14998	575901	5652107	NAD27	21	B-horizon soil	1.0	10.7	62.3	11.9	1.0	EA 378-1715628

## Appendix 2: Sail Pond Soil Sample List

Sample Number	UTM Easting	UTM Northing	Datum	Zone	Sample Medium	pXRF Cu(ppm)	pXRF Pb(ppm)	pXRF Zn(ppm)	pXRF As(ppm)	pXRF Sb(ppm)	Check Analysis - Certificate Reference
14999	575926	5652110	NAD27	21	B-horizon soil	1.0	15.7	225.4	15.1	1.0	EA 378-1715628
15000	575952	5652109	NAD27	21	B-horizon soil	1.0	9.8	45.1	9.6	1.0	EA 378-1715628



Au / ICP Geochemistry Certificate

Client: Altius Resources Inc.
Geologist: Roderick Smith
Project: Sail Pond Project
Sample: Soil

DskFile: 378-1715628

DateIn: July 05, 2017
DateOut: August 01, 2017



Email: info@easternanalytical.ca
P.O. Box 187
403 Little Bay Road Springdale, NL A0J 1T0
Phone: 709-673-3909 / Fax: 709-673-3408

Signed by: [Signature]

Results apply to samples as submitted.

Concentrations in assay range may cause interferences in associated elements.

Table with columns for Sample Number, Au (ppb), Ag (ppm), Al (%), As (ppm), Ba (ppm), Be (ppm), Bi (ppm), Ca (%), Cd (ppm), Ce (ppm), Co (ppm), Cr (ppm), Cu (ppm), Fe (%), In (ppm), K (%), La (ppm), Mg (%), Mn (ppm), Mo (ppm), Na (%), Ni (ppm), P (%), Pb (ppm), S (%), Sb (ppm), Se (ppm), Sn (ppm), Sr (ppm), Ti (%), U (ppm), V (ppm), W (ppm), Zn (ppm), Zr (ppm). Rows include 14967-14997, 15000, 14801, 14802, 14802 DUP, 14803, 14804, and STD samples.

Au / ICP Geochemistry Certificate

Client: Altius Resources Inc.  
Geologist: Roderick Smith  
Project: Sail Pond Project  
Sample: Soil

DskFile: 378-1715628

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Email: info@easternanalytical.ca

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Phone: 709-673-3909 / Fax: 709-673-3408

Signed by:

Results apply to samples as submitted.

Concentrations in assay range may cause interferences in associated elements.

Table with columns for Sample Number, Element (Au, Ag, Al, As, Ba, Be, Bi, Ca, Cd, Ce, Co, Cr, Cu, Fe, In, K, La, Mg, Mn, Mo, Na, Ni, P, Pb, S, Sb, Se, Sn, Sr, Ti, U, V, W, Zn, Zr), and units (ppb, ppm, %). Rows include standard samples (STD OREAS 202, 923) and individual sample results (11848-11977).



**Au / ICP Geochemistry Certificate**

Client: Altius Resources Inc.  
 Geologist: Roderick Smith  
 Project: Sail Pond Project  
 Sample: Soil

DskFile: 378-1715628

DateIn: July 05, 2017  
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Signed by:

Results apply to samples as submitted.

Concentrations in assay range may cause interferences in associated elements.

Sample Number	* Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe %	In ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	S %	Sb ppm	Se ppm	Sn ppm	Sr ppm	Ti %	U ppm	V ppm	W ppm	Zn ppm	Zr ppm		
10035	5	0.7	7.45	16	459	1.8	<2	0.09	0.5	67	15	198	34	7.59	<2	2.10	32	2.15	293	1	0.82	85	0.03	24	0.04	7	<10	22	0.43	4	132	<10	83	101			
10036	<5	0.2	9.07	<5	563	2.1	<2	0.60	<0.5	73	34	216	37	6.50	2	2.40	33	2.23	557	<1	1.00	114	0.05	25	0.04	3	<10	51	0.49	5	165	<10	119	102			
10037	5	<0.2	8.29	18	570	1.9	<2	0.27	0.6	81	21	204	44	6.85	<2	2.71	38	2.02	550	4	0.82	63	0.04	25	0.04	6	<10	28	0.52	6	185	<10	82	119			
10038	7	<0.2	8.53	12	656	2.3	<2	0.46	<0.5	85	24	187	112	5.55	<2	2.87	42	2.85	2220	4	1.06	138	0.04	30	0.03	11	10	44	0.43	6	135	<10	95	107			
10039	5	<0.2	7.26	5	470	1.4	<2	0.59	<0.5	55	15	190	15	5.57	<2	1.71	26	1.68	315	1	1.45	82	0.04	19	0.05	<3	<10	84	0.44	5	134	<10	102	107			
5688	28	<0.2	6.96	17	631	1.7	<2	1.69	0.7	62	15	42	42	4.78	<2	1.65	23	1.25	1373	1	2.03	24	0.08	27	0.04	7	<10	260	0.50	3	104	<10	91	154			
10040	5	<0.2	9.15	12	699	2.1	<2	0.21	<0.5	91	8	197	14	4.46	<2	3.49	44	1.68	139	1	1.41	52	0.02	10	0.02	<3	<10	37	0.61	3	184	<10	54	132			
10041	<5	<0.2	8.12	8	584	1.5	2	0.77	<0.5	68	17	220	13	5.83	<2	2.40	33	2.11	434	2	1.36	83	0.04	17	0.04	3	<10	72	0.52	5	161	<10	94	111			
10042	<5	<0.2	7.98	11	559	1.6	<2	1.01	<0.5	71	21	191	46	6.52	<2	2.36	31	2.27	588	1	1.07	99	0.03	19	0.03	<3	<10	83	0.42	6	132	<10	93	90			
10053	5	<0.2	9.41	14	440	2.3	<2	0.42	<0.5	86	10	99	10	5.10	<2	3.87	28	2.63	291	2	0.64	26	0.04	28	0.03	<3	11	70	0.50	5	106	<10	66	121			
10054	5	<0.2	7.30	9	299	1.8	<2	1.42	0.5	117	12	361	10	4.53	<2	3.20	20	2.37	283	3	0.95	29	0.05	25	0.05	<3	12	61	0.33	6	80	<10	53	95			
10055	6	<0.2	8.37	27	462	2.0	<2	1.45	<0.5	61	7	68	7	3.55	<2	2.52	42	2.68	503	3	0.49	30	0.05	18	0.05	<3	13	99	0.45	6	106	<10	50	112			
10056	<5	<0.2	8.13	9	316	1.9	<2	0.52	0.5	60	10	91	14	5.37	<2	2.82	21	2.44	207	2	0.66	29	0.03	27	0.05	<3	<10	41	0.43	9	106	<10	88	115			
10057	7	<0.2	11.09	42	420	1.4	<2	0.24	<0.5	26	22	99	37	8.02	<2	3.27	13	0.63	168	28	0.82	53	0.02	24	0.04	10	<10	103	0.56	9	154	<10	135	125			
10058	<5	<0.2	7.79	7	347	1.5	<2	0.68	<0.5	45	8	78	8	4.12	<2	2.23	17	1.17	330	2	0.71	24	0.03	27	0.05	8	<10	84	0.52	5	101	<10	85	146			
10059	5	<0.2	8.26	29	389	1.3	<2	0.32	<0.5	17	8	79	10	5.03	<2	2.91	7	1.95	174	5	0.73	29	0.01	22	0.03	<3	15	56	0.55	6	128	<10	80	123			
10060	<5	<0.2	7.99	22	352	1.6	<2	0.45	<0.5	54	10	73	8	5.10	<2	2.70	13	2.23	318	3	0.71	26	0.03	27	0.05	<3	<10	57	0.48	6	103	<10	62	121			
10061	<5	<0.2	12.33	23	279	2.8	<2	1.70	<0.5	150	17	91	27	6.24	<2	2.40	59	1.65	519	4	0.80	57	0.11	35	0.09	<3	14	152	0.52	7	82	<10	104	156			
10062	<5	<0.2	11.49	31	342	1.7	<2	0.21	<0.5	35	16	65	17	6.37	<2	3.58	15	0.68	162	5	0.63	34	0.02	17	0.04	4	14	95	0.58	7	121	<10	83	155			
10062 DUP	<5	<0.2	11.39	30	341	1.6	<2	0.20	0.6	35	14	99	16	6.28	<2	3.48	16	0.68	160	5	0.63	37	0.02	17	0.03	4	14	95	0.58	8	122	<10	80	155			
BLANK - AU	<5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
STD CM - 26	388	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
BLANK	---	<0.2	<0.01	<5	<5	<0.5	<2	<0.01	<0.5	<2	<2	<5	<5	<0.01	<2	<0.01	<1	<0.01	<1	<1	0.01	1	<0.01	<2	0.01	<3	<10	<1	<0.01	<2	<1	<10	<5	<1	<10		
STD OREAS 45E	---	0.4	6.60	15	238	0.6	<2	0.06	<0.5	22	53	983	757	>10.00	<2	0.33	9	0.16	522	2	0.06	436	0.03	21	0.05	<3	<10	14	0.53	2	308	<10	51	104			
10063	<5	<0.2	8.35	12	251	1.7	<2	4.43	<0.5	63	9	78	17	4.68	<2	1.91	29	1.29	317	3	0.61	30	0.05	21	0.05	<3	<10	93	0.44	6	102	<10	88	110			
10064	<5	<0.2	6.56	18	510	1.4	<2	0.52	<0.5	41	9	341	9	4.27	<2	2.05	15	1.00	362	1	1.32	35	0.02	19	0.02	4	<10	105	0.34	3	83	<10	48	71			
10065	<5	<0.2	8.08	11	413	2.2	<2	1.72	<0.5	83	10	93	8	4.24	<2	2.04	29	1.29	419	2	0.96	33	0.04	32	0.05	<3	<10	110	0.50	7	126	<10	94	115			
10066	<5	<0.2	6.71	15	354	1.1	<2	1.25	<0.5	35	8	84	12	5.39	<2	1.66	17	1.13	217	2	0.97	22	0.03	33	0.04	3	<10	87	0.53	6	161	<10	93	111			
10067	<5	<0.2	11.19	38	534	2.2	<2	0.10	<0.5	102	15	69	11	6.92	<2	4.06	33	0.79	293	3	0.28	31	0.02	18	0.04	6	10	46	0.45	5	108	<10	46	105			
10068	<5	<0.2	10.47	8	293	1.7	<2	0.15	<0.5	16	7	67	8	3.89	<2	4.14	5	2.95	115	3	0.19	22	0.01	14	0.03	<3	11	13	0.55	4	119	<10	88	125			
10069	<5	<0.2	8.92	17	413	1.8	<2	0.95	<0.5	66	11	57	9	4.56	<2	2.95	20	0.62	433	2	0.55	18	0.04	18	0.05	3	<10	71	0.44	6	108	<10	103	113			



Assay Certificate

Client: Altius Resources Inc.  
Geologist: Roderick Smith  
Project: Sail Pond Project  
Sample: Soil

DskFile: 378-1716086

DateIn: July 05, 2017

DateOut: August 01, 2017



Email: info@easternanalytical.ca  
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403 Little Bay Road Springdale, NL A0J 1T0  
Phone: 709-673-3909 / Fax: 709-673-3408

Signed by: 

Results apply to samples as submitted.

**ISO 17025**

\* Accredited Procedures

-----  
SAMPLE NUMBER

BLANK  
STD ME - 1201  
STD CCu - 1e  
14903

\* Pb %      \* Ag g/t  
<0.01 <0.1  
--- 36.4  
0.71 ---  
0.45 14.4

---

**APPENDIX 3. TRENCH SAMPLING DATA AND ANALYTICAL CERTIFICATES**









Appendix 3: Sail Pond Channel Sample List

Sample Number	UTM Easting	UTM Northing	Datum	Zone	Trench ID	Channel ID	Sample Sequence	Sample Type	Sample Length (m)	Summary Sample Description	Certificate(s) Reference	Au(ppb)	Ag(ppm)	As(ppm)	Cu(ppm)	Pb(ppm)	Sb(ppm)	Zn(ppm)
11577	575029	5652231	NAD27	21	SPTR02	A	10	Channel	1.85	lt grey dolostone SW 50 cm is shaley dolostone; no Qtz vein; channel cut parallel to mineralized vein	378-1716252, 378-1716415	16.00	1.20	2.50	51.00	64.00	10.00	71.00
11578	575031	5652231	NAD27	21	SPTR02	A	11	Channel	0.82	dolostone; veins or silica flooding; channel cut parallel to mineralized vein	378-1716252, 378-1716415	2.50	3.30	6.00	89.00	343.00	13.00	120.00
11579	575031	5652230	NAD27	21	SPTR02	A	12	Channel	0.85	dolostone; Qtz vein; channel cut parallel to mineralized vein	378-1716252, 378-1716415	2.50	8.10	2.50	179.00	1792.00	27.00	496.00
11580	575034	5652231	NAD27	21	SPTR02	A	13	Channel	1.00	dolostone; minor Qtz vein possible silicification; channel cut parallel to mineralized vein	378-1716252, 378-1716415	8.00	38.80	85.00	1156.00	3800.00	188.00	1305.00
11581	575034	5652231	NAD27	21	SPTR02	A	14	Channel	1.00	minor 2.5% indistinct Qtz vein 5mm vein of chalcocite and gn; channel cut parallel to mineralized vein	378-1716252, 378-1716415	2.50	13.50	22.00	446.00	1363.00	104.00	1422.00
11582	575034	5652231	NAD27	21	SPTR02	A	15	Channel	0.60	dolostone 50% Qtz vein; channel cut parallel to mineralized vein	378-1716252, 378-1716415, 378-1817832	91.00	218.40	633.00	6986.00	9200.00	2400.00	12300.00
11583	575034	5652231	NAD27	21	SPTR02	A	16	Channel	0.82	Qtz vein; chalcocite specks 5 mm; channel cut parallel to mineralized vein	378-1716252, 378-1716415	2.50	5.80	7.00	204.00	792.00	36.00	304.00
11584	575036	5652232	NAD27	21	SPTR02	A	17	Channel	0.50	chalcocite, mal, azurite mineralization in weathered Qtz vein; crumbly; channel cut parallel to mineralized vein	378-1716252, 378-1716415, 378-1817832	318.00	1179.00	1001.00	43900.00	44200.00	12800.00	27200.00
11586	575036	5652231	NAD27	21	SPTR02	A	18	Channel	1.35	Qtz vein with lots of mineralization chalcocite, mal; channel cut parallel to mineralized vein	378-1716252, 378-1716415, 378-1817832	410.00	1516.00	1001.00	68300.00	43700.00	20700.00	40900.00
11587	575037	5652233	NAD27	21	SPTR02	A	19	Channel	1.19	Qtz veins with mineralization, clots and stringers/veinlets; channel cut parallel to mineralized vein	378-1716252, 378-1716415, 378-1817832	97.00	275.70	1001.00	14000.00	9200.00	3200.00	35800.00
11588	575039	5652232	NAD27	21	SPTR02	A	20	Channel	1.45	Qtz vein with chalcocite and malachite mineralization; less weathered than previous 2 samples, min. more clotty; channel cut parallel to mineralized vein	378-1716252, 378-1716415, 378-1817832	54.00	200.20	609.00	7938.00	9900.00	2000.00	8800.00
11589	575042	5652233	NAD27	21	SPTR02	A	21	Channel	1.30	Qtz vein 40 cm wide; 5% clotty chalcocite; channel cut parallel to mineralized vein	378-1716252, 378-1716415	6.00	18.20	15.00	449.00	5600.00	98.00	669.00
11590	575043	5652233	NAD27	21	SPTR02	A	22	Channel	0.79	Qtz vein; channel cut parallel to mineralized vein	378-1716252, 378-1716415, 378-1817832	14.00	97.80	74.00	3096.00	8200.00	1000.00	1794.00
11591	575043	5652236	NAD27	21	SPTR02	A	23	Channel	1.05	white dolostone, moderate fizz in calcite veins; channel cut parallel to mineralized vein	378-1716252, 378-1716415	2.50	0.50	2.50	22.00	105.00	5.00	32.00
11592	575042	5652235	NAD27	21	SPTR02	A	24	Channel	1.20	calcite veining; channel cut parallel to mineralized vein	378-1716252, 378-1716415	2.50	0.40	2.50	9.00	24.00	4.00	22.00
11593	575044	5652235	NAD27	21	SPTR02	A	25	Channel	1.00	medium grained carbonate with cm scale Qtz vein which hosts chalcocite	378-1716252, 378-1716415	2.50	7.70	17.00	204.00	988.00	43.00	104.00
11594	575046	5652236	NAD27	21	SPTR02	A	26	Channel	2.30	coarse grained carbonate with clots of mineralization (3 cm); channel cut parallel to mineralized vein	378-1716252, 378-1716415	2.50	3.30	8.00	151.00	53.00	25.00	54.00
11595	575047	5652236	NAD27	21	SPTR02	A	27	Channel	1.15	med grained carb, argillaceous	378-1716252, 378-1716415	2.50	0.20	6.00	22.00	24.00	1.50	47.00
11596	575046	5652240	NAD27	21	SPTR02	A	28	Channel	1.00	med grained lt grey carbonate with patches of dark grey Qtz calcite veining, argillaceous	378-1716252, 378-1716415	2.50	0.70	7.00	37.00	32.00	4.00	45.00
11597	575049	5652239	NAD27	21	SPTR02	A	29	Channel	1.20	med grained carbonate with cm scale Qtz veins containing disseminated mal, z and clots of chalcocite	378-1716252, 378-1716415	2.50	4.40	10.00	176.00	604.00	29.00	4100.00
11598	575050	5652240	NAD27	21	SPTR02	A	30	Channel	1.50	coarse grained carbonate with Qtz calcite veining, small 3 cm clots of chalcocite mineralization	378-1716252, 378-1716415	2.50	4.00	6.00	103.00	1269.00	31.00	126.00
11600	575048	5652244	NAD27	21	SPTR02	B	1	Channel	1.34	fine-grained, light grey dolostone with Qtz veins up to 2 cm and mineralization	378-1716252, 378-1716415	2.50	1.30	2.50	49.00	452.00	10.00	227.00
11601	575050	5652247	NAD27	21	SPTR02	B	2	Channel	1.91	fine grained dolostone with Qtz veins up to 1 cm wide	378-1716252, 378-1716415	2.50	0.20	2.50	2.50	6.00	4.00	17.00
11602	575051	5652247	NAD27	21	SPTR02	B	3	Channel	2.00	fine grained, light grey dolostone with thin Qtz veins up to 1 cm and 0.5 mm calcite veins	378-1716252, 378-1716415	2.50	0.20	2.50	5.00	8.00	1.50	12.00
11603	575050	5652248	NAD27	21	SPTR02	B	4	Channel	0.91	fine-grained, light grey dolostone with Qtz veins up to 1 cm and thin 0.5mm-2mm calcite veins	378-1716252, 378-1716415	2.50	0.10	7.00	5.00	1.00	1.50	11.00
11604	575050	5652248	NAD27	21	SPTR02	B	5	Channel	1.17	fine-grained, light grey dolostone with Qtz veins up to 1.5 cm and thin 1.2mm calcite veins with mineralization	378-1716252, 378-1716415	2.50	1.90	6.00	22.00	1177.00	6.00	24.00
11606	575023	5652209	NAD27	21	SPTR02	C	1	Channel	1.10	fine-grained light grey dolostone with quartz veins up to 5 cm and minor galena in vein; clots of galena up to 1 cm long within 5 cm Qtz vein. Minor disseminated chalcocite in Qtz	378-1716252, 378-1716415	2.50	0.60	9.00	22.00	173.00	1.50	45.00
11607	575022	5652211	NAD27	21	SPTR02	C	2	Channel	1.20	fine-grained light grey dolostone with thin 0.5 cm Qtz veins	378-1716252, 378-1716415	2.50	0.40	2.50	19.00	52.00	10.00	53.00
11608	575023	5652215	NAD27	21	SPTR02	C	3	Channel	1.00	fine-grained, light grey dolostone with Qtz veins up to 1.5 cm and mineralization	378-1716252, 378-1716415, 378-1817832	99.00	229.80	504.00	6298.00	10600.00	2300.00	4600.00
11610	575022	5652215	NAD27	21	SPTR02	C	4	Channel	1.00	fine-grained, light grey dolostone with Qtz veins up to 2 cm	378-1716252, 378-1716415	2.50	0.80	12.00	33.00	80.00	10.00	51.00
11611	575023	5652216	NAD27	21	SPTR02	C	5	Channel	1.05	fine-grained, light grey dolostone with Qtz veins up to 1.5 cm with mineralization	378-1716252, 378-1716415, 378-1817832	14.00	85.80	361.00	4184.00	146.00	600.00	1466.00
11612	575023	5652217	NAD27	21	SPTR02	C	6	Channel	1.55	fine-grained, grey dolostone with Qtz veins up to 2 cm wide and mineralization	378-1716252, 378-1716415, 378-1817832	5.00	56.20	30.00	2767.00	10.00	800.00	506.00
11613	575025	5652217	NAD27	21	SPTR02	C	7	Channel	1.95	light grey, fine grained dolostone with quartz veins up to 1 cm wide	378-1716252, 378-1716415	2.50	0.10	2.50	15.00	19.00	3.00	47.00
11614	575022	5652221	NAD27	21	SPTR02	C	8	Channel	1.66	light grey, fine grained dolostone with Qtz veins up to 1 cm	378-1716252, 378-1716415	2.50	0.20	5.00	15.00	52.00	8.00	114.00



Appendix 3: Sail Pond Channel Sample List

Sample Number	UTM Easting	UTM Northing	Datum	Zone	Trench ID	Channel ID	Sample Sequence	Sample Type	Sample Length (m)	Summary Sample Description	Certificate(s) Reference	Au(ppb)	Ag(ppm)	As(ppm)	Cu(ppm)	Pb(ppm)	Sb(ppm)	Zn(ppm)
11615	575023	5652220	NAD27	21	SPTR02	C	9	Channel	1.30	light grey, fine grained dolostone with qtz veins up to 1 cm; mineralization 2m away	378-1716252, 378-1716415	2.50	0.50	2.50	20.00	49.00	9.00	232.00
11616	575023	5652223	NAD27	21	SPTR02	C	10	Channel	0.95	light grey, fine grained dolostone with qtz veins up to 1 cm wide	378-1716252, 378-1716415	2.50	0.80	10.00	37.00	53.00	8.00	6800.00
11617	575021	5652225	NAD27	21	SPTR02	C	11	Channel	2.50	light grey, fine grained dolostone with qtz veins up to 2-3mm wide	378-1716252, 378-1716415	15.00	41.60	90.00	1911.00	4100.00	279.00	1455.00
11618	575024	5652225	NAD27	21	SPTR02	C	12	Channel	1.20	fine-grained, light grey dolostone with small qtz vein, 102mm. Mineralization 1 m away on either side of the channel	378-1716252, 378-1716415	2.50	1.10	9.00	39.00	101.00	1.50	37.00
11619	575024	5652229	NAD27	21	SPTR02	C	13	Channel	0.65	fine-grained, light grey dolostone with qtz veins up to 0.8 m wide and mineralization; chalcocite clots up to 1.5 cm with ma + azurite	378-1716252, 378-1716415, 378-1817832	8.00	111.10	235.00	3100.00	2900.00	1100.00	724.00
11620	575023	5652227	NAD27	21	SPTR02	C	14	Channel	0.65	light grey, fine-grained dolostone with qtz veins up to 2 cm and minor calcite veins 1-2 mm; mineralization 30 cm west	378-1716252, 378-1716415	2.50	0.10	12.00	11.00	15.00	1.50	39.00
11621	575023	5652226	NAD27	21	SPTR02	C	15	Channel	0.85	light grey finegrained dolostone, 1 cm qtz veins	378-1716252, 378-1716415	2.50	0.10	5.00	10.00	8.00	1.50	24.00
11677	575033	5652218	NAD27	21	SPTR02	D	1	Channel	0.60	fine grained white dolostone w 5% qtz vein	378-1716388, 378-1716564	11.00	0.70	6.00	22.00	58.00	6.00	20.00
11676	575032	5652219	NAD27	21	SPTR02	D	2	Channel	1.00	dolostone with 40% qtz vein, coarse sugary lt grey dolostone chalcocite associated with a vein	378-1716388, 378-1716564, 378-1817832	81.00	154.20	122.00	3705.00	8100.00	2000.00	700.00
11674	575031	5652220	NAD27	21	SPTR02	D	3	Channel	1.00	white weathering grey grainy dolostone, few qtz vein	378-1716388, 378-1716564	2.50	0.10	7.00	6.00	18.00	3.00	15.00
11673	575032	5652221	NAD27	21	SPTR02	D	4	Channel	1.00	white weathering grey grainy dolostone, 10% qtz vein	378-1716388, 378-1716564	2.50	0.10	5.00	5.00	71.00	1.50	18.00
11672	575032	5652222	NAD27	21	SPTR02	D	5	Channel	1.00	white weathering grey grainy dolostone, 20% qtz vein incl 10 cm vein	378-1716388, 378-1716564	2.50	0.10	5.00	8.00	18.00	1.50	28.00
11671	575032	5652222	NAD27	21	SPTR02	D	6	Channel	1.00	white weathering grey grainy dolostone	378-1716388, 378-1716564	2.50	0.10	10.00	10.00	26.00	1.50	73.00
11670	575031	5652224	NAD27	21	SPTR02	D	7	Channel	1.00	white weathering grey grainy dolostone; single spec of chalcocite	378-1716388, 378-1716564	2.50	0.10	2.50	6.00	16.00	4.00	33.00
11669	575030	5652225	NAD27	21	SPTR02	D	8	Channel	1.00	white weathering grey grainy dolostone	378-1716388, 378-1716564	2.50	0.10	8.00	6.00	15.00	3.00	25.00
11668	575030	5652226	NAD27	21	SPTR02	D	9	Channel	1.00	white weathering grey grainy dolostone	378-1716388, 378-1716564	2.50	0.20	8.00	10.00	18.00	1.50	28.00
11667	575030	5652226	NAD27	21	SPTR02	D	10	Channel	1.00	white weathering grey grainy dolostone	378-1716388, 378-1716564	2.50	0.40	2.50	18.00	53.00	3.00	43.00
11666	575027	5652230	NAD27	21	SPTR02	D	11	Channel	1.00	buff weathering dolostone, 30 cm of argelaceous dolostone	378-1716388, 378-1716564	2.50	1.00	11.00	31.00	73.00	8.00	126.00
11665	575027	5652230	NAD27	21	SPTR02	D	12	Channel	1.00	massive white dolostone	378-1716388, 378-1716564	2.50	0.80	12.00	36.00	113.00	7.00	357.00
11664	575026	5652230	NAD27	21	SPTR02	D	13	Channel	0.50	lg vein 30 cm tt some host dolostone, cm thick mineralized layer on E side of vein	378-1716388, 378-1716564, 378-1817832	65.00	223.90	1001.00	5229.00	9500.00	1200.00	6800.00
11663	575025	5652232	NAD27	21	SPTR02	D	14	Channel	1.25	10% fine veins	378-1716388, 378-1716564	2.50	0.40	8.00	9.00	103.00	3.00	260.00
11662	575023	5652230	NAD27	21	SPTR02	D	15	Channel	1.00	limestone, mild acid fizz	378-1716388, 378-1716564	2.50	0.50	10.00	20.00	13.00	4.00	17.00
11661	575035	5652228	NAD27	21	SPTR02	E	1	Channel	1.45	argelaceous dolostone	378-1716388, 378-1716564	2.50	0.10	13.00	28.00	18.00	7.00	75.00
11659	575034	5652228	NAD27	21	SPTR02	E	2	Channel	1.00	lt grey dolostone, sucrose texture, going to argelaceous dolostone	378-1716388, 378-1716564	2.50	0.10	7.00	9.00	27.00	6.00	48.00
11658	575033	5652230	NAD27	21	SPTR02	E	3	Channel	1.00	lt grey dolostone, sucrose texture	378-1716388, 378-1716564	2.50	0.20	9.00	7.00	224.00	1.50	24.00
11657	575031	5652231	NAD27	21	SPTR02	E	4	Channel	1.05	grey xtl-ine dolostone 10 cm qtz vein and many smaller, chalcocite clots 10 cm from lg vein	378-1716388, 378-1716564	2.50	4.50	12.00	127.00	116.00	33.00	64.00
11656	575032	5652230	NAD27	21	SPTR02	E	5	Channel	1.30	grey xtl-ine dolostone; 3mm clots of chalcocite	378-1716388, 378-1716564	18.00	17.00	23.00	352.00	417.00	83.00	228.00
11655	575060	5652232	NAD27	21	SPTR02	E	6	Channel	1.15	grey xtl-ine dolostone; thin qtz vein totaling 10%	378-1716388, 378-1716564	7.00	0.70	10.00	25.00	76.00	12.00	58.00
11654	575060	5652232	NAD27	21	SPTR02	E	7	Channel	0.30	30 cm mineralized qtz vein; arsenic green weathering	378-1716388, 378-1716564, 378-1817832	235.00	661.90	1001.00	16800.00	33500.00	6000.00	14400.00
11653	575030	5652232	NAD27	21	SPTR02	E	8	Channel	1.15	Ends at a qtz vein	378-1716388, 378-1716564	10.00	4.40	2.50	65.00	1969.00	17.00	415.00
11652	575030	5652232	NAD27	21	SPTR02	E	9	Channel	1.00	sucrose text dolostone	378-1716388, 378-1716564	2.50	12.60	16.00	312.00	945.00	81.00	421.00
11626	575038	5652233	NAD27	21	SPTR02	F	1	Channel	0.50	fine-grained, light grey dolostone with 30 cm mineralized qtz vein	378-1716252, 378-1716415, 378-1817832	107.00	280.60	903.00	12300.00	14600.00	3600.00	37700.00
11624	575034	5652233	NAD27	21	SPTR02	F	2	Channel	0.40	fine-grained, light grey dolostone with 1-2 mm qtz vein	378-1716252, 378-1716415	2.50	0.10	11.00	6.00	6.00	3.00	163.00
11623	575035	5652234	NAD27	21	SPTR02	F	3	Channel	1.10	fine-grained light grey dolostone, no qtz	378-1716252, 378-1716415	2.50	0.10	13.00	9.00	17.00	1.50	17.00
11622	575035	5652236	NAD27	21	SPTR02	F	4	Channel	0.80	fine-grained light grey dolostone	378-1716252, 378-1716415	2.50	0.40	13.00	8.00	18.00	1.50	24.00
11638	575044	5652222	NAD27	21	SPTR02	G	1	Channel	1.90	l-grey, f-grained, dolostone with thin qtz veins up to 1 cm = 5%	378-1716252, 378-1716415	2.50	0.10	2.50	9.00	17.00	1.50	21.00
11637	575045	5652227	NAD27	21	SPTR02	G	2	Channel	1.97	f-grained, l-grey dolostone with qtz veins up to 0.5 cm = 5%; no mineralization	378-1716252, 378-1716415	2.50	0.20	2.50	17.00	31.00	1.50	34.00
11636	575043	5652237	NAD27	21	SPTR02	G	3	Channel	2.30	l-grey, f-grained dolostone with qtz veins up to 1 mm	378-1716252, 378-1716415	2.50	0.70	2.50	27.00	34.00	1.50	46.00
11635	575043	5652230	NAD27	21	SPTR02	G	4	Channel	1.02	l-grey, f-grained dolostone, qtz veins up to 1 cm = 5%; small 2 cm chalcocite clots, malachite stain	378-1716252, 378-1716415, 378-1817832	85.00	328.50	427.00	10000.00	12600.00	3600.00	13400.00
11634	575042	5652229	NAD27	21	SPTR02	G	5	Channel	1.68	f-grained, l-grey dolostone, qtz vein 1-3mm. Weak hcl response, no mineralization noted; small malachite spot 4 inches from channel	378-1716252, 378-1716415	2.50	0.50	16.00	29.00	36.00	12.00	80.00
11633	575044	5652227	NAD27	21	SPTR02	G	6	Channel	1.68	f-grained, l-grey dolostone, 10% qtz	378-1716252, 378-1716415	2.50	0.80	10.00	36.00	112.00	5.00	56.00
11632	575043	5652230	NAD27	21	SPTR02	G	7	Channel	1.18	qtz vein with minor dolostone selvages, 90% qtz; thin chalcocite stringers and 1.5 cm clots; thin chalcocite stringers and 1.5 cm clots	378-1716252, 378-1716415	10.00	34.20	15.00	877.00	5500.00	249.00	742.00













Appendix 3: Sail Pond Channel Sample List

Sample Number	UTM Easting	UTM Northing	Datum	Zone	Trench ID	Channel ID	Sample Sequence	Sample Type	Sample Length (m)	Summary Sample Description	Certificate(s) Reference	Au(ppb)	Ag(ppm)	As(ppm)	Cu(ppm)	Pb(ppm)	Sb(ppm)	Zn(ppm)
12916	577854	5660125	NAD27	21	SPTR10	A	1	Channel	1.10	Coarse grained creamy beige dolo, yellow-orange in places (ankerite?), 15 cm qtz vein @N end w minz	378-1717273	2.50	4.80	2.50	104.00	125.00	11.00	65.00
12917	577854	5660130	NAD27	21	SPTR10	A	2	Channel	1.12	Coarse grained creamy beige dolo, yellow-orange in places (ankerite?), 38 cm qtz vein @S end	378-1717273	2.50	2.60	2.50	46.00	28.00	5.00	58.00
12918	577854	5660131	NAD27	21	SPTR10	A	3	Channel	0.80	Coarse grained creamy beige dolo, yellow-orange in places (ankerite?)	378-1717273	2.50	12.90	15.00	612.00	385.00	109.00	91.00
12919	577855	5660130	NAD27	21	SPTR10	A	4	Channel	0.42	coarse grained dolostone beige, bleached in places	378-1717273	2.50	6.40	6.00	291.00	376.00	31.00	237.00
12920	577852	5660128	NAD27	21	SPTR10	A	5	Channel	0.93	lt beige coarse grained dolostone, 2 cm qtz vein, some NE oriented 2-3mm qtz vein	378-1717273	7.00	0.30	2.50	24.00	26.00	5.00	19.00
12921	577854	5660126	NAD27	21	SPTR10	A	6	Channel	1.05	coarse grained creamy beige dolostone, several cm sclc qtz vein (EW & ENE oriented)	378-1717273	2.50	0.10	2.50	10.00	12.00	8.00	14.00
12922	577857	5660124	NAD27	21	SPTR10	A	7	Channel	1.00	coarse grained creamy beige dolostone, several small qtz vein, 15 cm qtz vein	378-1717273	2.50	3.80	8.00	164.00	122.00	15.00	20.00
12924	577861	5660124	NAD27	21	SPTR10	A	8	Channel	0.99	coarse grained creamy beige dolostone, 3 cm qtz vein, EW, few smaller veins	378-1717273	2.50	0.10	2.50	8.00	32.00	3.00	12.00
12926	577854	5660124	NAD27	21	SPTR10	A	9	Channel	0.97	coarse grained creamy beige dolostone, few qtz vein	378-1717273	2.50	0.10	2.50	8.00	14.00	4.00	9.00
12927	577854	5660125	NAD27	21	SPTR10	A	10	Channel	1.00	coarse grained creamy beige dolostone, 10 cm qtz vein (EW) with chalcocite	378-1717273	6.00	9.70	5.00	284.00	1151.00	56.00	43.00
12928	577857	5660121	NAD27	21	SPTR10	A	11	Channel	1.04	beige to white dolostone, no qtz vein >1mm	378-1717273	2.50	0.10	2.50	5.00	12.00	1.50	8.00
12929	577856	5660119	NAD27	21	SPTR10	A	12	Channel	0.97	beige to white dolostone, no qtz vein >1mm	378-1717273	2.50	0.70	2.50	33.00	106.00	5.00	51.00
12930	577853	5660120	NAD27	21	SPTR10	A	13	Channel	1.02	crumbly fault gouge in N half, competent beige dolostone in N half, a few 0.5 cm qtz vein	378-1717273	2.50	0.60	2.50	15.00	29.00	1.50	14.00
12931	577856	5660118	NAD27	21	SPTR10	A	14	Channel	1.00	beige dolostone, mottled lt grey in places	378-1717273	2.50	0.20	2.50	12.00	14.00	4.00	11.00
12932	577852	5660118	NAD27	21	SPTR10	A	15	Channel	1.00	beige dolostone, mottled lt grey in places, few 2.5mm qtz vein	378-1717273	2.50	0.10	2.50	10.00	5.00	4.00	12.00
12933	577851	5660117	NAD27	21	SPTR10	A	16	Channel	0.96	beige dolostone, mottled lt grey in places, few 2.5mm qtz vein	378-1717273	2.50	0.10	2.50	5.00	1.00	1.50	11.00
12934	577857	5660114	NAD27	21	SPTR10	A	17	Channel	1.53	beige dolostone, mottled lt grey in places, few 2.5mm qtz vein	378-1717273	2.50	1.80	5.00	128.00	19.00	25.00	300.00
12935	577856	5660116	NAD27	21	SPTR10	A	18	Channel	0.80	beige dolostone	378-1717273, 378-1817832	2.50	44.10	17.00	2312.00	76.00	158.00	172.00
12936	577858	5660116	NAD27	21	SPTR10	A	19	Channel	1.00	beige dolostone, 5 end is 5 cm qtz vein	378-1717273	2.50	0.20	2.50	16.00	29.00	4.00	25.00
12937	577854	5660115	NAD27	21	SPTR10	A	20	Channel	1.00	med grained beige dolostone, 2 cm qtz vein	378-1717273	2.50	1.40	8.00	128.00	34.00	9.00	36.00
12938	577850	5660114	NAD27	21	SPTR10	A	21	Channel	1.03	beige-light grey med - coarse grained dolostone, 3 1 cm veins striking 080	378-1717273	2.50	0.40	2.50	21.00	34.00	9.00	21.00
12939	577855	5660112	NAD27	21	SPTR10	A	22	Channel	0.85	beige-light grey med - coarse grained dolostone, 3 1 cm veins striking 080	378-1717273	2.50	0.30	2.50	12.00	19.00	10.00	20.00
12940	577852	5660111	NAD27	21	SPTR10	A	23	Channel	0.90	beige dolostone, 5 cm qtz vein (EW) & some smaller alos flie 340 deg veins	378-1717273	2.50	1.00	2.50	34.00	54.00	8.00	43.00
12941	577860	5660137	NAD27	21	SPTR10	B	1	Channel	0.99	competent beige dolostone, yellowish grains & grain boundries (ankerite?), 10& 5 cm qtz vein at N end, numerous thinner veins	378-1717273	10.00	17.40	28.00	398.00	4200.00	57.00	883.00
12942	577863	5660138	NAD27	21	SPTR10	B	2	Channel	1.01	dolostone as previous, some orange (ankerite?), qtz vein 10, 5, 3, 1 cm	378-1717273, 378-1817832	326.00	498.50	757.00	26600.00	68000.00	3200.00	2700.00
12943	577854	5660127	NAD27	21	SPTR10	B	3	Channel	0.84	competent beige dolostone, yellowish grains & grain boundries (ankerite?), 10 cm w malachitestain	378-1717273	2.50	7.30	6.00	255.00	942.00	31.00	45.00
12944	577854	5660125	NAD27	21	SPTR10	B	4	Channel	1.00	competent beige dolostone, yellowish grains & grain boundries (ankerite?), 10 cm w malachitestain	378-1717273, 378-1817832	5.00	79.20	2.50	2598.00	159.00	16.00	56.00
12945	577854	5660125	NAD27	21	SPTR10	B	5	Channel	1.01	beige dolostone, 10 cm qtz vein with galena	378-1717273	2.50	0.80	2.50	27.00	131.00	6.00	30.00
12946	577854	5660125	NAD27	21	SPTR10	B	6	Channel	1.00	beige dolostone, some 0.5 cm qtz vein	378-1717273	2.50	0.20	2.50	11.00	25.00	1.50	18.00
12947	577856	5660131	NAD27	21	SPTR10	B	7	Channel	0.90	beige dolostone, some qtz vein	378-1717273	2.50	0.10	6.00	8.00	18.00	4.00	16.00
12948	577860	5660126	NAD27	21	SPTR10	B	8	Channel	1.13	coarse beige-yellow dolostone, 5mm qtz vein (EW) with chalcocite, 2 1 cm qtz vein	378-1717273	2.50	1.40	2.50	22.00	62.00	7.00	30.00
12949	577859	5660125	NAD27	21	SPTR10	B	9	Channel	0.86	coarse beige-yellow dolostone	378-1717273	2.50	0.40	2.50	21.00	40.00	4.00	25.00
12951	577859	5660125	NAD27	21	SPTR10	B	10	Channel	1.04	med-coarse beige olostone EW qtz vein size 1, 1, 0.5, 5, 2, 3 cm	378-1717273	5.00	48.10	138.00	2126.00	8700.00	272.00	324.00
12953	577859	5660124	NAD27	21	SPTR10	B	11	Channel	0.90	coarse grained beige dolostone, 2 cm EW qtz vein	378-1717273	2.50	0.70	5.00	31.00	58.00	11.00	30.00
12954	577858	5660122	NAD27	21	SPTR10	B	12	Channel	1.00	coarse grained beige dolostone, 2 cm EW qtz vein	378-1717273	2.50	0.60	2.50	35.00	57.00	8.00	50.00
12956	577859	5660122	NAD27	21	SPTR10	B	13	Channel	1.00	beige dolostone	378-1717273	5.00	0.30	2.50	14.00	19.00	4.00	22.00
12906	577859	5660122	NAD27	21	SPTR10	B	14	Channel	0.80	beige dolostone	378-1717273	2.50	0.30	2.50	20.00	59.00	6.00	26.00
12907	577856	5660121	NAD27	21	SPTR10	B	15	Channel	1.50	beige dolostone	378-1717273	2.50	0.30	2.50	19.00	43.00	3.00	24.00
12908	577855	5660120	NAD27	21	SPTR10	B	16	Channel	1.27	beige dolostone	378-1717273	2.50	0.10	2.50	18.00	28.00	9.00	50.00
12909	577854	5660114	NAD27	21	SPTR10	B	17	Channel	1.00	beige dolostone, 15 cm old E dipping qtz vein, 15 cm EW qtz vein	378-1717273	2.50	0.40	2.50	28.00	33.00	7.00	39.00
12910	577860	5660122	NAD27	21	SPTR10	B	18	Channel	0.90	beige dolostone, 7 & 2 cm qtz vein	378-1717273	2.50	0.10	5.00	14.00	21.00	1.50	29.00
12911	577860	5660116	NAD27	21	SPTR10	B	19	Channel	0.97	beige dolostone, 2 cm qtz vein	378-1717273	2.50	0.40	2.50	12.00	26.00	1.50	25.00
12912	577857	5660111	NAD27	21	SPTR10	B	20	Channel	0.93	beige dolostone 5 cm qtz vein	378-1717273	2.50	0.20	2.50	11.00	15.00	3.00	17.00
12913	577857	5660108	NAD27	21	SPTR10	B	21	Channel	0.99	beige dolostone, deeply weathered	378-1717273	2.50	0.60	2.50	19.00	37.00	3.00	28.00
12914	577859	5660111	NAD27	21	SPTR10	B	22	Channel	1.00	beige dolostone	378-1717273	2.50	0.30	2.50	22.00	37.00	6.00	22.00
12915	577829	5660138	NAD27	21	SPTR10	C	1	Channel	1.20	Fine grained beige dolostone, small cm scale qtz veins cutting through	378-1717273	2.50	0.20	6.00	11.00	10.00	11.00	19.00
12957	577860	5660131	NAD27	21	SPTR10	C	2	Channel	1.50	beige dolostone with qtz crystals	378-1717273	2.50	0.10	6.00	10.00	13.00	5.00	19.00
12958	577866	5660131	NAD27	21	SPTR10	C	3	Channel	0.45	fine grained dolostone, small 3 cm qtz vein with tr sulphides	378-1717273	2.50	0.30	2.50	49.00	15.00	8.00	27.00
12959	577865	5660130	NAD27	21	SPTR10	C	4	Channel	1.05	dolostone with qtz veins, 1 qtz vein a S end of channel 10-15 cm wide	378-1717273	9.00	0.60	2.50	49.00	39.00	7.00	20.00



## Appendix 3: Sail Pond Channel Sample List

Sample Number	UTM Easting	UTM Northing	Datum	Zone	Trench ID	Channel ID	Sample Sequence	Sample Type	Sample Length (m)	Summary Sample Description	Certificate(s) Reference	Au(ppb)	Ag(ppm)	As(ppm)	Cu(ppm)	Pb(ppm)	Sb(ppm)	Zn(ppm)
12961	577866	5660127	NAD27	21	SPTR10	C	5	Channel	1.00	fine grained beige dolo with cm scale qtz veins	378-1717273	2.50	0.10	2.50	12.00	15.00	5.00	20.00
12962	577864	5660126	NAD27	21	SPTR10	C	6	Channel	1.00	beige dolostone with 2 cm scale mineralized qtz veins	378-1717273	2.50	20.10	17.00	1131.00	234.00	101.00	135.00
12963	577864	5660125	NAD27	21	SPTR10	C	7	Channel	1.00	Fine grained dolostone, no qtz veins	378-1717273	2.50	0.10	2.50	20.00	27.00	6.00	26.00
12964	577862	5660124	NAD27	21	SPTR10	C	8	Channel	1.00	dolostone with 5 cm qtz vein	378-1717273	2.50	0.90	2.50	28.00	89.00	10.00	32.00
12965	577866	5660123	NAD27	21	SPTR10	C	9	Channel	0.95	fine grained beige dolostone	378-1717273	2.50	0.10	2.50	12.00	9.00	12.00	18.00
12966	577865	5660122	NAD27	21	SPTR10	C	10	Channel	1.00	beige to grey dolostone, fine grained	378-1717273	2.50	0.10	2.50	9.00	6.00	1.50	16.00
12967	577863	5660121	NAD27	21	SPTR10	C	11	Channel	1.00	grey-beige dolostone with small scale qtz vein, trace calcite in qtz vein	378-1717273	2.50	0.20	2.50	5.00	3.00	1.50	114.00
12968	577865	5660120	NAD27	21	SPTR10	C	12	Channel	1.00	beige dolostone with small cm scale qtz veins	378-1717273	2.50	0.10	2.50	2.50	5.00	5.00	14.00
12969	577863	5660119	NAD27	21	SPTR10	C	13	Channel	1.00	beige fine grained dolostone with cm scale qtz veins	378-1717273	2.50	0.10	2.50	6.00	7.00	6.00	12.00
12970	577863	5660118	NAD27	21	SPTR10	C	14	Channel	1.00	grey to beige fine grained dolostone	378-1717273	2.50	0.10	12.00	2.50	10.00	5.00	12.00
12971	577863	5660118	NAD27	21	SPTR10	C	15	Channel	1.00	beige to brown fine grained dolostone, small qtz veins	378-1717273	2.50	0.40	2.50	7.00	21.00	7.00	25.00
12972	577863	5660117	NAD27	21	SPTR10	C	16	Channel	1.00	fine grained dolostone, beige to brown, small cm qtz vein	378-1717273	2.50	0.10	8.00	9.00	25.00	6.00	36.00
12973	577863	5660115	NAD27	21	SPTR10	C	17	Channel	1.00	fine grained beige-grey dolostone. Small qtz veins running through	378-1717273	2.50	0.20	2.50	9.00	29.00	4.00	90.00
12974	577864	5660112	NAD27	21	SPTR10	C	18	Channel	1.00	fin grained beige dolostone with 15 cm qtz vein cutting through	378-1717273	2.50	0.30	5.00	15.00	29.00	11.00	31.00
12976	577863	5660111	NAD27	21	SPTR10	C	19	Channel	1.00	brown / beige fine grained dolostone, minor qtz veining	378-1717273	2.50	0.30	2.50	16.00	53.00	10.00	28.00
12977	577864	5660111	NAD27	21	SPTR10	C	20	Channel	1.00	brown / beige fine grained dolostone, minor qtz veining	378-1717273	2.50	0.10	8.00	2.50	10.00	3.00	12.00
12978	577863	5660110	NAD27	21	SPTR10	C	21	Channel	1.00	brown / beige fine grained dolostone, small cm scale qtz veins, 1 x 3 cm vein	378-1717273	2.50	0.10	5.00	7.00	11.00	1.50	16.00
12979	577864	5660110	NAD27	21	SPTR10	C	22	Channel	1.00	beige brown dolostone with minor qtz veining	378-1717273	2.50	0.10	2.50	8.00	9.00	4.00	21.00
12980	577863	5660108	NAD27	21	SPTR10	C	23	Channel	1.00	brown-beige dolostone, minor qtz veining	378-1717273	2.50	0.40	2.50	10.00	25.00	8.00	26.00
12981	577867	5660127	NAD27	21	SPTR10	D	1	Channel	1.00	fine grained brown-beige dolostone	378-1717273	2.50	0.30	2.50	10.00	25.00	6.00	24.00
12986	577870	5660121	NAD27	21	SPTR10	D	1	Channel	1.00	10 cm qtz vein, rest if brown beige dolostone with cm qtz veins	378-1717273	2.50	2.00	2.50	29.00	81.00	8.00	65.00
12982	577868	5660125	NAD27	21	SPTR10	D	2	Channel	1.00	fine grained brown dolostone	378-1717273	2.50	0.40	2.50	17.00	22.00	3.00	26.00
12987	577869	5660124	NAD27	21	SPTR10	D	2	Channel	1.00	fine grained beige dolostone, minor qtz veining	378-1717273	2.50	0.60	2.50	10.00	19.00	1.50	23.00
12983	577867	5660124	NAD27	21	SPTR10	D	3	Channel	1.00	grey-beige dolostone minor qtz veining, malachite staining chalcocite	378-1717273	2.50	1.20	2.50	83.00	90.00	10.00	83.00
12988	577870	5660122	NAD27	21	SPTR10	D	3	Channel	1.00	small 3 cm qtz vein, beige dolostone with minor qtz veins	378-1717273	2.50	0.20	2.50	12.00	16.00	7.00	22.00
12984	577867	5660122	NAD27	21	SPTR10	D	4	Channel	1.30	fine grained beige brown small qtz vein, 1x 10 cm mineralized qtz vein,	378-1717273	2.50	6.10	12.00	401.00	328.00	12.00	102.00
12989	577868	5660121	NAD27	21	SPTR10	D	4	Channel	1.50	fine grained beige dolostone, minor qtz veining, brown dolostone at end of sample	378-1717273	2.50	0.20	2.50	8.00	14.00	4.00	21.00
12424	577938	5660329	NAD27	21	SPTR11	A	1	Channel	1.00	fine grained dolostone with with a few small cm qtz veins, trace sulphides	378-1717353	2.50	0.20	2.50	6.00	15.00	7.00	17.00
12423	577939	5660329	NAD27	21	SPTR11	A	2	Channel	0.90	fine grained dolostone with with a few small cm qtz veins, trace sulphides	378-1717353	2.50	0.10	2.50	6.00	12.00	1.50	16.00
12422	577940	5660329	NAD27	21	SPTR11	A	3	Channel	1.00	fine grained dolostone with with a few small cm qtz veins, trace sulphides	378-1717353	10.00	0.10	2.50	5.00	9.00	1.50	21.00
12421	577941	5660329	NAD27	21	SPTR11	A	4	Channel	0.90	brown beige dolostone with several small qtz veins	378-1717353	8.00	0.80	2.50	66.00	19.00	7.00	29.00
12420	577941	5660329	NAD27	21	SPTR11	A	5	Channel	1.00	brown beige dolostone with several small qtz veins	378-1717353	2.50	0.10	2.50	7.00	10.00	4.00	20.00
12419	577942	5660330	NAD27	21	SPTR11	A	6	Channel	1.00	badly broken rock, little small qtz veins, possible fault zone	378-1717353	2.50	0.10	2.50	6.00	9.00	3.00	128.00
12418	577943	5660325	NAD27	21	SPTR11	A	7	Channel	1.00	brown beige fine grained dolostone, multiple heavily mineralized qtz veins	378-1717353	2.50	4.00	2.50	215.00	244.00	41.00	274.00
12417	577946	5660326	NAD27	21	SPTR11	A	8	Channel	1.00	brown beige broken rock with 1-3 cm qtz vein,	378-1717353	9.00	1.60	2.50	263.00	363.00	4.00	193.00
12416	577946	5660320	NAD27	21	SPTR11	A	9	Channel	0.90	brown beige with several cm scale qtz veins, trace sulphides	378-1717353	2.50	0.30	6.00	18.00	31.00	5.00	39.00
12415	577946	5660325	NAD27	21	SPTR11	A	10	Channel	1.00	fine grained brown weathering dolostone 3-5 cm mineralized qtz vein	378-1717353	2.50	5.00	2.50	305.00	185.00	31.00	50.00
12414	577947	5660328	NAD27	21	SPTR11	A	11	Channel	1.00	dolostone cut by mineralized 1-4 cm qtz veins,	378-1717353	2.50	0.90	2.50	29.00	170.00	8.00	23.00
12413	577947	5660328	NAD27	21	SPTR11	A	12	Channel	1.00	fine grained brownbeige weathering dolostone, mineralized cm scale qtz veins	378-1717353	2.50	2.60	2.50	134.00	62.00	24.00	46.00
12412	577953	5660319	NAD27	21	SPTR11	A	13	Channel	1.10	fine grained brownbeige weathering dolostone, several 3-5 cm qtz veins	378-1717353	2.50	0.60	2.50	23.00	54.00	11.00	34.00
12411	577951	5660327	NAD27	21	SPTR11	A	14	Channel	1.00	brown-beige dolostone with cm scale qtz veins	378-1717353	36.00	1.60	21.00	65.00	308.00	17.00	35.00
12410	577953	5660326	NAD27	21	SPTR11	A	15	Channel	1.00	brown-beige dolostone with cm scale qtz veins	378-1717353	2.50	0.10	2.50	10.00	8.00	6.00	15.00
12409	577952	5660325	NAD27	21	SPTR11	A	16	Channel	1.00	beige fine grained dolostone, some cm scale qtz veins	378-1717353	8.00	0.10	2.50	2.50	12.00	1.50	18.00
12407	577952	5660323	NAD27	21	SPTR11	A	17	Channel	0.80	fine grained dolostone with qtz veins up to 5 cm	378-1717353	2.50	1.60	2.50	101.00	9.00	17.00	72.00
12406	577949	5660326	NAD27	21	SPTR11	A	18	Channel	1.00	fine grained dolostone, 5 cm mineralized qtz veins	378-1717353	2.50	11.20	12.00	489.00	18.00	80.00	93.00
12404	577955	5660322	NAD27	21	SPTR11	A	19	Channel	1.00	fine grained beige-grey dolostone, 2-3 cm qtz veins,	378-1717353	2.50	0.20	7.00	8.00	7.00	4.00	13.00
12403	577955	5660326	NAD27	21	SPTR11	A	20	Channel	1.00	fine grained grey dolostone, minor qtz veining	378-1717353	2.50	0.10	2.50	5.00	6.00	1.50	15.00
12402	577958	5660323	NAD27	21	SPTR11	A	21	Channel	1.00	fine grained grey dolostone minor cm qtz veins	378-1717353	2.50	0.10	2.50	2.50	3.00	1.50	9.00
12401	577959	5660321	NAD27	21	SPTR11	A	22	Channel	1.00	fine grained dolostone, minor qtz veining	378-1717353	2.50	0.10	8.00	15.00	3.00	3.00	10.00

## Appendix 3: Sail Pond Channel Sample List

Sample Number	UTM Easting	UTM Northing	Datum	Zone	Trench ID	Channel ID	Sample Sequence	Sample Type	Sample Length (m)	Summary Sample Description	Certificate(s) Reference	Au(ppb)	Ag(ppm)	As(ppm)	Cu(ppm)	Pb(ppm)	Sb(ppm)	Zn(ppm)
12399	577960	5660322	NAD27	21	SPTR11	A	23	Channel	1.00	fine grained grey-beige dolostone, broken rock	378-1717353	2.50	0.10	2.50	5.00	12.00	5.00	13.00
12398	577959	5660325	NAD27	21	SPTR11	A	24	Channel	1.80	fine grained beige dolostone, fault zone?, broken rock	378-1717353	2.50	0.10	6.00	6.00	11.00	7.00	19.00
12397	577963	5660323	NAD27	21	SPTR11	A	25	Channel	1.00	fine grained grey-beige dolostone, minor veining, broken rock	378-1717353	2.50	0.10	2.50	2.50	7.00	1.50	24.00
12396	577962	5660323	NAD27	21	SPTR11	A	26	Channel	1.00	broken rock, grey to beige, dolostone, minor qtz veining	378-1717353	2.50	0.10	2.50	2.50	13.00	1.50	17.00
12395	577965	5660322	NAD27	21	SPTR11	A	27	Channel	1.00	broken rock, grey to beige, dolostone, minor qtz veining	378-1717353	2.50	0.10	6.00	2.50	4.00	1.50	17.00
12394	577965	5660320	NAD27	21	SPTR11	A	28	Channel	1.00	brown-beige fine grained qtz-carb veining in dolostone, starts at fault zone	378-1717353	2.50	0.10	2.50	2.50	1.00	1.50	16.00
12393	577966	5660321	NAD27	21	SPTR11	A	29	Channel	1.10	fine grained grey dolostone, minor qtz veining, very broken rock	378-1717353	2.50	0.10	2.50	5.00	6.00	1.50	12.00
12392	577968	5660319	NAD27	21	SPTR11	A	30	Channel	1.00	fine grained grey dolostone, minor qtz veining, very broken rock	378-1717353	2.50	0.10	2.50	2.50	6.00	4.00	17.00
12391	577967	5660320	NAD27	21	SPTR11	A	31	Channel	1.00	fine grained crumbly beige-grey dolostone	378-1717353	2.50	0.10	2.50	2.50	9.00	1.50	14.00
12390	577968	5660321	NAD27	21	SPTR11	A	32	Channel	0.90	fine grained crumbly beige-grey dolostone	378-1717353	2.50	0.20	2.50	6.00	18.00	1.50	12.00
12389	577970	5660320	NAD27	21	SPTR11	A	33	Channel	1.00	fine grained crumbly beige-grey dolostone	378-1717353	2.50	0.10	7.00	7.00	17.00	3.00	12.00
12388	577970	5660321	NAD27	21	SPTR11	A	34	Channel	1.00	fine grained crumbly beige-grey dolostone	378-1717353	2.50	0.10	9.00	5.00	7.00	1.50	12.00
12387	577972	5660320	NAD27	21	SPTR11	A	35	Channel	1.00	fine grained beige to grey dolostone, very little qtz veining	378-1717353	2.50	0.10	2.50	5.00	9.00	3.00	13.00
12386	577973	5660319	NAD27	21	SPTR11	A	36	Channel	1.00	fine grained grey dolostone, minor cm scale qtz veining, sucrose texture	378-1717353	2.50	0.10	5.00	6.00	19.00	4.00	139.00
12385	577974	5660316	NAD27	21	SPTR11	B	1	Channel	0.90	brown beige weathering fine grained dolostone, qtz-carb veins	378-1717353	2.50	0.10	2.50	2.50	5.00	5.00	20.00
12384	577974	5660318	NAD27	21	SPTR11	B	2	Channel	1.00	fine grained grey dolostone 5 cm qtz veins at end of sample	378-1717353	2.50	0.20	2.50	2.50	1.00	3.00	11.00
12383	577976	5660315	NAD27	21	SPTR11	B	3	Channel	1.00	fine grained grey dolostone, minor qtz veining, sucrose texture	378-1717353	2.50	0.10	6.00	6.00	4.00	1.50	12.00
12382	577976	5660318	NAD27	21	SPTR11	B	4	Channel	1.00	crumpled dolostone, not much solid rock in sample, small qtz veins	378-1717353	2.50	0.10	2.50	6.00	6.00	4.00	14.00
12381	577979	5660318	NAD27	21	SPTR11	B	5	Channel	1.00	fine grained grey brown dolostone, minor qtz carb veins	378-1717353	2.50	0.10	2.50	6.00	5.00	5.00	15.00
12426	577975	5660315	NAD27	21	SPTR11	C	1	Channel	1.00	fine grained brown beige, very few qtz veins; crosses 12382, beginning of a new NS line	378-1717353	2.50	0.10	2.50	15.00	35.00	5.00	58.00
12427	577975	5660318	NAD27	21	SPTR11	C	2	Channel	1.00	fine grained brown beige, very few qtz veins	378-1717353	6.00	0.10	2.50	2.50	4.00	1.50	39.00
12428	577925	5660316	NAD27	21	SPTR11	C	3	Channel	0.80	brown beige fine grained with a mineralized qtz vein	378-1717353	11.00	1.00	2.50	59.00	19.00	15.00	28.00
12429	577974	5660317	NAD27	21	SPTR11	D	1	Channel	0.35	fine grained brown beige dolostone with qtz veins, mal-chalcoite-galena throughout; treat as a grab sample, channel follows vein	378-1717353, 378-1817834	8.00	111.00	408.00	5730.00	3100.00	1500.00	1143.00
12380	577978	5660322	NAD27	21	SPTR11	E	1	Channel	0.80	light brown to beige dolostone, 4 cm qtz vein	378-1717353	2.50	0.10	5.00	2.50	5.00	3.00	12.00
12379	577978	5660322	NAD27	21	SPTR11	E	2	Channel	1.00	fine grained sugary grey dolostone, minor qtz veining	378-1717353	2.50	0.10	2.50	2.50	4.00	5.00	13.00
12378	577984	5660321	NAD27	21	SPTR11	E	3	Channel	1.00	fine grained grey dolostone broken rock	378-1717353	5.00	0.10	2.50	2.50	8.00	5.00	15.00
12377	577983	5660323	NAD27	21	SPTR11	E	4	Channel	1.10	dolostone, sugary crumbly fine grained, grey	378-1717353	2.50	0.20	5.00	15.00	14.00	4.00	16.00
12374	577983	5660321	NAD27	21	SPTR11	E	5	Channel	1.00	fine grained beige-grey, veinlets of sulphides	378-1717353	11.00	4.20	10.00	212.00	373.00	48.00	46.00
12373	577985	5660320	NAD27	21	SPTR11	E	6	Channel	1.00	fine grained grey dolostone, minor py	378-1717353	2.50	0.10	2.50	2.50	7.00	3.00	13.00
12372	577983	5660319	NAD27	21	SPTR11	E	7	Channel	1.00	fine grained dolostone, several qtz veins	378-1717353	2.50	0.10	2.50	2.50	4.00	1.50	9.00
12371	577986	5660319	NAD27	21	SPTR11	E	8	Channel	1.00	fine grained grey sucrose dolostone, small qtz veins, some py in sample	378-1717353	5.00	0.10	2.50	2.50	1.00	3.00	52.00
12370	577986	5660321	NAD27	21	SPTR11	E	9	Channel	1.00	fine grained grey sucrose dolostone, small qtz veins, some py in sample	378-1717353	2.50	0.10	9.00	2.50	4.00	1.50	22.00
12369	577987	5660319	NAD27	21	SPTR11	E	10	Channel	1.00	fine grained grey beige 3x3 cm qz veins in sample	378-1717353	2.50	0.10	8.00	2.50	4.00	1.50	16.00
12368	578002	5660308	NAD27	21	SPTR11	F	1	Channel	1.10	fine grained brown-beige dolostone with minor qtz veins	378-1717353	2.50	0.10	2.50	2.50	4.00	3.00	8.00
12367	578002	5660308	NAD27	21	SPTR11	F	2	Channel	1.00	fine grained beige to grey dolostone small cm qtz veins	378-1717353	2.50	0.10	2.50	2.50	7.00	1.50	11.00
12366	578002	5660307	NAD27	21	SPTR11	F	3	Channel	1.00	fine grained grey-beige dolostone, some cm scale qtz veins	378-1717353	2.50	0.10	5.00	2.50	2.00	1.50	14.00
12365	578003	5660307	NAD27	21	SPTR11	F	4	Channel	1.00	fine grained beige dtd grey dolostone, no qtz veins	378-1717353	6.00	0.10	6.00	2.50	1.00	4.00	16.00
12364	578005	5660301	NAD27	21	SPTR11	F	5	Channel	1.30	beige to grey dolostone, fewer qtz veins in this sample	378-1717353	2.50	0.10	2.50	2.50	1.00	3.00	22.00
12362	578005	5660303	NAD27	21	SPTR11	F	6	Channel	1.00	beige fine grained dolostone with cm qtz veins	378-1717353	11.00	0.20	2.50	11.00	11.00	5.00	17.00
12361	578004	5660304	NAD27	21	SPTR11	F	7	Channel	1.10	beige fine grained sucrose dolostone with qtz veins	378-1717353	2.50	0.10	6.00	5.00	7.00	1.50	12.00
12360	578006	5660304	NAD27	21	SPTR11	F	8	Channel	1.40	beige fine grained sucrose dolostone with qtz veins	378-1717353	6.00	0.10	9.00	5.00	2.00	1.50	15.00
12359	578011	5660307	NAD27	21	SPTR11	F	9	Channel	1.50	fine grained dolostone brechalcoiteia with several cm qtz veins	378-1717353	2.50	0.10	8.00	6.00	13.00	5.00	14.00
12358	578011	5660299	NAD27	21	SPTR11	F	10	Channel	0.90	Fine grained grey dolostone with some cm qtz veins	378-1717353	2.50	0.10	2.50	9.00	18.00	8.00	14.00
12357	578011	5660298	NAD27	21	SPTR11	F	11	Channel	0.80	Fine grained brown-beige dolostone brechalcoiteia, darker grey patches	378-1717353	9.00	3.50	2.50	135.00	9.00	11.00	27.00
12356	578014	5660300	NAD27	21	SPTR11	F	12	Channel	1.00	Fine grained dolostone brechalcoiteia	378-1717353	2.50	0.10	9.00	2.50	6.00	1.50	10.00
12354	578013	5660301	NAD27	21	SPTR11	F	13	Channel	1.10	fine grained grey limestone, almost cherty	378-1717353	2.50	0.10	2.50	2.50	9.00	1.50	10.00
12471	578546	5661584	NAD27	21	SPTR12	A	1	Channel	1.80	fine grained qtz carb brechalcoiteia, several sets of qtz veins	378-1717234	2.50	0.10	6.00	2.50	1.00	3.00	13.00
12470	578542	5661582	NAD27	21	SPTR12	A	2	Channel	1.50	fine grained qtz carb brechalcoiteia, several sets of qtz veins	378-1717234	2.50	0.10	2.50	2.50	1.00	1.50	11.00

Appendix 3: Sail Pond Channel Sample List

Sample Number	UTM Easting	UTM Northing	Datum	Zone	Trench ID	Channel ID	Sample Sequence	Sample Type	Sample Length (m)	Summary Sample Description	Certificate(s) Reference	Au(ppb)	Ag(ppm)	As(ppm)	Cu(ppm)	Pb(ppm)	Sb(ppm)	Zn(ppm)
12469	578546	5661583	NAD27	21	SPTR12	B	1	Channel	1.35	dolostone brechalcocitela with fragments of rusty sandstone, darker grey in colour	378-1717234	2.50	0.10	5.00	6.00	3.00	1.50	24.00
12468	578548	5661583	NAD27	21	SPTR12	B	2	Channel	1.20	layered sandstone, brown rusty, possible fault zone	378-1717234	2.50	0.10	15.00	18.00	9.00	1.50	26.00
12467	578552	5661578	NAD27	21	SPTR12	C	1	Channel	1.00	dolostone with minor qtz veining, beige in colour	378-1717234	2.50	0.10	2.50	9.00	19.00	5.00	20.00
12466	578552	5661577	NAD27	21	SPTR12	C	2	Channel	1.00	fine grained dolostone, several cm scale qtz veins, some sucrose text dolostone, pyrite	378-1717234	2.50	0.10	5.00	7.00	16.00	8.00	14.00
12465	578551	5661577	NAD27	21	SPTR12	C	3	Channel	1.00	fine grained beige dolostoe with several cm scale qtz veins mineralized	378-1717234	2.50	0.20	5.00	2.50	308.00	4.00	203.00
12464	578552	5661576	NAD27	21	SPTR12	C	4	Channel	1.00	sucrose beige dolostone with a few small cm scale qtz veins	378-1717234	2.50	0.10	2.50	11.00	23.00	3.00	29.00
12463	578550	5661574	NAD27	21	SPTR12	C	5	Channel	1.00	multiple sets of 5-8 cm qtz veins cutting sucrose dolostone	378-1717234	2.50	1.80	2.50	68.00	15.00	4.00	15.00
12462	578549	5661573	NAD27	21	SPTR12	C	6	Channel	1.00	spider web of qtz	378-1717234	2.50	4.60	2.50	161.00	5.00	4.00	20.00
12461	578548	5661569	NAD27	21	SPTR12	C	7	Channel	1.00	90% qtz vein, many veins (like a spider web) minor dolostone	378-1717234	2.50	0.10	2.50	15.00	16.00	6.00	17.00
12460	578548	5661571	NAD27	21	SPTR12	C	8	Channel	1.00	multiple sets of qtz veins 90% qtz some patches of dolostone	378-1717234	2.50	0.70	2.50	112.00	224.00	11.00	82.00
12459	578557	5661576	NAD27	21	SPTR12	D	1	Channel	0.60	beige dolostone with samll qtz veins at beginning then suagary dolostone	378-1717234	2.50	0.10	10.00	15.00	24.00	7.00	23.00
12458	578557	5661574	NAD27	21	SPTR12	D	2	Channel	1.00	fine grained dolostone, beige, 2x 3-5 cm veins, some smaller veins	378-1717234	2.50	0.10	2.50	23.00	61.00	6.00	18.00
12457	578559	5661573	NAD27	21	SPTR12	D	3	Channel	1.00	fine grained beige dolostone with a couple of cm scale qtz veins	378-1717234	2.50	0.10	2.50	17.00	13.00	3.00	13.00
12456	578557	5661572	NAD27	21	SPTR12	D	4	Channel	1.00	Dolostone with several 3-5 cm qtz veins, beige in colour	378-1717234	2.50	0.30	5.00	36.00	115.00	15.00	53.00
12453	578557	5661571	NAD27	21	SPTR12	D	5	Channel	1.00	first 60 cm is dolostone with cm scale qtz vein, rest is qtz, heavily mineralized	378-1717234, 378-1817832	31.00	67.50	163.00	4170.00	520.00	800.00	655.00
12452	578558	5661572	NAD27	21	SPTR12	D	6	Channel	1.00	fine grained sugary dolostone with several cm scale qtz veins	378-1717234	2.50	0.10	6.00	44.00	51.00	15.00	41.00
12451	578557	5661568	NAD27	21	SPTR12	D	7	Channel	0.90	90% qtz vein, remainder dolostone	378-1717234	2.50	0.30	5.00	28.00	40.00	4.00	21.00
12449	578557	5661568	NAD27	21	SPTR12	D	8	Channel	1.00	sugary brown dolostone with some cm scale qtz veins, pyrite	378-1717234	2.50	0.10	5.00	24.00	57.00	7.00	40.00
12448	578555	5661568	NAD27	21	SPTR12	D	9	Channel	0.90	sugary brown dolostone with some cm scale qtz veins, pyrite	378-1717234	2.50	0.10	2.50	17.00	33.00	1.50	23.00
12436	578558	5661566	NAD27	21	SPTR12	E	1	Channel	1.00	fine grained brown sucrose dolostone, minor qtz veining	378-1717234	2.50	0.10	2.50	10.00	8.00	3.00	14.00
12437	578561	5661567	NAD27	21	SPTR12	E	2	Channel	1.00	fine grained brown sucrose dolostone, minor qtz veining	378-1717234	2.50	0.10	7.00	11.00	26.00	5.00	26.00
12438	578559	5661567	NAD27	21	SPTR12	E	3	Channel	1.00	fine grained brown sucrose dolostone, minor qtz veining	378-1717234	2.50	0.30	5.00	29.00	45.00	3.00	35.00
12439	578560	5661570	NAD27	21	SPTR12	E	4	Channel	1.00	brown dolostone with several 3-5 cm qtz veins, part of sample sugary, rest compact	378-1717234	2.50	0.10	11.00	22.00	162.00	14.00	39.00
12440	578564	5661568	NAD27	21	SPTR12	E	5	Channel	1.00	90% qtz, remainder dolostone	378-1717234	2.50	0.70	10.00	32.00	591.00	12.00	27.00
12441	578563	5661570	NAD27	21	SPTR12	E	6	Channel	1.00	fine grained brown dolostone with several sets of qtz veins, most mineralized	378-1717234	12.00	45.70	442.00	1280.00	8300.00	283.00	1029.00
12442	578566	5661570	NAD27	21	SPTR12	E	7	Channel	1.00	fine grained brown dolostone, several large qtz veins	378-1717234	2.50	0.50	44.00	21.00	537.00	13.00	41.00
12443	578563	5661572	NAD27	21	SPTR12	E	8	Channel	0.90	brown beige sucrose dolostone with several cm scale qtz veins	378-1717234	2.50	0.10	9.00	27.00	90.00	18.00	38.00
12444	578565	5661573	NAD27	21	SPTR12	E	9	Channel	1.00	sugary dolostone, brown beige, minor qtz veins, 1 small mineralized vein	378-1717234	2.50	3.50	5.00	331.00	63.00	22.00	47.00
12445	578566	5661574	NAD27	21	SPTR12	E	10	Channel	1.00	beige sugary dolostone with minor qtz veining, pyrite	378-1717234	2.50	0.10	2.50	20.00	214.00	12.00	21.00
12446	578563	5661572	NAD27	21	SPTR12	E	11	Channel	1.00	beige sugary dolostone with minor qtz veining, pyrite	378-1717234	2.50	0.10	2.50	19.00	26.00	15.00	17.00
12447	578564	5661577	NAD27	21	SPTR12	E	12	Channel	1.00	fine grained beige dolostone with minor qtz veining	378-1717234	2.50	0.10	8.00	10.00	22.00	1.50	15.00
12430	578563	5661568	NAD27	21	SPTR12	F	1	Channel	1.00	fine grained brown dolostone with 2-5 cm heavily mineralized qtz veins, other cm scale veins	378-1717234, 378-1817832	16.00	64.30	362.00	2942.00	13200.00	600.00	455.00
12431	578564	5661567	NAD27	21	SPTR12	F	2	Channel	1.00	90% qtz vein, remainder dolostone, trace sulphides	378-1717234	2.50	0.20	9.00	17.00	42.00	10.00	11.00
12432	578566	5661568	NAD27	21	SPTR12	F	3	Channel	1.00	fine grained brown dolostone with several mineralized qtz veins 3-5 cm	378-1717234	2.50	2.60	19.00	509.00	332.00	37.00	96.00
12433	578566	5661567	NAD27	21	SPTR12	F	4	Channel	1.10	fine grained brown- beige dolostone, several 2.5 cm qtz veins	378-1717234	2.50	0.10	8.00	19.00	150.00	15.00	30.00
12434	578566	5661569	NAD27	21	SPTR12	F	5	Channel	1.00	fine grained with several 2.5 cm qtz veins mineralized	378-1717234	2.50	1.10	11.00	161.00	82.00	11.00	33.00
12435	578566	5661569	NAD27	21	SPTR12	F	6	Channel	0.90	fine grained with several 2.5 cm qtz veins mineralized	378-1717234	2.50	0.10	8.00	11.00	32.00	12.00	33.00
11313	578649	5661799	NAD27	21	SPTR13	A	1	Channel	0.60	beige weathering fine grained dolostone with qtz-carb veining	378-1717353	9.00	0.10	6.00	16.00	14.00	6.00	44.00
11312	578649	5661797	NAD27	21	SPTR13	A	2	Channel	1.00	beige weathering fine grained dolostone with qtz-carb veining	378-1717353	2.50	0.10	2.50	10.00	9.00	1.50	26.00
11311	578651	5661793	NAD27	21	SPTR13	A	3	Channel	1.00	fine grained dolostone, 10 cm of brown sandstone	378-1717353	2.50	0.10	5.00	21.00	20.00	5.00	43.00
11310	578652	5661794	NAD27	21	SPTR13	A	4	Channel	1.50	most of sample is dolostone with qtz-carb veining, 10 cm zone of brown dolostone	378-1717353	2.50	0.50	7.00	25.00	12.00	3.00	27.00
11309	578650	5661793	NAD27	21	SPTR13	A	5	Channel	1.00	fine grained dolostone, 2x 3-5 cm qtz veins	378-1717353	8.00	5.20	9.00	285.00	34.00	72.00	62.00
11308	578652	5661794	NAD27	21	SPTR13	A	6	Channel	0.90	dolostone with qtz-carb veining, several 3-5 cm milky white qtz veins, minor sulphides at beginning of sample	378-1717353	2.50	0.90	9.00	48.00	47.00	7.00	20.00
11306	578654	5661793	NAD27	21	SPTR13	A	7	Channel	1.30	dolostone, qtz-carb veining, mineralized 40 cm qtz vein	378-1717353	5.00	31.70	82.00	1301.00	126.00	328.00	660.00
11304	578655	5661791	NAD27	21	SPTR13	A	8	Channel	1.00	fine grained grey dolostone, qtz-carb veining	378-1717353	2.50	0.80	2.50	7.00	520.00	4.00	12.00
11303	578655	5661789	NAD27	21	SPTR13	A	9	Channel	1.00	fine grained grey dolostone, qtz-carb veining	378-1717353	2.50	0.30	2.50	13.00	191.00	3.00	17.00
11302	578657	5661792	NAD27	21	SPTR13	A	10	Channel	1.00	fine grained grey dolostone, qtz carb veining	378-1717353	2.50	3.00	2.50	137.00	13.00	33.00	40.00
11301	578658	5661788	NAD27	21	SPTR13	A	11	Channel	1.00	fine grained grey dolostone, qtz carb veining	378-1717353	2.50	0.10	2.50	5.00	6.00	4.00	17.00

Appendix 3: Sail Pond Channel Sample List

Sample Number	UTM Easting	UTM Northing	Datum	Zone	Trench ID	Channel ID	Sample Sequence	Sample Type	Sample Length (m)	Summary Sample Description	Certificate(s) Reference	Au(ppb)	Ag(ppm)	As(ppm)	Cu(ppm)	Pb(ppm)	Sb(ppm)	Zn(ppm)
12499	578659	5661791	NAD27	21	SPTR13	A	12	Channel	1.00	fine grained brown/ beige weathering dolostone with qtz-carb veins	378-1717353	2.50	0.10	2.50	9.00	9.00	3.00	17.00
12498	578660	5661789	NAD27	21	SPTR13	A	13	Channel	1.40	Starts with dolostone then darker gre then sandstone back to dolostone	378-1717353	2.50	0.20	8.00	22.00	16.00	1.50	48.00
12497	578674	5661777	NAD27	21	SPTR13	B	1	Channel	1.00	white/ rusty looking marble	378-1717353	2.50	0.20	8.00	5.00	7.00	3.00	5.00
12496	578676	5661775	NAD27	21	SPTR13	B	2	Channel	1.00	white/ rusty looking marble	378-1717353	2.50	0.10	14.00	2.50	3.00	1.50	6.00
12495	578678	5661775	NAD27	21	SPTR13	B	3	Channel	1.00	white/ rusty looking marble	378-1717353	2.50	0.20	2.50	12.00	8.00	5.00	17.00
12494	578678	5661774	NAD27	21	SPTR13	B	4	Channel	1.00	white/ rusty looking marble	378-1717353	2.50	0.10	2.50	9.00	6.00	1.50	16.00
12493	578677	5661774	NAD27	21	SPTR13	B	5	Channel	1.00	qtz carb dolostone with several blebs of qtz sticking out on top.	378-1717353, 378-1817834	41.00	53.10	76.00	2670.00	384.00	700.00	597.00
12492	578677	5661773	NAD27	21	SPTR13	B	6	Channel	0.80	brown beige weathering fine grained grey dolostone, qtz carb veining	378-1717353	2.50	0.30	2.50	14.00	54.00	12.00	31.00
12491	578678	5661772	NAD27	21	SPTR13	B	7	Channel	1.00	fine grained dolostone w 2-3 cm qtz-carb veining	378-1717353	6.00	0.10	13.00	11.00	12.00	6.00	24.00
12490	578678	5661773	NAD27	21	SPTR13	B	8	Channel	0.80	fine grained beige to brown weathering grey on fresh dolostone, cm scale qtz-carb veining	378-1717353	2.50	0.10	2.50	5.00	12.00	1.50	20.00
12489	578680	5661772	NAD27	21	SPTR13	B	9	Channel	1.00	50 cm dolostone with minor qtz veining, 10 cm sandstone, then dolo w minor qtz veining	378-1717353	2.50	0.10	2.50	2.50	6.00	1.50	21.00
12488	578678	5661767	NAD27	21	SPTR13	C	1	Channel	1.00	fine grained beige dolostone w blebs of qtz on top and throughout	378-1717353	6.00	0.10	2.50	5.00	3.00	3.00	22.00
12487	578678	5661769	NAD27	21	SPTR13	C	2	Channel	1.00	dolostone with qtz-carb veins with a few cm scale qtz veins, minor sandstone.	378-1717353	2.50	0.10	2.50	10.00	14.00	5.00	28.00
12486	578679	5661768	NAD27	21	SPTR13	C	3	Channel	1.00	first 70 cm is brown rusty sadstone, followed by 3 cm qtz vein dolostone with qtz-carb veining	378-1717353	2.50	0.20	2.50	12.00	13.00	1.50	33.00
12485	578681	5661768	NAD27	21	SPTR13	C	4	Channel	1.00	first 20 cm mineralized dolostone, 10 cm sandstone 50 cm qtz-carb bearing dolostone, back to 20 cm of brown sandstone	378-1717353	2.50	2.50	20.00	91.00	155.00	25.00	68.00
12483	578681	5661767	NAD27	21	SPTR13	C	5	Channel	1.10	fine grained dolostone, qtz-carb veining in dolostone	378-1717353	6.00	9.00	30.00	317.00	116.00	76.00	139.00
12482	578682	5661767	NAD27	21	SPTR13	C	6	Channel	1.00	10 cm of dolostone, 10 cm mineralized sandstone, then small dolomite, back to sandstone to dol to sandstone (mal/chalcolite in dol)	378-1717353, 378-1817834	30.00	76.70	797.00	3572.00	239.00	800.00	921.00
12481	578685	5661765	NAD27	21	SPTR13	C	7	Channel	1.00	fine grained beige dolostone, 2-3 small cm scale qtz veins	378-1717353	2.50	0.70	8.00	14.00	474.00	6.00	29.00
12480	578687	5661764	NAD27	21	SPTR13	C	8	Channel	1.00	first 70 cm is brown sandstone (fault) the remaining 30 cm is dolomite w minor veining	378-1717353	9.00	0.10	2.50	32.00	80.00	7.00	48.00
12479	578690	5661759	NAD27	21	SPTR13	D	1	Channel	1.00	fine grained beige dolostone, qtz-carb veins	378-1717353	6.00	0.10	2.50	5.00	5.00	3.00	15.00
12478	578690	5661755	NAD27	21	SPTR13	D	2	Channel	0.90	first 40 cm is brown sandstone followed by 50 cm of fine grained dolomite	378-1717353	5.00	0.10	9.00	5.00	105.00	4.00	18.00
12477	578689	5661751	NAD27	21	SPTR13	D	3	Channel	1.30	fine grained dolostone qtz-carb, blebs of qtz veins of top of dolostone	378-1717353	11.00	2.40	17.00	105.00	197.00	30.00	49.00
12476	578693	5661758	NAD27	21	SPTR13	D	4	Channel	1.20	fine grained brown-black sandstone (fault) cutting the dolostone on both sides.	378-1717353	2.50	0.20	14.00	17.00	96.00	1.50	158.00
12474	578695	5661756	NAD27	21	SPTR13	D	5	Channel	1.00	Fine grained beige dolostone with several cm scale qtz-carb veins.	378-1717353	5.00	0.10	2.50	2.50	4.00	1.50	12.00
12473	578695	5661758	NAD27	21	SPTR13	D	6	Channel	1.00	Fine grained beige dolostone with several cm scale qtz-carb veins.	378-1717353	2.50	0.10	10.00	5.00	2.00	4.00	13.00
12472	578697	5661760	NAD27	21	SPTR13	D	7	Channel	0.70	fine grained beige cm scale qtz veins, pyrite in dolostone	378-1717353	2.50	0.10	2.50	2.50	1.00	4.00	9.00
14722	578603	5661653	NAD27	21	SPTR14	A	1	Channel	1.20	plain white to grey dolostone, broken rock	378-1717354	2.50	0.10	6.00	2.50	5.00	1.50	14.00
14723	578603	5661653	NAD27	21	SPTR14	A	2	Channel	1.50	plain white to grey dolostone, broken rock	378-1717354	2.50	0.10	11.00	2.50	4.00	3.00	9.00
14724	578603	5661653	NAD27	21	SPTR14	A	3	Channel	1.00	fine grained dolostone, white grey small rusty zone with sulphides, small 3 cm qtz vein with mal-chalcolite	378-1717354, 378-1817832	2.50	218.40	746.00	14800.00	136.00	3200.00	5400.00
14727	578603	5661651	NAD27	21	SPTR14	A	4	Channel	2.00	dull looking grey white dolostone, no veining	378-1717354	2.50	1.30	20.00	86.00	92.00	17.00	185.00
14728	578604	5661648	NAD27	21	SPTR14	A	5	Channel	2.00	dull looking grey white dolostone	378-1717354	2.50	2.00	16.00	127.00	9.00	22.00	41.00
14729	578602	5661646	NAD27	21	SPTR14	A	6	Channel	2.00	dull looking grey white dolostone	378-1717354	2.50	0.10	12.00	2.50	6.00	3.00	12.00
14730	578602	5661645	NAD27	21	SPTR14	A	7	Channel	1.00	dull looking grey white dolostone	378-1717354	2.50	0.10	8.00	5.00	9.00	1.50	18.00
14721	578603	5661655	NAD27	21	SPTR14	B	1	Channel	2.20	fine grained grey dolostone	378-1717354	2.50	0.10	8.00	7.00	7.00	3.00	13.00
14720	578598	5661652	NAD27	21	SPTR14	B	2	Channel	1.30	fine grained grey dolostone	378-1717354	2.50	0.10	7.00	6.00	3.00	1.50	10.00
14719	578597	5661652	NAD27	21	SPTR14	B	3	Channel	1.50	fine grained grey dolostone	378-1717354	2.50	0.20	11.00	2.50	548.00	6.00	11.00
14718	578599	5661650	NAD27	21	SPTR14	B	4	Channel	1.00	fine grained grey dolostone	378-1717354	2.50	0.10	11.00	2.50	4.00	1.50	11.00
14717	578602	5661649	NAD27	21	SPTR14	B	5	Channel	1.00	fine grained dolostone, broken rock	378-1717354	2.50	0.10	7.00	2.50	4.00	1.50	9.00
14716	578600	5661650	NAD27	21	SPTR14	B	6	Channel	1.00	fine grained dolostone, broken rock	378-1717354	2.50	1.10	6.00	72.00	8.00	7.00	20.00
14715	578602	5661648	NAD27	21	SPTR14	B	7	Channel	1.20	fine grained grey dolostone, minor qtz veining with sulphides	378-1717354	2.50	11.60	8.00	377.00	786.00	81.00	73.00
14714	578602	5661648	NAD27	21	SPTR14	B	8	Channel	1.00	fine grained grey dolostone, starting to see minor qtz veining	378-1717354	2.50	0.10	10.00	2.50	61.00	1.50	15.00
14713	578604	5661648	NAD27	21	SPTR14	B	9	Channel	1.50	fine grained grey dolostone, minor qtz-carb veining	378-1717354	2.50	0.10	7.00	2.50	3.00	1.50	5.00
14712	578605	5661647	NAD27	21	SPTR14	B	10	Channel	1.50	fine grained grey dolostone, minor qtz-carb veining	378-1717354	2.50	0.10	6.00	2.50	2.00	1.50	7.00
14711	578607	5661646	NAD27	21	SPTR14	B	11	Channel	1.50	fine grained grey dolostone, minor qtz-carb veining	378-1717354	2.50	0.10	2.50	2.50	2.00	1.50	14.00
14710	578609	5661645	NAD27	21	SPTR14	B	12	Channel	1.00	white to grey layered limestone	378-1717354	2.50	0.10	6.00	2.50	3.00	1.50	5.00
14709	578610	5661643	NAD27	21	SPTR14	C	1	Channel	1.50	fine grained dolostone with minor qtz veining	378-1717354	2.50	0.10	6.00	2.50	1.00	1.50	12.00
14708	578610	5661641	NAD27	21	SPTR14	C	2	Channel	0.80	fine grained dolostone with minor qtz veining	378-1717354	2.50	0.10	10.00	2.50	4.00	3.00	12.00
14707	578612	5661640	NAD27	21	SPTR14	C	3	Channel	1.00	fine grained silicified dolostone, 1-2 cm qtz veins, minor qtz veining with sulphides	378-1717354	2.50	0.10	12.00	15.00	17.00	3.00	15.00

Appendix 3: Sail Pond Channel Sample List

Sample Number	UTM Easting	UTM Northing	Datum	Zone	Trench ID	Channel ID	Sample Sequence	Sample Type	Sample Length (m)	Summary Sample Description	Certificate(s) Reference	Au(ppb)	Ag(ppm)	As(ppm)	Cu(ppm)	Pb(ppm)	Sb(ppm)	Zn(ppm)
14706	578614	5661641	NAD27	21	SPTR14	C	4	Channel	1.00	fine grained silicified dolostone, 1-2 cm qtz veins, rusty brown weathering, fine grained pyrite	378-1717354	2.50	0.10	2.50	15.00	14.00	1.50	15.00
14704	578614	5661640	NAD27	21	SPTR14	C	5	Channel	1.00	fine grained dolostone, qtz-carb veining, 10 cm	378-1717354	2.50	0.10	12.00	7.00	5.00	1.50	16.00
14703	578617	5661640	NAD27	21	SPTR14	C	6	Channel	1.00	fine grained grey dolostone, minor qtz & carb veining	378-1717354	2.50	0.10	16.00	6.00	14.00	1.50	22.00
14702	578615	5661638	NAD27	21	SPTR14	C	7	Channel	1.50	fine grained grey dolostone, minor qtz & carb veining	378-1717354	2.50	0.10	6.00	5.00	14.00	1.50	31.00
14701	578618	5661640	NAD27	21	SPTR14	C	8	Channel	1.60	fine grained grey dolostone, minor qtz & carb veining	378-1717354	2.50	0.10	12.00	12.00	10.00	1.50	25.00
11399	578619	5661639	NAD27	21	SPTR14	C	9	Channel	1.50	fine grained dolostone with minor qtz veining, possible sandstone fault cutting through	378-1717354	2.50	0.10	13.00	13.00	7.00	1.50	19.00
11398	578621	5661638	NAD27	21	SPTR14	C	10	Channel	1.30	fine grained dolostone, qtz carb veining cm scale	378-1717354	2.50	0.10	13.00	7.00	8.00	1.50	14.00
11397	578630	5661632	NAD27	21	SPTR14	D	1	Channel	1.30	fine grained silicified grey carb veined dolostone	378-1717354	2.50	0.10	6.00	2.50	9.00	1.50	12.00
11396	578630	5661630	NAD27	21	SPTR14	D	2	Channel	1.30	fine grained silicified grey carb veined dolostone	378-1717354	5.00	0.10	10.00	2.50	8.00	1.50	15.00
11395	578632	5661627	NAD27	21	SPTR14	D	3	Channel	1.40	fine grained silicified grey carb veined dolostone	378-1717354	7.00	0.10	8.00	2.50	3.00	1.50	18.00
11394	578632	5661678	NAD27	21	SPTR14	D	4	Channel	0.50	fine grained silicified grey carb veined dolostone	378-1717354	2.50	0.10	9.00	2.50	7.00	1.50	13.00
11393	578635	5661628	NAD27	21	SPTR14	D	5	Channel	1.00	fine grained dolostone qtz carb veining	378-1717354	2.50	0.10	12.00	9.00	7.00	3.00	21.00
11392	578635	5661623	NAD27	21	SPTR14	D	6	Channel	1.40	fine grained dolostone qtz carb veining	378-1717354	2.50	0.10	14.00	13.00	14.00	1.50	21.00
11391	578637	5661628	NAD27	21	SPTR14	D	7	Channel	1.40	fine grained dolostone qtz carb veining	378-1717354	2.50	0.10	15.00	11.00	11.00	1.50	20.00
11390	578637	5661627	NAD27	21	SPTR14	E	1	Channel	1.00	fine grained silicified dolostone, some carb veins	378-1717354	2.50	0.10	6.00	2.50	2.00	4.00	10.00
11389	578640	5661628	NAD27	21	SPTR14	E	2	Channel	1.00	fine grained silicified dolostone, some carb veins	378-1717354	2.50	0.10	6.00	2.50	7.00	1.50	9.00
11388	578640	5661628	NAD27	21	SPTR14	E	3	Channel	1.00	partly dolostone, rest silicified sandstone, some very fine grained pyrite	378-1717354	2.50	0.40	11.00	35.00	22.00	4.00	22.00
11387	578640	5661627	NAD27	21	SPTR14	E	4	Channel	1.00	partly dolostone, rest silicified sandstone, some very fine grained pyrite	378-1717354	2.50	0.80	10.00	38.00	11.00	6.00	21.00
11386	578642	5661628	NAD27	21	SPTR14	E	5	Channel	1.00	Fine grained silicified cherty sandstone, grey-blue, black qtz xtls (calcite?)	378-1717354	6.00	0.10	17.00	22.00	9.00	7.00	30.00
11385	578643	5661625	NAD27	21	SPTR14	F	1	Channel	1.00	Fine grained silicified-cherty sandstone, rusty brown weathering, lots of fine grained pyrite	378-1717354	2.50	0.10	14.00	13.00	9.00	3.00	21.00
11384	578645	5661625	NAD27	21	SPTR14	F	2	Channel	0.90	Fine grained silicified-cherty sandstone, rusty brown weathering, lots of fine grained pyrite	378-1717354	2.50	0.10	15.00	14.00	9.00	3.00	33.00
11382	578643	5661623	NAD27	21	SPTR14	F	3	Channel	1.00	fine grained grey-blue silicified sandstone, pyrite in places and also blue-black mineral	378-1717354	2.50	0.10	9.00	9.00	11.00	1.50	18.00
11381	578646	5661624	NAD27	21	SPTR14	F	4	Channel	1.70	fine grained grey dolostone, no qtz veining	378-1717354	2.50	0.10	2.50	2.50	8.00	1.50	10.00
11380	578646	5661623	NAD27	21	SPTR14	F	5	Channel	1.30	fine grained grey dolostone, no qtz veining	378-1717354	2.50	0.10	10.00	17.00	13.00	1.50	26.00
11379	578647	5661622	NAD27	21	SPTR14	F	6	Channel	0.90	fine grained grey dolostone, no qtz veining	378-1717354	2.50	0.10	11.00	5.00	12.00	1.50	14.00
11378	578648	5661623	NAD27	21	SPTR14	F	7	Channel	0.50	fine grained blue grey dolostone, no qtz veining	378-1717354	2.50	0.10	8.00	2.50	6.00	1.50	15.00
11377	578650	5661623	NAD27	21	SPTR14	F	8	Channel	0.70	rusty brown weathering fine grained sandstone	378-1717354	2.50	0.10	10.00	6.00	14.00	1.50	32.00
11376	578650	5661623	NAD27	21	SPTR14	F	9	Channel	0.50	rusty brown weathering fine grained sandstone	378-1717354	2.50	0.10	20.00	11.00	38.00	1.50	65.00
11374	578651	5661623	NAD27	21	SPTR14	F	10	Channel	1.30	rusty brown weathering fine grained sandstone	378-1717354	2.50	0.10	21.00	11.00	17.00	1.50	41.00
11373	578652	5661622	NAD27	21	SPTR14	F	11	Channel	0.70	rusty brown weathering fine grained sandstone	378-1717354	2.50	0.10	19.00	7.00	10.00	1.50	18.00
11372	578652	5661623	NAD27	21	SPTR14	F	12	Channel	0.60	fine grained grey dolostone, no qtz veining	378-1717354	2.50	0.10	6.00	2.50	5.00	1.50	10.00
14816	578715	5662301	NAD27	21	SPTR15	A	1	Channel	0.80	qtz-carb dolostone brechalociteia, several sets of qtz veins, cm size	378-1717272	2.50	0.20	2.50	2.50	2.00	1.50	2.50
14815	578721	5662299	NAD27	21	SPTR15	B	1	Channel	0.70	50 cm qtz veins ssa dolostone, then limestone	378-1717272	2.50	0.10	2.50	2.50	1.00	1.50	2.50
14814	578731	5662300	NAD27	21	SPTR15	C	1	Channel	1.40	qtz carb dolostoe brechalociteia, lots of cm scale qtz veins	378-1717272	2.50	1.10	11.00	33.00	44.00	10.00	41.00
14813	578731	5662298	NAD27	21	SPTR15	C	2	Channel	1.50	grey fine grained dolostone, silicified with several sets of cm scale qtz veins	378-1717272	2.50	0.10	2.50	2.50	1.00	1.50	2.50
14812	578733	5662298	NAD27	21	SPTR15	C	3	Channel	1.03	grey silicified fine grained sandstone and end of sample is a 2 cm qtz vein	378-1717272	2.50	0.10	5.00	2.50	4.00	1.50	2.50
14811	578732	5662299	NAD27	21	SPTR15	C	4	Channel	1.10	fine grey-dark grey with multiple sets of qtz-carb veins (massive limestone)	378-1717272	2.50	0.10	2.50	2.50	4.00	1.50	10.00
14810	578733	5662299	NAD27	21	SPTR15	C	5	Channel	0.90	black-blue layered shale (limestone?)	378-1717272	2.50	0.10	2.50	2.50	10.00	1.50	2.50
14809	578736	5662298	NAD27	21	SPTR15	C	6	Channel	1.00	fine grained grey dolostone w mineralized qtz vein	378-1717272	2.50	0.10	9.00	2.50	11.00	1.50	2.50
14808	578737	5662295	NAD27	21	SPTR15	C	8	Channel	0.90	dark grey fine grained dolostone, cm scale qtz veins and 1x4 cm vein	378-1717272	2.50	0.10	2.50	2.50	28.00	1.50	5.00
14807	578738	5662299	NAD27	21	SPTR15	D	1	Channel	0.50	dark grey fine grained dolomite w qtz veining	378-1717272	2.50	0.10	5.00	2.50	5.00	1.50	2.50
14806	578742	5662301	NAD27	21	SPTR15	D	2	Channel	0.60	grey-brown-white limestone	378-1717272	2.50	0.10	2.50	2.50	3.00	4.00	6.00
14804	578737	5662295	NAD27	21	SPTR15	E	1	Channel	1.00	fine grained dolostone, mineralized qtz vein	378-1717272	5.00	38.00	27.00	949.00	21.00	115.00	123.00
14803	578742	5662295	NAD27	21	SPTR15	E	2	Channel	0.90	fine grained dolostone, 3 cm qtz vein	378-1717272	2.50	0.10	5.00	2.50	8.00	1.50	2.50
14802	578743	5662297	NAD27	21	SPTR15	F	1	Channel	1.50	30 cm of white limestone, fine grained dolostone with minor cm scale qtz veining	378-1717272	2.50	0.10	2.50	2.50	7.00	1.50	2.50
14801	578744	5662296	NAD27	21	SPTR15	F	2	Channel	0.90	fine grained grey dolostone with qtz carb veining, last 10 cm is white limestone	378-1717272	2.50	0.10	2.50	6.00	22.00	1.50	2.50

Appendix 3: Sail Pond Channel Sample List

Sample Number	UTM Easting	UTM Northing	Datum	Zone	Trench ID	Channel ID	Sample Sequence	Sample Type	Sample Length (m)	Summary Sample Description	Certificate(s) Reference	Au(ppb)	Ag(ppm)	As(ppm)	Cu(ppm)	Pb(ppm)	Sb(ppm)	Zn(ppm)
14799	578746	5662296	NAD27	21	SPTR15	F	3	Channel	1.30	fine grained grey dolostone qtz carb veining	378-1717272	2.50	0.10	5.00	15.00	29.00	3.00	11.00
14798	578750	5662296	NAD27	21	SPTR15	F	4	Channel	1.30	fine grained grey dolostone qtz carb veining	378-1717272	7.00	0.10	2.50	8.00	16.00	5.00	20.00
14797	578754	5662295	NAD27	21	SPTR15	G	1	Channel	0.90	fine grained grey dolostone qtz carb veining	378-1717272	2.50	0.20	6.00	10.00	3.00	1.50	11.00
14796	578754	5662296	NAD27	21	SPTR15	H	1	Channel	0.60	fine grained grey dolostone qtz carb veining	378-1717272	2.50	0.20	2.50	2.50	38.00	4.00	13.00
14795	578761	5662295	NAD27	21	SPTR15	I	1	Channel	1.04	20 cm white limestone, remainder is grey dolostone w qtz carb veining	378-1717272	5.00	0.10	7.00	2.50	3.00	3.00	11.00
14794	578761	5662297	NAD27	21	SPTR15	I	2	Channel	1.00	fine grained grey dolostone, minor qtz veining	378-1717272	2.50	0.10	2.50	5.00	6.00	3.00	13.00
14793	578761	5662295	NAD27	21	SPTR15	I	3	Channel	1.00	fine grained grey dolostone, minor qtz veining	378-1717272	2.50	0.10	5.00	6.00	7.00	76.00	12.00
14792	578764	5662298	NAD27	21	SPTR15	J	1	Channel	0.80	fine grained grey dolostone, minor qtz veining	378-1717272	2.50	0.10	2.50	2.50	1.00	3.00	8.00
14791	578765	5662299	NAD27	21	SPTR15	K	1	Channel	1.80	fine grained grey dolostone, lots of cm scale qtz veins	378-1717272	7.00	0.50	2.50	19.00	49.00	5.00	12.00
14790	578767	5662296	NAD27	21	SPTR15	K	2	Channel	1.00	fine grained dk grey dolostone cm scale qtz veins	378-1717272	6.00	0.10	2.50	16.00	4.00	7.00	11.00
14789	578776	5662294	NAD27	21	SPTR15	L	1	Channel	1.00	fine grained grey dolostone, minor qtz veining	378-1717272	8.00	3.20	7.00	82.00	10.00	15.00	20.00
14788	578775	5662297	NAD27	21	SPTR15	L	2	Channel	1.00	70% rusty brown sandstone (fault) remainder dolostone	378-1717272	2.50	0.10	2.50	15.00	6.00	5.00	25.00
14787	578775	5662298	NAD27	21	SPTR15	L	3	Channel	0.70	Fine grained dk grey silicified dolostone	378-1717272	2.50	0.10	12.00	9.00	1.00	1.50	15.00
14786	578777	5662296	NAD27	21	SPTR15	M	1	Channel	1.00	fine grained dolostone, lots of qtz veining	378-1717272, 378-1817832	6.00	62.50	101.00	2851.00	595.00	800.00	573.00
14785	578784	5662297	NAD27	21	SPTR15	N	1	Channel	0.80	fine grained grey dolostone silicified	378-1717272	2.50	0.10	2.50	13.00	12.00	5.00	13.00
14784	578799	5662293	NAD27	21	SPTR15	O	1	Channel	1.00	fine grained grey dolostone, minor qtz-carb veining	378-1717272	5.00	0.10	2.50	5.00	3.00	5.00	12.00
14783	578790	5662292	NAD27	21	SPTR15	P	1	Channel	1.00	silicified grey fine grained dolostone	378-1717272	7.00	0.10	2.50	2.50	6.00	3.00	8.00
14782	578797	5662292	NAD27	21	SPTR15	Q	1	Channel	0.80	starts with 10 cm grey dolostone, 10 cm rust sandstone, 20 cm dolostone, 20 cm rusty sandstone	378-1717272	2.50	1.50	13.00	47.00	175.00	18.00	98.00
14781	578800	5662300	NAD27	21	SPTR15	Q	2	Channel	1.00	fine grained grey dolostone, badly broken rock minor cm scale qtz veins	378-1717272	2.50	0.70	9.00	14.00	122.00	10.00	25.00
14780	578799	5662295	NAD27	21	SPTR15	Q	3	Channel	1.00	fine grained grey dolostone, minor minz, qtz-carb veining	378-1717272, 378-1817832	20.00	61.00	81.00	1441.00	1684.00	281.00	4300.00
14779	578808	5662292	NAD27	21	SPTR15	R	1	Channel	1.00	silicified cherty grey dolostone, no veining	378-1717272	5.00	4.10	8.00	131.00	283.00	22.00	50.00
14777	578815	5662293	NAD27	21	SPTR15	S	1	Channel	1.00	fine grained dolostone, with qtz-carb veining some mineralization	378-1717272	2.50	3.30	9.00	97.00	103.00	26.00	190.00
14776	578817	5662295	NAD27	21	SPTR15	T	1	Channel	1.00	fine grained white to grey sucrose text dolostone	378-1717272	2.50	0.10	2.50	10.00	6.00	1.50	21.00
14774	578818	5662294	NAD27	21	SPTR15	T	2	Channel	1.00	fine grained grey dolostone, small rusty patch with minz	378-1717272	7.00	0.50	6.00	18.00	46.00	13.00	47.00
14773	578819	5662293	NAD27	21	SPTR15	T	3	Channel	1.00	fine grained grey dolostone, qtz-carb veining, small rusty patches with mineralization	378-1717272	2.50	15.60	18.00	399.00	3000.00	79.00	458.00
14772	578818	5662291	NAD27	21	SPTR15	T	4	Channel	1.00	silicified dolostone for 20 cm then shaley sandstone for 70 cm then limestone.	378-1717272	2.50	2.30	16.00	68.00	97.00	21.00	55.00
14771	578821	5662295	NAD27	21	SPTR15	U	1	Channel	1.00		378-1717272	2.50	3.70	2.50	120.00	180.00	36.00	100.00
14770	578824	5662298	NAD27	21	SPTR15	U	2	Channel	1.00	fine grained grey broken rusty mineralized zone	378-1717272, 378-1817832	63.00	387.40	826.00	12300.00	17900.00	3100.00	6900.00
14769	578876	5662295	NAD27	21	SPTR15	U	3	Channel	1.00	fine grained dolostone, rubbly	378-1717272	6.00	3.40	12.00	121.00	284.00	27.00	30.00
14768	578877	5662293	NAD27	21	SPTR15	U	4	Channel	0.80	fine grained grey dolostone, minor cm qtz veins	378-1717272	2.50	0.70	2.50	25.00	69.00	14.00	26.00
14767	578828	5662291	NAD27	21	SPTR15	U	5	Channel	0.60	first 15 cm is dolostone, mineralized grey, remainder is rusty brown fault zone	378-1717272	2.50	6.70	21.00	194.00	415.00	39.00	307.00
14766	578827	5662292	NAD27	21	SPTR15	U	6	Channel	1.00	fine grained grey dolostone	378-1717272	2.50	1.30	8.00	48.00	65.00	14.00	34.00
14765	578878	5662293	NAD27	21	SPTR15	U	7	Channel	1.00	fine grained grey dolostone, minor qtz veining with sulphides	378-1717272	2.50	37.90	41.00	1203.00	530.00	210.00	461.00
14764	578832	5662294	NAD27	21	SPTR15	V	1	Channel	0.96	fine grained grey dolostone, qtz-carb veining, mineralization in dolostone, not veins	378-1717272	2.50	10.20	2.50	426.00	226.00	78.00	548.00
14763	578833	5662294	NAD27	21	SPTR15	V	2	Channel	1.00	dull grey dolostone, badly broken rubbly	378-1717272	2.50	0.40	2.50	14.00	23.00	6.00	33.00
14762	578832	5662295	NAD27	21	SPTR15	V	3	Channel	1.00	dull grey dolostone, badly broken rubbly	378-1717272	2.50	6.60	9.00	112.00	33.00	12.00	31.00
14761	578834	5662293	NAD27	21	SPTR15	V	4	Channel	1.00	fine grained grey dolostone, a few 2-3 cm qtz veins	378-1717272	2.50	0.20	2.50	14.00	20.00	4.00	14.00
14760	578836	5662293	NAD27	21	SPTR15	V	5	Channel	1.00	fine grained grey dolostone, a few 2-3 cm qtz veins	378-1717272	2.50	0.10	2.50	11.00	21.00	1.50	12.00
14759	578835	5662296	NAD27	21	SPTR15	V	6	Channel	1.00	fine grained dolostone w minor veining, starts broken then competent	378-1717272	8.00	0.10	2.50	11.00	16.00	7.00	21.00
14758	578836	5662294	NAD27	21	SPTR15	V	7	Channel	1.00	fine grained dolostone w qtz-carb alt sucrose texture	378-1717272	2.50	0.10	2.50	5.00	8.00	5.00	13.00
14757	578839	5662297	NAD27	21	SPTR15	V	8	Channel	1.00	fine grained dolostone w qtz-carb alt sucrose texture	378-1717272	2.50	0.10	10.00	5.00	14.00	7.00	13.00
14756	578839	5662296	NAD27	21	SPTR15	V	9	Channel	1.00	fine grained dolostone w qtz-carb alt sucrose texture	378-1717272	2.50	0.10	2.50	16.00	23.00	4.00	16.00
14754	578838	5662296	NAD27	21	SPTR15	V	10	Channel	1.00	fine grained dolostone w qtz-carb alt sucrose texture	378-1717272	2.50	0.90	2.50	27.00	160.00	7.00	23.00
14753	578839	5662297	NAD27	21	SPTR15	V	11	Channel	1.00	fine grained dolostone w qtz carb veining, minor cm scale qtz veins,	378-1717272	9.00	15.30	11.00	547.00	1298.00	60.00	82.00
14752	578840	5662296	NAD27	21	SPTR15	V	12	Channel	1.00	fine grained dolostone	378-1717272	2.50	0.30	2.50	16.00	26.00	7.00	17.00
14751	578843	5662297	NAD27	21	SPTR15	V	13	Channel	1.00	fine grained dolostone, qtz-carb veining 3 cm qtz vein	378-1717272	2.50	0.50	2.50	19.00	21.00	9.00	18.00
14749	578845	5662298	NAD27	21	SPTR15	W	1	Channel	1.00	fine grained grey dolostone	378-1717272	5.00	4.00	5.00	121.00	148.00	20.00	25.00
14748	578845	5662299	NAD27	21	SPTR15	W	2	Channel	1.00	fine grained grey dolostone	378-1717272	2.50	2.20	6.00	51.00	274.00	9.00	25.00
14747	578847	5662300	NAD27	21	SPTR15	W	3	Channel	1.00	fine grained grey dolostone, rusty patches with mineralization	378-1717272	2.50	4.20	2.50	153.00	112.00	32.00	60.00
14746	578848	5662299	NAD27	21	SPTR15	W	4	Channel	1.00	fine grained dolostone, minor qtz veining	378-1717272	2.50	0.30	2.50	18.00	48.00	7.00	24.00
14745	578847	5662302	NAD27	21	SPTR15	X	1	Channel	1.00	fine grained dolostone, minor qtz veining	378-1717272	2.50	0.20	2.50	8.00	26.00	6.00	40.00
14744	578848	5662305	NAD27	21	SPTR15	X	2	Channel	1.00	fine grained silicified dolostone, heavily mineralized	378-1717272	2.50	0.10	2.50	5.00	11.00	4.00	14.00



Appendix 3: Sail Pond Channel Sample List

Sample Number	UTM Easting	UTM Northing	Datum	Zone	Trench ID	Channel ID	Sample Sequence	Sample Type	Sample Length (m)	Summary Sample Description	Certificate(s) Reference	Au(ppb)	Ag(ppm)	As(ppm)	Cu(ppm)	Pb(ppm)	Sb(ppm)	Zn(ppm)
14743	578845	5662304	NAD27	21	SPTR15	X	3	Channel	1.00	fine grained silicified dolostone, heavily mineralized	378-1717272	2.50	0.10	8.00	2.50	5.00	3.00	13.00
14742	578850	5662303	NAD27	21	SPTR15	X	4	Channel	1.00	fine grained silicified dolostone, heavily mineralized	378-1717272	2.50	0.10	10.00	2.50	7.00	4.00	11.00
14741	578857	5662304	NAD27	21	SPTR15	X	5	Channel	1.00	fine grained silicified dolostone, heavily mineralized	378-1717272	2.50	0.10	2.50	10.00	10.00	5.00	14.00
14740	578854	5662302	NAD27	21	SPTR15	X	6	Channel	1.00	fine grained silicified dolostone, heavily mineralized	378-1717272	2.50	17.90	36.00	553.00	903.00	80.00	106.00
14739	578856	5662303	NAD27	21	SPTR15	Y	1	Channel	1.00	fine grained silicified dolostone with blue-black mineral and minor pyrite	378-1717272	2.50	0.20	2.50	12.00	8.00	7.00	32.00
14738	578859	5662301	NAD27	21	SPTR15	Y	2	Channel	1.00	fine grained silicified dolostone with blue-black mineral and minor pyrite	378-1717272	2.50	0.10	2.50	7.00	8.00	10.00	21.00
14737	578859	5662299	NAD27	21	SPTR15	Y	3	Channel	1.00	fine grained silicified dolostone	378-1717272	2.50	0.10	2.50	2.50	4.00	1.50	9.00
14827	578971	5662497	NAD27	21	SPTR16	AA	1	Channel	0.80	fine grained silicified grey dolostone, minor veining	378-1717357	2.50	0.10	8.00	7.00	6.00	6.00	19.00
14826	578975	5662496	NAD27	21	SPTR16	AB	1	Channel	1.10	fine grained beige-grey dolostone with 10 cm qtz vein	378-1717357	2.50	0.10	5.00	14.00	69.00	3.00	86.00
14824	578975	5662493	NAD27	21	SPTR16	AB	2	Channel	1.10	fine grained grey dolostone, minor veining	378-1717357	2.50	4.40	12.00	119.00	27.00	21.00	64.00
14823	578978	5662490	NAD27	21	SPTR16	AB	3	Channel	0.90	fine grained grey dolostone, minor veining	378-1717357	2.50	0.10	9.00	5.00	7.00	10.00	14.00
14822	578974	5662495	NAD27	21	SPTR16	AB	4	Channel	1.00	fine grained grey dolostone, 3 cm rusty patch with sulphides	378-1717357	8.00	35.80	29.00	1059.00	32.00	226.00	868.00
14821	578985	5662494	NAD27	21	SPTR16	AC	1	Channel	1.00	fine grained grey dolostone, minor cm scale qtz veins	378-1717357	2.50	0.10	5.00	6.00	13.00	3.00	23.00
14820	578983	5662498	NAD27	21	SPTR16	AC	2	Channel	1.00	fine grained grey dolostone, brown beige weathering	378-1717357	2.50	0.10	8.00	6.00	9.00	1.50	18.00
14819	578983	5662494	NAD27	21	SPTR16	AC	3	Channel	1.00	fine grained grey dolostone, brown beige weathering	378-1717357	2.50	0.10	7.00	6.00	6.00	1.50	23.00
14818	578983	5662490	NAD27	21	SPTR16	AC	4	Channel	1.00	fine grained grey dolostone, brown beige weathering	378-1717357	2.50	0.10	2.50	2.50	6.00	1.50	18.00
14817	578985	5662494	NAD27	21	SPTR16	AC	5	Channel	0.50	fine grained grey dolostone, brown beige weathering	378-1717357	2.50	0.10	9.00	2.50	5.00	1.50	19.00
14895	578839	5662498	NAD27	21	SPTR16	A	1	Channel	0.60	fine grained grey brechalcoitea, qtz carb dolostone, lots of qtz veining	378-1717357	2.50	2.30	5.00	117.00	20.00	20.00	30.00
14894	578846	5662496	NAD27	21	SPTR16	B	1	Channel	1.10	fine grained grey brechalcoitea, qtz carb dolostone, lots of qtz veining	378-1717357	5.00	13.50	15.00	153.00	4700.00	36.00	95.00
14893	578855	5662500	NAD27	21	SPTR16	C	1	Channel	2.10	fine grained qtz carb dolostone brechalcoitea	378-1717357	2.50	0.30	7.00	21.00	27.00	6.00	23.00
14892	578859	5662500	NAD27	21	SPTR16	C	2	Channel	1.00	fine grained qtz carb dolostone brechalcoitea	378-1717357	2.50	0.10	15.00	5.00	17.00	1.50	17.00
14891	578856	5662501	NAD27	21	SPTR16	D	1	Channel	0.50	fine grained grey qtz carb dolostone brechalcoitea	378-1717357	2.50	19.10	10.00	530.00	341.00	98.00	260.00
14890	578862	5662500	NAD27	21	SPTR16	E	1	Channel	0.90	fine grained grey dolostone, qtz carb, minor mineralization	378-1717357	2.50	0.50	7.00	24.00	16.00	7.00	20.00
14889	578866	5662503	NAD27	21	SPTR16	E	2	Channel	1.50	fine grained grey plain dolostone no veining	378-1717357	2.50	0.10	10.00	2.50	3.00	5.00	10.00
14888	578867	5662501	NAD27	21	SPTR16	F	1	Channel	1.00	fine grained grey plain dolostone with limestone on both sides	378-1717357	2.50	0.10	10.00	6.00	7.00	1.50	17.00
14887	578869	5662502	NAD27	21	SPTR16	F	2	Channel	1.70	fine grained grey plain dolostone with limestone on both sides	378-1717357	2.50	0.20	5.00	11.00	4.00	1.50	17.00
14886	578870	5662500	NAD27	21	SPTR16	F	3	Channel	1.00	20 cm white limestone the fine grained grey dolostone	378-1717357	2.50	0.10	9.00	9.00	8.00	3.00	12.00
14885	578874	5662501	NAD27	21	SPTR16	G	1	Channel	1.40	fine grained grey dolostone, last 10 cm is qtz vein	378-1717357	2.50	0.10	15.00	8.00	9.00	1.50	15.00
14884	578875	5662504	NAD27	21	SPTR16	G	2	Channel	1.00	silicified fine grained grey dolostone	378-1717357	2.50	0.10	8.00	11.00	15.00	4.00	33.00
14883	578877	5662503	NAD27	21	SPTR16	G	3	Channel	0.70	silicified fine grained grey dolostone	378-1717357	2.50	0.40	8.00	30.00	25.00	8.00	28.00
14882	578883	5662506	NAD27	21	SPTR16	H	1	Channel	0.40	fine grained grey dolostone, minor qtz veining	378-1717357	2.50	10.80	11.00	287.00	922.00	67.00	842.00
14881	578884	5662507	NAD27	21	SPTR16	H	2	Channel	1.10	fine grained grey qtz dolostone with small 3-4 cm zone of heavy mineralization	378-1717357, 378-1817832	89.00	467.20	1001.00	25300.00	5800.00	5600.00	4400.00
14880	578882	5662505	NAD27	21	SPTR16	H	3	Channel	1.40	fine grained qtz-carb dolostone brechalcoitea, minor qtz veining	378-1717357	2.50	2.20	14.00	73.00	249.00	10.00	27.00
14879	578884	5662503	NAD27	21	SPTR16	H	4	Channel	0.70	first 10 cm limestone, rest is qtz carb brechalcoiteated dolostone	378-1717357	2.50	0.10	2.50	2.50	6.00	1.50	12.00
14878	578883	5662503	NAD27	21	SPTR16	H	5	Channel	1.10	fine grained silicified dolostone, no veining, last 50 cm is brown rusty sandstone.	378-1717357	2.50	0.10	6.00	2.50	5.00	1.50	13.00
14877	578885	5662501	NAD27	21	SPTR16	H	6	Channel	0.70	brown rusty sandstone layered	378-1717357	2.50	0.10	2.50	29.00	31.00	12.00	77.00
14876	578890	5662501	NAD27	21	SPTR16	I	1	Channel	1.00	fine grained grey dolostone brechalcoitea, minor qtz veins	378-1717357	2.50	0.90	6.00	25.00	115.00	1.50	109.00
14874	578892	5662501	NAD27	21	SPTR16	I	2	Channel	1.00	fine grained grey qtz-carb brechalcoiteated dolostone, minor qtz veining	378-1717357	2.50	0.10	2.50	2.50	5.00	5.00	13.00
14873	578894	5662499	NAD27	21	SPTR16	I	3	Channel	1.10	fine grained grey qtz-carb brechalcoiteated dolostone, minor qtz veining	378-1717357	2.50	0.10	2.50	2.50	7.00	3.00	13.00
14872	578894	5662500	NAD27	21	SPTR16	I	4	Channel	0.40	brown rusty sandstone	378-1717357	2.50	0.20	2.50	25.00	29.00	6.00	84.00
14871	578895	5662501	NAD27	21	SPTR16	I	5	Channel	1.00	fine grained grey qtz brechalcoiteated dolostone	378-1717357	2.50	0.10	2.50	7.00	7.00	1.50	23.00
14870	578895	5662501	NAD27	21	SPTR16	I	6	Channel	1.00	fine grained grey qtz brechalcoiteated dolostone	378-1717357	2.50	0.10	2.50	5.00	46.00	5.00	17.00
14869	578898	5662501	NAD27	21	SPTR16	J	1	Channel	1.00	fine grained silicified cherty dolostone	378-1717357	2.50	0.10	9.00	7.00	5.00	1.50	12.00
14868	578899	5662503	NAD27	21	SPTR16	J	2	Channel	0.90	10 cm sandstone 40 cm dolostone, rest limestone	378-1717357	2.50	0.10	9.00	7.00	36.00	1.50	17.00
14867	578900	5662503	NAD27	21	SPTR16	K	1	Channel	1.10	fine grained silicified grey dolostone, no veining	378-1717357	2.50	0.10	8.00	2.50	7.00	1.50	11.00
14866	578902	5662502	NAD27	21	SPTR16	L	1	Channel	1.10	fine grained grey silicified dolostone	378-1717357	2.50	10.40	20.00	325.00	212.00	68.00	89.00
14865	578901	5662501	NAD27	21	SPTR16	L	2	Channel	1.00	fine grained grey silicified dolostone	378-1717357	2.50	0.10	2.50	2.50	8.00	1.50	11.00
14864	578903	5662499	NAD27	21	SPTR16	L	3	Channel	1.40	fine grained grey silicified dolostone	378-1717357	7.00	0.10	7.00	6.00	5.00	1.50	9.00
14863	578905	5662500	NAD27	21	SPTR16	L	4	Channel	1.10	plain grey dolostone, then dolostone then plain dolostone	378-1717357	2.50	0.10	8.00	9.00	4.00	3.00	14.00
14862	578906	5662501	NAD27	21	SPTR16	L	5	Channel	1.40	50 cm brown rusty sandstone, 20 cm dolostone, 30 cm sandstone, 3 cm sandstone 10dolo, 4 cm sandstone, dolostone	378-1717357	2.50	0.10	7.00	7.00	5.00	1.50	16.00



Appendix 3: Sail Pond Channel Sample List

Sample Number	UTM Easting	UTM Northing	Datum	Zone	Trench ID	Channel ID	Sample Sequence	Sample Type	Sample Length (m)	Summary Sample Description	Certificate(s) Reference	Au(ppb)	Ag(ppm)	As(ppm)	Cu(ppm)	Pb(ppm)	Sb(ppm)	Zn(ppm)
14861	578909	5662500	NAD27	21	SPTR16	M	1	Channel	0.50	fine grained grey dolostone, wedged between limestone	378-1717357	2.50	0.40	13.00	13.00	11.00	3.00	14.00
14860	578911	5662500	NAD27	21	SPTR16	N	1	Channel	0.30	fine grained grey dolostone, wedged between limestone	378-1717357	2.50	0.10	9.00	2.50	5.00	5.00	13.00
14859	578915	5662500	NAD27	21	SPTR16	O	1	Channel	0.90	white-plain layered limestone	378-1717357	2.50	0.10	5.00	2.50	1.00	1.50	2.50
14858	578915	5662499	NAD27	21	SPTR16	O	2	Channel	1.10	fine rained grey dolostone, very little veining	378-1717357	13.00	0.10	6.00	2.50	15.00	1.50	10.00
14856	578918	5662500	NAD27	21	SPTR16	P	1	Channel	0.70	40 cm dolostone rest is white-grey limestone	378-1717357	9.00	0.50	5.00	26.00	66.00	7.00	14.00
14854	578919	5662500	NAD27	21	SPTR16	Q	1	Channel	0.40	fine grained silicified dolostone with minor veining	378-1717357	2.50	0.10	20.00	11.00	23.00	1.50	58.00
14853	578928	5662501	NAD27	21	SPTR16	R	1	Channel	1.10	30 cm limestone, rest is fine grained grey dolostone	378-1717357	2.50	1.50	10.00	54.00	198.00	15.00	63.00
14852	578929	5662501	NAD27	21	SPTR16	R	2	Channel	1.20	fine grained grey dolostone wit3-5 cm qtz vein, last 30 cm limestone	378-1717357	2.50	36.50	36.00	859.00	3800.00	117.00	173.00
14851	578928	5662498	NAD27	21	SPTR16	R	3	Channel	0.70	fine grained grey dolostone 2 cm qtz vein	378-1717357	2.50	1.80	5.00	59.00	340.00	13.00	75.00
14849	578937	5662495	NAD27	21	SPTR16	S	1	Channel	0.90	limestone, white with rusty patches	378-1717357	2.50	0.10	13.00	12.00	9.00	9.00	46.00
14848	578935	5662498	NAD27	21	SPTR16	S	2	Channel	0.50	fine grained silic sandstone, rusty weatherig, wedged between limestone	378-1717357	2.50	0.20	10.00	14.00	11.00	3.00	48.00
14847	578939	5662498	NAD27	21	SPTR16	T	1	Channel	0.70	fine grained beige dolostone	378-1717357	2.50	46.30	25.00	1165.00	1455.00	294.00	4300.00
14846	578943	5662496	NAD27	21	SPTR16	U	1	Channel	0.50	small unit of dolostone wedged between limestone	378-1717357	2.50	0.10	5.00	2.50	7.00	1.50	16.00
14845	578946	5662498	NAD27	21	SPTR16	V	1	Channel	0.50	fine grained grey dolostone with multiple sets of cm qtz veins	378-1717357	2.50	0.10	9.00	14.00	22.00	5.00	37.00
14844	578948	5662494	NAD27	21	SPTR16	V	2	Channel	1.00	grey-white limestone	378-1717357	2.50	0.10	9.00	6.00	16.00	1.50	27.00
14843	578950	5662499	NAD27	21	SPTR16	W	1	Channel	1.00	grey dolostone with small 3 cm qtz vein mineralization in dolostone	378-1717357	2.50	0.40	2.50	27.00	69.00	5.00	9800.00
14842	578951	5662499	NAD27	21	SPTR16	W	2	Channel	1.00	fine grained grey dolostone, 10 cm sandstone unit and a few qtz veins	378-1717357	2.50	2.90	9.00	79.00	474.00	19.00	47.00
14841	578951	5662497	NAD27	21	SPTR16	W	3	Channel	1.10	fine grained grey dolostone, badly broken rock	378-1717357	2.50	0.10	7.00	9.00	19.00	1.50	34.00
14840	578951	5662496	NAD27	21	SPTR16	W	4	Channel	1.00	fine grained grey dolostone, badly broken rock	378-1717357	2.50	0.10	10.00	8.00	29.00	4.00	28.00
14839	578952	5662496	NAD27	21	SPTR16	W	5	Channel	0.90	fine grained grey dolostone minor veinig	378-1717357	2.50	1.70	8.00	62.00	29.00	14.00	34.00
14838	578956	5662498	NAD27	21	SPTR16	X	1	Channel	0.70	fine grained grey layered silicified sandstone	378-1717357	2.50	0.10	2.50	2.50	4.00	1.50	14.00
14837	578956	5662496	NAD27	21	SPTR16	Y	1	Channel	0.70	fine grained grey dolostone with minor qtz veins	378-1717357	2.50	0.10	10.00	14.00	37.00	4.00	29.00
14836	578957	5662494	NAD27	21	SPTR16	Y	2	Channel	0.70	fine grained grey dolostone with minor qtz veins	378-1717357	2.50	0.10	9.00	5.00	14.00	1.50	21.00
14835	578958	5662497	NAD27	21	SPTR16	Y	3	Channel	0.70	fine grained grey dolostone with minor qtz veins	378-1717357	2.50	0.10	8.00	2.50	5.00	4.00	14.00
14834	578963	5662497	NAD27	21	SPTR16	Z	1	Channel	1.00	fine grained silicified cherty sandstone, trace py and blue black specks	378-1717357	2.50	0.10	2.50	2.50	10.00	1.50	16.00
14833	578961	5662497	NAD27	21	SPTR16	Z	2	Channel	0.50	fine grained beige-grey dolostone, black blue spec (??)	378-1717357	2.50	0.20	9.00	17.00	32.00	8.00	117.00
14832	578962	5662497	NAD27	21	SPTR16	Z	3	Channel	1.10	fine grained beige-grey dolostone, black blue spec (??)	378-1717357	2.50	0.80	2.50	41.00	158.00	12.00	45.00
14831	578962	5662494	NAD27	21	SPTR16	Z	4	Channel	1.00	fine grained grey dolostone, small rusty patch with sulphides	378-1717357	2.50	4.00	12.00	103.00	511.00	25.00	301.00
14830	578962	5662493	NAD27	21	SPTR16	Z	5	Channel	0.90	fine grained grey dolostone, small rusty patch with sulphides	378-1717357	2.50	11.70	5.00	148.00	2800.00	36.00	230.00
14828	578965	5662496	NAD27	21	SPTR16	Z	6	Channel	1.40	grey fine grained dolostone small 4 cm qtz veins, 3 cm rusty mineralized patch	378-1717357	2.50	22.90	23.00	407.00	3200.00	85.00	1244.00
14731	579158	5662896	NAD27	21	SPTR17	A	1	Channel	1.00	fine grained dolostone w qtz-carb veining, cm qtz veins minor mineralization	378-1717235	2.50	20.80	26.00	485.00	1033.00	62.00	96.00
14732	579157	5662905	NAD27	21	SPTR17	A	2	Channel	1.00	fine grained dolostone, qtz carb veins, 10 cm rusty patch with qtz heavy mineralization	378-1717235, 378-1817832	22.00	209.10	569.00	7204.00	12700.00	2200.00	3600.00
14733	579155	5662894	NAD27	21	SPTR17	A	3	Channel	1.00	fine grained grey dolostone, lots of small cm scale qtz veins	378-1717235	2.50	0.20	17.00	18.00	44.00	3.00	21.00
14734	579158	5662896	NAD27	21	SPTR17	B	1	Channel	1.00	fine grained dolostone, lots of cm scale qtz veins	378-1717235	2.50	0.10	13.00	8.00	60.00	1.50	15.00
14735	579158	5662892	NAD27	21	SPTR17	B	2	Channel	1.00	fine grained dolostone, lots of cm scale qtz veins	378-1717235	2.50	0.10	10.00	2.50	9.00	4.00	14.00
14736	579160	5662893	NAD27	21	SPTR17	B	3	Channel	1.30	70% brown rusty layered sandstone, rest if fine grained grey sandstone	378-1717235	2.50	0.10	5.00	9.00	9.00	1.50	30.00
11328	578652	5661696	NAD27	21	SPTR18	A	1	Channel	1.00	fine grained grey dolostone with beige weatherin, minor veining	378-1717236	2.50	0.10	6.00	16.00	24.00	4.00	39.00
11327	578654	5661694	NAD27	21	SPTR18	A	2	Channel	1.00	fine grained grey dolostone. cm qtz eins minor sulphides	378-1717236	2.50	1.90	26.00	143.00	69.00	32.00	78.00
11326	578653	5661694	NAD27	21	SPTR18	A	3	Channel	1.00	fine grained dolostone, minor qtz veining 5 cm minz qtz vein	378-1717236	2.50	15.10	67.00	671.00	347.00	91.00	252.00
11324	578653	5661695	NAD27	21	SPTR18	A	4	Channel	1.00	fine grained dolostone, some qtz veins 2-3 cm mineralized	378-1717236	20.00	24.10	22.00	1136.00	180.00	238.00	161.00
11323	578654	5661693	NAD27	21	SPTR18	A	5	Channel	1.00	fine grained dolostone with several atz veins 1-5 cm	378-1717236, 378-1817832	19.00	49.00	34.00	2079.00	723.00	430.00	313.00
11322	578656	5661692	NAD27	21	SPTR18	A	6	Channel	1.00	fine grained grey dolostone, several 2-3 cm qtz veins with some smaller	378-1717236	2.50	0.10	6.00	10.00	1.00	4.00	12.00
11321	578656	5661692	NAD27	21	SPTR18	A	7	Channel	1.00	fine grained grey dolostone, brown weathering with minor qtz veining	378-1717236	2.50	0.10	2.50	14.00	11.00	1.50	20.00
11320	578657	5661690	NAD27	21	SPTR18	A	8	Channel	1.20	fine grained grey dolostone with 10 cm qtz vein	378-1717236	2.50	0.20	2.50	9.00	199.00	6.00	17.00
11319	578658	5661688	NAD27	21	SPTR18	A	9	Channel	1.00	fine grained grey dolostone, 1 qtz vein 20 cm wide	378-1717236	5.00	8.40	18.00	417.00	142.00	75.00	280.00
11318	578660	5661688	NAD27	21	SPTR18	A	10	Channel	1.00	fine grained grey beige weathering dolostone with minor cm scale qtz veins	378-1717236	2.50	0.70	11.00	52.00	159.00	24.00	21.00
11317	578658	5661690	NAD27	21	SPTR18	A	11	Channel	0.90	fine grained dolostone, several qtz-veins	378-1717236	2.50	0.10	10.00	17.00	9.00	7.00	15.00
11316	578662	5661692	NAD27	21	SPTR18	A	12	Channel	1.00	fine grained grey dolostone, 5 cm qtz vein heavily mineralized, a few smaller veins	378-1717236	24.00	17.40	89.00	2759.00	1041.00	900.00	353.00
11315	578659	5661686	NAD27	21	SPTR18	A	13	Channel	1.00	fine grained beige dolostone, 2x cm scale qtz veins	378-1717236	2.50	0.10	5.00	17.00	11.00	4.00	26.00
11314	578662	5661686	NAD27	21	SPTR18	A	14	Channel	1.00	fine grained dolostone with qtz-carb veining, patchy mineralization	378-1717236	6.00	2.60	7.00	158.00	82.00	35.00	45.00

Appendix 3: Sail Pond Channel Sample List

Sample Number	UTM Easting	UTM Northing	Datum	Zone	Trench ID	Channel ID	Sample Sequence	Sample Type	Sample Length (m)	Summary Sample Description	Certificate(s) Reference	Au(ppb)	Ag(ppm)	As(ppm)	Cu(ppm)	Pb(ppm)	Sb(ppm)	Zn(ppm)
11353	578642	5661697	NAD27	21	SPTR18	B	1	Channel	1.00	fine grained grey-dolostone, several sets of qtz veins some mineralized	378-1717236	2.50	0.10	2.50	6.00	3.00	4.00	12.00
11352	578642	5661697	NAD27	21	SPTR18	B	2	Channel	1.00	fine grained brown beige dolostone with qtz-carb veining	378-1717236	2.50	0.10	19.00	9.00	6.00	4.00	17.00
11351	578644	5661697	NAD27	21	SPTR18	B	3	Channel	1.00	first 50 cm s brown rusty sandstone, rest is dolostone with qtz-carb veining	378-1717236	2.50	0.10	10.00	17.00	5.00	4.00	16.00
11349	578643	5661696	NAD27	21	SPTR18	B	4	Channel	1.00	brown rusty dolostone, sandstone	378-1717236	2.50	0.10	11.00	23.00	15.00	6.00	32.00
11348	578646	5661698	NAD27	21	SPTR18	B	5	Channel	1.10	fine grained grey dolostone with minor qtz veining	378-1717236	2.50	0.10	8.00	10.00	3.00	1.50	12.00
11347	578645	5661699	NAD27	21	SPTR18	B	6	Channel	1.00	fine grained grey dolostone with minor qtz veining	378-1717236	2.50	0.10	10.00	2.50	9.00	1.50	9.00
11346	578647	5661696	NAD27	21	SPTR18	B	7	Channel	1.00	beige sucrose dolostone, no veining	378-1717236	2.50	0.10	10.00	8.00	4.00	10.00	11.00
11345	578647	5661695	NAD27	21	SPTR18	B	8	Channel	1.00	beige sucrose dolostone, no veining	378-1717236	2.50	0.10	12.00	5.00	2.00	1.50	13.00
11344	578647	5661695	NAD27	21	SPTR18	B	9	Channel	1.00	beige sucrose dolostone, no veining	378-1717236	2.50	0.10	2.50	5.00	1.00	1.50	10.00
11343	578648	5661691	NAD27	21	SPTR18	B	10	Channel	1.00	beige sucrose dolostone, no veining	378-1717236	2.50	0.10	2.50	11.00	2.00	1.50	14.00
11342	578649	5661693	NAD27	21	SPTR18	B	11	Channel	1.00	fine grained beige dolostone 4x cm qtz veins at beginning	378-1717236	2.50	0.30	5.00	33.00	34.00	10.00	28.00
11341	578649	5661691	NAD27	21	SPTR18	B	12	Channel	1.00	Fine grained grey dolostone, w qtz veins, some 2-3 cm side	378-1717236	2.50	12.60	40.00	750.00	59.00	90.00	143.00
11340	578652	5661690	NAD27	21	SPTR18	B	13	Channel	1.00	grey dolostone with several cm scale qtz veins, 1.5-7 cm mineralized	378-1717236	12.00	30.40	59.00	1524.00	631.00	311.00	258.00
11339	578650	5661690	NAD27	21	SPTR18	B	14	Channel	1.00	40 cm qtz, dolostone w many veins	378-1717236, 378-1817832	24.00	50.30	120.00	2687.00	385.00	800.00	701.00
11338	578653	5661689	NAD27	21	SPTR18	B	15	Channel	0.50	qtz vein	378-1717236, 378-1817832	26.00	38.40	73.00	855.00	682.00	355.00	180.00
11337	578654	5661688	NAD27	21	SPTR18	B	16	Channel	0.60	dolostone with several qtz veins 1-5 cm	378-1717236	2.50	2.40	2.50	99.00	42.00	21.00	25.00
11336	578654	5661688	NAD27	21	SPTR18	B	17	Channel	1.00	dolostone with several qtz veins 1-5 cm	378-1717236	2.50	0.10	10.00	11.00	21.00	4.00	19.00
11335	578654	5661687	NAD27	21	SPTR18	B	18	Channel	1.00	fine grained grey dolostone qtz-carb veining cm scale	378-1717236	13.00	32.60	80.00	1414.00	1156.00	234.00	503.00
11334	578654	5661688	NAD27	21	SPTR18	B	19	Channel	1.00	fine grained grey dolostone a few cm qtz veins	378-1717236	2.50	0.10	6.00	18.00	56.00	3.00	37.00
11333	578656	5661686	NAD27	21	SPTR18	B	20	Channel	0.90	fine grained grey dolostone a few cm qtz veins	378-1717236	5.00	0.10	5.00	12.00	15.00	7.00	28.00
11332	578656	5661687	NAD27	21	SPTR18	B	21	Channel	1.00	fine grained dolostone with qtz carb veining	378-1717236	5.00	0.10	8.00	15.00	49.00	6.00	48.00
11330	578657	5661685	NAD27	21	SPTR18	B	22	Channel	1.00	fine grained grey dolostone, minor veining	378-1717236	2.50	0.10	2.50	51.00	8.00	4.00	25.00
11329	578659	5661686	NAD27	21	SPTR18	B	23	Channel	1.00	fine grained grey dolostone w 2 cm qtz vein	378-1717236	2.50	0.10	2.50	9.00	6.00	7.00	18.00
11364	578644	5661692	NAD27	21	SPTR18	C	1	Channel	1.00	fine grained brown beige weathering dolostone, qtz carb veins ( cm scale)	378-1717236	2.50	0.10	7.00	10.00	3.00	1.50	14.00
11363	578645	5661689	NAD27	21	SPTR18	C	2	Channel	1.00	fine grained brown beige weathering dolostone, qtz carb veins ( cm scale)	378-1717236	2.50	0.60	8.00	55.00	24.00	16.00	33.00
11362	578646	5661686	NAD27	21	SPTR18	C	3	Channel	1.00	fine grained brown beige weathering dolostone, qtz carb veins ( cm scale)	378-1717236	17.00	15.40	75.00	864.00	406.00	121.00	97.00
11361	578645	5661694	NAD27	21	SPTR18	C	4	Channel	1.00	fine grained grey dolostone, qtz carb veins, 5 cm heavily mineralized qtz vein	378-1717236	7.00	33.00	75.00	1502.00	398.00	273.00	432.00
11360	578648	5661686	NAD27	21	SPTR18	C	5	Channel	0.40	fine grained dolostone with several qtz veins	378-1717236	2.50	0.40	8.00	25.00	16.00	7.00	12.00
11359	578647	5661684	NAD27	21	SPTR18	C	6	Channel	1.00	90% minz qtz veins, rest is dolo	378-1717236	15.00	32.30	56.00	1014.00	290.00	264.00	158.00
11358	578650	5661687	NAD27	21	SPTR18	C	7	Channel	1.10	Fine grained dolostone qtz-carb veins, mineralized	378-1717236	8.00	2.40	7.00	156.00	39.00	32.00	27.00
11357	578650	5661680	NAD27	21	SPTR18	C	8	Channel	1.00	fine grained grey dolostone with series of small qtz veins	378-1717236	2.50	0.20	2.50	19.00	2.00	4.00	11.00
11356	578652	5661683	NAD27	21	SPTR18	C	9	Channel	1.10	fine grained dolostone with several sets of qtz veins	378-1717236	2.50	0.10	2.50	17.00	53.00	5.00	16.00
11354	578651	5661684	NAD27	21	SPTR18	C	10	Channel	1.00	fine grained grey dolostone, several sets of qtz veins	378-1717236	2.50	4.30	9.00	194.00	64.00	26.00	34.00
11371	578644	5661686	NAD27	21	SPTR18	D	1	Channel	1.10	fine grained grey dolostone with qtz-carb veining 1-2 cm size	378-1717236	2.50	0.70	2.50	44.00	90.00	12.00	26.00
11370	578646	5661686	NAD27	21	SPTR18	D	2	Channel	1.00	60% mineralized milky white qtz veins, 40% dolostone.	378-1717236, 378-1817832	23.00	44.80	187.00	2080.00	720.00	389.00	249.00
11369	578647	5661685	NAD27	21	SPTR18	D	3	Channel	1.00	80% mineralized milky white qtz veins, 20% dolostone.	378-1717236	15.00	12.80	48.00	1258.00	194.00	313.00	402.00
11368	578647	5661685	NAD27	21	SPTR18	D	4	Channel	1.00	50% dolostone, with qtz-carb veins, 50% qtz veins 1-10 cm	378-1717236	17.00	39.10	66.00	1781.00	216.00	1200.00	247.00
11367	578648	5661683	NAD27	21	SPTR18	D	5	Channel	1.00	fine grained grey dolostone, qtz carb veins 1-5 cm	378-1717236	2.50	0.10	5.00	23.00	48.00	10.00	17.00
11366	578648	5661681	NAD27	21	SPTR18	D	6	Channel	1.00	fine grained grey dolostone, cm scale mineralized qtz veins, 15 cm of brown sandstone	378-1717236, 378-1817832	44.00	94.30	254.00	5016.00	1392.00	1400.00	708.00
11365	578650	5661688	NAD27	21	SPTR18	D	7	Channel	1.00	fine grained grey dolostone with qtz-carb veins, several sets from 1-4 cm	378-1717236	13.00	10.00	29.00	379.00	86.00	38.00	56.00

Assay Certificate

Client: Altius Resources  
Geologist: R. Smith  
Project: Sail Pond SPTR-12 (SKID #1)  
Sample: Rock



Signed by: 

DskFile: 378-1717234 - As

Results apply to samples as submitted.

DateIn: October 13, 2017

Email: info@easternanalytical.ca  
P.O. Box 187

DateOut: November 7, 2017

403 Little Bay Road Springdale, NL A0J 1T0  
Phone: 709-673-3909 / Fax: 709-673-3408

**ISO 17025**

\* Accredited Procedures

SAMPLE NUMBER	* Cu %	* Pb %	Sb %	* Ag g/t
BLANK	<0.01	<0.01	<0.01	<0.1
STD ME - 1201	1.54	0.46	---	36.6
STD CD - 1	---	---	3.54	---
12430	---	1.32	0.06	71.0
12441	---	0.83	---	45.7
12450	2.19	---	---	---
12453	---	---	0.08	76.6
12454	---	0.27	---	42.4

Au + ICP- 34 Certificate

Client: Altius Resources Inc.
Geologist: R. Smith
Project: Sail Pond
Sample: Rock

DskFile: 378-1716250

DateIn: August 15, 2017
DateOut: September 08, 2017



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403 Little Bay Road Springdale, NL A0J 1T0
Phone: 709-673-3909 / Fax: 709-673-3408

Signed by: [Signature]

Results apply to samples as submitted.

Concentrations in assay range may cause
interferences in associated elements.

Table with columns: Sample Number, \*Au ppb, Ag ppm, Al %, As ppm, Ba ppm, Be ppm, Bi ppm, Ca %, Cd ppm, Co ppm, Cr ppm, Cu ppm, Fe %, In ppm, K %, La ppm, Mg %, Mn ppm, Mo ppm, Na %, Ni ppm, P %, Pb ppm, S %, Sb ppm, Se ppm, Sn ppm, Sr ppm, Ti %, U ppm, V ppm, W ppm, Zn ppm, Zr ppm. Rows include BLANK - AU, STD OREAS 218, BLANK, STD-OREAS-923, and 11501-11536.

Au + ICP- 34 Certificate

Client: Altius Resources Inc.
Geologist: R. Smith
Project: Sail Pond
Sample: Rock

DskFile: 378-1716251

DateIn: August 15, 2017
DateOut: September 01, 2017



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403 Little Bay Road Springdale, NL A0J 1T0
Phone: 709-673-3909 / Fax: 709-673-3408

Signed by: [Signature]

Results apply to samples as submitted.

Concentrations in assay range may cause
interferences in associated elements.

Table with columns for Sample Number, Element (Au, Ag, Al, As, Ba, Be, Bi, Ca, Cd, Ce, Co, Cr, Cu, Fe, In, K, La, Mg, Mn, Mo, Na, Ni, P, Pb, S, Sb, Se, Sn, Sr, Ti, U, V, W, Zn, Zr), and units (ppb, ppm, %). Rows include BLANK - AU, STD OREAS - 202, STD OREAS 45D, 11537, 11538, 11539, 11540, 11541, 11541 DUP - C, 11542, 11543, 11544, 11545, 11546, 11547, 11548, 11549, 11550, 11551, 11551 DUP - P, 11552, 11553, 11554, 11555, 11556, 11557, 11558, 11559, 11560, 11561, 11561 DUP - C, 11562, 11563, 11564, 11565, 11566, 11567.

Au + ICP- 34 Certificate

Client: Altius Resources Inc.  
Geologist: R. Smith  
Project: Sail Pond  
Sample: Rock

DskFile: 378-1716252

DateIn: August 15, 2017  
DateOut: September 06, 2017



Email: info@easternanalytical.ca  
P.O. Box 187  
403 Little Bay Road Springdale, NL A0J 1T0  
Phone: 709-673-3909 / Fax: 709-673-3408

Signed by:

Results apply to samples as submitted.

Concentrations in assay range may cause interferences in associated elements.

Table with columns: Sample Number, Au (ppb), Ag (ppm), Al (%), As (ppm), Ba (ppm), Be (ppm), Bi (ppm), Ca (%), Cd (ppm), Ce (ppm), Co (ppm), Cr (ppm), Cu (ppm), Fe (%), In (ppm), K (%), La (ppm), Mg (%), Mn (ppm), Mo (ppm), Na (%), Ni (ppm), P (%), Pb (ppm), S (%), Sb (ppm), Se (ppm), Sn (ppm), Sr (ppm), Ti (%), U (ppm), V (ppm), W (ppm), Zn (ppm), Zr (ppm). Rows include BLANK - AU, STD OREAS 200, BLANK, STD OREAS - 45E, 11568, 11569, 11570, 11571, 11571 DUP - P, 11572, 11573, 11574, 11575, 11576, 11577, 11578, 11579, 11580, 11581, 11581 DUP - C, 11582, 11583, 11584, 11586, 11587, 11588, 11589, 11590, 11591, 11591 DUP - P, 11592, 11593, 11594, 11595, 11596, 11597, 11598, 11599, 11600, 11601, 11601 DUP - C, BLANK.

Au + ICP- 34 Certificate

Client: Altius Resources Inc.
Geologist: R. Smith
Project: Sail Pond
Sample: Rock

DskFile: 378-1716252

DateIn: August 15, 2017
DateOut: September 06, 2017



Email: info@easternanalytical.ca
P.O. Box 187
403 Little Bay Road Springdale, NL A0J 1T0
Phone: 709-673-3909 / Fax: 709-673-3408

Signed by: [Signature]

Results apply to samples as submitted.

Concentrations in assay range may cause
interferences in associated elements.

Table with columns: Sample Number, \*Au ppb, Ag ppm, Al %, As ppm, Ba ppm, Be ppm, Bi ppm, Ca %, Cd ppm, Co ppm, Cr ppm, Cu ppm, Fe %, In ppm, K %, La ppm, Mg %, Mh ppm, Mo ppm, Na %, Ni ppm, P %, Pb ppm, S %, Sb ppm, Se ppm, Sn ppm, Sr ppm, Ti %, U ppm, V ppm, W ppm, Zn ppm, Zr ppm. Rows include STD OREAS - 46D, 11601-11638, 11611 DUP - P, and 11621 DUP - C.



Au + ICP- 34 Certificate

Client: Altius Resources Inc.
Geologist: R. Smith
Project: Sail Pond Project
Sample: Rock



Signed by: [Signature]

DskFile: 378-1716388

Results apply to samples as submitted.

DateIn: August 28, 2017
DateOut: September 14, 2017

Email: info@easternanalytical.ca
P.O. Box 187
403 Little Bay Road Springdale, NL A0J 1T0
Phone: 709-673-3909 / Fax: 709-673-3408

Concentrations in assay range may cause interferences in associated elements.

Table with columns for Sample Number, Au (ppb), Ag (ppm), Al (%), As (ppm), Ba (ppm), Be (ppm), Bi (ppm), Ca (%), Cd (ppm), Ce (ppm), Co (ppm), Cr (ppm), Cu (ppm), Fe (%), In (ppm), K (%), La (ppm), Mg (%), Mn (ppm), Mo (ppm), Na (%), Ni (ppm), P (%), Pb (ppm), S (%), Sb (ppm), Se (ppm), Sn (ppm), Sr (ppm), Ti (%), U (ppm), V (ppm), W (ppm), Zn (ppm), Zr (ppm). Rows include BLANK-AU, STD-OREAS 218, STD-OREAS-45D, and various sample numbers (11639-11674).

**Au + ICP- 34 Certificate**

Client: Altius Resources Inc.  
 Geologist: R. Smith  
 Project: Sail Pond Project  
 Sample: Rock

DskFile: 378-1716388

DateIn: August 28, 2017  
 DateOut: September 14, 2017



Email: info@easternanalytical.ca  
 P.O. Box 187  
 403 Little Bay Road Springdale, NL A0J 1T0  
 Phone: 709-673-3909 / Fax: 709-673-3408

Signed by:

Results apply to samples as submitted.

Concentrations in assay range may cause interferences in associated elements.

Sample Number	* Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe %	In ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	S %	Sb ppm	Se ppm	Sn ppm	Sr ppm	Ti %	U ppm	V ppm	W ppm	Zn ppm	Zr ppm
11675	<5	<0.2	0.02	<5	<5	<0.5	<2	>20.00	<0.6	4	<2	<5	<5	0.02	<2	0.01	1	0.13	12	<1	0.01	4	<0.01	<5	0.01	<3	11	<10	141	<0.01	<1	1	<10	<5	1
11676	81	>6.0	0.44	122	32	<0.5	<2	10.23	23.8	6	3	66	3705	0.41	<2	0.27	2	6.27	77	7	0.01	9	0.02	>2200	>440	10	<10	166	0.01	6	16	<10	700	5	
11677	11	0.7	0.46	6	27	<0.5	<2	14.92	0.6	8	2	10	22	0.25	<2	0.29	3	10.00	87	1	0.01	4	<0.01	58	6	<10	<10	205	0.02	5	11	<10	20	5	
11678	<5	1.4	0.76	6	82	<0.5	<2	9.41	0.5	11	2	92	52	0.64	<2	0.46	5	3.95	84	1	0.01	12	0.01	26	10	<10	<10	110	0.03	3	14	<10	32	6	

**Au + ICP- 34 Certificate**

Client: Altius Resources Inc.  
 Geologist: R. Smith  
 Project: Sail Pond Project  
 Sample: Rock

DskFile: 378-1716389

DateIn: August 28, 2017  
 DateOut: September 14, 2017



Email: info@easternanalytical.ca  
 P.O. Box 187  
 403 Little Bay Road Springdale, NL A0J 1T0  
 Phone: 709-673-3909 / Fax: 709-673-3408

Signed by: *Robert Wright*

Results apply to samples as submitted.

Concentrations in assay range may cause interferences in associated elements.

Sample Number	* Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe %	In ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	S %	Sb ppm	Se ppm	Sn ppm	Sr ppm	Ti %	U ppm	V ppm	W ppm	Zn ppm	Zr ppm	
BLANK - AU	<5																																			
STD - OREAS 221	1077																																			
BLANK																																				
STD-LKSD-4																																				
12565	6	>6.0	0.46	110	41	<0.5	<2	12.67	16.0	4	<2	75	2551	0.32	2	0.26	1	8.87	40	1	0.01	6	0.01	30	0.19	>440	<10	138	0.01	5	7	11	439	3		
12601	<5	>6.0	0.14	175	18	<0.5	<2	13.63	18.4	4	2	168	3908	0.31	4	0.08	1	1.76	41	<1	0.01	5	0.01	68	0.28	>440	<10	150	<0.01	3	3	<10	661	2		
12602	86	>6.0	2.64	146	127	0.5	<2	11.62	29.8	9	6	71	5052	0.94	<2	1.49	3	7.74	82	1	0.02	16	0.06	27	0.78	>440	<10	121	0.11	8	52	<10	856	31		
12603	<5	1.4	0.14	<5	107	<0.5	<2	2.58	<0.5	3	<2	134	38	0.43	<2	0.08	1	1.42	52	<1	0.01	7	<0.01	749	0.03	7	<10	30	0.01	3	5	<10	15	2		
12604	9	>6.0	0.17	112	252	<0.5	<2	3.74	50.3	3	<2	108	751	0.42	<2	0.10	1	2.30	68	1	0.01	4	<0.01	368	0.14	154	<10	35	0.02	3	4	<10	>2200	4		
12605	8	>6.0	0.35	32	73	<0.5	<2	7.40	3.9	6	<2	286	796	0.51	<2	0.21	2	4.64	86	1	0.01	6	<0.01	216	0.10	195	<10	77	0.01	3	8	<10	142	5		
12722	<5	>6.0	0.53	42	45	<0.5	<2	15.51	155.5	9	3	40	642	0.35	<2	0.32	3	9.70	129	1	0.01	5	0.01	540	0.10	132	<10	218	0.02	4	10	<10	>2200	9		
12591	461	>6.0	0.05	>1000	9	<0.5	<2	0.21	848.6	<2	45	232	>10000	0.75	<2	0.03	<1	0.10	23	3	0.01	22	0.07	>2200	8.53	>440	<10	10	<0.01	2	2	<10	>2200	1		
12592	22	>6.0	0.21	107	48	<0.5	2	13.52	55.3	6	3	65	2722	0.44	4	0.12	2	8.87	96	<1	0.01	5	<0.01	>2200	0.55	>440	<10	160	0.01	4	6	<10	>2200	2		
12593	<5	>6.0	0.19	13	13	<0.5	3	12.05	7.3	6	<2	117	87	0.29	2	0.05	1	7.69	74	1	0.01	5	<0.01	>2200	0.36	66	<10	135	0.01	4	6	<10	202	2		
12594	5	>6.0	0.08	60	18	<0.5	<2	2.96	31.0	2	<2	112	2237	0.40	2	0.05	1	1.71	42	1	0.01	6	<0.01	>2200	0.31	>440	<10	29	<0.01	3	3	<10	1486	1		
12594 DUP - P	6	>6.0	0.08	111	35	<0.5	<2	3.00	32.0	3	<2	112	2255	0.34	5	0.05	1	1.71	41	1	0.01	6	<0.01	>2200	0.31	>440	<10	29	<0.01	2	3	<10	1510	1		
12804	28	>6.0	0.37	594	111	<0.5	<2	14.46	45.1	6	<2	41	6833	0.40	<2	0.22	2	9.55	84	<1	0.01	6	0.01	>2200	0.65	>440	<10	154	0.01	4	6	<10	1278	3		
12805	<5	>6.0	0.24	16	28	<0.5	6	8.29	2.6	6	<2	260	339	0.43	11	0.15	2	5.69	94	<1	0.01	12	<0.01	>2200	0.20	107	<10	87	0.01	4	5	<10	79	4		
12806	177	>6.0	0.24	>1000	41	<0.5	<2	5.21	195.9	7	3	317	>10000	1.17	<2	0.17	2	2.75	88	1	0.01	14	0.06	>2200	3.01	>440	<10	61	0.03	6	8	<10	>2200	13		
12807	139	>6.0	0.81	536	58	<0.5	6	14.28	168.4	12	3	63	7950	0.47	<2	0.58	5	8.84	153	1	0.01	8	0.02	>2200	1.07	>440	<10	174	0.04	4	19	<10	>2200	15		
12687	44	>6.0	0.14	274	19	<0.5	<2	10.39	40.9	5	<2	67	4642	0.35	8	0.09	1	6.94	94	<1	0.01	5	0.01	>2200	0.48	>440	<10	128	0.01	3	5	<10	2091	2		
12815	<5	<0.2	0.02	<5	6	<0.5	<2	>20.00	<0.5	4	<2	<5	<5	0.06	3	0.01	1	0.12	14	<1	0.01	<1	<0.01	<2	0.01	<3	11	148	0.01	<2	1	<10	<5	<1		

Assay Certificate

Client: Altius Resources Inc.  
Geologist: R. Smith  
Project: Sail Pond  
Sample: Rock

DskFile: 378-1716414

DateIn: August 15, 2017  
DateOut: September 08, 2017



Email: info@easternanalytical.ca  
P.O. Box 187

403 Little Bay Road Springdale, NL A0J 1T0  
Phone: 709-673-3909 / Fax: 709-673-3408

Signed by:

Results apply to samples as submitted.

**ISO 17025**

\* Accredited Procedures

SAMPLE NUMBER	*Cu %	*Pb %	*Zn %	*Ag g/t
BLANK	<0.01	<0.01	<0.01	<0.1
STD ME - 1201	1.62	0.47	5.10	36.5
11502	---	---	---	9.0
11521	2.28	---	---	---
11528	---	0.32	---	23.5
11529	---	---	---	13.2

**Assay Certificate**

Client: Altius Resources Inc.  
 Geologist: R. Smith  
 Project: Sail Pond  
 Sample: Rock



DskFile: 378-1716415

DateIn: August 15, 2017  
 DateOut: September 06, 2017

Signed by: *[Signature]*

Results apply to samples as submitted.

**ISO 17025**

\* Accredited Procedures

Email: info@easternanalytical.ca  
 P.O. Box 187  
 403 Little Bay Road Springdale, NL A0J 1T0  
 Phone: 709-673-3909 / Fax: 709-673-3408

SAMPLE NUMBER	*Cu %	*Pb %	*Zn %	*Ag g/t	Sb %
BLANK	<0.01	<0.01	<0.01	<0.1	<0.01
STD ME - 1201	1.62	0.47	5.10	36.5	---
STD CD - 1	---	---	---	---	3.63
11571	---	---	---	53.2	---
11571 DUP - P	---	---	---	52.7	---
11572	4.13	0.40	0.86	227.0	0.26
11573	---	0.57	---	56.5	---
11579	---	---	---	8.1	---
11580	---	0.38	---	38.8	---
11581	---	---	---	13.5	---
11581 DUP - C	---	---	---	14.3	---
11582	---	0.92	1.23	205.0	0.24
11584	4.39	4.42	2.72	154.5	1.28
11585	---	13.3	18.0	209.0	---
11586	6.83	4.37	4.09	173.8	2.07
11587	1.40	0.92	3.58	272.0	0.32
11588	---	0.99	0.88	208.0	0.20
11589	---	0.56	---	18.2	---
11590	---	0.82	---	100.1	0.10
11593	---	---	---	7.7	---
11597	---	---	0.41	---	---
11605	2.25	---	---	---	---
11608	---	1.06	0.46	203.0	0.23
11609	---	1.03	0.23	163.2	0.20
11611	---	---	---	81.3	0.06
11611 DUP - P	---	---	---	81.7	0.07
11612	---	---	---	53.2	0.08
11616	---	---	0.68	---	---
11617	---	0.41	---	41.6	---
11619	---	0.29	---	120.3	0.11
11626	1.23	1.46	3.77	282.0	0.36
11627	I.S.	I.S.	I.S.	I.S.	I.S.
11628	---	3.18	0.90	230.0	0.22
11629	---	1.11	---	126.4	0.12
11630	---	0.29	---	25.3	---
11631	---	0.41	---	26.3	---

Assay Certificate

Client: Altius Resources Inc.  
Geologist: R. Smith  
Project: Sail Pond  
Sample: Rock



DskFile: 378-1716415

DateIn: August 15, 2017

DateOut: September 06, 2017

Email: info@easternanalytical.ca  
P.O. Box 187

403 Little Bay Road Springdale, NL A0J 1T0

Phone: 709-673-3909 / Fax: 709-673-3408

Signed by: *[Signature]*

Results apply to samples as submitted.

**ISO 17025**

\* Accredited Procedures

SAMPLE NUMBER	*Cu %	*Pb %	*Zn %	*Ag g/t	Sb %
11631 DUP - P	---	0.41	---	26.5	---
11632	---	0.55	---	34.2	---
11635	1.00	1.26	1.34	326.0	0.36

**Assay Certificate**

Client: Altius Resources Inc.  
 Geologist: R. Smith  
 Project: Sail Pond  
 Sample: Rock



Signed by: *[Signature]*

DskFile: 378-1716416

Results apply to samples as submitted.

DateIn: August 15, 2017  
 DateOut: September 01, 2017

Email: info@easternanalytical.ca  
 P.O. Box 187  
 403 Little Bay Road Springdale, NL A0J 1T0  
 Phone: 709-673-3909 / Fax: 709-673-3408

**ISO 17025**

\* Accredited Procedures

SAMPLE NUMBER	*Cu %	*Pb %	*Zn %	*Ag g/t	Sb %
BLANK	<0.01	<0.01	<0.01	<0.1	<0.01
STD ME - 1201	1.62	0.47	5.10	36.5	---
STD CD - 1	---	---	---	---	3.63
11543	2.29	---	---	---	---
11544	---	2.01	0.50	103.3	0.12
11545	---	0.28	0.34	33.6	---
11546	---	0.27	0.65	80.6	0.11
11552	---	---	---	11.1	---
11553	---	---	---	20.1	---
11554	---	1.43	0.96	199.3	0.29
11555	1.94	3.90	2.27	362.0	0.59
11556	---	0.56	0.26	56.4	0.07
11564	---	---	---	8.2	---



**Assay Certificate**

Client: Altius Resources Inc.  
 Geologist: R. Smith  
 Project: Sail Pond Project  
 Sample: Rock



DskFile: 378-1716564

DateIn: August 28, 2017

DateOut: September 14, 2017

Email: info@easternanalytical.ca  
 P.O. Box 187

403 Little Bay Road Springdale, NL A0J 1T0  
 Phone: 709-673-3909 / Fax: 709-673-3408

Signed by: *[Signature]*

Results apply to samples as submitted.

**ISO 17025**

\* Accredited Procedures

SAMPLE NUMBER	*Cu %	*Pb %	*Zn %	*Ag g/t	Sb %
BLANK	<0.01	<0.01	<0.01	<0.1	<0.01
STD ME - 1201	1.54	0.46	5.05	35.1	---
STD CD - 1	---	---	---	---	3.54
11641	---	---	---	11.4	---
11642	---	---	---	17.6	---
11643	---	---	---	16.0	---
11649	---	---	---	6.1	---
11649 DUP - P	---	---	---	6.2	---
11652	---	---	---	12.6	---
11654	1.68	3.35	1.44	199.1	0.60
11656	---	---	---	17.0	---
11660	2.23	---	---	---	---
11664	---	0.95	0.68	202.0	0.12
11676	---	0.81	---	145.3	0.20

**Assay Certificate**

Client: Altius Resources Inc.  
 Geologist: Sail Pond  
 Project: Rock  
 Sample:  
 DskFile: 378-1716566 - As  
 DateIn: September 13, 2017  
 DateOut: October 11, 2017



Email: info@easternanalytical.ca  
 P.O. Box 187  
 403 Little Bay Road Springdale, NL A0J 1T0  
 Phone: 709-673-3909 / Fax: 709-673-3408

Signed by:

Results apply to samples as submitted.

**ISO 17025**

\* Accredited Procedures

SAMPLE NUMBER	* Cu %	* Pb %	* Zn %	* Ag g/t	Sb %
BLANK	<0.01	<0.01	<0.01	<0.1	<0.01
STD ME - 1201	1.53	0.47	5.16	37.0	---
STD CD - 1	---	---	---	---	3.54
11679	1.34	2.93	1.18	322.0	0.34
11680	---	---	---	7.5	---
11686	---	---	0.38	186.4	0.23
11687	---	0.27	0.99	251.0	0.33
11690	---	---	---	40.8	---
11695	---	---	0.33	23.9	---
11696	---	---	---	26.4	---
11698	---	---	---	8.3	---
11698 DUP - P	---	---	---	8.2	---
11700	2.26	---	---	---	---
11718	---	---	---	47.5	---
11718 DUP - P	---	---	---	47.2	---
11719	---	---	---	6.2	---
11724	---	12.8	16.8	198.4	---
11731	---	---	---	10.7	---
11732	---	0.44	---	29.8	---
11733	---	---	0.35	---	---
11742	---	0.34	0.54	22.9	---
11750	2.24	---	---	---	---
11762	---	0.36	---	8.4	---
11770	---	1.20	0.29	111.6	0.12
11771	---	0.69	0.70	41.6	---
11772	---	0.70	0.30	61.5	---
11775	---	12.7	17.2	193.2	---
11785	---	0.42	1.59	80.8	0.10
11788	---	---	---	41.5	---
11788 DUP - C	---	---	---	43.7	---
11789	---	0.34	0.93	74.5	0.12
11790	---	---	0.72	---	---
11791	---	---	---	9.6	---
11793	---	0.56	---	6.1	---
11796	---	0.30	---	20.0	---
11797	---	---	---	8.1	---

**Assay Certificate**

Client: Altius Resources Inc.  
 Geologist: Sail Pond  
 Project: Rock  
 Sample:

DskFile: 378-1716566 - As

DateIn: September 13, 2017  
 DateOut: October 11, 2017



Email: info@easternanalytical.ca  
 P.O. Box 187  
 403 Little Bay Road Springdale, NL A0J 1T0  
 Phone: 709-673-3909 / Fax: 709-673-3408

Signed by: 

Results apply to samples as submitted.

**ISO 17025**

\* Accredited Procedures

SAMPLE NUMBER	* Cu %	* Pb %	* Zn %	* Ag g/t	Sb %
11807	---	0.27	---	25.9	---
11808	---	0.65	0.91	120.9	0.17
11808 DUP - C	---	0.63	0.90	118.0	0.17
11809	2.23	---	---	---	---
11810	---	---	0.42	---	---
11811	---	0.25	---	51.8	---
11822	---	---	---	6.7	---
11823	---	---	---	7.4	---
11824	---	0.40	---	27.0	---
11826	---	12.8	17.1	193.9	---
11829	---	---	---	70.6	0.12
11830	1.85	1.44	1.50	372.0	0.53
11902	---	0.80	0.27	13.3	---
11903	---	---	---	18.2	---
11904	---	1.23	0.44	78.9	0.11
11907	---	---	---	20.9	---
11908	---	0.42	0.23	7.9	---
11908 DUP - C	---	0.42	0.23	8.4	---
11909	---	0.29	---	65.6	0.13
11910	---	---	0.45	215.0	0.36
11911	---	0.56	---	---	---
11915	---	1.33	---	159.5	0.19
11922	---	1.10	0.94	123.7	0.15
11923	---	0.28	---	46.3	---
11925	2.26	---	---	---	---
11928	---	1.63	1.29	249.0	0.21
11928 DUP - C	---	1.62	1.29	243.0	0.20
11929	---	---	0.67	---	---
11934	1.25	2.20	0.57	138.2	0.34
11936	---	1.00	0.24	58.9	0.09
11937	---	0.69	0.25	45.6	---
11947	---	---	---	34.3	---
11950	---	12.4	17.8	201.9	---
11953	---	---	2.89	23.2	---
12595	1.56	4.54	0.43	411.0	0.35
12596	---	1.20	17.0	163.6	0.16

Au + ICP- 34 Certificate

Client: Altius Resources Inc
Geologist: Sail Pond
Project: Rock
Sample: 378-1716566



DskFile: 378-1716566

DateIn: September 13, 2017
DateOut: October 11, 2017

Email: info@easternanalytical.ca
P.O. Box 187
403 Little Bay Road Springdale, NL A0J 1T0
Phone: 709-673-3909 / Fax: 709-673-3408

Signed by: [Signature]

Results apply to samples as submitted.

Concentrations in assay range may cause interferences in associated elements.

Table with columns for Sample Number, Element (Au, Ag, Al, As, Ba, Be, Bi, Ca, Cd, Ce, Co, Cr, Cu, Fe, In, K, La, Mg, Mn, Mo, Na, Ni, P, Pb, S, Sb, Se, Sn, Sr, Ti, U, V, W, Zn, Zr), and units (ppb, ppm, %). Rows include BLANK - AU, STD - OREAS 206, STD - OREAS 45E, and 11688 DUP - C.

Au + ICP- 34 Certificate

Client: Altius Resources Inc
Geologist: Sail Pond
Project: Rock
Sample: 378-1716566



DskFile: 378-1716566

Email: info@easternanalytical.ca
P.O. Box 187
403 Little Bay Road Springdale, NL A0J 1T0
Phone: 709-673-3909 / Fax: 709-673-3408

DateIn: September 13, 2017
DateOut: October 11, 2017

Signed by: [Signature]

Results apply to samples as submitted.

Concentrations in assay range may cause
interferences in associated elements.

Table with columns for Sample Number, Au, Ag, Al, As, Ba, Be, Bi, Ca, Cd, Ce, Co, Cr, Cu, Fe, In, K, La, Mg, Mn, Mo, Na, Ni, P, Pb, S, Sb, Se, Sn, Sr, Ti, U, V, W, Zn, Zr. Includes data for 11715-11749, STD OREAS 202, STD-OREAS-923, and DUP - C samples.

Au + ICP- 34 Certificate

Client: Altius Resources Inc
Geologist: Sail Pond
Project: Rock
Sample: 378-1716566



DskFile: 378-1716566

DateIn: September 13, 2017
DateOut: October 11, 2017

Email: info@easternanalytical.ca
P.O. Box 187
403 Little Bay Road Springdale, NL A0J 1T0
Phone: 709-673-3909 / Fax: 709-673-3408

Signed by: [Signature]

Results apply to samples as submitted.

Concentrations in assay range may cause interferences in associated elements.

Table with columns: Sample Number, \*Au ppb, Ag ppm, Al %, As ppm, Ba ppm, Be ppm, Bi ppm, Ca %, Cd ppm, Ce ppm, Co ppm, Cr ppm, Cu ppm, Fe %, In ppm, K %, La ppm, Mg %, Mn ppm, Mo ppm, Na %, Ni ppm, P %, Pb ppm, S %, Sb ppm, Se ppm, Sn ppm, Sr ppm, Ti %, U ppm, V ppm, W ppm, Zn ppm, Zr ppm. Rows include samples 11750-11789 and blanks.

Au + ICP- 34 Certificate

Client: Altius Resources Inc
Geologist: Sail Pond
Project: Rock
Sample: 378-1716566



DskFile: 378-1716566

DateIn: September 13, 2017
DateOut: October 11, 2017

Email: info@easternanalytical.ca
P.O. Box 187
403 Little Bay Road Springdale, NL A0J 1T0
Phone: 709-673-3909 / Fax: 709-673-3408

Signed by: [Signature]

Results apply to samples as submitted.

Concentrations in assay range may cause interferences in associated elements.

Table with columns for Sample Number, Au (ppb), Ag (ppm), Al (%), As (ppm), Ba (ppm), Be (ppm), Bi (ppm), Ca (%), Cd (ppm), Ce (ppm), Co (ppm), Cr (ppm), Cu (ppm), Fe (%), In (ppm), K (%), La (ppm), Mg (%), Mn (ppm), Mo (ppm), Na (%), Ni (ppm), P (%), Pb (ppm), S (%), Sb (ppm), Se (ppm), Sn (ppm), Sr (ppm), Ti (%), U (ppm), V (ppm), W (ppm), Zn (ppm), Zr (ppm). Rows include sample numbers 11791-11826 and various blanks.



Au + ICP- 34 Certificate

Client: Altius Resources Inc
Geologist: Sail Pond
Project: Rock
Sample:

DskFile: 378-1716566

DateIn: September 13, 2017
DateOut: October 11, 2017

Email: info@easternanalytical.ca
P.O. Box 187
403 Little Bay Road Springdale, NL A0J 1T0
Phone: 709-673-3909 / Fax: 709-673-3408



Signed by: [Signature]

Results apply to samples as submitted.

Concentrations in assay range may cause
interferences in associated elements.

Table with columns for Sample Number, Au (ppb), Ag (ppm), Al (%), As (ppm), Ba (ppm), Be (ppm), Bi (ppm), Ca (%), Cd (ppm), Ce (ppm), Co (ppm), Cr (ppm), Cu (ppm), Fe (%), In (ppm), K (%), La (ppm), Mg (%), Mn (ppm), Mo (ppm), Na (%), Ni (ppm), P (%), Pb (ppm), S (%), Sb (ppm), Se (ppm), Sn (ppm), Sr (ppm), Ti (%), U (ppm), V (ppm), W (ppm), Zn (ppm), Zr (ppm). Rows include 11827-11931, STD AREAS 218, and BLANK.

Au + ICP- 34 Certificate

Client: Altius Resources Inc
Geologist: Sail Pond
Project: Rock
Sample: 378-1716566



DskFile: 378-1716566

DateIn: September 13, 2017
DateOut: October 11, 2017

Email: info@easternanalytical.ca
P.O. Box 187
403 Little Bay Road Springdale, NL A0J 1T0
Phone: 709-673-3909 / Fax: 709-673-3408

Signed by: [Signature]

Results apply to samples as submitted.

Concentrations in assay range may cause interferences in associated elements.

Table with columns: Sample Number, \*Au ppb, Ag ppm, Al %, As ppm, Ba ppm, Be ppm, Bi ppm, Ca %, Cd ppm, Ce ppm, Co ppm, Cr ppm, Cu ppm, Fe %, In ppm, K %, La ppm, Mg %, Mn ppm, Mo ppm, Na %, Ni ppm, P %, Pb ppm, S %, Sb ppm, Se ppm, Sn ppm, Sr ppm, Ti %, U ppm, V ppm, W ppm, Zn ppm, Zr ppm. Rows include samples 11932-11959, 11948 DUP - C, and 11958 DUP - P.

**Assay Certificate**

Client: Altius Resources Inc.  
 Geologist: Roderick Smith  
 Project: Sail Pond Project  
 Sample: Rock



Signed by: 

DskFile: 378-1716567 - As

Results apply to samples as submitted.

DateIn: September 13, 2017

Email: info@easternanalytical.ca

DateOut: October 10, 2017

403 Little Bay Road Springdale, NL A0J 1T0

Phone: 709-673-3909 / Fax: 709-673-3408

**ISO 17025**

\* Accredited Procedures

SAMPLE NUMBER	* Cu %	* Pb %	* Zn %	* Ag g/t	Sb %
BLANK	<0.01	<0.01	<0.01	<0.1	<0.01
STD ME - 1201	1.53	0.47	5.16	37.0	---
STD CD - 1	---	---	---	---	3.50
11836	---	---	---	76.3	0.08
11839	---	---	---	58.1	---
11842	---	---	0.36	34.9	---
11843	---	---	---	20.6	---
11847	---	0.84	0.51	26.9	---
11848	---	0.81	0.56	38.8	---
11848 DUP - C	---	0.81	0.56	38.7	---
11850	2.25	---	---	---	---
11869	---	---	---	6.5	---
11873	---	---	---	17.6	---
11875	---	12.7	16.8	197.8	---
11877	---	---	---	36.2	---
11878	---	---	---	22.4	---
11878 DUP - P	---	---	---	22.5	---
11880	---	0.40	0.91	90.9	0.19
11887	---	---	---	10.3	---
11892	---	---	---	6.2	---
11893	---	0.25	0.78	135.4	0.24
11895	---	0.29	0.25	26.1	---
11899	---	0.46	---	---	---
11964	---	1.38	0.26	45.2	---
11965	---	0.69	1.36	333.0	0.31
11966	---	0.43	1.75	130.5	0.09
11967	---	0.74	0.60	74.0	0.06
11968	---	1.68	0.30	227.0	0.21
11969	---	1.49	1.18	13.3	---

Au + ICP- 34 Certificate

Client: Altius Resources Inc.
Geologist: Roderick Smith
Project: Sail Pond Project
Sample: Rock



DskFile: 378-1716567 - ICP

DateIn: September 13, 2017
DateOut: October 10, 2017

Email: info@easternanalytical.ca

P.O. Box 187
403 Little Bay Road Springdale, NL A0J 1T0
Phone: 709-673-3909 / Fax: 709-673-3408

Signed by: [Signature]

Results apply to samples as submitted.

Concentrations in assay range may cause interferences in associated elements.

Table with columns for Sample Number, Element (Au, Ag, Al, As, Ba, Be, Bi, Ca, Cd, Ce, Co, Cr, Cu, Fe, In, K, La, Mg, Mn, Mo, Na, Ni, P, Pb, S, Sb, Se, Sn, Sr, Ti, U, V, W, Zn, Zr) and units (ppb, ppm, %). Rows include BLANK - AU, STD OREAS 206, BLANK, STD-OREAS-923, and various sample numbers (11831-11866) with their respective assay results.

Au + ICP- 34 Certificate

Client: Altius Resources Inc.  
Geologist: Roderick Smith  
Project: Sail Pond Project  
Sample: Rock



DskFile: 378-1716567 - ICP

DateIn: September 13, 2017  
DateOut: October 10, 2017

Email: info@easternanalytical.ca  
P.O. Box 187  
403 Little Bay Road Springdale, NL A0J 1T0  
Phone: 709-673-3909 / Fax: 709-673-3408

Signed by:

Results apply to samples as submitted.

Concentrations in assay range may cause interferences in associated elements.

Table with columns: Sample Number, \*Au ppb, Ag ppm, Al %, As ppm, Ba ppm, Be ppm, Bi ppm, Ca %, Cd ppm, Ce ppm, Co ppm, Cr ppm, Cu ppm, Fe %, In ppm, K %, La ppm, Mg %, Mn ppm, Mo ppm, Na %, Ni ppm, P %, Pb ppm, S %, Sb ppm, Se ppm, Sn ppm, Sr ppm, Ti %, U ppm, V ppm, W ppm, Zn ppm, Zr ppm. Rows include sample numbers 11867 through 11964 and various element concentrations.

**Au + ICP- 34 Certificate**

Client: Altius Resources Inc.  
 Geologist: Roderick Smith  
 Project: Sail Pond Project  
 Sample: Rock

DskFile: 378-1716567 - ICP  
 DateIn: September 13, 2017  
 DateOut: October 10, 2017



Email: info@easternanalytical.ca  
 P.O. Box 187  
 403 Little Bay Road Springdale, NL A0J 1T0  
 Phone: 709-673-3909 / Fax: 709-673-3408

Signed by: 

Results apply to samples as submitted.

Concentrations in assay range may cause interferences in associated elements.

Sample Number	* Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe %	In ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	S %	Sb ppm	Se ppm	Sn ppm	Sr ppm	Ti %	U ppm	V ppm	W ppm	Zn ppm	Zr ppm
11965	14	>6.0	0.64	>1000	32	<0.5	<2	9.36	233.1	6	11	66	8808	0.54	<2	0.36	2	6.42	70	1	0.01	8	0.02	>2200	0.88	>440	11	<10	122	0.02	4	14	<10	>2200	7
11966	34	>6.0	0.37	391	22	<0.5	<2	12.41	279.8	7	8	31	3957	0.42	<2	0.21	2	8.38	77	1	0.01	8	0.01	>2200	0.45	>440	<10	<10	148	0.02	5	7	<10	>2200	9
11967	6	>6.0	0.30	90	19	<0.5	<2	14.41	77.2	7	5	29	2238	0.32	2	0.18	2	8.37	70	1	0.01	4	0.01	>2200	0.50	>440	17	<10	179	0.01	5	7	<10	>2200	4
11968	28	>6.0	0.24	391	17	<0.5	<2	15.70	58.5	6	8	20	7840	0.36	2	0.13	2	>10.00	61	1	0.01	<1	0.01	>2200	0.99	>440	20	<10	182	0.01	3	4	<10	>2200	4
11969	7	>6.0	0.32	<5	19	<0.5	2	14.57	131.4	9	4	20	35	0.39	<2	0.18	3	8.87	66	1	0.01	4	<0.01	>2200	0.73	18	13	150	0.01	5	6	<10	>2200	5	

**Assay Certificate**

Client: Altius Resources Inc.  
 Geologist: R. Smith  
 Project: Sail Pond Project  
 Sample: Rock



Signed by: *[Signature]*

DskFile: 378-1716584

Results apply to samples as submitted.

DateIn: August 28, 2017  
 DateOut: September 14, 2017

Email: info@easternanalytical.ca  
 P.O. Box 187  
 403 Little Bay Road Springdale, NL A0J 1T0  
 Phone: 709-673-3909 / Fax: 709-673-3408

**ISO 17025**

\* Accredited Procedures

SAMPLE NUMBER	*Cu %	*Pb %	*Zn %	*Ag g/t	Sb %
BLANK	<0.01	<0.01	<0.01	<0.1	<0.01
STD ME - 1201	1.61	0.47	4.99	36.6	---
STD CD - 1	---	---	---	---	3.54
12565	---	---	---	77.0	0.14
12601	---	---	---	85.5	0.17
12602	---	---	---	139.7	0.17
12604	---	---	0.26	22.3	---
12605	---	---	---	17.5	---
12722	---	---	0.93	13.8	---
12591	7.08	9.40	0.27	279.8	2.54
12592	---	2.51	---	108.8	0.16
12593	---	2.31	---	30.3	---
12594	---	0.95	---	72.4	0.10
12594 DUP - P	---	0.96	---	70.3	0.10
12804	---	0.78	---	148.2	0.23
12805	---	0.98	---	16.4	---
12806	3.90	0.59	0.88	508.0	0.89
12807	---	0.76	0.89	259.0	0.28
12687	---	0.24	---	95.7	0.17



Au + ICP- 34 Certificate

Client: Altius Resources
Geologist: R. Smith
Project: Sail Pond SPTR-08 (SKID #1)
Sample: Rock



DskFile: 378-1717007

DateIn: October 13, 2017
DateOut: November 13, 2017

Email: info@easternanalytical.ca
P.O. Box 187
403 Little Bay Road Springdale, NL A0J 1T0
Phone: 709-673-3909 / Fax: 709-673-3408

Signed by: [Signature]

Results apply to samples as submitted.

Concentrations in assay range may cause interferences in associated elements.

Table with columns: Sample Number, \*Au ppb, Ag ppm, Al %, As ppm, Ba ppm, Be ppm, Bi ppm, Ca %, Cd ppm, Ce ppm, Co ppm, Cr ppm, Cu ppm, Fe %, In ppm, K %, La ppm, Mg %, Mn ppm, Mo ppm, Na %, Ni ppm, P %, Pb ppm, S %, Sb ppm, Se ppm, Sn ppm, Sr ppm, Ti %, U ppm, V ppm, W ppm, Zn ppm, Zr ppm. Rows include BLANK - AU, STD OREAS 202, BLANK, STD - OREAS 923, 12302, 12303, 12304, 12305, 12306, 12307, 12308, 12309, 12310, 12311, 12312, 12312 DUP - P, 12313, 12314, 12315, 12316, 12317, 12318, 12319, 12320, 12321, 12322, 12322 DUP - C, 12323, 12324, 12325, 12326, 12327, 12328, 12329, 12330, 12331, 12332, 12332 DUP - P, 12333, 12334, 12335, 12336, 12337.

**Au + ICP- 34 Certificate**

Client: Altius Resources  
 Geologist: R. Smith  
 Project: Sail Pond SPTR-08 (SKID #1)  
 Sample: Rock



DskFile: 378-1717007

DateIn: October 13, 2017  
 DateOut: November 13, 2017

Email: info@easternanalytical.ca  
 P.O. Box 187  
 403 Little Bay Road Springdale, NL A0J 1T0  
 Phone: 709-673-3909 / Fax: 709-673-3408

Signed by:

Results apply to samples as submitted.

Concentrations in assay range may cause interferences in associated elements.

Sample Number	* Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe %	In ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	S %	Sb ppm	Se ppm	Sn ppm	Sr ppm	Ti %	U ppm	V ppm	W ppm	Zn ppm	Zr ppm
12338	<5	<0.2	0.08	8	12	<0.5	<2	12.69	1.0	5	2	48	<5	0.17	<2	0.04	1	7.67	75	1	0.02	1	<0.01	27	0.01	4	<10	96	<0.01	5	4	<10	36	1	
12339	<5	<0.2	0.08	<5	22	<0.5	<2	15.31	0.6	5	<2	18	<5	0.12	2	0.04	1	9.78	77	2	0.02	2	<0.01	3	0.01	6	14	113	<0.01	4	5	<10	11	1	
12340	<5	<0.2	0.09	11	16	<0.5	<2	16.54	<0.5	6	<2	10	<5	0.10	4	0.05	1	>10.00	65	<1	0.02	<1	<0.01	4	0.01	<3	10	139	<0.01	5	5	<10	7	1	
12341	<5	<0.2	0.20	5	28	<0.5	<2	16.76	<0.5	6	<2	11	<5	0.13	3	0.11	2	>10.00	71	<1	0.02	<1	<0.01	8	0.01	<3	<10	147	0.01	5	7	<10	9	2	
12342	8	<0.2	0.16	9	22	<0.5	<2	16.54	<0.5	6	<2	14	<5	0.11	<2	0.10	2	>10.00	75	1	0.02	3	<0.01	<2	0.01	<3	<10	154	0.01	3	5	<10	6	2	
12342 DUP - C	6	<0.2	0.17	7	23	<0.5	<2	16.25	<0.5	6	<2	19	<5	0.12	<2	0.10	2	>10.00	75	<1	0.02	1	<0.01	<2	0.02	<3	<10	155	0.01	4	6	<10	7	2	
BLANK - AU	<5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
STD GS - P6	628	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
BLANK	---	<0.2	<0.01	<5	<5	<0.5	<2	0.01	<0.5	<2	<2	<5	<5	<0.01	<2	<0.01	<1	<0.01	<1	<1	0.01	<1	<0.01	<2	0.01	<3	<10	<1	<0.01	<2	<1	<10	<5	<1	
STD - OREAS 45e	---	0.4	6.51	16	235	0.6	<2	0.07	<0.5	23	57	933	801	>10.00	<2	0.32	10	0.16	528	2	0.06	421	0.03	19	0.05	<3	<10	15	0.53	2	307	<10	51	106	
12343	<5	<0.2	0.26	<5	72	<0.5	<2	8.91	2.3	5	2	72	<5	0.29	3	0.15	1	5.79	58	<1	0.01	2	<0.01	37	0.06	<3	<10	92	0.01	4	7	<10	60	2	
12344	<5	<0.2	0.96	<5	86	<0.5	<2	12.13	<0.5	7	3	49	<5	0.46	3	0.55	2	7.58	72	2	0.02	8	0.01	21	0.08	<3	<10	132	0.02	5	19	<10	11	8	
12345	<5	<0.2	0.57	<5	53	<0.5	<2	16.24	<0.5	6	2	13	<5	0.28	<2	0.32	2	>10.00	89	1	0.02	3	<0.01	<2	0.07	<3	<10	190	0.01	4	10	<10	34	4	
12346	47	<0.2	0.59	12	49	<0.5	<2	14.03	1.0	7	3	43	<5	0.38	4	0.34	3	9.16	84	1	0.02	3	0.01	27	0.07	<3	<10	142	0.02	3	13	<10	28	5	
12347	<5	<0.2	0.38	7	40	<0.5	<2	14.64	<0.5	8	<2	66	<5	0.25	5	0.22	3	9.74	90	1	0.02	1	0.01	3	0.01	<3	<10	169	0.01	4	10	<10	10	3	
12348	<5	<0.2	0.61	<5	50	<0.5	<2	15.44	<0.5	8	<2	20	<5	0.29	6	0.34	3	9.88	94	1	0.02	7	0.01	<2	0.03	<3	<10	182	0.02	5	13	<10	10	6	
12349	<5	<0.2	0.13	5	21	<0.5	<2	16.12	0.5	6	2	11	9	0.11	3	0.07	2	>10.00	76	1	0.02	3	<0.01	6	0.01	<3	<10	165	<0.01	4	5	<10	8	1	
12350	---	2.6	1.04	162	7	0.5	13	0.27	1.8	28	159	38	>10000	6.64	3	0.06	13	1.79	101	8	0.02	21	0.05	197	7.02	7	2	0.03	5	16	<10	77	23		
12351	<5	<0.2	0.06	11	16	<0.5	<2	14.15	<0.5	5	<2	19	11	0.14	<2	0.04	1	9.03	70	1	0.02	1	<0.01	3	0.01	<3	12	136	<0.01	5	5	<10	22	1	
12352	<5	0.2	0.09	<5	20	<0.5	<2	12.10	2.4	5	<2	34	16	0.18	<2	0.05	1	7.90	61	1	0.02	<1	<0.01	<2	0.01	<3	<10	110	<0.01	4	4	<10	124	2	
12352 DUP - P	<5	<0.2	0.09	<5	18	<0.5	<2	11.85	2.0	5	<2	31	14	0.17	<2	0.05	1	7.85	60	1	0.02	<1	<0.01	<2	0.01	<3	<10	109	<0.01	4	4	<10	125	1	
12353	<5	<0.2	0.07	<5	18	<0.5	2	10.14	<0.5	5	<2	47	<5	0.20	4	0.04	1	6.67	60	1	0.02	1	<0.01	<2	0.01	<3	<10	91	<0.01	4	4	<10	6	1	

Assay Certificate

Client: Altius Resources  
Geologist: R. Smith  
Project: Sail Pond SPTR-09 (SKID #1)  
Sample: Rock



Signed by: 

Results apply to samples as submitted.

DskFile: 378-1717233 - As  
DateIn: October 13, 2017  
DateOut: November 7, 2017  
Email: info@easternanalytical.ca  
P.O. Box 187  
403 Little Bay Road Springdale, NL A0J 1T0  
Phone: 709-673-3909 / Fax: 709-673-3408

**ISO 17025**

\* Accredited Procedures

SAMPLE NUMBER	* Cu %	* Ag g/t
BLANK	<0.01	<0.1
STD ME - 1201	1.54	36.6
12997	---	10.8
12998	---	9.3
12998 DUP - P	---	9.1
13000	2.33	---

**Au + ICP- 34 Certificate**

Client: Altius Resources  
 Geologist: R. Smith  
 Project: Sail Pond SPTR-09 (SKID #1)  
 Sample: Rock



Signed by: 

DskFile: 378-1717233

DateIn: October 13, 2017  
 DateOut: November 7, 2017

Email: info@easternanalytical.ca  
 P.O. Box 187  
 403 Little Bay Road Springdale, NL A0J 1T0  
 Phone: 709-673-3909 / Fax: 709-673-3408

Results apply to samples as submitted.

Concentrations in assay range may cause interferences in associated elements.

Sample Number	* Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe %	In ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	S %	Sb ppm	Se ppm	Sn ppm	Sr ppm	Ti %	U ppm	V ppm	W ppm	Zn ppm	Zr ppm		
BLANK - AU	<5																																				
STD - OREAS 221	1086																																				
BLANK																																					
STD- OREAS 45e																																					
12301	12	4.8	0.60	14	43	<0.5	<2	14.93	1.3	13	2	20	234	0.39	<2	0.33	5	9.59	129	<1	0.02	6	0.01	8	0.05	47	<10	175	0.02	4	18	<10	44	6			
12990	<5	<0.2	1.21	6	63	<0.5	<2	15.33	<0.5	18	2	13	7	0.45	2	0.75	7	9.10	142	1	0.02	8	0.02	8	0.07	4	<10	174	0.05	4	23	<10	12	20			
12991	<5	0.2	1.10	7	42	<0.5	<2	15.54	<0.5	14	3	17	25	0.57	<2	0.65	6	8.93	143	1	0.02	9	0.01	13	0.15	9	<10	166	0.04	4	29	<10	20	11			
12992	5	2.4	0.74	13	45	<0.5	<2	15.41	0.7	12	3	20	93	0.45	<2	0.41	5	9.09	123	5	0.02	9	0.01	23	0.14	18	<10	161	0.02	5	22	<10	30	8			
12993	<5	<0.2	0.83	9	45	<0.5	<2	15.22	<0.5	16	2	19	10	0.38	<2	0.47	6	9.28	143	1	0.02	4	0.01	8	0.05	4	<10	186	0.03	5	19	<10	12	11			
12994	<5	<0.2	0.84	<5	42	<0.5	2	16.26	<0.5	17	<2	9	8	0.37	<2	0.45	7	9.84	147	<1	0.02	6	0.01	5	0.07	<3	<10	214	0.03	4	18	<10	13	15			
12995	<5	<0.2	0.06	11	<5	<0.5	<2	>20.00	<0.5	5	<2	<5	<5	0.06	5	0.03	1	0.17	21	<1	0.01	5	<0.01	<2	0.01	<3	<10	175	<0.01	3	1	<10	<5	1			
12996	<5	<0.2	0.85	5	46	<0.5	<2	15.49	<0.5	14	2	13	8	0.44	<2	0.46	6	9.91	148	1	0.02	9	0.01	3	0.03	4	<10	191	0.03	4	20	<10	13	9			
12997	6	>6.0	0.98	12	68	<0.5	<2	13.91	2.2	13	2	27	390	0.57	2	0.60	5	9.02	145	1	0.02	14	0.01	11	0.12	81	<10	164	0.04	4	27	<10	60	11			
12998	13	>6.0	0.64	11	33	<0.5	<2	14.13	2.7	12	2	32	371	0.42	<2	0.35	4	9.10	131	2	0.02	9	0.01	39	0.08	81	<10	171	0.02	4	19	<10	115	9			
12999	5	>6.0	0.63	10	33	<0.5	<2	13.96	3.0	12	2	28	358	0.43	<2	0.35	4	9.03	131	2	0.02	8	0.01	43	0.08	84	<10	170	0.02	4	19	<10	111	9			
12999 DUP - P	<5	<0.2	0.64	7	27	<0.5	<2	15.38	<0.5	12	2	15	9	0.41	2	0.35	5	9.75	147	1	0.01	8	0.01	26	0.05	3	<10	187	0.02	4	17	<10	13	6			
13000	---	2.8	1.06	97	7	0.6	11	0.26	1.3	30	158	50	>10000	6.99	<2	0.06	13	1.84	106	8	0.02	29	0.06	193	6.70	10	<10	1	5	17	<10	71	24				

Au + ICP- 34 Certificate

Client: Altius Resources  
Geologist: R. Smith  
Project: Sail Pond SPTR-12 (SKID #1)  
Sample: Rock



DskFile: 378-1717234

DateIn: October 13, 2017  
DateOut: November 7, 2017

Email: info@easternanalytical.ca  
P.O. Box 187  
403 Little Bay Road Springdale, NL A0J 1T0  
Phone: 709-673-3909 / Fax: 709-673-3408

Signed by:

Results apply to samples as submitted.

Concentrations in assay range may cause interferences in associated elements.

Table with columns for Sample Number, Au, Ag, Al, As, Ba, Be, Bi, Ca, Cd, Ce, Co, Cr, Cu, Fe, In, K, La, Mg, Mn, Mo, Na, Ni, P, Pb, S, Sb, Se, Sn, Sr, Ti, U, V, W, Zn, Zr. Includes data for BLANK - AU, STD - OREAS 221, STD - OREAS 923, 12430-12465, 12438 DUP - P, 12440-12449, 12448 DUP - C, and 12458 DUP - P.

**Au + ICP- 34 Certificate**

Client: Altius Resources  
 Geologist: R. Smith  
 Project: Sail Pond SPTR-12 (SKID #1)  
 Sample: Rock



Signed by: 

DskFile: 378-1717234

Results apply to samples as submitted.

DateIn: October 13, 2017  
 DateOut: November 7, 2017

Email: info@easternanalytical.ca  
 P.O. Box 187  
 403 Little Bay Road Springdale, NL A0J 1T0  
 Phone: 709-673-3909 / Fax: 709-673-3408

Concentrations in assay range may cause interferences in associated elements.

Sample Number	* Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe %	In ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	S %	Sb ppm	Se ppm	Sn ppm	Sr ppm	Ti %	U ppm	V ppm	W ppm	Zn ppm	Zr ppm
12466	<5	<0.2	0.04	5	10	<0.5	<2	10.91	<0.5	3	<2	52	7	0.23	2	0.02	1	7.38	72	<1	0.02	4	<0.01	16	0.01	8	<10	<10	67	<0.01	4	3	<10	14	1
12467	<5	<0.2	0.10	<5	19	<0.5	<2	11.23	<0.5	4	<2	49	9	0.23	<2	0.06	1	7.87	85	<1	0.02	2	<0.01	19	0.01	5	<10	<10	76	<0.01	4	4	<10	20	1
12468	<5	<0.2	4.32	15	268	0.8	<2	9.57	<0.5	29	8	95	18	2.12	<2	2.27	15	6.76	183	<1	0.03	30	0.05	9	0.35	<3	<10	<10	105	0.13	4	61	<10	26	33
12468 DUP - C	<5	<0.2	4.33	10	269	0.9	<2	9.67	<0.5	29	8	55	18	2.15	<2	2.29	15	6.82	183	<1	0.03	29	0.05	7	0.36	<3	<10	<10	107	0.14	4	62	<10	27	32
12469	<5	<0.2	0.57	5	46	<0.5	<2	17.30	0.6	9	2	12	6	0.33	<2	0.31	3	>10.00	112	<1	0.02	6	0.01	3	0.01	<3	<10	<10	179	0.02	4	11	<10	24	5
12470	<5	<0.2	0.36	<5	31	<0.5	<2	12.26	<0.5	6	2	30	<5	0.34	<2	0.20	2	8.04	95	<1	0.02	7	0.01	<2	0.02	<3	<10	<10	134	0.01	4	10	<10	11	4
12471	<5	<0.2	0.25	6	25	<0.5	<2	14.93	0.5	9	2	24	<5	0.29	2	0.13	3	9.36	122	<1	0.02	5	0.01	<2	0.01	3	<10	<10	161	0.01	3	8	<10	13	2

Assay Certificate

Client: Altius Resources  
Geologist: R. Smith  
Project: Sail Pond SPTR-17 (SKID #1)  
Sample: Rock



Signed by: 

DskFile: 378-1717235 - As

Results apply to samples as submitted.

DateIn: October 13, 2017

Email: info@easternanalytical.ca

DateOut: November 15, 2017

P.O. Box 187

403 Little Bay Road Springdale, NL A0J 1T0

Phone: 709-673-3909 / Fax: 709-673-3408

**ISO 17025**

\* Accredited Procedures

SAMPLE NUMBER	* Pb %	* Zn %	Sb %	* Ag g/t
BLANK	<0.01	<0.01	<0.01	<0.1
STD ME - 1201	0.46	4.94	---	36.6
STD CD - 1	---	---	3.54	---
14731	---	---	---	20.8
14732	1.27	0.36	0.22	223.0



**Au + ICP- 34 Certificate**

Client: Altius Resources  
 Geologist: R. Smith  
 Project: Sail Pond SPTR-17 (SKID #1)  
 Sample: Rock



Signed by: 

DskFile: 378-1717235

DateIn: October 13, 2017  
 DateOut: November 15, 2017

Email: info@easternanalytical.ca  
 P.O. Box 187  
 403 Little Bay Road Springdale, NL A0J 1T0  
 Phone: 709-673-3909 / Fax: 709-673-3408

Results apply to samples as submitted.

Concentrations in assay range may cause interferences in associated elements.

Sample Number	* Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe %	In ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	S %	Sb ppm	Se ppm	Sn ppm	Sr ppm	Ti %	U ppm	V ppm	W ppm	Zn ppm	Zr ppm	
BLANK - AU	<5																																			
STD - OREAS 218	538																																			
BLANK																																				
STD - OREAS 45e																																				
14731	<5	>6.0	0.59	26	40	<0.5	<2	15.58	3.2	9	<2	23	485	0.37	<2	0.35	3	9.60	69	1	0.02	10	<0.01	1033	0.07	62	<10	<10	151	0.02	3	7	<10	96	6	
14732	22	>6.0	0.53	569	30	<0.5	<2	15.64	74.1	8	2	29	7204	0.38	3	0.31	3	7.71	62	<1	0.02	6	0.01	>2200	0.82	>440	30	<10	158	0.02	4	8	<10	>2200	6	
14733	<5	0.2	0.61	17	35	<0.5	<2	14.84	0.6	9	<2	34	18	0.39	<2	0.35	3	9.56	72	<1	0.02	4	<0.01	44	0.02	3	<10	144	0.02	3	7	<10	21	6		
14734	<5	<0.2	0.74	13	49	<0.5	<2	16.86	0.6	11	<2	14	8	0.43	2	0.43	5	>10.00	68	<1	0.02	1	0.01	60	0.02	<3	<10	158	0.02	3	9	<10	15	7		
14735	<5	<0.2	0.89	10	50	<0.5	<2	18.38	<0.5	12	2	6	<5	0.48	2	0.51	5	8.09	80	<1	0.02	4	0.01	9	0.03	4	<10	169	0.03	2	11	<10	14	10		
14736	<5	<0.2	2.02	5	87	<0.5	<2	14.09	0.5	17	3	27	9	1.09	<2	1.10	9	9.07	125	<1	0.02	13	0.01	9	0.05	<3	<10	134	0.07	3	22	<10	30	17		

**Assay Certificate**

Client: Altius Resources  
 Geologist: R. Smith  
 Project: Sail Pond SPTR-18 (SKID #1)  
 Sample: Rock



Signed by: 

DskFile: 378-1717236 - As

Results apply to samples as submitted.

DateIn: October 13, 2017  
 DateOut: November 15, 2017

Email: info@easternanalytical.ca  
 P.O. Box 187  
 403 Little Bay Road Springdale, NL A0J 1T0  
 Phone: 709-673-3909 / Fax: 709-673-3408

**ISO 17025**

\* Accredited Procedures

SAMPLE NUMBER	* Cu %	* Pb %	* Zn %	* Ag g/t	Sb %
BLANK	<0.01	<0.01	<0.01	<0.1	<0.01
STD ME - 1201	1.54	0.46	4.94	36.6	---
STD CD - 1	---	---	---	---	3.54
11316	---	---	---	47.4	0.09
11319	---	---	---	8.4	---
11323	---	---	---	59.2	---
11324	---	---	---	24.1	---
11324 DUP - P	---	---	---	23.9	---
11325	---	12.8	17.1	191.2	---
11326	---	---	---	15.1	---
11335	---	---	---	32.6	---
11338	---	---	---	51.1	---
11339	---	---	---	58.7	0.08
11340	---	---	---	30.4	---
11341	---	---	---	12.6	---
11350	2.3	---	---	---	---
11359	---	---	---	32.3	---
11361	---	---	---	33.0	---
11362	---	---	---	15.4	---
11365	---	---	---	10.0	---
11366	---	---	---	106.7	0.14
11368	---	---	---	39.1	0.12
11369	---	---	---	42.8	---
11370	---	---	---	54.2	---

Au + ICP- 34 Certificate

Client: Altius Resources
Geologist: R. Smith
Project: Sail Pond SPTR-18 (SKID #1)
Sample: Rock



DskFile: 378-1717236

DateIn: October 13, 2017
DateOut: November 15, 2017

Email: info@easternanalytical.ca
P.O. Box 187
403 Little Bay Road Springdale, NL A0J 1T0
Phone: 709-673-3909 / Fax: 709-673-3408

Signed by: [Signature]

Results apply to samples as submitted.

Concentrations in assay range may cause interferences in associated elements.

Table with columns: Sample Number, Au, Ag, Al, As, Ba, Be, Bi, Ca, Cd, Ce, Co, Cr, Cu, Fe, In, K, La, Mg, Mn, Mo, Na, Ni, P, Pb, S, Sb, Se, Sn, Sr, Ti, U, V, W, Zn, Zr. Rows include BLANK - AU, STD - OREAS 218, BLANK, STD - OREAS 923, 11314, 11315, 11316, 11317, 11319, 11320, 11321, 11322, 11323, 11324, 11325, 11326, 11327, 11328, 11329, 11330, 11331, 11332, 11333, 11334, 11335, 11336, 11337, 11338, 11339, 11340, 11341, 11342, 11343, 11344, 11345, 11346, 11347, 11348, 11349.

**Au + ICP- 34 Certificate**

Client: Altius Resources  
 Geologist: R. Smith  
 Project: Sail Pond SPTR-18 (SKID #1)  
 Sample: Rock



DskFile: 378-1717236

DateIn: October 13, 2017  
 DateOut: November 15, 2017

Email: info@easternanalytical.ca  
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 Phone: 709-673-3909 / Fax: 709-673-3408

Signed by:

Results apply to samples as submitted.

Concentrations in assay range may cause interferences in associated elements.

Sample Number	* Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe %	In ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	S %	Sb ppm	Se ppm	Sn ppm	Sr ppm	Ti %	U ppm	V ppm	W ppm	Zn ppm	Zr ppm
11350	---	2.7	1.03	162	7	0.5	12	0.27	1.0	29	158	54	>10000	6.62	3	0.06	13	1.78	102	7	0.02	26	0.05	195	6.08	12	<10	<10	0.03	5	16	<10	65	22	
11351	<5	<0.2	0.77	10	42	<0.5	<2	14.13	<0.5	9	2	25	17	0.54	5	0.43	4	9.56	111	1	0.02	7	0.01	5	0.02	4	<10	<10	0.02	4	15	<10	16	5	
11352	<5	<0.2	0.88	19	51	<0.5	<2	15.05	<0.5	8	3	14	9	0.58	2	0.50	4	>10.00	132	3	0.02	11	0.01	6	0.02	4	<10	<10	0.02	4	17	<10	17	6	
BLANK - AU	<5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
STD - OREAS 206	2112	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
BLANK	---	<0.2	<0.01	<5	<5	<0.5	<2	0.01	<0.5	<2	<2	<5	<5	0.01	<2	<0.01	<1	0.01	<1	<1	0.01	<1	<0.01	<2	0.01	<3	<10	<10	<0.01	<2	<1	<10	<5	<1	
STD - OREAS 45D	---	0.2	7.95	15	175	0.7	<2	0.18	<0.5	34	28	527	399	>10.00	<2	0.42	16	0.24	465	3	0.11	221	0.04	24	0.05	<3	<10	<10	0.73	4	221	<10	49	136	
11353	<5	<0.2	0.48	<5	30	<0.5	<2	16.82	<0.5	8	2	6	6	0.38	3	0.28	3	>10.00	115	1	0.02	6	0.01	3	0.02	4	11	<10	0.02	5	22	<10	12	4	
11354	<5	4.3	0.64	9	42	<0.5	<2	12.07	1.1	6	<2	53	194	0.45	<2	0.36	2	8.20	92	2	0.01	6	<0.01	64	0.06	26	<10	0.01	4	10	<10	34	4		
11354 DUP - C	<5	4.1	0.64	9	42	<0.5	<2	11.84	1.3	7	<2	69	182	0.44	<2	0.35	2	8.34	94	2	0.01	5	0.01	62	0.06	42	<10	0.01	4	10	<10	33	4		
11355	<5	<0.2	0.04	<5	<5	<0.5	<2	>20.00	<0.5	5	<2	<5	<5	0.03	4	0.01	1	0.13	18	<1	0.02	<1	<0.01	3	0.01	<3	<10	<0.01	3	1	<10	<5	1		
11356	<5	<0.2	0.32	<5	27	<0.5	<2	12.24	<0.5	7	2	34	17	0.30	<2	0.18	2	7.61	87	1	0.02	4	0.01	53	0.03	5	<10	0.01	5	10	<10	16	3		
11357	<5	0.2	0.20	<5	23	<0.5	2	14.81	<0.5	7	<2	24	19	0.24	2	0.11	2	8.94	87	<1	0.01	5	0.01	2	0.02	4	<10	<0.01	4	7	<10	11	2		
11358	8	2.4	0.38	7	30	<0.5	<2	8.72	0.7	6	<2	67	156	0.40	4	0.22	2	5.47	71	2	0.01	6	<0.01	39	0.04	32	<10	0.01	4	7	<10	27	3		
11359	15	>6.0	0.16	56	14	<0.5	<2	1.09	4.7	<2	4	149	1014	0.41	<2	0.10	<1	0.68	38	1	0.02	5	<0.01	290	0.09	264	<10	0.01	2	5	<10	158	2		
11360	<5	0.4	0.27	8	24	<0.5	<2	10.69	<0.5	5	<2	49	25	0.26	<2	0.16	2	7.26	79	<1	0.02	5	<0.01	16	0.02	7	<10	0.01	4	9	<10	12	2		
11361	7	>6.0	0.42	75	29	<0.5	<2	11.04	10.9	6	3	49	1502	0.35	<2	0.24	2	7.12	73	<1	0.02	7	0.01	398	0.15	273	<10	0.01	4	10	<10	432	4		
11362	17	>6.0	0.46	75	31	<0.5	<2	13.62	4.3	8	2	32	864	0.39	<2	0.25	2	9.66	85	1	0.02	7	0.01	406	0.07	121	<10	0.02	3	12	<10	97	5		
11363	<5	0.6	0.65	8	37	<0.5	<2	16.09	1.1	9	2	14	55	0.49	2	0.35	3	>10.00	91	1	0.02	7	0.01	24	0.05	16	<10	0.03	5	17	<10	33	9		
11364	<5	<0.2	0.51	7	33	<0.5	<2	16.05	0.6	7	<2	14	10	0.28	3	0.28	3	>10.00	87	<1	0.02	3	0.01	3	0.03	<3	<10	0.01	4	12	<10	14	3		
11364 DUP - P	<5	<0.2	0.52	10	34	<0.5	<2	16.67	0.8	7	<2	15	11	0.29	3	0.29	3	>10.00	89	1	0.02	2	0.01	5	0.03	<3	<10	0.01	5	12	<10	14	3		
11365	13	>6.0	0.70	29	44	<0.5	<2	10.15	2.3	6	2	54	379	0.51	2	0.40	2	6.94	82	1	0.02	8	<0.01	86	0.09	38	<10	0.02	4	11	<10	56	5		
11366	44	>6.0	0.56	254	37	<0.5	<2	12.94	26.1	7	3	49	5016	0.43	<2	0.32	2	7.83	83	1	0.02	5	0.01	1392	0.48	>440	<10	0.02	4	12	<10	708	5		
11367	<5	<0.2	0.28	5	21	<0.5	<2	12.23	<0.5	6	2	38	23	0.28	3	0.16	2	6.87	67	<1	0.02	11	<0.01	48	0.02	10	<10	0.01	3	7	<10	17	2		
11368	17	>6.0	0.29	66	23	<0.5	<2	11.60	9.4	5	3	42	1781	0.27	<2	0.17	1	7.53	83	<1	0.02	5	0.01	216	0.16	>440	<10	0.01	4	7	<10	247	2		
11369	15	>6.0	0.20	48	15	<0.5	<2	1.80	9.7	2	6	115	1258	0.34	2	0.12	<1	1.08	30	1	0.02	7	<0.01	194	0.14	313	<10	0.01	2	5	<10	402	2		
11370	23	>6.0	0.22	187	30	<0.5	<2	5.82	8.6	4	3	70	2080	0.37	2	0.12	1	3.79	58	<1	0.02	6	0.01	720	0.17	389	<10	0.01	4	7	<10	249	2		
11371	<5	0.7	0.49	<5	35	<0.5	<2	14.61	0.8	7	2	26	44	0.33	<2	0.28	2	9.09	80	<1	0.02	4	<0.01	90	0.03	12	<10	0.01	5	12	<10	26	4		

**Assay Certificate**

Client: Altius Resources Inc.  
 Geologist: R. Smith  
 Project: Sail Pond - Skid 2 SPTR-15  
 Sample: Rock



Signed by: 

Results apply to samples as submitted.

DskFile: 378-1717272  
 Email: info@easternanalytical.ca  
 P.O. Box 187

DateIn: October 13, 2017  
 DateOut: November 14, 2017

403 Little Bay Road Springdale, NL A0J 1T0  
 Phone: 709-673-3909 / Fax: 709-673-3408

**ISO 17025**

\* Accredited Procedures

SAMPLE NUMBER	* Cu %	* Pb %	* Zn %	* Ag g/t	Sb %
BLANK	<0.01	<0.01	<0.01	<0.1	<0.01
STD ME - 1201	1.56	0.47	5.01	39.0	---
STD CD - 1	---	---	---	---	3.52
14740	---	---	---	17.9	---
14750	2.25	---	---	---	---
14753	---	---	---	15.3	---
14762	---	---	---	6.6	---
14764	---	---	---	10.2	---
14765	---	---	---	37.9	---
14767	---	---	---	6.7	---
14770	1.23	1.79	0.69	390.0	0.31
14773	---	0.30	---	15.6	---
14775	---	13.5	16.9	194.0	---
14778	---	---	---	8.6	---
14780	---	---	0.43	62.9	---
14786	---	---	---	67.8	0.08
14786 DUP - P	---	---	---	67.2	0.08
14799	---	---	---	---	---
14800	2.26	---	---	---	---
14804	---	---	---	38.0	---

Au + ICP- 34 Certificate

Client: Altius Resources Inc.  
Geologist: R. Smith  
Project: Sail Pond - Skid 2 SPTR-15  
Sample: Rock



DskFile: 378-1717272

DateIn: October 13, 2017  
DateOut: November 14, 2017

Email: info@easternanalytical.ca  
P.O. Box 187  
403 Little Bay Road Springdale, NL A0J 1T0  
Phone: 709-673-3909 / Fax: 709-673-3408

Signed by:

Results apply to samples as submitted.

Concentrations in assay range may cause interferences in associated elements.

Table with columns: Sample Number, Au (ppb), Ag (ppm), Al (%), As (ppm), Ba (ppm), Be (ppm), Bi (ppm), Ca (%), Cd (ppm), Ce (ppm), Co (ppm), Cr (ppm), Cu (ppm), Fe (%), In (ppm), K (%), La (ppm), Mg (%), Mn (ppm), Mo (ppm), Na (%), Ni (ppm), P (%), Pb (ppm), S (%), Sb (ppm), Se (ppm), Sh (ppm), Sr (ppm), Ti (%), U (ppm), V (ppm), W (ppm), Zn (ppm), Zr (ppm). Rows include BLANK-AU, STD-OREAS 221, BLANK, STD-OREAS-45E, 14737, 14738, 14739, 14740, 14741, 14742, 14743, 14744, 14745, 14746, 14746 DUP - P, 14747, 14748, 14749, 14750, 14751, 14752, 14753, 14754, 14755, 14756, 14756 DUP - C, 14757, 14758, 14759, 14760, 14761, 14762, 14763, 14764, 14765, 14766, 14766 DUP - P, 14767, 14768, 14769, 14770, 14771, 14772.

Au + ICP- 34 Certificate

Client: Altius Resources Inc.  
Geologist: R. Smith  
Project: Sail Pond - Skid 2 SPTR-15  
Sample: Rock



DskFile: 378-1717272

Email: info@easternanalytical.ca  
P.O. Box 187  
403 Little Bay Road Springdale, NL A0J 1T0  
Phone: 709-673-3909 / Fax: 709-673-3408

Signed by:

Results apply to samples as submitted.

DateIn: October 13, 2017  
DateOut: November 14, 2017

Concentrations in assay range may cause interferences in associated elements.

Table with columns for Sample Number, Element (Au, Ag, Al, As, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, In, K, La, Mg, Mn, Mo, Na, Ni, P, Pb, S, Sb, Se, Sh, Sr, Ti, U, V, W, Zn, Zr), and units. Data rows include 14773-14799 and standards BLANK, STD OREAS 202, and DUP - P.



**Au + ICP- 34 Certificate**

Client: Altius Resources Inc.  
 Geologist: R. Smith  
 Project: Sail Pond - Skid 2 SPTR-15  
 Sample: Rock



Signed by: 

DskFile: 378-1717272

Email: info@easternanalytical.ca  
 P.O. Box 187  
 403 Little Bay Road Springdale, NL A0J 1T0  
 Phone: 709-673-3909 / Fax: 709-673-3408

Results apply to samples as submitted.  
 Concentrations in assay range may cause interferences in associated elements.

DateIn: October 13, 2017  
 DateOut: November 14, 2017

Sample Number	* Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe %	In ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	S %	Sb ppm	Se ppm	Sh ppm	Sr ppm	Ti %	U ppm	V ppm	W ppm	Zn ppm	Zr ppm
BLANK	---	<0.2	<0.01	<5	<5	<0.5	<2	0.01	<0.5	<2	<2	<5	<5	<0.01	<2	<0.01	<1	<0.01	<1	<1	0.01	<1	<0.01	<2	<3	<10	<10	<1	<0.01	<2	<1	<10	<5	<1	
STD-OREAS-45D	---	0.2	7.76	15	172	0.8	<2	0.19	0.8	35	28	523	390	>10.00	<2	0.42	16	0.25	469	3	0.10	223	0.04	24	0.05	<3	<10	<10	28	0.77	3	235	<10	49	136
14808	<5	<0.2	0.35	<5	18	<0.5	3	12.39	<0.5	8	<2	43	<5	0.33	<2	0.21	2	7.90	49	1	0.01	4	0.01	28	0.02	<3	<10	<10	128	0.01	4	5	<10	5	4
14809	<5	<0.2	0.40	9	20	<0.5	<2	13.69	<0.5	7	<2	29	<5	0.27	<2	0.24	2	9.27	48	1	0.01	5	0.01	11	0.02	<3	<10	<10	141	0.01	3	5	<10	<5	4
14810	<5	<0.2	0.23	<5	17	<0.5	2	>20.00	<0.5	5	<2	9	<5	0.10	<2	0.18	1	0.95	8	1	<0.01	1	<0.01	10	0.02	<3	<10	<10	284	0.01	4	2	<10	<5	3
14811	<5	<0.2	0.38	<5	28	<0.5	2	16.30	<0.5	8	<2	47	<5	0.26	<2	0.25	3	>10.00	42	1	0.01	2	<0.01	4	0.03	<3	<10	<10	177	0.01	4	5	<10	10	4
14812	<5	<0.2	0.41	5	19	<0.5	3	16.30	<0.5	8	<2	20	<5	0.25	3	0.25	2	>10.00	35	1	0.01	6	<0.01	4	0.03	<3	<10	<10	175	0.01	4	5	<10	<5	4
14813	<5	<0.2	0.22	<5	15	<0.5	2	16.00	<0.5	6	<2	16	<5	0.20	<2	0.14	2	9.75	32	1	0.01	1	<0.01	<2	0.03	<3	<10	<10	168	0.01	3	4	<10	<5	2
14814	<5	1.1	0.54	11	30	<0.5	4	14.89	1.0	7	<2	33	33	0.29	<2	0.33	2	9.39	42	1	0.01	2	<0.01	44	0.04	10	<10	150	0.01	4	6	<10	41	4	
14815	<5	<0.2	0.57	<5	21	<0.5	4	13.07	<0.5	9	<2	34	<5	0.34	<2	0.34	3	5.74	33	1	0.01	4	0.01	<2	0.03	10	<10	134	0.01	4	7	<10	<5	3	
14816	<5	0.2	0.33	<5	15	<0.5	2	15.99	<0.5	7	<2	12	<5	0.28	<2	0.20	2	>10.00	25	<1	0.01	1	<0.01	2	0.03	<3	<10	<10	149	0.01	5	5	<10	<5	2
14816 DUP - C	<5	<0.2	0.34	<5	15	<0.5	2	16.04	<0.5	7	<2	11	<5	0.27	<2	0.21	2	>10.00	25	1	0.01	1	<0.01	<2	0.03	<3	<10	<10	150	0.01	4	5	<10	<5	2

**Assay Certificate**

Client: Altius Resources Inc.  
 Geologist: R. Smith  
 Project: Sail Pond - Skid 2 SPTR-10  
 Sample: Rock



Signed by: 

DskFile: 378-1717273 - As

Results apply to samples as submitted.

DateIn: October 13, 2017

Email: info@easternanalytical.ca  
 P.O. Box 187

DateOut: November 13, 2017

403 Little Bay Road Springdale, NL A0J 1T0  
 Phone: 709-673-3909 / Fax: 709-673-3408

**ISO 17025**

\* Accredited Procedures

SAMPLE NUMBER	* Cu %	* Pb %	* Zn %	* Ag g/t	Sb %
BLANK	<0.01	<0.01	<0.01	<0.1	<0.01
STD ME - 1201	1.56	0.45	5.06	37.7	---
STD CD - 1	---	---	---	---	3.59
12918	---	---	---	12.9	---
12919	---	---	---	6.4	---
12925	2.26	---	---	---	---
12927	---	---	---	9.7	---
12935	---	---	---	50.7	---
12941	---	0.42	---	17.4	---
12942	2.66	6.80	0.27	380.0	0.32
12943	---	---	---	7.3	---
12944	---	---	---	73.6	---
12950	---	12.3	17.1	197.5	---
12951	---	0.87	---	48.1	---
12952	---	0.89	---	60.8	---
12962	---	---	---	20.1	---
12975	---	12.3	17.0	197.8	---

Au + ICP- 34 Certificate

Client: Altius Resources Inc.  
Geologist: R. Smith  
Project: Sail Pond - Skid 2 SPTR-10  
Sample: Rock



DskFile: 378-1717273

DateIn: October 13, 2017  
DateOut: November 13, 2017

Email: info@easternanalytical.ca

P.O. Box 187  
403 Little Bay Road Springdale, NL A0J 1T0  
Phone: 709-673-3909 / Fax: 709-673-3408

Signed by:

Results apply to samples as submitted.

Concentrations in assay range may cause interferences in associated elements.

Table with columns: Sample Number, Au (ppb), Ag (ppm), Al (%), As (ppm), Ba (ppm), Be (ppm), Bi (ppm), Ca (%), Cd (ppm), Ce (ppm), Co (ppm), Cr (ppm), Cu (ppm), Fe (%), In (ppm), K (%), La (ppm), Mg (%), Mn (ppm), Mo (ppm), Na (%), Ni (ppm), P (%), Pb (ppm), S (%), Sb (ppm), Se (ppm), Sn (ppm), Sr (ppm), Ti (%), U (ppm), V (ppm), W (ppm), Zn (ppm), Zr (ppm). Rows include BLANK - AU, STD - OREAS 206, BLANK, STD-OREAS-45E, and various sample IDs like 12906, 12907, etc.

Au + ICP- 34 Certificate

Client: Altius Resources Inc.  
Geologist: R. Smith  
Project: Sail Pond - Skid 2 SPTR-10  
Sample: Rock

DskFile: 378-1717273

DateIn: October 13, 2017  
DateOut: November 13, 2017



Email: info@easternanalytical.ca  
P.O. Box 187  
403 Little Bay Road Springdale, NL A0J 1T0  
Phone: 709-673-3909 / Fax: 709-673-3408

Signed by:

Results apply to samples as submitted.

Concentrations in assay range may cause interferences in associated elements.

Table with columns for Sample Number, Au (ppb), Ag, Al, As, Ba, Be, Bi, Ca, Cd, Ce, Co, Cr, Cu, Fe, In, K, La, Mg, Mn, Mo, Na, Ni, P, Pb, S, Sb, Se, Sn, Sr, Ti, U, V, W, Zn, Zr (ppm). Includes data for samples 12942-12976 and STD-OREAS series.

**Au + ICP- 34 Certificate**

Client: Altius Resources Inc.  
 Geologist: R. Smith  
 Project: Sail Pond - Skid 2 SPTR-10  
 Sample: Rock



Signed by: 

DskFile: 378-1717273

Email: info@easternanalytical.ca

Results apply to samples as submitted.

DateIn: October 13, 2017

Concentrations in assay range may cause

DateOut: November 13, 2017

interferences in associated elements.

P.O. Box 187

403 Little Bay Road Springdale, NL A0J 1T0

Phone: 709-673-3909 / Fax: 709-673-3408

Sample Number	* Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe %	In ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	S %	Sb ppm	Se ppm	Sn ppm	Sr ppm	Ti %	U ppm	V ppm	W ppm	Zn ppm	Zr ppm	
12977	<5	<0.2	0.03	8	10	<0.5	<2	16.31	<0.5	5	<2	23	<5	0.14	<2	0.02	1	>10.00	88	<1	0.02	5	<0.01	10	0.01	3	10	<10	123	<0.01	4	3	<10	12	1	
12978	<5	<0.2	0.06	5	11	<0.5	<2	14.65	0.5	3	2	43	7	0.20	4	0.03	1	9.88	109	1	0.02	6	<0.01	11	0.01	<3	<10	127	<0.01	4	4	<10	16	1		
12979	<5	<0.2	0.03	<5	7	<0.5	2	15.93	0.6	5	<2	22	8	0.15	2	0.02	1	>10.00	102	<1	0.02	4	<0.01	9	0.01	4	<10	121	<0.01	4	4	<10	21	1		
12980	<5	0.4	0.05	<5	9	<0.5	<2	16.36	<0.5	5	<2	21	10	0.14	<2	0.03	1	>10.00	99	<1	0.02	7	<0.01	25	0.02	8	<10	149	<0.01	4	4	<10	26	1		
12981	<5	0.3	0.02	<5	9	<0.5	3	16.19	<0.5	5	<2	66	10	0.15	4	0.01	1	>10.00	105	1	0.03	4	<0.01	25	0.02	6	<10	118	<0.01	5	4	<10	24	1		
12982	<5	0.4	0.03	<5	7	<0.5	2	15.74	0.6	5	2	25	17	0.18	2	0.02	1	>10.00	111	1	0.03	3	<0.01	22	0.03	3	<10	139	<0.01	4	4	<10	26	1		
12983	<5	1.2	0.12	<5	14	<0.5	<2	14.71	4.3	4	<2	44	83	0.24	<2	0.07	1	>10.00	125	1	0.02	3	<0.01	90	0.03	10	<10	125	<0.01	4	6	<10	83	1		
12984	<5	>6.0	0.17	12	15	<0.5	<2	10.35	3.2	4	<2	127	401	0.36	<2	0.10	1	7.07	111	<1	0.02	4	<0.01	328	0.02	12	<10	106	0.01	4	7	<10	102	1		
12985	<5	2.8	0.19	5	16	<0.5	<2	11.33	4.0	4	2	106	216	0.33	3	0.11	1	7.46	115	<1	0.02	1	<0.01	127	0.02	12	<10	111	0.01	3	8	<10	114	1		
12986	<5	2.0	0.06	<5	9	<0.5	<2	9.40	1.6	4	<2	238	29	0.27	2	0.03	1	5.77	74	1	0.02	3	<0.01	81	0.02	8	<10	75	<0.01	3	4	<10	65	1		
12986 DUP - C	<5	2.0	0.06	<5	8	<0.5	2	9.37	1.9	3	<2	253	31	0.28	<2	0.04	1	5.72	71	<1	0.02	5	<0.01	78	0.02	9	<10	74	<0.01	3	4	<10	65	1		
BLANK - AU	<5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
STD OREAS 221	1042	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
BLANK	---	<0.2	<0.01	<5	<5	<0.5	<2	0.01	<0.5	<2	<2	<5	<5	0.01	<2	<0.01	<1	<0.01	1	<1	0.01	<1	<0.01	<2	0.01	<3	<10	<1	<0.01	<2	<1	<10	<5	<1		
STD-OREAS-45E	---	0.4	6.39	17	239	0.6	<2	0.07	<0.5	23	53	940	800	>10.00	<2	0.32	10	0.16	526	2	0.06	425	0.03	20	0.05	<3	<10	15	0.53	3	307	<10	50	106		
12987	<5	0.6	0.04	<5	8	<0.5	2	15.96	0.9	4	<2	29	10	0.13	5	0.02	1	9.96	93	<1	0.02	<1	<0.01	19	0.03	<3	<10	10	127	<0.01	4	3	<10	23	1	
12988	<5	0.2	0.03	<5	8	<0.5	2	16.96	<0.5	4	<2	22	12	0.14	<2	0.02	1	>10.00	96	<1	0.03	1	<0.01	16	0.03	7	<10	136	<0.01	5	4	<10	22	1		
12989	<5	0.2	0.05	<5	7	<0.5	<2	16.63	0.6	5	<2	44	8	0.13	2	0.03	1	>10.00	90	<1	0.03	3	<0.01	14	0.03	4	<10	124	<0.01	4	3	<10	21	1		

Assay Certificate

Client: Altius Resources  
Geologist: R. Smith  
Project: Sail Pond SPTR-08 (SKID #1)  
Sample: Rock



DskFile: 378-1717326

DateIn: October 13, 2017

DateOut: November 13, 2017

Email: info@easternanalytical.ca  
P.O. Box 187

403 Little Bay Road Springdale, NL A0J 1T0  
Phone: 709-673-3909 / Fax: 709-673-3408

Signed by: 

Results apply to samples as submitted.

**ISO 17025**

\* Accredited Procedures

SAMPLE NUMBER	* Cu %	* Pb %	* Zn %	* Ag g/t
BLANK	<0.01	<0.01	<0.01	<0.1
STD ME - 1201	1.54	0.47	4.91	35.0
12325	--	13.0	17.2	193.0
12336	--	0.81	--	13.0
12350	2.28	--	--	--

**Assay Certificate**

Client: Altius Resources Inc.  
 Geologist: R. Smith  
 Project: Sail Pond (SPTR-06 / Skid#4)  
 Sample: Rock



Signed by: *John Wright*

DskFile: 378-1717352 - As

Results apply to samples as submitted.

DateIn: November 1, 2017

DateOut: December 1, 2017

Email: info@easternanalytical.ca  
 P.O. Box 187

403 Little Bay Road Springdale, NL A0J 1T0  
 Phone: 709-673-3909 / Fax: 709-673-3408

**ISO 17025**

\* Accredited Procedures

SAMPLE NUMBER	* Cu %	* Pb %	* Zn %	* Ag g/t	Sb %
BLANK	<0.01	<0.01	<0.01	<0.1	<0.01
STD ME - 1201	1.62	0.46	5.00	40.0	---
STD CD - 1	---	---	---	---	3.54
11975	2.31	---	---	---	---
11987	---	3.44	---	41.4	---
11988	---	2.59	---	38.3	---
11989	---	2.06	---	25.9	---
11989 DUP - C	---	2.08	---	25.9	---
12000	---	12.4	17.2	196.0	---
12853	---	---	0.40	37.5	---
12854	---	1.79	0.38	67.7	---
12856	---	1.83	0.69	107.0	0.11
12857	---	0.75	0.73	30.0	---
12862	---	1.00	---	25.8	---
12863	---	---	---	8.6	---
12864	---	---	---	8.4	---
12868	---	0.43	0.35	57.8	---
12873	---	---	---	21.8	---
12875	2.28	---	---	---	---
12876	---	0.27	0.43	30.9	---
12879	---	0.44	0.24	48.4	---
12879 DUP - C	---	0.45	0.25	48.6	---
12890	---	0.34	---	12.8	---
12891	---	---	---	9.5	---
12897	---	0.28	---	---	---
12900	---	12.8	17.7	206.0	---







**Au + ICP- 34 Certificate**

Client: Altius Resources Inc.  
 Geologist: R. Smith  
 Project: Sail Pond (SPTR-06 / Skid#4)  
 Sample: Rock



Signed by: *R. Smith*

DskFile: 378-1717352

Results apply to samples as submitted.

Email: info@easternanalytical.ca  
 P.O. Box 187  
 403 Little Bay Road Springdale, NL A0J 1T0  
 Phone: 709-673-3909 / Fax: 709-673-3408

DateIn: November 1, 2017  
 DateOut: December 1, 2017

Concentrations in assay range may cause interferences in associated elements.

Sample Number	* Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe %	In ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	S %	Sb ppm	Se ppm	Sn ppm	Sr ppm	Ti %	U ppm	V ppm	W ppm	Zn ppm	Zr ppm	
12891	<5	5.9	0.45	25	28	<0.5	<2	14.39	7.5	7	2	25	288	0.35	4	0.27	3	9.66	89	1	0.01	7	<0.01	471	0.03	35	<10	10	170	0.02	4	7	<10	278	6	
12892	<5	<0.2	0.56	<5	32	<0.5	<2	14.71	1.9	9	<2	14	6	0.31	<2	0.35	3	9.16	76	<1	0.01	4	<0.01	24	0.02	<3	<10	180	0.02	4	9	<10	34	7		
12893	7	<0.2	0.95	<5	45	<0.5	<2	15.74	0.9	10	2	11	6	0.39	4	0.57	4	>10.00	89	<1	0.01	7	<0.01	21	0.03	<3	<10	12	182	0.04	4	14	<10	21	10	
12894	<5	<0.2	0.31	6	23	<0.5	<2	15.04	0.7	6	<2	15	<5	0.29	3	0.20	3	>10.00	69	<1	0.01	6	<0.01	4	0.01	<3	<10	170	0.01	4	8	<10	13	4		
12895	<5	<0.2	1.21	7	62	<0.5	<2	14.69	0.5	13	2	20	8	0.62	5	0.73	5	9.69	103	1	0.02	7	0.01	13	0.02	<3	<10	152	0.04	5	15	<10	48	12		
12896	<5	<0.2	1.46	6	67	<0.5	<2	12.73	2.1	15	3	33	24	0.75	2	0.84	6	8.64	139	<1	0.02	10	0.02	65	0.02	5	<10	163	0.05	6	20	<10	99	17		
12897	<5	5.2	0.32	22	27	<0.5	<2	13.60	3.3	8	<2	40	251	0.30	4	0.23	2	8.43	64	<1	0.01	3	0.01	2078	0.06	31	<10	158	0.01	4	5	<10	134	4		
12898	<5	<0.2	0.81	8	48	<0.5	<2	14.50	0.7	10	<2	16	10	0.44	<2	0.50	4	9.56	88	<1	0.01	5	0.01	26	0.02	<3	<10	161	0.03	5	13	<10	37	9		
12899	<5	<0.2	0.61	15	58	<0.5	<2	15.20	<0.5	9	2	9	<5	0.35	<2	0.39	4	>10.00	71	<1	0.01	4	0.01	9	0.02	<3	<10	170	0.02	4	9	<10	20	7		
12899 DUP - C	<5	<0.2	0.59	10	57	<0.5	<2	15.43	<0.5	9	<2	11	<5	0.35	<2	0.38	4	>10.00	72	1	0.01	4	0.01	26	0.02	<3	<10	169	0.02	4	8	<10	42	7		
BLANK - AU	<5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
STD	---	<0.2	<0.01	<5	<5	<0.5	<2	0.01	<0.5	<2	<2	<5	<5	<0.01	<2	<0.01	<1	<0.01	<1	<1	0.01	<1	<0.01	<2	0.01	<3	<10	<1	<0.01	<2	<1	<10	<5	<1		
BLANK	---	0.4	6.38	15	237	0.7	<2	0.07	<0.5	23	54	942	745	>10.00	<2	0.32	10	0.15	526	2	0.06	426	0.03	19	0.05	<3	<10	15	0.55	3	318	<10	48	109		
STD-OREAS-45E	---	>6.0	1.20	167	827	1.7	<2	3.43	557.4	14	89	16	1381	>10.00	<2	0.72	8	1.98	3482	6	0.04	22	0.03	>2200	19.90	126	<10	23	0.04	<2	16	<10	>2200	19		
12900	<5	<0.2	0.08	14	131	<0.5	<2	16.52	0.5	4	<2	13	<5	0.19	<2	0.05	1	9.23	61	<1	0.01	<1	<0.01	73	0.02	<3	<10	148	<0.01	4	2	<10	96	1		
12902	<5	<0.2	0.19	<5	40	<0.5	<2	16.63	1.3	5	<2	47	<5	0.22	4	0.12	2	9.88	67	6	0.02	56	<0.01	243	0.02	<3	<10	184	0.01	4	4	<10	61	3		
12903	<5	<0.2	0.19	16	38	<0.5	<2	15.93	<0.5	5	<2	16	<5	0.22	<2	0.14	1	>10.00	62	<1	0.01	2	<0.01	7	0.02	<3	<10	181	0.01	5	4	<10	14	3		
12904	<5	<0.2	0.11	7	27	<0.5	<2	16.90	0.5	4	<2	8	<5	0.17	4	0.08	1	>10.00	54	<1	0.02	3	<0.01	8	0.02	3	<10	193	<0.01	4	4	<10	14	2		
12905	<5	<0.2	0.02	<5	<5	<0.5	<2	>20.00	<0.5	3	<2	<5	<5	0.02	4	0.01	1	0.12	12	<1	0.01	<1	<0.01	<2	0.01	<3	<10	148	<0.01	<2	1	<10	<5	1		

**Assay Certificate**

Client: Altius Resources Inc.  
 Geologist: Sail Pond Project (SPTR-11/13/Skid #3)  
 Project: Rock  
 Sample:



DskFile: 378-1717353 - As  
 DateIn: November 1, 2017  
 DateOut: November 28, 2017

Email: info@easternanalytical.ca  
 P.O. Box 187  
 403 Little Bay Road Springdale, NL A0J 1T0  
 Phone: 709-673-3909 / Fax: 709-673-3408

Signed by: 

Results apply to samples as submitted.

**ISO 17025**

\* Accredited Procedures

SAMPLE NUMBER	* Cu %	* Pb %	* Zn %	* Ag g/t	Sb %
BLANK	<0.01	<0.01	<0.01	<0.1	<0.01
STD ME - 1201	1.65	0.48	5.13	38.3	---
STD CD - 1	---	---	---	---	3.54
12375	---	13.8	18.0	197.4	---
12376	---	---	---	90.6	0.10
12400	2.31	---	---	---	---
12406	---	---	---	11.2	---
12425	---	12.4	17.1	200.1	---
12429	---	0.31	---	142.4	0.15
11306	---	---	---	31.7	---
11307	---	---	---	83.0	0.11
12475	---	13.5	17.5	192.8	---
12482	---	---	---	85.6	0.08
12483	---	---	---	9.0	---
12493	---	---	---	58.8	0.07
12500	2.29	---	---	---	---

Au + ICP- 34 Certificate

Client: Altius Resources Inc.
Geologist:
Project: Sail Pond Project (SPTR-11/13/Skid #3)
Sample: Rock



DskFile: 378-1717353

DateIn: November 1, 2017
DateOut: November 28, 2017

Email: info@easternanalytical.ca
P.O. Box 187
403 Little Bay Road Springdale, NL A0J 1T0
Phone: 709-673-3909 / Fax: 709-673-3408

Signed by: [Signature]

Results apply to samples as submitted.

Concentrations in assay range may cause
interferences in associated elements.

Table with columns: Sample Number, Au, Ag, Al, As, Ba, Be, Bi, Ca, Cd, Ce, Co, Cr, Cu, Fe, In, K, La, Mg, Mn, Mo, Na, Ni, P, Pb, S, Sb, Se, Sn, Sr, Ti, U, V, W, Zn, Zr. Rows include BLANK - AU, STD OREAS 202, BLANK, STD-OREAS-45E, 12354, 12355, 12356, 12357, 12358, 12359, 12360, 12361, 12362, 12363, 12363 DUP - P, 12364, 12365, 12366, 12367, 12368, 12369, 12370, 12371, 12372, 12373, 12373 DUP - C, 12374, 12375, 12376, 12377, 12378, 12379, 12380, 12381, 12382, 12383, 12383 DUP - P, 12384, 12385, 12386, 12387, 12388, 12389.

Au + ICP- 34 Certificate

Client: Altius Resources Inc.
Geologist:
Project: Sail Pond Project (SPTR-11/13/Skid #3)
Sample: Rock

DskFile: 378-1717353

DateIn: November 1, 2017
DateOut: November 28, 2017



Email: info@easternanalytical.ca
P.O. Box 187
403 Little Bay Road Springdale, NL A0J 1T0
Phone: 709-673-3909 / Fax: 709-673-3408

Signed by: [Signature]

Results apply to samples as submitted.

Concentrations in assay range may cause
interferences in associated elements.

Table with columns for Sample Number, Au (ppb), Ag (ppm), Al (%), As (ppm), Ba (ppm), Be (ppm), Bi (ppm), Ca (%), Cd (ppm), Ce (ppm), Co (ppm), Cr (ppm), Cu (ppm), Fe (%), In (ppm), K (%), La (ppm), Mg (%), Mn (ppm), Mo (ppm), Na (%), Ni (ppm), P (%), Pb (ppm), S (%), Sb (ppm), Se (ppm), Sn (ppm), Sr (ppm), Ti (%), U (ppm), V (ppm), W (ppm), Zn (ppm), Zr (ppm)





**Au + ICP- 34 Certificate**

Client: Altius Resources Inc.  
 Geologist: Sail Pond Project (SPTR-11/13/Skid #3)  
 Project: Rock  
 Sample:



DskFile: 378-1717353

DateIn: November 1, 2017  
 DateOut: November 28, 2017

Email: info@easternanalytical.ca  
 P.O. Box 187  
 403 Little Bay Road Springdale, NL A0J 1T0  
 Phone: 709-673-3909 / Fax: 709-673-3408

Signed by:

Results apply to samples as submitted.

Concentrations in assay range may cause interferences in associated elements.

Sample Number	* Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe %	In ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	S %	Sb ppm	Se ppm	Sn ppm	Sr ppm	Ti %	U ppm	V ppm	W ppm	Zn ppm	Zr ppm
12490	<5	<0.2	0.19	<5	24	<0.5	<2	10.36	<0.5	6	2	62	5	0.34	<2	0.10	2	8.75	102	1	0.01	9	0.01	12	0.02	<3	<10	10	133	0.01	5	10	<10	20	2
12491	6	<0.2	0.29	13	28	<0.5	2	12.13	0.5	6	2	36	11	0.36	2	0.14	2	>10.00	106	2	0.01	6	0.01	12	0.02	6	<10	166	0.01	5	14	<10	24	3	
12492	<5	0.3	0.38	<5	32	<0.5	3	13.73	0.6	7	3	24	14	0.40	4	0.19	3	>10.00	111	<1	0.01	8	<0.01	54	0.04	12	<10	180	0.01	5	14	<10	31	5	
12493	41	>6.0	0.79	76	67	<0.5	<2	11.54	16.3	7	3	82	2670	0.64	<2	0.39	3	9.41	119	2	0.01	11	0.01	384	0.27	>440	<10	145	0.03	6	23	<10	597	7	
12494	<5	<0.2	0.90	<5	24	<0.5	2	>20.00	0.6	6	2	23	9	0.44	<2	0.45	3	2.26	56	2	0.01	8	<0.01	6	0.02	<3	<10	186	0.03	5	22	<10	16	8	
12495	<5	0.2	0.29	<5	7	<0.5	4	>20.00	1.0	5	<2	14	12	0.14	<2	0.14	2	1.08	34	1	0.01	3	<0.01	8	0.02	5	<10	194	0.01	4	6	<10	17	3	
12496	<5	<0.2	0.14	14	27	<0.5	<2	>20.00	<0.5	4	<2	12	<5	0.07	6	0.07	1	0.53	29	1	<0.01	3	<0.01	3	0.02	<3	<10	169	0.01	5	4	<10	6	2	
12497	<5	0.2	0.09	8	<5	<0.5	<2	>20.00	<0.5	5	<2	7	5	0.04	4	0.04	1	0.47	25	2	0.01	1	<0.01	7	0.02	3	10	<10	<0.01	6	4	<10	5	2	
12498	<5	0.2	2.03	8	129	<0.5	<2	11.57	<0.5	30	5	42	22	1.07	5	1.05	12	9.06	249	1	0.02	16	0.02	16	0.04	<3	<10	181	0.10	4	25	<10	48	36	
12499	<5	<0.2	0.38	<5	22	<0.5	2	12.19	<0.5	10	2	53	9	0.40	2	0.19	3	9.80	102	2	0.01	5	<0.01	9	0.03	3	<10	137	0.01	6	7	<10	17	4	
12499 DUP - C	<5	<0.2	0.39	<5	22	<0.5	<2	11.84	<0.5	10	2	53	9	0.40	<2	0.20	3	9.64	101	1	0.01	8	<0.01	8	0.03	3	<10	135	0.01	5	7	<10	18	4	
BLANK - AU	<5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
STD OREAS 206	2121	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
12500	---	2.1	1.00	90	8	0.6	11	0.25	0.6	32	164	75	>10000	6.60	<2	0.06	14	1.86	118	8	0.01	31	0.07	186	6.67	11	<10	<10	1	0.04	7	15	<10	92	25

**Assay Certificate**

Client: Altius Resources Inc.  
 Geologist: R. Smith  
 Project: Sail Pond (SPTR-14 / Skid #5)  
 Sample: Rock



DskFile: 378-1717354 - As  
 DateIn: November 1, 2017  
 DateOut: December 5, 2017

Email: info@easternanalytical.ca  
 P.O. Box 187  
 403 Little Bay Road Springdale, NL A0J 1T0  
 Phone: 709-673-3909 / Fax: 709-673-3408

Signed by: *[Signature]*

Results apply to samples as submitted.

**ISO 17025**

\* Accredited Procedures

SAMPLE NUMBER	* Cu %	* Pb %	* Zn %	* Ag g/t	Sb %
BLANK	<0.01	<0.01	<0.01	<0.1	<0.01
STD ME - 1201	1.59	0.46	5.10	40.0	---
STD CD - 1	---	---	---	---	3.54
11375	---	13.0	17.9	206.2	---
11400	2.23	---	---	---	---
14715	---	---	---	11.6	---
14724	1.48	---	0.54	245.0	0.32
14725	---	13.0	17.8	207.0	---
14726	---	---	0.47	104.1	0.09

Au + ICP- 34 Certificate

Client: Altius Resources Inc.
Geologist: R. Smith
Project: Sail Pond (SPTR-14 / Skid #5)
Sample: Rock



Signed by: [Signature]

DskFile: 378-1717354

Results apply to samples as submitted.

Email: info@easternanalytical.ca

DateIn: November 1, 2017

Concentrations in assay range may cause interferences in associated elements.

P.O. Box 187

403 Little Bay Road Springdale, NL A0J 1T0

Phone: 709-673-3909 / Fax: 709-673-3408

Table with columns for Sample Number, Element, and Concentration. Rows include BLANK - AU, STD - OREAS 200, STD OREAS 923, and various sample numbers (11372-14707) with concentrations for Au, Ag, Al, As, Ba, Be, Bi, Ca, Cd, Ce, Co, Cr, Cu, Fe, In, K, La, Mg, Mn, Mo, Na, Ni, P, Pb, S, Sb, Se, Sn, Sr, Ti, U, V, W, Zn, Zr.

**Au + ICP- 34 Certificate**

Client: Altius Resources Inc.  
 Geologist: R. Smith  
 Project: Sail Pond (SPTR-14 / Skid #5)  
 Sample: Rock



Signed by: *[Signature]*

DskFile: 378-1717354

Email: info@easternanalytical.ca  
 P.O. Box 187  
 403 Little Bay Road Springdale, NL A0J 1T0  
 Phone: 709-673-3909 / Fax: 709-673-3408

Results apply to samples as submitted.

DateIn: November 1, 2017  
 DateOut: December 5, 2017

Concentrations in assay range may cause interferences in associated elements.

Sample Number	* Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe %	In ppm	K %	La ppm	Mg %	Mh ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	S %	Sb ppm	Se ppm	Sn ppm	Sr ppm	Ti %	U ppm	V ppm	W ppm	Zn ppm	Zr ppm		
14708	<5	<0.2	0.77	10	56	<0.5	<2	16.60	<0.5	9	<2	33	<5	0.35	3	0.45	3	9.14	86	3	0.01	11	0.01	4	0.02	3	<10	155	0.02	5	25	<10	12	6			
14709	<5	<0.2	0.66	6	48	<0.5	<2	16.86	<0.5	7	<2	11	<5	0.29	2	0.37	3	>10.00	90	1	0.01	5	0.02	<2	0.02	<3	<10	172	0.02	6	26	<10	12	7			
14710	<5	<0.2	0.18	6	32	<0.5	<2	>20.00	0.7	5	<2	10	<5	0.10	<2	0.10	2	2.88	42	<1	0.01	3	<0.01	3	0.01	<3	<10	179	0.01	3	5	<10	5	2			
14711	<5	<0.2	0.43	<5	66	<0.5	<2	16.44	<0.5	5	<2	11	<5	0.25	<2	0.25	2	>10.00	103	1	0.01	4	<0.01	2	0.01	<3	12	165	0.01	4	9	<10	14	4			
14711 DUP - C	<5	<0.2	0.44	<5	66	<0.5	<2	16.76	<0.5	5	<2	13	<5	0.25	4	0.26	2	>10.00	103	1	0.01	1	<0.01	<2	0.02	4	<10	166	0.02	4	10	<10	14	4			
BLANK - AU	<5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
STD OREAS 206	2136	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
BLANK	---	<0.2	<0.01	<5	<5	<0.5	<2	0.01	<0.5	<2	<2	<5	<5	0.01	<2	<0.01	<1	0.01	<1	<1	0.01	<1	<0.01	<2	0.01	<3	<10	<1	<0.01	<2	<1	<10	<5	<1			
STD OREAS 45d	---	0.3	7.66	15	172	0.8	<2	0.20	0.5	35	29	529	361	>10.00	<2	0.41	16	0.24	470	3	0.10	225	0.04	23	0.06	<3	<10	28	0.76	3	232	<10	48	136			
14712	<5	<0.2	0.04	6	17	<0.5	<2	17.44	<0.5	3	<2	28	<5	0.09	<2	0.02	1	>10.00	66	1	0.01	4	<0.01	2	0.01	<3	<10	161	<0.01	4	3	<10	7	1			
14713	<5	<0.2	0.07	7	21	<0.5	<2	17.03	<0.5	5	<2	15	<5	0.09	<2	0.04	1	>10.00	61	<1	0.01	3	<0.01	3	0.01	<3	<10	175	<0.01	4	4	<10	5	2			
14714	<5	<0.2	0.07	10	18	<0.5	<2	16.50	<0.5	4	<2	16	<5	0.13	<2	0.04	1	>10.00	68	<1	0.01	2	<0.01	61	0.02	<3	<10	171	<0.01	5	5	<10	15	2			
14715	<5	>6.0	0.13	8	21	<0.5	<2	15.92	2.6	5	<2	24	377	0.16	4	0.08	1	9.45	76	<1	0.01	5	<0.01	786	0.06	81	<10	178	<0.01	4	6	<10	73	2			
14716	<5	1.1	0.11	6	29	<0.5	<2	16.37	<0.5	4	<2	12	72	0.12	<2	0.06	1	>10.00	77	<1	0.01	<1	<0.01	8	0.02	7	<10	161	<0.01	4	6	<10	20	1			
14717	<5	<0.2	0.05	7	19	<0.5	<2	16.57	<0.5	5	<2	21	<5	0.10	3	0.03	1	>10.00	74	<1	0.01	6	<0.01	4	0.01	<3	<10	149	<0.01	5	4	<10	9	1			
14718	<5	<0.2	0.05	11	24	<0.5	<2	17.08	<0.5	3	<2	24	<5	0.09	4	0.03	1	>10.00	78	<1	0.01	5	<0.01	4	0.01	<3	<10	170	<0.01	4	5	<10	11	1			
14719	<5	0.2	0.08	11	16	<0.5	<2	16.88	0.5	3	<2	11	<5	0.10	4	0.05	1	>10.00	60	<1	0.01	5	<0.01	548	0.02	6	<10	173	<0.01	4	4	<10	11	1			
14720	<5	<0.2	0.22	7	20	<0.5	<2	17.31	0.5	4	<2	11	<5	0.08	3	0.12	1	>10.00	70	<1	0.01	8	<0.01	7	0.01	<3	<10	218	<0.01	5	6	<10	10	1			
14721	<5	<0.2	0.06	8	42	<0.5	<2	17.58	0.6	5	<2	9	7	0.08	<2	0.04	1	>10.00	55	<1	0.01	8	<0.01	3	0.01	3	<10	159	<0.01	5	4	<10	13	1			
14721 DUP - P	<5	<0.2	0.06	11	42	<0.5	<2	16.72	0.7	4	<2	9	5	0.08	2	0.04	1	>10.00	57	<1	0.01	4	<0.01	12	0.01	5	<10	163	<0.01	3	4	<10	19	1			
14722	<5	<0.2	0.03	6	15	<0.5	<2	16.21	<0.5	4	<2	11	<5	0.08	3	0.02	1	>10.00	79	<1	0.01	3	<0.01	5	0.01	<3	<10	173	<0.01	4	4	<10	14	1			
14723	<5	<0.2	0.03	11	10	<0.5	<2	16.89	0.5	3	<2	16	<5	0.07	2	0.02	1	>10.00	82	<1	0.01	4	<0.01	4	0.01	3	<10	156	<0.01	4	3	<10	9	1			
14724	<5	>6.0	0.05	746	13	<0.5	<2	15.75	112.3	3	2	35	>10000	0.16	<2	0.03	1	>10.00	79	1	0.01	10	0.02	136	0.96	>440	<10	130	<0.01	5	3	<10	>2200	1			
14725	---	>6.0	1.20	183	593	1.6	<2	3.52	501.9	14	85	16	1307	>10.00	<2	0.75	7	1.94	3450	5	0.04	22	0.03	>2200	>20.00	125	<10	21	0.04	<2	14	<10	>2200	23			
14726	<5	>6.0	0.04	484	51	<0.5	<2	15.66	72.6	3	<2	21	5360	0.12	<2	0.03	1	>10.00	80	1	0.01	4	0.01	290	0.40	>440	<10	126	<0.01	3	3	<10	>2200	1			
14727	<5	1.3	0.05	20	41	<0.5	<2	15.91	3.5	3	<2	53	86	0.11	<2	0.03	1	>10.00	83	1	0.01	5	<0.01	92	0.03	17	<10	143	<0.01	4	4	<10	185	1			
14728	<5	2.0	0.08	16	20	<0.5	<2	16.40	1.1	4	<2	17	127	0.11	<2	0.05	1	>10.00	70	<1	0.01	5	<0.01	9	0.02	22	<10	163	<0.01	5	5	<10	41	1			
14729	<5	<0.2	0.16	12	36	<0.5	<2	15.81	<0.5	4	<2	15	<5	0.13	2	0.09	1	>10.00	71	<1	0.01	6	<0.01	6	0.01	3	<10	171	<0.01	4	6	<10	12	2			
14730	<5	<0.2	0.39	8	42	<0.5	2	16.44	<0.5	5	<2	16	5	0.18	3	0.23	1	>10.00	74	1	0.01	5	<0.01	9	0.02	<3	<10	183	0.01	3	12	<10	18	3			

**Assay Certificate**

Client: Altius Resources Inc.  
 Geologist: R. Smith  
 Project: Sail Pond (SPTR-16 / Skid #5)  
 Sample: Rock



Signed by: *[Signature]*

DskFile: 378-1717357 - As

DateIn: November 9 2017

DateOut: December 5, 2017

Email: info@easternanalytical.ca

P.O. Box 187

403 Little Bay Road Springdale, NL A0J 1T0

Phone: 709-673-3909 / Fax: 709-673-3408

**ISO 17025**

\* Accredited Procedures

Results apply to samples as submitted.

SAMPLE NUMBER	* Cu %	* Pb %	* Zn %	* Ag g/t	Sb %
BLANK	<0.01	<0.01	<0.01	<0.1	<0.01
STD ME - 1201	1.59	0.46	5.10	40.0	---
STD CD - 1	---	---	---	---	3.54
14822	---	---	---	35.8	---
14825	---	12.8	18.0	208.6	---
14828	---	0.32	---	22.9	---
14829	---	---	---	12.7	---
14830	---	0.28	---	11.7	---
14843	---	---	0.98	---	---
14847	---	---	0.43	46.3	---
14850	2.27	---	---	---	---
14852	---	0.38	---	36.5	---
14866	---	---	---	10.4	---
14866 DUP - P	---	---	---	10.3	---
14875	---	13.1	17.9	204.7	---
14881	2.53	0.58	0.44	383.0	0.56
14882	---	---	---	10.8	---
14891	---	---	---	19.1	---
14894	---	0.47	---	13.5	---

Au + ICP- 34 Certificate

Client: Altius Resources Inc.
Geologist: R. Smith
Project: Sail Pond (SPTR-16 / Skid #5)
Sample: Rock



DskFile: 378-1717357

Email: info@easternanalytical.ca
P.O. Box 187
403 Little Bay Road Springdale, NL A0J 1T0
Phone: 709-673-3909 / Fax: 709-673-3408

DateIn: November 9 2017
DateOut: December 5, 2017

Signed by: [Signature]

Results apply to samples as submitted.

Concentrations in assay range may cause
interferences in associated elements.

Table with columns: Sample Number, Au, Ag, Al, As, Ba, Be, Bi, Ca, Cd, Ce, Co, Cr, Cu, Fe, In, K, La, Mg, Mn, Mo, Na, Ni, P, Pb, S, Sb, Se, Sn, Sr, Ti, U, V, W, Zn, Zr. Rows include BLANK - AU, STD - OREAS 221, BLANK, STD OREAS 45e, 14817, 14818, 14819, 14820, 14821, 14822, 14823, 14824, 14825, 14826, 14827, 14828, 14829, 14830, 14831, 14832, 14833, 14834, 14835, 14836, 14837, 14838, 14839, 14840, 14841, 14842, 14843, 14844, 14845, 14846, 14847, 14848, 14849, 14850, 14851, 14852.

Au + ICP- 34 Certificate

Client: Altius Resources Inc.  
Geologist: R. Smith  
Project: Sail Pond (SPTR-16 / Skid #5)  
Sample: Rock

DskFile: 378-1717357

DateIn: November 9 2017  
DateOut: December 5, 2017



Email: info@easternanalytical.ca  
P.O. Box 187  
403 Little Bay Road Springdale, NL A0J 1T0  
Phone: 709-673-3909 / Fax: 709-673-3408

Signed by:

Results apply to samples as submitted.

Concentrations in assay range may cause interferences in associated elements.

Table with columns for Sample Number, Element (Au through Zr), and Concentration (ppm, %).



**Au + ICP- 34 Certificate**

Client: Altius Resources Inc.  
 Geologist: R. Smith  
 Project: Sail Pond (SPTR-16 / Skid #5)  
 Sample: Rock



Signed by: 

DskFile: 378-1717357

Email: info@easternanalytical.ca  
 P.O. Box 187  
 403 Little Bay Road Springdale, NL A0J 1T0  
 Phone: 709-673-3909 / Fax: 709-673-3408

Results apply to samples as submitted.  
 Concentrations in assay range may cause  
 interferences in associated elements.

DateIn: November 9 2017  
 DateOut: December 5, 2017

Sample Number	* Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe %	In ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	S %	Sb ppm	Se ppm	Sn ppm	Sr ppm	Ti %	U ppm	V ppm	W ppm	Zn ppm	Zr ppm
14888	<5	<0.2	0.63	10	33	<0.5	<2	15.76	<0.5	8	2	19	6	0.37	4	0.39	3	>10.00	72	1	0.01	4	<0.01	7	0.02	<3	<10	15	159	0.02	4	7	<10	17	6
14889	<5	<0.2	0.35	10	16	<0.5	3	15.30	<0.5	7	<2	19	<5	0.23	4	0.21	2	>10.00	55	1	0.01	6	<0.01	3	0.01	5	<10	148	0.01	3	4	<10	10	3	
14890	<5	0.5	0.48	7	22	<0.5	<2	13.28	0.8	8	<2	36	24	0.29	<2	0.29	2	9.31	66	1	0.01	3	<0.01	16	0.02	7	<10	11	131	0.01	4	6	<10	20	5
14891	<5	>6.0	0.70	10	32	<0.5	<2	15.04	6.0	11	2	30	530	0.47	<2	0.41	4	9.85	74	1	0.01	7	<0.01	341	0.10	98	<10	11	160	0.03	5	10	<10	260	9
14892	<5	<0.2	0.61	15	28	<0.5	<2	14.60	<0.5	10	<2	26	5	0.42	3	0.37	4	9.60	71	1	0.01	4	<0.01	17	0.02	<3	<10	<10	166	0.02	5	9	<10	17	7
14893	<5	0.3	0.44	7	27	<0.5	<2	17.04	0.7	9	<2	12	21	0.26	<2	0.27	3	9.17	68	1	0.01	4	<0.01	27	0.02	6	<10	187	0.01	4	6	<10	23	4	
14894	5	>6.0	0.48	15	24	<0.5	<2	12.25	3.8	7	<2	55	153	0.34	2	0.28	3	8.45	60	1	0.01	6	<0.01	>2200	0.11	36	<10	11	125	0.01	4	7	<10	95	5
14895	<5	2.3	0.27	5	28	<0.5	<2	8.58	1.0	6	3	59	117	0.32	<2	0.16	2	5.60	56	1	0.01	6	<0.01	20	0.02	20	<10	96	0.01	3	5	<10	30	3	

Geochem Analysis Certificate

Client: Altius Resources Inc.  
Geologist:  
Project:  
Sample: Channel

DskFile: 378-1817832  
DateIn: December 7, 2017  
DateOut: January 10, 2017



Signed by: *[Signature]*

Results apply to samples as submitted.

Email: info@easternanalytical.ca  
P.O. Box 187  
403 Little Bay Road Springdale, NL A0J 1T0  
Phone: 709-673-3909 / Fax: 709-673-3408

ISO 17025

\* Accredited Procedures

SAMPLE NUMBER	Ag ppm
BLANK	<0.2
STD - OREAS 600	24.9
STD - OREAS 601	50.9
STD - OREAS 602	120.5
STD - OREAS 603	300.8
STD - OREAS 604	501.2
STD - OREAS 605	993.6
12595	463.7
14770	387.4
14881	467.2
12942	498.5
11830	416.6
11555	419.6
11965	321.6
11635	328.5
11679	355.7
11626	280.6
11587	275.7
11687	253.1
11928	260.5
14724	218.4
11628	221.6
11572	250.0
11968	213.1
14732	209.1
11910	273.8
11588	200.2
11582	218.4
11608	229.8
11664	223.9
11554	193.8
11654	661.9
11686	166.2
11586	1516.0
12596	166.4
11609	169.8
11915	175.4

Geochem Analysis Certificate

Client: Altius Resources Inc.  
Geologist:  
Project:  
Sample: Channel

DskFile: 378-1817832  
DateIn: December 7, 2017  
DateOut: January 10, 2017



Signed by: *[Signature]*

Results apply to samples as submitted.

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Phone: 709-673-3909 / Fax: 709-673-3408

ISO 17025

\* Accredited Procedures

SAMPLE NUMBER	Ag ppm
11584	1179.0
11676	154.2
11934	315.3
11893	206.5
11966	123.8
11629	121.9
11922	134.7
11808	136.0
11619	111.1
11770	125.8
12856	93.5
11366	94.3
14726	96.1
11544	102.5
11590	97.8
11880	122.8
11611	85.8
11785	86.0
11546	72.5
11904	90.5
12453	67.5
11836	91.1
11789	85.0
11967	73.9
12944	79.2
12430	64.3
11829	86.2
14786	62.5
12854	59.0
11909	74.2
14780	61.0
11722	65.4
12952	57.2
11323	49.0
11936	67.9
11339	50.3
11839	65.5

Geochem Analysis Certificate

Client: Altius Resources Inc.  
Geologist:  
Project:  
Sample: Channel  
DskFile: 378-1817832  
DateIn: December 7, 2017  
DateOut: January 10, 2017



Signed by: 

Results apply to samples as submitted.

Email: info@easternanalytical.ca  
P.O. Box 187  
403 Little Bay Road Springdale, NL A0J 1T0  
Phone: 709-673-3909 / Fax: 709-673-3408

**ISO 17025**

\* Accredited Procedures

SAMPLE NUMBER	Ag ppm
12868	52.5
11573	54.6
11556	56.1
11370	44.8
11571	53.5
11612	56.2
11811	59.3
11338	38.4
12935	44.1

Geochem Analysis Certificate

Client: Altius Resources Inc.  
Geologist:  
Project:  
Sample: Rock

DskFile: 378-1817833

DateIn: December 7, 2017  
DateOut: January 10, 2017



Signed by: *[Signature]*

Results apply to samples as submitted.

Email: info@easternanalytical.ca

P.O. Box 187

403 Little Bay Road Springdale, NL A0J 1T0

Phone: 709-673-3909 / Fax: 709-673-3408

ISO 17025

\* Accredited Procedures

SAMPLE NUMBER	Ag ppm
BLANK	<0.2
STD - OREAS 600	24.7
STD - OREAS 601	47.9
STD - OREAS 602	121.6
STD - OREAS 603	300.5
STD - OREAS 604	488.5
STD - OREAS 605	944.5
12744	803.2
8333	660.6
8337	526.4
12806	677.1
12753	349.6
10518	824.5
12741	568.6
12747	359.2
8332	482.0
10519	497.1
8329	943.9
12617	361.2
12523	590.8
12574	350.5
12606	449.0
12666	323.0
12529	288.5
12591	2030.0
13420	473.0
12740	290.7
10516	273.2
12807	303.1
12701	211.9
12808	430.0
10520	258.4
12572	253.0
12667	269.8
12651	213.3
12748	176.1
12619	200.5

Geochem Analysis Certificate

Client: Altius Resources Inc.  
Geologist:  
Project:  
Sample: Rock

DskFile: 378-1817833  
DateIn: December 7, 2017  
DateOut: January 10, 2017



Signed by: *[Signature]*

Results apply to samples as submitted.

Email: info@easternanalytical.ca  
P.O. Box 187  
403 Little Bay Road Springdale, NL A0J 1T0  
Phone: 709-673-3909 / Fax: 709-673-3408

ISO 17025

\* Accredited Procedures

SAMPLE NUMBER	Ag ppm
12571	211.3
12505	195.5
12752	150.6
12690	286.6
12540	141.0
10517	173.0
12530	194.2
12625	169.1
13440	190.3
12528	170.0
12507	144.8
12579	146.9
12521	154.6
13418	148.4
12713	111.1
12664	145.7
12804	156.9
12602	146.3
8331	136.9
12520	117.0
12510	126.6
12508	126.8
8336	117.4
12613	96.2
12503	100.5
13439	214.5
12721	120.1
12698	111.8
8330	108.0
12539	105.5
12592	123.3
12641	79.7
12576	99.1
12674	82.7
13419	107.3
12749	72.7
12558	107.0

Geochem Analysis Certificate

Client: Altius Resources Inc.  
Geologist:  
Project:  
Sample: Rock

DskFile: 378-1817833

DateIn: December 7, 2017  
DateOut: January 10, 2017



Signed by: *[Signature]*

Results apply to samples as submitted.

Email: info@easternanalytical.ca

P.O. Box 187

403 Little Bay Road Springdale, NL A0J 1T0

Phone: 709-673-3909 / Fax: 709-673-3408

ISO 17025

\* Accredited Procedures

SAMPLE NUMBER	Ag ppm
12559	108.1
12645	77.4
12715	84.7
12533	90.5
12687	102.3
12755	75.7
12697	69.5
12616	83.3
12648	73.4
12524	90.7
12646	72.7
12668	79.0
12601	85.5
12515	523.9
12695	70.7
12688	79.2
12665	77.3
12565	81.8
12568	56.1
12699	74.9
12594	61.2
12561	66.5
12610	50.4
12513	61.4
12700	55.1
12564	64.1
12650	49.9
12703	56.9
12551	59.1
12705	51.0
12588	51.3
12570	51.2
12661	55.9
12628	58.0
12578	50.5
12642	45.4



Geochem Analysis Certificate

Client: Altius Resources Inc.

Geologist:

Project: Sail Pond

Sample: Rock - Reruns

DskFile: 378-1817834

DateIn: December 7, 2017

DateOut: January 10, 2018



Signed by: *[Signature]*

Results apply to samples as submitted.

Email: info@easternanalytical.ca

P.O. Box 187

403 Little Bay Road Springdale, NL A0J 1T0

Phone: 709-673-3909 / Fax: 709-673-3408

**ISO 17025**

\* Accredited Procedures

SAMPLE NUMBER	Ag ppm
BLANK	<0.2
STD - OREAS 601	47.9
STD - OREAS 602	121.6
12376	79.1
12429	111.0
11307	74.4
12482	76.7
12493	53.1

---

**APPENDIX 4. GEOPHYSICAL REPORTS ON THE SAIL POND PROPERTY BY  
HALE AND GILLIATT (2018, 2019)**

## **REPORT ON IP/RESISTIVITY SURVEY**

**For**

**New Found Gold Corp.**

**Sail Pond Property**

**Mineral Exploration Licenses**

**St Anthony Area,  
Great Northern Peninsula, Newfoundland  
Newfoundland & Labrador**

**NTS 2M04/2L13**

Licenses	Issuance Date	Tenure Year
024652M	2017-Jan-13	2
025829M <sup>1</sup>	2017-Jan-13	2
025831M <sup>2</sup>	2016-Aug-24	3
026268M <sup>3</sup>	2017-Jan-13	2

Report By

C. J. Hale Ph. D., P. Geo.  
John Gilliatt B. Sc., P. Geo.

November 14, 2018

### **SUMMARY**

An induced polarization/resistivity survey was carried out on New Found Gold Inc.'s Sail Pond project located near St. Anthony, Newfoundland. The survey was designed by Intelligent Exploration and Dr. Chris Hale, P. Geo. was the Qualified Person for the survey. The work was contracted by Abitibi Geophysics whose logistical summary report is included as an appendix to this document. It was completed between August and October, 2018. The survey specifications were n=8, 50m dipoles on lines spaced 200m for detailing over the original Sail Pond showing to n=8, 50m dipoles on lines spaced 200 and 400m for reconnaissance across the 12 kilometers including the Sail Pond north and south showings. A grid sketch is shown in Figure 1. Lines were placed South-East to North West to be at a large angle to the regional north-northeast anticlinal structural pattern.

The Sail Pond mineralized zone is known from physical property measurements on hand samples to be characterized by a high central resistivity reflecting silicification, flanked by lower resistivity that coincides with local chargeability highs that can be correlated across many lines. Both the North and South mineralized ones that have been recognized in trenching and geochemical analysis are indicated by elevated chargeability and additional anomalous chargeability is also located in the centre of the grid at the south end and between 9200N and 12000N. Minor zones of chargeability on the east limb of the White Arm anticline between 11200N and 15000N appear to be formational rather than strong concentrations of mineralization.

Additional work is recommended on the Sail Pond grid to test the chargeability anomalies. A gravity survey is recommended for a few lines crossing the IP chargeability maxima, particularly along the western side of the grid, to differentiate between anomalies caused by formational responses from shaly zones within the carbonate host and local concentrations of dense sulphide mineralization that may be economic targets. Coincident gravity and chargeability anomalies would then provide clear targets for diamond drilling.

Additional IP/Res is also recommended in a winter program to extend the coverage over the southern extension of T1 as well as extending lines 4000N to 6800N to the west once the survey can be continued over the frozen ponds.

On the basis of the IP/Res information alone the best targets seem to be the chargeability anomalies 1) from 4000N to 5000N in the west central part of the grid, 2) from 11200N to 12800N at the western edge of the grid and 3) from 14600N to 15200N where chargeability appears to correlate with a down dip extension of the mineralization recognized in the North Zone trenching. Preliminary DDH are recommended to test these targets.

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## Appendices

- Appendix A: List of Personnel and Contractors
- Appendix B: Digital Data and Report CD
- Appendix C: Instrument Specification Sheets
- Appendix D: Plates
- Appendix E: Abitibi Geophysics Logistical Report

### **1. Introduction**

Time-Domain Induced Polarization/Resistivity (IP/Resistivity) Surveys were completed on New Found Gold Inc.'s (NFG) Sail Pond Property located in Northern Newfoundland. The survey was designed by Intelligent Exploration (IE). C. J. Hale, Ph.D., P. Geo was the Qualified Person supervising the project for IE.

New Found Gold signed an agreement to purchase the Sail Pond property from Altius Minerals Inc. on March 28, 2018.

No historical drilling has been undertaken on the Sail Pond showings. Physical property measurements have been carried out on a few surface and trench samples. These data were summarized in an earlier report by Gilliatt and Hale (2018).

The samples are essentially non-magnetic, and highly resistive. Chargeability is elevated in samples that show evidence of disseminated sulphide mineralization and these also have a higher specific gravity. These target characteristics suggested that IP/Resistivity would be the best way to map the largely non-conductive and non-magnetic alteration zone in three dimensions beneath the cover. Sulphide concentrations rarely exceed the concentration threshold for large scale conductors to be formed but some reduction in resistivity is also associated with chargeability anomalies where the sulphide concentration increases.

Reconnaissance ("a" = 50 m, 200m-400m line spacing) IP/Resistivity surveys were completed to define the extension of the known Sail Pond mineralization at depth.

This report covers geophysical work completed from August 13, 2018 to October 15, 2018. During this period 104.6 km of IP/Resistivity data were collected on the property.

### **2. Property Location, Access and Claims**

Figure 1 shows the location of the Sail Pond property approximately 27 km kilometers south of the town of St. Anthony on the Great Northern Peninsula of Newfoundland. It is accessed by paved and well-maintained gravel roads, and secondary forest access roads. The project covers 15,250 hectares in four contiguous mineral exploration licenses (610 claims). The licenses were acquired through a combination of map staking and an option agreement executed on December 19, 2016 with local prospector, Tony Kearney who held four-original map-staked mineral licenses (30



## I.E. Intelligent Exploration

claims) that are now included within the entire project area. Altius Minerals acquired 100% interest in Kearney's mineral licenses in March 2018.

A Letter of Intent was executed with New Found Gold for the sale of the entire project on March 28, 2018, subject to payment and exploration expenditure conditions.

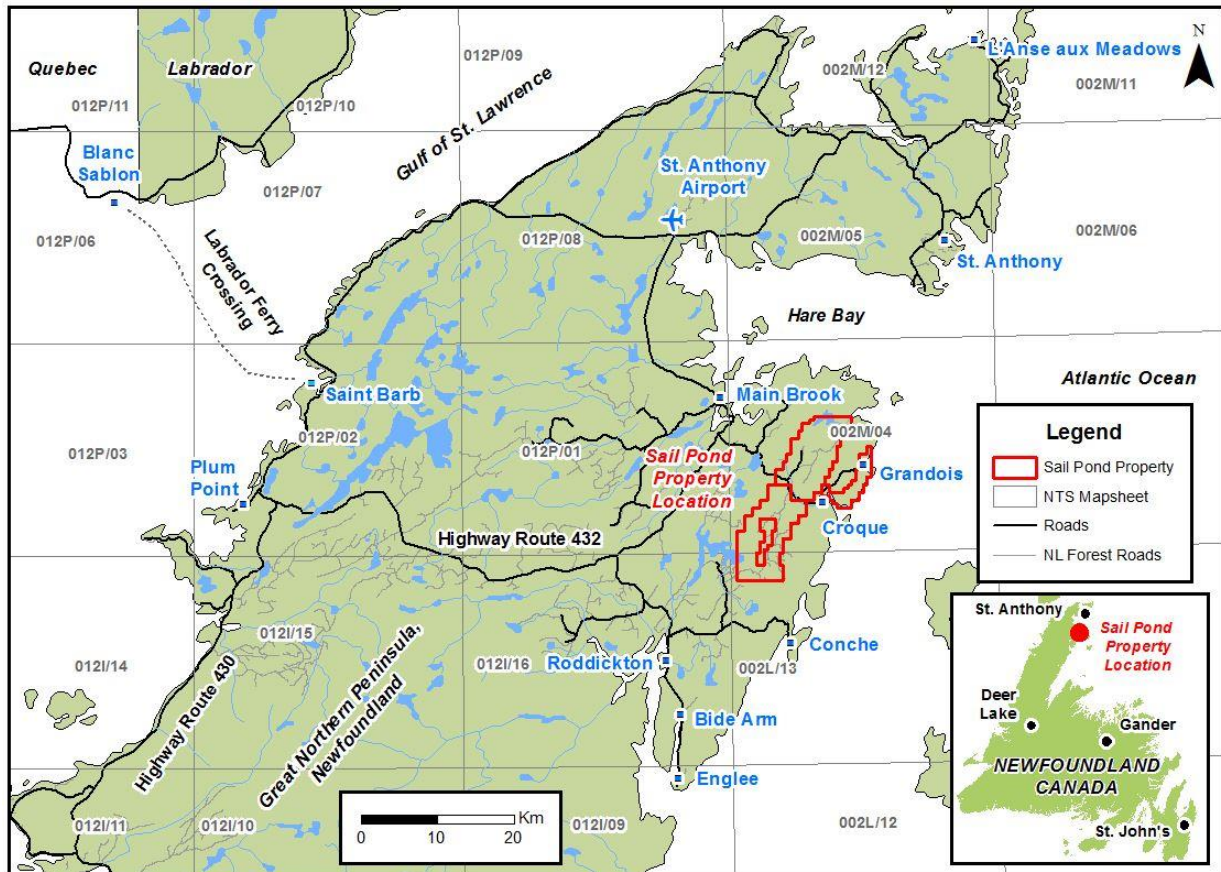


Figure 1: Sail Pond Property Location Map

### 3. Topography and Climate

The property area has a gently rolling topography with a maximum elevation of 230m but typically the altitude is less than 120m. The general topography is characterized by northeast trending ridges and valleys frequently enclosing congruent ponds, rivers and streams. Bogs are common along stream courses. Karstification is prevalent throughout the carbonate stratigraphy. Bedrock exposure is typically less than five percent.

The Great Northern Peninsula has a maritime climate with cool summers and mild winters. The mean annual temperature is approximately 2°C, with the highest July temperature of 15.1°C and a February low average temperature of -10.5°C. Annual precipitation is around 1000 mm with a November maximum of 99.1mm and an April minimum of 58.4mm on average.

### **4. Survey Methods & Procedures**

#### **4.1 Linecutting**

Lloyd King supervised cutting and picketing the grid for the 2018 IP/Res survey. Forty southeast-northwest lines were cut for a total of 104.6 line-km. Stations were located using a hand-held GPS and numbered westward from a baseline at 10000W. Chaining was checked with the IP/Res receiver electrode array during the survey.

Lines were planned to cross the regional structural grain at a high angle. Figure 2 shows the planned grid lines in relation to the local geology and the locations of the trenches, and sampling for geochemical and physical property measurement. The NNE trending anticlinal axis of the White Arm Window is clearly shown by the near symmetry of the exposed carbonate sedimentary rocks. Trenching has concentrated on the western limb of the anticline, east of the contact between carbonate and marine siliciclastic rocks.

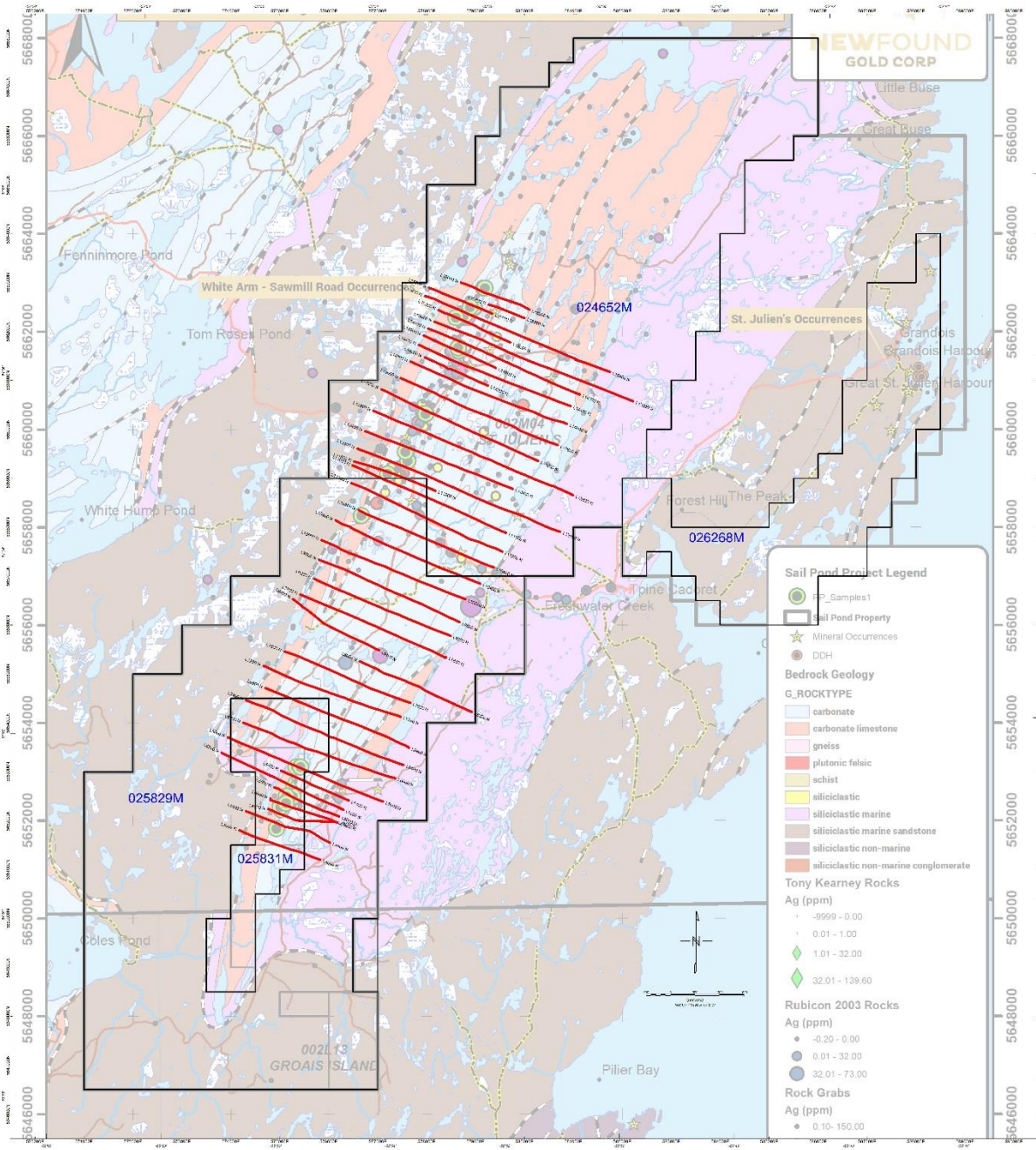


Figure 2: Sail Pond Grid Location Map



### **4.2 IP/Resistivity Surveys**

IP/Resistivity surveys were planned by Intelligent Exploration (IE) and carried out by Abitibi Geophysics (Abitibi). The supervising geophysicist for Abitibi was Catherine Phaneuf P. Geo. The survey progress was monitored by Intelligent Exploration who also QA/QC'd the incoming data and prepared pseudosections for interpretation.

The Abitibi survey team included: David Paquin Lariviere, Crew Chief and Receiver Operator, assisted by Melissa Laviolette, Zachary Paquin, Tobias Cull and Shane Parsons. Jonathan Simoneau directed the logistics and Catherine Phaneuf P. Geo. processed the data and wrote the logistical report with plotting help from Carole Picard. Langis Plante, P. Eng. Provided QA/QC for Abitibi Geophysics.

The field party used an IRIS Instruments (IRIS) ELREC-PRO Receiver and IRIS TIPIX 2200 transmitter (operating at maximum of 2000W). The surveys were completed between August 13, 2018 and October 15, 2018.

Stainless steel rods (80 cm x 2 cm) were used for both current and potential electrodes. Lines were surveyed from east to west with the local current electrode(s) trailing the receiver electrodes. The "infinity" current electrodes were located in a marshy area south of the grid. Potential electrodes were connected to the receiver using 16-gauge insulated stainless steel wire. This wire was also used to connect the current electrodes to the transmitter.

The surveys employed a pole-dipole array. This configuration was chosen because it provides a good depth of penetration and good lateral resolution. Line spacing varied across the grid being 200m in the vicinity of the trenches and increasing to 400m in the open ground between the showings. The surveys ('a' = 50 m and n=1 to 8, 200m or 400m line separation) were more "reconnaissance" in nature covering the 12 km strike length to a typical penetration depth approaching 200m at N=8.

A transmitting pulse width of 2 seconds was used with alternating polarity, separated by a 2 second "off time" during which the chargeability data were collected.

The receiver recorded 8 dipoles at each station initially in arithmetic time-domain mode (Lines 4000N to 5000N). For the remaining lines the receiver recorded in Cole-Cole time domain mode. This mode provided the maximum number of samples early in each decay cycle for calculation of the initial chargeability  $M_{IP}$  in addition to the  $M_x$  bulk chargeability. Multiple readings were averaged at each station until the standard deviation of the average was less than a specified tolerance.

The total survey coverage was 104.6 km. The IP/Resistivity survey coverage is shown in Figure 2 with survey details listed in Table 1.

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LINE	FROM STN	TO STN	TOTAL (METRES)
40+00N	-10850	-9025	1550
44+00N	-10800	-9000	1350
46+00N	-10450	-9800	650
48+00N	-10500	-9000	1150
50+00N	-10500	-9050	1450
52+00N	-11750	-9000	2750
54+00N	-10500	-9000	1500
56+00N	-11800	-8300	3400
60+00N	-11600	-9200	2950
64+00N	-11800	-8300	3100
68+00N	-11550	-8800	3050
72+00N	-11800	-8750	2850
76+00N	-11500	-8650	2750
80+00N	-10000	-7750	2450
84+00N	-11800	-9700	1750
88+00N	-11800	-8400	3200
92+00N	-11600	-8550	3050
96+00N	-11800	-8550	3250
100+00N	-11800	-7300	4150
104+00N	-11800	-8450	3000
108+00N	-11400	-8300	2900
112+00N	-11800	-8300	3150
116+00N	-11800	-8300	3400
118+00N	-11800	-10000	1700
120+00N	-11800	-7250	4150
124+00N	-11800	-8550	2800
128+00N	-11800	-7300	4050
132+00N	-11850	-9000	2900
136+00N	-11500	-8100	3050
140+00N	-11500	-8100	2850
142+00N	-11400	-9850	1400
144+00N	-11500	-8150	3150
146+00N	-11500	-9800	1600
148+00N	-11450	-8000	3650
150+00N	-11400	-6950	4350
152+00N	-11400	-9800	1500
154+00N	-11800	-7700	3950
156+00N	-11800	-9800	2000
158+00N	-11300	-9800	1450
160+00N	-11300	-9800	1250
	TOTAL		104600

104.6 km

Table 1: Sail Pond IP/Resistivity Survey Coverage

Table 1 is simplified from the production log contained in the logistical report from Abitibi Geophysics, Appendix E of this report. Chainage is typically less than the separation of the “from” and “to” stations because open water on the lines resulted in gaps in coverage.

### **5. Data Processing and Presentation**

#### **5.1 IP/Resistivity Surveys**

The IP/Resistivity data were downloaded daily from the Elrec Pro receiver to a portable computer using Prosys II software from IRIS. The resulting instrument dump file (\*.bin) was QA/QC'd edited (spurious readings removed) by Abitibi. The clean .bin files were then exported to a Geosoft Oasis Montaj® Database file (\*.gdb) on a line by line basis. The edited .bin and .gdb files were emailed to IE for additional QA/QC review and processing as the surveys progressed.

IE re-processed the .gdb file using the Geosoft OM IP module. The IP Module automatically calculates the apparent resistivities in ohm-m from the current, primary voltage and electrode locations for each measurement. The IP module also converts the twenty normalized secondary voltages (in mV/V) into a single array channel. A separate channel was created to store the average IP value (Mx Chargeability) of the 12 through 15 time slices (560 to 1020 msec) when in Cole-Cole time-domain mode and 5 through 10 time slices (560 to 1040 msec) when in arithmetic time-domain mode.

IE prepared stacked pseudosections of apparent resistivity and chargeability for correlation from line to line. N=2 (corresponding to a depth of about 50m) values were contoured on geo-referenced (NAD27 Datum) plans. The sections and plans thus present a three-dimensional representation of the distribution of measured Chargeability and Resistivity at Sail Pond. This approach permits direct interpretation of the actual data without recourse to inverse modelling. Stacked pseudosections are presented in Plates 3 through 6, of Appendix D of this report and discussed in the Geophysical Results section that follows.

### 6. Geophysical Results

#### 6.1 IP/Resistivity Surveys

The results of the IP/Resistivity surveys are presented as plan maps and stacks of pseudosections for discussion. The plan maps are plotted for the second dipole (N=2) for which the receiving dipole is about 100m from the current injection point. Conventionally the penetration for this dipole approaches half of “N” x “a” spacing or something less than 50m. This depth is chosen to give an overall picture of the distribution of chargeability and resistivity using a dipole that usually registers a strong signal with little noise degradation (high Vp near the current electrode) but one where the current path remains sufficiently deep that the response is not compromised by surface effects like conductive swampy overburden.

Data are also presented as a set of stacked pseudosections built up from all of the dipoles measured at each station on a line, assuming that dipoles farther from the current injection point will sample a larger volume, involving a deeper current path. Depths can thus be directly interpreted from the chargeability and resistivity data. Correlations from line to line can be made using the stacked pseudosections. It must be remembered that the line spacing on the Sail pond grid varies from 200m to 400m so that correlations across the intervening distances must involve caution. Even with this limitation the pseudosections provide a good idea of whether anomalies persist across multiple lines forming an internally consistent pattern or are more likely noise or data artefacts on a single line.

Figure 3 presents the N=2 chargeability plan map. Gridding parameters have been chosen to provide a continuous interpolation of chargeability across gaps in the survey where data could not be obtained because of the presence of open water. The values of chargeability presented are calculated using the residual voltages at times between about 560 milliseconds and 1020 milliseconds after the interruption of the current. Historically, this is the timing that has been used to eliminate noise from electromagnetic effects early in the decay time but still early enough for the data to have a high signal to noise ratio. Other parts of the decay spectrum can also be plotted. For example, the early part of the decay spectrum corresponding to the decay of charge from fine grained mineralization can sometimes be separated from the longer decay of massive sulphide mineralization. The 560-1020 ms window offers a good compromise to characterize the anomalies permitting comparison with other IP data in the literature.

### 6.2 Chargeability Anomalies

Chargeability anomalies at Sail Pond present a nearly symmetrical pattern of strike-parallel anomalies trending north-northeast, reflecting the overall structure of the White Arm Window Anticline.

Chargeability anomalies can be recognized in four groups on the N=2 map:

- 1) Anomalous chargeability in the south centre of the grid from L4000N to L5400N
- 2) Chargeability along a contact on the western boundary of almost the entire grid
- 3) A corresponding contact zone to 2) but near the east limb of the anticline
- 4) A broad anomaly in the centre of the grid between L8800N and L12000N

1. The southern central anomaly was not closed by the present survey but it shows a strike-parallel band of conductivity that appears to correlate with a contact between differing carbonate units shown on the geological map. A peak in the anomaly occurs on Line 4000N where it has been targeted (1) for ground follow-up. This target extends north of Line 4400N (Target 2) and both anomalies are associated with a resistivity low that extends a kilometer from Line 4000N to Line 5000N.
2. A chargeability anomaly extends along the western edge of much of the grid, reaching a maximum in the northwest where the chargeability peak occurs about 100m west (down dip) of the Sail Pond north trench showing (Follow-up targets (11) on Line 14800N to (20) on Line 16000N). Generally, a moderate intensity anomaly that extends for kilometers parallel to the strike of the regional structure can be expected to reflect formational chargeability, for example sulphide bearing black shale units within a sedimentary sequence. At Sail Pond North local peaks in chargeability occur between Line 14600N and Line 15000N that may correlate spatially with a down-dip extension of the mineralization recognized in trenches. A similar peak occurs between Line 15400N and Line 16000N where targets (13-19) have been chosen for ground follow-up.

A similar peak occurs between Line 11600N and Line 12400N, on strike with the southern showings and associated with a contact. A target (7) for ground follow-up on Line 11600N occupies the western flank of a local resistivity high and a second peak (9) occurs on Line 12400N. Both of these targets indicate chargeability associated with a mapped thrust contact, west (down dip?) of the South Showings. Target (5) on Line 9200N is located on the same thrust contact 2.2km to the south. Targets (3 and 4) on Line 6000N and Line 6800N also show local chargeability highs associated with resistivity lows on the flank of a resistivity high.

3. Targets (13-19) are chosen on a chargeability anomaly and local resistivity low on the western flank of a resistivity high. This anomaly occupies the eastern



limb of the White Arm Window anticline mirroring the Group 2) anomalies but lies inboard of the contact as it is currently mapped.

4. A broad chargeability anomaly follows Line 11600N for approximately 600m (Target 8) in the centre of the grid, near the axial plane of the White Arm Window anticline. A strike-extension of the anomaly extends southward to Line 9600N where a local chargeability maximum (Target 6) occurs on the southeastern flank of a resistivity high.

### **6.3 Resistivity Anomalies**

The corresponding N=2 map of Apparent Resistivity is shown in Figure 4 corresponding to a depth of approximately 50m.

A clear resistivity high marks the position of the South showings at the western margin of the grid. This is consistent with the extreme resistivity values measured from silicified samples from the South showing trench.

Resistivity highs are also noted in the center of the grid between Lines 4800N and 10000N. South of Line 8800N this resistivity anomaly is associated with a chargeability low but between Line 8800N and Line 10000N it corresponds to a zone of chargeability.

A resistivity high located between Line 9200N and Line 10000N at the eastern edge of the grid is accompanied by a modest increase in chargeability that is likely a formational response. A northward extension of this zone from Line 11200N to Line 12000N also correlates with modestly elevated chargeability. Typically, chargeability increases somewhat with resistivity in barren rocks and sulphide mineralization is not indicated by these anomalies.

Asymmetrical pattern of resistivity highs lies outside the chargeability maxima in the northern part of the property, which correspond to local strike-parallel resistivity lows on both limbs of the anticline. Formational resistivity lows can be traced south-southwest for at least four kilometers and these probably reflect clastic sediments within the carbonate rocks. There is no flanking resistivity high for most of this range that might indicate local silicification.

### **6.4 Stacked Pseudosections**

Stacked pseudosections of Chargeability and Resistivity are presented in Figures 5 through 8. These permit the depths of the anomalies to be interpreted and also facilitate line-to-line correlations of the anomalies presented in the N=2 plan maps. The depths of the targets interpreted from the pseudosections are included in Table 2 that lists recommended targets for ground follow-up.

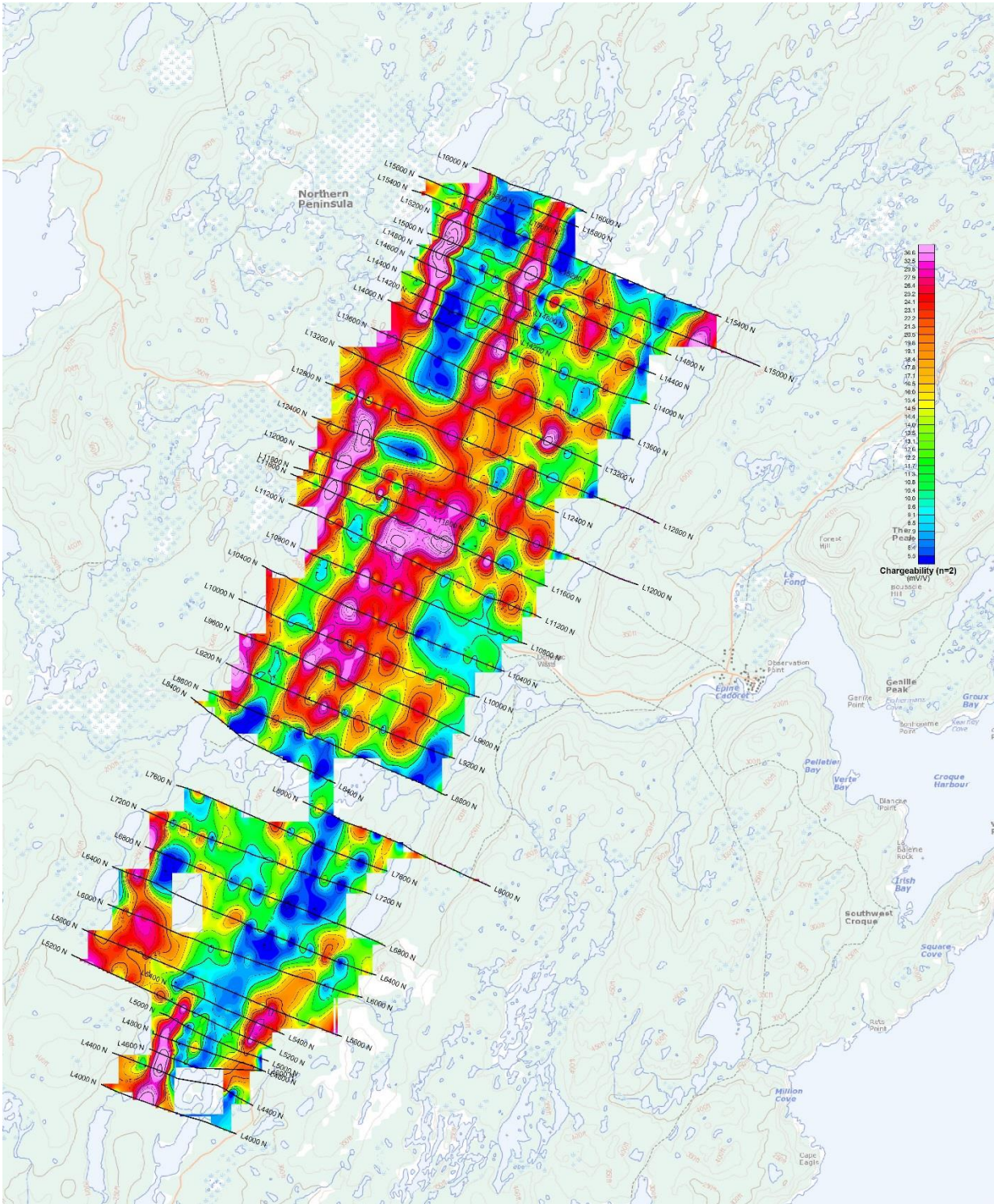


Figure 3: N=2 Chargeability Plan corresponds to a depth of ~50m



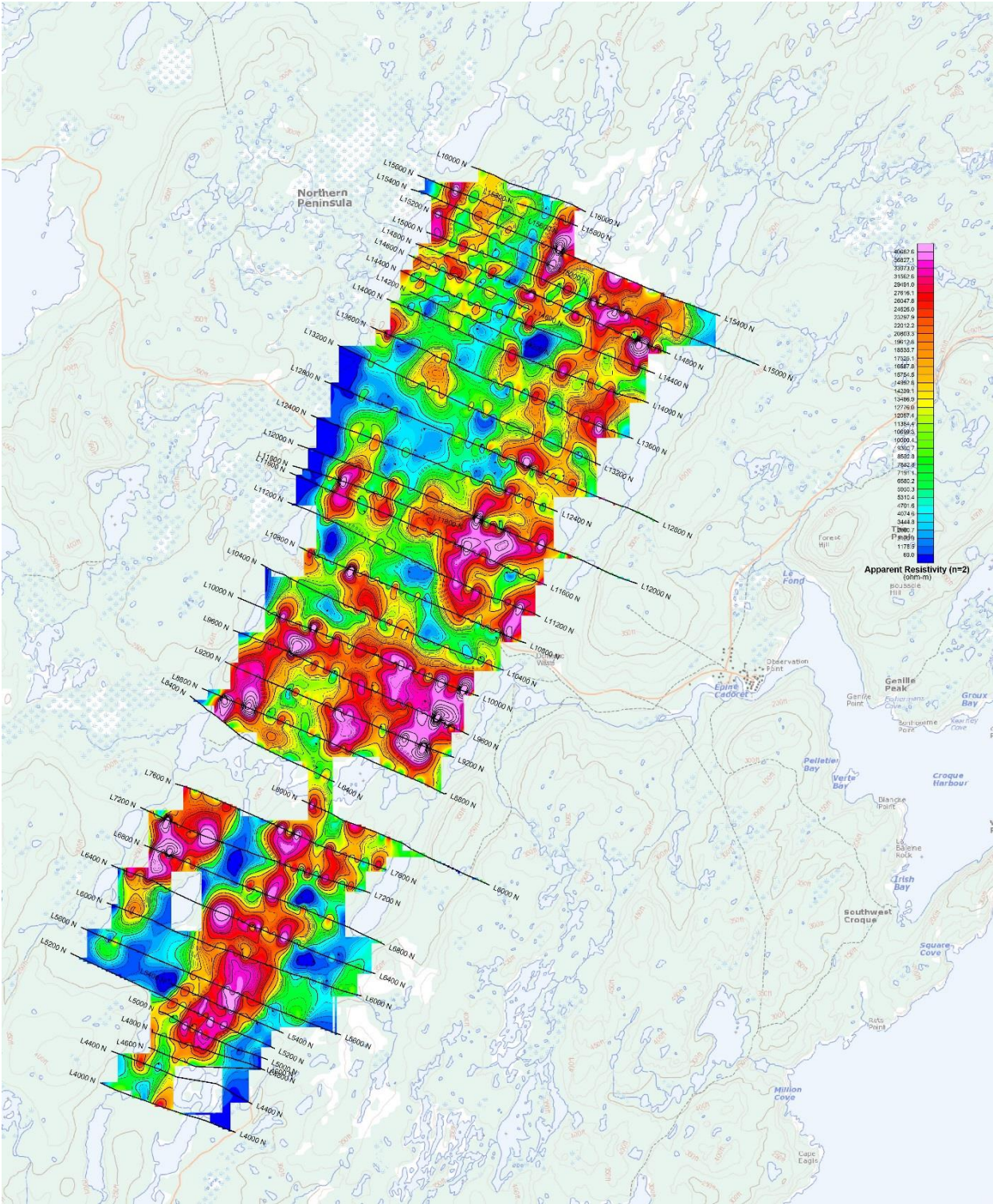
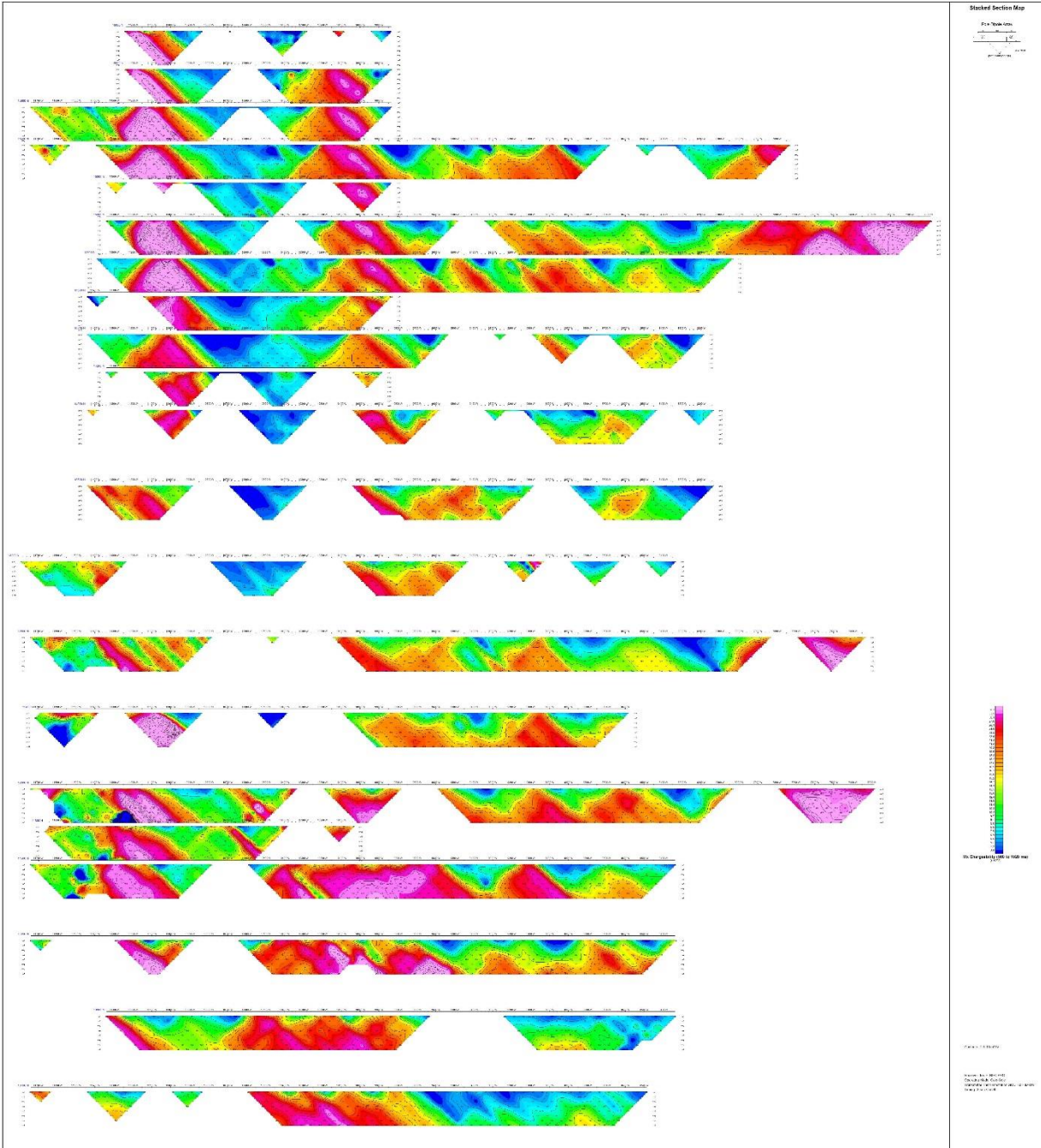


Figure 4: N=2 Apparent Resistivity Plan



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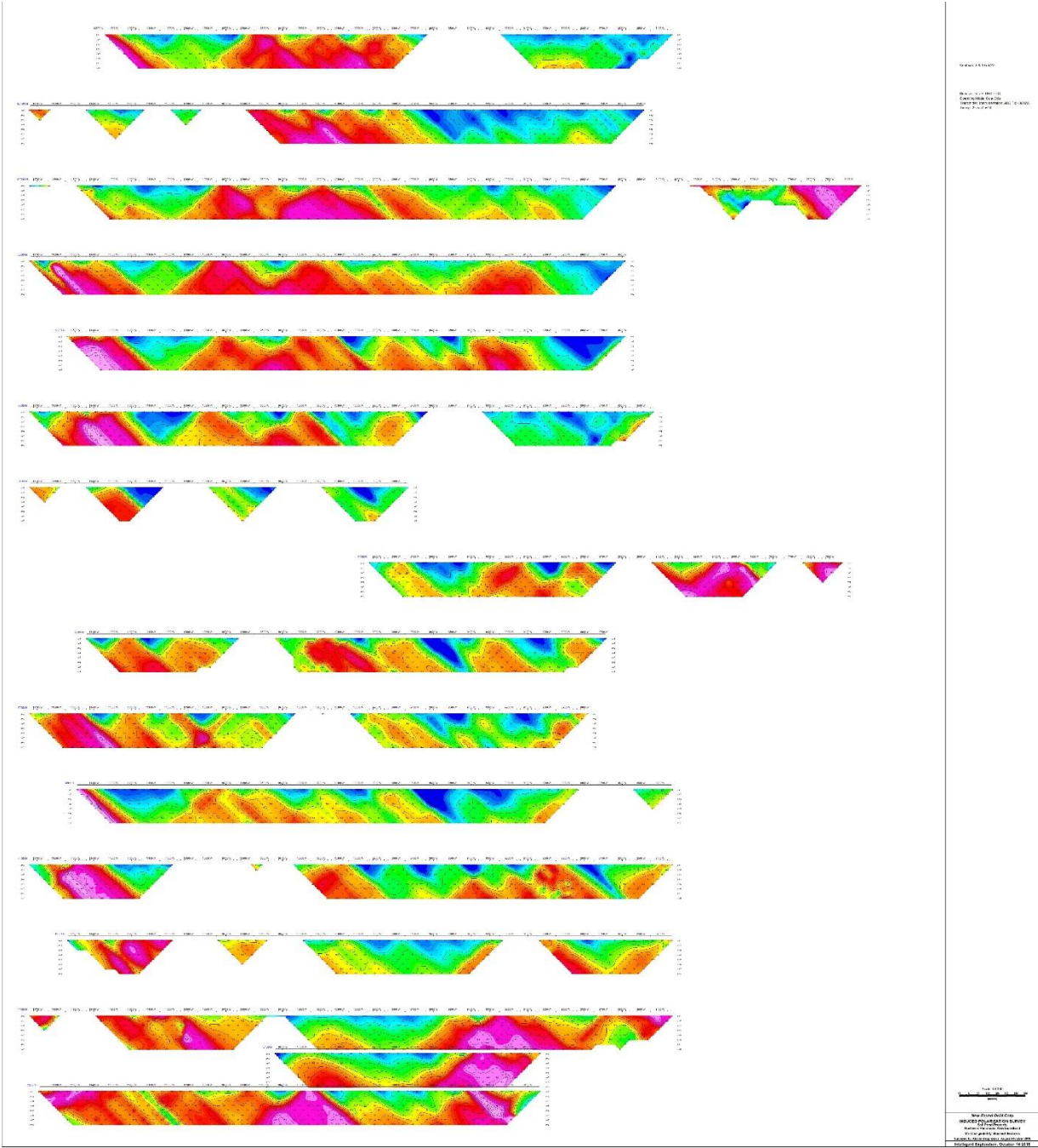


Figure 5: Stacked Chargeability Pseudosections Line 5200N to Line 16000N

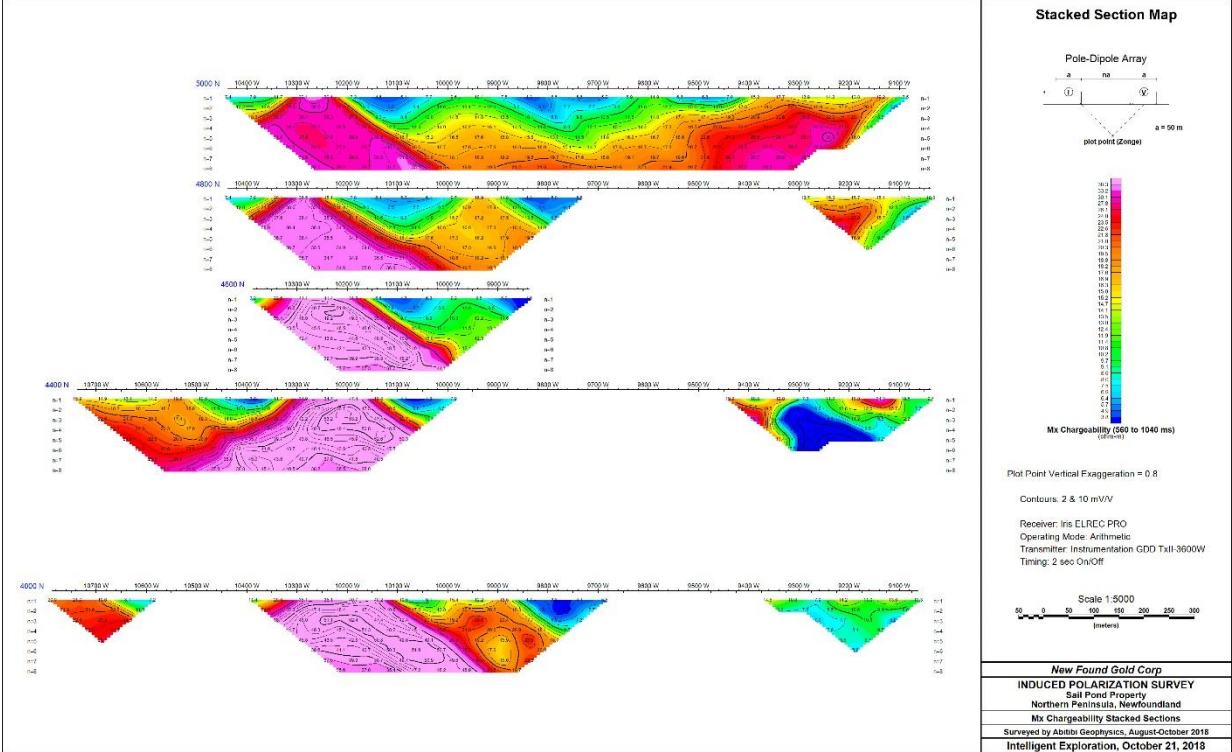
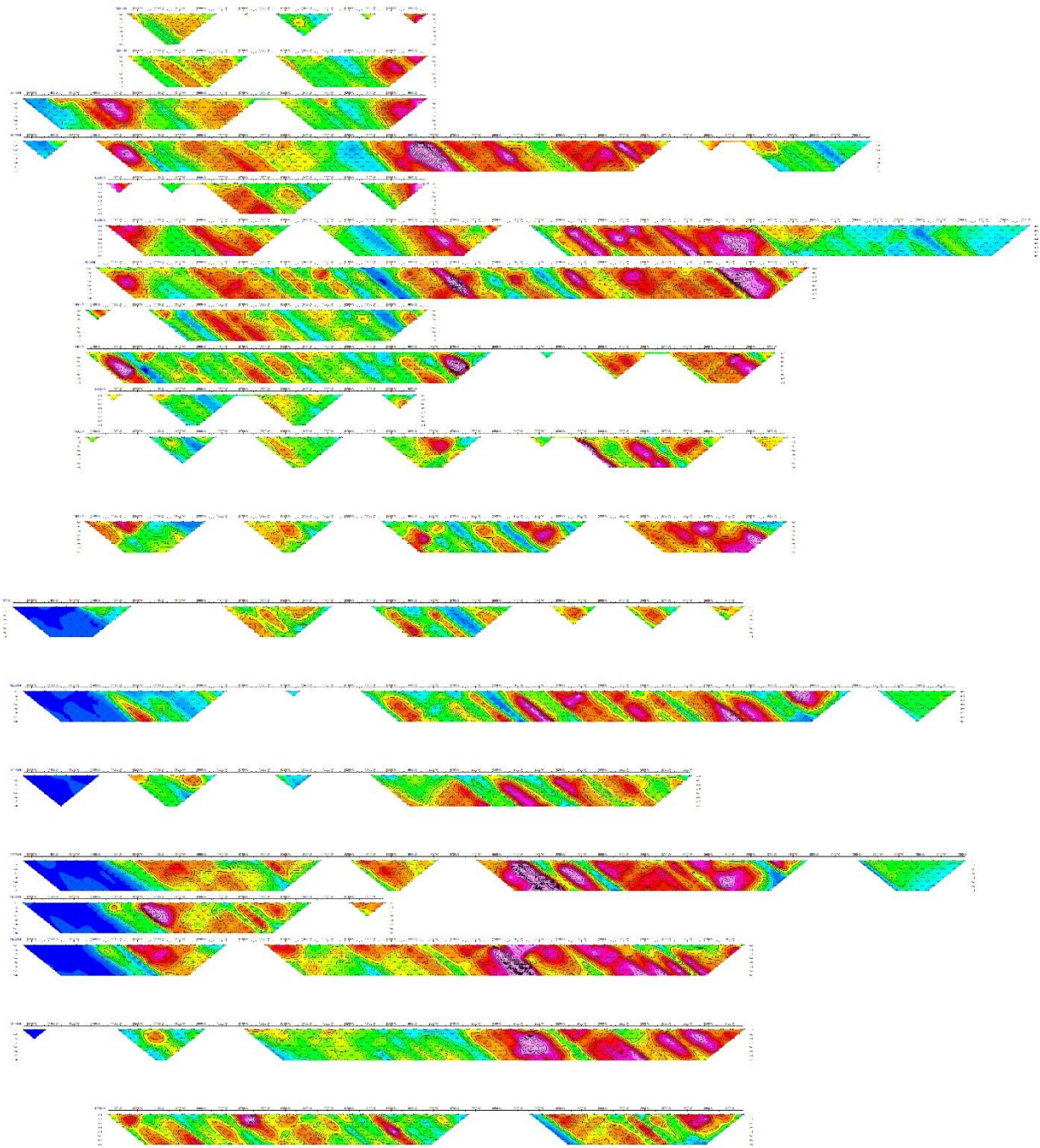


Figure 6: Mx chargeability pseudosections for Line 4000N to Line 5000N



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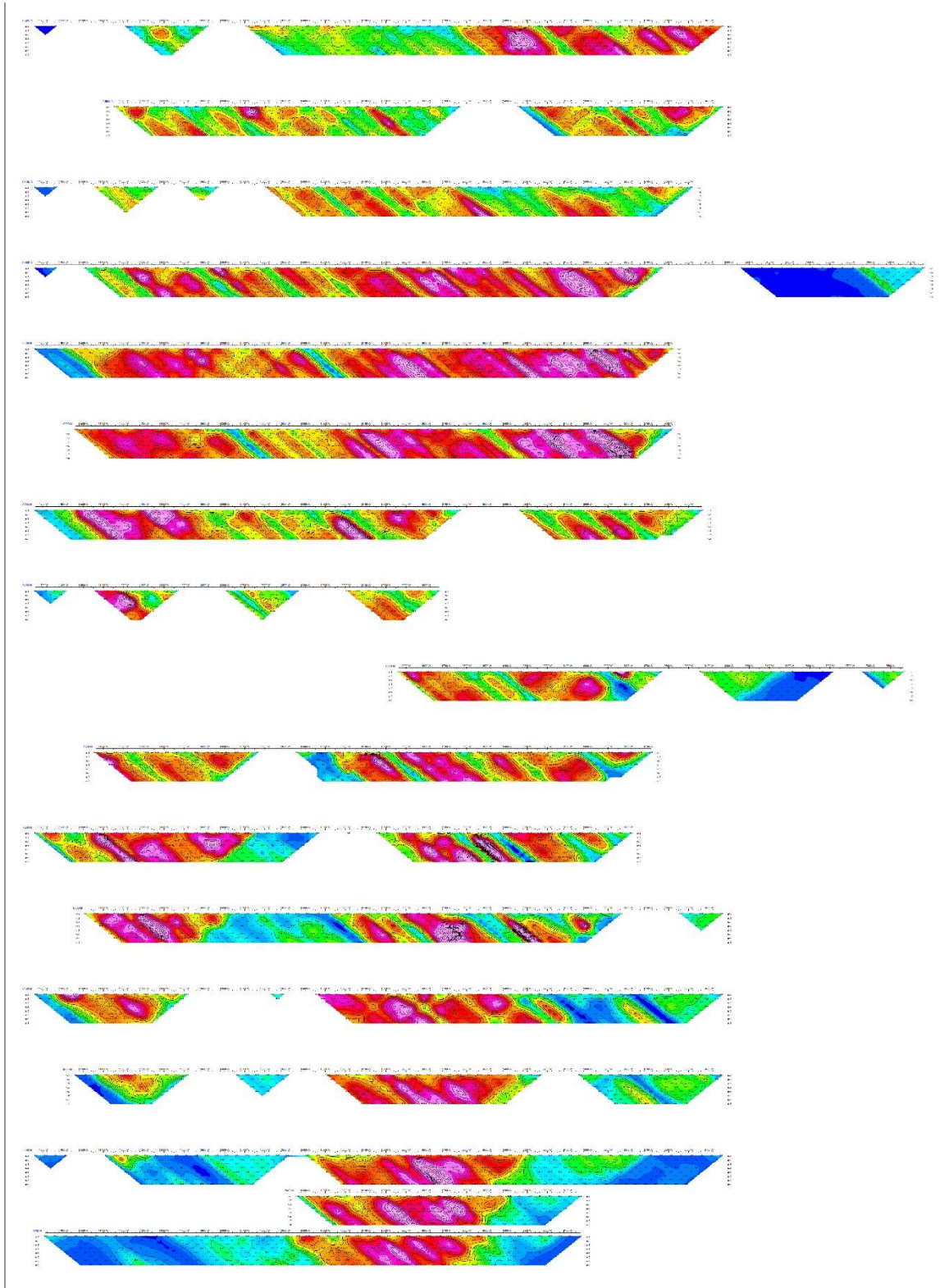


Figure 7: Stacked Resistivity Pseudosections Line 5200N to Line 16000N



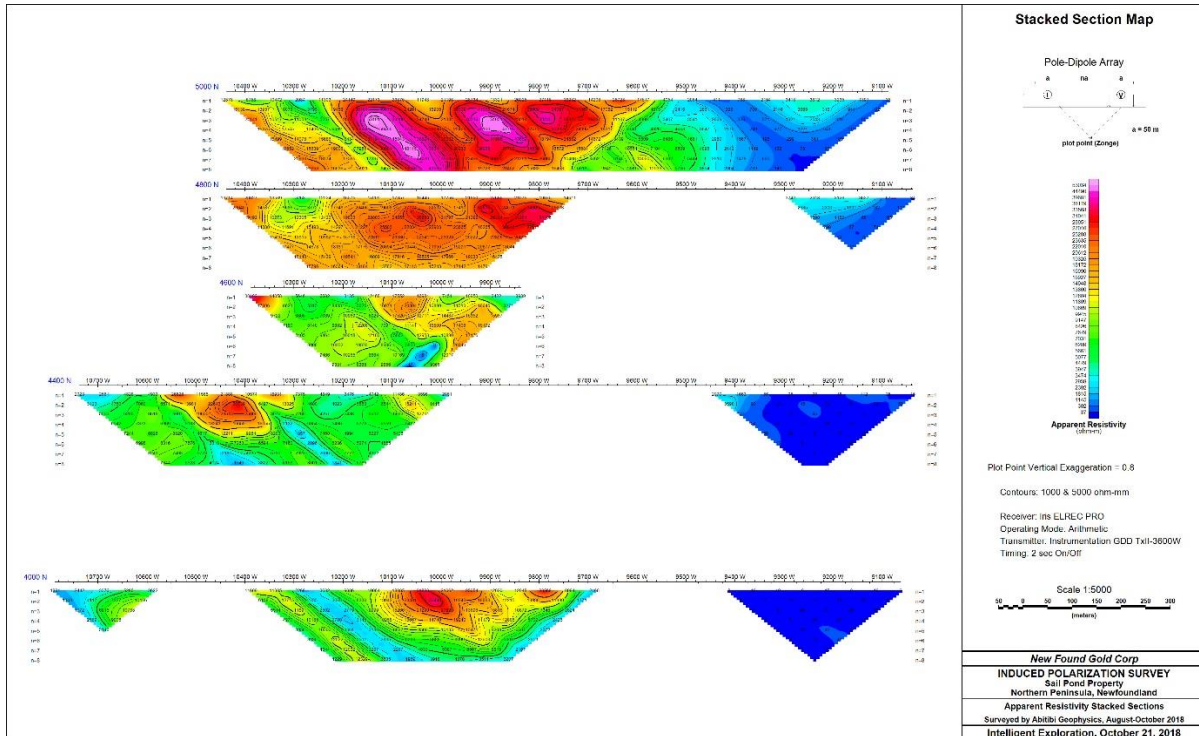


Figure 8: Stacked Resistivity Pseudosections Line 4000N to Line 5000N

## 6.5 Compilation Map

Features interpreted from the plan maps and IP/Resistivity pseudosections have been transferred to a compilation map, Figure 9. The base map is the N=2 chargeability plan corresponding to a depth of about 50 m. Targets for ground follow-up are indicated by yellow symbols on the chargeability trends. Proposed gravity lines are shown in red for the four target zones 1-4 described in Section 6.2.

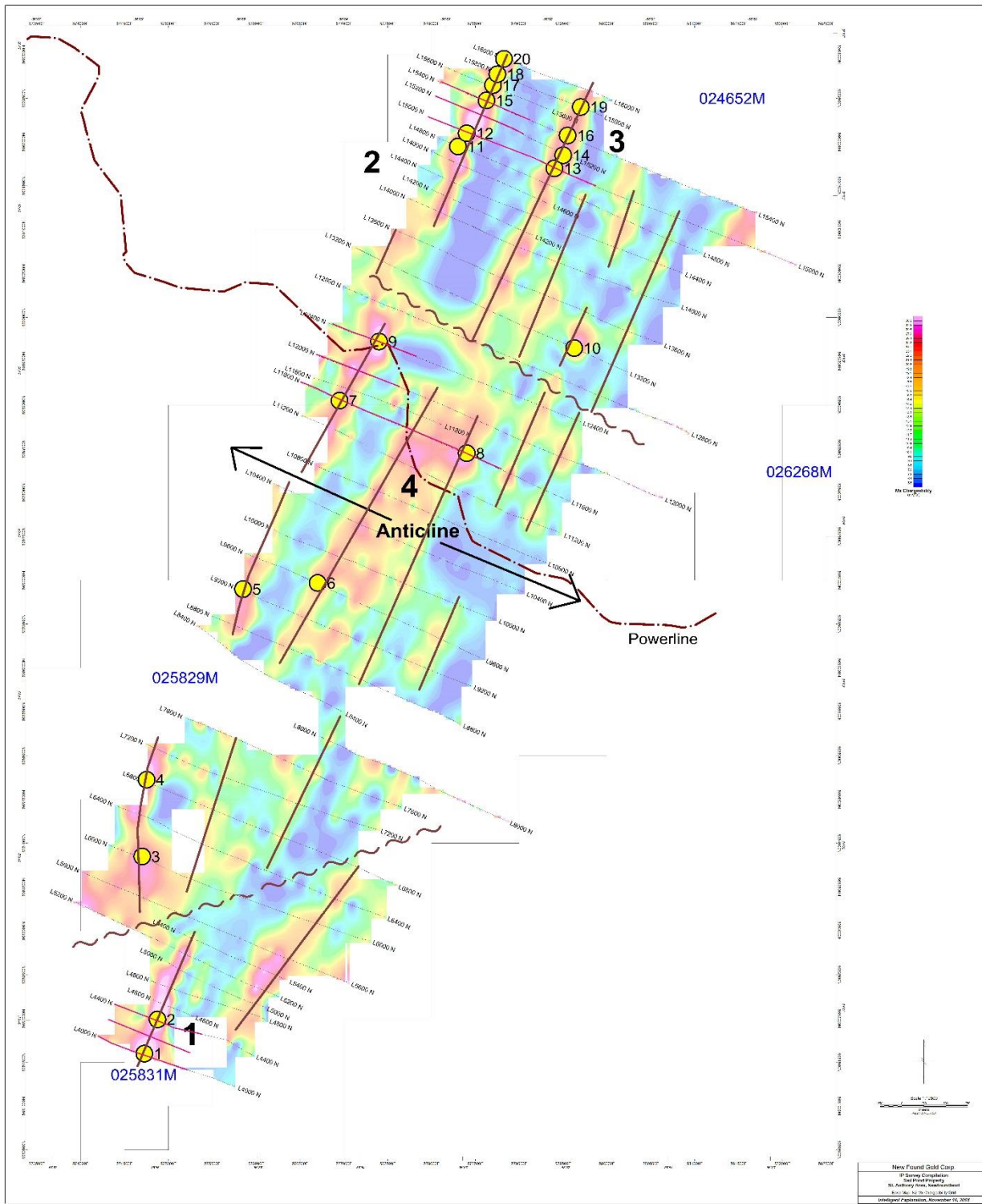


Figure 9: Compilation Map showing Chargeability Anomalies

Interpreted Structure and Targets for Ground Follow-up. The four numbers are the anomalous areas discussed in text.

**Table 2: Targets for Ground Follow-up**

SAIL POND IP/RES: Targets for Ground Follow-up						
	Line	Station	Dipole	Easting	Northing	Anomaly type
1	4000	10200	N1-N8	574725	5651600	CHG N2 High
2	4400	10250	N1-N8	574875	5651990	CHG N2High, strike extension of No.1
3	6000	11250	N2-N5	574700	5653850	CHG N2 High, western trend
4	6800	11500	N1-N8	574750	5654725	Incomplete EOL CHG high, on trend with No3 at W contact
5	9200	11500	N3-N7	575850	5656900	Incomplete EOL CHG high, on trend with No3 at W contact
6	9600	11650	N3-N8	576700	5656970	N extension of No5, Narrow CHG anomaly at depth
7	11600	11350	N2-N8	576950	5659050	CHG N2 maximum, local max on continuous trend N-S
8	11600	10100	N4-N8	578400	5658450	Very broad 600mCHG anomaly, too deep for surface follow-up
9	12400	11100	N1-N6+	577400	5659725	N end of CHG N2 max. on W contact, possible fault, showings
10	13200	9075	N1-N2	579625	5659650	Single line max., CHG N2 in N-S trend, on strike with geochem.
11	14800	10950	N1-N8	578300	5661950	S end of CHG N2 on strike with showings, W contact
12	15000	11150	N1-N8	578400	5662100	N end of Strong Trend CHG N2 across 7 lines N-S, 3-4 St Wide
13	15000	10050	N1-N4	579400	5661700	Moderate CHG N2 anomaly
14	15200	10125	N1-N5	579500	5661850	2-3 Station CHG anomaly EOL, incomplete, geochem.
15	15400	11150	N1-N8	578625	5662475	Broad CHG anomaly, correlates with showings
16	15400	10100	N1-N8	579550	5662075	Narrow N extension of central anomaly trend
17	15600	11150	N1-N8	578700	5662650	Broad CHG anomaly, correlates with showings
18	15800	11200	N1-N8	578750	5662775	Very Strong CHG, EOL incomplete, N extension
19	15800	11200	N1-N7	579700	5662400	2-3 Station CHG anomaly EOL
20	16000	11200	N1-N8	578825	5662950	Strong CHG Anomaly, EOL Incomplete, just W of showings

## 7. Conclusions and Recommendations

The 2018 IP/Resistivity survey has been successful in defining new anomalies that combine the prospective characteristics of the mineralized samples from the Sail Pond showings. These targets are indicated on the compilation map by the combination of a high chargeability generally flanking a zone of elevated resistivity. These locations are part of a broadly symmetrical anomaly pattern reflecting the structure of carbonate and clastic sedimentary rocks in the White Arm Window Anticline.

The compilation map indicates 20 targets for ground follow-up and these are also located and described in Table 2. Several of these anomalies occur at the depths sampled by dipoles N>3 where it is unlikely that a surface manifestation will be found. Where the anomalies find support from trenching or analytical results these deeper targets offer good candidates for diamond drilling.

The following work is recommended to further define these targets where the geophysical coverage is either not complete or not definitive and to drill test the anomalies that are adequately defined by the 2018 IP survey and previous trenching and sampling.

### **7.1 Additional Geophysical Work**

1) Anomaly 1 provides two targets for follow-up but this anomaly extends at least to the southern limit of the present survey. Additional IP/Res coverage is recommended to extend the grid southward, closing this anomaly before a drill target is chosen. Similarly, the anomalies on the western ends of lines 5200N through 6800N are also not closed because lines could not be extended because of open water. A winter program of IP/Res is recommended to extend these lines over ice.

2) Anomaly 2 covers much of the western limit of the present grid. Preliminary sampling in the vicinity of these targets was hampered by a lack of outcrop but several shale samples were collected that potentially could contribute to a formational chargeability. It will be necessary to separate formational responses from more local anomalies that indicate mineralization before final drill targets are chosen. The decay spectra of the charge may differ between these two types of chargeability. We recommend that Cole Tau be computed and potted as pseudosections for all of the anomalies so that spectral response can be used to differentiate these sources.

3) 2D inverse models of the chargeability should be calculated for the significant lines where possible drill targets are indicated to tighten the specifications for the drill trajectories.

4) Gravity should be surveyed on each of three lines crossing the more promising anomalies. Gravity data can be interpreted directly in terms of excess mass that can indicate the potential tonnage of massive sulphide deposits. Lines could be spaced 200m and stations collected every 50m to estimate excess mass for the targets at depths greater than 100m shown in Table 2. The gravity survey should be done during the winter when the lakes and bogs are frozen. This work can be combined with a program to extend the IP/Res coverage where this is recommended.

### **7.2 Drill Recommendations**

Targets can be better defined by additional geophysical work before drilling but several drill targets can be recommended where the chargeability anomalies correspond to the extensions of mineralization that is known from trenching or surface geochemical sampling. These are listed in Table 3.

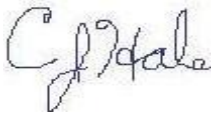
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Table 3: Preliminary DDH Recommendations to test the 2018 IP/Res Anomalies

Target	Line	Station	Depth	Easting	Northing	Collar Line	Collar	Azimuth	Dip	Length	
2	4400N	10175W	N1-N8	574875	5651990	4400N	10250W	115	-60	300	
5	9200N	11500W	N3-N7	575850	5656900	9200N	11757W	115	-60	300	
7	11600N	11350W	N2-N8	576950	5659050	11600N	11400W	115	-60	250	
12	15000N	11150W	N1-N8	578400	5662100	15000N	11200W	115	-60	200	
17	15600N	11150W	N1-N8	578700	5662650	15600N	11200W	115	-60	200	
									Total	Meters	1250

We would be pleased to answer any questions that may arise regarding the survey, its interpretation or the recommended targets.

Respectfully submitted,



Christopher J. Hale Ph. D., P. Geo.  
*Partner, Intelligent Exploration*



John Gilliatt B. Sc., P. Geoph., P. Geo..  
*Partner, Intelligent Exploration*

## **8. References**

Hale C. J. and John Gilliatt, 2018 Physical Property Measurements: Sail Pond Project Unpublished memo to Mr. P. Dimmell, New Found Gold Corporation.

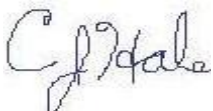
Piercy, Stephen, 2018, NI 43-101 Technical Report on the Sail Pond Project, Great Northern Peninsula, Newfoundland, Canada (Draft) for Altius Resources Inc and Newfoundland Gold Corp.

## **9. Statements of Qualifications**

I, Christopher James Hale, declare that:

1. I am a geoscientist with residence in Campbellford, Ontario and presently employed as a partner of Intelligent Exploration of Campbellford, Ontario.
2. I obtained a B. Sc. in Earth and Planetary Sciences from Erindale College, University of Toronto in 1974, an M. A. in Geology from the University of California, Santa Barbara in 1978 and a Ph. D. from the University of Toronto in 1987. From 1984 to 1996 I held faculty appointments at McMaster University (1984-1990) and the University of Toronto (1989-1996) teaching Geophysics, Exploration Geophysics, and Geology while researching applications of Rock Magnetism and Paleomagnetism to problems in Economic and Structural Geology.
3. I am a registered as Professional Geoscientist (P. Geo., #1394) with the Association of Professional Geoscientists of Ontario and a Professional Geoscientist (P. Geo.) with the Association of Professional Engineers and Geoscientists of Newfoundland and Labrador.
4. I have practiced my profession in Canada for 44 years.
5. I am a member of the Canadian Exploration Geophysical Society.
6. The statements made in this report represent my professional opinion based on my consideration of the information available to me at the time of preparing this report.

Campbellford, Ontario  
November 14, 2018



C. J. Hale, Ph. D., P. Geo.  
Partner  
Intelligent Exploration



## **I.E. Intelligent Exploration**

I, John Gilliatt, declare that:

1. I am a geophysicist with residence in Guelph, Ontario and presently employed in this capacity as a partner of Intelligent Exploration of Campbellford, Ontario.
2. I obtained a Bachelor's Degree with Specialization in Geophysics from the University of Alberta in 1986.
3. I am a registered as Professional Geoscientist (P.Geo., #1624) with the Association of Professional Geoscientists of Ontario and a Professional Geophysicist (P. Geoph., #M44967) with the Association of Professional Engineers, Geologists and Geophysicists of Alberta.
4. I have practiced my profession in Canada for 29 years since graduation.
5. I am a member of the Canadian Exploration Geophysical Society (KEGS) and the Prospectors and Developers Association of Canada.
6. The statements made in this report represent my professional opinion based on my consideration of the information available to me at the time of preparing this report

Guelph, Ontario  
November 14, 2018



John Gilliatt, B.Sc., P. Geo  
Partner  
Intelligent Exploration

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### **APPENDIX A: List of Personnel and Contractors**

The following contractors worked on this project:

<u>Name &amp; Address</u>	<u>Work Performed</u>
Intelligent Exploration (Campbellford, ON)	Project Supervision, Data Processing and Reporting
Abitibi Geophysics Services (St. John's, NL)	IP/Resistivity Survey

### **APPENDIX B: Digital Data and Report DVD**

The following digital information is provided on a DVD with this report:

- 1) Geosoft database of the IP/Resistivity survey data (.GDB)
- 2) Geosoft grid files (.GRD)
  - N=2 Apparent Resistivity (n2\_Res\_SP IP FINAL\_Oct21'18.grd)
  - N=2 Mx Chargeability (n2\_Mx\_SP IP FINAL\_Oct21'18.grd)
- 3) Plates as Geosoft Map Files (.MAP) and as PDF's (.PDF)
- 4) Report (.PDF)

The New Found Gold IP/Resistivity survey data are archived in two separate databases as follows:

1. IE\_18N060 IP QAQC L4000-5000N.gdb, containing Lines 4000N to 5000N with receiver operating in arithmetic mode.
2. IE\_181015\_IP-PD QAQC L5200-16000N\_Cole-Cole.gdb containing Lines 5200N to 16000N with receiver operating in Cole-Cole mode.

The databases are formatted as follows:

<b><u>Column</u></b>	<b><u>Units</u></b>	<b><u>Description</u></b>
T1X	m	1 <sup>st</sup> Current Electrode Position (On Line)
T2X	m	2 <sup>nd</sup> Current Electrode Position (Infinity)
R1X	m	1st Potential Electrode Position
R2X	m	2nd Potential Electrode Position
I	A	Primary Voltage
ResMeas	Ohm-m	Measured Apparent Resistivity
ResCalc	Ohm-m	Calculated Apparent Resistivity
Vp	mV	Primary Voltage
IP	mSec	IP array channel (for Elrec Pro Receiver = 20 time windows)
AG_DEV	%	Standard Deviation (Quality Factor in %)
AG_CONFIDENCE	%	Confidence Level of Measurement
RsCheck	kOhm	Ground Resistance
IP_Avg	mV/V	Chargeability value averaged over the selected time window
Sp	mV	Self Potential
QC		Quality Control for IP_Avg Channel ("1" accept or "*" reject)
QC_Res		Quality Control for ResCalc Channel ("1" accept or "*" reject)
Time	mSec	Current Injection Time

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Stack		Number of stacks performed
NAME		Line Number
RxBat	V	Receiver Battery Level
Temp	°C	Receiver Internal Temperature
Date	yyyy.m	Date (Year/Month) of Measurement
DayTime	mm.ss	Time of Measurement
N		Dipole Number
Stn	m	Station position on pseudosections
X	m	Same as "Stn"
Y	m	Line Number
Z	m	Depth position on pseudosections
X_NAD27	m	Easting of Station position in UTM (NAD27) Coordinates
Y_NAD27	m	Northing of Station position in UTM (NAD27) Coordinates

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### **APPENDIX C: Instrument Specification Sheets**

# IRIS INSTRUMENTS

## ELREC Pro



*ELREC Pro unit with its graphic LCD screen*

**10 CHANNELS**

**IP RECEIVER FOR**

**MINERAL EXPLORATION**

- 20 programmable chargeability windows
- High accuracy and sensitivity
- Full wave record

**ELREC Pro:** this new receiver is a new compact and low consumption unit designed for high productivity Resistivity and Induced Polarization measurements. It features some high capabilities allowing to work in any field conditions.

**Reception dipoles:** the ten dipoles of the ELREC Pro offer an high productivity in the field for dipole-dipole, gradient or extended poly-pole arrays.

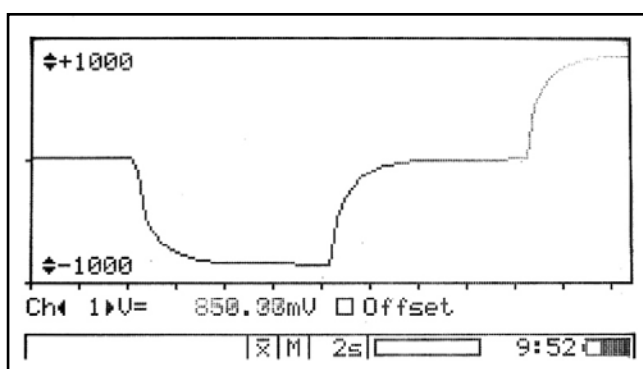
**Programmable windows:** beside classical arithmetic and logarithmic modes, ELREC Pro also offers a Cole-Cole mode and a twenty fully programmable windows for a higher flexibility in the definition of the IP decay curve.

**IP display:** chargeability values and IP decay curves can be displayed in real time thanks to the large graphic LCD screen. Before data acquisition, the ELREC Pro can be used as a one channel graphic display, for monitoring the noise level and checking the primary voltage waveform, through a continuous display process.

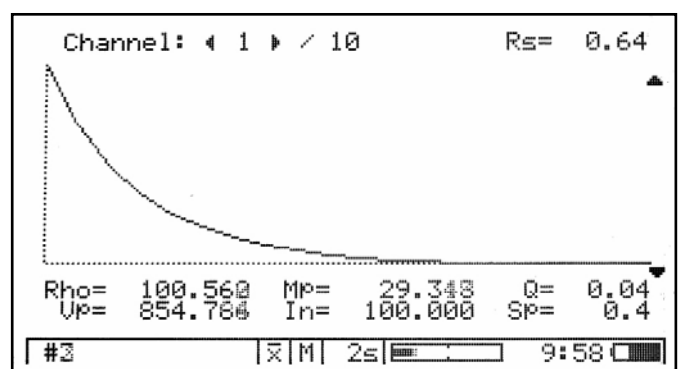
**Internal memory:** the memory can store up to 44 800 readings, each reading including the full set of parameters characterizing the measurements. The data are stored in flash memories not requiring any lithium battery for safeguard.

**Switching capability:** thanks to extension *Switch Pro* box(es) connected to the ELREC Pro unit, the 10 reception electrodes can be automatically switched to increase the productivity in-the-field.

**Full wave record:** as an option, the Elrec Pro can record all the samples every ten milliseconds (100 Hz sampling frequency). This allows advanced signal processing, remote reference, correlation with perpendicular dipoles... All data is time stamped, 8 recording hours can be stored in the internal memory ( for one single channel). High resolution for time stamp is available through an external GPS providing PPS signal ( 1 pulse/ sec) . All memory can be transferred to a SD card directly on the field.



*Display of the full waveform signal*



*Display of numeric values and IP decay curve during acquisition*

# IRIS INSTRUMENTS

## INDUCED POLARISATION TRANSMITTER



- Ease of use
- Robustness

- 1800 V output voltage
- Standard motor generator

### TIPIX MAJOR BENEFITS

- TIPIX is a **2.2-kW transmitter** designed for IP surveys and for deep resistivity soundings.
- It is microprocessor controlled for **ease of operation** and protection against misuse.
- A four-line alphanumeric display is provided for the simultaneous indication **of all output parameters**: output current, output voltage, contact resistance and output power are continuously displayed
- A **standard motor generator** can be used to power the TIPIX

### TIPIX MAIN FEATURES

- The TIPIX will generate up to **1800 volts** for work in high resistivity areas and up to **13 amperes** for low resistivity regions.
- The TIPIX is designed **for ease of operation**. Four buttons on the front panel are used to select the desired options and to increase or decrease the current.
- **Limit values of voltage, current or power** can be introduced.
- **Messages and warnings** are displayed in case of problem or malfunction, for an easier identification of a trouble and a quicker instrument servicing.

# TIPIX

## RESISTIVITY & INDUCED POLARISATION 2.2 kW POWER TRANSMITTER

### TIPIX TECHNICAL SPECIFICATIONS

- Output Power: 2200 W maximum
- Output Voltage: 1800 V maximum
- Output Current: 13 amperes maximum

#### TIME DOMAIN MODE:

- Waveforms: [ON+,OFF,ON-,OFF], [ON+,ON-]
- Automatic circuit opening in OFF time.
- Preprogrammed ON times from 0.5, 1, 2, 4, and 8 seconds ON pulse duration.
- Display: Four-line alphanumeric liquid crystal display.
- Simultaneous display of output current, output voltage, contact resistance, and output power
- Protection:
  - short circuit at 20 ohms,
  - open loop at 100 000 ohms,
  - thermal,
  - input overvoltage
  - input undervoltage.
- Emergency STOP push button
- Possibility of gps synchronisation.

#### GENERAL FEATURES:

- Dimensions (h w d): 41 x 32 x 24 cm.
- Weight: 24 kg
- Power Source: 90 to 260 VAC, 50 or 60 Hz, single phase
- Operating temperature: -30 to +50 °C.





# ELREC Pro

## FIELD LAY-OUT OF AN ELREC PRO UNIT

The ELREC Pro unit has to be used with an external transmitter, such as a VIP transmitter.

The automatic synchronization (and re-synchronization at each new pulse) with the transmission signal, through a waveform recognition process, gives an high reliability of the measurement.

Before starting the measurement, a grounding resistance measuring process is automatically run ; this allows to check that all the electrodes are properly connected to the receiver.

Extension *Switch Pro* box(es), with specific cables, can be connected to the ELREC Pro unit for an automatic switching of the reception electrodes according to preset sequence of measurements ; these sequences have to be created and uploaded to the unit from the ELECTRE II software.



*Extension Switch Pro box able to drive 24 - 48 - 72 or 96 electrodes*

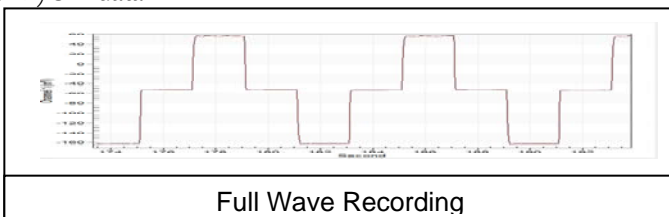
The use of such boxes allows to save time in case of the user needs to measure more than 10 levels of investigation or in case of large 2D or 3D acquisition.

## DATA MANAGING

PROSYS software allows to download data from the unit. From this software, one has the opportunity to visualize graphically the apparent resistivity and the chargeability sections together with the IP decay curve of each data point. Then, one can process the data (filter, insert topography, merge data files...) before exporting them to "txt" file or to interpretation software:

TOMOLab, RES2DINV or X2IPI for pseudo-section inversion to true resistivity (and IP) 2D section.

ERTLab or RES3DINV for inversion to true resistivity (and IP) 3D data.



Full Wave Recording

## FEATURES

### TECHNICAL SPECIFICATIONS

- Input voltage:  
Max. input voltage: 15 V  
Protection: up to 800V
- Voltage measurement:  
Accuracy: 0.2 % typical  
Resolution: 1  $\mu$ V  
Minimum value: 1  $\mu$ V
- Chargeability measurement:  
Accuracy: 0.6 % typical
- Induced Polarization (chargeability) measured over to 20 automatic or user defined windows
- Input impedance: 100 M $\Omega$
- Signal waveform: Time domain (ON+,OFF,ON-,OFF) with a pulse duration of 500 ms - 1 s - 2 s - 4 s - 8 s
- Automatic synchronization and re-synchronization process on primary voltage signals
- Computation of apparent resistivity, average chargeability and standard deviation
- Noise reduction: automatic stacking number in relation with a given standard deviation value
- SP compensation through automatic linear drift correction
- 50 to 60Hz power line rejection
- Battery test

### GENERAL SPECIFICATIONS

- Data flash memory: more than 44 800 readings
- Possibility of data storage on external SD card with a capacity of 7 000 000 readings (option)
- USB and serial link RS-232 for data download
- Power supply: internal rechargeable 12V, 7.2 Ah battery ; optional external 12V standard car battery can be also used
- Weather proof
- Shock resistant fiber-glass case
- Operating temperature: -20 °C to +70 °C
- Dimensions: 31 x 21 x 21 cm
- Weight: 6 kg

### FULL WAVEFORM RECORDING

- Available in option , storage of all time series every 10 milli seconds, up to 10 simultaneous channels
- Samples are time stamped , accurate external GPS with PPS allows 250 micro seconds resolution
- High resolution chargeability : 200 windows for a 2 sec pulse
- Up to 2 860 000 stored samples : 8 hours for 1 channel
- Signals can be processed on pc with FullWaveViewer program

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### **APPENDIX D: Plates**

## **I.E.** Intelligent Exploration

### **Appendix E: Abitibi Geophysics Logistical Report**

**Memo**    May 5, 2019

To:            New Found Gold Corp.  
Attention:    Mr. Greg Matheson, President  
From:         C. J. Hale & John Gilliatt  
Re:            Results of 2019 Gravity Survey, Sail Pond Project

## **1. Introduction**

We have reviewed the results of the 2019 Gravity Survey on Sail Pond carried out by Rob McKeown of MES Geophysics Inc (MES), of St-John's. We were particularly interested in comparing IP Survey results with any gravity anomalies to see whether the gravity data might indicate a coincident mass excess that would warrant follow-up by drilling.

## **2. Survey System and Procedures**

Mr. McKeown used a Scintrex CG-5 Gravimeter to conduct the Gravity Surveys. The measurements were made at 50m intervals along each of the three lines crossing each of three significant IP anomalies. These three IP anomalies are labeled South, Central and North Zones on Figure 1. A Trimble differential GPS system was used to measure the elevations at each station. A probe was used to measure the snow depth at each station and in some cases this was more than 2 metres.



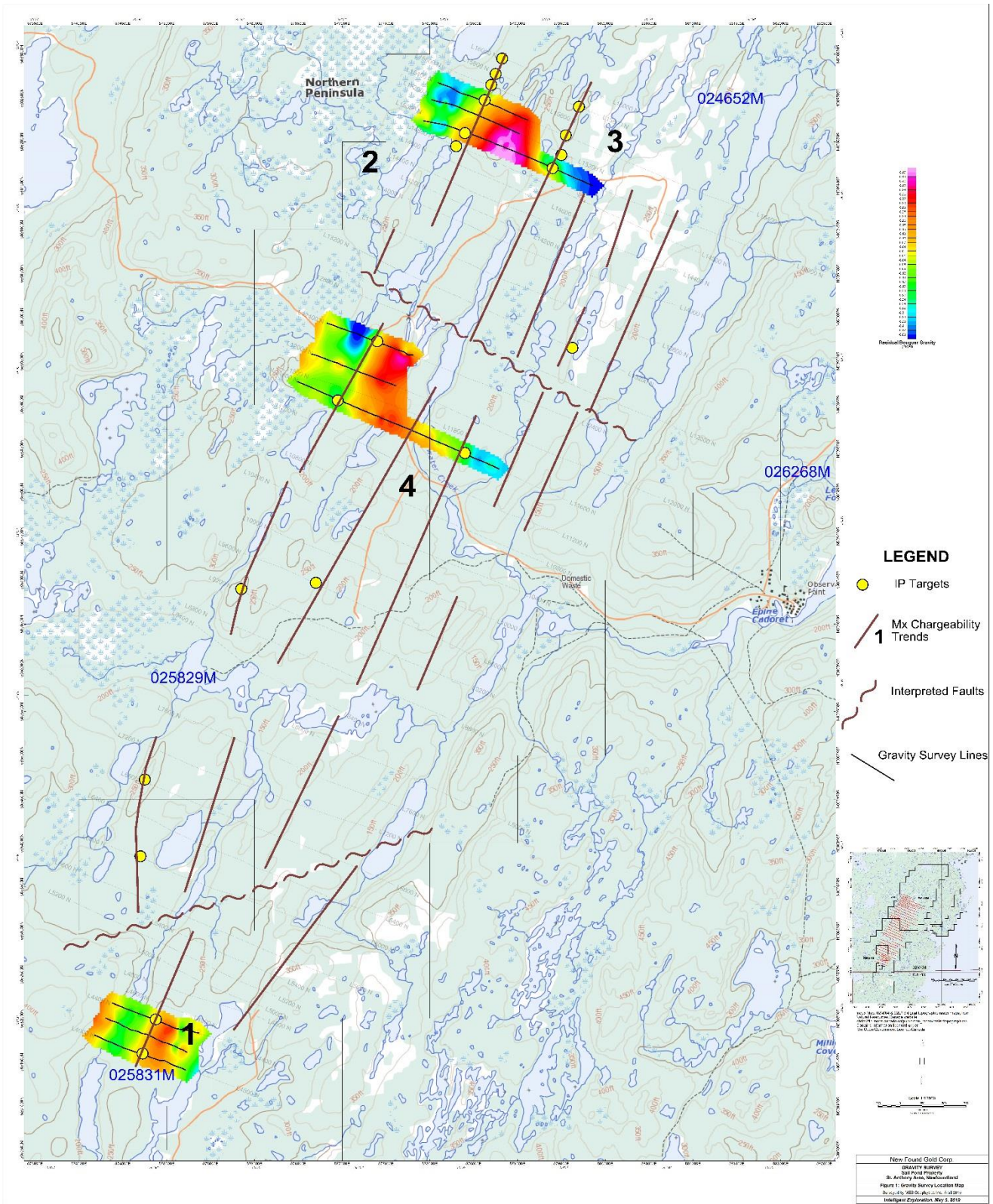


Figure 1 – Sail Pond Gravity Survey Location Map

**3. Survey Results**

On completion of the surveys, MES used Geosoft’s OASIS MONTAJ® Gravity Processing Module to process the data and correct for elevation differences from station to station.

A density value of 2.67 g/cm<sup>3</sup> was used to calculate the Bouguer Correction. This value is appropriate, lying between typical value for unmineralized dolostone (2.6 g/cm<sup>3</sup>) and the average density (2.708 g/cm<sup>3</sup>) measured from Sail Pond samples.

The Bouguer corrected data were gridded separately for each of the three sets of lines after applying a 1<sup>st</sup> order polynomial to remove a west to east regional gradient. Figures 2 to 4.

A gravity high is observed on all the lines surveyed but only on the southernmost target is it near the chargeability (n=2) maximum. The amplitude of the residual gravity anomaly ranges from 0.25 mgal on the South Zone target to 0.35 mgal on the Central Zone target and 0.5 mgal on the North Zone target. All of these are subtle anomalies and they appear to be associated with the axial plane of the fold structure. Anomalies of this size are typical of formational variations rather than tonnages of economic mineralization.

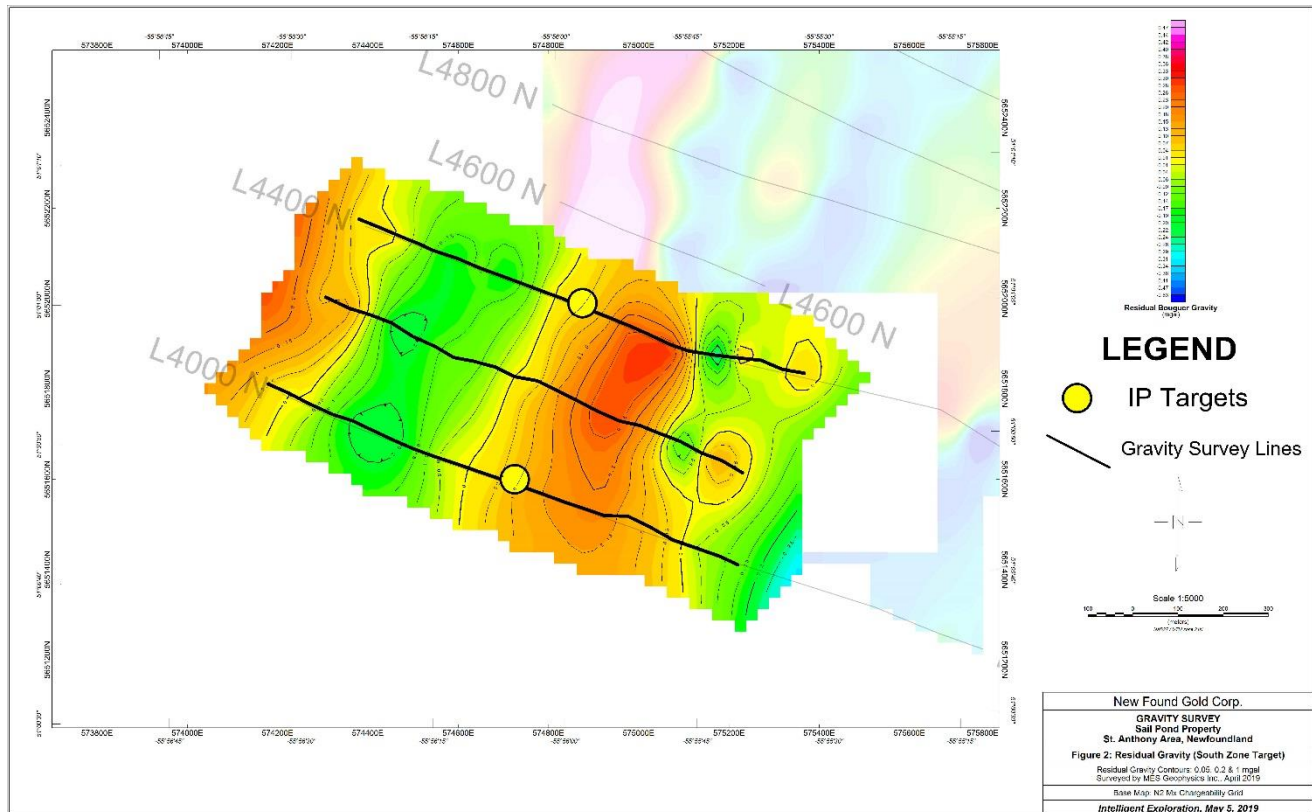


Figure 2 – Residual Gravity (South Zone Target)



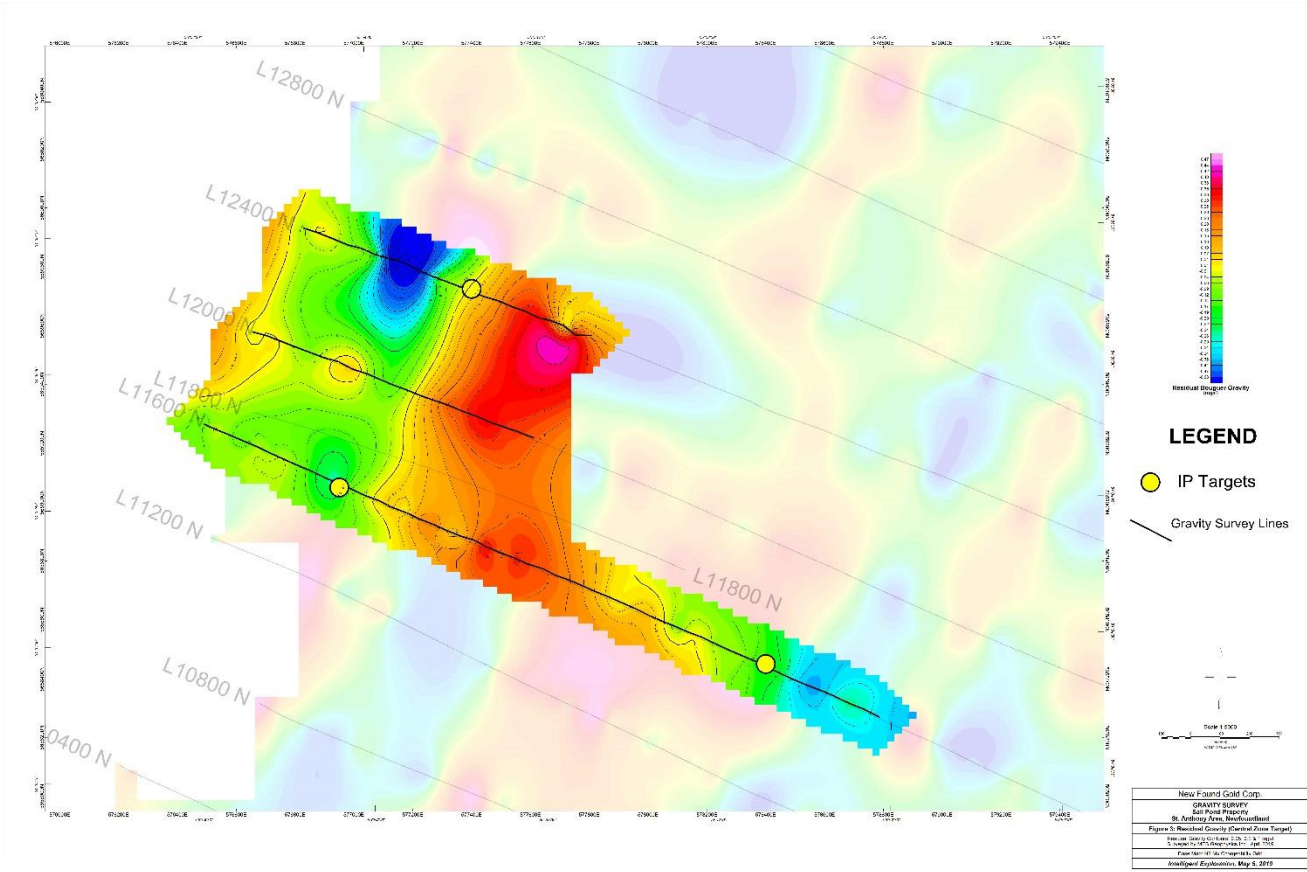


Figure 3 – Residual Gravity (Central Zone Target)



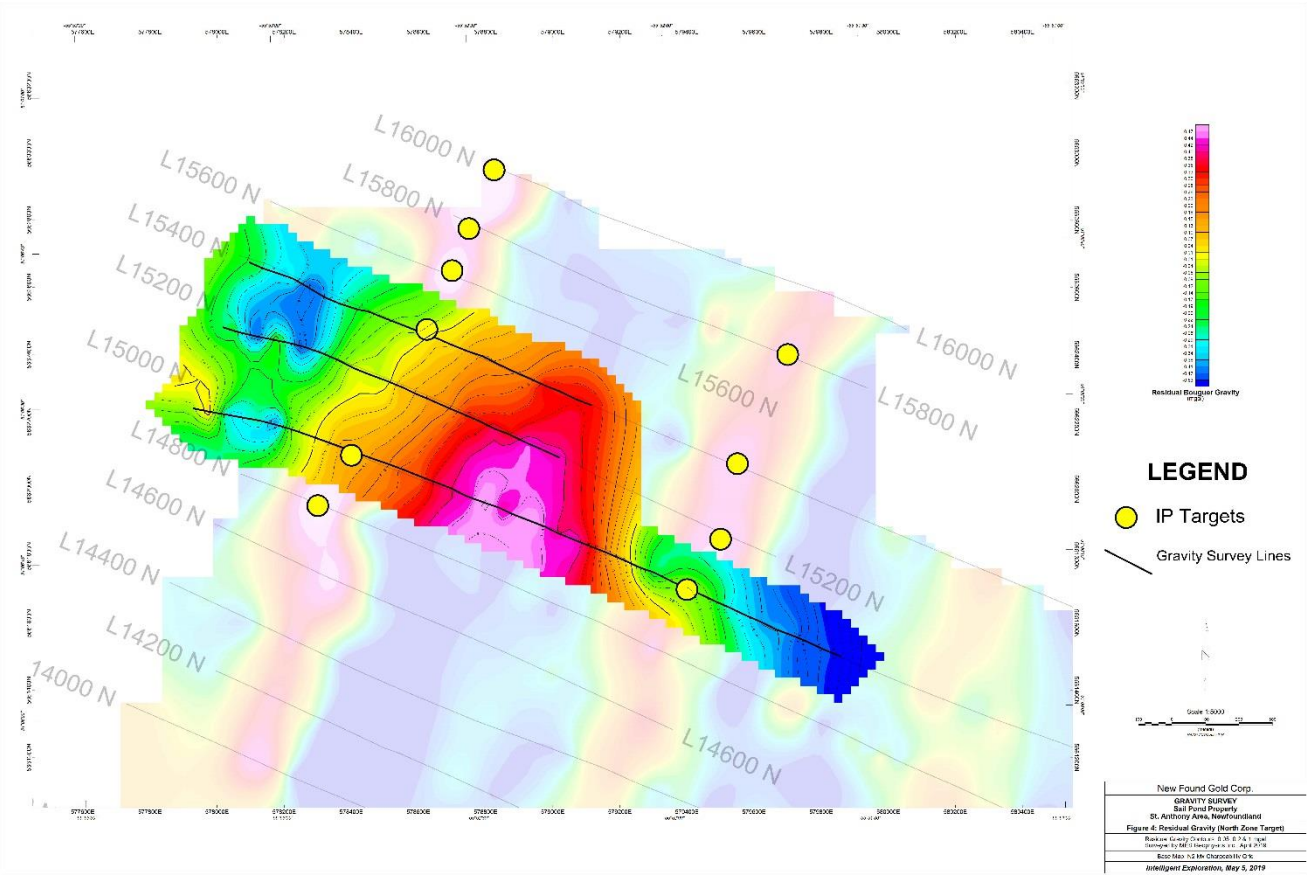


Figure 4 – Residual Gravity (North Zone Target)

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A simple dyke model using Pdyke® shows that a 0.25 mgal South Zone target can be explained with a 0.2 density contrast for a body 30m wide and extending 400m from 10m below the surface (Figure 5).

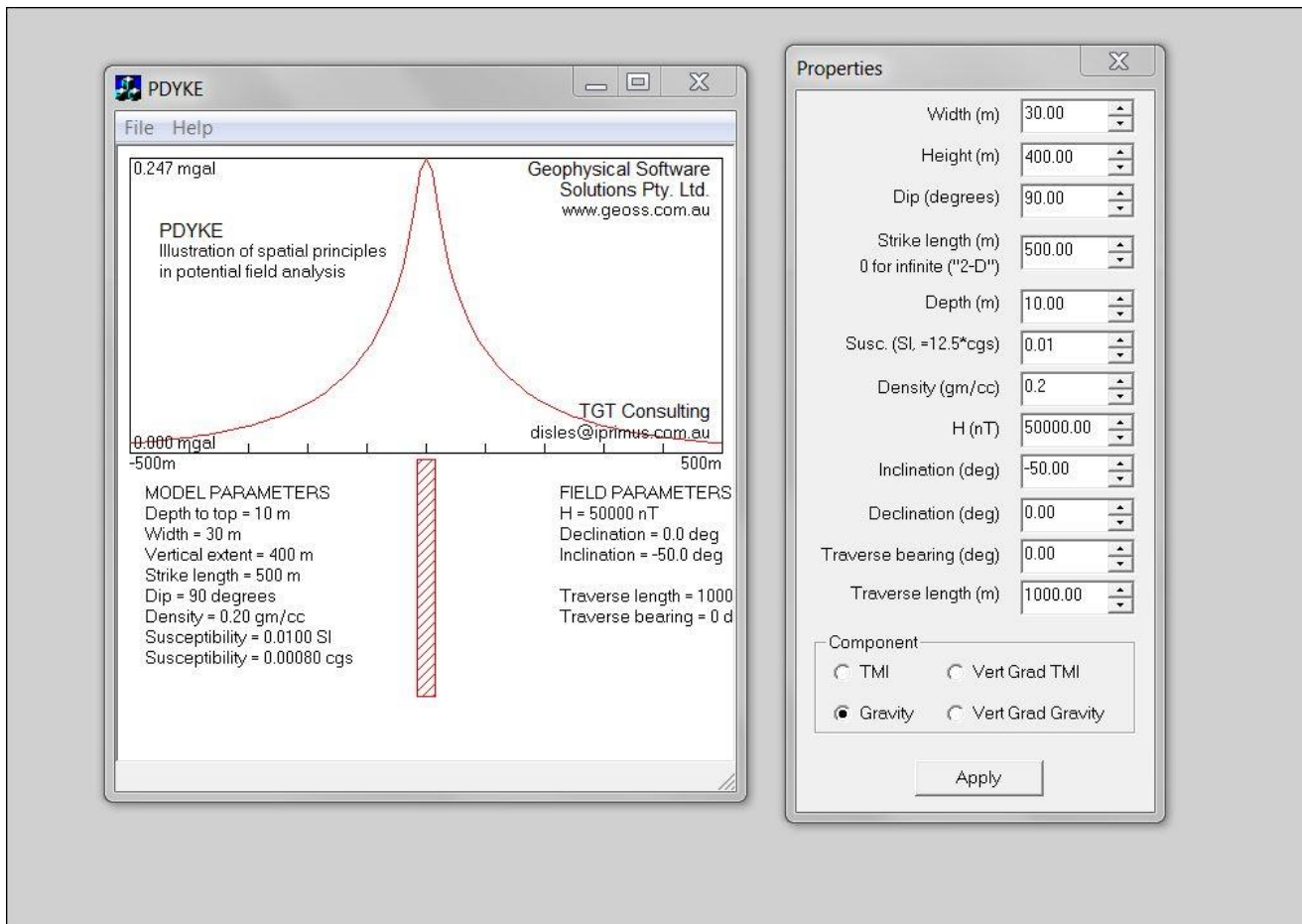


Figure 5 – Sail Pond Model (South Zone target)

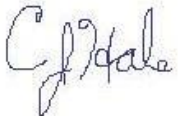
## 4. Conclusions and Recommendations

The Gravity Surveys have not outlined a significant mass excess that coincides with a chargeability high. A minor gravity high is near the chargeability high on the three southernmost lines (South Zone target). This chargeability was not closed to the south by the 2018 IP Survey.

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We do not see a target that we would recommend for drill testing from these results. Prospecting the gravity/chargeability anomaly at the extreme south end of the grid or possibly extending the grid to close this anomaly could be considered for future work on the property.

Respectfully submitted,

A handwritten signature in blue ink that reads "C. J. Hale". The signature is written in a cursive style with a large initial "C".

C. J. Hale, Ph. D., P. Geo  
Partner

A handwritten signature in blue ink that reads "John Gilliatt". The signature is written in a cursive style with a large initial "J".

John Gilliatt, B. Sc., P. Geo  
Partner