

Appendix E.1

**Limited Phase I and Phase II Environmental
Site Assessment**



Limited Phase I and Phase II Environmental Site Assessment

**Goldboro Gold Mine, Guysborough
County, Nova Scotia**

Anaconda Mining Inc.

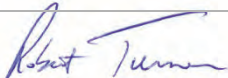
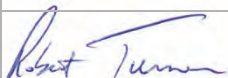
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1. Introduction

1.1 Scope of Work

GHD Limited (GHD) was tasked by Anaconda Mining Inc. (Anaconda) with assessing the spatial and analytical extent of historic tailings found in the proposed mineral lease area (the Site) for the Goldboro Gold Mine Project (the Project) located in Goldboro, Guysborough County, Nova Scotia (NS). This Limited Phase I and Phase II Environmental Site Assessment (ESA) was conducted as part of the feasibility due diligence for the development of the Project and serves to characterize environmental contamination remaining from historical activity.

The Phase I ESA consists of a records review, site visit observations, an evaluation of information available from previous site work, and a screening of known areas of historic tailings within the area of Upper Seal Harbour. The Phase II ESA included collection of surface soils samples from five previously identified historic tailings areas, a review of analytical data, and recommendations for further assessment. The ESA was limited to the investigation of historic mine tailings found within the proposed mineral lease area for the Project.

1.2 Regulatory Framework

Areas of historic tailings are typically considered as contaminated sites in Nova Scotia and therefore are subject to the Contaminated Sites Regulations. On July 6, 2013, Nova Scotia adopted Contaminated Site Regulations under the Environment Act which requires a property owner to notify Nova Scotia Environment & Climate Change (NSECC) of concentrations of contaminants exceeding the Tier 1 Environmental Quality standards, applicable to the property. Once NSECC is notified, the property would be entered into the Contaminated Site Process (CSP) and the respective property owner is required to fully assess contaminants of concern (COC). Through the CSP all applicable matrices such as soil, groundwater, sediment, surface water, must be assessed during the Phase II ESAs including operable pathways where the COC could pose a risk to human health and/or the environment. Based on the land use and associated receptors, the COC(s) can be managed on the property or there may be a requirement to remediate the property. Given that the property is owned by the Province of Nova Scotia then an appropriate course of action will be determined in consultation with the province. GHD will provide oversight of the program under the supervision of a Qualified Site Professional and provide ongoing management of the file as it relates to contaminated sites legislation.

1.3 Limitations

This report has been prepared by GHD for Anaconda Mining Inc. and may only be used and relied on by Anaconda Mining Inc. for the purpose agreed between GHD and Anaconda Mining Inc. as set out in this report.

GHD otherwise disclaims responsibility to any person other than Anaconda Mining Inc. arising in connection with this report. GHD also excludes implied warranties and conditions, to the extent legally permissible.

The services undertaken by GHD in connection with preparing this report were limited to those specifically detailed in the report and are subject to the scope limitations set out in the report.

The opinions, conclusions and any recommendations in this report are based on conditions encountered and information reviewed at the date of preparation of the report. GHD has no responsibility or obligation to update this report to account for events or changes occurring subsequent to the date that the report was prepared.

The opinions, conclusions and any recommendations in this report are based on assumptions made by GHD described in this report. GHD disclaims liability arising from any of the assumptions being incorrect.

2. Phase I ESA

2.1 Site Description

The proposed Goldboro Gold Mine Project is located in Goldboro, Guysborough County, Nova Scotia. The Project is in the Goldboro region on the Goldboro Deposit, which is characterized by relatively abundant, coarse free gold. The Crown Lease area (the Site) intended for use in the Project is shown in Figure A1, Appendix A.

The Site was originally developed in 1892 as an auriferous ore mine from the Richardson belt. The mine was active from 1893 to 1958 and produced a total of 57,846 troy ounces of gold from a total of 400,516 tonnes of crushed ore. The historic gold mining industry across the province of Nova Scotia utilized various extraction technologies including stamp milling with bromo-cyanide extraction and mercury amalgamation (Parson et al. 2012). The mill and processing facilities were located on the southern end of Gold Brook Lake. The processing route of the ore included being crushed and passed throughout the amalgamation tables, which produced by-product (tailings) that were composed of finely-ground sand-to-silt sized rock particles, water, and processing agents. As a result of the historic operations, tailings deposits are located throughout the Site in watercourses and low-lying areas. As would be expected, tailings were not managed in accordance with present mining practices, and contain elevated concentrations of arsenic and mercury, which pose a threat for environmental contamination in the Project area.

2.2 Records Review

2.2.1 Information Sources

Information sources obtained and reviewed as part of the records review are listed below.

Table 1 Information Sources

| Source | Information/Contact |
|-------------------------------------|--|
| Aerial Photographs | 1991, 2008, 2017, and 2020 – Anaconda Aerial Photography Collection |
| Fire Insurance Plans | None available |
| City Directories | None available |
| Previous Environmental Reports | WSP. 2019. Goldboro Site Historic Tailings Assessment, Anaconda Mining Inc. Parson et al. 2012. Environmental Geochemistry of Tailings, Sediments and Surface Waters Collected from 14 Historical Gold Mining Districts in Nova Scotia Percival et al. 2013. Mineralogy and Spectral Reflectance of Soils and Tailings from Historical Gold Mines, Nova Scotia |
| Company Records | 2017 Historic Sample Sites, Goldboro Prospect, Goldboro, NS. |
| Geological and Geotechnical Reports | Surficial Geology Map of the Province of Nova Scotia, Nova Scotia Department of Natural Resources, Map 92-3, 1992 Geological Map of the Province of Nova Scotia, Nova Scotia Department of Natural Resources, Map ME2000-1, 2000 Map Showing Potential Radon in Indoor Air in Nova Scotia, Province of Nova Scotia, Department of Natural Resources |
| Regulatory Infractions | Regulatory infraction records for the Site were not requested due to the absence of a civic address. |
| Reportable Spill Occurrences | Reportable spill occurrence records for the Site were not requested due to the absence of a civic address. |
| Contaminated Sites | Site is identified as a former gold mine based on Nova Scotia Department of Lands and Forestry (NSDLF) records and a potential source of arsenic and mercury. |
| Landfill Records | Site is identified as a former gold mine based on NSDLF records and potential source of tailings and waste rock. |

Table 1 Information Sources

| Source | Information/Contact |
|---|---|
| Underground & Aboveground Storage Tanks | Tank registration records for the Site were not requested due to the absence of a civic address. |
| Water Well Records | Based on a search of the Nova Scotia Well Logs Database, the nearest drinking water well to the Site is approximately 700 m away. |
| Mapping | NTS Sheet 11F04, Guysborough County, Nova Scotia |

2.2.2 Previous Reports

The 2012 Geological Survey of Canada report titled ‘Environmental geochemistry of tailings, sediments and surface waters collected from 14 historical gold mining districts in Nova Scotia’ outlines a historic tailings sampling program conducted by Natural Resources Canada from 2003 to 2006. The objective of the study was to characterize the distribution, chemical form and potential risks associated with the metals released into the Canadian surface environment from natural sources and activities related to their exploitation. This study included an investigation of the area of the Project, termed the upper Seal Harbour Gold District.

Samples of tailings were collected from 20 sites along Gold Brook in 2003 and 2004 up to 4 km downstream of the former mill site. The highest concentrations of arsenic (up to 72,000 mg/kg, or 7.2 wt.%) and mercury (up to 120,000 µg/kg) were measured directly within the foundation of the Richardson Mill. However, high concentrations of both arsenic and mercury are present in the sediments along Gold Brook and are most likely present in the bottom sediments of Seal Harbour Lake as well (Parson et al. 2012).

The 2013 Geological Survey of Canada report titled ‘Mineralogy and spectral reflectance of soils and tailings from historical gold mines, Nova Scotia’ details extensive dispersion of arsenic and mercury-bearing mine tailings in the receiving environment downstream from many historical mine sites. The report includes studies from Nova Scotia sites related to the spectral reflectance, regional setting, and analytical results of tailings studies in the area. The report concluded that the silt-sized materials that make up most of the historic tailings at mine sites in Nova Scotia contain elevated concentrations of mercury and arsenic and result in potential risks to the receiving environment (Percival et al. 2013).

In 2019, WSP conducted a sampling program to identify the extent of historical tailings on the Goldboro Site. The investigation included a review of the Site digital terrain model and available satellite imagery in addition to chemical data. Thirty-four (34) soil and sediment samples and nine water samples were collected from the Site and analyzed for metals and mercury. The highest concentrations of arsenic in soil and sediment were found at the mouth of Gold Brook Lake near the location of the historic Richardson Mill. Other areas that contain elevated arsenic in sediments include the floodplain of Gold Brook, the wetland area east of Gold Brook and the settling ponds west of Gold Brook and associated wetland areas located to the south and west, a result of the natural transport of tailings from the historic discharge points (WSP 2019).

2.2.3 Physical Setting

2.2.3.1 Surficial Geology

Based on the Surficial Geology Map of Nova Scotia (ME 1992-003), the native surficial soils at the Site consist of till. Stony, sandy matrix material derived from local bedrock sources make up the silty till. The topography of the area is described as flat to rolling, with many surface boulders (Nova Scotia Department of Natural Resources [NSDNR] 1992).

Geochemical samples were collected from till covering the southern mainland Meguma Terrane in Nova Scotia from 1977-1982 by the Canada Department of Regional Economic Expansion and the Nova Scotia Department of Mines. 12 geochemical samples from this survey were collected within 10 km of the Site, as shown in Figure A2. The average

concentration of arsenic from these 12 samples was 82.3 mg/kg, although nine of the samples were reported to have arsenic concentrations greater than 99 mg/kg (NSDNR 2006).

2.2.3.2 Surface Water Drainage

Land cover at the Site consist of open water, wetlands, roadways, and forested areas. Gold Brook runs through the Site from north to south between Gold Brook Lake and Seal Harbour Lake.

2.2.3.3 Bedrock Geology

Based on the Geological Map of the Province of Nova Scotia (ME 2000-001), the bedrock in the area of the site consists of a seam of the Halifax Formation throughout a base of the Goldenville Formation of the Meguma Group.

The Nova Scotia Mineral Occurrence Database contains an occurrence of arsenopyrite located approximately 4 km southeast of the Site (NSDNR 2016). Arsenic is released in soil as a result of weathering of arsenopyrite, which can contribute to elevated background concentrations.

2.3 Site Description

2.3.1 Property Information

The Site is in a rural forested area near Goldboro, Guysborough County, Nova Scotia. The Site consists of portions of two different Crown land properties. Property Identification Numbers (PID Nos.) include:

- PID 35094366, 38,175 hectares (ha), Crown Land
- PID 35094325, 36 ha, Crown Land

The PIDs are not currently serviced being in a rural portion of the province. A summary of the property information is provided in Table 2.

Table 2 Property Details

| | |
|-----------------------------------|---|
| Current Site Owner: | The Queen in the Right of the Province of Nova Scotia |
| Legal Description: | Provincial Forest |
| Property Area: | 38,210 ha |
| Water: | No municipal connections |
| Storm and Sanitary sewers: | None |
| Electricity: | Nova Scotia Power |
| Natural Gas: | None |

2.3.2 Historical Land Use

Table 3 provides a chronological review of land use at the Site as described in the 2012 Geological Survey of Canada report titled 'Environmental geochemistry of tailings, sediments and surface waters collected from 14 historical gold mining districts in Nova Scotia' (Parson et al. 2012).

Table 3 Historical Land Use

| Period/Date | Land Use |
|-------------|---|
| 1892 | Howard Richardson, prospecting along an anticline trace from GSC maps, discovers a large body of low-grade ore, later known as the Richardson belt. |

Table 3 Historical Land Use

| Period/Date | Land Use |
|--------------|---|
| 1892–1893 | The Richardson Gold Mining Company erects a 15-stamp mill. |
| 1893–1896 | Active mining on the Richardson belt; the ore was carried by a trestle 1200 feet long from the shaft to a mill (40 stamps by 1896) on the edge of Gold Brook Lake. |
| 1898–1899 | Wilfley concentrators used to treat tailings from the mill; in 1899, 150 tons of arsenopyrite concentrate were saved from the tailings. |
| 1901 | 20 additional stamps added to the Richardson mill, bringing the total number to 60, and four Wilfley tables in use for recovering sulphide concentrates. |
| 1902–1905 | Tailings treated without concentration in an extensive cyanide plant that had been transported from the Caribou district in Fall 1901. Initial operations were unsatisfactory, and tests were made using the bromo-cyanide process. |
| 1905–1912 | Active mining by various companies at the Richardson Mine and the East Goldboro property; tailings continued to be treated successfully in a bromocyanide plant containing Wilfley tables for concentration; in 1909, 83% of the gold was being recovered by amalgamation, and 17 percent by bromo-cyanide extraction of concentrate; during this period, large tonnages of arsenical concentrate were shipped first to Germany, and later to Wales for smelting. |
| 1912–1927 | Intermittent activity by various companies, including treatment of tailings. |
| 1988–present | Surface exploration, shaft rehabilitation, surface and underground diamond drilling and limited underground exploration. |

2.4 Site Visit Findings

2.4.1 Current Site Operations

The Site was used for a bulk sampling program conducted from 2018-2019 as part of advanced exploration activities to confirm the geological interpretation of the deposit, test for spatial and grade continuity of the mineralized structures, validate key assumptions of the updated Mineral Resource model, and test mining method parameters to optimize the extraction of the mineralized material. Infrastructure remaining on-Site from the bulk sampling program includes mine buildings, the remainder of the bulk sample stockpile and run-off collection system, and settling ponds. Underground mine workings and a flooded mine portal and shaft are also present on-Site.

2.4.2 Waste Generation and Storage

No hazardous waste generation or storage was identified to be conducted on the Site. Waste on the Site is characterized as waste rock from historical mining and occasional metal debris.

No sources of air emissions that are suspected to result in residual contamination to the Properties were identified on the Site. Further, no strong, pungent, or unusual odours were identified.

2.4.3 Fuel and Chemical Storage

2.4.3.1 Underground Storage Tanks

No chemical or fuel storage USTs were identified on the Site. No vent or fill pipes indicating the potential presence of an abandoned or decommissioned UST were observed.

2.4.3.2 Aboveground Storage Tanks

No permanent chemical or fuel storage ASTs were identified on the Site. There are mobile tanks associated with the exploration process that are not considered to be a potential environmental concern to the Site.

2.4.3.3 Other Storage Containers

No permanent chemical storage was observed on the Site.

2.4.4 Exterior Site Observations

2.4.4.1 Surface Features

No hydrocarbon-stained surficial materials were observed on the Site. It was noted that in locations there are exposed historic tailings present at the surface, as well as areas of waste rock. There are several abandoned mine openings at the Site which are identified on Site maps and with signage.

2.4.4.2 Fill Materials

There are areas of exposed historic mine tailings at the Site. Tailings are believed to have been placed on the native till layer as early as 1892.

2.4.4.3 Wells

No abandoned or existing wells were encountered on the Site. The Nova Scotia Well Logs Database does not indicate any domestic, commercial, or industrial water wells on the Site properties.

2.4.4.4 Asbestos-Containing Materials (ACMs)

As the properties are undeveloped, no suspected ACMs were identified on the Site during the Site visit.

2.4.4.5 Polychlorinated Biphenyls (PCBs)

No oil-filled transformers or lamps ballasts were observed on the Site.

2.4.4.6 Lead-Based Materials

As the properties are undeveloped, no suspected lead-based materials were identified on the Site during the Site visit.

2.4.4.7 Urea Formaldehyde Foam Insulation (UFFI)

As the properties are undeveloped, no UFFI was identified on the Site during the Site visit.

2.4.4.8 Ozone-Depleting Substances (ODSs)

As the properties are undeveloped, no equipment containing ODSs was identified on the Site.

2.4.5 Special Attention Items

2.4.5.1 Radon Gas

Based on the online map supplied by NSDLF, the Site is in an area of low radon potential (NSLF 2009).

2.4.5.2 Microbial Contamination (Mould) and Indoor Air Quality

As the properties are undeveloped, no visual evidence or suspected indoor mould growth was identified on the Site.

2.4.5.3 Electromagnetic Frequencies (EMFs)

No high-voltage transmission lines or electrical substations, which could generate significant electromagnetic field were identified on or adjacent to the Site.

2.4.5.4 Noise and Vibration

Current Site activity involving drilling generates intermittent and non-permanent noise/vibration, however given the proposed industrial nature of the surrounding area this is not considered to be a concern.

2.4.6 Neighbouring Property Information

The Site is surrounded by undeveloped forested land to the north and east. Several of the adjacent properties to the south and west contain residences on Marine Drive, Goldboro. The nearest residence to the historic tailings likely to be disturbed by Project activity is approximately 1.8 km to the southwest. The Maritimes & Northeast natural gas pipeline is located west of proposed Project infrastructure, and approximately 500 m west of the historic tailings likely to be disturbed by Project activity. The former Goldboro Gas Plant is located approximately 2.5 km southwest of the Site. In 2014 the Province of Nova Scotia issued an environmental assessment approved for the proposed Goldboro Liquefied Natural Gas (LNG) project located at the site of the former Goldboro Gas Plant. Numerous abandoned mine openings (AMOs) are located on the Site and surrounding properties.

2.5 Historic Tailings Screening

In order to better define the potential impact of Project activities on historic tailings, a screening table was produced by GHD to summarize available information on 17 previously identified areas of historic tailings in the vicinity of Goldboro. Tailings areas A through Q are shown in Figure A2, Appendix A. The historic tailings screening table is provided in Appendix B, and includes the following detail:

- Land ownership (Crown / Non-Crown);
- Approximate location;
- Elevation;
- Approximate area;
- Approximate depth / thickness;
- Availability of geochemical data;
- COCs;
- Location relative to exploration license area, proposed mine pit, and proposed tailings management facility (TMF);
- Expected direct or indirect disturbance by mine operations;
- Deposit environment;
- Underlying lithology;
- Proximity to potential receptors;
- Potential migration pathways;
- Ecological considerations; and,
- Human health and recreational considerations.

Based on a review of previous tailings delineations (produced using sampling completed by the Geological Survey of Canada, WSP, and Anaconda), historic tailings areas F through Q are not anticipated to be directly or indirectly impacted by proposed Project infrastructure and therefore are not given further consideration at this time. Tailings areas P and Q are recommended to be re-screened using the results of groundwater and surface water modelling conducted for the Project to assess possible changes to flow regime. Five tailings areas, A through E, are located in the vicinity of the Project and are likely to be disturbed by proposed activity. These five areas are the focus of further

investigation, however only the near field of the Gold Brook will be investigated where direct impacts may occur through mine development and operation.

3. Phase II ESA

3.1 Methodology

3.1.1 Surface Soil Sampling Program

In order to delineate the horizontal extent of historic tailings areas A through E, manual samples were collected using a hand auger. Samples were collected by GHD from June 14 - 17, 2021, with additional samples collected by Anaconda on September 1, 2021. Samples were collected from ground surface to a maximum depth of 1.5 m, subject to refusal. A total of 272 delineation points were manually inspected, including descriptions of lithology and if any tailings material was encountered. Coordinates were recorded at each delineation point using a handheld GPS to establish the horizontal extent of visually confirmed tailings. A total of 84 delineation points were sampled for soil analysis. Samples were visually inspected and submitted for analysis based on visual observations and geographic distribution. Delineation points and sample locations are shown in Figure A3 in Appendix A. Photos taken during the sampling program are provided in Appendix C.

The following summarizes the assessment locations per historic tailings areas:

- Tailings Area A: Total of 63 delineation locations with the collection of 27 soil samples for laboratory analysis.
- Tailings Area B: Total of 68 delineation locations with the collection of 15 soil samples for laboratory analysis.
- Tailings Area C: Total of 22 delineation locations with the collection of 6 soil samples for laboratory analysis.
- Tailings Area D: Total of 44 delineation locations with the collection of 19 soil samples for laboratory analysis.
- Tailings Area E: Total of 75 delineation locations with the collection of 17 soil samples for laboratory analysis.

3.1.2 Sample Handling

The samples were placed in laboratory supplied clean glass jars. The jars were placed in a cooler with ice packs for transport to the laboratory. To minimize the potential for cross-contamination, the sampling equipment was thoroughly rinsed between each sampling event or samples were obtained from soil that never contacted the excavation equipment. Samples not submitted for laboratory analysis were archived for potential future analysis.

3.1.3 Field and Laboratory Program

The field and laboratory program is summarized in Table 4. Samples were submitted to Bureau Veritas in Bedford, NS, and to Eastern Analytical in Springdale, Newfoundland and Labrador (NL). Bureau Veritas and Eastern Analytical are accredited by the Standards Council of Canada for each of the analysis methods utilized and have in-house quality assurance/quality control (QA/QC) programs to govern sample analysis, including replicates. The results of this analysis are presented in Tables D.1 through D.6 in Appendix D. Laboratory certificates of analysis are provided in Appendix E.

Table 4 Field and Laboratory Program

| Analytes | Matrix | Samples Submitted | Sample IDs | QA/QC Samples | |
|--|--------|-------------------|--|------------------|-------------------------------|
| | | | | Field Duplicates | Analytes |
| General chemistry and available metals | Soil | 56 | Assorted, A-05 – E-74 | 6 | General chemistry and metals |
| Available mercury | Soil | 83 | Assorted, A-05 – E-74, ANX-A1a – ANX-D8a | 8 | Available mercury |
| Total metals | Soil | 27 | Assorted, ANX-A1a – ANX-D8a | 2 | Total metals |
| Leachable arsenic | Soil | 12 | Assorted, A-14 – E-45 | 3 | Leachable arsenic |
| Total organic carbon (TOC) | Soil | 14 | Assorted, A-24 – E-35 | 1 | Total organic carbon (TOC) |
| Modified acid-base accounting | Soil | 6 | Assorted, A-24 – E-35 | 1 | Modified acid-base accounting |
| Grain size analysis | Soil | 13 | Assorted, A-14 – E-45 | 1 | Grain size analysis |

3.1.4 Quality Assurance/Quality Control Sampling Program

GHD utilizes a protocol for collecting and analyzing samples which is defensible in legal forums. This protocol meets the requirements outlined in the "Handbook of Analytical Methods of Environmental Samples" and "A Guide to the Collection and Submission of Samples for Laboratory Analysis".

To ensure the integrity of the laboratory results in any sampling program, it is necessary to develop and use a QA/QC program. QA/QC samples are required to ensure, or at least quantify, the accuracy and precision of the field sampling methodology and the analytical results. The QA/QC sampling was conducted on over 10% of parameters that were analyzed. QA/QC was addressed by collecting field duplicates. The results of this testing were used to evaluate the reliability of the sampling. Each duplicate was a blind duplicate in that the sample was not identified as a duplicate to the laboratory. The results of this testing were used to evaluate the reliability of the sampling. QA/QC results are provided in Section 3.5.

3.2 Results of Field Investigation

3.2.1 Field Observations

Pertinent field observations and coordinates for the 245 delineation points collected by GHD are provided in Appendix F. The horizontal extent of visually observed tailings is presented in Figures A4, A5, and A6.

3.2.2 Stratigraphy

Samples were collected from ground surface to a maximum depth of 1.5 m, subject to refusal. Most of the upper layer of the delineation points consisted of organics, while some points were located in wetland areas with exposed tailings. Exposed bedrock was observed in three locations within the surrounding area. The majority of soils encountered in the program consisted of light to dark brown silty sand. Tailings material was described as grey-green sand. Soil stratigraphy recorded at each delineation point is provided in the test hole data table in Appendix F.

3.3 Preliminary Site Exposure Scenario Assessment

Based on the definitions provided in the NSECC Notification of Contamination Protocol (2021), the use of industrial land use, potable water, and coarse-grained soil criteria from the Tier 1 Environmental Quality Standards (EQS) is considered appropriate.

Industrial land use criteria are recommended for areas used for the production, manufacturing, or construction of goods, and which do not permit direct public access. Upon Project development, historic tailings areas A through E will be in the vicinity of mine infrastructure and access to these areas will be restricted to workers.

Following the determination of groundwater potability flow chart provided in the NSECC Notification of Contamination Protocol (2021), groundwater at the Site is considered potable as no municipal water is available.

13 soil samples collected in this program were submitted for grain size analysis. The majority of these samples contained material having greater than 50% particles equal to or greater than 75 microns in diameter. As described in the NSECC Notification of Contamination Protocol (2021), coarse-grained soil criteria should be used for the Site.

| Site Exposure Scenario |
|------------------------|
| • Industrial |
| • Potable |
| • Coarse-grained soil |

Analytical data collected during this program was also compared to the Canadian Council of Ministers of the Environment (CCME) Canadian Soil Quality Guidelines for the Protection of Environmental (SQGE) and Human Health (SQGHH), industrial land use.

3.4 Laboratory Analytical Results for Soil

Laboratory analytical results for metals in soil are presented in Table D.1, Appendix D. Available arsenic exceeded NS Tier 1 EQS in 53 samples, with five of these exceedances occurring in field duplicates. Available arsenic also exceeded CCME SQGHH in 39 samples (including 4 field duplicates) and SQGE in 41 samples (including 4 field duplicates).

Available selenium exceeded NS Tier 1 EQS in 12 samples and SQGE in two samples. Available zinc exceeded NS Tier 1 EQS in one sample and did not exceed SQGE or SQGHH. None of the other parameters analyzed during this program exceeded applicable criteria.

| Soil Available Metals Samples |
|---|
| • 62 samples submitted (including six field duplicates) |
| • 53 arsenic exceedances to NS Tier 1 EQS (including five field duplicates) |
| • 12 selenium exceedances to NS Tier 1 EQS (no field duplicates) |
| • 1 zinc exceedance to NS Tier 1 EQS |
| • No other exceedances |

The exceedances can be attributed to the historic tailings in the area, and to naturally occurring background metals concentrations. Arsenic, selenium, and zinc are listed as substances potentially considered as background occurrences in the Nova Scotia Notification of Contamination Protocol (NSECC 2021).

3.5 Quality Assurance / Quality Control Discussion

QA/QC sampling consisted of the collection and analysis of approximately 10% of the samples for quality control. This program permits the evaluation of the representativeness of the samples. Bureau Veritas and Eastern Analytical also submitted their own duplicate samples to ensure their own quality control.

Table 5 Summary of QA/QC Sampling

| Field Duplicate Analysis | Range of %RPD | Number of Analytes within $\pm 40\%$ RPD | Acceptable Duplicate Correlation |
|--------------------------|---------------|--|----------------------------------|
| Metals (soil) | 0% to 67% | 23 of 27 | Yes |
| General chemistry (soil) | 0% to 115% | 8 of 9 | Yes |

In general, the duplicate results agree closely with their corresponding samples and confirm the representativeness of the sampling procedures. There are no firm guidelines for the degree of correlation expected between duplicates due to natural heterogeneity in soil type (e.g. grain size, clay fraction) and contaminant distribution. However, the values noted above are considered to indicate an acceptable duplicate correlation.

Four metals parameters, arsenic and nickel from sample ANX-A4b and its duplicate, lead from samples B-37 and DUP-B, and manganese from samples C-03 and DUP-C, produced RPDs greater than 40% (43%, 43%, 67% and 48%, respectively). Orthophosphate in samples B-37 and DUP-B produced an RPD of 115%. The other RPDs calculated from field duplicate samples were under 40%. The overall laboratory and field data quality is considered acceptable.

3.6 Contaminant Distribution

3.6.1 Arsenic Exceedances in Soil

Arsenic exceedances were present in each of the historic tailings areas assessed (A through E). The locations of soil arsenic exceedances are presented in Figure A4. Horizontal and vertical delineation of arsenic impacted soil was not achieved during this program.

3.6.2 Selenium Exceedances in Soil

Selenium exceedances were present in each of the historic tailing areas assessed (A through E). The locations of soil selenium exceedances are presented in Figure A5. Horizontal and vertical delineation of selenium impacted soil was not achieved during this program.

3.6.3 Zinc Exceedances in Soil

Zinc exceedances were present in historic tailings area B and were not recorded in the other areas assessed. The location of the zinc exceedance is presented in Figure A6. The horizontal extent of zinc impacted soil is approximately 2,200 m². Horizontal delineation of zinc impacted soil was achieved during this program, however vertical delineation is still required.

4. Conclusions and Recommendations

Based on the information gathered and on observations made during this investigation, this Limited Phase I and Phase II ESA has revealed evidence of environmental contamination associated with the subject property. Results of the study are as follows:

- The Site was originally developed in 1892 as an auriferous ore mine from the Richardson belt. The mine was active from 1893 to 1958 and produced a total of 57,846 troy ounces of gold from a total of 400,516 tonnes of crushed ore. The mill and processing facilities were located on the southern end of Gold Brook Lake and produced by-product (tailings) that were composed of finely-ground sand-to-silt sized rock particles, water, and processing agents. As a result of the operations, tailings deposits are located throughout the site in water courses and low-lying areas. The tailings were not managed in accordance with present mining practices, and contain

high concentrations of arsenic and mercury, which pose a threat for environmental contamination through potential increased activity in the area.

- Based on a review of previous tailings delineations (produced using sampling completed by the Geological Survey of Canada, WSP, and Anaconda), 17 areas of historic tailings were identified in the vicinity of Goldboro. The majority of these areas are not anticipated to be directly or indirectly impacted by proposed Project infrastructure and therefore are not given further consideration at this time. Five tailings areas, A through E, are located in the vicinity of the Project and are likely to be disturbed by proposed activity.
- In order to delineate the horizontal extent of historic tailings areas A through E, manual samples were collected using a hand auger. A total of 272 delineation points were manually inspected, including descriptions of lithology and any tailings material encountered; 84 of these delineation points were sampled for soil analysis.
- Concentrations of arsenic, selenium, and zinc in exceedance of the NS Tier 1 EQS were present in the historic tailing areas assessed (A through E). Horizontal and vertical delineation of arsenic and selenium impacted soil was not achieved during this program. Further sampling is recommended to better define the horizontal and vertical extent of metals contamination.

5. Closure

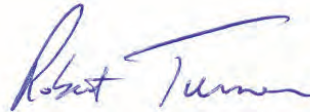
This report was prepared by Glen Merkley and reviewed by Robert Turner.

All of which is respectfully submitted



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Team Leader

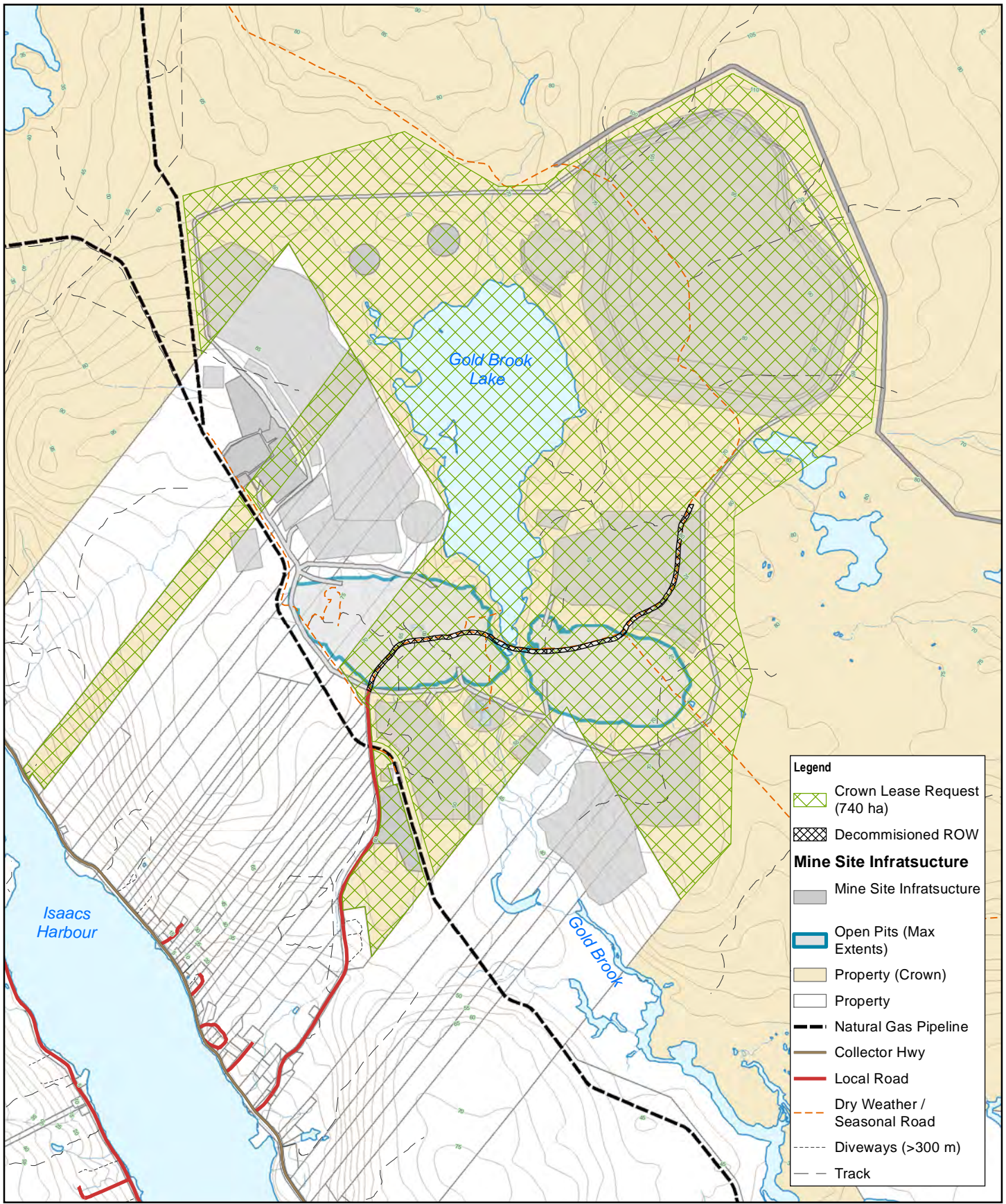
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rob.turner@ghd.com

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Appendix A

Figures

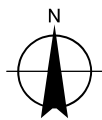
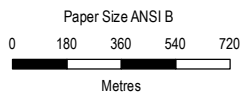


Legend

- Crown Lease Request (740 ha)
- Decommissioned ROW

Mine Site Infrastructure

- Mine Site Infrastructure
- Open Pits (Max Extents)
- Property (Crown)
- Property
- Natural Gas Pipeline
- Collector Hwy
- Local Road
- Dry Weather / Seasonal Road
- Diveways (>300 m)
- Track



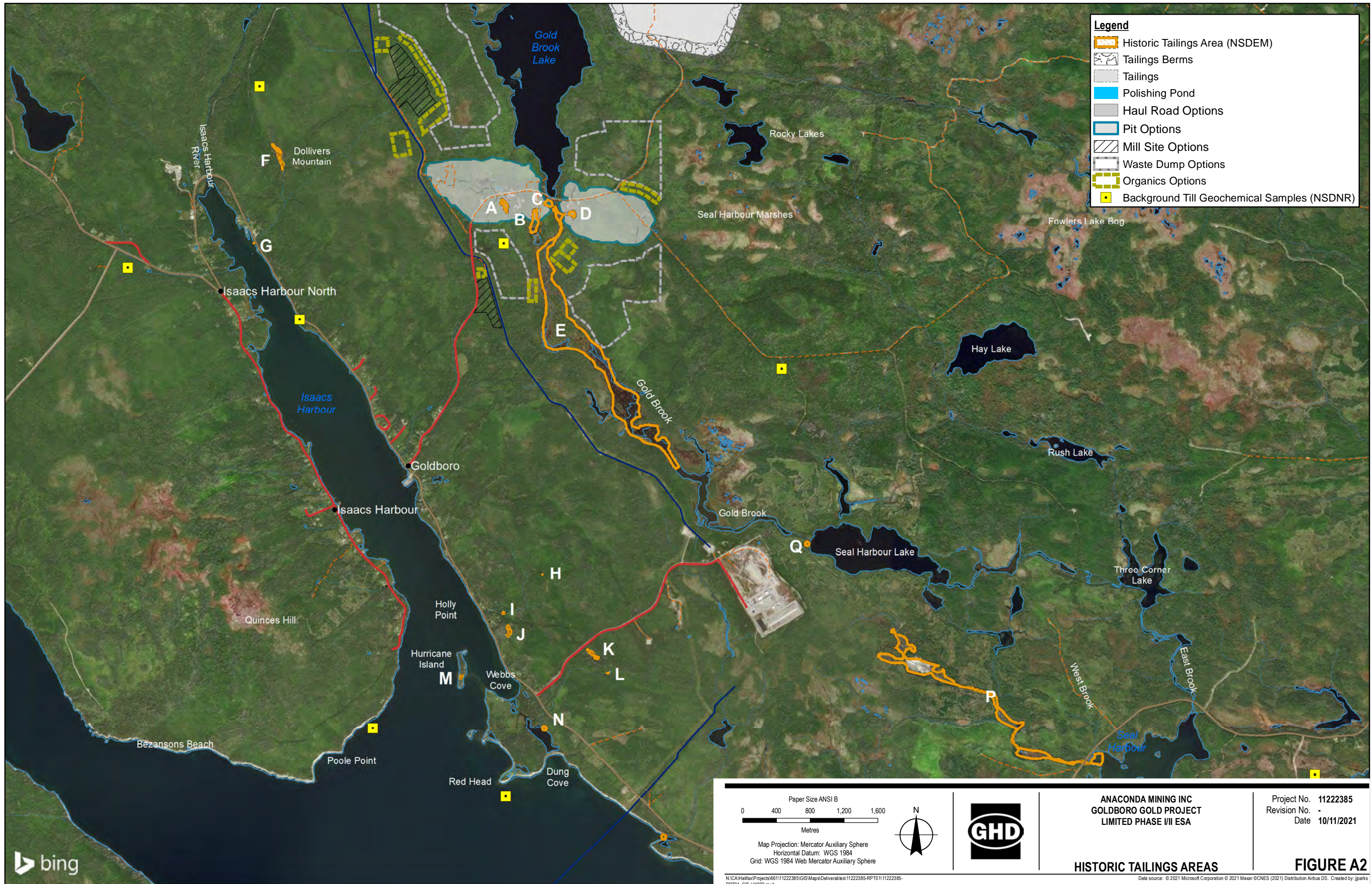
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 LIMITED PHASE VII ESA

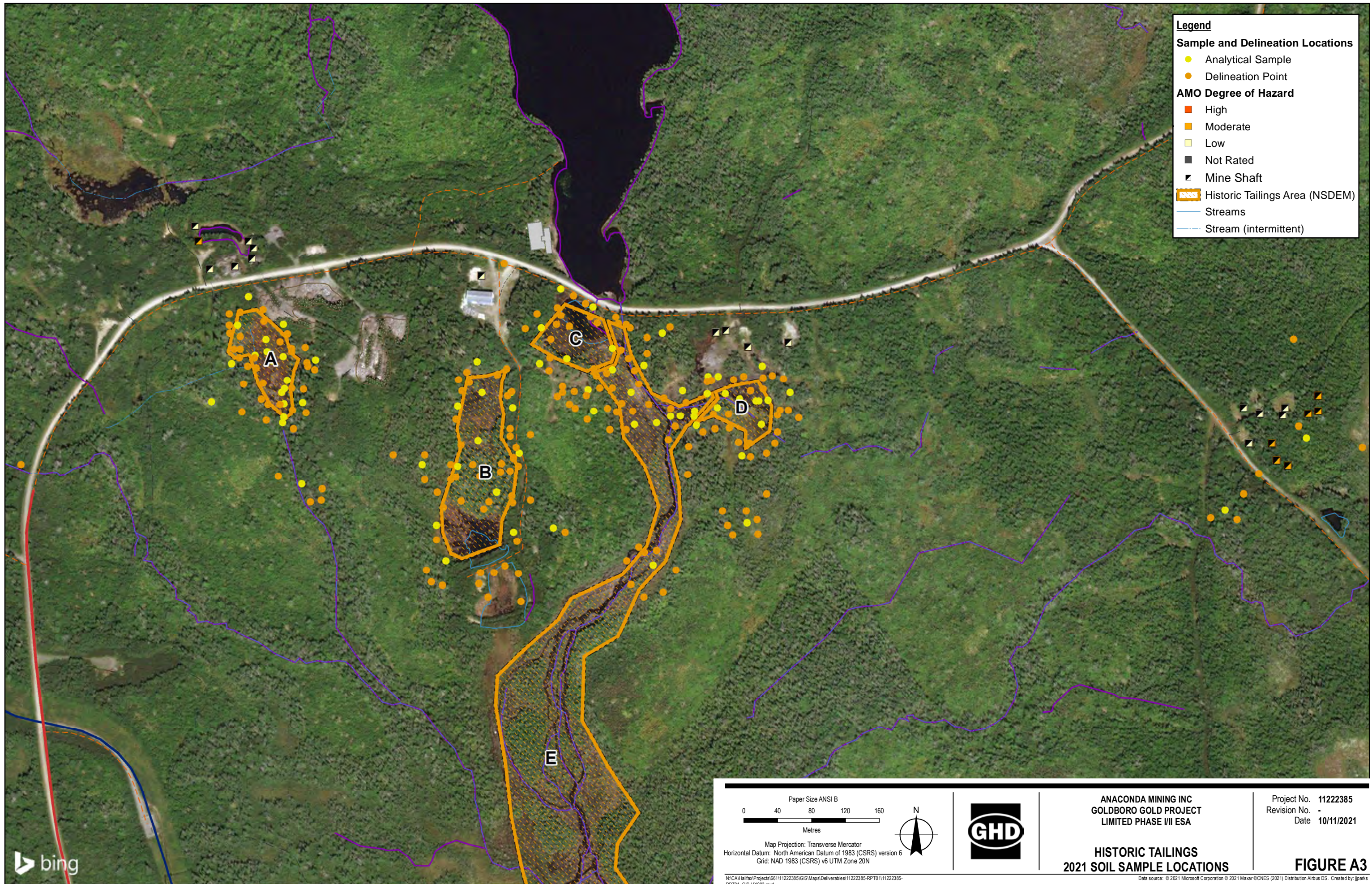
Project No. 11222385
 Revision No. -
 Date 10/11/2021

Map Projection: Transverse Mercator
 Horizontal Datum: North American 1983 CSRS
 Grid: NAD 1983 CSRS MTM 4

SITE PLAN

FIGURE A1





Legend

Sample and Delineation Locations

- Analytical Sample
- Delineation Point

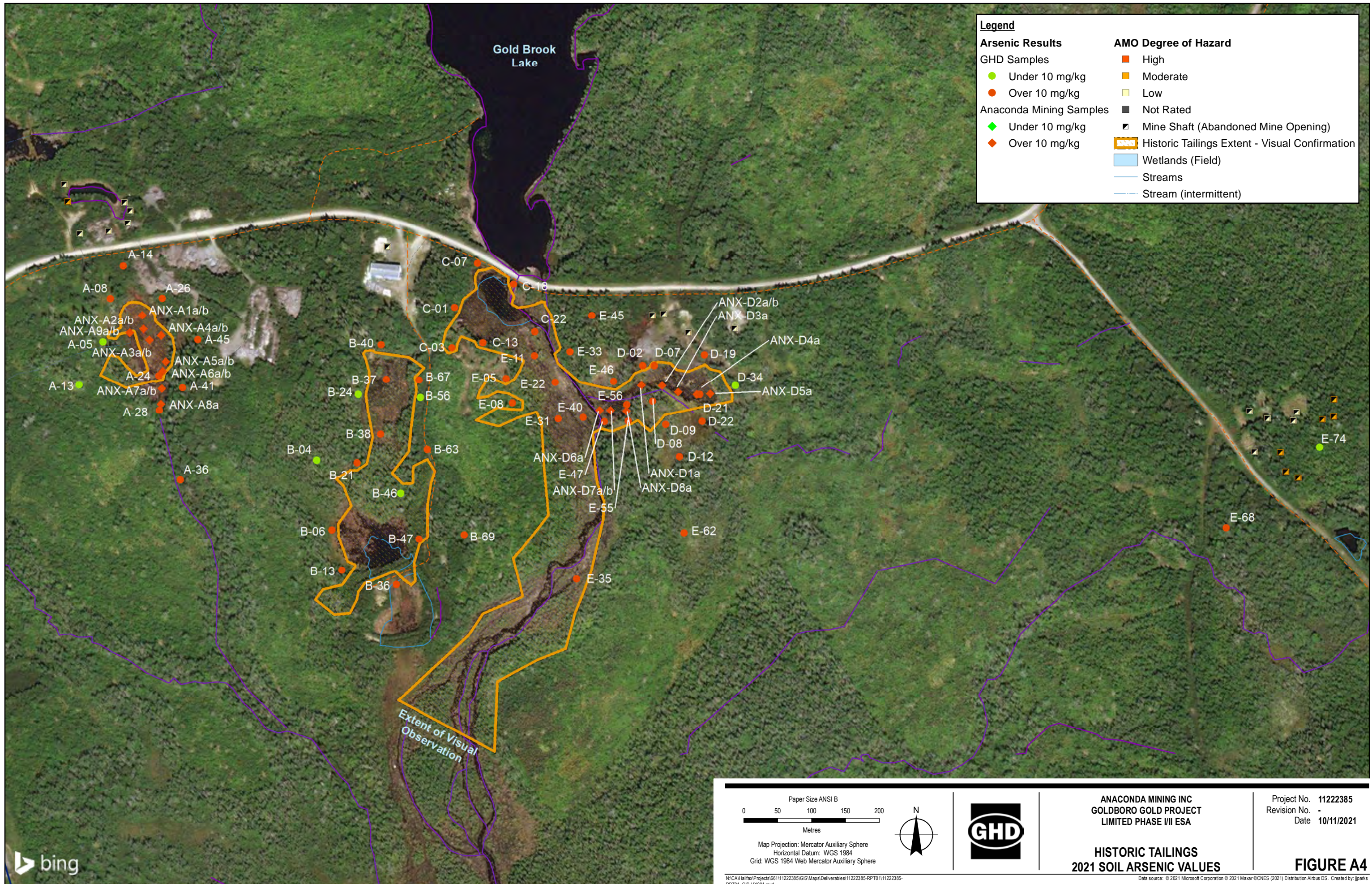
AMO Degree of Hazard

- High
- Moderate
- Low
- Not Rated
- Mine Shaft
- ▨ Historic Tailings Area (NSDEM)
- Streams
- - - Stream (intermittent)

| | | | | |
|---|--|--|---|--|
| Paper Size ANSI B 0 40 80 120 160 Metres | | | ANACONDA MINING INC GOLDBORO GOLD PROJECT LIMITED PHASE I/II ESA | Project No. 1122385 Revision No. - Date 10/11/2021 |
| Map Projection: Transverse Mercator Horizontal Datum: North American Datum of 1983 (CSRS) version 6 Grid: NAD 1983 (CSRS) v6 UTM Zone 20N | | | HISTORIC TAILINGS 2021 SOIL SAMPLE LOCATIONS | |
| | | | FIGURE A3 | |

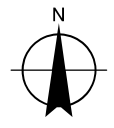
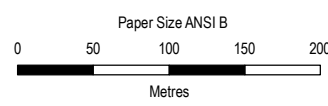


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 Print date: 10 Nov 2021 - 17:21
 Data source: © 2021 Microsoft Corporation © 2021 Maxar ©CNES (2021) Distribution Airbus DS. Created by: jpark



Legend

| | |
|-------------------------|--|
| Arsenic Results | AMO Degree of Hazard |
| GHD Samples | High |
| ● Under 10 mg/kg | Moderate |
| ● Over 10 mg/kg | Low |
| Anaconda Mining Samples | ■ Not Rated |
| ◆ Under 10 mg/kg | ■ Mine Shaft (Abandoned Mine Opening) |
| ◆ Over 10 mg/kg | ■ Historic Tailings Extent - Visual Confirmation |
| | ■ Wetlands (Field) |
| | — Streams |
| | — Stream (intermittent) |



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 Revision No. -
 Date 10/11/2021

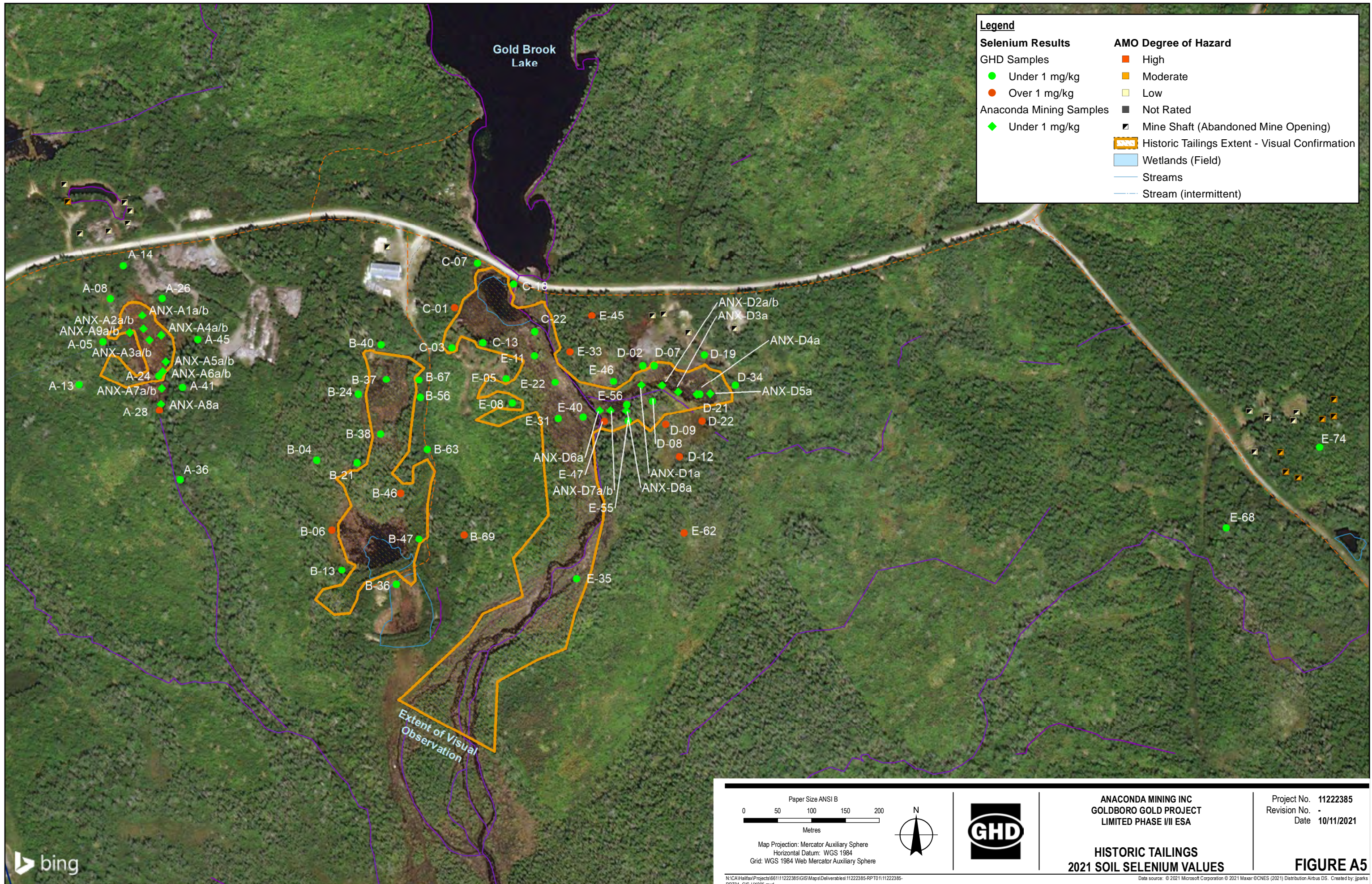
**HISTORIC TAILINGS
 2021 SOIL ARSENIC VALUES**

FIGURE A4



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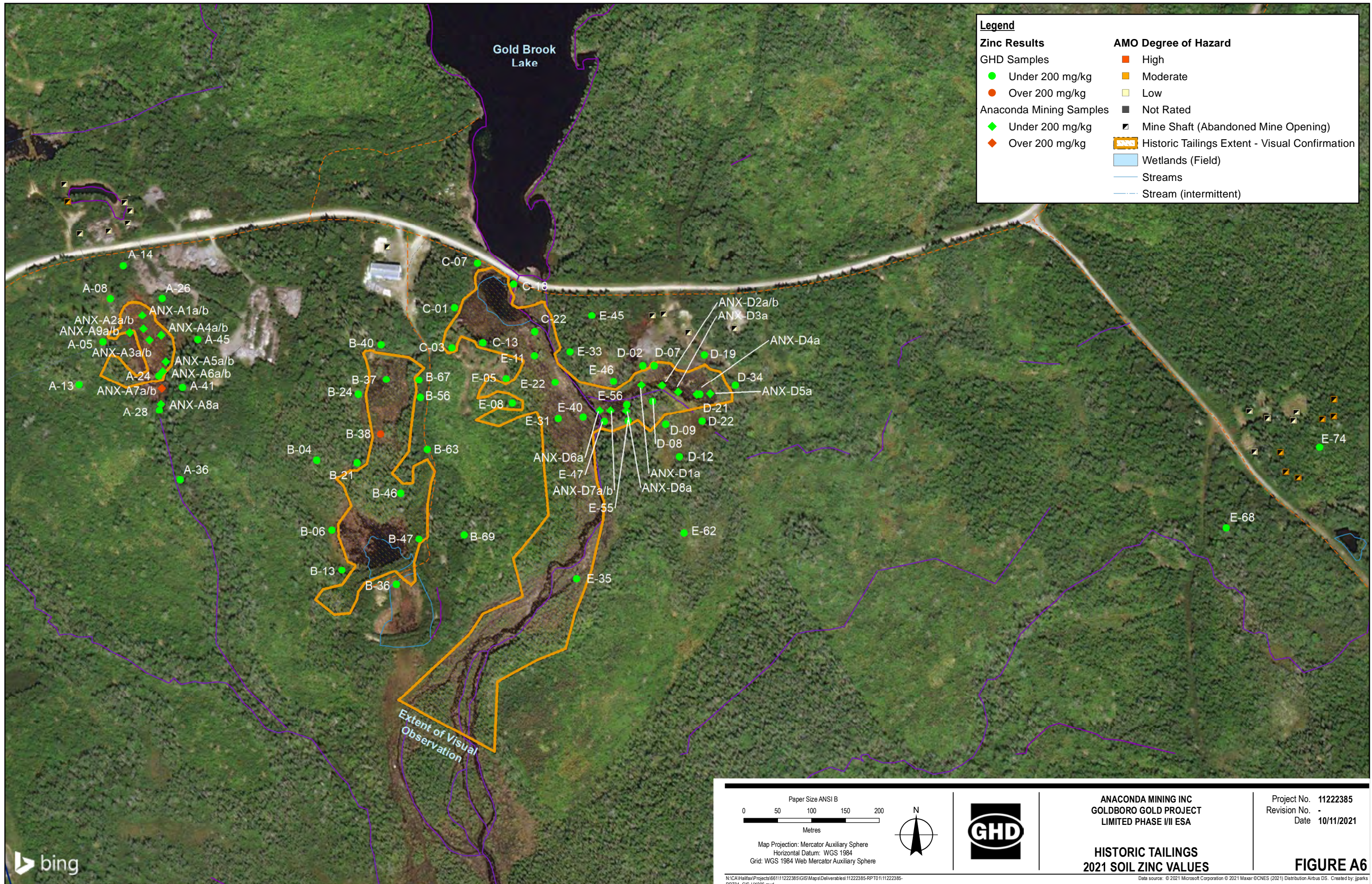
Legend

| | |
|-------------------------|--|
| Selenium Results | AMO Degree of Hazard |
| GHD Samples | High |
| ● Under 1 mg/kg | Moderate |
| ● Over 1 mg/kg | Low |
| Anaconda Mining Samples | ■ Not Rated |
| ◆ Under 1 mg/kg | ■ Mine Shaft (Abandoned Mine Opening) |
| | ■ Historic Tailings Extent - Visual Confirmation |
| | ■ Wetlands (Field) |
| | — Streams |
| | — Stream (intermittent) |

| | | | | |
|--|--|--|---|--|
| <p>Paper Size ANSI B</p> <p>Metres</p> | | | <p>ANACONDA MINING INC GOLDBORO GOLD PROJECT LIMITED PHASE I/II ESA</p> | <p>Project No. 11222385 Revision No. - Date 10/11/2021</p> |
| <p>Map Projection: Mercator Auxiliary Sphere Horizontal Datum: WGS 1984 Grid: WGS 1984 Web Mercator Auxiliary Sphere</p> | | | <p>HISTORIC TAILINGS 2021 SOIL SELENIUM VALUES</p> | <p>FIGURE A5</p> |



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Legend

| | |
|-------------------------|--|
| Zinc Results | AMO Degree of Hazard |
| GHD Samples | High |
| ● Under 200 mg/kg | Moderate |
| ● Over 200 mg/kg | Low |
| Anaconda Mining Samples | ■ Not Rated |
| ◆ Under 200 mg/kg | ■ Mine Shaft (Abandoned Mine Opening) |
| ◆ Over 200 mg/kg | ■ Historic Tailings Extent - Visual Confirmation |
| | ■ Wetlands (Field) |
| | — Streams |
| | — Stream (intermittent) |

| | | | | |
|---|--|--|---|--|
| <p>Paper Size ANSI B</p> <p>Metres</p> <p>Map Projection: Mercator Auxiliary Sphere Horizontal Datum: WGS 1984 Grid: WGS 1984 Web Mercator Auxiliary Sphere</p> | | | <p>ANACONDA MINING INC GOLDBORO GOLD PROJECT LIMITED PHASE I/II ESA</p> <p>HISTORIC TAILINGS 2021 SOIL ZINC VALUES</p> | <p>Project No. 11222385 Revision No. - Date 10/11/2021</p> |
| | | | <p>FIGURE A6</p> | |



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Print date: 10 Nov 2021 - 18:32
Data source: © 2021 Microsoft Corporation © 2021 Maxar © CNES (2021) Distribution Airbus DS. Created by: jpark

Appendix B

Historic Tailings Screening Table

| Area Details | Tailings Area A | Tailings Area B | Tailings Area C | Tailings Area D |
|--|----------------------------------|--|-----------------------------------|-----------------------------------|
| Previous Literature Reference Name(s) | Goldboro (Richardson) | Goldboro | Coldboro Main (Boston-Richardson) | Coldboro Main (Boston-Richardson) |
| Land Ownership (Crown/Non Crown) | Crown | Crown | Crown | Crown |
| Approx. Center Location (Easting/Northing) | 606675E;5006270N | 606925E;5006135N | 607035E;5006295N | 607240E;5006210N |
| Elevation (masl) | 60 | 53 | 53 | 53 |
| Approx. Area (ha) | 0.63 | 1.42 | 0.41 | 0.46 |
| Approx. Depth/Thickness (m) | Unknown | Unknown | Unknown | Unknown |
| Geochemistry Data Exists | Yes | Yes | Yes | Yes |
| Contaminants of Concern | As, Hg | As, Hg | As, Hg | As, Hg |
| Located within Exploration License Area? | Yes | Yes | Yes | Yes |
| Located within Proposed Mine Pit? | Yes | Yes | Yes | Yes |
| Located Within Proposed TMF? | No | No | No | No |
| Direct Disturbance by Mine Ops? | Yes | Yes | Yes | Yes |
| Indirect Disturbance by Mine Ops? | Likely | Likely | Likely | Likely |
| Deposit Environment | Wetland | Wetland | Wetland | Wetland |
| Underlying Lithology | Stony Till Plain | Stony Till Plain | Stony Till Plain | Stony Till Plain |
| Proximity to Potential Receptor | 500 m | 200 m | 0 m | 100 m |
| Type of Potential Receptor | Gold Brook | Gold Brook | Gold Brook | Gold Brook |
| Distance to nearest Residence | >2km | >2km | >2km | >2km |
| Potential Migration Pathway | Surface/Groundwater, Disturbance | Surface/Groundwater, Disturbance | Surface/Groundwater, Disturbance | Surface/Groundwater, Disturbance |
| Engineering Considerations | Pit wall design; access roads | Pit wall design; access roads; Settling Pond | Pit wall design; access roads | Pit wall design; access roads |
| Ecological Considerations | Wetland; Fish, others? | Wetland; Fish, others? | Wetland; Fish, others? | Wetland; Fish, others? |
| Human Health / Recreational Considerations | Mine workers / Trespassers | Mine workers / Trespassers | Mine workers / Trespassers | Mine workers / Trespassers |
| Environment / Water Considerations | Wetland / Gold Brook | Wetland / Gold Brook | Wetland / Gold Brook | Wetland / Gold Brook |

| Area Details | Tailings Area E & E' | Tailings Area F | Tailings Area G | Tailings Area H | Tailings Area I |
|--|-----------------------------------|----------------------------------|----------------------------|-----------------------------|---------------------------------------|
| Previous Literature Reference Name(s) | Coldboro Main (Boston-Richardson) | Goldboro (Dolliver Mountain) | Isaac's Harbour (Butler) | Isaac's Harbour (Goldfinch) | Isaac's Harbour (Mulgrave, Gallagher) |
| Land Ownership (Crown/Non Crown) | Both | Both | Non-Crown | Non-Crown | Non-Crown |
| Approx. Center Location (Easting/Northing) | 607111E;5005398N | 604795E;5006628N | 604587E;5005921N | 607037E;5003205N | 606718E;5002882N |
| Elevation (masl) | variable (30-50) | 56 | 0 | 53 | 31 |
| Approx. Area (ha) | 38.9 | 1.04 | 0.06 | 0.05 | 0.12 |
| Approx. Depth/Thickness (m) | Unknown | Unknown | Unknown | Unknown | Unknown |
| Geochemistry Data Exists | Yes | No | No | No | No |
| Contaminants of Concern | As, Hg | | | | |
| Located within Exploration License Area? | Yes | Yes | Yes | No | No |
| Located within Proposed Mine Pit? | Possible | No | No | No | No |
| Located Within Proposed TMF? | No | No | No | No | No |
| Direct Disturbance by Mine Ops? | Possible | Not Likely | Not Likely | No | No |
| Indirect Disturbance by Mine Ops? | Possible | Not Likely | Not Likely | Not Likely | Not Likely |
| Deposit Environment | Wetland/Brook | Wetland | Kame/Esker (coastal inlet) | | |
| Underlying Lithology | Stony Till Plain | Stony Till Plain | Kame/Esker | Stony Till Plain | Stony Till Plain |
| Proximity to Potential Receptor | 0 m | 500 m | 0 m | | |
| Type of Potential Receptor | Gold Brook | Coastal Inlet | Coastal Inlet | | |
| Distance to nearest Residence | >2km | ~ 500m | 65m (location assumed) | | |
| Potential Migration Pathway | Surface/Groundwater, Disturbance | Surface/Groundwater, Disturbance | | | |
| Engineering Considerations | Pit wall design; access roads | N/A | N/A | N/A | N/A |
| Ecological Considerations | Wetland; Fish, others? | Wetland | | | |
| Human Health / Recreational Considerations | Mine workers / Trespassers | | | | |
| Environment / Water Considerations | Wetland / Gold Brook | N/A | Coastal inlet | | |

| Area Details | Tailings Area J | Tailings Area K | Tailings Area L | Tailings Area M | Tailings Area N | Tailings Area O |
|--|---|---|---|---------------------------------------|---------------------------|-------------------------------------|
| Previous Literature Reference Name(s) | Isaac's Harbour (Sweet, Stormont, Victory) | Isaac's Harbour (Roeland, Skunk Den, Giffin, Eureka) | Isaac's Harbour (Roeland, Skunk Den, Giffin, Eureka) | Isaac's Harbour (Hurricane Island) | Isaac's Harbour (Griffin) | Isaac's Harbour (Buckley/Hattie) |
| Land Ownership (Crown/Non Crown) | Non-Crown | Non-Crown | Non-Crown | Non-Crown | Non-Crown | Non-Crown |
| Approx. Center Location (Easting/Northing) | 606775E;5002735N | 607495E;5002535N | 607580E;5002400N | 606375E;5002345N | 607080E;5001930N | 608085E;5001045N |
| Elevation (masl) | 30 | 40 | 34 | 2 | 7 | 0 |
| Approx. Area (ha) | 0.13 | 0.36 | 0.2 | 0.04 | 0.3 | 0.31 |
| Approx. Depth/Thickness (m) | Unknown | Unknown | Unknown | Unknown | Unknown | Unknown |
| Geochemistry Data Exists | No | No | No | No | No | No |
| Contaminants of Concern | | | | | | |
| Located within Exploration License Area? | No | No | No | No | No | No |
| Located within Proposed Mine Pit? | No | No | No | No | No | No |
| Located Within Proposed TMF? | No | No | No | No | No | No |
| Direct Disturbance by Mine Ops? | No | No | No | No | No | No |
| Indirect Disturbance by Mine Ops? | Not Likely | Not Likely | Not Likely | Not Likely | Not Likely | Not Likely |
| Deposit Environment | | | | Island | Coastal inlet | Coastal inlet |
| Underlying Lithology | Stony Till Plain | Stony Till Plain | Stony Till Plain | Stony Till Plain | Stony Till Plain | Stony Till Plain |
| Proximity to Potential Receptor | | | | | | |
| Type of Potential Receptor | | | | | | |
| Distance to nearest Residence | | | | | | |
| Potential Migration Pathway | | | | | | |
| Engineering Considerations | N/A | N/A | N/A | N/A | N/A | N/A |
| Ecological Considerations | | | | | | |
| Human Health / Recreational Considerations | | | | | | |
| Environment / Water Considerations | | | | | | |

| Area Details | Tailings Area P | Tailings Area Q |
|--|--|----------------------------------|
| Previous Literature Reference Name(s) | Lower Seal Harbour (Beaver Hat, Sydney, Seal Harbour) | N/A (new area of interest) |
| Land Ownership (Crown/Non Crown) | Both | Crown |
| Approx. Center Location (Easting/Northing) | 610790E;5002260N | 607855E;5006160N |
| Elevation (masl) | 17 | 70 |
| Approx. Area (ha) | 17.38 | TBD |
| Approx. Depth/Thickness (m) | Unknown | Unknown |
| Geochemistry Data Exists | Yes | No |
| Contaminants of Concern | As, Hg | As, Hg |
| | | |
| Located within Exploration License Area? | No | Yes |
| Located within Proposed Mine Pit? | No | No |
| Located Within Proposed TMF? | No | No |
| Direct Disturbance by Mine Ops? | No | No |
| Indirect Disturbance by Mine Ops? | Not Likely | Not Likely |
| | | |
| Deposit Environment | Stream/Wetland | Wetland |
| Underlying Lithology | Stony Till Plain | Stony Till Plain |
| Proximity to Potential Receptor | 0 m | 1000 m |
| Type of Potential Receptor | Gold Brook and Harbour | Gold Brook |
| Distance to nearest Residence | 350 m + | >2 km |
| Potential Migration Pathway | Surface/Groundwater | Surface/Groundwater, Disturbance |
| | | |
| Engineering Considerations | N/A | Access Roads |
| Ecological Considerations | Fish & Shellfish species | Wetland; Species? |
| Human Health / Recreational Considerations | Fish consumption | Mine workers / Trespassers |
| Environment / Water Considerations | Brook / Harbour | Wetland / Gold Brook |

Appendix C

Site Photographs



PHOTO 1 - NORTHEAST VIEW OF WETLAND IN AREA A



PHOTO 2 - SOIL SAMPLE AT DELINEATION POINT A-06



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LIMITED PHASE I/II ESA

Project No. 1122385
Date August 2021

PHOTOGRAPHIC LOG

FIGURE C1



PHOTO 3 - SOIL SAMPLE WITH TAILINGS PRESENT AT DELINEATION POINT A-10



PHOTO 4 - SOUTHEAST VIEW OF WETLAND IN AREA B



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Date August 2021

PHOTOGRAPHIC LOG

FIGURE C2



PHOTO 5 - SOIL SAMPLE AT DELINEATION POINT B-31



PHOTO 6 - SOIL SAMPLE WITH TAILINGS PRESENT AT DELINEATION POINT B-09



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PHOTOGRAPHIC LOG

FIGURE C3



PHOTO 7 - SOUTHERN VIEW OF WETLAND IN AREA C

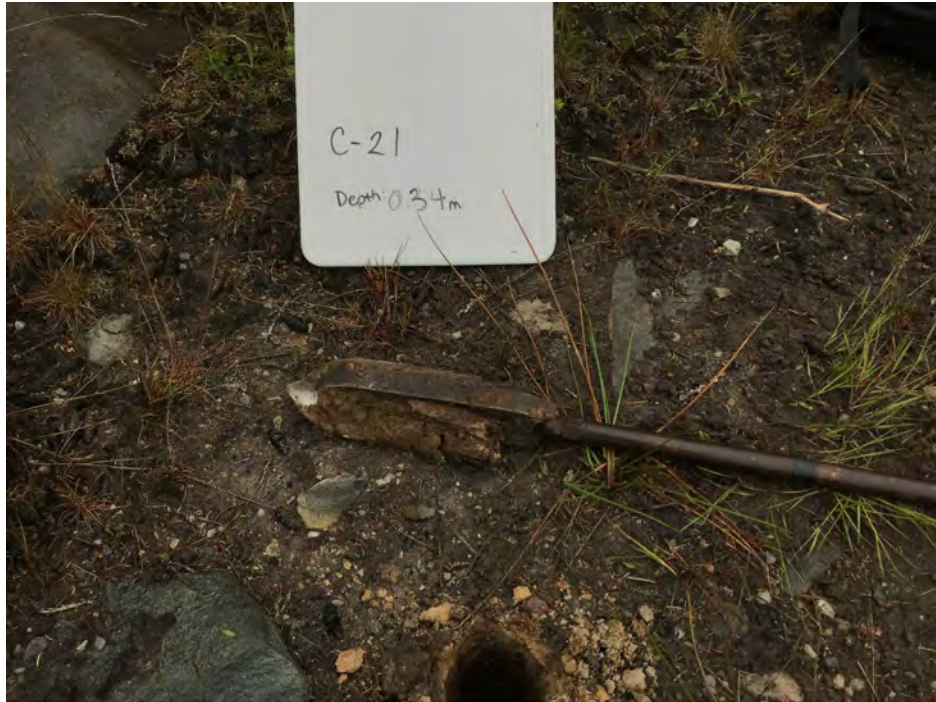


PHOTO 8 - SOIL SAMPLE AT DELINEATION POINT C-21



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PHOTOGRAPHIC LOG

FIGURE C4



PHOTO 9 - SOIL SAMPLE WITH TAILINGS PRESENT AT DELINEATION POINT C-15



PHOTO 10 - WESTERN VIEW OF WETLAND IN AREA D



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Date August 2021

PHOTOGRAPHIC LOG

FIGURE C5



PHOTO 11 - SOIL SAMPLE WITH TAILINGS PRESENT AT DELINEATION POINT D-15



PHOTO 12 - WESTERN VIEW OF WETLAND IN AREA E



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 Date August 2021

PHOTOGRAPHIC LOG

FIGURE C6



PHOTO 13 - SOUTHWEST VIEW OF WETLAND IN AREA E



PHOTO 14 - SOIL SAMPLE WITH TAILINGS PRESENT AT DELINEATION POINT E



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 LIMITED PHASE I/II ESA

Project No. 11222385
 Date August 2021

PHOTOGRAPHIC LOG

FIGURE C7

Appendix D

Analytical Results

**Table D.1: Available Metal Concentrations in Soil Samples
Goldboro Gold Mine Project, Guysborough County, NS**

| Parameters | Units | NS Tier 1 EQS (Potable, Industrial, Coarse Grained) ^a | CCME SQG _{HH} (Industrial) ^b | CCME SQG _E (Industrial) ^b | GHD | | | | | | | | | | | | | | | | | | |
|-----------------|-----------|--|---|--|------------------|-------------|------------|-------------|-------------|-------------|------------|-------------|-------------|-----------|-----------------------|-------------|------------|-------------|-------------|-----------|------------|-------------|-----------------------|
| | | | | | A-05 | A-08 | A-13 | A-14 | A-24 | A-26 | A-28 | A-36 | A-41 | A-45 | DUP-A (FD of A-45) | B-04 | B-06 | B-13 | B-21 | B-24 | B-36 | B-37 | DUP-B (FD of B-37) |
| | | | | | Sample Depth (m) | 0.15 - 0.25 | 0.10 - 0.3 | 0.10 - 0.32 | 0.3 - 0.5 | 0.25 - 0.45 | 0.1 - 0.4 | 0.10 - 0.23 | 0.05 - 0.30 | 0.1 - 1.0 | 0.05 - 0.66 | 0.05 - 0.66 | 0.2 - 0.5 | 0.15 - 0.22 | 0.10 - 0.23 | 0.1 - 0.3 | 0.3 - 0.8 | 0.05 - 0.3 | 0.1 - 0.2 |
| Sample Date | 14-Jun-21 | 14-Jun-21 | 14-Jun-21 | 14-Jun-21 | 14-Jun-21 | 14-Jun-21 | 14-Jun-21 | 14-Jun-21 | 14-Jun-21 | 14-Jun-21 | 14-Jun-21 | 14-Jun-21 | 15-Jun-21 | 15-Jun-21 | 15-Jun-21 | 15-Jun-21 | 15-Jun-21 | 15-Jun-21 | 15-Jun-21 | 15-Jun-21 | 15-Jun-21 | 15-Jun-21 | |
| Aluminum (Al) | mg/kg | 220000 | No Guideline | No Guideline | 3700 | 7800 | 7700 | 13000 | 13000 | 11000 | 9700 | 11000 | 5900 | 20000 | 19000 | 4900 | 4100 | 12000 | 8400 | 8600 | 8800 | 15000 | 13000 |
| Antimony (Sb) | mg/kg | 63 | 40 | 40 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | 4.3 | 5.1 |
| Arsenic (As) | mg/kg | 10 | 31 ^c | 26 | 6.1 | 86 | 5.4 | 2000 | 1900 | 160 | 560 | 15 | 13 | 14 | 15 | 6.5 | 29 | 17 | 2400 | 4.3 | 280 | 9500 | 11000 |
| Barium (Ba) | mg/kg | 350 | 96000 | 2000 | 11 | 38 | 27 | 63 | 61 | 51 | 51 | 18 | 7.9 | 26 | 27 | 12 | 14 | 36 | 38 | 19 | 37 | 82 | 72 |
| Beryllium (Be) | mg/kg | 1 | 1100 | 8 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 |
| Bismuth (Bi) | mg/kg | No Guideline | No Guideline | No Guideline | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 |
| Boron (B) | mg/kg | 24000 | No Guideline | No Guideline | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 |
| Cadmium (Cd) | mg/kg | 1 | 192 | 22 | <0.30 | <0.30 | <0.30 | 0.35 | 0.38 | <0.30 | 0.54 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | 0.32 | <0.30 | <0.30 | <0.30 | <0.30 |
| Chromium (Cr) | mg/kg | 6700 | 2300 | 87 | 5.8 | 15 | 12 | 22 | 17 | 19 | 9.9 | 14 | 7.3 | 22 | 24 | 8.4 | 4.2 | 20 | 15 | 11 | 14 | 23 | 20 |
| Cobalt (Co) | mg/kg | 25 | 300 | 300 | <1.0 | 2.8 | 2.8 | 14 | 7.2 | 20 | 8.1 | 2.2 | <1.0 | 4.3 | 4.5 | 1.6 | <1.0 | 2.7 | 8.2 | 1.8 | 4.6 | <1.0 | 1.4 |
| Copper (Cu) | mg/kg | 250 | 16000 | 91 | <2.0 | 4.5 | 2 | 26 | 17 | 5.6 | 12 | 3.3 | <2.0 | 8.3 | 9.1 | <2.0 | 3 | <2.0 | 6.7 | 2.4 | 11 | 3 | 7.6 |
| Iron (Fe) | mg/kg | 164000 | No Guideline | No Guideline | 3700 | 12000 | 7900 | 28000 | 20000 | 13000 | 10000 | 13000 | 8400 | 19000 | 19000 | 4300 | 1300 | 15000 | 12000 | 6000 | 13000 | 32000 | 31000 |
| Lead (Pb) | mg/kg | 120 | 740 | 6000 | 4.9 | 8.8 | 4.4 | 48 | 47 | 8.7 | 39 | 6.4 | 3.1 | 8.8 | 9.3 | 4.7 | 13 | 6.9 | 13 | 8.6 | 11 | 24 | 48 |
| Lithium (Li) | mg/kg | No Guideline | No Guideline | No Guideline | 3.5 | 11 | 11 | 26 | 27 | 17 | 8 | 9 | 6.8 | 19 | 19 | 5.2 | <2.0 | 12 | 10 | 13 | 17 | 27 | 22 |
| Manganese (Mn) | mg/kg | 2000 | No Guideline | No Guideline | 51 | 140 | 110 | 890 | 1200 | 1500 | 1100 | 100 | 43 | 150 | 160 | 69 | 13 | 150 | 140 | 100 | 260 | 380 | 310 |
| Methyl Mercury | mg/kg | No Guideline | No Guideline | No Guideline | - | - | - | 0.00289 | 0.0122 | - | - | 0.0044 | - | - | - | - | - | - | - | - | 0.0111 | 0.00116 | - |
| Mercury (Hg) | mg/kg | 99 | 99 | 50 | <0.10 | <0.10 | <0.10 | 0.45 | 3.2 | <0.10 | 0.82 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 0.22 | <0.10 | 1.8 | <0.10 | 0.75 | 6.2 | 4.5 |
| Molybdenum (Mo) | mg/kg | 15 | 40 | 40 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 |
| Nickel (Ni) | mg/kg | 70 | 2500 | 89 | 2.9 | 8.7 | 7.8 | 23 | 15 | 15 | 9 | 6.6 | 3.1 | 13 | 13 | 4.9 | 2.3 | 8.6 | 18 | 6.4 | 11 | 7.9 | 8 |
| Rubidium (Rb) | mg/kg | No Guideline | No Guideline | No Guideline | 4.6 | 14 | 12 | 23 | 17 | 17 | 7.6 | 7.3 | 3.5 | 9.8 | 11 | 4.2 | 3.3 | 11 | 12 | 9.1 | 16 | 53 | 43 |
| Selenium (Se) | mg/kg | 1 | 1135 | 2.9 | <0.50 | <0.50 | <0.50 | 0.53 | 0.92 | 0.58 | 1.8 | 0.65 | <0.50 | 0.84 | 0.87 | <0.50 | 1.1 | 0.65 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| Silver (Ag) | mg/kg | 490 | 40 | 40 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| Strontium (Sr) | mg/kg | 140000 | No Guideline | No Guideline | <5.0 | <5.0 | <5.0 | 18 | 46 | <5.0 | 57 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 8.9 | <5.0 | 8.4 | <5.0 | <5.0 | <5.0 | <5.0 |
| Thallium (Tl) | mg/kg | 1 | 1 | 3.6 | <0.10 | 0.12 | <0.10 | 0.29 | 0.29 | 0.16 | 0.21 | <0.10 | <0.10 | 0.1 | 0.11 | <0.10 | <0.10 | 0.1 | 0.13 | <0.10 | 0.12 | 0.37 | 0.33 |
| Tin (Sn) | mg/kg | 140000 | 300 | 300 | <1.0 | <1.0 | <1.0 | 1.3 | 1.3 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1 | <1.0 | <1.0 | <1.0 | 2.1 | <1.0 |
| Uranium (U) | mg/kg | 30 | 300 | 2000 | 0.51 | 0.48 | 0.47 | 1.3 | 1.8 | 0.66 | 1.6 | 0.61 | 0.46 | 0.7 | 0.81 | 0.4 | 0.62 | 0.61 | 0.58 | 1.2 | 0.65 | 0.53 | 0.39 |
| Vanadium (V) | mg/kg | 100 | No Guideline | 130 | 7 | 21 | 13 | 28 | 19 | 23 | 16 | 29 | 18 | 23 | 24 | 14 | 5.7 | 38 | 20 | 10 | 18 | 26 | 24 |
| Zinc (Zn) | mg/kg | 200 | 140000 | 410 | 7 | 19 | 16 | 84 | 80 | 41 | 67 | 17 | 6.7 | 30 | 30 | 8.5 | <5.0 | 17 | 160 | 11 | 33 | 42 | 39 |

Notes:
Shaded Result exceeds NS Tier 1 EQS
Bold Result exceeds CCME SQG_{HH}
Red Result exceeds CCME SQG_E

- a. Nova Scotia, 2021. Tier 1 Environmental Quality Standards for Soil at a Potable Site (Industrial land use and coarse grained soil).
- b. Canadian Council of Ministers of the Environment, 1999. Canadian Soil Quality Guidelines for the Protection of Environmental and Human Health.
- c. Value has been adjusted from its original jurisdictional value to reflect a 1 x 10⁻⁰⁵ Target Cancer Risk Level.

**Table D.1: Available Metal Concentrations in Soil Samples
Goldboro Gold Mine Project, Guysborough County, NS**

| Parameters | Units | NS Tier 1 EQS (Potable, Industrial, Coarse Grained) ^a | CCME SQG _{HH} (Industrial) ^b | CCME SQG _E (Industrial) ^b | GHD | | | | | | | | | | | | | | | | | | | |
|------------------|-------|--|---|--|------------|------------|-------------|-------------|-----------|------------|-----------|-----------|-------------|-------------|-----------------------|------------|------------|------------|------------|-----------|-----------|-----------------------|-----------|-----------|
| | | | | | B-38 | B-40 | B-46 | B-47 | B-56 | B-63 | B-67 | B-69 | C-01 | C-03 | DUP-C (FD of C-03) | C-07 | C-13 | C-18 | C-22 | D-02 | D-07 | DUP-D (FD of D-07) | D-08 | |
| Sample Depth (m) | | | | | 0.05 - 0.2 | 0.08 - 0.3 | 0.05 - 0.25 | 0.03 - 0.14 | 0.1 - 0.4 | 0.05 - 0.3 | 0.1 - 0.5 | 0.1 - 0.3 | 0.25 - 0.45 | 0.07 - 0.27 | 0.07 - 0.27 | 0.1 - 0.25 | 0.01 - 0.2 | 0.1 - 0.22 | 0.05 - 0.2 | 0.0 - 0.3 | 0.1 - 0.6 | 0.1 - 0.6 | 0.1 - 0.6 | |
| Sample Date | | | | | 15-Jun-21 | 15-Jun-21 | 15-Jun-21 | 15-Jun-21 | 15-Jun-21 | 15-Jun-21 | 15-Jun-21 | 15-Jun-21 | 15-Jun-21 | 16-Jun-21 | 16-Jun-21 | 16-Jun-21 | 16-Jun-21 | 16-Jun-21 | 16-Jun-21 | 16-Jun-21 | 16-Jun-21 | 16-Jun-21 | 16-Jun-21 | 16-Jun-21 |
| Aluminum (Al) | mg/kg | 220000 | No Guideline | No Guideline | 19000 | 6500 | 1000 | 6700 | 6600 | 11000 | 9600 | 6700 | 29000 | 5000 | 6800 | 8900 | 22000 | 10000 | 14000 | 13000 | 12000 | 11000 | 4300 | |
| Antimony (Sb) | mg/kg | 63 | 40 | 40 | 3.9 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | 3.4 | <2.0 | 4.8 | 2.3 | 8.9 | 8 | <2.0 | |
| Arsenic (As) | mg/kg | 10 | 31 ^c | 26 | 4000 | 2200 | 5.3 | 23 | 8.3 | 200 | 23 | 13 | 100 | 200 | 250 | 410 | 4900 | 860 | 8600 | 3300 | 11000 | 9900 | 380 | |
| Barium (Ba) | mg/kg | 350 | 96000 | 2000 | 84 | 29 | 33 | 29 | 31 | 44 | 7 | 23 | 13 | 8.1 | 13 | 33 | 140 | 45 | 71 | 68 | 67 | 61 | 8.3 | |
| Beryllium (Be) | mg/kg | 1 | 1100 | 8 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | |
| Bismuth (Bi) | mg/kg | No Guideline | No Guideline | No Guideline | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | |
| Boron (B) | mg/kg | 24000 | No Guideline | No Guideline | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | |
| Cadmium (Cd) | mg/kg | 1 | 192 | 22 | 1 | <0.30 | 0.33 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | 0.35 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | |
| Chromium (Cr) | mg/kg | 6700 | 2300 | 87 | 22 | 12 | <2.0 | 11 | 11 | 18 | 8.6 | 8.9 | 24 | 8 | 11 | 13 | 33 | 29 | 21 | 21 | 19 | 19 | 5.9 | |
| Cobalt (Co) | mg/kg | 25 | 300 | 300 | 20 | 3.4 | <1.0 | 4.4 | 4.2 | 5.4 | <1.0 | 1.2 | 2.1 | 1.1 | 1.7 | 4 | 12 | 4.8 | 1.2 | 2.7 | 1 | <1.0 | <1.0 | |
| Copper (Cu) | mg/kg | 250 | 16000 | 91 | 45 | 9.6 | 5.1 | 7.7 | 7.7 | 12 | 2.2 | 4 | 4.8 | <2.0 | 2.3 | 11 | 31 | 46 | 7.8 | 7 | 7.6 | 6.9 | <2.0 | |
| Iron (Fe) | mg/kg | 164000 | No Guideline | No Guideline | 33000 | 14000 | 1400 | 10000 | 11000 | 17000 | 13000 | 3100 | 29000 | 14000 | 15000 | 14000 | 39000 | 53000 | 29000 | 25000 | 29000 | 26000 | 15000 | |
| Lead (Pb) | mg/kg | 120 | 740 | 6000 | 76 | 12 | 25 | 4.1 | 3.3 | 9.5 | 5.1 | 15 | 13 | 4.6 | 6.5 | 17 | 44 | 19 | 42 | 25 | 52 | 39 | 6.3 | |
| Lithium (Li) | mg/kg | No Guideline | No Guideline | No Guideline | 32 | 15 | <2.0 | 14 | 15 | 19 | 11 | 4.6 | 12 | 3 | 5 | 15 | 49 | 21 | 26 | 27 | 21 | 20 | <2.0 | |
| Manganese (Mn) | mg/kg | 2000 | No Guideline | No Guideline | 550 | 140 | 43 | 150 | 160 | 220 | 28 | 43 | 77 | 47 | 77 | 150 | 620 | 270 | 330 | 350 | 290 | 260 | 33 | |
| Methyl Mercury | mg/kg | No Guideline | No Guideline | No Guideline | - | - | - | - | - | - | - | - | - | - | - | - | 0.00325 | 0.00741 | - | - | 0.00168 | - | - | |
| Mercury (Hg) | mg/kg | 99 | 99 | 50 | 7.2 | 0.42 | 0.32 | <0.10 | <0.10 | 0.12 | <0.10 | 0.17 | 0.22 | 0.1 | 0.18 | 0.22 | 8.2 | 0.24 | 3 | 1 | 2.9 | 2.7 | 0.12 | |
| Molybdenum (Mo) | mg/kg | 15 | 40 | 40 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | |
| Nickel (Ni) | mg/kg | 70 | 2500 | 89 | 59 | 9.2 | 2.7 | 9.7 | 10 | 13 | <2.0 | 3.3 | 6.3 | 3 | 4.8 | 11 | 31 | 16 | 8.8 | 11 | 7.9 | 7.3 | 2.3 | |
| Rubidium (Rb) | mg/kg | No Guideline | No Guideline | No Guideline | 33 | 16 | <2.0 | 15 | 14 | 19 | 2.7 | 6.6 | 5.1 | 3.7 | 5.1 | 15 | 80 | 22 | 44 | 40 | 40 | 38 | 2.9 | |
| Selenium (Se) | mg/kg | 1 | 1135 | 2.9 | 0.95 | <0.50 | 1.4 | <0.50 | <0.50 | <0.50 | 0.89 | 1.5 | 2.5 | 0.62 | 0.61 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| Silver (Ag) | mg/kg | 490 | 40 | 40 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| Strontium (Sr) | mg/kg | 140000 | No Guideline | No Guideline | 24 | <5.0 | 27 | <5.0 | <5.0 | <5.0 | <5.0 | 6.8 | <5.0 | <5.0 | <5.0 | <5.0 | 15 | 5.6 | 12 | 13 | 8.8 | 8 | <5.0 | |
| Thallium (Tl) | mg/kg | 1 | 1 | 3.6 | 0.33 | <0.10 | <0.10 | 0.11 | <0.10 | 0.13 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 0.11 | 0.57 | 0.17 | 0.33 | 0.3 | 0.33 | 0.3 | <0.10 | |
| Tin (Sn) | mg/kg | 140000 | 300 | 300 | 1.2 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1.2 | 1.2 | 2.4 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| Uranium (U) | mg/kg | 30 | 300 | 2000 | 1.1 | 0.58 | 0.17 | 0.56 | 0.52 | 0.65 | 0.62 | 0.74 | 0.9 | 0.47 | 0.56 | 0.5 | 0.72 | 0.44 | 0.51 | 0.5 | 0.48 | 0.42 | 0.48 | |
| Vanadium (V) | mg/kg | 100 | No Guideline | 130 | 26 | 14 | 3.6 | 14 | 14 | 21 | 20 | 9 | 34 | 29 | 31 | 16 | 39 | 21 | 23 | 22 | 21 | 19 | 30 | |
| Zinc (Zn) | mg/kg | 200 | 140000 | 410 | 280 | 39 | 15 | 20 | 21 | 32 | 5.3 | 8.3 | 13 | 5.8 | 9.8 | 31 | 130 | 140 | 36 | 51 | 39 | 31 | <5.0 | |

Notes:
Shaded Result exceeds NS Tier 1 EQS
Bold Result exceeds CCME SQG_{HH}
Red Result exceeds CCME SQG_E

- a. Nova Scotia. 2021. Tier 1 Environmental Quality Standards for Soil at a Potable Site (Industrial land use and coarse grained soil).
- b. Canadian Council of Ministers of the Environment. 1999. Canadian Soil Quality Guidelines for the Protection of Environmental and Human Health.
- c. Value has been adjusted from its original jurisdictional value to reflect a 1 x 10⁻⁰⁵ Target Cancer Risk Level.

**Table D.1: Available Metal Concentrations in Soil Samples
Goldboro Gold Mine Project, Guysborough County, NS**

| Parameters | Units | NS Tier 1 EQS (Potable, Industrial, Coarse Grained) ^a | CCME SQG _{HH} (Industrial) ^b | CCME SQG _E (Industrial) ^b | GHD | | | | | | | | | | | | | | | | | | | |
|------------------|-------|--|---|--|------------|-------------|------------|-------------|------------|-----------|-------------|-----------|-------------|--------------|------------|-----------|--------------|-----------------------|--------------|-------------|-------------|--------------|------------|-----------|
| | | | | | D-09 | D-12 | D-19 | D-21 | D-22 | D-34 | E-05 | E-08 | E-11 | E-22 | E-31 | E-33 | E-35 | DUP-F (FD of E-35) | E-40 | E-45 | E-46 | E-47 | E-55 | |
| Sample Depth (m) | | | | | 0.1 - 0.4 | 0.35 - 0.55 | 0.1 - 0.3 | 0 - 0.3 | 0.5 - 0.9 | 0.1 - 0.4 | 0.15 - 0.34 | 0.2 - 0.4 | 0 - 0.15 | 0.05 - 0.18 | 0 - 0.25 | 0.1 - 0.3 | 0.2 - 0.35 | 0.2 - 0.35 | 0.08 - 0.18 | 0.15 - 0.30 | 0.08 - 0.18 | 0.1 - 0.2 | 0.1 - 0.3 | |
| Sample Date | | | | | 16-Jun-21 | 16-Jun-21 | 16-Jun-21 | 16-Jun-21 | 16-Jun-21 | 16-Jun-21 | 16-Jun-21 | 16-Jun-21 | 16-Jun-21 | 16-Jun-21 | 17-Jun-21 | 17-Jun-21 | 17-Jun-21 | 17-Jun-21 | 17-Jun-21 | 17-Jun-21 | 17-Jun-21 | 17-Jun-21 | 17-Jun-21 | 17-Jun-21 |
| Aluminum (Al) | mg/kg | 220000 | No Guideline | No Guideline | 22000 | 5100 | 7900 | 13000 | 13000 | 9200 | 3900 | 10000 | 10000 | 9000 | 18000 | 16000 | 9700 | 8600 | 9500 | 7800 | 9900 | 9800 | 18000 | |
| Antimony (Sb) | mg/kg | 63 | 40 | 40 | <2.0 | <2.0 | <2.0 | 18 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | 5.7 | 14 | 3 | <2.0 | 20 | 15 | 7.5 | <2.0 | <2.0 | <2.0 | |
| Arsenic (As) | mg/kg | 10 | 31 ^c | 26 | 110 | 28 | 220 | 9700 | 24 | 8.3 | 26 | 99 | 9600 | 25000 | 790 | 84 | 28000 | 22000 | 22000 | 180 | 940 | 20000 | 580 | |
| Barium (Ba) | mg/kg | 350 | 96000 | 2000 | 13 | 20 | 14 | 70 | 23 | 18 | 11 | 13 | 57 | 52 | 97 | 7.8 | 47 | 44 | 71 | 39 | 44 | 45 | 87 | |
| Beryllium (Be) | mg/kg | 1 | 1100 | 8 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | |
| Bismuth (Bi) | mg/kg | No Guideline | No Guideline | No Guideline | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | |
| Boron (B) | mg/kg | 24000 | No Guideline | No Guideline | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | |
| Cadmium (Cd) | mg/kg | 1 | 192 | 22 | <0.30 | <0.30 | <0.30 | 0.42 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | |
| Chromium (Cr) | mg/kg | 6700 | 2300 | 87 | 26 | <2.0 | 11 | 22 | 6.4 | 13 | 6.3 | 15 | 17 | 17 | 27 | 17 | 16 | 16 | 17 | 4.4 | 15 | 18 | 24 | |
| Cobalt (Co) | mg/kg | 25 | 300 | 300 | 2.6 | <1.0 | 1.8 | 15 | <1.0 | 2.1 | <1.0 | 2.9 | 1.1 | <1.0 | 6.1 | 1.3 | 2.7 | 1.4 | 1.9 | 2.4 | 7.1 | 3 | 1.6 | |
| Copper (Cu) | mg/kg | 250 | 16000 | 91 | 4.2 | 2.7 | <2.0 | 39 | 8.3 | <2.0 | <2.0 | 3.1 | 12 | 6.9 | 21 | 2.3 | 8.2 | 8 | 7.7 | 11 | 24 | 5.8 | 13 | |
| Iron (Fe) | mg/kg | 164000 | No Guideline | No Guideline | 39000 | 1900 | 7000 | 33000 | 1200 | 7100 | 3300 | 21000 | 27000 | 36000 | 28000 | 33000 | 40000 | 35000 | 45000 | 4700 | 18000 | 41000 | 23000 | |
| Lead (Pb) | mg/kg | 120 | 740 | 6000 | 9.9 | 14 | 7.5 | 120 | 15 | 6.8 | 7.8 | 7.3 | 31 | 86 | 36 | 8.9 | 96 | 74 | 75 | 15 | 37 | 64 | 28 | |
| Lithium (Li) | mg/kg | No Guideline | No Guideline | No Guideline | 12 | <2.0 | 9 | 25 | <2.0 | 12 | 2.8 | 7.8 | 18 | 13 | 39 | 6.1 | 14 | 12 | 13 | <2.0 | 13 | 11 | 31 | |
| Manganese (Mn) | mg/kg | 2000 | No Guideline | No Guideline | 100 | 14 | 93 | 320 | 15 | 96 | 45 | 110 | 270 | 180 | 500 | 49 | 200 | 170 | 190 | 210 | 290 | 180 | 370 | |
| Methyl Mercury | mg/kg | No Guideline | No Guideline | No Guideline | - | - | - | - | 0.0337 | - | - | - | - | - | 0.00263 | - | 0.0316 | - | - | 0.0696 | - | - | - | |
| Mercury (Hg) | mg/kg | 99 | 99 | 50 | 0.16 | 0.24 | 0.21 | 9.6 | 0.48 | <0.10 | 0.17 | <0.10 | 8.5 | 11 | 1.3 | <0.10 | 15 | 15 | 11 | 0.39 | 0.23 | 6.6 | 5.1 | |
| Molybdenum (Mo) | mg/kg | 15 | 40 | 40 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | |
| Nickel (Ni) | mg/kg | 70 | 2500 | 89 | 7.3 | 2.2 | 6.1 | 30 | 2.8 | 7.1 | 2.7 | 7.9 | 6.6 | 4.9 | 19 | 3.8 | 9.4 | 6.1 | 7.6 | 6.9 | 14 | 9 | 11 | |
| Rubidium (Rb) | mg/kg | No Guideline | No Guideline | No Guideline | 6.5 | <2.0 | 7.6 | 40 | 2.5 | 8 | 4.2 | 6.8 | 36 | 28 | 65 | 3.6 | 27 | 22 | 21 | <2.0 | 17 | 14 | 46 | |
| Selenium (Se) | mg/kg | 1 | 1135 | 2.9 | 2.2 | 1.7 | <0.50 | <0.50 | 3.7 | <0.50 | <0.50 | 0.94 | <0.50 | <0.50 | <0.50 | 1.5 | <0.50 | 0.54 | 0.77 | 3 | 0.58 | 1.2 | <0.50 | |
| Silver (Ag) | mg/kg | 490 | 40 | 40 | <0.50 | <0.50 | <0.50 | 0.64 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 1.1 | <0.50 | <0.50 | 0.87 | 0.66 | 0.85 | <0.50 | 1.1 | 0.88 | <0.50 | |
| Strontium (Sr) | mg/kg | 140000 | No Guideline | No Guideline | <5.0 | 14 | <5.0 | 13 | 22 | <5.0 | <5.0 | <5.0 | 6.3 | <5.0 | 14 | <5.0 | 6.5 | 5 | 10 | 45 | 12 | 11 | 15 | |
| Thallium (Tl) | mg/kg | 1 | 1 | 3.6 | <0.10 | <0.10 | <0.10 | 0.38 | <0.10 | <0.10 | <0.10 | <0.10 | 0.31 | 0.28 | 0.47 | <0.10 | 0.27 | 0.24 | 0.22 | <0.10 | 0.15 | 0.15 | 0.37 | |
| Tin (Sn) | mg/kg | 140000 | 300 | 300 | <1.0 | <1.0 | <1.0 | 1.7 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1.1 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1.3 | <1.0 | |
| Uranium (U) | mg/kg | 30 | 300 | 2000 | 0.72 | 0.19 | 0.58 | 0.55 | 1.5 | 0.53 | 0.49 | 0.62 | 0.38 | 0.41 | 0.8 | 0.55 | 0.42 | 0.46 | 0.49 | 1.2 | 0.61 | 0.57 | 1.7 | |
| Vanadium (V) | mg/kg | 100 | No Guideline | 130 | 47 | 2.7 | 12 | 22 | 7.4 | 12 | 6.8 | 28 | 19 | 20 | 31 | 56 | 19 | 18 | 18 | 4.5 | 22 | 21 | 26 | |
| Zinc (Zn) | mg/kg | 200 | 140000 | 410 | 17 | 6.4 | 14 | 93 | <5.0 | 14 | 5.1 | 19 | 31 | 22 | 78 | 7.3 | 31 | 21 | 23 | 49 | 46 | 23 | 42 | |

Notes:
Shaded Result exceeds NS Tier 1 EQS
Bold Result exceeds CCME SQG_{HH}
Red Result exceeds CCME SQG_E

- a. Nova Scotia, 2021. Tier 1 Environmental Quality Standards for Soil at a Potable Site (Industrial land use and coarse grained soil).
- b. Canadian Council of Ministers of the Environment, 1999. Canadian Soil Quality Guidelines for the Protection of Environmental and Human Health.
- c. Value has been adjusted from its original jurisdictional value to reflect a 1 x 10⁻⁰⁵ Target Cancer Risk Level.

**Table D.1: Available Metal Concentrations in Soil Samples
Goldboro Gold Mine Project, Guysborough County, NS**

| Parameters | Units | NS Tier 1 EQS (Potable, Industrial, Coarse Grained) ^a | CCME SQG _{HH} (Industrial) ^b | CCME SQG _E (Industrial) ^b | GHD | | | | | Anaconda | | | | | | | | | | | | | |
|------------------|-------|--|---|--|------------|-----------|------------|------------|-----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------------|----------|----------|----------|----------|----------|
| | | | | | E-56 | E-62 | E-68 | E-74 | DUP-E (FD of E-74) | ANX-A1a | ANX-A1b | ANX-A2a | ANX-A2b | ANX-A3a | ANX-A3b | ANX-A4a | ANX-A4b | ANX-A4b DUP | ANX-A5a | ANX-A5b | ANX-A6a | ANX-A6b | ANX-A7a |
| Sample Depth (m) | | | | | 0.08 - 0.2 | 0.2 - 0.5 | 0.15 - 0.2 | 0.15 - 0.4 | 0.15 - 0.4 | 0.9 | 1.3 | 1 | 1.4 | 1.1 | 1.5 | 1 | 1.4 | - | 0.9 | 1.2 | 1 | 1 | 0.7 |
| Sample Date | | | | | 17-Jun-21 | 17-Jun-21 | 17-Jun-21 | 16-Jun-21 | 16-Jun-21 | 1-Sep-21 | 1-Sep-21 | 1-Sep-21 | 1-Sep-21 | 1-Sep-21 | 1-Sep-21 | 1-Sep-21 | 1-Sep-21 | 1-Sep-21 | 1-Sep-21 | 1-Sep-21 | 1-Sep-21 | 1-Sep-21 | 1-Sep-21 |
| Aluminum (Al) | mg/kg | 220000 | No Guideline | No Guideline | 23000 | 1200 | 1900 | 3400 | 3100 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Antimony (Sb) | mg/kg | 63 | 40 | 40 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Arsenic (As) | mg/kg | 10 | 31 ^c | 26 | 1600 | 15 | 12 | 3 | 4.9 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Barium (Ba) | mg/kg | 350 | 96000 | 2000 | 140 | 17 | 8.6 | 6.5 | 6.4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Beryllium (Be) | mg/kg | 1 | 1100 | 8 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Bismuth (Bi) | mg/kg | No Guideline | No Guideline | No Guideline | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Boron (B) | mg/kg | 24000 | No Guideline | No Guideline | <50 | <50 | <50 | <50 | <50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cadmium (Cd) | mg/kg | 1 | 192 | 22 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Chromium (Cr) | mg/kg | 6700 | 2300 | 87 | 34 | <2.0 | 3 | 3.8 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cobalt (Co) | mg/kg | 25 | 300 | 300 | 5.2 | <1.0 | <1.0 | <1.0 | <1.0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Copper (Cu) | mg/kg | 250 | 16000 | 91 | 30 | 2.9 | <2.0 | <2.0 | <2.0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Iron (Fe) | mg/kg | 164000 | No Guideline | No Guideline | 37000 | 1000 | 1600 | 1700 | 1600 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Lead (Pb) | mg/kg | 120 | 740 | 6000 | 34 | 11 | 6.3 | 4.7 | 4.7 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Lithium (Li) | mg/kg | No Guideline | No Guideline | No Guideline | 46 | <2.0 | <2.0 | <2.0 | <2.0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Manganese (Mn) | mg/kg | 2000 | No Guideline | No Guideline | 600 | 32 | 26 | 30 | 30 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Methyl Mercury | mg/kg | No Guideline | No Guideline | No Guideline | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Mercury (Hg) | mg/kg | 99 | 99 | 50 | 4.5 | 0.21 | <0.10 | <0.10 | <0.10 | 1.6 | 1.6 | 1.8 | 1.1 | 2.4 | 1.4 | 2.1 | 0.98 | - | 0.46 | 0.33 | 0.53 | 0.55 | 1.3 |
| Molybdenum (Mo) | mg/kg | 15 | 40 | 40 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Nickel (Ni) | mg/kg | 70 | 2500 | 89 | 22 | <2.0 | <2.0 | <2.0 | <2.0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Rubidium (Rb) | mg/kg | No Guideline | No Guideline | No Guideline | 78 | <2.0 | 3.2 | 3.4 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Selenium (Se) | mg/kg | 1 | 1135 | 2.9 | <0.50 | 1.3 | <0.50 | <0.50 | <0.50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Silver (Ag) | mg/kg | 490 | 40 | 40 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Strontium (Sr) | mg/kg | 140000 | No Guideline | No Guideline | 21 | 27 | <5.0 | <5.0 | <5.0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Thallium (Tl) | mg/kg | 1 | 1 | 3.6 | 0.57 | <0.10 | <0.10 | <0.10 | <0.10 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Tin (Sn) | mg/kg | 140000 | 300 | 300 | <1.0 | 2.1 | <1.0 | <1.0 | <1.0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Uranium (U) | mg/kg | 30 | 300 | 2000 | 1.2 | <0.10 | 0.26 | 0.44 | 0.36 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Vanadium (V) | mg/kg | 100 | No Guideline | 130 | 38 | <2.0 | 3 | 4.7 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Zinc (Zn) | mg/kg | 200 | 140000 | 410 | 92 | 26 | <5.0 | <5.0 | <5.0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

Notes:
Shaded Result exceeds NS Tier 1 EQS
Bold Result exceeds CCME SQG_{HH}
Red Result exceeds CCME SQG_E

- a. Nova Scotia, 2021. Tier 1 Environmental Quality Standards for Soil at a Potable Site (Industrial land use and coarse grained soil).
- b. Canadian Council of Ministers of the Environment, 1999. Canadian Soil Quality Guidelines for the Protection of Environmental and Human Health.
- c. Value has been adjusted from its original jurisdictional value to reflect a 1 x 10⁻⁰⁵ Target Cancer Risk Level.

**Table D.1: Available Metal Concentrations in Soil Samples
Goldboro Gold Mine Project, Guysborough County, NS**

| Parameters | Units | NS Tier 1 EQS (Potable, Industrial, Coarse Grained) ^a | CCME SQG _{HH} (Industrial) ^b | CCME SQG _E (Industrial) ^b | Anaconda | | | | | | | | | | | | | | |
|------------------|-------|--|---|--|----------|----------|----------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| | | | | | ANX-A7b | ANX-A8a | ANX-A8a DUP | ANX-A9a | ANX-A9b | ANX-D1A | ANX-D2a | ANX-D2b | ANX-D3a | ANX-D4a | ANX-D5a | ANX-D6a | ANX-D7a | ANX-D7b | ANX-D8a |
| Sample Depth (m) | | | | | 0.7 | 0.6 | - | 0.8 | 1.2 | 0.6 | 0.5 | 0.7 | 0.5 | 0.4 | 0.4 | 0.6 | 0.6 | 0.7 | 0.4 |
| Sample Date | | | | | 1-Sep-21 | 1-Sep-21 | 1-Sep-21 | 1-Sep-21 | 1-Sep-21 | 1-Sep-21 | 1-Sep-21 | 1-Sep-21 | 1-Sep-21 | 1-Sep-21 | 1-Sep-21 | 1-Sep-21 | 1-Sep-21 | 1-Sep-21 | 1-Sep-21 |
| Aluminum (Al) | mg/kg | 220000 | No Guideline | No Guideline | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Antimony (Sb) | mg/kg | 63 | 40 | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Arsenic (As) | mg/kg | 10 | 31 ^c | 26 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Barium (Ba) | mg/kg | 350 | 96000 | 2000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Beryllium (Be) | mg/kg | 1 | 1100 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Bismuth (Bi) | mg/kg | No Guideline | No Guideline | No Guideline | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Boron (B) | mg/kg | 24000 | No Guideline | No Guideline | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cadmium (Cd) | mg/kg | 1 | 192 | 22 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Chromium (Cr) | mg/kg | 6700 | 2300 | 87 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cobalt (Co) | mg/kg | 25 | 300 | 300 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Copper (Cu) | mg/kg | 250 | 16000 | 91 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Iron (Fe) | mg/kg | 164000 | No Guideline | No Guideline | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Lead (Pb) | mg/kg | 120 | 740 | 6000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Lithium (Li) | mg/kg | No Guideline | No Guideline | No Guideline | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Manganese (Mn) | mg/kg | 2000 | No Guideline | No Guideline | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Methyl Mercury | mg/kg | No Guideline | No Guideline | No Guideline | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Mercury (Hg) | mg/kg | 99 | 99 | 50 | 1.2 | 4.3 | - | 1.1 | 1.5 | 2.8 | 5.2 | 1.8 | 9 | 12 | 13 | 8.1 | 8 | 8.6 | 3.3 |
| Molybdenum (Mo) | mg/kg | 15 | 40 | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Nickel (Ni) | mg/kg | 70 | 2500 | 89 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Rubidium (Rb) | mg/kg | No Guideline | No Guideline | No Guideline | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Selenium (Se) | mg/kg | 1 | 1135 | 2.9 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Silver (Ag) | mg/kg | 490 | 40 | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Strontium (Sr) | mg/kg | 140000 | No Guideline | No Guideline | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Thallium (Tl) | mg/kg | 1 | 1 | 3.6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Tin (Sn) | mg/kg | 140000 | 300 | 300 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Uranium (U) | mg/kg | 30 | 300 | 2000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Vanadium (V) | mg/kg | 100 | No Guideline | 130 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Zinc (Zn) | mg/kg | 200 | 140000 | 410 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

Notes:
Shaded Result exceeds NS Tier 1 EQS
Bold Result exceeds CCME SQG_{HH}
Red Result exceeds CCME SQG_E

- a. Nova Scotia. 2021. Tier 1 Environmental Quality Standards for Soil at a Potable Site (Industrial land use and coarse grained soil).
- b. Canadian Council of Ministers of the Environment. 1999. Canadian Soil Quality Guidelines for the Protection of Environmental and Human Health.
- c. Value has been adjusted from its original jurisdictional value to reflect a 1 x 10⁻⁰⁵ Target Cancer Risk Level.

Table D.2: Total Metal Concentrations in Soil Samples
Goldboro Gold Mine Project, Guysborough County, NS

| Parameters | Units | NS Tier 1 EQS (Potable, Industrial, Coarse Grained) ^a | CCME SQG _{HH} (Industrial) ^{b,c} | CCME SQG _E (Industrial) ^b | Anaconda | | | | | | | | | | | | | | | | | | |
|-------------------------|-------|--|---|--|------------|------------|----------|------------|------------|------------|------------|------------|----------------|------------|------------|------------|-------------|------------|------------|------------|----------------|----------|----------|
| | | | | | ANX-A1a | ANX-A1b | ANX-A2a | ANX-A2b | ANX-A3a | ANX-A3b | ANX-A4a | ANX-A4b | ANX-A4b DUP | ANX-A5a | ANX-A5b | ANX-A6a | ANX-A6b | ANX-A7a | ANX-A7b | ANX-A8a | ANX-A8a DUP | ANX-A9a | ANX-A9b |
| Sample Depth (m) | | | | | 0.9 | 1.3 | 1 | 1.4 | 1.1 | 1.5 | 1 | 1.4 | - | 0.9 | 1.2 | 1 | 1 | 0.7 | 0.7 | 0.6 | - | 0.8 | 1.2 |
| Sample Date | | | | | 1-Sep-21 | 1-Sep-21 | 1-Sep-21 | 1-Sep-21 | 1-Sep-21 | 1-Sep-21 | 1-Sep-21 | 1-Sep-21 | 1-Sep-21 | 1-Sep-21 | 1-Sep-21 | 1-Sep-21 | 1-Sep-21 | 1-Sep-21 | 1-Sep-21 | 1-Sep-21 | 1-Sep-21 | 1-Sep-21 | 1-Sep-21 |
| Aluminum (Al) | mg/kg | 220000 | No Guideline | No Guideline | 62100 | 56200 | 67800 | 67600 | 79600 | 66800 | 62400 | 53500 | 49500 | 25500 | 29100 | 32100 | 35800 | 33700 | 62200 | 93500 | 111500 | 47400 | 39600 |
| Antimony (Sb) | mg/kg | 63 | 40 | 40 | <3 | <3 | <3 | 5 | 4 | <3 | <3 | <3 | <3 | <3 | <3 | <3 | <3 | <3 | <3 | <3 | 5 | <3 | <3 |
| Arsenic (As) | mg/kg | 10 | 31 | 26 | >1000 | 639 | >1000 | >1000 | 317 | 281 | 913 | 598 | 387 | 475 | 699 | 385 | >1000 | 492 | >1000 | 582 | 504 | >1000 | >1000 |
| Barium (Ba) | mg/kg | 350 | 96000 | 2000 | 516 | 430 | 576 | 568 | 711 | 577 | 518 | 418 | 386 | 154 | 194 | 225 | 278 | 287 | 527 | 1082 | 1127 | 379 | 307 |
| Beryllium (Be) | mg/kg | 1 | 1100 | 8 | 3.3 | 3.2 | 3.5 | 3.6 | 3.7 | 3.2 | 2.9 | 2.6 | 2.3 | 1.6 | 1.5 | 1.7 | 2.3 | 1.8 | 4.2 | 6.1 | 6.1 | 2.8 | 2.7 |
| Bismuth (Bi) | mg/kg | No Guideline | No Guideline | No Guideline | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| Cadmium (Cd) | mg/kg | 1 | 192 | 22 | 7 | 0.7 | 0.7 | 1.2 | 1 | 0.9 | 1.7 | 1.4 | 0.8 | <0.5 | 1.6 | 0.6 | 0.8 | 0.5 | 2.3 | 0.8 | 1.4 | 3.9 | 1.1 |
| Chromium (Cr) | mg/kg | 6700 | 2300 | 87 | 172 | 43 | 43 | 138 | 47 | 38 | 34 | 41 | 43 | 17 | 22 | 29 | 35 | 35 | 63 | 61 | 55 | 34 | 26 |
| Cobalt (Co) | mg/kg | 25 | 300 | 300 | 11 | 5 | 8 | 8 | 3 | 4 | 5 | 4 | 3 | 6 | 4 | 4 | 9 | 5 | 25 | 5 | 6 | 12 | 11 |
| Copper (Cu) | mg/kg | 250 | 16000 | 91 | 25 | 24 | 22 | 26 | 15 | 17 | 22 | 18 | 16 | 17 | 11 | 13 | 25 | 13 | 48 | 18 | 19 | 22 | 28 |
| Iron (Fe) | mg/kg | 164000 | No Guideline | No Guideline | 36900 | 20800 | 28700 | 30000 | 22000 | 18900 | 17800 | 13500 | 13300 | 15200 | 18000 | 12700 | 33100 | 14900 | 31900 | 27400 | 29700 | 36000 | 35700 |
| Lead (Pb) | mg/kg | 120 | 740 | 6000 | 37 | 34 | 32 | 31 | 29 | 27 | 31 | 21 | 26 | 20 | 21 | 18 | 48 | 18 | 79 | 31 | 33 | 31 | 39 |
| Manganese (Mn) | mg/kg | 2000 | No Guideline | No Guideline | 1312 | 703 | 1014 | 1099 | 486 | 462 | 939 | 733 | 691 | 858 | 1198 | 1428 | 3118 | 1586 | 1780 | 459 | 510 | 1601 | 1216 |
| Molybdenum (Mo) | mg/kg | 15 | 40 | 40 | 3 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 2 | 1 | <1 | 1 | 1 |
| Nickel (Ni) | mg/kg | 70 | 2500 | 89 | 98 | 14 | 17 | 21 | 12 | 11 | 13 | 14 | 9 | 12 | 8 | 11 | 16 | 13 | 44 | 18 | 18 | 17 | 22 |
| Selenium (Se) | mg/kg | 1 | 1135 | 2.9 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| Silver (Ag) | mg/kg | 490 | 40 | 40 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | 0.2 | 0.4 | <0.2 | 0.2 | <0.2 | 0.3 | <0.2 | <0.2 | 0.3 | <0.2 |
| Strontium (Sr) | mg/kg | 140000 | No Guideline | No Guideline | 110 | 90 | 90 | 89 | 99 | 85 | 86 | 83 | 76 | 58 | 74 | 83 | 102 | 111 | 107 | 73 | 79 | 67 | 75 |
| Tin (Sn) | mg/kg | 140000 | 300 | 300 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| Uranium (U) | mg/kg | 30 | 300 | 2000 | 3 | <2 | <2 | 2 | <2 | <2 | <2 | <2 | <2 | <2 | 2 | <2 | <2 | <2 | <2 | <2 | <2 | 2 | 2 |
| Vanadium (V) | mg/kg | 100 | No Guideline | 130 | 64 | 53 | 71 | 68 | 84 | 68 | 61 | 50 | 47 | 21 | 27 | 29 | 41 | 35 | 71 | 125 | 132 | 49 | 43 |
| Zinc (Zn) | mg/kg | 200 | 140000 | 410 | 89 | 60 | 85 | 93 | 65 | 64 | 47 | 39 | 37 | 36 | 42 | 24 | 81 | 51 | 305 | 81 | 88 | 97 | 116 |

Notes:

Shaded Result exceeds NS Tier 1 EQS

Bold Result exceeds CCME SQG_{HH}

Italics Result exceeds CCME SQG_E

a. Nova Scotia. 2021. Tier 1 Environmental Quality Standards for Soil at a Potable Site (Industrial land use and coarse grained soil).

b. Canadian Council of Ministers of the Environment. 1999. Canadian Soil Quality Guidelines for the Protection of Environmental and Human Health.

c. Value has been adjusted from its original jurisdictional value, to reflect a 1 x 10⁻⁰⁵ Target Cancer Risk Level.

Table D.2: Total Metal Concentrations in Soil Samples
Goldboro Gold Mine Project, Guysborough County, NS

| Parameters | Units | NS Tier 1 EQS (Potable, Industrial, Coarse Grained) ^a | CCME SQG _{HH} (Industrial) ^{b,c} | CCME SQG _E (Industrial) ^b | Anaconda | | | | | | | | | |
|-------------------------|-------|--|---|--|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| | | | | | ANX-D1A | ANX-D2a | ANX-D2b | ANX-D3a | ANX-D4a | ANX-D5a | ANX-D6a | ANX-D7a | ANX-D7b | ANX-D8a |
| Sample Depth (m) | | | | | 0.6 | 0.5 | 0.7 | 0.5 | 0.4 | 0.4 | 0.6 | 0.6 | 0.7 | 0.4 |
| Sample Date | | | | | 1-Sep-21 | 1-Sep-21 | 1-Sep-21 | 1-Sep-21 | 1-Sep-21 | 1-Sep-21 | 1-Sep-21 | 1-Sep-21 | 1-Sep-21 | 1-Sep-21 |
| Aluminum (Al) | mg/kg | 220000 | No Guideline | No Guideline | 48600 | 60900 | 62300 | 60500 | 59200 | 59800 | 43300 | 59300 | 49400 | 100700 |
| Antimony (Sb) | mg/kg | 63 | 40 | 40 | 7 | 5 | 5 | 20 | 25 | 14 | <3 | 18 | 22 | 11 |
| Arsenic (As) | mg/kg | 10 | 31 | 26 | >1000 | >1000 | >1000 | >1000 | >1000 | >1000 | 688 | >1000 | >1000 | >1000 |
| Barium (Ba) | mg/kg | 350 | 96000 | 2000 | 409 | 489 | 500 | 491 | 511 | 518 | 326 | 498 | 423 | 968 |
| Beryllium (Be) | mg/kg | 1 | 1100 | 8 | 2.3 | 2.8 | 3 | 2.6 | 2.7 | 3 | 2 | 2.9 | 2.5 | 3.6 |
| Bismuth (Bi) | mg/kg | No Guideline | No Guideline | No Guideline | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| Cadmium (Cd) | mg/kg | 1 | 192 | 22 | 10.4 | 5.6 | 4.9 | 18.9 | 16.8 | 16.1 | 0.6 | 7.3 | 28.4 | 4.3 |
| Chromium (Cr) | mg/kg | 6700 | 2300 | 87 | 43 | 33 | 30 | 43 | 75 | 49 | 152 | 53 | 43 | 61 |
| Cobalt (Co) | mg/kg | 25 | 300 | 300 | 11 | 7 | 7 | 9 | 12 | 7 | 2 | 5 | 5 | 4 |
| Copper (Cu) | mg/kg | 250 | 16000 | 91 | 26 | 14 | 16 | 50 | 45 | 26 | 16 | 34 | 33 | 17 |
| Iron (Fe) | mg/kg | 164000 | No Guideline | No Guideline | 37400 | 38000 | 37400 | 48700 | 48900 | 37000 | 22600 | 35400 | 59500 | 43000 |
| Lead (Pb) | mg/kg | 120 | 740 | 6000 | 44 | 28 | 28 | 125 | 153 | 91 | 50 | 37 | 33 | 28 |
| Manganese (Mn) | mg/kg | 2000 | No Guideline | No Guideline | 475 | 587 | 595 | 551 | 555 | 492 | 330 | 602 | 650 | 672 |
| Molybdenum (Mo) | mg/kg | 15 | 40 | 40 | <1 | <1 | <1 | <1 | 2 | 1 | 1 | <1 | <1 | 1 |
| Nickel (Ni) | mg/kg | 70 | 2500 | 89 | 33 | 23 | 23 | 26 | 31 | 22 | 16 | 22 | 17 | 18 |
| Selenium (Se) | mg/kg | 1 | 1135 | 2.9 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| Silver (Ag) | mg/kg | 490 | 40 | 40 | 0.2 | <0.2 | <0.2 | 0.4 | 0.6 | 0.3 | 0.2 | <0.2 | <0.2 | 0.2 |
| Strontium (Sr) | mg/kg | 140000 | No Guideline | No Guideline | 113 | 149 | 152 | 134 | 131 | 134 | 94 | 172 | 213 | 132 |
| Tin (Sn) | mg/kg | 140000 | 300 | 300 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| Uranium (U) | mg/kg | 30 | 300 | 2000 | 3 | 4 | 3 | 5 | 4 | 3 | 2 | 4 | 5 | 4 |
| Vanadium (V) | mg/kg | 100 | No Guideline | 130 | 51 | 58 | 59 | 62 | 61 | 58 | 45 | 56 | 50 | 109 |
| Zinc (Zn) | mg/kg | 200 | 140000 | 410 | 87 | 99 | 111 | 98 | 115 | 78 | 35 | 151 | 163 | 81 |

Notes:

Shaded Result exceeds NS Tier 1 EQS

Bold Result exceeds CCME SQG_{HH}

Italics Result exceeds CCME SQG_E

a. Nova Scotia. 2021. Tier 1 Environmental Quality Standards for Soil at a Potable Site (Industrial land use and coarse grained soil).

b. Canadian Council of Ministers of the Environment. 1999. Canadian Soil Quality Guidelines for the Protection of Environmental and Human Health.

c. Value has been adjusted from its original jurisdictional value, to reflect a 1 x 10⁻⁰⁵ Target Cancer Risk Level.

**Table D.3: Leachable Metal Concentrations in Soil Samples
Goldboro Gold Mine Project, Guysborough County, NS**

| Parameters | Units | GHD | | | | | | | | | | | |
|-------------------------|-------|-----------|-------------|-------------|------------|-----------|------------|------------|-----------|-----------|-----------|------------|-------------|
| | | A-14 | A-24 | A-36 | B-36 | B-37 | C-13 | C-18 | D-07 | D-22 | E-31 | E-35 | E-45 |
| Sample Depth (m) | | 0.3 - 0.5 | 0.25 - 0.45 | 0.05 - 0.30 | 0.05 - 0.3 | 0.1 - 0.2 | 0.01 - 0.2 | 0.1 - 0.22 | 0.1 - 0.6 | 0.5 - 0.9 | 0 - 0.25 | 0.2 - 0.35 | 0.15 - 0.30 |
| Sample Date | | 14-Jun-21 | 14-Jun-21 | 14-Jun-21 | 15-Jun-21 | 15-Jun-21 | 16-Jun-21 | 16-Jun-21 | 16-Jun-21 | 16-Jun-21 | 17-Jun-21 | 17-Jun-21 | 17-Jun-21 |
| Leachable Arsenic (As) | ug/L | 500 | 370 | <20 | 37 | 1700 | 6000 | 78 | 1600 | 23 | 620 | 2600 | 81 |

Notes:

Bold and Shaded Result exceeds the applicable screening criteria.
a. Nova Scotia, 2021. Tier 1 Environmental Quality Standards for Soil at a Potable Site (Industrial land use and coarse grained soil).

Table D.4: Inorganics in Soil Samples
Goldboro Gold Mine Project, Guysborough County, NS

| Parameters | Units | GHD | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|-------|-------------|------------|-------------|-----------|-------------|-----------|-------------|-------------|-----------|-------------|--------------------|-----------|-------------|-------------|-----------|-----------|------------|-----------|--------------------|-----------|------------|------------|-------------|
| | | A-05 | A-08 | A-13 | A-14 | A-24 | A-26 | A-28 | A-36 | A-41 | A-45 | DUP-A (FD of A-45) | B-04 | B-06 | B-13 | B-21 | B-24 | B-36 | B-37 | DUP-B (FD of B-37) | DUP-T | B-38 | B-40 | B-46 |
| Sample Depth (m) | | 0.15 - 0.25 | 0.10 - 0.3 | 0.10 - 0.32 | 0.3 - 0.5 | 0.25 - 0.45 | 0.1 - 0.4 | 0.10 - 0.23 | 0.05 - 0.30 | 0.1 - 1.0 | 0.05 - 0.66 | 0.05 - 0.66 | 0.2 - 0.5 | 0.15 - 0.22 | 0.10 - 0.23 | 0.1 - 0.3 | 0.3 - 0.8 | 0.05 - 0.3 | 0.1 - 0.2 | 0.1 - 0.2 | 0.1 - 0.2 | 0.05 - 0.2 | 0.08 - 0.3 | 0.05 - 0.25 |
| Sample Date | | 14-Jun-21 | 14-Jun-21 | 14-Jun-21 | 14-Jun-21 | 14-Jun-21 | 14-Jun-21 | 14-Jun-21 | 14-Jun-21 | 14-Jun-21 | 14-Jun-21 | 14-Jun-21 | 15-Jun-21 | 15-Jun-21 | 15-Jun-21 | 15-Jun-21 | 15-Jun-21 | 15-Jun-21 | 15-Jun-21 | 15-Jun-21 | 15-Jun-21 | 15-Jun-21 | 15-Jun-21 | 15-Jun-21 |
| Ammonia-N | mg/kg | <0.38 | <0.38 | <0.36 | <0.41 | 7.2 | <0.32 | 4.1 | <0.38 | <0.35 | <0.39 | <0.42 | <0.42 | 3.1 | <0.43 | <0.45 | <2.1 | 2.6 | <0.33 | <0.33 | - | 2.2 | <0.32 | <0.71 |
| Chloride (Cl-) | mg/kg | 11 | 9 | 5.4 | 14 | 29 | 8.4 | 60 | 15 | <5.0 | <5.0 | 6.1 | 7.2 | 61 | 9 | 8.7 | 16 | 15 | 5.2 | 10 | - | 23 | 7.4 | 220 |
| Conductivity | uS/cm | 15 | 21 | 9.1 | 51 | 130 | 37 | 160 | 35 | 12 | 15 | 19 | 25 | 170 | 29 | 74 | 47 | 41 | 29 | 38 | - | 71 | 21 | 300 |
| Total Inorganic Carbon (C) | g/kg | - | - | - | - | 4.8 | - | - | - | - | - | - | - | - | - | - | - | - | <0.5 | - | <0.5 | <0.5 | - | - |
| Moisture | % | 30 | 29 | 27 | 36 | 68 | 20 | 75 | 31 | 25 | 33 | 36 | 37 | 84 | 38 | 39 | 86 | 34 | 22 | 23 | - | 69 | 20 | 60 |
| Nitrate + Nitrite (N) | mg/kg | 0.52 | 1.4 | <0.25 | 6.9 | <0.25 | <0.25 | 0.73 | 0.69 | <0.25 | 0.55 | 1.5 | <0.25 | 1.2 | <0.25 | 0.33 | 0.4 | <0.25 | <0.25 | 0.42 | - | <0.25 | <0.25 | 0.33 |
| Nitrite (N) | mg/kg | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | - | <0.050 | <0.050 | <0.050 |
| Organic Carbon (TOC) | g/kg | - | - | - | 32 | 130 | - | - | 31 | - | - | - | - | - | - | - | - | 37 | 2.1 | - | 3.7 | 89 | - | - |
| Orthophosphate (P) | mg/kg | 0.081 | 0.16 | <0.050 | 2.2 | 0.068 | 0.22 | 0.14 | <0.050 | <0.050 | <0.050 | <0.050 | 0.057 | 3 | <0.050 | 0.07 | <0.050 | 0.14 | 3.8 | 14 | - | 0.25 | 2.4 | 66 |
| Soluble (5:1) pH | pH | 5.54 | 5.1 | 5.6 | 6.07 | 5.73 | 5.91 | 5.66 | 5.1 | 5.12 | 5.18 | 5.2 | 5.16 | 4.23 | 5.26 | 5.16 | 4.95 | 5.44 | 4.53 | 4.71 | - | 5.63 | 5 | 3.75 |
| Sulphate (SO4) | mg/kg | 11 | 11 | <11 | 30 | 100 | 45 | 100 | <10 | 17 | 23 | 19 | 20 | 110 | <10 | 66 | 39 | 25 | 15 | 12 | - | 41 | <10 | <10 |
| Total Carbon-combustion IR | g/kg | - | - | - | - | 130 | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 3.6 | 86 | - | - |
| Total Sulphur (S) | % g/g | - | - | - | - | 0.24 | - | - | - | - | - | - | - | - | - | - | - | - | 0.013 | - | 0.02 | 0.16 | - | - |

Notes:

Bold and Shaded Result exceeds the applicable screening criteria.

a. Nova Scotia, 2021. Tier 1 Environmental Quality Standards for Soil at a Potable Site (Industrial land use and coarse grained soil).

Table D.4: Inorganics in Soil Samples
Goldboro Gold Mine Project, Guysborough County, NS

| Parameters | Units | GHD | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|-------|-------------|-----------|------------|-----------|-----------|-------------|-------------|--------------------|------------|------------|------------|------------|-----------|-----------|--------------------|-----------|-----------|-------------|-----------|-----------|-----------|-----------|-------------|
| | | B-47 | B-56 | B-63 | B-67 | B-69 | C-01 | C-03 | DUP-C (FD of C-03) | C-07 | C-13 | C-18 | C-22 | D-02 | D-07 | DUP-D (FD of D-07) | D-08 | D-09 | D-12 | D-19 | D-21 | D-22 | D-34 | E-05 |
| Sample Depth (m) | | 0.03 - 0.14 | 0.1 - 0.4 | 0.05 - 0.3 | 0.1 - 0.5 | 0.1 - 0.3 | 0.25 - 0.45 | 0.07 - 0.27 | 0.07 - 0.27 | 0.1 - 0.25 | 0.01 - 0.2 | 0.1 - 0.22 | 0.05 - 0.2 | 0.0 - 0.3 | 0.1 - 0.6 | 0.1 - 0.6 | 0.1 - 0.6 | 0.1 - 0.4 | 0.35 - 0.55 | 0.1 - 0.3 | 0 - 0.3 | 0.5 - 0.9 | 0.1 - 0.4 | 0.15 - 0.34 |
| Sample Date | | 15-Jun-21 | 15-Jun-21 | 15-Jun-21 | 15-Jun-21 | 15-Jun-21 | 16-Jun-21 | 16-Jun-21 | 16-Jun-21 | 16-Jun-21 | 16-Jun-21 | 16-Jun-21 | 16-Jun-21 | 16-Jun-21 | 16-Jun-21 | 16-Jun-21 | 16-Jun-21 | 16-Jun-21 | 16-Jun-21 | 16-Jun-21 | 16-Jun-21 | 16-Jun-21 | 16-Jun-21 | 16-Jun-21 |
| Ammonia-N | mg/kg | <0.28 | <0.29 | <0.31 | <0.37 | <0.64 | 0.86 | 0.61 | 0.43 | <0.34 | <0.33 | 0.99 | <0.38 | <0.34 | <0.33 | <0.32 | <0.39 | <0.41 | 5 | <0.35 | 0.43 | 4.8 | <0.37 | <0.40 |
| Chloride (Cl-) | mg/kg | 7.9 | 11 | 10 | 17 | 29 | 46 | 8.5 | 13 | 8.1 | 12 | 23 | 8.9 | 6.7 | <5.0 | <5.0 | 20 | 15 | 85 | 8.8 | 9.1 | 50 | 13 | 7 |
| Conductivity | uS/cm | 28 | 31 | 34 | 48 | 81 | 66 | 33 | 45 | 22 | 58 | 66 | 35 | 21 | 16 | 19 | 55 | 47 | 210 | 28 | 49 | 230 | 53 | 29 |
| Total Inorganic Carbon (C) | g/kg | - | - | - | - | - | - | - | - | - | - | - | - | - | <0.5 | - | - | - | - | - | - | <1 | - | - |
| Moisture | % | 10 | 11 | 16 | 28 | 57 | 50 | 27 | 38 | 23 | 22 | 48 | 30 | 24 | 20 | 20 | 31 | 35 | 90 | 23 | 22 | 83 | 29 | 33 |
| Nitrate + Nitrite (N) | mg/kg | 0.29 | <0.25 | 0.52 | 0.72 | 1.2 | 0.65 | 0.6 | 0.25 | <0.25 | 0.3 | 0.51 | 0.29 | 0.32 | <0.25 | <0.25 | 0.36 | 0.98 | 0.52 | 0.26 | <0.25 | 1 | 0.49 | <0.25 |
| Nitrite (N) | mg/kg | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | 0.053 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 |
| Organic Carbon (TOC) | g/kg | - | - | - | - | - | - | - | - | - | 3.5 | 25 | - | - | 1.7 | - | - | - | - | - | - | 460 | - | - |
| Orthophosphate (P) | mg/kg | 0.36 | 0.22 | 0.13 | <0.050 | 0.23 | <0.050 | 0.074 | 0.13 | 0.24 | 0.32 | 0.12 | 5.8 | 4.2 | 9 | 13 | 0.25 | <0.050 | 4.3 | 0.42 | 0.28 | 0.2 | 0.059 | 0.081 |
| Soluble (5:1) pH | pH | 5.52 | 5.18 | 5.26 | 4.94 | 4.89 | 4.87 | 4.62 | 4.63 | 5.38 | 5.19 | 4.78 | 4.51 | 5.34 | 4.93 | 4.68 | 4.41 | 5.02 | 3.95 | 5.21 | 5.13 | 4.3 | 4.72 | 4.85 |
| Sulphate (SO4) | mg/kg | <10 | <10 | <10 | <10 | 10 | <10 | <10 | <10 | <10 | 63 | 16 | <10 | <10 | <10 | <10 | <10 | <10 | 46 | <10 | 37 | 170 | <10 | <10 |
| Total Carbon-combustion IR | g/kg | - | - | - | - | - | - | - | - | - | - | - | - | - | 1.6 | - | - | - | - | - | - | 460 | - | - |
| Total Sulphur (S) | % g/g | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.021 | - | - | - | - | - | - | 0.66 | - | - |

Notes:
Bold and Shaded Result exceeds the applicable screening criteria.

a. Nova Scotia, 2021. Tier 1 Environmental Quality Standards for Soil at a Potable Site (Industrial land use and coarse grained soil).

Table D.4: Inorganics in Soil Samples
Goldboro Gold Mine Project, Guysborough County, NS

| Parameters | Units | GHD | | | | | | | | | | | | | | | | |
|----------------------------|-------|-----------|-----------|-------------|-----------|-----------|------------|--------------------|-------------|-------------|-------------|-----------|-----------|------------|-----------|------------|------------|--------------------|
| | | E-08 | E-11 | E-22 | E-31 | E-33 | E-35 | DUP-E (FD of E-35) | E-40 | E-45 | E-46 | E-47 | E-55 | E-56 | E-62 | E-68 | E-74 | DUP-F (FD of E-74) |
| Sample Depth (m) | | 0.2 - 0.4 | 0 - 0.15 | 0.05 - 0.18 | 0 - 0.25 | 0.1 - 0.3 | 0.2 - 0.35 | 0.2 - 0.35 | 0.08 - 0.18 | 0.15 - 0.30 | 0.08 - 0.18 | 0.1 - 0.2 | 0.1 - 0.3 | 0.08 - 0.2 | 0.2 - 0.5 | 0.15 - 0.2 | 0.15 - 0.4 | 0.15 - 0.4 |
| Sample Date | | 16-Jun-21 | 16-Jun-21 | 17-Jun-21 | 17-Jun-21 | 17-Jun-21 | 17-Jun-21 | 17-Jun-21 | 17-Jun-21 | 17-Jun-21 | 17-Jun-21 | 17-Jun-21 | 17-Jun-21 | 17-Jun-21 | 17-Jun-21 | 17-Jun-21 | 16-Jun-21 | 16-Jun-21 |
| Ammonia-N | mg/kg | <0.41 | <0.33 | 0.68 | <0.33 | 1.8 | <0.41 | <0.35 | <0.45 | 11 | 1.7 | 3.4 | 1.8 | <0.37 | <3.3 | <0.42 | <0.36 | <0.43 |
| Chloride (Cl-) | mg/kg | 13 | <5.0 | 11 | 6.3 | 17 | 10 | 9.7 | 17 | 70 | 17 | 34 | 9.8 | 11 | 97 | 12 | 12 | 8.6 |
| Conductivity | uS/cm | 33 | 14 | 46 | 23 | 43 | 47 | 28 | 80 | 290 | 80 | 130 | 45 | 39 | 140 | 39 | 36 | 55 |
| Total Inorganic Carbon (C) | g/kg | - | - | - | - | - | <0.5 | - | - | - | - | - | - | - | - | - | - | - |
| Moisture | % | 35 | 22 | 32 | 21 | 35 | 34 | 26 | 40 | 87 | 31 | 53 | 49 | 29 | 91 | 37 | 28 | 37 |
| Nitrate + Nitrite (N) | mg/kg | 0.38 | <0.25 | 0.26 | <0.25 | 0.77 | 0.41 | <0.25 | 0.27 | 0.38 | 1.6 | 3.4 | 0.33 | <0.25 | 0.75 | <0.25 | 0.39 | 0.53 |
| Nitrite (N) | mg/kg | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 |
| Organic Carbon (TOC) | g/kg | - | - | - | 3.8 | - | 16 | - | - | 520 | - | - | - | - | - | - | - | - |
| Orthophosphate (P) | mg/kg | 0.064 | 1.8 | 11 | 0.69 | 0.051 | 9.5 | 0.1 | 3.2 | 1.3 | 0.92 | 1.6 | 0.67 | 0.18 | 37 | 0.83 | 0.073 | 11 |
| Soluble (5:1) pH | pH | 4.72 | 5.05 | 4.22 | 5.5 | 4.7 | 4.42 | 4.75 | 4.31 | 4.36 | 4.95 | 4.27 | 4.95 | 5.15 | 3.64 | 4.84 | 4.76 | 4.28 |
| Sulphate (SO4) | mg/kg | <10 | <10 | <10 | 18 | <10 | 24 | <10 | <10 | 220 | <10 | 17 | <10 | <10 | 50 | <10 | <10 | <10 |
| Total Carbon-combustion IR | g/kg | - | - | - | - | - | 13 | - | - | - | - | - | - | - | - | - | - | - |
| Total Sulphur (S) | % g/g | - | - | - | - | - | 0.38 | - | - | - | - | - | - | - | - | - | - | - |

Notes:
Bold and Shaded Result exceeds the applicable screening criteria.
a. Nova Scotia, 2021. Tier 1 Environmental Quality Standards for Soil at a Potable Site (Industrial land use and coarse grained soil).

**Table D.5: Modified Acid-Base Accounting in Soil Samples
Goldboro Gold Mine Project, Guysborough County, NS**

| Parameters ¹ | Units | GHD | | | | | | |
|-------------------------------|------------------------------|-------------|-----------|-----------|------------|-----------|-----------|------------|
| | | A-24 | B-37 | DUP-T | B-38 | D-07 | D-22 | E-35 |
| Sample Depth (m) | | 0.25 - 0.45 | 0.1 - 0.2 | 0.1 - 0.2 | 0.05 - 0.2 | 0.1 - 0.6 | 0.5 - 0.9 | 0.2 - 0.35 |
| Sample Date | | 14-Jun-21 | 15-Jun-21 | 15-Jun-21 | 15-Jun-21 | 16-Jun-21 | 16-Jun-21 | 17-Jun-21 |
| Paste pH | - | 5.5 | 4.1 | 4 | 5.2 | 4.8 | 4.2 | 4.3 |
| Total Sulfur ² | % | 0.082 | 0.009 | 0.008 | 0.103 | <0.005 | 0.353 | 0.018 |
| Sulfate (as S) ³ | % | 0.009 | 0.009 | 0.007 | 0.052 | <0.005 | 0.065 | 0.013 |
| Sulfide ⁴ | % | 0.073 | <0.005 | <0.005 | 0.051 | <0.005 | 0.288 | 0.005 |
| Acid Production Potential | Kg CaCO ₃ / tonne | 2.3 | <0.2 | <0.2 | 1.6 | <0.2 | 9 | 0.2 |
| Neutralizing Potential pH 8.3 | Kg CaCO ₃ / tonne | 1.4 | -1.4 | -0.2 | -1.2 | 0.7 | -41.1 | -6.2 |
| Net NP pH 8.3 | Kg CaCO ₃ / tonne | -0.8 | -1.4 | -0.3 | -2.8 | 0.7 | -50.1 | -6.4 |
| NP/AP | - | 0.6 | - | - | -0.8 | - | -4.6 | -39.8 |

Notes:

- (1) The modified acid/base accounting was determined by the Sobek method.
- (2) Total Sulfur was determined using a combustion/infrared method.
- (3) Acid soluble, non-volatile sulfur species (sulfate (as S)).
- (4) Sulfide was determined as the difference between Total Sulfur and Sulfate (as S).

Table D.6: Grain Size Distributions
Goldboro Gold Mine Project, Guysborough County, NS

| Parameters | Units | GHD | | | | | | | | | | | | |
|-------------------------|-------|-----------|-------------|-------------|------------|-----------|--------------------|------------|------------|-----------|-----------|-----------|------------|-------------|
| | | A-14 | A-24 | A-36 | B-36 | B-37 | DUP-T (FD of B-37) | C-13 | C-18 | D-07 | D-22 | E-31 | E-35 | E-45 |
| Sample Depth (m) | | 0.3 - 0.5 | 0.25 - 0.45 | 0.05 - 0.30 | 0.05 - 0.3 | 0.1 - 0.2 | 0.1 - 0.2 | 0.01 - 0.2 | 0.1 - 0.22 | 0.1 - 0.6 | 0.5 - 0.9 | 0 - 0.25 | 0.2 - 0.35 | 0.15 - 0.30 |
| Sample Date | | 14-Jun-21 | 14-Jun-21 | 14-Jun-21 | 15-Jun-21 | 15-Jun-21 | 15-Jun-21 | 16-Jun-21 | 16-Jun-21 | 16-Jun-21 | 16-Jun-21 | 17-Jun-21 | 17-Jun-21 | 17-Jun-21 |
| < -1 Phi (2 mm) | % | 75 | 99 | 91 | 87 | 100 | 100 | 100 | 81 | 100 | 99 | 100 | 98 | 99 |
| < 0 Phi (1 mm) | % | 69 | 98 | 88 | 83 | 100 | 100 | 100 | 67 | 100 | 96 | 100 | 96 | 90 |
| < +1 Phi (0.5 mm) | % | 63 | 97 | 84 | 80 | 99 | 99 | 100 | 50 | 98 | 91 | 99 | 92 | 82 |
| < +2 Phi (0.25 mm) | % | 55 | 95 | 76 | 74 | 94 | 91 | 95 | 33 | 74 | 86 | 90 | 79 | 76 |
| < +3 Phi (0.12 mm) | % | 47 | 95 | 63 | 63 | 66 | 64 | 89 | 21 | 36 | 83 | 67 | 51 | 73 |
| < +4 Phi (0.062 mm) | % | 39 | 94 | 47 | 47 | 32 | 36 | 79 | 15 | 13 | 81 | 42 | 34 | 71 |
| < +5 Phi (0.031 mm) | % | 33 | 92 | 33 | 33 | 14 | 15 | 67 | 11 | 6.4 | 79 | 24 | 27 | 67 |
| < +6 Phi (0.016 mm) | % | 22 | 83 | 20 | 22 | 4.6 | 5.7 | 41 | 8.3 | 4.2 | 76 | 10 | 21 | 66 |
| < +7 Phi (0.0078 mm) | % | 11 | 51 | 11 | 13 | 1.1 | 1.6 | 11 | 5.7 | 1.5 | 70 | 2.8 | 14 | 59 |
| < +8 Phi (0.0039 mm) | % | 9.3 | 40 | 9 | 9.8 | 0.49 | 1.2 | 6.4 | 4.9 | 0.98 | 65 | 1.8 | 11 | 53 |
| < +9 Phi (0.0020 mm) | % | 6.3 | 25 | 7.3 | 6.8 | 0.53 | 0.8 | 2.6 | 3.8 | 0.72 | 60 | 0.84 | 7.2 | 54 |
| Gravel | % | 25 | 0.89 | 9.5 | 13 | <0.10 | <0.10 | <0.10 | 19 | <0.10 | 0.73 | <0.10 | 1.7 | 0.77 |
| Sand | % | 36 | 5.4 | 44 | 40 | 68 | 64 | 21 | 66 | 87 | 18 | 58 | 65 | 28 |
| Silt | % | 30 | 54 | 38 | 37 | 32 | 35 | 73 | 9.9 | 12 | 16 | 41 | 23 | 18 |
| Clay | % | 9.3 | 40 | 9 | 9.8 | 0.49 | 1.2 | 6.4 | 4.9 | 0.98 | 65 | 1.8 | 11 | 53 |

Table D.7: Soil QA/QC (Field Duplicates)

| Parameters | Units | A-45 | | | | B-37 | | | | C-03 | | | | D-07 | | | | E-35 | | | |
|-----------------------|-------|-------------|-----------|--------|---------------------------------|-------------|-----------|--------|---------------------------------|-------------|-----------|--------|---------------------------------|-------------|-----------|--------|---------------------------------|-------------|-----------|--------|---------------------------------|
| | | RDL (mg/kg) | 14-Jun-21 | DUP-A | Relative Percent Difference (%) | RDL (mg/kg) | 15-Jun-21 | DUP-B | Relative Percent Difference (%) | RDL (mg/kg) | 16-Jun-21 | DUP-C | Relative Percent Difference (%) | RDL (mg/kg) | 16-Jun-21 | DUP-D | Relative Percent Difference (%) | RDL (mg/kg) | 16-Jun-21 | DUP-F | Relative Percent Difference (%) |
| Metals | | | | | | | | | | | | | | | | | | | | | |
| Aluminum (Al) | mg/kg | 10 | 20000 | 19000 | 5 | 10 | 15000 | 13000 | 14 | 10 | 5000 | 6800 | 31 | 10 | 12000 | 11000 | 9 | 10 | 9700 | 8600 | 12 |
| Antimony (Sb) | mg/kg | 2 | <2.0 | <2.0 | NC | 2 | 4.3 | 5.1 | NC | 2 | <2.0 | <2.0 | NC | 2 | 8.9 | 8 | 11 | 2 | 20 | 15 | 29 |
| Arsenic (As) | mg/kg | 2 | 14 | 15 | 7 | 2 | 9500 | 11000 | 15 | 2 | 200 | 250 | 22 | 2 | 11000 | 9900 | 11 | 2 | 28000 | 22000 | 24 |
| Barium (Ba) | mg/kg | 5 | 26 | 27 | 4 | 5 | 82 | 72 | 13 | 5 | 8.1 | 13 | NC | 5 | 67 | 61 | 9 | 5 | 47 | 44 | 7 |
| Beryllium (Be) | mg/kg | 2 | <2.0 | <2.0 | NC | 2 | <2.0 | <2.0 | NC | 2 | <2.0 | <2.0 | NC | 2 | <2.0 | <2.0 | NC | 2 | <2.0 | <2.0 | NC |
| Bismuth (Bi) | mg/kg | 2 | <2.0 | <2.0 | NC | 2 | <2.0 | <2.0 | NC | 2 | <2.0 | <2.0 | NC | 2 | <2.0 | <2.0 | NC | 2 | <2.0 | <2.0 | NC |
| Boron (B) | mg/kg | 50 | <50 | <50 | NC | 50 | <50 | <50 | NC | 50 | <50 | <50 | NC | 50 | <50 | <50 | NC | 50 | <50 | <50 | NC |
| Cadmium (Cd) | mg/kg | 0.3 | <0.30 | <0.30 | NC | 0.3 | <0.30 | <0.30 | NC | 0.3 | <0.30 | <0.30 | NC | 0.3 | <0.30 | <0.30 | NC | 0.3 | <0.30 | <0.30 | NC |
| Chromium (Cr) | mg/kg | 2 | 22 | 24 | 9 | 2 | 23 | 20 | 14 | 2 | 8 | 11 | 32 | 2 | 19 | 19 | 0 | 2 | 16 | 16 | 0 |
| Cobalt (Co) | mg/kg | 1 | 4 | 4.5 | NC | 1 | <1.0 | 1.4 | NC | 1 | 1 | 2 | NC | 1 | 1 | <1.0 | NC | 1 | 3 | 1 | NC |
| Copper (Cu) | mg/kg | 2 | 8 | 9.1 | NC | 2 | 3 | 7.6 | NC | 2 | <2.0 | 2 | NC | 2 | 8 | 7 | 10 | 2 | 8 | 8 | 2 |
| Iron (Fe) | mg/kg | 50 | 19,000 | 19,000 | 0 | 50 | 32,000 | 31,000 | 3 | 50 | 14,000 | 15,000 | 7 | 50 | 29,000 | 26,000 | 11 | 50 | 40,000 | 35,000 | 13 |
| Lead (Pb) | mg/kg | 0.5 | 9 | 9.3 | 6 | 0.5 | 24 | 48 | 67 | 0.5 | 5 | 7 | 34 | 0.5 | 52 | 39 | 29 | 0.5 | 96 | 74 | 26 |
| Lithium (Li) | mg/kg | 2 | 19 | 19 | 0 | 2 | 27 | 22 | 20 | 2 | 3 | 5 | NC | 2 | 21 | 20 | 5 | 2 | 14 | 12 | 15 |
| Manganese (Mn) | mg/kg | 2 | 150 | 160 | 6 | 2 | 380 | 310 | 20 | 2 | 47 | 77 | 48 | 2 | 290 | 260 | 11 | 2 | 200 | 170 | 16 |
| Mercury (Hg) | mg/kg | 0.1 | <0.10 | <0.10 | NC | 0.1 | 6.2 | 4.5 | 32 | 0.1 | 0.1 | 0.2 | NC | 0.1 | 3 | 3 | 7 | 0.1 | 15 | 15 | 0 |
| Molybdenum (Mo) | mg/kg | 2 | <2.0 | <2.0 | NC | 2 | <2.0 | <2.0 | NC | 2 | <2.0 | <2.0 | NC | 2 | <2.0 | <2.0 | NC | 2 | <2.0 | <2.0 | NC |
| Nickel (Ni) | mg/kg | 2 | 13 | 13 | 0 | 2 | 7.9 | 8 | NC | 2 | 3 | 5 | NC | 2 | 8 | 7 | 8 | 2 | 9 | 6 | NC |
| Rubidium (Rb) | mg/kg | 2 | 10 | 11 | 12 | 2 | 53 | 43 | 21 | 2 | 4 | 5 | NC | 2 | 40 | 38 | 5 | 2 | 27 | 22 | 20 |
| Selenium (Se) | mg/kg | 0.5 | 1 | 0.87 | NC | 0.5 | <0.50 | <0.50 | NC | 0.5 | 1 | 1 | NC | 0.5 | <0.50 | <0.50 | NC | 0.5 | <0.50 | 1 | NC |
| Silver (Ag) | mg/kg | 0.5 | <0.50 | <0.50 | NC | 0.5 | <0.50 | <0.50 | NC | 0.5 | <0.50 | <0.50 | NC | 0.5 | <0.50 | <0.50 | NC | 0.5 | 1 | 1 | NC |
| Strontium (Sr) | mg/kg | 5 | <5.0 | <5.0 | NC | 5 | <5.0 | <5.0 | NC | 5 | <5.0 | <5.0 | NC | 5 | 9 | 8 | 10 | 5 | 7 | 5 | NC |
| Thallium (Tl) | mg/kg | 0.1 | 0 | 0.11 | NC | 0.1 | 0.37 | 0.33 | 11 | 0.1 | <0.10 | <0.10 | NC | 0.1 | 0 | 0 | 10 | 0.1 | 0 | 0 | NC |
| Tin (Sn) | mg/kg | 1 | <1.0 | <1.0 | NC | 1 | 2.1 | <1.0 | NC | 1 | <1.0 | <1.0 | NC | 1 | <1.0 | <1.0 | NC | 1 | <1.0 | <1.0 | NC |
| Uranium (U) | mg/kg | 0.1 | 1 | 0.81 | 15 | 0.1 | 0.53 | 0.39 | 30 | 0.1 | 0 | 1 | 17 | 0.1 | 0 | 0 | 13 | 0.1 | 0 | 0 | NC |
| Vanadium (V) | mg/kg | 2 | 23 | 24 | 4 | 2 | 26 | 24 | 8 | 2 | 29 | 31 | 7 | 2 | 21 | 19 | 10 | 2 | 19 | 18 | 5 |
| Zinc (Zn) | mg/kg | 5 | 30 | 30 | 0 | 5 | 42 | 39 | 7 | 5 | 6 | 10 | NC | 5 | 39 | 31 | 23 | 5 | 31 | 21 | 38 |
| Inorganics | | | | | | | | | | | | | | | | | | | | | |
| Ammonia-N | mg/kg | 0.39 | 73 | 91 | 22 | 0.33 | <0.33 | <0.33 | NC | 0.37 | 0.61 | 0.43 | NC | 0.33 | <0.33 | <0.32 | NC | 0.41 | <0.41 | <0.43 | NC |
| Chloride (Cl-) | mg/kg | 5 | <1.0 | <1.0 | NC | 5 | 5.2 | 10 | NC | 5 | 8.5 | 13 | NC | 5 | <5.0 | <5.0 | NC | 5 | 10 | 8.6 | NC |
| Conductivity | uS/cm | 1 | 1.1 | 1.2 | NC | 1 | 29 | 38 | 27 | 1 | 33 | 45 | 31 | 1 | 16 | 19 | 17 | 1 | 47 | 55 | 16 |
| Moisture | % | 1 | <1.0 | <1.0 | NC | 1 | 22 | 23 | 4 | 1 | 27 | 38 | 34 | 1 | 20 | 20 | 0 | 1 | 34 | 37 | 8 |
| Nitrate + Nitrite (N) | mg/kg | 0.25 | <2.0 | <2.0 | NC | 0.25 | <0.25 | 0.42 | NC | 0.25 | 0.6 | 0.25 | NC | 0.25 | <0.25 | <0.25 | NC | 0.25 | 0.41 | 0.53 | NC |
| Nitrite (N) | mg/kg | 0.05 | <50 | <50 | NC | 0.05 | <0.050 | <0.050 | NC | 0.05 | <0.050 | <0.050 | NC | 0.05 | <0.050 | <0.050 | NC | 0.05 | <0.050 | <0.050 | NC |
| Orthophosphate (P) | mg/kg | 0.05 | 44000 | 44000 | 0 | 0.25 | 3.8 | 14 | 115 | 0.05 | 0.074 | 0.13 | NC | 0.25 | 9 | 13 | 36 | 0.25 | 9.5 | 11 | 15 |
| Soluble (5:1) pH | pH | N/A | <1.0 | <1.0 | NC | N/A | 4.53 | 4.71 | 4 | N/A | 4.62 | 4.63 | 0 | N/A | 4.93 | 4.68 | 5 | N/A | 4.42 | 4.28 | 3 |
| Sulphate (SO4) | mg/kg | 11 | <0.40 | <0.40 | NC | 10 | 15 | 12 | 22 | 10 | <10 | <10 | NC | 10 | <10 | <10 | NC | 10 | 24 | <10 | NC |

Notes:

NC = not calculated

RPD calculated when one or both samples are $\geq 5 \times$ RDL.

Table D.7: Soil QA/QC (Field Duplicates)

| Parameters | Units | E-74 | | | | ANX-A4b | | | | ANX-A8a | | | |
|-----------------------|-------|-------------|-----------|--------|---------------------------------|-------------|----------|-------|---------------------------------|-------------|----------|--------|---------------------------------|
| | | RDL (mg/kg) | 16-Jun-21 | DUP-E | Relative Percent Difference (%) | RDL (mg/kg) | 1-Sep-21 | DUP | Relative Percent Difference (%) | RDL (mg/kg) | 1-Sep-21 | DUP | Relative Percent Difference (%) |
| Metals | | | | | | | | | | | | | |
| Aluminum (Al) | mg/kg | 10 | 3400 | 3100 | 9 | 100 | 53500 | 49500 | 8 | 100 | 93500 | 111500 | 18 |
| Antimony (Sb) | mg/kg | 2 | <2.0 | <2.0 | NC | 3 | <3 | <3 | NC | 3 | <3 | 5 | NC |
| Arsenic (As) | mg/kg | 2 | 3 | 4.9 | NC | 5 | 598 | 387 | 43 | 5 | 582 | 504 | 14 |
| Barium (Ba) | mg/kg | 5 | 6.5 | 6.4 | NC | 5 | 418 | 386 | 8 | 5 | 1082 | 1127 | 4 |
| Beryllium (Be) | mg/kg | 2 | <2.0 | <2.0 | NC | 0.5 | 2.6 | 2.3 | NC | 0.5 | 6.1 | 6.1 | 0 |
| Bismuth (Bi) | mg/kg | 2 | <2.0 | <2.0 | NC | 2 | <2 | <2 | NC | 2 | <2 | <2 | NC |
| Boron (B) | mg/kg | 50 | <50 | <50 | NC | - | - | - | - | - | - | - | - |
| Cadmium (Cd) | mg/kg | 0.3 | <0.30 | <0.30 | NC | 0.5 | 1.4 | 0.8 | NC | 0.5 | 0.8 | 1.4 | NC |
| Chromium (Cr) | mg/kg | 2 | 4 | 4 | NC | 5 | 41 | 43 | 5 | 5 | 61 | 55 | 10 |
| Cobalt (Co) | mg/kg | 1 | <1.0 | <1.0 | NC | 2 | 4 | 3 | NC | 2 | 5 | 6 | NC |
| Copper (Cu) | mg/kg | 2 | <2.0 | <2.0 | NC | 5 | 18 | 16 | NC | 5 | 18 | 19 | NC |
| Iron (Fe) | mg/kg | 50 | 1,700 | 1,600 | 6 | 100 | 13500 | 13300 | 1 | 100 | 27400 | 29700 | 8 |
| Lead (Pb) | mg/kg | 0.5 | 4.7 | 4.7 | 0 | 2 | 21 | 26 | 21 | 2 | 31 | 33 | 6 |
| Lithium (Li) | mg/kg | 2 | <2.0 | <2.0 | NC | - | - | - | - | - | - | - | - |
| Manganese (Mn) | mg/kg | 2 | 30 | 30 | 0 | 1 | 733 | 691 | 6 | 1 | 459 | 510 | 11 |
| Mercury (Hg) | mg/kg | 0.1 | <0.10 | <0.10 | NC | 0.1 | 0.98 | - | NC | 0.1 | 4.3 | - | NC |
| Molybdenum (Mo) | mg/kg | 2 | <2.0 | <2.0 | NC | 1 | 1 | 1 | NC | 1 | 1 | <1 | NC |
| Nickel (Ni) | mg/kg | 2 | <2.0 | <2.0 | NC | 1 | 14 | 9 | 43 | 1 | 18 | 18 | 0 |
| Rubidium (Rb) | mg/kg | 2 | 3 | 3 | NC | - | - | - | - | - | - | - | - |
| Selenium (Se) | mg/kg | 0.5 | <0.50 | <0.50 | NC | 10 | <10 | <10 | NC | 10 | <10 | <10 | NC |
| Silver (Ag) | mg/kg | 0.5 | <0.50 | <0.50 | NC | 0.2 | <0.2 | <0.2 | NC | 0.2 | <0.2 | <0.2 | NC |
| Strontium (Sr) | mg/kg | 5 | <5.0 | <5.0 | NC | 1 | 83 | 76 | 9 | 1 | 73 | 79 | 8 |
| Thallium (Tl) | mg/kg | 0.1 | <0.10 | <0.10 | NC | - | - | - | - | - | - | - | - |
| Tin (Sn) | mg/kg | 1 | <1.0 | <1.0 | NC | 10 | <10 | <10 | NC | 10 | <10 | <10 | NC |
| Uranium (U) | mg/kg | 0.1 | 0 | 0 | NC | 2 | <2 | <2 | NC | 2 | <2 | <2 | NC |
| Vanadium (V) | mg/kg | 2 | 5 | 5 | NC | 1 | 50 | 47 | 6 | 1 | 125 | 132 | 5 |
| Zinc (Zn) | mg/kg | 5 | <5.0 | <5.0 | NC | 5 | 39 | 37 | 5 | 5 | 81 | 88 | 8 |
| Inorganics | | | | | | | | | | | | | |
| Ammonia-N | mg/kg | 0.36 | <0.36 | <0.35 | NC | - | - | - | - | - | - | - | - |
| Chloride (Cl-) | mg/kg | 5 | 12 | 9.7 | NC | - | - | - | - | - | - | - | - |
| Conductivity | uS/cm | 1 | 36 | 28 | 25 | - | - | - | - | - | - | - | - |
| Moisture | % | 1 | 28 | 26 | 7 | - | - | - | - | - | - | - | - |
| Nitrate + Nitrite (N) | mg/kg | 0.25 | 0.39 | <0.25 | NC | - | - | - | - | - | - | - | - |
| Nitrite (N) | mg/kg | 0.05 | <0.050 | <0.050 | NC | - | - | - | - | - | - | - | - |
| Orthophosphate (P) | mg/kg | 0.05 | 0.073 | 0.1 | NC | - | - | - | - | - | - | - | - |
| Soluble (5:1) pH | pH | N/A | 4.76 | 4.75 | 0 | - | - | - | - | - | - | - | - |
| Sulphate (SO4) | mg/kg | 10 | <10 | <10 | NC | - | - | - | - | - | - | - | - |

Notes:

NC = not calculated

RPD calculated when one or both samples are $\geq 5 \times$ RDL.

Appendix E

Laboratory Certificates of Analysis



Your P.O. #: TO FOLLOW
 Your Project #: 11222385
 Site Location: GOLDBORO
 Your C.O.C. #: N/A

Attention: Glen Merkley

GHD Limited
 120 Western Parkway
 Bedford, NS
 CANADA B4B 0V2

Report Date: 2021/07/14
 Report #: R6718985
 Version: 3 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1H4101

Received: 2021/06/22, 16:33

Sample Matrix: Soil
 # Samples Received: 63

| Analyses | Quantity | Date | Date | Laboratory Method | Analytical Method |
|---|----------|------------|------------|-------------------|----------------------|
| | | Extracted | Analyzed | | |
| Chloride in Soil by Auto. Colourimetry | 8 | N/A | 2021/07/05 | ATL SOP 00014 | SM 23 4500-Cl- E m |
| Chloride in Soil by Auto. Colourimetry | 7 | N/A | 2021/07/06 | ATL SOP 00014 | SM 23 4500-Cl- E m |
| Chloride in Soil by Auto. Colourimetry | 1 | N/A | 2021/07/07 | ATL SOP 00014 | SM 23 4500-Cl- E m |
| Chloride in Soil by Auto. Colourimetry | 46 | N/A | 2021/07/08 | ATL SOP 00014 | SM 23 4500-Cl- E m |
| Conductance - soil | 8 | 2021/06/29 | 2021/06/29 | ATL SOP 00004 | SM 23 2510B m |
| Conductance - soil | 7 | 2021/07/05 | 2021/07/05 | ATL SOP 00004 | SM 23 2510B m |
| Conductance - soil | 46 | 2021/07/06 | 2021/07/07 | ATL SOP 00004 | SM 23 2510B m |
| Conductance - soil | 1 | 2021/07/07 | 2021/07/07 | ATL SOP 00004 | SM 23 2510B m |
| Metals Solids Acid Extr. ICPMS | 6 | 2021/06/29 | 2021/06/29 | ATL SOP 00058 | EPA 6020B R2 m |
| Metals Solids Acid Extr. ICPMS | 2 | 2021/06/29 | 2021/06/30 | ATL SOP 00058 | EPA 6020B R2 m |
| Metals Solids Acid Extr. ICPMS | 5 | 2021/06/30 | 2021/07/02 | ATL SOP 00058 | EPA 6020B R2 m |
| Metals Solids Acid Extr. ICPMS | 5 | 2021/06/30 | 2021/07/05 | ATL SOP 00058 | EPA 6020B R2 m |
| Metals Solids Acid Extr. ICPMS | 1 | 2021/06/30 | 2021/07/06 | ATL SOP 00058 | EPA 6020B R2 m |
| Metals Solids Acid Extr. ICPMS | 2 | 2021/07/05 | 2021/07/05 | ATL SOP 00058 | EPA 6020B R2 m |
| Metals Solids Acid Extr. ICPMS | 17 | 2021/07/06 | 2021/07/06 | ATL SOP 00058 | EPA 6020B R2 m |
| Metals Solids Acid Extr. ICPMS | 24 | 2021/07/06 | 2021/07/07 | ATL SOP 00058 | EPA 6020B R2 m |
| Sulfur (1) | 7 | N/A | 2021/07/05 | STL SOP-00028 | MA. 310-CS 1.0 R3 m |
| Moisture | 8 | N/A | 2021/06/29 | ATL SOP 00001 | OMOE Handbook 1983 m |
| Moisture | 13 | N/A | 2021/06/30 | ATL SOP 00001 | OMOE Handbook 1983 m |
| Moisture | 41 | N/A | 2021/07/03 | ATL SOP 00001 | OMOE Handbook 1983 m |
| Nitrogen Ammonia - soil (as N) | 1 | 2021/06/29 | 2021/07/07 | ATL SOP 00015 | EPA 350.1 R2 m |
| Nitrogen Ammonia - soil (as N) | 1 | 2021/07/02 | 2021/07/07 | ATL SOP 00015 | EPA 350.1 R2 m |
| Nitrogen Ammonia - soil (as N) | 60 | 2021/07/05 | 2021/07/07 | ATL SOP 00015 | EPA 350.1 R2 m |
| Nitrogen - Nitrate + Nitrite | 8 | 2021/07/02 | 2021/07/05 | ATL SOP 00016 | USGS I-2547-11m |
| Nitrogen - Nitrate + Nitrite | 7 | 2021/07/06 | 2021/07/06 | ATL SOP 00016 | USGS I-2547-11m |
| Nitrogen - Nitrate + Nitrite | 47 | 2021/07/07 | 2021/07/07 | ATL SOP 00016 | USGS I-2547-11m |
| Nitrogen - Nitrite by auto colourimetry | 8 | 2021/07/02 | 2021/07/05 | ATL SOP 00017 | SM 23 4500-NO2- B m |
| Nitrogen - Nitrite by auto colourimetry | 7 | 2021/07/06 | 2021/07/06 | ATL SOP 00017 | SM 23 4500-NO2- B m |
| Nitrogen - Nitrite by auto colourimetry | 33 | 2021/07/07 | 2021/07/07 | ATL SOP 00017 | SM 23 4500-NO2- B m |
| Nitrogen - Nitrite by auto colourimetry | 14 | 2021/07/07 | 2021/07/08 | ATL SOP 00017 | SM 23 4500-NO2- B m |
| pH (5:1 DI Water Extract) | 8 | 2021/06/29 | 2021/06/29 | ATL SOP 00003 | SM 23 4500-H+ B m |
| pH (5:1 DI Water Extract) | 8 | 2021/07/05 | 2021/07/05 | ATL SOP 00003 | SM 23 4500-H+ B m |



Your P.O. #: TO FOLLOW
 Your Project #: 11222385
 Site Location: GOLDBORO
 Your C.O.C. #: N/A

Attention: Glen Merkley

GHD Limited
 120 Western Parkway
 Bedford, NS
 CANADA B4B 0V2

Report Date: 2021/07/14
 Report #: R6718985
 Version: 3 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1H4101

Received: 2021/06/22, 16:33

Sample Matrix: Soil
 # Samples Received: 63

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|--|-----------------|---------------------------|--------------------------|--------------------------|--------------------------|
| pH (5:1 DI Water Extract) | 46 | 2021/07/06 | 2021/07/07 | ATL SOP 00003 | SM 23 4500-H+ B m |
| Phosphorus - ortho by auto Colourimetry | 8 | 2021/07/02 | 2021/07/05 | ATL SOP 00021 | SM 23 4500-P E m |
| Phosphorus - ortho by auto Colourimetry | 7 | 2021/07/06 | 2021/07/06 | ATL SOP 00021 | SM 23 4500-P E m |
| Phosphorus - ortho by auto Colourimetry | 46 | 2021/07/07 | 2021/07/07 | ATL SOP 00021 | SM 23 4500-P E m |
| Phosphorus - ortho by auto Colourimetry | 1 | 2021/07/07 | 2021/07/08 | ATL SOP 00021 | SM 23 4500-P E m |
| Particle size in solids (pipette&sieve) (4) | 13 | N/A | 2021/07/14 | ATL SOP 00012 | MSAMS'78/WREP-125R3m |
| Sulphate in Soil by Auto Colourimetry | 8 | 2021/07/02 | 2021/07/05 | ATL SOP 00023 | ASTM D516-16 m |
| Sulphate in Soil by Auto Colourimetry | 7 | 2021/07/06 | 2021/07/06 | ATL SOP 00023 | ASTM D516-16 m |
| Sulphate in Soil by Auto Colourimetry | 47 | 2021/07/07 | 2021/07/07 | ATL SOP 00023 | ASTM D516-16 m |
| Acid Rock Drain. in S (Sub from Bedford) (2) | 7 | 2021/07/09 | 2021/07/12 | | |
| Methyl Mercury Soil (sub from Bedford) (3) | 8 | 2021/07/09 | 2021/07/06 | | |
| Methyl Mercury Soil (sub from Bedford) (3) | 5 | 2021/07/09 | 2021/07/08 | | |
| Total Carbon in Solids by Ind. | 7 | 2021/07/07 | 2021/07/07 | ATL SOP 00044 | LECO203601224 1991 m |
| TIC in soil | 7 | 2021/06/25 | 2021/07/07 | ATL SOP 00044 | LECO203601224 1991m |
| Total Organic Carbon in Soil | 4 | 2021/07/02 | 2021/07/02 | ATL SOP 00044 | LECO203601224 1991 m |
| Total Organic Carbon in Soil | 1 | 2021/07/02 | 2021/07/06 | ATL SOP 00044 | LECO203601224 1991 m |
| Total Organic Carbon in Soil | 2 | 2021/07/06 | 2021/07/06 | ATL SOP 00044 | LECO203601224 1991 m |
| Total Organic Carbon in Soil | 7 | 2021/07/07 | 2021/07/07 | ATL SOP 00044 | LECO203601224 1991 m |

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

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Your P.O. #: TO FOLLOW
Your Project #: 11222385
Site Location: GOLDBORO
Your C.O.C. #: N/A

Attention: Glen Merkley

GHD Limited
120 Western Parkway
Bedford, NS
CANADA B4B 0V2

Report Date: 2021/07/14
Report #: R6718985
Version: 3 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1H4101

Received: 2021/06/22, 16:33

customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

- (1) This test was performed by Bureau Veritas Montreal via Bedford
- (2) This test was performed by Bedford to RPC Subcontract
- (3) This test was performed by Sub Bedford to Flett Research
- (4) Note: Graphical representation of larger fractions (PHI-4, PHI -3 and PHI -2) not applicable unless these optional parameters are specifically requested.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Atena Georgescu, Project Manager II
Email: Atena.Georgescu@bureauveritas.com
Phone# (902)420-0203 Ext:239

=====

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



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BV Labs Job #: C1H4101
Report Date: 2021/07/14

GHD Limited
Client Project #: 11222385
Site Location: GOLDBORO
Your P.O. #: TO FOLLOW
Sampler Initials: JV

RESULTS OF ANALYSES OF SOIL

| BV Labs ID | | PXP276 | PXP276 | PXP277 | | PXP278 | | | PXP279 | | |
|---------------|-------|---------------------|---------------------|---------------------|-----|---------------------|-----|----------|---------------------|-----|----------|
| Sampling Date | | 2021/06/14 15:40 | 2021/06/14 15:40 | 2021/06/14 14:45 | | 2021/06/14 17:35 | | | 2021/06/14 14:05 | | |
| COC Number | | N/A | N/A | N/A | | N/A | | | N/A | | |
| | UNITS | A-05 | A-05 Lab-Dup | A-08 | RDL | A-13 | RDL | QC Batch | A-14 | RDL | QC Batch |

| Inorganics | | | | | | | | | | | |
|-----------------------|-------|--------|---------|--------|-------|---------|-------|---------|--------|-------|---------|
| Ammonia-N | mg/kg | <0.38 | <0.38 | <0.38 | 0.38 | <0.36 | 0.36 | 7446423 | <0.41 | 0.41 | 7446423 |
| Chloride (Cl-) | mg/kg | 11 | 7.7 | 9.0 | 5.0 | 5.4 | 5.0 | 7440858 | 14 | 5.0 | 7440858 |
| Conductivity | uS/cm | 15 | 14 | 21 | 1.0 | 9.1 | 1.0 | 7435915 | 51 | 1.0 | 7435915 |
| Moisture | % | 30 | 31 | 29 | 1.0 | 27 | 1.0 | 7432666 | 36 | 1.0 | 7432666 |
| Nitrate + Nitrite (N) | mg/kg | 0.52 | 0.50 | 1.4 | 0.25 | <0.25 | 0.25 | 7440867 | 6.9 | 0.25 | 7440867 |
| Nitrite (N) | mg/kg | <0.050 | <0.050 | <0.050 | 0.050 | <0.050 | 0.050 | 7440868 | <0.050 | 0.050 | 7440868 |
| Organic Carbon (TOC) | g/kg | | | | | | | | 32 | 0.50 | 7440667 |
| Orthophosphate (P) | mg/kg | 0.081 | <0.050 | 0.16 | 0.050 | <0.050 | 0.050 | 7440865 | 2.2 | 0.050 | 7440865 |
| Soluble (5:1) pH | pH | 5.54 | 5.34 | 5.10 | N/A | 5.60 | N/A | 7435909 | 6.07 | N/A | 7435909 |
| Sulphate (SO4) | mg/kg | 11 (1) | <11 (1) | 11 (1) | 11 | <11 (1) | 11 | 7440860 | 30 (1) | 11 | 7440860 |
| < -1 Phi (2 mm) | % | | | | | | | | 75 (2) | 0.10 | 7444081 |
| < 0 Phi (1 mm) | % | | | | | | | | 69 (2) | 0.10 | 7444081 |
| < +1 Phi (0.5 mm) | % | | | | | | | | 63 | 0.10 | 7444081 |
| < +2 Phi (0.25 mm) | % | | | | | | | | 55 | 0.10 | 7444081 |
| < +3 Phi (0.12 mm) | % | | | | | | | | 47 | 0.10 | 7444081 |
| < +4 Phi (0.062 mm) | % | | | | | | | | 39 | 0.10 | 7444081 |
| < +5 Phi (0.031 mm) | % | | | | | | | | 33 | 0.10 | 7444081 |
| < +6 Phi (0.016 mm) | % | | | | | | | | 22 | 0.10 | 7444081 |
| < +7 Phi (0.0078 mm) | % | | | | | | | | 11 | 0.10 | 7444081 |
| < +8 Phi (0.0039 mm) | % | | | | | | | | 9.3 | 0.10 | 7444081 |
| < +9 Phi (0.0020 mm) | % | | | | | | | | 6.3 | 0.10 | 7444081 |
| Gravel | % | | | | | | | | 25 | 0.10 | 7444081 |
| Sand | % | | | | | | | | 36 | 0.10 | 7444081 |
| Silt | % | | | | | | | | 30 | 0.10 | 7444081 |
| Clay | % | | | | | | | | 9.3 | 0.10 | 7444081 |

| Subcontracted Analysis | | | | | | | | | | | |
|------------------------|-----|--|--|--|--|--|--|--|----------|-----|---------|
| Subcontract Parameter | N/A | | | | | | | | ATTACHED | N/A | 7454407 |

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Lab-Dup = Laboratory Initiated Duplicate
 N/A = Not Applicable
 (1) Elevated reporting limit due to blank performance.
 (2) PSA sample observation comment: Fraction contained organic matter



BV Labs Job #: C1H4101
 Report Date: 2021/07/14

GHD Limited
 Client Project #: 11222385
 Site Location: GOLDBORO
 Your P.O. #: TO FOLLOW
 Sampler Initials: JV

RESULTS OF ANALYSES OF SOIL

| BV Labs ID | | PXP279 | | | PXP280 | | | PXP280 | | |
|---|-------|---------------------|------|----------|---------------------|-------|----------|---------------------|------|----------|
| Sampling Date | | 2021/06/14 14:05 | | | 2021/06/15 09:10 | | | 2021/06/15 09:10 | | |
| COC Number | | N/A | | | N/A | | | N/A | | |
| | UNITS | A-14 Lab-Dup | RDL | QC Batch | A-24 | RDL | QC Batch | A-24 Lab-Dup | RDL | QC Batch |
| Inorganics | | | | | | | | | | |
| Ammonia-N | mg/kg | | | | 7.2 | 0.89 | 7446601 | 8.1 | 0.89 | 7446601 |
| Chloride (Cl-) | mg/kg | | | | 29 | 5.0 | 7445697 | | | |
| Conductivity | uS/cm | | | | 130 | 1.0 | 7444093 | | | |
| Total Inorganic Carbon (C) | g/kg | | | | 4.8 | 0.5 | 7430582 | | | |
| Moisture | % | | | | 68 | 1.0 | 7435465 | | | |
| Nitrate + Nitrite (N) | mg/kg | | | | <0.25 | 0.25 | 7445714 | | | |
| Nitrite (N) | mg/kg | | | | <0.050 | 0.050 | 7445715 | | | |
| Organic Carbon (TOC) | g/kg | 32 | 0.50 | 7440667 | 130 | 0.50 | 7445432 | 120 | 0.50 | 7445432 |
| Orthophosphate (P) | mg/kg | | | | 0.068 | 0.050 | 7445711 | | | |
| Soluble (5:1) pH | pH | | | | 5.73 | N/A | 7444104 | | | |
| Sulphate (SO4) | mg/kg | | | | 100 | 10 | 7445708 | | | |
| Total Carbon-combustion IR | g/kg | | | | 130 | 0.50 | 7448515 | | | |
| < -1 Phi (2 mm) | % | 76 | 0.10 | 7444081 | 99 (1) | 0.10 | 7444081 | | | |
| < 0 Phi (1 mm) | % | 69 (1) | 0.10 | 7444081 | 98 (1) | 0.10 | 7444081 | | | |
| < +1 Phi (0.5 mm) | % | 62 | 0.10 | 7444081 | 97 (1) | 0.10 | 7444081 | | | |
| < +2 Phi (0.25 mm) | % | 54 | 0.10 | 7444081 | 95 (1) | 0.10 | 7444081 | | | |
| < +3 Phi (0.12 mm) | % | 46 | 0.10 | 7444081 | 95 | 0.10 | 7444081 | | | |
| < +4 Phi (0.062 mm) | % | 39 | 0.10 | 7444081 | 94 | 0.10 | 7444081 | | | |
| < +5 Phi (0.031 mm) | % | 34 | 0.10 | 7444081 | 92 | 0.10 | 7444081 | | | |
| < +6 Phi (0.016 mm) | % | 22 | 0.10 | 7444081 | 83 | 0.10 | 7444081 | | | |
| < +7 Phi (0.0078 mm) | % | 12 | 0.10 | 7444081 | 51 | 0.10 | 7444081 | | | |
| < +8 Phi (0.0039 mm) | % | 9.3 | 0.10 | 7444081 | 40 | 0.10 | 7444081 | | | |
| < +9 Phi (0.0020 mm) | % | 6.4 | 0.10 | 7444081 | 25 | 0.10 | 7444081 | | | |
| Gravel | % | 24 | 0.10 | 7444081 | 0.89 | 0.10 | 7444081 | | | |
| Sand | % | 37 | 0.10 | 7444081 | 5.4 | 0.10 | 7444081 | | | |
| Silt | % | 29 | 0.10 | 7444081 | 54 | 0.10 | 7444081 | | | |
| Clay | % | 9.3 | 0.10 | 7444081 | 40 | 0.10 | 7444081 | | | |
| Subcontracted Analysis | | | | | | | | | | |
| Subcontract Parameter | N/A | | | | ATTACHED | N/A | 7454407 | | | |
| RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable (1) PSA sample observation comment: Fraction contained organic matter | | | | | | | | | | |



RESULTS OF ANALYSES OF SOIL

| BV Labs ID | | PXP281 | | | PXP282 | | | PXP283 | | |
|--|-------|---------------------|-------|----------|---------------------|-------|----------|---------------------|-------|----------|
| Sampling Date | | 2021/06/14 15:40 | | | 2021/06/15 09:00 | | | 2021/06/15 09:30 | | |
| COC Number | | N/A | | | N/A | | | N/A | | |
| | UNITS | A-26 | RDL | QC Batch | A-28 | RDL | QC Batch | A-36 | RDL | QC Batch |
| Inorganics | | | | | | | | | | |
| Ammonia-N | mg/kg | <0.32 | 0.32 | 7446423 | 4.1 | 1.2 | 7446423 | <0.38 | 0.38 | 7446423 |
| Chloride (Cl-) | mg/kg | 8.4 | 5.0 | 7440858 | 60 | 5.0 | 7445697 | 15 | 5.0 | 7445697 |
| Conductivity | uS/cm | 37 | 1.0 | 7435915 | 160 | 1.0 | 7444093 | 35 | 1.0 | 7444093 |
| Moisture | % | 20 | 1.0 | 7432666 | 75 | 1.0 | 7435465 | 31 | 1.0 | 7435465 |
| Nitrate + Nitrite (N) | mg/kg | <0.25 | 0.25 | 7440867 | 0.73 | 0.25 | 7445714 | 0.69 | 0.25 | 7445714 |
| Nitrite (N) | mg/kg | <0.050 | 0.050 | 7440868 | <0.050 | 0.050 | 7445715 | <0.050 | 0.050 | 7445715 |
| Organic Carbon (TOC) | g/kg | | | | | | | 31 | 0.50 | 7440667 |
| Orthophosphate (P) | mg/kg | 0.22 | 0.050 | 7440865 | 0.14 | 0.050 | 7445711 | <0.050 | 0.050 | 7445711 |
| Soluble (5:1) pH | pH | 5.91 | N/A | 7435909 | 5.66 | N/A | 7444104 | 5.10 | N/A | 7444104 |
| Sulphate (SO4) | mg/kg | 45 (1) | 11 | 7440860 | 100 | 10 | 7445708 | <10 | 10 | 7445708 |
| < -1 Phi (2 mm) | % | | | | | | | 91 | 0.10 | 7444081 |
| < 0 Phi (1 mm) | % | | | | | | | 88 | 0.10 | 7444081 |
| < +1 Phi (0.5 mm) | % | | | | | | | 84 | 0.10 | 7444081 |
| < +2 Phi (0.25 mm) | % | | | | | | | 76 | 0.10 | 7444081 |
| < +3 Phi (0.12 mm) | % | | | | | | | 63 | 0.10 | 7444081 |
| < +4 Phi (0.062 mm) | % | | | | | | | 47 | 0.10 | 7444081 |
| < +5 Phi (0.031 mm) | % | | | | | | | 33 | 0.10 | 7444081 |
| < +6 Phi (0.016 mm) | % | | | | | | | 20 | 0.10 | 7444081 |
| < +7 Phi (0.0078 mm) | % | | | | | | | 11 | 0.10 | 7444081 |
| < +8 Phi (0.0039 mm) | % | | | | | | | 9.0 | 0.10 | 7444081 |
| < +9 Phi (0.0020 mm) | % | | | | | | | 7.3 | 0.10 | 7444081 |
| Gravel | % | | | | | | | 9.5 | 0.10 | 7444081 |
| Sand | % | | | | | | | 44 | 0.10 | 7444081 |
| Silt | % | | | | | | | 38 | 0.10 | 7444081 |
| Clay | % | | | | | | | 9.0 | 0.10 | 7444081 |
| Subcontracted Analysis | | | | | | | | | | |
| Subcontract Parameter | N/A | | | | | | | ATTACHED | N/A | 7454407 |
| RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable (1) Elevated reporting limit due to blank performance. | | | | | | | | | | |



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BV Labs Job #: C1H4101
Report Date: 2021/07/14

GHD Limited
Client Project #: 11222385
Site Location: GOLDBORO
Your P.O. #: TO FOLLOW
Sampler Initials: JV

RESULTS OF ANALYSES OF SOIL

| BV Labs ID | | PXP284 | | PXP285 | | | PXP287 | | | PXP288 | | |
|---------------|-------|---------------------|-----|---------------------|-----|----------|---------------------|-----|----------|---------------------|-----|----------|
| Sampling Date | | 2021/06/14 16:55 | | 2021/06/14 17:30 | | | 2021/06/15 14:50 | | | 2021/06/15 11:05 | | |
| COC Number | | N/A | | N/A | | | N/A | | | N/A | | |
| | UNITS | A-41 | RDL | A-45 | RDL | QC Batch | B-04 | RDL | QC Batch | B-06 | RDL | QC Batch |

| Inorganics | | | | | | | | | | | | |
|-----------------------|-------|--------|-------|--------|-------|---------|--------|-------|---------|--------|-------|---------|
| Ammonia-N | mg/kg | <0.35 | 0.35 | <0.39 | 0.39 | 7446423 | <0.42 | 0.42 | 7446423 | 3.1 | 1.9 | 7446423 |
| Chloride (Cl-) | mg/kg | <5.0 | 5.0 | <5.0 | 5.0 | 7440858 | 7.2 | 5.0 | 7445697 | 61 | 5.0 | 7448217 |
| Conductivity | uS/cm | 12 | 1.0 | 15 | 1.0 | 7435915 | 25 | 1.0 | 7444093 | 170 | 1.0 | 7448694 |
| Moisture | % | 25 | 1.0 | 33 | 1.0 | 7432666 | 37 | 1.0 | 7435465 | 84 | 1.0 | 7435465 |
| Nitrate + Nitrite (N) | mg/kg | <0.25 | 0.25 | 0.55 | 0.25 | 7440867 | <0.25 | 0.25 | 7445714 | 1.2 | 0.25 | 7448230 |
| Nitrite (N) | mg/kg | <0.050 | 0.050 | <0.050 | 0.050 | 7440868 | <0.050 | 0.050 | 7445715 | <0.050 | 0.050 | 7448231 |
| Orthophosphate (P) | mg/kg | <0.050 | 0.050 | <0.050 | 0.050 | 7440865 | 0.057 | 0.050 | 7445711 | 3.0 | 0.25 | 7448228 |
| Soluble (5:1) pH | pH | 5.12 | N/A | 5.18 | N/A | 7435909 | 5.16 | N/A | 7444104 | 4.23 | N/A | 7448682 |
| Sulphate (SO4) | mg/kg | 17 (1) | 11 | 23 (1) | 11 | 7440860 | 20 | 10 | 7445708 | 110 | 10 | 7448225 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable
(1) Elevated reporting limit due to blank performance.

| BV Labs ID | | PXP289 | | PXP290 | | | PXP291 | | |
|---------------|-------|---------------------|-----|---------------------|-----|----------|---------------------|-----|----------|
| Sampling Date | | 2021/06/15 12:40 | | 2021/06/15 14:30 | | | 2021/06/15 11:30 | | |
| COC Number | | N/A | | N/A | | | N/A | | |
| | UNITS | B-13 | RDL | B-21 | RDL | QC Batch | B-24 | RDL | QC Batch |

| Inorganics | | | | | | | | | |
|-----------------------|-------|--------|-------|--------|-------|---------|--------|-------|---------|
| Ammonia-N | mg/kg | <0.43 | 0.43 | <0.45 | 0.45 | 7446423 | <2.1 | 2.1 | 7446423 |
| Chloride (Cl-) | mg/kg | 9.0 | 5.0 | 8.7 | 5.0 | 7445697 | 16 | 5.0 | 7448087 |
| Conductivity | uS/cm | 29 | 1.0 | 74 | 1.0 | 7444093 | 47 | 1.0 | 7448618 |
| Moisture | % | 38 | 1.0 | 39 | 1.0 | 7435465 | 86 | 1.0 | 7435465 |
| Nitrate + Nitrite (N) | mg/kg | <0.25 | 0.25 | 0.33 | 0.25 | 7445714 | 0.40 | 0.25 | 7448092 |
| Nitrite (N) | mg/kg | <0.050 | 0.050 | <0.050 | 0.050 | 7445715 | <0.050 | 0.050 | 7448093 |
| Orthophosphate (P) | mg/kg | <0.050 | 0.050 | 0.070 | 0.050 | 7445711 | <0.050 | 0.050 | 7448091 |
| Soluble (5:1) pH | pH | 5.26 | N/A | 5.16 | N/A | 7444104 | 4.95 | N/A | 7448613 |
| Sulphate (SO4) | mg/kg | <10 | 10 | 66 | 10 | 7445708 | 39 | 10 | 7448090 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



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BV Labs Job #: C1H4101
Report Date: 2021/07/14

GHD Limited
Client Project #: 11222385
Site Location: GOLDBORO
Your P.O. #: TO FOLLOW
Sampler Initials: JV

RESULTS OF ANALYSES OF SOIL

| BV Labs ID | | PXP292 | | | PXP293 | | | PXP293 | | |
|--|-------|---------------------|-------|----------|---------------------|-------|----------|---------------------|------|----------|
| Sampling Date | | 2021/06/15 13:45 | | | 2021/06/15 11:05 | | | 2021/06/15 11:05 | | |
| COC Number | | N/A | | | N/A | | | N/A | | |
| | UNITS | B-36 | RDL | QC Batch | B-37 | RDL | QC Batch | B-37 Lab-Dup | RDL | QC Batch |
| Inorganics | | | | | | | | | | |
| Ammonia-N | mg/kg | 2.6 | 0.40 | 7446423 | <0.33 | 0.33 | 7446423 | | | |
| Chloride (Cl-) | mg/kg | 15 | 5.0 | 7448087 | 5.2 | 5.0 | 7448087 | | | |
| Conductivity | uS/cm | 41 | 1.0 | 7448618 | 29 | 1.0 | 7448618 | | | |
| Total Inorganic Carbon (C) | g/kg | | | | <0.5 | 0.5 | 7430582 | | | |
| Moisture | % | 34 | 1.0 | 7435465 | 22 | 1.0 | 7435465 | | | |
| Nitrate + Nitrite (N) | mg/kg | <0.25 | 0.25 | 7448092 | <0.25 | 0.25 | 7448092 | | | |
| Nitrite (N) | mg/kg | <0.050 | 0.050 | 7448093 | <0.050 | 0.050 | 7448093 | | | |
| Organic Carbon (TOC) | g/kg | 37 | 0.50 | 7440667 | 2.1 | 0.50 | 7440667 | | | |
| Orthophosphate (P) | mg/kg | 0.14 | 0.050 | 7448091 | 3.8 | 0.25 | 7448091 | | | |
| Soluble (5:1) pH | pH | 5.44 | N/A | 7448613 | 4.53 | N/A | 7448613 | | | |
| Sulphate (SO4) | mg/kg | 25 | 10 | 7448090 | 15 | 10 | 7448090 | | | |
| Total Carbon-combustion IR | g/kg | | | | 2.0 | 0.50 | 7448515 | 2.0 | 0.50 | 7448515 |
| < -1 Phi (2 mm) | % | 87 | 0.10 | 7444081 | 100 | 0.10 | 7444081 | | | |
| < 0 Phi (1 mm) | % | 83 | 0.10 | 7444081 | 100 | 0.10 | 7444081 | | | |
| < +1 Phi (0.5 mm) | % | 80 | 0.10 | 7444081 | 99 | 0.10 | 7444081 | | | |
| < +2 Phi (0.25 mm) | % | 74 | 0.10 | 7444081 | 94 | 0.10 | 7444081 | | | |
| < +3 Phi (0.12 mm) | % | 63 | 0.10 | 7444081 | 66 | 0.10 | 7444081 | | | |
| < +4 Phi (0.062 mm) | % | 47 | 0.10 | 7444081 | 32 | 0.10 | 7444081 | | | |
| < +5 Phi (0.031 mm) | % | 33 | 0.10 | 7444081 | 14 | 0.10 | 7444081 | | | |
| < +6 Phi (0.016 mm) | % | 22 | 0.10 | 7444081 | 4.6 | 0.10 | 7444081 | | | |
| < +7 Phi (0.0078 mm) | % | 13 | 0.10 | 7444081 | 1.1 | 0.10 | 7444081 | | | |
| < +8 Phi (0.0039 mm) | % | 9.8 | 0.10 | 7444081 | 0.49 | 0.10 | 7444081 | | | |
| < +9 Phi (0.0020 mm) | % | 6.8 | 0.10 | 7444081 | 0.53 | 0.10 | 7444081 | | | |
| Gravel | % | 13 | 0.10 | 7444081 | <0.10 | 0.10 | 7444081 | | | |
| Sand | % | 40 | 0.10 | 7444081 | 68 | 0.10 | 7444081 | | | |
| Silt | % | 37 | 0.10 | 7444081 | 32 | 0.10 | 7444081 | | | |
| Clay | % | 9.8 | 0.10 | 7444081 | 0.49 | 0.10 | 7444081 | | | |
| Subcontracted Analysis | | | | | | | | | | |
| Subcontract Parameter | N/A | ATTACHED | N/A | 7454407 | ATTACHED | N/A | 7454407 | | | |
| RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable | | | | | | | | | | |



BV Labs Job #: C1H4101
 Report Date: 2021/07/14

GHD Limited
 Client Project #: 11222385
 Site Location: GOLDBORO
 Your P.O. #: TO FOLLOW
 Sampler Initials: JV

RESULTS OF ANALYSES OF SOIL

| | | | | | | | | | | |
|----------------------|--------------|---------------------|------------|-----------------|-------------------------|------------|-----------------|---------------------|------------|-----------------|
| BV Labs ID | | PXP294 | | | PXP294 | | | PXP295 | | |
| Sampling Date | | 2021/06/15 12:00 | | | 2021/06/15 12:00 | | | 2021/06/15 10:15 | | |
| COC Number | | N/A | | | N/A | | | N/A | | |
| | UNITS | B-38 | RDL | QC Batch | B-38 Lab-Dup | RDL | QC Batch | B-40 | RDL | QC Batch |

| Inorganics | | | | | | | | | | |
|----------------------------|-------|--------|-------|---------|----|------|---------|--------|-------|---------|
| Ammonia-N | mg/kg | 2.2 | 0.92 | 7446423 | | | | <0.32 | 0.32 | 7446423 |
| Chloride (Cl-) | mg/kg | 23 | 5.0 | 7448087 | | | | 7.4 | 5.0 | 7445697 |
| Conductivity | uS/cm | 71 | 1.0 | 7448618 | | | | 21 | 1.0 | 7444093 |
| Total Inorganic Carbon (C) | g/kg | <0.5 | 0.5 | 7430582 | | | | | | |
| Moisture | % | 69 | 1.0 | 7436182 | | | | 20 | 1.0 | 7436182 |
| Nitrate + Nitrite (N) | mg/kg | <0.25 | 0.25 | 7448092 | | | | <0.25 | 0.25 | 7445714 |
| Nitrite (N) | mg/kg | <0.050 | 0.050 | 7448093 | | | | <0.050 | 0.050 | 7445715 |
| Organic Carbon (TOC) | g/kg | 89 | 0.50 | 7448009 | 89 | 0.50 | 7448009 | | | |
| Orthophosphate (P) | mg/kg | 0.25 | 0.050 | 7448091 | | | | 2.4 | 0.25 | 7445711 |
| Soluble (5:1) pH | pH | 5.63 | N/A | 7448613 | | | | 5.00 | N/A | 7444104 |
| Sulphate (SO4) | mg/kg | 41 | 10 | 7448090 | | | | <10 | 10 | 7445708 |
| Total Carbon-combustion IR | g/kg | 86 | 0.50 | 7448515 | | | | | | |

| Subcontracted Analysis | | | | | | | | | | |
|-------------------------------|-----|----------|-----|---------|--|--|--|--|--|--|
| Subcontract Parameter | N/A | ATTACHED | N/A | 7454387 | | | | | | |

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Lab-Dup = Laboratory Initiated Duplicate
 N/A = Not Applicable



BV Labs Job #: C1H4101
 Report Date: 2021/07/14

GHD Limited
 Client Project #: 11222385
 Site Location: GOLDBORO
 Your P.O. #: TO FOLLOW
 Sampler Initials: JV

RESULTS OF ANALYSES OF SOIL

| BV Labs ID | | PXP295 | | | PXP296 | | | PXP301 | | |
|--|-------|---------------------|-------|----------|---------------------|-------|----------|---------------------|-------|----------|
| Sampling Date | | 2021/06/15 10:15 | | | 2021/06/15 15:45 | | | 2021/06/15 15:10 | | |
| COC Number | | N/A | | | N/A | | | N/A | | |
| | UNITS | B-40 Lab-Dup | RDL | QC Batch | B-46 | RDL | QC Batch | B-47 | RDL | QC Batch |
| Inorganics | | | | | | | | | | |
| Ammonia-N | mg/kg | | | | <0.71 | 0.71 | 7446423 | <0.28 | 0.28 | 7446423 |
| Chloride (Cl-) | mg/kg | 9.5 | 5.0 | 7445697 | 220 | 5.0 | 7448087 | 7.9 | 5.0 | 7448087 |
| Conductivity | uS/cm | 21 | 1.0 | 7444093 | 300 | 1.0 | 7448618 | 28 | 1.0 | 7448618 |
| Moisture | % | 21 | 1.0 | 7436182 | 60 | 1.0 | 7436182 | 10 | 1.0 | 7441029 |
| Nitrate + Nitrite (N) | mg/kg | <0.25 | 0.25 | 7445714 | 0.33 | 0.25 | 7448092 | 0.29 | 0.25 | 7448092 |
| Nitrite (N) | mg/kg | <0.050 | 0.050 | 7445715 | <0.050 | 0.050 | 7448093 | <0.050 | 0.050 | 7448093 |
| Orthophosphate (P) | mg/kg | 2.3 | 0.25 | 7445711 | 66 | 6.0 | 7448091 | 0.36 (1) | 0.050 | 7448091 |
| Soluble (5:1) pH | pH | 4.91 | N/A | 7444104 | 3.75 (2) | N/A | 7448613 | 5.52 | N/A | 7448613 |
| Sulphate (SO4) | mg/kg | <10 | 10 | 7445708 | <10 | 10 | 7448090 | <10 | 10 | 7448090 |
| RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable (1) Poor duplicate agreement due to sample inhomogeneity, results confirmed by repeat analysis. (2) pH value is beyond linear range, extended linearity has been confirmed. | | | | | | | | | | |



BV Labs Job #: C1H4101
Report Date: 2021/07/14

GHD Limited
Client Project #: 11222385
Site Location: GOLDBORO
Your P.O. #: TO FOLLOW
Sampler Initials: JV

RESULTS OF ANALYSES OF SOIL

| BV Labs ID | | PXP301 | | | PXP302 | | PXP303 | | PXP304 | | |
|---------------|-------|-------------------------|-----|----------|---------------------|-----|---------------------|-----|---------------------|-----|----------|
| Sampling Date | | 2021/06/15 15:10 | | | 2021/06/15 13:05 | | 2021/06/15 16:30 | | 2021/06/15 12:40 | | |
| COC Number | | N/A | | | N/A | | N/A | | N/A | | |
| | UNITS | B-47 Lab-Dup | RDL | QC Batch | B-56 | RDL | B-63 | RDL | B-67 | RDL | QC Batch |

| Inorganics | | | | | | | | | | | |
|-----------------------|-------|----------|-------|---------|--------|-------|--------|-------|--------|-------|---------|
| Ammonia-N | mg/kg | | | | <0.29 | 0.29 | <0.31 | 0.31 | <0.37 | 0.37 | 7446574 |
| Chloride (Cl-) | mg/kg | 8.3 | 5.0 | 7448087 | 11 | 5.0 | 10 | 5.0 | 17 | 5.0 | 7448087 |
| Conductivity | uS/cm | 34 | 1.0 | 7448618 | 31 | 1.0 | 34 | 1.0 | 48 | 1.0 | 7448618 |
| Moisture | % | | | | 11 | 1.0 | 16 | 1.0 | 28 | 1.0 | 7441029 |
| Nitrate + Nitrite (N) | mg/kg | 0.27 | 0.25 | 7448092 | <0.25 | 0.25 | 0.52 | 0.25 | 0.72 | 0.25 | 7448092 |
| Nitrite (N) | mg/kg | <0.050 | 0.050 | 7448093 | <0.050 | 0.050 | <0.050 | 0.050 | <0.050 | 0.050 | 7448093 |
| Orthophosphate (P) | mg/kg | 0.68 (1) | 0.050 | 7448091 | 0.22 | 0.050 | 0.13 | 0.050 | <0.050 | 0.050 | 7448091 |
| Soluble (5:1) pH | pH | 5.39 | N/A | 7448613 | 5.18 | N/A | 5.26 | N/A | 4.94 | N/A | 7448613 |
| Sulphate (SO4) | mg/kg | <10 | 10 | 7448090 | <10 | 10 | <10 | 10 | <10 | 10 | 7448090 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable
(1) Poor duplicate agreement due to sample inhomogeneity, results confirmed by repeat analysis.

| BV Labs ID | | PXP305 | | PXP306 | | PXP307 | | PXP308 | | |
|---------------|-------|---------------------|-----|---------------------|-----|---------------------|-----|---------------------|-----|----------|
| Sampling Date | | 2021/06/16 15:20 | | 2021/06/16 09:50 | | 2021/06/16 11:10 | | 2021/06/16 09:10 | | |
| COC Number | | N/A | | N/A | | N/A | | N/A | | |
| | UNITS | B-69 | RDL | C-1 | RDL | C-03 | RDL | C-07 | RDL | QC Batch |

| Inorganics | | | | | | | | | | | |
|-----------------------|-------|--------|-------|--------|-------|--------|-------|--------|-------|---------|--|
| Ammonia-N | mg/kg | <0.64 | 0.64 | 0.86 | 0.56 | 0.61 | 0.37 | <0.34 | 0.34 | 7446574 | |
| Chloride (Cl-) | mg/kg | 29 | 5.0 | 46 | 5.0 | 8.5 | 5.0 | 8.1 | 5.0 | 7448087 | |
| Conductivity | uS/cm | 81 | 1.0 | 66 | 1.0 | 33 | 1.0 | 22 | 1.0 | 7448618 | |
| Moisture | % | 57 | 1.0 | 50 | 1.0 | 27 | 1.0 | 23 | 1.0 | 7441029 | |
| Nitrate + Nitrite (N) | mg/kg | 1.2 | 0.25 | 0.65 | 0.25 | 0.60 | 0.25 | <0.25 | 0.25 | 7448092 | |
| Nitrite (N) | mg/kg | <0.050 | 0.050 | 0.053 | 0.050 | <0.050 | 0.050 | <0.050 | 0.050 | 7448093 | |
| Orthophosphate (P) | mg/kg | 0.23 | 0.050 | <0.050 | 0.050 | 0.074 | 0.050 | 0.24 | 0.050 | 7448091 | |
| Soluble (5:1) pH | pH | 4.89 | N/A | 4.87 | N/A | 4.62 | N/A | 5.38 | N/A | 7448613 | |
| Sulphate (SO4) | mg/kg | 10 | 10 | <10 | 10 | <10 | 10 | <10 | 10 | 7448090 | |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable



BV Labs Job #: C1H4101
 Report Date: 2021/07/14

GHD Limited
 Client Project #: 11222385
 Site Location: GOLDBORO
 Your P.O. #: TO FOLLOW
 Sampler Initials: JV

RESULTS OF ANALYSES OF SOIL

| BV Labs ID | | PXP308 | | | PXP309 | | PXP310 | | |
|--|-------|---------------------|------|----------|---------------------|-------|---------------------|-------|----------|
| Sampling Date | | 2021/06/16 09:10 | | | 2021/06/16 10:25 | | 2021/06/16 08:40 | | |
| COC Number | | N/A | | | N/A | | N/A | | |
| | UNITS | C-07 Lab-Dup | RDL | QC Batch | C-13 | RDL | C-18 | RDL | QC Batch |
| Inorganics | | | | | | | | | |
| Ammonia-N | mg/kg | <0.34 | 0.34 | 7446574 | <0.33 | 0.33 | 0.99 | 0.54 | 7446574 |
| Chloride (Cl-) | mg/kg | | | | 12 | 5.0 | 23 | 5.0 | 7448087 |
| Conductivity | uS/cm | | | | 58 | 1.0 | 66 | 1.0 | 7448618 |
| Moisture | % | | | | 22 | 1.0 | 48 | 1.0 | 7441029 |
| Nitrate + Nitrite (N) | mg/kg | | | | 0.30 | 0.25 | 0.51 | 0.25 | 7448092 |
| Nitrite (N) | mg/kg | | | | <0.050 | 0.050 | <0.050 | 0.050 | 7448093 |
| Organic Carbon (TOC) | g/kg | | | | 3.5 | 0.50 | 25 | 0.50 | 7448009 |
| Orthophosphate (P) | mg/kg | | | | 0.32 | 0.050 | 0.12 | 0.050 | 7448091 |
| Soluble (5:1) pH | pH | | | | 5.19 | N/A | 4.78 | N/A | 7448613 |
| Sulphate (SO4) | mg/kg | | | | 63 | 10 | 16 | 10 | 7448090 |
| < -1 Phi (2 mm) | % | | | | 100 | 0.10 | 81 | 0.10 | 7444081 |
| < 0 Phi (1 mm) | % | | | | 100 | 0.10 | 67 | 0.10 | 7444081 |
| < +1 Phi (0.5 mm) | % | | | | 100 | 0.10 | 50 | 0.10 | 7444081 |
| < +2 Phi (0.25 mm) | % | | | | 95 | 0.10 | 33 | 0.10 | 7444081 |
| < +3 Phi (0.12 mm) | % | | | | 89 | 0.10 | 21 | 0.10 | 7444081 |
| < +4 Phi (0.062 mm) | % | | | | 79 | 0.10 | 15 | 0.10 | 7444081 |
| < +5 Phi (0.031 mm) | % | | | | 67 | 0.10 | 11 | 0.10 | 7444081 |
| < +6 Phi (0.016 mm) | % | | | | 41 | 0.10 | 8.3 | 0.10 | 7444081 |
| < +7 Phi (0.0078 mm) | % | | | | 11 | 0.10 | 5.7 | 0.10 | 7444081 |
| < +8 Phi (0.0039 mm) | % | | | | 6.4 | 0.10 | 4.9 | 0.10 | 7444081 |
| < +9 Phi (0.0020 mm) | % | | | | 2.6 | 0.10 | 3.8 | 0.10 | 7444081 |
| Gravel | % | | | | <0.10 | 0.10 | 19 | 0.10 | 7444081 |
| Sand | % | | | | 21 | 0.10 | 66 | 0.10 | 7444081 |
| Silt | % | | | | 73 | 0.10 | 9.9 | 0.10 | 7444081 |
| Clay | % | | | | 6.4 | 0.10 | 4.9 | 0.10 | 7444081 |
| Subcontracted Analysis | | | | | | | | | |
| Subcontract Parameter | N/A | | | | ATTACHED | N/A | ATTACHED | N/A | 7454407 |
| RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable | | | | | | | | | |



BV Labs Job #: C1H4101
 Report Date: 2021/07/14

GHD Limited
 Client Project #: 11222385
 Site Location: GOLDBORO
 Your P.O. #: TO FOLLOW
 Sampler Initials: JV

RESULTS OF ANALYSES OF SOIL

| BV Labs ID | | PXP311 | | PXP312 | | | PXP313 | | |
|--|-------|---------------------|-------|---------------------|-------|----------|---------------------|-------|----------|
| Sampling Date | | 2021/06/16 12:00 | | 2021/06/16 10:30 | | | 2021/06/16 11:00 | | |
| COC Number | | | | | | | | | |
| | UNITS | C-22 | RDL | D-02 | RDL | QC Batch | D-07 | RDL | QC Batch |
| Inorganics | | | | | | | | | |
| Ammonia-N | mg/kg | <0.38 | 0.38 | <0.34 | 0.34 | 7446574 | <0.33 | 0.33 | 7446574 |
| Chloride (Cl-) | mg/kg | 8.9 | 5.0 | 6.7 | 5.0 | 7448087 | <5.0 | 5.0 | 7448087 |
| Conductivity | uS/cm | 35 | 1.0 | 21 | 1.0 | 7448618 | 16 | 1.0 | 7448618 |
| Total Inorganic Carbon (C) | g/kg | | | | | | <0.5 | 0.5 | 7430582 |
| Moisture | % | 30 | 1.0 | 24 | 1.0 | 7441029 | 20 | 1.0 | 7441029 |
| Nitrate + Nitrite (N) | mg/kg | 0.29 | 0.25 | 0.32 | 0.25 | 7448092 | <0.25 | 0.25 | 7448092 |
| Nitrite (N) | mg/kg | <0.050 | 0.050 | <0.050 | 0.050 | 7448093 | <0.050 | 0.050 | 7448093 |
| Organic Carbon (TOC) | g/kg | | | | | | 1.7 | 0.50 | 7448009 |
| Orthophosphate (P) | mg/kg | 5.8 | 0.25 | 4.2 | 0.25 | 7448091 | 9.0 | 0.25 | 7448091 |
| Soluble (5:1) pH | pH | 4.51 | N/A | 5.34 | N/A | 7448613 | 4.93 | N/A | 7448613 |
| Sulphate (SO4) | mg/kg | <10 | 10 | <10 | 10 | 7448090 | <10 | 10 | 7448090 |
| Total Carbon-combustion IR | g/kg | | | | | | 1.6 | 0.50 | 7448515 |
| < -1 Phi (2 mm) | % | | | | | | 100 | 0.10 | 7444081 |
| < 0 Phi (1 mm) | % | | | | | | 100 | 0.10 | 7444081 |
| < +1 Phi (0.5 mm) | % | | | | | | 98 | 0.10 | 7444081 |
| < +2 Phi (0.25 mm) | % | | | | | | 74 | 0.10 | 7444081 |
| < +3 Phi (0.12 mm) | % | | | | | | 36 | 0.10 | 7444081 |
| < +4 Phi (0.062 mm) | % | | | | | | 13 | 0.10 | 7444081 |
| < +5 Phi (0.031 mm) | % | | | | | | 6.4 | 0.10 | 7444081 |
| < +6 Phi (0.016 mm) | % | | | | | | 4.2 | 0.10 | 7444081 |
| < +7 Phi (0.0078 mm) | % | | | | | | 1.5 | 0.10 | 7444081 |
| < +8 Phi (0.0039 mm) | % | | | | | | 0.98 | 0.10 | 7444081 |
| < +9 Phi (0.0020 mm) | % | | | | | | 0.72 | 0.10 | 7444081 |
| Gravel | % | | | | | | <0.10 | 0.10 | 7444081 |
| Sand | % | | | | | | 87 | 0.10 | 7444081 |
| Silt | % | | | | | | 12 | 0.10 | 7444081 |
| Clay | % | | | | | | 0.98 | 0.10 | 7444081 |
| Subcontracted Analysis | | | | | | | | | |
| Subcontract Parameter | N/A | | | | | | ATTACHED | N/A | 7454407 |
| RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable | | | | | | | | | |



BV Labs Job #: C1H4101
 Report Date: 2021/07/14

GHD Limited
 Client Project #: 11222385
 Site Location: GOLDBORO
 Your P.O. #: TO FOLLOW
 Sampler Initials: JV

RESULTS OF ANALYSES OF SOIL

| BV Labs ID | | PXP314 | | PXP315 | | | PXP316 | | PXP317 | | |
|---------------|-------|---------------------|-----|---------------------|-----|----------|---------------------|-----|---------------------|-----|----------|
| Sampling Date | | 2021/06/16 14:35 | | 2021/06/16 13:45 | | | 2021/06/16 13:20 | | 2021/06/16 11:25 | | |
| COC Number | | | | | | | | | | | |
| | UNITS | D-08 | RDL | D-09 | RDL | QC Batch | D-12 | RDL | D-19 | RDL | QC Batch |

| Inorganics | | | | | | | | | | | |
|-----------------------|-------|--------|-------|--------|-------|---------|----------|-------|--------|-------|---------|
| Ammonia-N | mg/kg | <0.39 | 0.39 | <0.41 | 0.41 | 7446574 | 5.0 | 3.0 | <0.35 | 0.35 | 7446574 |
| Chloride (Cl-) | mg/kg | 20 | 5.0 | 15 | 5.0 | 7448087 | 85 | 5.0 | 8.8 | 5.0 | 7448080 |
| Conductivity | uS/cm | 55 | 1.0 | 47 | 1.0 | 7448618 | 210 | 1.0 | 28 | 1.0 | 7448671 |
| Moisture | % | 31 | 1.0 | 35 | 1.0 | 7441029 | 90 | 1.0 | 23 | 1.0 | 7441029 |
| Nitrate + Nitrite (N) | mg/kg | 0.36 | 0.25 | 0.98 | 0.25 | 7448092 | 0.52 | 0.25 | 0.26 | 0.25 | 7448084 |
| Nitrite (N) | mg/kg | <0.050 | 0.050 | <0.050 | 0.050 | 7448093 | <0.050 | 0.050 | <0.050 | 0.050 | 7448085 |
| Orthophosphate (P) | mg/kg | 0.25 | 0.050 | <0.050 | 0.050 | 7448091 | 4.3 | 0.25 | 0.42 | 0.050 | 7448083 |
| Soluble (5:1) pH | pH | 4.41 | N/A | 5.02 | N/A | 7448613 | 3.95 (1) | N/A | 5.21 | N/A | 7448651 |
| Sulphate (SO4) | mg/kg | <10 | 10 | <10 | 10 | 7448090 | 46 | 10 | <10 | 10 | 7448082 |

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 N/A = Not Applicable
 (1) pH value is beyond linear range, extended linearity has been confirmed.



RESULTS OF ANALYSES OF SOIL

| BV Labs ID | | PXP318 | | | PXP319 | | | PXP320 | | |
|--|-------|---------------------|-------|----------|---------------------|-------|----------|---------------------|-------|----------|
| Sampling Date | | 2021/06/16 16:35 | | | 2021/06/16 16:20 | | | 2021/06/16 11:45 | | |
| COC Number | | | | | | | | | | |
| | UNITS | D-21 | RDL | QC Batch | D-22 | RDL | QC Batch | D-34 | RDL | QC Batch |
| Inorganics | | | | | | | | | | |
| Ammonia-N | mg/kg | 0.43 | 0.33 | 7446574 | 4.8 | 1.7 | 7446574 | <0.37 | 0.37 | 7446574 |
| Chloride (Cl-) | mg/kg | 9.1 | 5.0 | 7448080 | 50 | 5.0 | 7448080 | 13 | 5.0 | 7448080 |
| Conductivity | uS/cm | 49 | 1.0 | 7448671 | 230 | 1.0 | 7448671 | 53 | 1.0 | 7448671 |
| Total Inorganic Carbon (C) | g/kg | | | | <1 | 1 | 7430582 | | | |
| Moisture | % | 22 | 1.0 | 7441029 | 83 | 1.0 | 7441029 | 29 | 1.0 | 7441351 |
| Nitrate + Nitrite (N) | mg/kg | <0.25 | 0.25 | 7448084 | 1.0 | 0.25 | 7448084 | 0.49 | 0.25 | 7448084 |
| Nitrite (N) | mg/kg | <0.050 | 0.050 | 7448085 | <0.050 | 0.050 | 7448085 | <0.050 | 0.050 | 7448085 |
| Organic Carbon (TOC) | g/kg | | | | 460 | 1.3 | 7448009 | | | |
| Orthophosphate (P) | mg/kg | 0.28 | 0.050 | 7448083 | 0.20 | 0.050 | 7448083 | 0.059 | 0.050 | 7448083 |
| Soluble (5:1) pH | pH | 5.13 | N/A | 7448651 | 4.30 | N/A | 7448651 | 4.72 | N/A | 7448651 |
| Sulphate (SO4) | mg/kg | 37 | 10 | 7448082 | 170 | 10 | 7448082 | <10 | 10 | 7448082 |
| Total Carbon-combustion IR | g/kg | | | | 460 | 1.3 | 7448515 | | | |
| < -1 Phi (2 mm) | % | | | | 99 | 0.10 | 7444081 | | | |
| < 0 Phi (1 mm) | % | | | | 96 | 0.10 | 7444081 | | | |
| < +1 Phi (0.5 mm) | % | | | | 91 | 0.10 | 7444081 | | | |
| < +2 Phi (0.25 mm) | % | | | | 86 | 0.10 | 7444081 | | | |
| < +3 Phi (0.12 mm) | % | | | | 83 | 0.10 | 7444081 | | | |
| < +4 Phi (0.062 mm) | % | | | | 81 | 0.10 | 7444081 | | | |
| < +5 Phi (0.031 mm) | % | | | | 79 | 0.10 | 7444081 | | | |
| < +6 Phi (0.016 mm) | % | | | | 76 | 0.10 | 7444081 | | | |
| < +7 Phi (0.0078 mm) | % | | | | 70 | 0.10 | 7444081 | | | |
| < +8 Phi (0.0039 mm) | % | | | | 65 | 0.10 | 7444081 | | | |
| < +9 Phi (0.0020 mm) | % | | | | 60 | 0.10 | 7444081 | | | |
| Gravel | % | | | | 0.73 | 0.10 | 7444081 | | | |
| Sand | % | | | | 18 | 0.10 | 7444081 | | | |
| Silt | % | | | | 16 | 0.10 | 7444081 | | | |
| Clay | % | | | | 65 | 0.10 | 7444081 | | | |
| Subcontracted Analysis | | | | | | | | | | |
| Subcontract Parameter | N/A | | | | ATTACHED | N/A | 7454407 | | | |
| RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable | | | | | | | | | | |



BV Labs Job #: C1H4101
 Report Date: 2021/07/14

GHD Limited
 Client Project #: 11222385
 Site Location: GOLDBORO
 Your P.O. #: TO FOLLOW
 Sampler Initials: JV

RESULTS OF ANALYSES OF SOIL

| BV Labs ID | | PXP320 | | | PXP334 | | | PXP334 | | |
|--|-------|---------------------|-----|----------|---------------------|-------|----------|---------------------|-----|----------|
| Sampling Date | | 2021/06/16 11:45 | | | 2021/06/16 16:11 | | | 2021/06/16 16:11 | | |
| COC Number | | | | | N/A | | | N/A | | |
| | UNITS | D-34 Lab-Dup | RDL | QC Batch | E-05 | RDL | QC Batch | E-05 Lab-Dup | RDL | QC Batch |
| Inorganics | | | | | | | | | | |
| Ammonia-N | mg/kg | | | | <0.40 | 0.40 | 7446574 | | | |
| Chloride (Cl-) | mg/kg | | | | 7.0 | 5.0 | 7448080 | | | |
| Conductivity | uS/cm | | | | 29 | 1.0 | 7448671 | | | |
| Moisture | % | 27 | 1.0 | 7441351 | 33 | 1.0 | 7440816 | 32 | 1.0 | 7440816 |
| Nitrate + Nitrite (N) | mg/kg | | | | <0.25 | 0.25 | 7448084 | | | |
| Nitrite (N) | mg/kg | | | | <0.050 | 0.050 | 7448085 | | | |
| Orthophosphate (P) | mg/kg | | | | 0.081 | 0.050 | 7448083 | | | |
| Soluble (5:1) pH | pH | | | | 4.85 | N/A | 7448651 | | | |
| Sulphate (SO4) | mg/kg | | | | <10 | 10 | 7448082 | | | |
| RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable | | | | | | | | | | |



BUREAU
VERITAS

BV Labs Job #: C1H4101
Report Date: 2021/07/14

GHD Limited
Client Project #: 11222385
Site Location: GOLDBORO
Your P.O. #: TO FOLLOW
Sampler Initials: JV

RESULTS OF ANALYSES OF SOIL

| BV Labs ID | | PXP335 | | PXP336 | | PXP337 | | | PXP338 | | |
|--|-------|---------------------|-------|---------------------|-------|---------------------|-------|----------|---------------------|-------|----------|
| Sampling Date | | 2021/06/16 15:15 | | 2021/06/17 08:35 | | 2021/06/17 09:15 | | | 2021/06/16 14:15 | | |
| COC Number | | N/A | | N/A | | N/A | | | N/A | | |
| | UNITS | E-08 | RDL | E-11 | RDL | E-22 | RDL | QC Batch | E-31 | RDL | QC Batch |
| Inorganics | | | | | | | | | | | |
| Ammonia-N | mg/kg | <0.41 | 0.41 | <0.33 | 0.33 | 0.68 | 0.39 | 7446594 | <0.33 | 0.33 | 7446594 |
| Chloride (Cl-) | mg/kg | 13 | 5.0 | <5.0 | 5.0 | 11 | 5.0 | 7448080 | 6.3 | 5.0 | 7448080 |
| Conductivity | uS/cm | 33 | 1.0 | 14 | 1.0 | 46 | 1.0 | 7448671 | 23 | 1.0 | 7448671 |
| Moisture | % | 35 | 1.0 | 22 | 1.0 | 32 | 1.0 | 7440816 | 21 | 1.0 | 7440816 |
| Nitrate + Nitrite (N) | mg/kg | 0.38 | 0.25 | <0.25 | 0.25 | 0.26 | 0.25 | 7448084 | <0.25 | 0.25 | 7448084 |
| Nitrite (N) | mg/kg | <0.050 | 0.050 | <0.050 | 0.050 | <0.050 | 0.050 | 7448085 | <0.050 | 0.050 | 7448085 |
| Organic Carbon (TOC) | g/kg | | | | | | | | 3.8 | 0.50 | 7445432 |
| Orthophosphate (P) | mg/kg | 0.064 | 0.050 | 1.8 | 0.25 | 11 | 1.0 | 7448083 | 0.69 | 0.050 | 7448083 |
| Soluble (5:1) pH | pH | 4.72 | N/A | 5.05 | N/A | 4.22 | N/A | 7448651 | 5.50 | N/A | 7448651 |
| Sulphate (SO4) | mg/kg | <10 | 10 | <10 | 10 | <10 | 10 | 7448082 | 18 | 10 | 7448082 |
| < -1 Phi (2 mm) | % | | | | | | | | 100 | 0.10 | 7444081 |
| < 0 Phi (1 mm) | % | | | | | | | | 100 | 0.10 | 7444081 |
| < +1 Phi (0.5 mm) | % | | | | | | | | 99 | 0.10 | 7444081 |
| < +2 Phi (0.25 mm) | % | | | | | | | | 90 | 0.10 | 7444081 |
| < +3 Phi (0.12 mm) | % | | | | | | | | 67 | 0.10 | 7444081 |
| < +4 Phi (0.062 mm) | % | | | | | | | | 42 | 0.10 | 7444081 |
| < +5 Phi (0.031 mm) | % | | | | | | | | 24 | 0.10 | 7444081 |
| < +6 Phi (0.016 mm) | % | | | | | | | | 10 | 0.10 | 7444081 |
| < +7 Phi (0.0078 mm) | % | | | | | | | | 2.8 | 0.10 | 7444081 |
| < +8 Phi (0.0039 mm) | % | | | | | | | | 1.8 | 0.10 | 7444081 |
| < +9 Phi (0.0020 mm) | % | | | | | | | | 0.84 | 0.10 | 7444081 |
| Gravel | % | | | | | | | | <0.10 | 0.10 | 7444081 |
| Sand | % | | | | | | | | 58 | 0.10 | 7444081 |
| Silt | % | | | | | | | | 41 | 0.10 | 7444081 |
| Clay | % | | | | | | | | 1.8 | 0.10 | 7444081 |
| Subcontracted Analysis | | | | | | | | | | | |
| Subcontract Parameter | N/A | | | | | | | | ATTACHED | N/A | 7454407 |
| RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable | | | | | | | | | | | |



BV Labs Job #: C1H4101
 Report Date: 2021/07/14

GHD Limited
 Client Project #: 11222385
 Site Location: GOLDBORO
 Your P.O. #: TO FOLLOW
 Sampler Initials: JV

RESULTS OF ANALYSES OF SOIL

| BV Labs ID | | PXP339 | | | PXP340 | | | PXP340 | | |
|---------------|-------|---------------------|-----|----------|---------------------|-----|----------|---------------------|-----|----------|
| Sampling Date | | 2021/06/17 08:55 | | | 2021/06/17 09:15 | | | 2021/06/17 09:15 | | |
| COC Number | | N/A | | | N/A | | | N/A | | |
| | UNITS | E-33 | RDL | QC Batch | E-35 | RDL | QC Batch | E-35 Lab-Dup | RDL | QC Batch |

| Inorganics | | | | | | | | | | |
|----------------------------|-------|--------|-------|---------|--------|-------|---------|--------|-------|---------|
| Ammonia-N | mg/kg | 1.8 | 0.41 | 7446594 | <0.41 | 0.41 | 7446594 | | | |
| Chloride (Cl-) | mg/kg | 17 | 5.0 | 7448080 | 10 | 5.0 | 7448080 | 11 | 5.0 | 7448080 |
| Conductivity | uS/cm | 43 | 1.0 | 7448671 | 47 | 1.0 | 7448671 | 50 | 1.0 | 7448671 |
| Total Inorganic Carbon (C) | g/kg | | | | <0.5 | 0.5 | 7430582 | | | |
| Moisture | % | 35 | 1.0 | 7440816 | 34 | 1.0 | 7440816 | | | |
| Nitrate + Nitrite (N) | mg/kg | 0.77 | 0.25 | 7448084 | 0.41 | 0.25 | 7448084 | 0.42 | 0.25 | 7448084 |
| Nitrite (N) | mg/kg | <0.050 | 0.050 | 7448085 | <0.050 | 0.050 | 7448085 | <0.050 | 0.050 | 7448085 |
| Organic Carbon (TOC) | g/kg | | | | 16 | 0.50 | 7445432 | | | |
| Orthophosphate (P) | mg/kg | 0.051 | 0.050 | 7448083 | 9.5 | 0.25 | 7448083 | 9.2 | 0.25 | 7448083 |
| Soluble (5:1) pH | pH | 4.70 | N/A | 7448651 | 4.42 | N/A | 7448651 | 4.41 | N/A | 7448651 |
| Sulphate (SO4) | mg/kg | <10 | 10 | 7448082 | 24 | 10 | 7448082 | 24 | 10 | 7448082 |
| Total Carbon-combustion IR | g/kg | | | | 13 | 0.50 | 7448515 | | | |
| < -1 Phi (2 mm) | % | | | | 98 (1) | 0.10 | 7444081 | | | |
| < 0 Phi (1 mm) | % | | | | 96 (1) | 0.10 | 7444081 | | | |
| < +1 Phi (0.5 mm) | % | | | | 92 (1) | 0.10 | 7444081 | | | |
| < +2 Phi (0.25 mm) | % | | | | 79 | 0.10 | 7444081 | | | |
| < +3 Phi (0.12 mm) | % | | | | 51 | 0.10 | 7444081 | | | |
| < +4 Phi (0.062 mm) | % | | | | 34 | 0.10 | 7444081 | | | |
| < +5 Phi (0.031 mm) | % | | | | 27 | 0.10 | 7444081 | | | |
| < +6 Phi (0.016 mm) | % | | | | 21 | 0.10 | 7444081 | | | |
| < +7 Phi (0.0078 mm) | % | | | | 14 | 0.10 | 7444081 | | | |
| < +8 Phi (0.0039 mm) | % | | | | 11 | 0.10 | 7444081 | | | |
| < +9 Phi (0.0020 mm) | % | | | | 7.2 | 0.10 | 7444081 | | | |
| Gravel | % | | | | 1.7 | 0.10 | 7444081 | | | |
| Sand | % | | | | 65 | 0.10 | 7444081 | | | |
| Silt | % | | | | 23 | 0.10 | 7444081 | | | |
| Clay | % | | | | 11 | 0.10 | 7444081 | | | |

| Subcontracted Analysis | | | | | | | | | | |
|-------------------------------|-----|--|--|--|----------|-----|---------|--|--|--|
| Subcontract Parameter | N/A | | | | ATTACHED | N/A | 7454407 | | | |

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Lab-Dup = Laboratory Initiated Duplicate
 N/A = Not Applicable
 (1) PSA sample observation comment: Fraction contained organic matter



BV Labs Job #: C1H4101
 Report Date: 2021/07/14

GHD Limited
 Client Project #: 11222385
 Site Location: GOLDBORO
 Your P.O. #: TO FOLLOW
 Sampler Initials: JV

RESULTS OF ANALYSES OF SOIL

| | | | | | | | | | | |
|----------------------|--------------|---------------------|------------|-----------------|-------------------------|------------|-----------------|---------------------|------------|-----------------|
| BV Labs ID | | PXP341 | | | PXP341 | | | PXP342 | | |
| Sampling Date | | 2021/06/17 10:05 | | | 2021/06/17 10:05 | | | 2021/06/16 13:30 | | |
| COC Number | | N/A | | | N/A | | | N/A | | |
| | UNITS | E-40 | RDL | QC Batch | E-40 Lab-Dup | RDL | QC Batch | E-45 | RDL | QC Batch |

| Inorganics | | | | | | | | | | |
|-----------------------|-------|--------|-------|---------|-------|------|---------|--------|-------|---------|
| Ammonia-N | mg/kg | <0.45 | 0.45 | 7446594 | <0.45 | 0.45 | 7446594 | 11 | 2.3 | 7446594 |
| Chloride (Cl-) | mg/kg | 17 | 5.0 | 7448080 | | | | 70 | 5.0 | 7448080 |
| Conductivity | uS/cm | 80 | 1.0 | 7448671 | | | | 290 | 1.0 | 7448671 |
| Moisture | % | 40 | 1.0 | 7440816 | | | | 87 | 1.0 | 7440816 |
| Nitrate + Nitrite (N) | mg/kg | 0.27 | 0.25 | 7448084 | | | | 0.38 | 0.25 | 7448084 |
| Nitrite (N) | mg/kg | <0.050 | 0.050 | 7448085 | | | | <0.050 | 0.050 | 7448085 |
| Organic Carbon (TOC) | g/kg | | | | | | | 520 | 1.3 | 7448009 |
| Orthophosphate (P) | mg/kg | 3.2 | 0.25 | 7448083 | | | | 1.3 | 0.050 | 7448083 |
| Soluble (5:1) pH | pH | 4.31 | N/A | 7448651 | | | | 4.36 | N/A | 7448651 |
| Sulphate (SO4) | mg/kg | <10 | 10 | 7448082 | | | | 220 | 10 | 7448082 |
| < -1 Phi (2 mm) | % | | | | | | | 99 | 0.10 | 7444081 |
| < 0 Phi (1 mm) | % | | | | | | | 90 | 0.10 | 7444081 |
| < +1 Phi (0.5 mm) | % | | | | | | | 82 | 0.10 | 7444081 |
| < +2 Phi (0.25 mm) | % | | | | | | | 76 | 0.10 | 7444081 |
| < +3 Phi (0.12 mm) | % | | | | | | | 73 | 0.10 | 7444081 |
| < +4 Phi (0.062 mm) | % | | | | | | | 71 | 0.10 | 7444081 |
| < +5 Phi (0.031 mm) | % | | | | | | | 67 | 0.10 | 7444081 |
| < +6 Phi (0.016 mm) | % | | | | | | | 66 | 0.10 | 7444081 |
| < +7 Phi (0.0078 mm) | % | | | | | | | 59 | 0.10 | 7444081 |
| < +8 Phi (0.0039 mm) | % | | | | | | | 53 | 0.10 | 7444081 |
| < +9 Phi (0.0020 mm) | % | | | | | | | 54 | 0.10 | 7444081 |
| Gravel | % | | | | | | | 0.77 | 0.10 | 7444081 |
| Sand | % | | | | | | | 28 | 0.10 | 7444081 |
| Silt | % | | | | | | | 18 | 0.10 | 7444081 |
| Clay | % | | | | | | | 53 | 0.10 | 7444081 |

| Subcontracted Analysis | | | | | | | | | | |
|-------------------------------|-----|--|--|--|--|--|--|----------|-----|---------|
| Subcontract Parameter | N/A | | | | | | | ATTACHED | N/A | 7454407 |

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Lab-Dup = Laboratory Initiated Duplicate
 N/A = Not Applicable



RESULTS OF ANALYSES OF SOIL

| BV Labs ID | | PXP343 | | PXP344 | | PXP345 | | PXP346 | | PXP347 | | |
|---------------|-------|---------------------|-----|---------------------|-----|---------------------|-----|---------------------|-----|---------------------|-----|----------|
| Sampling Date | | 2021/06/17 09:30 | | 2021/06/17 10:20 | | 2021/06/17 11:00 | | 2021/06/17 09:45 | | 2021/06/17 10:20 | | |
| COC Number | | N/A | | N/A | | N/A | | N/A | | N/A | | |
| | UNITS | E-46 | RDL | E-47 | RDL | E-55 | RDL | E-56 | RDL | E-62 | RDL | QC Batch |

| Inorganics | | | | | | | | | | | | |
|-----------------------|-------|--------|-------|--------|-------|--------|-------|--------|-------|----------|-------|---------|
| Ammonia-N | mg/kg | 1.7 | 0.39 | 3.4 | 0.58 | 1.8 | 0.54 | <0.37 | 0.37 | <3.3 | 3.3 | 7446594 |
| Chloride (Cl-) | mg/kg | 17 | 5.0 | 34 | 5.0 | 9.8 | 5.0 | 11 | 5.0 | 97 | 5.0 | 7448080 |
| Conductivity | uS/cm | 80 | 1.0 | 130 | 1.0 | 45 | 1.0 | 39 | 1.0 | 140 | 1.0 | 7448671 |
| Moisture | % | 31 | 1.0 | 53 | 1.0 | 49 | 1.0 | 29 | 1.0 | 91 | 1.0 | 7440816 |
| Nitrate + Nitrite (N) | mg/kg | 1.6 | 0.25 | 3.4 | 0.25 | 0.33 | 0.25 | <0.25 | 0.25 | 0.75 | 0.25 | 7448084 |
| Nitrite (N) | mg/kg | <0.050 | 0.050 | <0.050 | 0.050 | <0.050 | 0.050 | <0.050 | 0.050 | <0.050 | 0.050 | 7448085 |
| Orthophosphate (P) | mg/kg | 0.92 | 0.050 | 1.6 | 0.050 | 0.67 | 0.050 | 0.18 | 0.050 | 37 | 1.0 | 7448083 |
| Soluble (5:1) pH | pH | 4.95 | N/A | 4.27 | N/A | 4.95 | N/A | 5.15 | N/A | 3.64 (1) | N/A | 7448651 |
| Sulphate (SO4) | mg/kg | <10 | 10 | 17 | 10 | <10 | 10 | <10 | 10 | 50 | 10 | 7448082 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable
(1) pH value is beyond linear range, extended linearity has been confirmed.

| BV Labs ID | | PXP348 | | | PXP348 | | | PXP349 | | |
|---------------|-------|---------------------|-----|----------|---------------------|-----|----------|---------------------|-----|----------|
| Sampling Date | | 2021/06/16 08:45 | | | 2021/06/16 08:45 | | | 2021/06/16 08:55 | | |
| COC Number | | N/A | | | N/A | | | N/A | | |
| | UNITS | E-68 | RDL | QC Batch | E-68 Lab-Dup | RDL | QC Batch | E-74 | RDL | QC Batch |

| Inorganics | | | | | | | | | | |
|-----------------------|-------|--------|-------|---------|--------|-------|---------|--------|-------|---------|
| Ammonia-N | mg/kg | <0.42 | 0.42 | 7446594 | | | | <0.36 | 0.36 | 7446594 |
| Chloride (Cl-) | mg/kg | 12 | 5.0 | 7448096 | 12 | 5.0 | 7448096 | 12 | 5.0 | 7448080 |
| Conductivity | uS/cm | 39 | 1.0 | 7448637 | 40 | 1.0 | 7448637 | 36 | 1.0 | 7448671 |
| Moisture | % | 37 | 1.0 | 7440816 | | | | 28 | 1.0 | 7440816 |
| Nitrate + Nitrite (N) | mg/kg | <0.25 | 0.25 | 7448099 | <0.25 | 0.25 | 7448099 | 0.39 | 0.25 | 7448084 |
| Nitrite (N) | mg/kg | <0.050 | 0.050 | 7448100 | <0.050 | 0.050 | 7448100 | <0.050 | 0.050 | 7448085 |
| Orthophosphate (P) | mg/kg | 0.83 | 0.050 | 7448098 | 0.90 | 0.050 | 7448098 | 0.073 | 0.050 | 7448083 |
| Soluble (5:1) pH | pH | 4.84 | N/A | 7448631 | 4.82 | N/A | 7448631 | 4.76 | N/A | 7448651 |
| Sulphate (SO4) | mg/kg | <10 | 10 | 7448097 | <10 | 10 | 7448097 | <10 | 10 | 7448082 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable



RESULTS OF ANALYSES OF SOIL

| BV Labs ID | | PXP350 | | | PXP351 | | | PXP352 | | | PXP353 | | |
|---------------|-------|------------|-----|----------|------------|-----|-------|------------|-------|-----|------------|--|--|
| Sampling Date | | 2021/06/14 | | | 2021/06/15 | | | 2021/06/16 | | | 2021/06/16 | | |
| COC Number | | N/A | | | N/A | | | N/A | | | N/A | | |
| | UNITS | DUP-A | RDL | QC Batch | DUP-B | RDL | DUP-C | RDL | DUP-D | RDL | QC Batch | | |

| Inorganics | | | | | | | | | | | |
|-----------------------|-------|--------|-------|---------|--------|-------|--------|-------|--------|-------|---------|
| Ammonia-N | mg/kg | <0.42 | 0.42 | 7446594 | <0.33 | 0.33 | 0.43 | 0.43 | <0.32 | 0.32 | 7446594 |
| Chloride (Cl-) | mg/kg | 6.1 | 5.0 | 7440858 | 10 | 5.0 | 13 | 5.0 | <5.0 | 5.0 | 7448096 |
| Conductivity | uS/cm | 19 | 1.0 | 7435915 | 38 | 1.0 | 45 | 1.0 | 19 | 1.0 | 7448637 |
| Moisture | % | 36 | 1.0 | 7432666 | 23 | 1.0 | 38 | 1.0 | 20 | 1.0 | 7440816 |
| Nitrate + Nitrite (N) | mg/kg | 1.5 | 0.25 | 7440867 | 0.42 | 0.25 | 0.25 | 0.25 | <0.25 | 0.25 | 7448099 |
| Nitrite (N) | mg/kg | <0.050 | 0.050 | 7440868 | <0.050 | 0.050 | <0.050 | 0.050 | <0.050 | 0.050 | 7448100 |
| Orthophosphate (P) | mg/kg | <0.050 | 0.050 | 7440865 | 14 | 1.0 | 0.13 | 0.050 | 13 | 1.0 | 7448098 |
| Soluble (5:1) pH | pH | 5.20 | N/A | 7435909 | 4.71 | N/A | 4.63 | N/A | 4.68 | N/A | 7448631 |
| Sulphate (SO4) | mg/kg | 19 (1) | 11 | 7440860 | 12 | 10 | <10 | 10 | <10 | 10 | 7448097 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable
(1) Elevated reporting limit due to blank performance.

| BV Labs ID | | PXP355 | | | PXP356 | | | PXP356 | | |
|---------------|-------|------------|-----|----------|------------|-----|----------|---------------|-----|----------|
| Sampling Date | | 2021/06/16 | | | 2021/06/17 | | | 2021/06/17 | | |
| COC Number | | N/A | | | N/A | | | N/A | | |
| | UNITS | DUP-E | RDL | QC Batch | DUP-F | RDL | QC Batch | DUP-F Lab-Dup | RDL | QC Batch |

| Inorganics | | | | | | | | | | | |
|-----------------------|-------|--------|-------|---------|--------|-------|---------|----|-----|---------|--|
| Ammonia-N | mg/kg | <0.35 | 0.35 | 7446594 | <0.43 | 0.43 | 7446601 | | | | |
| Chloride (Cl-) | mg/kg | 9.7 | 5.0 | 7448096 | 8.6 | 5.0 | 7448096 | | | | |
| Conductivity | uS/cm | 28 | 1.0 | 7448637 | 55 | 1.0 | 7448637 | | | | |
| Moisture | % | 26 | 1.0 | 7440816 | 37 | 1.0 | 7441029 | 36 | 1.0 | 7441029 | |
| Nitrate + Nitrite (N) | mg/kg | <0.25 | 0.25 | 7448099 | 0.53 | 0.25 | 7448099 | | | | |
| Nitrite (N) | mg/kg | <0.050 | 0.050 | 7448100 | <0.050 | 0.050 | 7448100 | | | | |
| Orthophosphate (P) | mg/kg | 0.10 | 0.050 | 7448098 | 11 | 0.25 | 7448098 | | | | |
| Soluble (5:1) pH | pH | 4.75 | N/A | 7448631 | 4.28 | N/A | 7448631 | | | | |
| Sulphate (SO4) | mg/kg | <10 | 10 | 7448097 | <10 | 10 | 7448097 | | | | |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable



BV Labs Job #: C1H4101
 Report Date: 2021/07/14

GHD Limited
 Client Project #: 11222385
 Site Location: GOLDBORO
 Your P.O. #: TO FOLLOW
 Sampler Initials: JV

RESULTS OF ANALYSES OF SOIL

| | | | | |
|--|--------------|--------------|------------|-----------------|
| BV Labs ID | | PXP357 | | |
| Sampling Date | | 2021/06/15 | | |
| COC Number | | N/A | | |
| | UNITS | DUP-T | RDL | QC Batch |
| Inorganics | | | | |
| Total Inorganic Carbon (C) | g/kg | <0.5 | 0.5 | 7430582 |
| Organic Carbon (TOC) | g/kg | 3.7 | 0.50 | 7448009 |
| Total Carbon-combustion IR | g/kg | 3.6 | 0.50 | 7448515 |
| < -1 Phi (2 mm) | % | 100 | 0.10 | 7444081 |
| < 0 Phi (1 mm) | % | 100 | 0.10 | 7444081 |
| < +1 Phi (0.5 mm) | % | 99 | 0.10 | 7444081 |
| < +2 Phi (0.25 mm) | % | 91 | 0.10 | 7444081 |
| < +3 Phi (0.12 mm) | % | 64 | 0.10 | 7444081 |
| < +4 Phi (0.062 mm) | % | 36 | 0.10 | 7444081 |
| < +5 Phi (0.031 mm) | % | 15 | 0.10 | 7444081 |
| < +6 Phi (0.016 mm) | % | 5.7 | 0.10 | 7444081 |
| < +7 Phi (0.0078 mm) | % | 1.6 | 0.10 | 7444081 |
| < +8 Phi (0.0039 mm) | % | 1.2 | 0.10 | 7444081 |
| < +9 Phi (0.0020 mm) | % | 0.80 | 0.10 | 7444081 |
| Gravel | % | <0.10 | 0.10 | 7444081 |
| Sand | % | 64 | 0.10 | 7444081 |
| Silt | % | 35 | 0.10 | 7444081 |
| Clay | % | 1.2 | 0.10 | 7444081 |
| Subcontracted Analysis | | | | |
| Subcontract Parameter | N/A | ATTACHED | N/A | 7454387 |
| RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable | | | | |



BUREAU
VERITAS

BV Labs Job #: C1H4101
Report Date: 2021/07/14

GHD Limited
Client Project #: 11222385
Site Location: GOLDBORO
Your P.O. #: TO FOLLOW
Sampler Initials: JV

CONVENTIONALS (SOIL)

| | | | | | | | | | | |
|----------------------|--------------|---------------------|-------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|------------|-----------------|
| BV Labs ID | | PXP280 | PXP280 | PXP293 | PXP294 | PXP313 | PXP319 | PXP340 | | |
| Sampling Date | | 2021/06/15 09:10 | 2021/06/15 09:10 | 2021/06/15 11:05 | 2021/06/15 12:00 | 2021/06/16 11:00 | 2021/06/16 16:20 | 2021/06/17 09:15 | | |
| COC Number | | N/A | N/A | N/A | N/A | | | N/A | | |
| | UNITS | A-24 | A-24 Lab-Dup | B-37 | B-38 | D-07 | D-22 | E-35 | RDL | QC Batch |

| | | | | | | | | | | |
|--|-------|------|------|-------|------|-------|------|------|-------|---------|
| Inorganics | | | | | | | | | | |
| Total Sulphur (S) | % g/g | 0.24 | 0.24 | 0.013 | 0.16 | 0.021 | 0.66 | 0.38 | 0.010 | 7445881 |
| RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate | | | | | | | | | | |

| | | | | |
|--|--------------|--------------|------------|-----------------|
| BV Labs ID | | PXP357 | | |
| Sampling Date | | 2021/06/15 | | |
| COC Number | | N/A | | |
| | UNITS | DUP-T | RDL | QC Batch |
| Inorganics | | | | |
| Total Sulphur (S) | % g/g | 0.020 | 0.010 | 7445881 |
| RDL = Reportable Detection Limit QC Batch = Quality Control Batch | | | | |



BV Labs Job #: C1H4101
 Report Date: 2021/07/14

GHD Limited
 Client Project #: 11222385
 Site Location: GOLDBORO
 Your P.O. #: TO FOLLOW
 Sampler Initials: JV

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

| BV Labs ID | | PXP276 | PXP277 | PXP278 | | PXP279 | | PXP280 | | |
|---------------|--------------|---------------------|---------------------|---------------------|------------|---------------------|-----------------|---------------------|------------|-----------------|
| Sampling Date | | 2021/06/14 15:40 | 2021/06/14 14:45 | 2021/06/14 17:35 | | 2021/06/14 14:05 | | 2021/06/15 09:10 | | |
| COC Number | | N/A | N/A | N/A | | N/A | | N/A | | |
| | UNITS | A-05 | A-08 | A-13 | RDL | A-14 | QC Batch | A-24 | RDL | QC Batch |

| Metals | | | | | | | | | | |
|----------------------------------|-------|-------|-------|-------|------|-------|---------|-------|------|---------|
| Acid Extractable Aluminum (Al) | mg/kg | 3700 | 7800 | 7700 | 10 | 13000 | 7435136 | 13000 | 10 | 7437988 |
| Acid Extractable Antimony (Sb) | mg/kg | <2.0 | <2.0 | <2.0 | 2.0 | <2.0 | 7435136 | <2.0 | 2.0 | 7437988 |
| Acid Extractable Arsenic (As) | mg/kg | 6.1 | 86 | 5.4 | 2.0 | 2000 | 7435136 | 1900 | 20 | 7437988 |
| Acid Extractable Barium (Ba) | mg/kg | 11 | 38 | 27 | 5.0 | 63 | 7435136 | 61 | 5.0 | 7437988 |
| Acid Extractable Beryllium (Be) | mg/kg | <2.0 | <2.0 | <2.0 | 2.0 | <2.0 | 7435136 | <2.0 | 2.0 | 7437988 |
| Acid Extractable Bismuth (Bi) | mg/kg | <2.0 | <2.0 | <2.0 | 2.0 | <2.0 | 7435136 | <2.0 | 2.0 | 7437988 |
| Acid Extractable Boron (B) | mg/kg | <50 | <50 | <50 | 50 | <50 | 7435136 | <50 | 50 | 7437988 |
| Acid Extractable Cadmium (Cd) | mg/kg | <0.30 | <0.30 | <0.30 | 0.30 | 0.35 | 7435136 | 0.38 | 0.30 | 7437988 |
| Acid Extractable Chromium (Cr) | mg/kg | 5.8 | 15 | 12 | 2.0 | 22 | 7435136 | 17 | 2.0 | 7437988 |
| Acid Extractable Cobalt (Co) | mg/kg | <1.0 | 2.8 | 2.8 | 1.0 | 14 | 7435136 | 7.2 | 1.0 | 7437988 |
| Acid Extractable Copper (Cu) | mg/kg | <2.0 | 4.5 | 2.0 | 2.0 | 26 | 7435136 | 17 | 2.0 | 7437988 |
| Acid Extractable Iron (Fe) | mg/kg | 3700 | 12000 | 7900 | 50 | 28000 | 7435136 | 20000 | 50 | 7437988 |
| Acid Extractable Lead (Pb) | mg/kg | 4.9 | 8.8 | 4.4 | 0.50 | 48 | 7435136 | 47 | 0.50 | 7437988 |
| Acid Extractable Lithium (Li) | mg/kg | 3.5 | 11 | 11 | 2.0 | 26 | 7435136 | 27 | 2.0 | 7437988 |
| Acid Extractable Manganese (Mn) | mg/kg | 51 | 140 | 110 | 2.0 | 890 | 7435136 | 1200 | 2.0 | 7437988 |
| Acid Extractable Mercury (Hg) | mg/kg | <0.10 | <0.10 | <0.10 | 0.10 | 0.45 | 7435136 | 3.2 | 0.10 | 7437988 |
| Acid Extractable Molybdenum (Mo) | mg/kg | <2.0 | <2.0 | <2.0 | 2.0 | <2.0 | 7435136 | <2.0 | 2.0 | 7437988 |
| Acid Extractable Nickel (Ni) | mg/kg | 2.9 | 8.7 | 7.8 | 2.0 | 23 | 7435136 | 15 | 2.0 | 7437988 |
| Acid Extractable Rubidium (Rb) | mg/kg | 4.6 | 14 | 12 | 2.0 | 23 | 7435136 | 17 | 2.0 | 7437988 |
| Acid Extractable Selenium (Se) | mg/kg | <0.50 | <0.50 | <0.50 | 0.50 | 0.53 | 7435136 | 0.92 | 0.50 | 7437988 |
| Acid Extractable Silver (Ag) | mg/kg | <0.50 | <0.50 | <0.50 | 0.50 | <0.50 | 7435136 | <0.50 | 0.50 | 7437988 |
| Acid Extractable Strontium (Sr) | mg/kg | <5.0 | <5.0 | <5.0 | 5.0 | 18 | 7435136 | 46 | 5.0 | 7437988 |
| Acid Extractable Thallium (Tl) | mg/kg | <0.10 | 0.12 | <0.10 | 0.10 | 0.29 | 7435136 | 0.29 | 0.10 | 7437988 |
| Acid Extractable Tin (Sn) | mg/kg | <1.0 | <1.0 | <1.0 | 1.0 | 1.3 | 7435136 | 1.3 | 1.0 | 7437988 |
| Acid Extractable Uranium (U) | mg/kg | 0.51 | 0.48 | 0.47 | 0.10 | 1.3 | 7435136 | 1.8 | 0.10 | 7437988 |
| Acid Extractable Vanadium (V) | mg/kg | 7.0 | 21 | 13 | 2.0 | 28 | 7435136 | 19 | 2.0 | 7437988 |
| Acid Extractable Zinc (Zn) | mg/kg | 7.0 | 19 | 16 | 5.0 | 84 | 7435136 | 80 | 5.0 | 7437988 |

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch



BV Labs Job #: C1H4101
 Report Date: 2021/07/14

GHD Limited
 Client Project #: 11222385
 Site Location: GOLDBORO
 Your P.O. #: TO FOLLOW
 Sampler Initials: JV

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

| BV Labs ID | | PXP281 | | | PXP282 | | | PXP283 | | | PXP284 | | |
|---------------|-------|---------------------|-----|----------|---------------------|-----|------|---------------------|------|-----|---------------------|--|--|
| Sampling Date | | 2021/06/14 15:40 | | | 2021/06/15 09:00 | | | 2021/06/15 09:30 | | | 2021/06/14 16:55 | | |
| COC Number | | N/A | | | N/A | | | N/A | | | N/A | | |
| | UNITS | A-26 | RDL | QC Batch | A-28 | RDL | A-36 | QC Batch | A-41 | RDL | QC Batch | | |

| Metals | | | | | | | | | | | |
|----------------------------------|-------|-------|------|---------|-------|------|-------|---------|-------|------|---------|
| Acid Extractable Aluminum (Al) | mg/kg | 11000 | 10 | 7435136 | 9700 | 10 | 11000 | 7437988 | 5900 | 10 | 7435136 |
| Acid Extractable Antimony (Sb) | mg/kg | <2.0 | 2.0 | 7435136 | <2.0 | 2.0 | <2.0 | 7437988 | <2.0 | 2.0 | 7435136 |
| Acid Extractable Arsenic (As) | mg/kg | 160 | 2.0 | 7435136 | 560 | 20 | 15 | 7437988 | 13 | 2.0 | 7435136 |
| Acid Extractable Barium (Ba) | mg/kg | 51 | 5.0 | 7435136 | 51 | 5.0 | 18 | 7437988 | 7.9 | 5.0 | 7435136 |
| Acid Extractable Beryllium (Be) | mg/kg | <2.0 | 2.0 | 7435136 | <2.0 | 2.0 | <2.0 | 7437988 | <2.0 | 2.0 | 7435136 |
| Acid Extractable Bismuth (Bi) | mg/kg | <2.0 | 2.0 | 7435136 | <2.0 | 2.0 | <2.0 | 7437988 | <2.0 | 2.0 | 7435136 |
| Acid Extractable Boron (B) | mg/kg | <50 | 50 | 7435136 | <50 | 50 | <50 | 7437988 | <50 | 50 | 7435136 |
| Acid Extractable Cadmium (Cd) | mg/kg | <0.30 | 0.30 | 7435136 | 0.54 | 0.30 | <0.30 | 7437988 | <0.30 | 0.30 | 7435136 |
| Acid Extractable Chromium (Cr) | mg/kg | 19 | 2.0 | 7435136 | 9.9 | 2.0 | 14 | 7437988 | 7.3 | 2.0 | 7435136 |
| Acid Extractable Cobalt (Co) | mg/kg | 20 | 1.0 | 7435136 | 8.1 | 1.0 | 2.2 | 7437988 | <1.0 | 1.0 | 7435136 |
| Acid Extractable Copper (Cu) | mg/kg | 5.6 | 2.0 | 7435136 | 12 | 2.0 | 3.3 | 7437988 | <2.0 | 2.0 | 7435136 |
| Acid Extractable Iron (Fe) | mg/kg | 13000 | 50 | 7435136 | 10000 | 50 | 13000 | 7437988 | 8400 | 50 | 7435136 |
| Acid Extractable Lead (Pb) | mg/kg | 8.7 | 0.50 | 7435136 | 39 | 0.50 | 6.4 | 7437988 | 3.1 | 0.50 | 7435136 |
| Acid Extractable Lithium (Li) | mg/kg | 17 | 2.0 | 7435136 | 8.0 | 2.0 | 9.0 | 7437988 | 6.8 | 2.0 | 7435136 |
| Acid Extractable Manganese (Mn) | mg/kg | 1500 | 2.0 | 7435136 | 1100 | 2.0 | 100 | 7437988 | 43 | 2.0 | 7435136 |
| Acid Extractable Mercury (Hg) | mg/kg | <0.10 | 0.10 | 7435136 | 0.82 | 0.10 | <0.10 | 7437988 | <0.10 | 0.10 | 7435136 |
| Acid Extractable Molybdenum (Mo) | mg/kg | <2.0 | 2.0 | 7435136 | <2.0 | 2.0 | <2.0 | 7437988 | <2.0 | 2.0 | 7435136 |
| Acid Extractable Nickel (Ni) | mg/kg | 15 | 2.0 | 7435136 | 9.0 | 2.0 | 6.6 | 7437988 | 3.1 | 2.0 | 7435136 |
| Acid Extractable Rubidium (Rb) | mg/kg | 17 | 2.0 | 7435136 | 7.6 | 2.0 | 7.3 | 7437988 | 3.5 | 2.0 | 7435136 |
| Acid Extractable Selenium (Se) | mg/kg | 0.58 | 0.50 | 7435136 | 1.8 | 0.50 | 0.65 | 7437988 | <0.50 | 0.50 | 7435136 |
| Acid Extractable Silver (Ag) | mg/kg | <0.50 | 0.50 | 7435136 | <0.50 | 0.50 | <0.50 | 7437988 | <0.50 | 0.50 | 7435136 |
| Acid Extractable Strontium (Sr) | mg/kg | <5.0 | 5.0 | 7435136 | 57 | 5.0 | <5.0 | 7437988 | <5.0 | 5.0 | 7435136 |
| Acid Extractable Thallium (Tl) | mg/kg | 0.16 | 0.10 | 7435136 | 0.21 | 0.10 | <0.10 | 7437988 | <0.10 | 0.10 | 7435136 |
| Acid Extractable Tin (Sn) | mg/kg | <1.0 | 1.0 | 7435136 | <1.0 | 1.0 | <1.0 | 7437988 | <1.0 | 1.0 | 7435136 |
| Acid Extractable Uranium (U) | mg/kg | 0.66 | 0.10 | 7435136 | 1.6 | 0.10 | 0.61 | 7437988 | 0.46 | 0.10 | 7435136 |
| Acid Extractable Vanadium (V) | mg/kg | 23 | 2.0 | 7435136 | 16 | 2.0 | 29 | 7437988 | 18 | 2.0 | 7435136 |
| Acid Extractable Zinc (Zn) | mg/kg | 41 | 5.0 | 7435136 | 67 | 5.0 | 17 | 7437988 | 6.7 | 5.0 | 7435136 |

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch



ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

| BV Labs ID | | PXP285 | | PXP287 | PXP287 | | PXP288 | PXP289 | | |
|---------------|-------|---------------------|----------|---------------------|---------------------|----------|---------------------|---------------------|-----|----------|
| Sampling Date | | 2021/06/14 17:30 | | 2021/06/15 14:50 | 2021/06/15 14:50 | | 2021/06/15 11:05 | 2021/06/15 12:40 | | |
| COC Number | | N/A | | N/A | N/A | | N/A | N/A | | |
| | UNITS | A-45 | QC Batch | B-04 | B-04 Lab-Dup | QC Batch | B-06 | B-13 | RDL | QC Batch |

| Metals | | | | | | | | | | |
|----------------------------------|-------|-------|---------|-------|-------|---------|-------|-------|------|---------|
| Acid Extractable Aluminum (Al) | mg/kg | 20000 | 7435136 | 4900 | 5100 | 7443412 | 4100 | 12000 | 10 | 7437988 |
| Acid Extractable Antimony (Sb) | mg/kg | <2.0 | 7435136 | <2.0 | <2.0 | 7443412 | <2.0 | <2.0 | 2.0 | 7437988 |
| Acid Extractable Arsenic (As) | mg/kg | 14 | 7435136 | 6.5 | 6.6 | 7443412 | 29 | 17 | 2.0 | 7437988 |
| Acid Extractable Barium (Ba) | mg/kg | 26 | 7435136 | 12 | 12 | 7443412 | 14 | 36 | 5.0 | 7437988 |
| Acid Extractable Beryllium (Be) | mg/kg | <2.0 | 7435136 | <2.0 | <2.0 | 7443412 | <2.0 | <2.0 | 2.0 | 7437988 |
| Acid Extractable Bismuth (Bi) | mg/kg | <2.0 | 7435136 | <2.0 | <2.0 | 7443412 | <2.0 | <2.0 | 2.0 | 7437988 |
| Acid Extractable Boron (B) | mg/kg | <50 | 7435136 | <50 | <50 | 7443412 | <50 | <50 | 50 | 7437988 |
| Acid Extractable Cadmium (Cd) | mg/kg | <0.30 | 7435136 | <0.30 | <0.30 | 7443412 | <0.30 | <0.30 | 0.30 | 7437988 |
| Acid Extractable Chromium (Cr) | mg/kg | 22 | 7435136 | 8.4 | 9.0 | 7443412 | 4.2 | 20 | 2.0 | 7437988 |
| Acid Extractable Cobalt (Co) | mg/kg | 4.3 | 7435136 | 1.6 | 1.7 | 7443412 | <1.0 | 2.7 | 1.0 | 7437988 |
| Acid Extractable Copper (Cu) | mg/kg | 8.3 | 7435136 | <2.0 | <2.0 | 7443412 | 3.0 | <2.0 | 2.0 | 7437988 |
| Acid Extractable Iron (Fe) | mg/kg | 19000 | 7435136 | 4300 | 4500 | 7443412 | 1300 | 15000 | 50 | 7437988 |
| Acid Extractable Lead (Pb) | mg/kg | 8.8 | 7435136 | 4.7 | 4.9 | 7443412 | 13 | 6.9 | 0.50 | 7437988 |
| Acid Extractable Lithium (Li) | mg/kg | 19 | 7435136 | 5.2 | 5.5 | 7443412 | <2.0 | 12 | 2.0 | 7437988 |
| Acid Extractable Manganese (Mn) | mg/kg | 150 | 7435136 | 69 | 74 | 7443412 | 13 | 150 | 2.0 | 7437988 |
| Acid Extractable Mercury (Hg) | mg/kg | <0.10 | 7435136 | <0.10 | <0.10 | 7443412 | 0.22 | <0.10 | 0.10 | 7437988 |
| Acid Extractable Molybdenum (Mo) | mg/kg | <2.0 | 7435136 | <2.0 | <2.0 | 7443412 | <2.0 | <2.0 | 2.0 | 7437988 |
| Acid Extractable Nickel (Ni) | mg/kg | 13 | 7435136 | 4.9 | 5.2 | 7443412 | 2.3 | 8.6 | 2.0 | 7437988 |
| Acid Extractable Rubidium (Rb) | mg/kg | 9.8 | 7435136 | 4.2 | 4.3 | 7443412 | 3.3 | 11 | 2.0 | 7437988 |
| Acid Extractable Selenium (Se) | mg/kg | 0.84 | 7435136 | <0.50 | <0.50 | 7443412 | 1.1 | 0.65 | 0.50 | 7437988 |
| Acid Extractable Silver (Ag) | mg/kg | <0.50 | 7435136 | <0.50 | <0.50 | 7443412 | <0.50 | <0.50 | 0.50 | 7437988 |
| Acid Extractable Strontium (Sr) | mg/kg | <5.0 | 7435136 | <5.0 | <5.0 | 7443412 | 8.9 | <5.0 | 5.0 | 7437988 |
| Acid Extractable Thallium (Tl) | mg/kg | 0.10 | 7435136 | <0.10 | <0.10 | 7443412 | <0.10 | 0.10 | 0.10 | 7437988 |
| Acid Extractable Tin (Sn) | mg/kg | <1.0 | 7435136 | <1.0 | <1.0 | 7443412 | <1.0 | 1.0 | 1.0 | 7437988 |
| Acid Extractable Uranium (U) | mg/kg | 0.70 | 7435136 | 0.40 | 0.42 | 7443412 | 0.62 | 0.61 | 0.10 | 7437988 |
| Acid Extractable Vanadium (V) | mg/kg | 23 | 7435136 | 14 | 14 | 7443412 | 5.7 | 38 | 2.0 | 7437988 |
| Acid Extractable Zinc (Zn) | mg/kg | 30 | 7435136 | 8.5 | 9.2 | 7443412 | <5.0 | 17 | 5.0 | 7437988 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate



BUREAU
VERITAS

BV Labs Job #: C1H4101
Report Date: 2021/07/14

GHD Limited
Client Project #: 11222385
Site Location: GOLDBORO
Your P.O. #: TO FOLLOW
Sampler Initials: JV

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

| BV Labs ID | | PXP290 | | PXP291 | PXP292 | | PXP293 | | PXP294 | | |
|---------------|-------|---------------------|-----|---------------------|---------------------|-----|---------------------|-----|---------------------|-----|----------|
| Sampling Date | | 2021/06/15 14:30 | | 2021/06/15 11:30 | 2021/06/15 13:45 | | 2021/06/15 11:05 | | 2021/06/15 12:00 | | |
| COC Number | | N/A | | N/A | N/A | | N/A | | N/A | | |
| | UNITS | B-21 | RDL | B-24 | B-36 | RDL | B-37 | RDL | B-38 | RDL | QC Batch |

| Metals | | | | | | | | | | | |
|----------------------------------|-------|-------|------|-------|-------|------|-------|------|-------|------|---------|
| Acid Extractable Aluminum (Al) | mg/kg | 8400 | 10 | 8600 | 8800 | 10 | 15000 | 10 | 19000 | 10 | 7437988 |
| Acid Extractable Antimony (Sb) | mg/kg | <2.0 | 2.0 | <2.0 | <2.0 | 2.0 | 4.3 | 2.0 | 3.9 | 2.0 | 7437988 |
| Acid Extractable Arsenic (As) | mg/kg | 2400 | 20 | 4.3 | 280 | 2.0 | 9500 | 200 | 4000 | 20 | 7437988 |
| Acid Extractable Barium (Ba) | mg/kg | 38 | 5.0 | 19 | 37 | 5.0 | 82 | 5.0 | 84 | 5.0 | 7437988 |
| Acid Extractable Beryllium (Be) | mg/kg | <2.0 | 2.0 | <2.0 | <2.0 | 2.0 | <2.0 | 2.0 | <2.0 | 2.0 | 7437988 |
| Acid Extractable Bismuth (Bi) | mg/kg | <2.0 | 2.0 | <2.0 | <2.0 | 2.0 | <2.0 | 2.0 | <2.0 | 2.0 | 7437988 |
| Acid Extractable Boron (B) | mg/kg | <50 | 50 | <50 | <50 | 50 | <50 | 50 | <50 | 50 | 7437988 |
| Acid Extractable Cadmium (Cd) | mg/kg | 0.32 | 0.30 | <0.30 | <0.30 | 0.30 | <0.30 | 0.30 | 1.0 | 0.30 | 7437988 |
| Acid Extractable Chromium (Cr) | mg/kg | 15 | 2.0 | 11 | 14 | 2.0 | 23 | 2.0 | 22 | 2.0 | 7437988 |
| Acid Extractable Cobalt (Co) | mg/kg | 8.2 | 1.0 | 1.8 | 4.6 | 1.0 | <1.0 | 1.0 | 20 | 1.0 | 7437988 |
| Acid Extractable Copper (Cu) | mg/kg | 6.7 | 2.0 | 2.4 | 11 | 2.0 | 3.0 | 2.0 | 45 | 2.0 | 7437988 |
| Acid Extractable Iron (Fe) | mg/kg | 12000 | 50 | 6000 | 13000 | 50 | 32000 | 50 | 33000 | 50 | 7437988 |
| Acid Extractable Lead (Pb) | mg/kg | 13 | 0.50 | 8.6 | 11 | 0.50 | 24 | 0.50 | 76 | 0.50 | 7437988 |
| Acid Extractable Lithium (Li) | mg/kg | 10 | 2.0 | 13 | 17 | 2.0 | 27 | 2.0 | 32 | 2.0 | 7437988 |
| Acid Extractable Manganese (Mn) | mg/kg | 140 | 2.0 | 100 | 260 | 2.0 | 380 | 2.0 | 550 | 2.0 | 7437988 |
| Acid Extractable Mercury (Hg) | mg/kg | 1.8 | 0.10 | <0.10 | 0.75 | 0.10 | 6.2 | 0.10 | 7.2 | 0.10 | 7437988 |
| Acid Extractable Molybdenum (Mo) | mg/kg | <2.0 | 2.0 | <2.0 | <2.0 | 2.0 | <2.0 | 2.0 | <2.0 | 2.0 | 7437988 |
| Acid Extractable Nickel (Ni) | mg/kg | 18 | 2.0 | 6.4 | 11 | 2.0 | 7.9 | 2.0 | 59 | 2.0 | 7437988 |
| Acid Extractable Rubidium (Rb) | mg/kg | 12 | 2.0 | 9.1 | 16 | 2.0 | 53 | 2.0 | 33 | 2.0 | 7437988 |
| Acid Extractable Selenium (Se) | mg/kg | <0.50 | 0.50 | <0.50 | <0.50 | 0.50 | <0.50 | 0.50 | 0.95 | 0.50 | 7437988 |
| Acid Extractable Silver (Ag) | mg/kg | <0.50 | 0.50 | <0.50 | <0.50 | 0.50 | <0.50 | 0.50 | <0.50 | 0.50 | 7437988 |
| Acid Extractable Strontium (Sr) | mg/kg | 8.4 | 5.0 | <5.0 | <5.0 | 5.0 | <5.0 | 5.0 | 24 | 5.0 | 7437988 |
| Acid Extractable Thallium (Tl) | mg/kg | 0.13 | 0.10 | <0.10 | 0.12 | 0.10 | 0.37 | 0.10 | 0.33 | 0.10 | 7437988 |
| Acid Extractable Tin (Sn) | mg/kg | <1.0 | 1.0 | <1.0 | <1.0 | 1.0 | 2.1 | 1.0 | 1.2 | 1.0 | 7437988 |
| Acid Extractable Uranium (U) | mg/kg | 0.58 | 0.10 | 1.2 | 0.65 | 0.10 | 0.53 | 0.10 | 1.1 | 0.10 | 7437988 |
| Acid Extractable Vanadium (V) | mg/kg | 20 | 2.0 | 10 | 18 | 2.0 | 26 | 2.0 | 26 | 2.0 | 7437988 |
| Acid Extractable Zinc (Zn) | mg/kg | 160 | 5.0 | 11 | 33 | 5.0 | 42 | 5.0 | 280 | 5.0 | 7437988 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



BUREAU
VERITAS

BV Labs Job #: C1H4101
Report Date: 2021/07/14

GHD Limited
Client Project #: 11222385
Site Location: GOLDBORO
Your P.O. #: TO FOLLOW
Sampler Initials: JV

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

| BV Labs ID | | PXP295 | | | PXP296 | | PXP301 | PXP302 | | |
|--|-------|---------------------|------|----------|---------------------|----------|---------------------|---------------------|------|----------|
| Sampling Date | | 2021/06/15 10:15 | | | 2021/06/15 15:45 | | 2021/06/15 15:10 | 2021/06/15 13:05 | | |
| COC Number | | N/A | | | N/A | | N/A | N/A | | |
| | UNITS | B-40 | RDL | QC Batch | B-46 | QC Batch | B-47 | B-56 | RDL | QC Batch |
| Metals | | | | | | | | | | |
| Acid Extractable Aluminum (Al) | mg/kg | 6500 | 10 | 7437988 | 1000 | 7443412 | 6700 | 6600 | 10 | 7445462 |
| Acid Extractable Antimony (Sb) | mg/kg | <2.0 | 2.0 | 7437988 | <2.0 | 7443412 | <2.0 | <2.0 | 2.0 | 7445462 |
| Acid Extractable Arsenic (As) | mg/kg | 2200 | 20 | 7437988 | 5.3 | 7443412 | 23 | 8.3 | 2.0 | 7445462 |
| Acid Extractable Barium (Ba) | mg/kg | 29 | 5.0 | 7437988 | 33 | 7443412 | 29 | 31 | 5.0 | 7445462 |
| Acid Extractable Beryllium (Be) | mg/kg | <2.0 | 2.0 | 7437988 | <2.0 | 7443412 | <2.0 | <2.0 | 2.0 | 7445462 |
| Acid Extractable Bismuth (Bi) | mg/kg | <2.0 | 2.0 | 7437988 | <2.0 | 7443412 | <2.0 | <2.0 | 2.0 | 7445462 |
| Acid Extractable Boron (B) | mg/kg | <50 | 50 | 7437988 | <50 | 7443412 | <50 | <50 | 50 | 7445462 |
| Acid Extractable Cadmium (Cd) | mg/kg | <0.30 | 0.30 | 7437988 | 0.33 | 7443412 | <0.30 | <0.30 | 0.30 | 7445462 |
| Acid Extractable Chromium (Cr) | mg/kg | 12 | 2.0 | 7437988 | <2.0 | 7443412 | 11 | 11 | 2.0 | 7445462 |
| Acid Extractable Cobalt (Co) | mg/kg | 3.4 | 1.0 | 7437988 | <1.0 | 7443412 | 4.4 | 4.2 | 1.0 | 7445462 |
| Acid Extractable Copper (Cu) | mg/kg | 9.6 | 2.0 | 7437988 | 5.1 | 7443412 | 7.7 | 7.7 | 2.0 | 7445462 |
| Acid Extractable Iron (Fe) | mg/kg | 14000 | 50 | 7437988 | 1400 | 7443412 | 10000 | 11000 | 50 | 7445462 |
| Acid Extractable Lead (Pb) | mg/kg | 12 | 0.50 | 7437988 | 25 | 7443412 | 4.1 | 3.3 | 0.50 | 7445462 |
| Acid Extractable Lithium (Li) | mg/kg | 15 | 2.0 | 7437988 | <2.0 | 7443412 | 14 | 15 | 2.0 | 7445462 |
| Acid Extractable Manganese (Mn) | mg/kg | 140 | 2.0 | 7437988 | 43 | 7443412 | 150 | 160 | 2.0 | 7445462 |
| Acid Extractable Mercury (Hg) | mg/kg | 0.42 | 0.10 | 7437988 | 0.32 | 7443412 | <0.10 | <0.10 | 0.10 | 7445462 |
| Acid Extractable Molybdenum (Mo) | mg/kg | <2.0 | 2.0 | 7437988 | <2.0 | 7443412 | <2.0 | <2.0 | 2.0 | 7445462 |
| Acid Extractable Nickel (Ni) | mg/kg | 9.2 | 2.0 | 7437988 | 2.7 | 7443412 | 9.7 | 10 | 2.0 | 7445462 |
| Acid Extractable Rubidium (Rb) | mg/kg | 16 | 2.0 | 7437988 | <2.0 | 7443412 | 15 | 14 | 2.0 | 7445462 |
| Acid Extractable Selenium (Se) | mg/kg | <0.50 | 0.50 | 7437988 | 1.4 | 7443412 | <0.50 | <0.50 | 0.50 | 7445462 |
| Acid Extractable Silver (Ag) | mg/kg | <0.50 | 0.50 | 7437988 | <0.50 | 7443412 | <0.50 | <0.50 | 0.50 | 7445462 |
| Acid Extractable Strontium (Sr) | mg/kg | <5.0 | 5.0 | 7437988 | 27 | 7443412 | <5.0 | <5.0 | 5.0 | 7445462 |
| Acid Extractable Thallium (Tl) | mg/kg | <0.10 | 0.10 | 7437988 | <0.10 | 7443412 | 0.11 | <0.10 | 0.10 | 7445462 |
| Acid Extractable Tin (Sn) | mg/kg | <1.0 | 1.0 | 7437988 | <1.0 | 7443412 | <1.0 | <1.0 | 1.0 | 7445462 |
| Acid Extractable Uranium (U) | mg/kg | 0.58 | 0.10 | 7437988 | 0.17 | 7443412 | 0.56 | 0.52 | 0.10 | 7445462 |
| Acid Extractable Vanadium (V) | mg/kg | 14 | 2.0 | 7437988 | 3.6 | 7443412 | 14 | 14 | 2.0 | 7445462 |
| Acid Extractable Zinc (Zn) | mg/kg | 39 | 5.0 | 7437988 | 15 | 7443412 | 20 | 21 | 5.0 | 7445462 |
| RDL = Reportable Detection Limit QC Batch = Quality Control Batch | | | | | | | | | | |



ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

| BV Labs ID | | PXP303 | PXP304 | PXP305 | PXP306 | PXP307 | PXP308 | | |
|---------------|-------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|-----|----------|
| Sampling Date | | 2021/06/15 16:30 | 2021/06/15 12:40 | 2021/06/16 15:20 | 2021/06/16 09:50 | 2021/06/16 11:10 | 2021/06/16 09:10 | | |
| COC Number | | N/A | N/A | N/A | N/A | N/A | N/A | | |
| | UNITS | B-63 | B-67 | B-69 | C-1 | C-03 | C-07 | RDL | QC Batch |

| Metals | | | | | | | | | |
|----------------------------------|-------|-------|-------|-------|-------|-------|-------|------|---------|
| Acid Extractable Aluminum (Al) | mg/kg | 11000 | 9600 | 6700 | 29000 | 5000 | 8900 | 10 | 7445462 |
| Acid Extractable Antimony (Sb) | mg/kg | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 7445462 |
| Acid Extractable Arsenic (As) | mg/kg | 200 | 23 | 13 | 100 | 200 | 410 | 2.0 | 7445462 |
| Acid Extractable Barium (Ba) | mg/kg | 44 | 7.0 | 23 | 13 | 8.1 | 33 | 5.0 | 7445462 |
| Acid Extractable Beryllium (Be) | mg/kg | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 7445462 |
| Acid Extractable Bismuth (Bi) | mg/kg | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 7445462 |
| Acid Extractable Boron (B) | mg/kg | <50 | <50 | <50 | <50 | <50 | <50 | 50 | 7445462 |
| Acid Extractable Cadmium (Cd) | mg/kg | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | 0.30 | 7445462 |
| Acid Extractable Chromium (Cr) | mg/kg | 18 | 8.6 | 8.9 | 24 | 8.0 | 13 | 2.0 | 7445462 |
| Acid Extractable Cobalt (Co) | mg/kg | 5.4 | <1.0 | 1.2 | 2.1 | 1.1 | 4.0 | 1.0 | 7445462 |
| Acid Extractable Copper (Cu) | mg/kg | 12 | 2.2 | 4.0 | 4.8 | <2.0 | 11 | 2.0 | 7445462 |
| Acid Extractable Iron (Fe) | mg/kg | 17000 | 13000 | 3100 | 29000 | 14000 | 14000 | 50 | 7445462 |
| Acid Extractable Lead (Pb) | mg/kg | 9.5 | 5.1 | 15 | 13 | 4.6 | 17 | 0.50 | 7445462 |
| Acid Extractable Lithium (Li) | mg/kg | 19 | 11 | 4.6 | 12 | 3.0 | 15 | 2.0 | 7445462 |
| Acid Extractable Manganese (Mn) | mg/kg | 220 | 28 | 43 | 77 | 47 | 150 | 2.0 | 7445462 |
| Acid Extractable Mercury (Hg) | mg/kg | 0.12 | <0.10 | 0.17 | 0.22 | 0.10 | 0.22 | 0.10 | 7445462 |
| Acid Extractable Molybdenum (Mo) | mg/kg | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 7445462 |
| Acid Extractable Nickel (Ni) | mg/kg | 13 | <2.0 | 3.3 | 6.3 | 3.0 | 11 | 2.0 | 7445462 |
| Acid Extractable Rubidium (Rb) | mg/kg | 19 | 2.7 | 6.6 | 5.1 | 3.7 | 15 | 2.0 | 7445462 |
| Acid Extractable Selenium (Se) | mg/kg | <0.50 | 0.89 | 1.5 | 2.5 | 0.62 | <0.50 | 0.50 | 7445462 |
| Acid Extractable Silver (Ag) | mg/kg | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 7445462 |
| Acid Extractable Strontium (Sr) | mg/kg | <5.0 | <5.0 | 6.8 | <5.0 | <5.0 | <5.0 | 5.0 | 7445462 |
| Acid Extractable Thallium (Tl) | mg/kg | 0.13 | <0.10 | <0.10 | <0.10 | <0.10 | 0.11 | 0.10 | 7445462 |
| Acid Extractable Tin (Sn) | mg/kg | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1.2 | 1.0 | 7445462 |
| Acid Extractable Uranium (U) | mg/kg | 0.65 | 0.62 | 0.74 | 0.90 | 0.47 | 0.50 | 0.10 | 7445462 |
| Acid Extractable Vanadium (V) | mg/kg | 21 | 20 | 9.0 | 34 | 29 | 16 | 2.0 | 7445462 |
| Acid Extractable Zinc (Zn) | mg/kg | 32 | 5.3 | 8.3 | 13 | 5.8 | 31 | 5.0 | 7445462 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



BV Labs Job #: C1H4101
 Report Date: 2021/07/14

GHD Limited
 Client Project #: 11222385
 Site Location: GOLDBORO
 Your P.O. #: TO FOLLOW
 Sampler Initials: JV

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

| BV Labs ID | | PXP309 | | PXP310 | | PXP311 | | PXP312 | | |
|---------------|-------|---------------------|-----|---------------------|-----|---------------------|-----|---------------------|-----|----------|
| Sampling Date | | 2021/06/16 10:25 | | 2021/06/16 08:40 | | 2021/06/16 12:00 | | 2021/06/16 10:30 | | |
| COC Number | | N/A | | N/A | | | | | | |
| | UNITS | C-13 | RDL | C-18 | RDL | C-22 | RDL | D-02 | RDL | QC Batch |

| Metals | | | | | | | | | | |
|----------------------------------|-------|-------|------|-------|------|-------|------|-------|------|---------|
| Acid Extractable Aluminum (Al) | mg/kg | 22000 | 10 | 10000 | 10 | 14000 | 10 | 13000 | 10 | 7445462 |
| Acid Extractable Antimony (Sb) | mg/kg | 3.4 | 2.0 | <2.0 | 2.0 | 4.8 | 2.0 | 2.3 | 2.0 | 7445462 |
| Acid Extractable Arsenic (As) | mg/kg | 4900 | 200 | 860 | 20 | 8600 | 200 | 3300 | 20 | 7445462 |
| Acid Extractable Barium (Ba) | mg/kg | 140 | 5.0 | 45 | 5.0 | 71 | 5.0 | 68 | 5.0 | 7445462 |
| Acid Extractable Beryllium (Be) | mg/kg | <2.0 | 2.0 | <2.0 | 2.0 | <2.0 | 2.0 | <2.0 | 2.0 | 7445462 |
| Acid Extractable Bismuth (Bi) | mg/kg | <2.0 | 2.0 | <2.0 | 2.0 | <2.0 | 2.0 | <2.0 | 2.0 | 7445462 |
| Acid Extractable Boron (B) | mg/kg | <50 | 50 | <50 | 50 | <50 | 50 | <50 | 50 | 7445462 |
| Acid Extractable Cadmium (Cd) | mg/kg | 0.35 | 0.30 | <0.30 | 0.30 | <0.30 | 0.30 | <0.30 | 0.30 | 7445462 |
| Acid Extractable Chromium (Cr) | mg/kg | 33 | 2.0 | 29 | 2.0 | 21 | 2.0 | 21 | 2.0 | 7445462 |
| Acid Extractable Cobalt (Co) | mg/kg | 12 | 1.0 | 4.8 | 1.0 | 1.2 | 1.0 | 2.7 | 1.0 | 7445462 |
| Acid Extractable Copper (Cu) | mg/kg | 31 | 2.0 | 46 | 2.0 | 7.8 | 2.0 | 7.0 | 2.0 | 7445462 |
| Acid Extractable Iron (Fe) | mg/kg | 39000 | 50 | 53000 | 50 | 29000 | 50 | 25000 | 50 | 7445462 |
| Acid Extractable Lead (Pb) | mg/kg | 44 | 0.50 | 19 | 0.50 | 42 | 0.50 | 25 | 0.50 | 7445462 |
| Acid Extractable Lithium (Li) | mg/kg | 49 | 2.0 | 21 | 2.0 | 26 | 2.0 | 27 | 2.0 | 7445462 |
| Acid Extractable Manganese (Mn) | mg/kg | 620 | 2.0 | 270 | 2.0 | 330 | 2.0 | 350 | 2.0 | 7445462 |
| Acid Extractable Mercury (Hg) | mg/kg | 8.2 | 0.10 | 0.24 | 0.10 | 3.0 | 0.10 | 1.0 | 0.10 | 7445462 |
| Acid Extractable Molybdenum (Mo) | mg/kg | <2.0 | 2.0 | <2.0 | 2.0 | <2.0 | 2.0 | <2.0 | 2.0 | 7445462 |
| Acid Extractable Nickel (Ni) | mg/kg | 31 | 2.0 | 16 | 2.0 | 8.8 | 2.0 | 11 | 2.0 | 7445462 |
| Acid Extractable Rubidium (Rb) | mg/kg | 80 | 2.0 | 22 | 2.0 | 44 | 2.0 | 40 | 2.0 | 7445462 |
| Acid Extractable Selenium (Se) | mg/kg | <0.50 | 0.50 | <0.50 | 0.50 | <0.50 | 0.50 | <0.50 | 0.50 | 7445462 |
| Acid Extractable Silver (Ag) | mg/kg | <0.50 | 0.50 | <0.50 | 0.50 | <0.50 | 0.50 | <0.50 | 0.50 | 7445462 |
| Acid Extractable Strontium (Sr) | mg/kg | 15 | 5.0 | 5.6 | 5.0 | 12 | 5.0 | 13 | 5.0 | 7445462 |
| Acid Extractable Thallium (Tl) | mg/kg | 0.57 | 0.10 | 0.17 | 0.10 | 0.33 | 0.10 | 0.30 | 0.10 | 7445462 |
| Acid Extractable Tin (Sn) | mg/kg | 1.2 | 1.0 | 2.4 | 1.0 | <1.0 | 1.0 | <1.0 | 1.0 | 7445462 |
| Acid Extractable Uranium (U) | mg/kg | 0.72 | 0.10 | 0.44 | 0.10 | 0.51 | 0.10 | 0.50 | 0.10 | 7445462 |
| Acid Extractable Vanadium (V) | mg/kg | 39 | 2.0 | 21 | 2.0 | 23 | 2.0 | 22 | 2.0 | 7445462 |
| Acid Extractable Zinc (Zn) | mg/kg | 130 | 5.0 | 140 | 5.0 | 36 | 5.0 | 51 | 5.0 | 7445462 |

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch



BV Labs Job #: C1H4101
 Report Date: 2021/07/14

GHD Limited
 Client Project #: 11222385
 Site Location: GOLDBORO
 Your P.O. #: TO FOLLOW
 Sampler Initials: JV

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

| BV Labs ID | | PXP313 | | PXP314 | PXP315 | PXP316 | PXP317 | | PXP318 | | |
|---------------|-------|---------------------|-----|---------------------|---------------------|---------------------|---------------------|-----|---------------------|-----|----------|
| Sampling Date | | 2021/06/16 11:00 | | 2021/06/16 14:35 | 2021/06/16 13:45 | 2021/06/16 13:20 | 2021/06/16 11:25 | | 2021/06/16 16:35 | | |
| COC Number | | | | | | | | | | | |
| | UNITS | D-07 | RDL | D-08 | D-09 | D-12 | D-19 | RDL | D-21 | RDL | QC Batch |

| Metals | | | | | | | | | | | |
|----------------------------------|-------|-------|------|-------|-------|-------|-------|------|-------|------|---------|
| Acid Extractable Aluminum (Al) | mg/kg | 12000 | 10 | 4300 | 22000 | 5100 | 7900 | 10 | 13000 | 10 | 7446049 |
| Acid Extractable Antimony (Sb) | mg/kg | 8.9 | 2.0 | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 18 | 2.0 | 7446049 |
| Acid Extractable Arsenic (As) | mg/kg | 11000 | 200 | 380 | 110 | 28 | 220 | 2.0 | 9700 | 200 | 7446049 |
| Acid Extractable Barium (Ba) | mg/kg | 67 | 5.0 | 8.3 | 13 | 20 | 14 | 5.0 | 70 | 5.0 | 7446049 |
| Acid Extractable Beryllium (Be) | mg/kg | <2.0 | 2.0 | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | <2.0 | 2.0 | 7446049 |
| Acid Extractable Bismuth (Bi) | mg/kg | <2.0 | 2.0 | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | <2.0 | 2.0 | 7446049 |
| Acid Extractable Boron (B) | mg/kg | <50 | 50 | <50 | <50 | <50 | <50 | 50 | <50 | 50 | 7446049 |
| Acid Extractable Cadmium (Cd) | mg/kg | <0.30 | 0.30 | <0.30 | <0.30 | <0.30 | <0.30 | 0.30 | 0.42 | 0.30 | 7446049 |
| Acid Extractable Chromium (Cr) | mg/kg | 19 | 2.0 | 5.9 | 26 | <2.0 | 11 | 2.0 | 22 | 2.0 | 7446049 |
| Acid Extractable Cobalt (Co) | mg/kg | 1.0 | 1.0 | <1.0 | 2.6 | <1.0 | 1.8 | 1.0 | 15 | 1.0 | 7446049 |
| Acid Extractable Copper (Cu) | mg/kg | 7.6 | 2.0 | <2.0 | 4.2 | 2.7 | <2.0 | 2.0 | 39 | 2.0 | 7446049 |
| Acid Extractable Iron (Fe) | mg/kg | 29000 | 50 | 15000 | 39000 | 1900 | 7000 | 50 | 33000 | 50 | 7446049 |
| Acid Extractable Lead (Pb) | mg/kg | 52 | 0.50 | 6.3 | 9.9 | 14 | 7.5 | 0.50 | 120 | 0.50 | 7446049 |
| Acid Extractable Lithium (Li) | mg/kg | 21 | 2.0 | <2.0 | 12 | <2.0 | 9.0 | 2.0 | 25 | 2.0 | 7446049 |
| Acid Extractable Manganese (Mn) | mg/kg | 290 | 2.0 | 33 | 100 | 14 | 93 | 2.0 | 320 | 2.0 | 7446049 |
| Acid Extractable Mercury (Hg) | mg/kg | 2.9 | 0.10 | 0.12 | 0.16 | 0.24 | 0.21 | 0.10 | 9.6 | 0.10 | 7446049 |
| Acid Extractable Molybdenum (Mo) | mg/kg | <2.0 | 2.0 | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | <2.0 | 2.0 | 7446049 |
| Acid Extractable Nickel (Ni) | mg/kg | 7.9 | 2.0 | 2.3 | 7.3 | 2.2 | 6.1 | 2.0 | 30 | 2.0 | 7446049 |
| Acid Extractable Rubidium (Rb) | mg/kg | 40 | 2.0 | 2.9 | 6.5 | <2.0 | 7.6 | 2.0 | 40 | 2.0 | 7446049 |
| Acid Extractable Selenium (Se) | mg/kg | <0.50 | 0.50 | <0.50 | 2.2 | 1.7 | <0.50 | 0.50 | <0.50 | 0.50 | 7446049 |
| Acid Extractable Silver (Ag) | mg/kg | <0.50 | 0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 0.64 | 0.50 | 7446049 |
| Acid Extractable Strontium (Sr) | mg/kg | 8.8 | 5.0 | <5.0 | <5.0 | 14 | <5.0 | 5.0 | 13 | 5.0 | 7446049 |
| Acid Extractable Thallium (Tl) | mg/kg | 0.33 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 0.10 | 0.38 | 0.10 | 7446049 |
| Acid Extractable Tin (Sn) | mg/kg | <1.0 | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 1.7 | 1.0 | 7446049 |
| Acid Extractable Uranium (U) | mg/kg | 0.48 | 0.10 | 0.48 | 0.72 | 0.19 | 0.58 | 0.10 | 0.55 | 0.10 | 7446049 |
| Acid Extractable Vanadium (V) | mg/kg | 21 | 2.0 | 30 | 47 | 2.7 | 12 | 2.0 | 22 | 2.0 | 7446049 |
| Acid Extractable Zinc (Zn) | mg/kg | 39 | 5.0 | <5.0 | 17 | 6.4 | 14 | 5.0 | 93 | 5.0 | 7446049 |

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch



BUREAU
VERITAS

BV Labs Job #: C1H4101
Report Date: 2021/07/14

GHD Limited
Client Project #: 11222385
Site Location: GOLDBORO
Your P.O. #: TO FOLLOW
Sampler Initials: JV

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

| BV Labs ID | | PXP319 | PXP320 | PXP334 | | PXP335 | | PXP336 | | |
|--|-------|---------------------|---------------------|---------------------|----------|---------------------|------|---------------------|------|----------|
| Sampling Date | | 2021/06/16 16:20 | 2021/06/16 11:45 | 2021/06/16 16:11 | | 2021/06/16 15:15 | | 2021/06/17 08:35 | | |
| COC Number | | | | N/A | | N/A | | N/A | | |
| | UNITS | D-22 | D-34 | E-05 | QC Batch | E-08 | RDL | E-11 | RDL | QC Batch |
| Metals | | | | | | | | | | |
| Acid Extractable Aluminum (Al) | mg/kg | 13000 | 9200 | 3900 | 7446049 | 10000 | 10 | 10000 | 10 | 7445460 |
| Acid Extractable Antimony (Sb) | mg/kg | <2.0 | <2.0 | <2.0 | 7446049 | <2.0 | 2.0 | 5.7 | 2.0 | 7445460 |
| Acid Extractable Arsenic (As) | mg/kg | 24 | 8.3 | 26 | 7446049 | 99 | 2.0 | 9600 | 200 | 7445460 |
| Acid Extractable Barium (Ba) | mg/kg | 23 | 18 | 11 | 7446049 | 13 | 5.0 | 57 | 5.0 | 7445460 |
| Acid Extractable Beryllium (Be) | mg/kg | <2.0 | <2.0 | <2.0 | 7446049 | <2.0 | 2.0 | <2.0 | 2.0 | 7445460 |
| Acid Extractable Bismuth (Bi) | mg/kg | <2.0 | <2.0 | <2.0 | 7446049 | <2.0 | 2.0 | <2.0 | 2.0 | 7445460 |
| Acid Extractable Boron (B) | mg/kg | <50 | <50 | <50 | 7446049 | <50 | 50 | <50 | 50 | 7445460 |
| Acid Extractable Cadmium (Cd) | mg/kg | <0.30 | <0.30 | <0.30 | 7446049 | <0.30 | 0.30 | <0.30 | 0.30 | 7445460 |
| Acid Extractable Chromium (Cr) | mg/kg | 6.4 | 13 | 6.3 | 7446049 | 15 | 2.0 | 17 | 2.0 | 7445460 |
| Acid Extractable Cobalt (Co) | mg/kg | <1.0 | 2.1 | <1.0 | 7446049 | 2.9 | 1.0 | 1.1 | 1.0 | 7445460 |
| Acid Extractable Copper (Cu) | mg/kg | 8.3 | <2.0 | <2.0 | 7446049 | 3.1 | 2.0 | 12 | 2.0 | 7445460 |
| Acid Extractable Iron (Fe) | mg/kg | 1200 | 7100 | 3300 | 7446049 | 21000 | 50 | 27000 | 50 | 7445460 |
| Acid Extractable Lead (Pb) | mg/kg | 15 | 6.8 | 7.8 | 7446049 | 7.3 | 0.50 | 31 | 0.50 | 7445460 |
| Acid Extractable Lithium (Li) | mg/kg | <2.0 | 12 | 2.8 | 7446049 | 7.8 | 2.0 | 18 | 2.0 | 7445460 |
| Acid Extractable Manganese (Mn) | mg/kg | 15 | 96 | 45 | 7446049 | 110 | 2.0 | 270 | 2.0 | 7445460 |
| Acid Extractable Mercury (Hg) | mg/kg | 0.48 | <0.10 | 0.17 | 7446049 | <0.10 | 0.10 | 8.5 | 0.10 | 7445460 |
| Acid Extractable Molybdenum (Mo) | mg/kg | <2.0 | <2.0 | <2.0 | 7446049 | <2.0 | 2.0 | <2.0 | 2.0 | 7445460 |
| Acid Extractable Nickel (Ni) | mg/kg | 2.8 | 7.1 | 2.7 | 7446049 | 7.9 | 2.0 | 6.6 | 2.0 | 7445460 |
| Acid Extractable Rubidium (Rb) | mg/kg | 2.5 | 8.0 | 4.2 | 7446049 | 6.8 | 2.0 | 36 | 2.0 | 7445460 |
| Acid Extractable Selenium (Se) | mg/kg | 3.7 | <0.50 | <0.50 | 7446049 | 0.94 | 0.50 | <0.50 | 0.50 | 7445460 |
| Acid Extractable Silver (Ag) | mg/kg | <0.50 | <0.50 | <0.50 | 7446049 | <0.50 | 0.50 | <0.50 | 0.50 | 7445460 |
| Acid Extractable Strontium (Sr) | mg/kg | 22 | <5.0 | <5.0 | 7446049 | <5.0 | 5.0 | 6.3 | 5.0 | 7445460 |
| Acid Extractable Thallium (Tl) | mg/kg | <0.10 | <0.10 | <0.10 | 7446049 | <0.10 | 0.10 | 0.31 | 0.10 | 7445460 |
| Acid Extractable Tin (Sn) | mg/kg | <1.0 | <1.0 | <1.0 | 7446049 | <1.0 | 1.0 | <1.0 | 1.0 | 7445460 |
| Acid Extractable Uranium (U) | mg/kg | 1.5 | 0.53 | 0.49 | 7446049 | 0.62 | 0.10 | 0.38 | 0.10 | 7445460 |
| Acid Extractable Vanadium (V) | mg/kg | 7.4 | 12 | 6.8 | 7446049 | 28 | 2.0 | 19 | 2.0 | 7445460 |
| Acid Extractable Zinc (Zn) | mg/kg | <5.0 | 14 | 5.1 | 7446049 | 19 | 5.0 | 31 | 5.0 | 7445460 |
| RDL = Reportable Detection Limit QC Batch = Quality Control Batch | | | | | | | | | | |



BV Labs Job #: C1H4101
 Report Date: 2021/07/14

GHD Limited
 Client Project #: 11222385
 Site Location: GOLDBORO
 Your P.O. #: TO FOLLOW
 Sampler Initials: JV

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

| BV Labs ID | | PXP337 | | | PXP338 | | | PXP339 | | | PXP340 | | |
|---------------|-------|---------------------|-----|----------|---------------------|-----|----------|---------------------|-----|------|---------------------|----------|--|
| Sampling Date | | 2021/06/17 09:15 | | | 2021/06/16 14:15 | | | 2021/06/17 08:55 | | | 2021/06/17 09:15 | | |
| COC Number | | N/A | | | N/A | | | N/A | | | N/A | | |
| | UNITS | E-22 | RDL | QC Batch | E-31 | RDL | QC Batch | E-33 | RDL | E-35 | RDL | QC Batch | |

| Metals | | | | | | | | | | | | |
|----------------------------------|-------|-------|------|---------|-------|------|---------|-------|------|-------|------|---------|
| Acid Extractable Aluminum (Al) | mg/kg | 9000 | 10 | 7445462 | 18000 | 10 | 7445460 | 16000 | 10 | 9700 | 10 | 7445462 |
| Acid Extractable Antimony (Sb) | mg/kg | 14 | 2.0 | 7445462 | 3.0 | 2.0 | 7445460 | <2.0 | 2.0 | 20 | 2.0 | 7445462 |
| Acid Extractable Arsenic (As) | mg/kg | 25000 | 200 | 7445462 | 790 | 20 | 7445460 | 84 | 2.0 | 28000 | 200 | 7445462 |
| Acid Extractable Barium (Ba) | mg/kg | 52 | 5.0 | 7445462 | 97 | 5.0 | 7445460 | 7.8 | 5.0 | 47 | 5.0 | 7445462 |
| Acid Extractable Beryllium (Be) | mg/kg | <2.0 | 2.0 | 7445462 | <2.0 | 2.0 | 7445460 | <2.0 | 2.0 | <2.0 | 2.0 | 7445462 |
| Acid Extractable Bismuth (Bi) | mg/kg | <2.0 | 2.0 | 7445462 | <2.0 | 2.0 | 7445460 | <2.0 | 2.0 | <2.0 | 2.0 | 7445462 |
| Acid Extractable Boron (B) | mg/kg | <50 | 50 | 7445462 | <50 | 50 | 7445460 | <50 | 50 | <50 | 50 | 7445462 |
| Acid Extractable Cadmium (Cd) | mg/kg | <0.30 | 0.30 | 7445462 | <0.30 | 0.30 | 7445460 | <0.30 | 0.30 | <0.30 | 0.30 | 7445462 |
| Acid Extractable Chromium (Cr) | mg/kg | 17 | 2.0 | 7445462 | 27 | 2.0 | 7445460 | 17 | 2.0 | 16 | 2.0 | 7445462 |
| Acid Extractable Cobalt (Co) | mg/kg | <1.0 | 1.0 | 7445462 | 6.1 | 1.0 | 7445460 | 1.3 | 1.0 | 2.7 | 1.0 | 7445462 |
| Acid Extractable Copper (Cu) | mg/kg | 6.9 | 2.0 | 7445462 | 21 | 2.0 | 7445460 | 2.3 | 2.0 | 8.2 | 2.0 | 7445462 |
| Acid Extractable Iron (Fe) | mg/kg | 36000 | 50 | 7445462 | 28000 | 50 | 7445460 | 33000 | 50 | 40000 | 50 | 7445462 |
| Acid Extractable Lead (Pb) | mg/kg | 86 | 0.50 | 7445462 | 36 | 0.50 | 7445460 | 8.9 | 0.50 | 96 | 0.50 | 7445462 |
| Acid Extractable Lithium (Li) | mg/kg | 13 | 2.0 | 7445462 | 39 | 2.0 | 7445460 | 6.1 | 2.0 | 14 | 2.0 | 7445462 |
| Acid Extractable Manganese (Mn) | mg/kg | 180 | 2.0 | 7445462 | 500 | 2.0 | 7445460 | 49 | 2.0 | 200 | 2.0 | 7445462 |
| Acid Extractable Mercury (Hg) | mg/kg | 11 | 0.10 | 7445462 | 1.3 | 0.10 | 7445460 | <0.10 | 0.10 | 15 | 0.10 | 7445462 |
| Acid Extractable Molybdenum (Mo) | mg/kg | <2.0 | 2.0 | 7445462 | <2.0 | 2.0 | 7445460 | <2.0 | 2.0 | <2.0 | 2.0 | 7445462 |
| Acid Extractable Nickel (Ni) | mg/kg | 4.9 | 2.0 | 7445462 | 19 | 2.0 | 7445460 | 3.8 | 2.0 | 9.4 | 2.0 | 7445462 |
| Acid Extractable Rubidium (Rb) | mg/kg | 28 | 2.0 | 7445462 | 65 | 2.0 | 7445460 | 3.6 | 2.0 | 27 | 2.0 | 7445462 |
| Acid Extractable Selenium (Se) | mg/kg | <0.50 | 0.50 | 7445462 | <0.50 | 0.50 | 7445460 | 1.5 | 0.50 | <0.50 | 0.50 | 7445462 |
| Acid Extractable Silver (Ag) | mg/kg | 1.1 | 0.50 | 7445462 | <0.50 | 0.50 | 7445460 | <0.50 | 0.50 | 0.87 | 0.50 | 7445462 |
| Acid Extractable Strontium (Sr) | mg/kg | <5.0 | 5.0 | 7445462 | 14 | 5.0 | 7445460 | <5.0 | 5.0 | 6.5 | 5.0 | 7445462 |
| Acid Extractable Thallium (Tl) | mg/kg | 0.28 | 0.10 | 7445462 | 0.47 | 0.10 | 7445460 | <0.10 | 0.10 | 0.27 | 0.10 | 7445462 |
| Acid Extractable Tin (Sn) | mg/kg | <1.0 | 1.0 | 7445462 | <1.0 | 1.0 | 7445460 | 1.1 | 1.0 | <1.0 | 1.0 | 7445462 |
| Acid Extractable Uranium (U) | mg/kg | 0.41 | 0.10 | 7445462 | 0.80 | 0.10 | 7445460 | 0.55 | 0.10 | 0.42 | 0.10 | 7445462 |
| Acid Extractable Vanadium (V) | mg/kg | 20 | 2.0 | 7445462 | 31 | 2.0 | 7445460 | 56 | 2.0 | 19 | 2.0 | 7445462 |
| Acid Extractable Zinc (Zn) | mg/kg | 22 | 5.0 | 7445462 | 78 | 5.0 | 7445460 | 7.3 | 5.0 | 31 | 5.0 | 7445462 |

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch



BUREAU
VERITAS

BV Labs Job #: C1H4101
Report Date: 2021/07/14

GHD Limited
Client Project #: 11222385
Site Location: GOLDBORO
Your P.O. #: TO FOLLOW
Sampler Initials: JV

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

| BV Labs ID | | PXP340 | | PXP341 | | PXP342 | | PXP343 | | |
|---------------|-------|---------------------|----------|---------------------|-----|---------------------|-----|---------------------|-----|----------|
| Sampling Date | | 2021/06/17 09:15 | | 2021/06/17 10:05 | | 2021/06/16 13:30 | | 2021/06/17 09:30 | | |
| COC Number | | N/A | | N/A | | N/A | | N/A | | |
| | UNITS | E-35 Lab-Dup | QC Batch | E-40 | RDL | E-45 | RDL | E-46 | RDL | QC Batch |

| Metals | | | | | | | | | | |
|----------------------------------|-------|-------|---------|-------|------|-------|------|-------|------|---------|
| Acid Extractable Aluminum (Al) | mg/kg | 9500 | 7445462 | 9500 | 10 | 7800 | 10 | 9900 | 10 | 7446049 |
| Acid Extractable Antimony (Sb) | mg/kg | 21 | 7445462 | 7.5 | 2.0 | <2.0 | 2.0 | <2.0 | 2.0 | 7446049 |
| Acid Extractable Arsenic (As) | mg/kg | 30000 | 7445462 | 22000 | 200 | 180 | 2.0 | 940 | 20 | 7446049 |
| Acid Extractable Barium (Ba) | mg/kg | 47 | 7445462 | 71 | 5.0 | 39 | 5.0 | 44 | 5.0 | 7446049 |
| Acid Extractable Beryllium (Be) | mg/kg | <2.0 | 7445462 | <2.0 | 2.0 | <2.0 | 2.0 | <2.0 | 2.0 | 7446049 |
| Acid Extractable Bismuth (Bi) | mg/kg | <2.0 | 7445462 | <2.0 | 2.0 | <2.0 | 2.0 | <2.0 | 2.0 | 7446049 |
| Acid Extractable Boron (B) | mg/kg | <50 | 7445462 | <50 | 50 | <50 | 50 | <50 | 50 | 7446049 |
| Acid Extractable Cadmium (Cd) | mg/kg | <0.30 | 7445462 | <0.30 | 0.30 | <0.30 | 0.30 | <0.30 | 0.30 | 7446049 |
| Acid Extractable Chromium (Cr) | mg/kg | 16 | 7445462 | 17 | 2.0 | 4.4 | 2.0 | 15 | 2.0 | 7446049 |
| Acid Extractable Cobalt (Co) | mg/kg | 2.7 | 7445462 | 1.9 | 1.0 | 2.4 | 1.0 | 7.1 | 1.0 | 7446049 |
| Acid Extractable Copper (Cu) | mg/kg | 8.5 | 7445462 | 7.7 | 2.0 | 11 | 2.0 | 24 | 2.0 | 7446049 |
| Acid Extractable Iron (Fe) | mg/kg | 41000 | 7445462 | 45000 | 50 | 4700 | 50 | 18000 | 50 | 7446049 |
| Acid Extractable Lead (Pb) | mg/kg | 100 | 7445462 | 75 | 0.50 | 15 | 0.50 | 37 | 0.50 | 7446049 |
| Acid Extractable Lithium (Li) | mg/kg | 13 | 7445462 | 13 | 2.0 | <2.0 | 2.0 | 13 | 2.0 | 7446049 |
| Acid Extractable Manganese (Mn) | mg/kg | 200 | 7445462 | 190 | 2.0 | 210 | 2.0 | 290 | 2.0 | 7446049 |
| Acid Extractable Mercury (Hg) | mg/kg | 16 | 7445462 | 11 | 0.10 | 0.39 | 0.10 | 0.23 | 0.10 | 7446049 |
| Acid Extractable Molybdenum (Mo) | mg/kg | <2.0 | 7445462 | <2.0 | 2.0 | <2.0 | 2.0 | <2.0 | 2.0 | 7446049 |
| Acid Extractable Nickel (Ni) | mg/kg | 9.4 | 7445462 | 7.6 | 2.0 | 6.9 | 2.0 | 14 | 2.0 | 7446049 |
| Acid Extractable Rubidium (Rb) | mg/kg | 26 | 7445462 | 21 | 2.0 | <2.0 | 2.0 | 17 | 2.0 | 7446049 |
| Acid Extractable Selenium (Se) | mg/kg | <0.50 | 7445462 | 0.77 | 0.50 | 3.0 | 0.50 | 0.58 | 0.50 | 7446049 |
| Acid Extractable Silver (Ag) | mg/kg | 0.75 | 7445462 | 0.85 | 0.50 | <0.50 | 0.50 | 1.1 | 0.50 | 7446049 |
| Acid Extractable Strontium (Sr) | mg/kg | 6.1 | 7445462 | 10 | 5.0 | 45 | 5.0 | 12 | 5.0 | 7446049 |
| Acid Extractable Thallium (Tl) | mg/kg | 0.28 | 7445462 | 0.22 | 0.10 | <0.10 | 0.10 | 0.15 | 0.10 | 7446049 |
| Acid Extractable Tin (Sn) | mg/kg | <1.0 | 7445462 | <1.0 | 1.0 | <1.0 | 1.0 | <1.0 | 1.0 | 7446049 |
| Acid Extractable Uranium (U) | mg/kg | 0.44 | 7445462 | 0.49 | 0.10 | 1.2 | 0.10 | 0.61 | 0.10 | 7446049 |
| Acid Extractable Vanadium (V) | mg/kg | 19 | 7445462 | 18 | 2.0 | 4.5 | 2.0 | 22 | 2.0 | 7446049 |
| Acid Extractable Zinc (Zn) | mg/kg | 29 | 7445462 | 23 | 5.0 | 49 | 5.0 | 46 | 5.0 | 7446049 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate



BUREAU
VERITAS

BV Labs Job #: C1H4101
Report Date: 2021/07/14

GHD Limited
Client Project #: 11222385
Site Location: GOLDBORO
Your P.O. #: TO FOLLOW
Sampler Initials: JV

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

| BV Labs ID | | PXP344 | PXP344 | | PXP345 | PXP346 | | PXP347 | PXP348 | | |
|---------------|-------|---------------------|---------------------|-----|---------------------|---------------------|-----|---------------------|---------------------|-----|----------|
| Sampling Date | | 2021/06/17 10:20 | 2021/06/17 10:20 | | 2021/06/17 11:00 | 2021/06/17 09:45 | | 2021/06/17 10:20 | 2021/06/16 08:45 | | |
| COC Number | | N/A | N/A | | N/A | N/A | | N/A | N/A | | |
| | UNITS | E-47 | E-47 Lab-Dup | RDL | E-55 | E-56 | RDL | E-62 | E-68 | RDL | QC Batch |

| Metals | | | | | | | | | | | |
|----------------------------------|-------|-------|-------|------|-------|-------|------|-------|-------|------|---------|
| Acid Extractable Aluminum (Al) | mg/kg | 9800 | 9700 | 10 | 18000 | 23000 | 10 | 1200 | 1900 | 10 | 7446049 |
| Acid Extractable Antimony (Sb) | mg/kg | 16 | 15 | 2.0 | <2.0 | <2.0 | 2.0 | <2.0 | <2.0 | 2.0 | 7446049 |
| Acid Extractable Arsenic (As) | mg/kg | 20000 | 18000 | 200 | 580 | 1600 | 20 | 15 | 12 | 2.0 | 7446049 |
| Acid Extractable Barium (Ba) | mg/kg | 45 | 44 | 5.0 | 87 | 140 | 5.0 | 17 | 8.6 | 5.0 | 7446049 |
| Acid Extractable Beryllium (Be) | mg/kg | <2.0 | <2.0 | 2.0 | <2.0 | <2.0 | 2.0 | <2.0 | <2.0 | 2.0 | 7446049 |
| Acid Extractable Bismuth (Bi) | mg/kg | <2.0 | <2.0 | 2.0 | <2.0 | <2.0 | 2.0 | <2.0 | <2.0 | 2.0 | 7446049 |
| Acid Extractable Boron (B) | mg/kg | <50 | <50 | 50 | <50 | <50 | 50 | <50 | <50 | 50 | 7446049 |
| Acid Extractable Cadmium (Cd) | mg/kg | <0.30 | <0.30 | 0.30 | <0.30 | <0.30 | 0.30 | <0.30 | <0.30 | 0.30 | 7446049 |
| Acid Extractable Chromium (Cr) | mg/kg | 18 | 17 | 2.0 | 24 | 34 | 2.0 | <2.0 | 3.0 | 2.0 | 7446049 |
| Acid Extractable Cobalt (Co) | mg/kg | 3.0 | 3.1 | 1.0 | 1.6 | 5.2 | 1.0 | <1.0 | <1.0 | 1.0 | 7446049 |
| Acid Extractable Copper (Cu) | mg/kg | 5.8 | 5.6 | 2.0 | 13 | 30 | 2.0 | 2.9 | <2.0 | 2.0 | 7446049 |
| Acid Extractable Iron (Fe) | mg/kg | 41000 | 38000 | 50 | 23000 | 37000 | 50 | 1000 | 1600 | 50 | 7446049 |
| Acid Extractable Lead (Pb) | mg/kg | 64 | 60 | 0.50 | 28 | 34 | 0.50 | 11 | 6.3 | 0.50 | 7446049 |
| Acid Extractable Lithium (Li) | mg/kg | 11 | 12 | 2.0 | 31 | 46 | 2.0 | <2.0 | <2.0 | 2.0 | 7446049 |
| Acid Extractable Manganese (Mn) | mg/kg | 180 | 180 | 2.0 | 370 | 600 | 2.0 | 32 | 26 | 2.0 | 7446049 |
| Acid Extractable Mercury (Hg) | mg/kg | 6.6 | 5.0 | 0.10 | 5.1 | 4.5 | 0.10 | 0.21 | <0.10 | 0.10 | 7446049 |
| Acid Extractable Molybdenum (Mo) | mg/kg | <2.0 | <2.0 | 2.0 | <2.0 | <2.0 | 2.0 | <2.0 | <2.0 | 2.0 | 7446049 |
| Acid Extractable Nickel (Ni) | mg/kg | 9.0 | 9.0 | 2.0 | 11 | 22 | 2.0 | <2.0 | <2.0 | 2.0 | 7446049 |
| Acid Extractable Rubidium (Rb) | mg/kg | 14 | 13 | 2.0 | 46 | 78 | 2.0 | <2.0 | 3.2 | 2.0 | 7446049 |
| Acid Extractable Selenium (Se) | mg/kg | 1.2 | 1.1 | 0.50 | <0.50 | <0.50 | 0.50 | 1.3 | <0.50 | 0.50 | 7446049 |
| Acid Extractable Silver (Ag) | mg/kg | 0.88 | 0.65 | 0.50 | <0.50 | <0.50 | 0.50 | <0.50 | <0.50 | 0.50 | 7446049 |
| Acid Extractable Strontium (Sr) | mg/kg | 11 | 9.8 | 5.0 | 15 | 21 | 5.0 | 27 | <5.0 | 5.0 | 7446049 |
| Acid Extractable Thallium (Tl) | mg/kg | 0.15 | 0.14 | 0.10 | 0.37 | 0.57 | 0.10 | <0.10 | <0.10 | 0.10 | 7446049 |
| Acid Extractable Tin (Sn) | mg/kg | 1.3 | 1.2 | 1.0 | <1.0 | <1.0 | 1.0 | 2.1 | <1.0 | 1.0 | 7446049 |
| Acid Extractable Uranium (U) | mg/kg | 0.57 | 0.52 | 0.10 | 1.7 | 1.2 | 0.10 | <0.10 | 0.26 | 0.10 | 7446049 |
| Acid Extractable Vanadium (V) | mg/kg | 21 | 20 | 2.0 | 26 | 38 | 2.0 | <2.0 | 3.0 | 2.0 | 7446049 |
| Acid Extractable Zinc (Zn) | mg/kg | 23 | 23 | 5.0 | 42 | 92 | 5.0 | 26 | <5.0 | 5.0 | 7446049 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate



BUREAU
VERITAS

BV Labs Job #: C1H4101
Report Date: 2021/07/14

GHD Limited
Client Project #: 11222385
Site Location: GOLDBORO
Your P.O. #: TO FOLLOW
Sampler Initials: JV

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

| BV Labs ID | | PXP349 | | PXP350 | | | PXP351 | | PXP352 | | |
|---------------|-------|---------------------|----------|------------|-----|----------|------------|-----|------------|-----|----------|
| Sampling Date | | 2021/06/16 08:55 | | 2021/06/14 | | | 2021/06/15 | | 2021/06/16 | | |
| COC Number | | N/A | | N/A | | | N/A | | N/A | | |
| | UNITS | E-74 | QC Batch | DUP-A | RDL | QC Batch | DUP-B | RDL | DUP-C | RDL | QC Batch |

| Metals | | | | | | | | | | | |
|----------------------------------|-------|-------|---------|-------|------|---------|-------|------|-------|------|---------|
| Acid Extractable Aluminum (Al) | mg/kg | 3400 | 7446049 | 19000 | 10 | 7435136 | 13000 | 10 | 6800 | 10 | 7446049 |
| Acid Extractable Antimony (Sb) | mg/kg | <2.0 | 7446049 | <2.0 | 2.0 | 7435136 | 5.1 | 2.0 | <2.0 | 2.0 | 7446049 |
| Acid Extractable Arsenic (As) | mg/kg | 3.0 | 7446049 | 15 | 2.0 | 7435136 | 11000 | 200 | 250 | 2.0 | 7446049 |
| Acid Extractable Barium (Ba) | mg/kg | 6.5 | 7446049 | 27 | 5.0 | 7435136 | 72 | 5.0 | 13 | 5.0 | 7446049 |
| Acid Extractable Beryllium (Be) | mg/kg | <2.0 | 7446049 | <2.0 | 2.0 | 7435136 | <2.0 | 2.0 | <2.0 | 2.0 | 7446049 |
| Acid Extractable Bismuth (Bi) | mg/kg | <2.0 | 7446049 | <2.0 | 2.0 | 7435136 | <2.0 | 2.0 | <2.0 | 2.0 | 7446049 |
| Acid Extractable Boron (B) | mg/kg | <50 | 7446049 | <50 | 50 | 7435136 | <50 | 50 | <50 | 50 | 7446049 |
| Acid Extractable Cadmium (Cd) | mg/kg | <0.30 | 7446049 | <0.30 | 0.30 | 7435136 | <0.30 | 0.30 | <0.30 | 0.30 | 7446049 |
| Acid Extractable Chromium (Cr) | mg/kg | 3.8 | 7446049 | 24 | 2.0 | 7435136 | 20 | 2.0 | 11 | 2.0 | 7446049 |
| Acid Extractable Cobalt (Co) | mg/kg | <1.0 | 7446049 | 4.5 | 1.0 | 7435136 | 1.4 | 1.0 | 1.7 | 1.0 | 7446049 |
| Acid Extractable Copper (Cu) | mg/kg | <2.0 | 7446049 | 9.1 | 2.0 | 7435136 | 7.6 | 2.0 | 2.3 | 2.0 | 7446049 |
| Acid Extractable Iron (Fe) | mg/kg | 1700 | 7446049 | 19000 | 50 | 7435136 | 31000 | 50 | 15000 | 50 | 7446049 |
| Acid Extractable Lead (Pb) | mg/kg | 4.7 | 7446049 | 9.3 | 0.50 | 7435136 | 48 | 0.50 | 6.5 | 0.50 | 7446049 |
| Acid Extractable Lithium (Li) | mg/kg | <2.0 | 7446049 | 19 | 2.0 | 7435136 | 22 | 2.0 | 5.0 | 2.0 | 7446049 |
| Acid Extractable Manganese (Mn) | mg/kg | 30 | 7446049 | 160 | 2.0 | 7435136 | 310 | 2.0 | 77 | 2.0 | 7446049 |
| Acid Extractable Mercury (Hg) | mg/kg | <0.10 | 7446049 | <0.10 | 0.10 | 7435136 | 4.5 | 0.10 | 0.18 | 0.10 | 7446049 |
| Acid Extractable Molybdenum (Mo) | mg/kg | <2.0 | 7446049 | <2.0 | 2.0 | 7435136 | <2.0 | 2.0 | <2.0 | 2.0 | 7446049 |
| Acid Extractable Nickel (Ni) | mg/kg | <2.0 | 7446049 | 13 | 2.0 | 7435136 | 8.0 | 2.0 | 4.8 | 2.0 | 7446049 |
| Acid Extractable Rubidium (Rb) | mg/kg | 3.4 | 7446049 | 11 | 2.0 | 7435136 | 43 | 2.0 | 5.1 | 2.0 | 7446049 |
| Acid Extractable Selenium (Se) | mg/kg | <0.50 | 7446049 | 0.87 | 0.50 | 7435136 | <0.50 | 0.50 | 0.61 | 0.50 | 7446049 |
| Acid Extractable Silver (Ag) | mg/kg | <0.50 | 7446049 | <0.50 | 0.50 | 7435136 | <0.50 | 0.50 | <0.50 | 0.50 | 7446049 |
| Acid Extractable Strontium (Sr) | mg/kg | <5.0 | 7446049 | <5.0 | 5.0 | 7435136 | <5.0 | 5.0 | <5.0 | 5.0 | 7446049 |
| Acid Extractable Thallium (Tl) | mg/kg | <0.10 | 7446049 | 0.11 | 0.10 | 7435136 | 0.33 | 0.10 | <0.10 | 0.10 | 7446049 |
| Acid Extractable Tin (Sn) | mg/kg | <1.0 | 7446049 | <1.0 | 1.0 | 7435136 | <1.0 | 1.0 | <1.0 | 1.0 | 7446049 |
| Acid Extractable Uranium (U) | mg/kg | 0.44 | 7446049 | 0.81 | 0.10 | 7435136 | 0.39 | 0.10 | 0.56 | 0.10 | 7446049 |
| Acid Extractable Vanadium (V) | mg/kg | 4.7 | 7446049 | 24 | 2.0 | 7435136 | 24 | 2.0 | 31 | 2.0 | 7446049 |
| Acid Extractable Zinc (Zn) | mg/kg | <5.0 | 7446049 | 30 | 5.0 | 7435136 | 39 | 5.0 | 9.8 | 5.0 | 7446049 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

| BV Labs ID | | PXP353 | | PXP355 | | PXP356 | | |
|----------------------------------|-------|------------|------|------------|------|------------|------|----------|
| Sampling Date | | 2021/06/16 | | 2021/06/16 | | 2021/06/17 | | |
| COC Number | | N/A | | N/A | | N/A | | |
| | UNITS | DUP-D | RDL | DUP-E | RDL | DUP-F | RDL | QC Batch |
| Metals | | | | | | | | |
| Acid Extractable Aluminum (Al) | mg/kg | 11000 | 10 | 3100 | 10 | 8600 | 10 | 7446056 |
| Acid Extractable Antimony (Sb) | mg/kg | 8.0 | 2.0 | <2.0 | 2.0 | 15 | 2.0 | 7446056 |
| Acid Extractable Arsenic (As) | mg/kg | 9900 | 200 | 4.9 | 2.0 | 22000 | 200 | 7446056 |
| Acid Extractable Barium (Ba) | mg/kg | 61 | 5.0 | 6.4 | 5.0 | 44 | 5.0 | 7446056 |
| Acid Extractable Beryllium (Be) | mg/kg | <2.0 | 2.0 | <2.0 | 2.0 | <2.0 | 2.0 | 7446056 |
| Acid Extractable Bismuth (Bi) | mg/kg | <2.0 | 2.0 | <2.0 | 2.0 | <2.0 | 2.0 | 7446056 |
| Acid Extractable Boron (B) | mg/kg | <50 | 50 | <50 | 50 | <50 | 50 | 7446056 |
| Acid Extractable Cadmium (Cd) | mg/kg | <0.30 | 0.30 | <0.30 | 0.30 | <0.30 | 0.30 | 7446056 |
| Acid Extractable Chromium (Cr) | mg/kg | 19 | 2.0 | 4.0 | 2.0 | 16 | 2.0 | 7446056 |
| Acid Extractable Cobalt (Co) | mg/kg | <1.0 | 1.0 | <1.0 | 1.0 | 1.4 | 1.0 | 7446056 |
| Acid Extractable Copper (Cu) | mg/kg | 6.9 | 2.0 | <2.0 | 2.0 | 8.0 | 2.0 | 7446056 |
| Acid Extractable Iron (Fe) | mg/kg | 26000 | 50 | 1600 | 50 | 35000 | 50 | 7446056 |
| Acid Extractable Lead (Pb) | mg/kg | 39 | 0.50 | 4.7 | 0.50 | 74 | 0.50 | 7446056 |
| Acid Extractable Lithium (Li) | mg/kg | 20 | 2.0 | <2.0 | 2.0 | 12 | 2.0 | 7446056 |
| Acid Extractable Manganese (Mn) | mg/kg | 260 | 2.0 | 30 | 2.0 | 170 | 2.0 | 7446056 |
| Acid Extractable Mercury (Hg) | mg/kg | 2.7 | 0.10 | <0.10 | 0.10 | 15 | 0.10 | 7446056 |
| Acid Extractable Molybdenum (Mo) | mg/kg | <2.0 | 2.0 | <2.0 | 2.0 | <2.0 | 2.0 | 7446056 |
| Acid Extractable Nickel (Ni) | mg/kg | 7.3 | 2.0 | <2.0 | 2.0 | 6.1 | 2.0 | 7446056 |
| Acid Extractable Rubidium (Rb) | mg/kg | 38 | 2.0 | 3.0 | 2.0 | 22 | 2.0 | 7446056 |
| Acid Extractable Selenium (Se) | mg/kg | <0.50 | 0.50 | <0.50 | 0.50 | 0.54 | 0.50 | 7446056 |
| Acid Extractable Silver (Ag) | mg/kg | <0.50 | 0.50 | <0.50 | 0.50 | 0.66 | 0.50 | 7446056 |
| Acid Extractable Strontium (Sr) | mg/kg | 8.0 | 5.0 | <5.0 | 5.0 | 5.0 | 5.0 | 7446056 |
| Acid Extractable Thallium (Tl) | mg/kg | 0.30 | 0.10 | <0.10 | 0.10 | 0.24 | 0.10 | 7446056 |
| Acid Extractable Tin (Sn) | mg/kg | <1.0 | 1.0 | <1.0 | 1.0 | <1.0 | 1.0 | 7446056 |
| Acid Extractable Uranium (U) | mg/kg | 0.42 | 0.10 | 0.36 | 0.10 | 0.46 | 0.10 | 7446056 |
| Acid Extractable Vanadium (V) | mg/kg | 19 | 2.0 | 5.0 | 2.0 | 18 | 2.0 | 7446056 |
| Acid Extractable Zinc (Zn) | mg/kg | 31 | 5.0 | <5.0 | 5.0 | 21 | 5.0 | 7446056 |
| RDL = Reportable Detection Limit | | | | | | | | |
| QC Batch = Quality Control Batch | | | | | | | | |



BV Labs Job #: C1H4101
Report Date: 2021/07/14

GHD Limited
Client Project #: 11222385
Site Location: GOLDBORO
Your P.O. #: TO FOLLOW
Sampler Initials: JV

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

| | |
|-----------|-------|
| Package 1 | 7.7°C |
| Package 2 | 7.7°C |
| Package 3 | 7.3°C |

Results relate only to the items tested.



BUREAU
VERITAS

BV Labs Job #: C1H4101
Report Date: 2021/07/14

GHD Limited
Client Project #: 11222385
Site Location: GOLDBORO
Your P.O. #: TO FOLLOW
Sampler Initials: JV

QUALITY ASSURANCE REPORT

| QA/QC | Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|-------|---------|------|-----------------|----------------------------------|---------------|-------|----------|-------|-----------|
| | 7432666 | ZMR | RPD [PXP276-01] | Moisture | 2021/06/29 | 4.0 | | % | 25 |
| | 7435136 | MLB | Matrix Spike | Acid Extractable Antimony (Sb) | 2021/06/30 | | 105 | % | 75 - 125 |
| | | | | Acid Extractable Arsenic (As) | 2021/06/30 | | 100 | % | 75 - 125 |
| | | | | Acid Extractable Barium (Ba) | 2021/06/30 | | 120 | % | 75 - 125 |
| | | | | Acid Extractable Beryllium (Be) | 2021/06/30 | | 102 | % | 75 - 125 |
| | | | | Acid Extractable Bismuth (Bi) | 2021/06/30 | | 106 | % | 75 - 125 |
| | | | | Acid Extractable Boron (B) | 2021/06/30 | | 75 | % | 75 - 125 |
| | | | | Acid Extractable Cadmium (Cd) | 2021/06/30 | | 101 | % | 75 - 125 |
| | | | | Acid Extractable Chromium (Cr) | 2021/06/30 | | 106 | % | 75 - 125 |
| | | | | Acid Extractable Cobalt (Co) | 2021/06/30 | | 103 | % | 75 - 125 |
| | | | | Acid Extractable Copper (Cu) | 2021/06/30 | | 102 | % | 75 - 125 |
| | | | | Acid Extractable Lead (Pb) | 2021/06/30 | | NC | % | 75 - 125 |
| | | | | Acid Extractable Lithium (Li) | 2021/06/30 | | 107 | % | 75 - 125 |
| | | | | Acid Extractable Manganese (Mn) | 2021/06/30 | | NC | % | 75 - 125 |
| | | | | Acid Extractable Mercury (Hg) | 2021/06/30 | | 98 | % | 75 - 125 |
| | | | | Acid Extractable Molybdenum (Mo) | 2021/06/30 | | 104 | % | 75 - 125 |
| | | | | Acid Extractable Nickel (Ni) | 2021/06/30 | | 103 | % | 75 - 125 |
| | | | | Acid Extractable Rubidium (Rb) | 2021/06/30 | | 100 | % | 75 - 125 |
| | | | | Acid Extractable Selenium (Se) | 2021/06/30 | | 101 | % | 75 - 125 |
| | | | | Acid Extractable Silver (Ag) | 2021/06/30 | | 105 | % | 75 - 125 |
| | | | | Acid Extractable Strontium (Sr) | 2021/06/30 | | 109 | % | 75 - 125 |
| | | | | Acid Extractable Thallium (Tl) | 2021/06/30 | | 105 | % | 75 - 125 |
| | | | | Acid Extractable Tin (Sn) | 2021/06/30 | | 103 | % | 75 - 125 |
| | | | | Acid Extractable Uranium (U) | 2021/06/30 | | 110 | % | 75 - 125 |
| | | | | Acid Extractable Vanadium (V) | 2021/06/30 | | 104 | % | 75 - 125 |
| | | | | Acid Extractable Zinc (Zn) | 2021/06/30 | | 101 | % | 75 - 125 |
| | 7435136 | MLB | Spiked Blank | Acid Extractable Antimony (Sb) | 2021/06/30 | | 109 | % | 75 - 125 |
| | | | | Acid Extractable Arsenic (As) | 2021/06/30 | | 100 | % | 75 - 125 |
| | | | | Acid Extractable Barium (Ba) | 2021/06/30 | | 99 | % | 75 - 125 |
| | | | | Acid Extractable Beryllium (Be) | 2021/06/30 | | 97 | % | 75 - 125 |
| | | | | Acid Extractable Bismuth (Bi) | 2021/06/30 | | 100 | % | 75 - 125 |
| | | | | Acid Extractable Boron (B) | 2021/06/30 | | 97 | % | 75 - 125 |
| | | | | Acid Extractable Cadmium (Cd) | 2021/06/30 | | 97 | % | 75 - 125 |
| | | | | Acid Extractable Chromium (Cr) | 2021/06/30 | | 101 | % | 75 - 125 |
| | | | | Acid Extractable Cobalt (Co) | 2021/06/30 | | 99 | % | 75 - 125 |
| | | | | Acid Extractable Copper (Cu) | 2021/06/30 | | 99 | % | 75 - 125 |
| | | | | Acid Extractable Lead (Pb) | 2021/06/30 | | 100 | % | 75 - 125 |
| | | | | Acid Extractable Lithium (Li) | 2021/06/30 | | 105 | % | 75 - 125 |
| | | | | Acid Extractable Manganese (Mn) | 2021/06/30 | | 100 | % | 75 - 125 |
| | | | | Acid Extractable Mercury (Hg) | 2021/06/30 | | 105 | % | 75 - 125 |
| | | | | Acid Extractable Molybdenum (Mo) | 2021/06/30 | | 103 | % | 75 - 125 |
| | | | | Acid Extractable Nickel (Ni) | 2021/06/30 | | 99 | % | 75 - 125 |
| | | | | Acid Extractable Rubidium (Rb) | 2021/06/30 | | 100 | % | 75 - 125 |
| | | | | Acid Extractable Selenium (Se) | 2021/06/30 | | 101 | % | 75 - 125 |
| | | | | Acid Extractable Silver (Ag) | 2021/06/30 | | 100 | % | 75 - 125 |
| | | | | Acid Extractable Strontium (Sr) | 2021/06/30 | | 99 | % | 75 - 125 |
| | | | | Acid Extractable Thallium (Tl) | 2021/06/30 | | 100 | % | 75 - 125 |
| | | | | Acid Extractable Tin (Sn) | 2021/06/30 | | 101 | % | 75 - 125 |
| | | | | Acid Extractable Uranium (U) | 2021/06/30 | | 104 | % | 75 - 125 |
| | | | | Acid Extractable Vanadium (V) | 2021/06/30 | | 101 | % | 75 - 125 |
| | | | | Acid Extractable Zinc (Zn) | 2021/06/30 | | 102 | % | 75 - 125 |
| | 7435136 | MLB | Method Blank | Acid Extractable Aluminum (Al) | 2021/06/29 | <10 | | mg/kg | |



BV Labs Job #: C1H4101
 Report Date: 2021/07/14

GHD Limited
 Client Project #: 11222385
 Site Location: GOLDBORO
 Your P.O. #: TO FOLLOW
 Sampler Initials: JV

QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|-------------|------|-----------------|----------------------------------|---------------|-------|----------|-------|-----------|
| | | | Acid Extractable Antimony (Sb) | 2021/06/29 | <2.0 | | mg/kg | |
| | | | Acid Extractable Arsenic (As) | 2021/06/29 | <2.0 | | mg/kg | |
| | | | Acid Extractable Barium (Ba) | 2021/06/29 | <5.0 | | mg/kg | |
| | | | Acid Extractable Beryllium (Be) | 2021/06/29 | <2.0 | | mg/kg | |
| | | | Acid Extractable Bismuth (Bi) | 2021/06/29 | <2.0 | | mg/kg | |
| | | | Acid Extractable Boron (B) | 2021/06/29 | <50 | | mg/kg | |
| | | | Acid Extractable Cadmium (Cd) | 2021/06/29 | <0.30 | | mg/kg | |
| | | | Acid Extractable Chromium (Cr) | 2021/06/29 | <2.0 | | mg/kg | |
| | | | Acid Extractable Cobalt (Co) | 2021/06/29 | <1.0 | | mg/kg | |
| | | | Acid Extractable Copper (Cu) | 2021/06/29 | <2.0 | | mg/kg | |
| | | | Acid Extractable Iron (Fe) | 2021/06/29 | <50 | | mg/kg | |
| | | | Acid Extractable Lead (Pb) | 2021/06/29 | <0.50 | | mg/kg | |
| | | | Acid Extractable Lithium (Li) | 2021/06/29 | <2.0 | | mg/kg | |
| | | | Acid Extractable Manganese (Mn) | 2021/06/29 | <2.0 | | mg/kg | |
| | | | Acid Extractable Mercury (Hg) | 2021/06/29 | <0.10 | | mg/kg | |
| | | | Acid Extractable Molybdenum (Mo) | 2021/06/29 | <2.0 | | mg/kg | |
| | | | Acid Extractable Nickel (Ni) | 2021/06/29 | <2.0 | | mg/kg | |
| | | | Acid Extractable Rubidium (Rb) | 2021/06/29 | <2.0 | | mg/kg | |
| | | | Acid Extractable Selenium (Se) | 2021/06/29 | <0.50 | | mg/kg | |
| | | | Acid Extractable Silver (Ag) | 2021/06/29 | <0.50 | | mg/kg | |
| | | | Acid Extractable Strontium (Sr) | 2021/06/29 | <5.0 | | mg/kg | |
| | | | Acid Extractable Thallium (Tl) | 2021/06/29 | <0.10 | | mg/kg | |
| | | | Acid Extractable Tin (Sn) | 2021/06/29 | <1.0 | | mg/kg | |
| | | | Acid Extractable Uranium (U) | 2021/06/29 | <0.10 | | mg/kg | |
| | | | Acid Extractable Vanadium (V) | 2021/06/29 | <2.0 | | mg/kg | |
| | | | Acid Extractable Zinc (Zn) | 2021/06/29 | <5.0 | | mg/kg | |
| 7435136 | MLB | RPD | Acid Extractable Lead (Pb) | 2021/06/30 | 4.2 | | % | 35 |
| 7435465 | ZMR | RPD | Moisture | 2021/06/30 | 1.1 | | % | 25 |
| 7435909 | SSI | RPD [PXP276-01] | Soluble (5:1) pH | 2021/06/29 | 3.7 | | % | N/A |
| 7435915 | SSI | RPD [PXP276-01] | Conductivity | 2021/06/29 | 6.4 | | % | 20 |
| 7436182 | ZMR | RPD [PXP295-01] | Moisture | 2021/06/30 | 3.9 | | % | 25 |
| 7437988 | BAN | Matrix Spike | Acid Extractable Antimony (Sb) | 2021/07/02 | | 106 | % | 75 - 125 |
| | | | Acid Extractable Arsenic (As) | 2021/07/02 | | 103 | % | 75 - 125 |
| | | | Acid Extractable Barium (Ba) | 2021/07/02 | | NC | % | 75 - 125 |
| | | | Acid Extractable Beryllium (Be) | 2021/07/02 | | 100 | % | 75 - 125 |
| | | | Acid Extractable Bismuth (Bi) | 2021/07/02 | | 100 | % | 75 - 125 |
| | | | Acid Extractable Boron (B) | 2021/07/02 | | 93 | % | 75 - 125 |
| | | | Acid Extractable Cadmium (Cd) | 2021/07/02 | | 99 | % | 75 - 125 |
| | | | Acid Extractable Chromium (Cr) | 2021/07/02 | | 84 | % | 75 - 125 |
| | | | Acid Extractable Cobalt (Co) | 2021/07/02 | | 101 | % | 75 - 125 |
| | | | Acid Extractable Copper (Cu) | 2021/07/02 | | 105 | % | 75 - 125 |
| | | | Acid Extractable Lead (Pb) | 2021/07/02 | | 97 | % | 75 - 125 |
| | | | Acid Extractable Lithium (Li) | 2021/07/02 | | 105 | % | 75 - 125 |
| | | | Acid Extractable Manganese (Mn) | 2021/07/02 | | NC | % | 75 - 125 |
| | | | Acid Extractable Mercury (Hg) | 2021/07/02 | | 99 | % | 75 - 125 |
| | | | Acid Extractable Molybdenum (Mo) | 2021/07/02 | | 107 | % | 75 - 125 |
| | | | Acid Extractable Nickel (Ni) | 2021/07/02 | | 103 | % | 75 - 125 |
| | | | Acid Extractable Rubidium (Rb) | 2021/07/02 | | 101 | % | 75 - 125 |
| | | | Acid Extractable Selenium (Se) | 2021/07/02 | | 104 | % | 75 - 125 |
| | | | Acid Extractable Silver (Ag) | 2021/07/02 | | 103 | % | 75 - 125 |
| | | | Acid Extractable Strontium (Sr) | 2021/07/02 | | 102 | % | 75 - 125 |
| | | | Acid Extractable Thallium (Tl) | 2021/07/02 | | 102 | % | 75 - 125 |



BUREAU
VERITAS

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GHD Limited
Client Project #: 11222385
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Your P.O. #: TO FOLLOW
Sampler Initials: JV

QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---------------------------------|------------|--------------|----------------------------------|---------------|----------|----------|-------|-----------|
| 7437988 | BAN | Spiked Blank | Acid Extractable Tin (Sn) | 2021/07/02 | | 104 | % | 75 - 125 |
| | | | Acid Extractable Uranium (U) | 2021/07/02 | | 102 | % | 75 - 125 |
| | | | Acid Extractable Vanadium (V) | 2021/07/02 | | 95 | % | 75 - 125 |
| | | | Acid Extractable Zinc (Zn) | 2021/07/02 | | NC | % | 75 - 125 |
| | | | Acid Extractable Antimony (Sb) | 2021/07/02 | | 111 | % | 75 - 125 |
| | | | Acid Extractable Arsenic (As) | 2021/07/02 | | 103 | % | 75 - 125 |
| | | | Acid Extractable Barium (Ba) | 2021/07/02 | | 98 | % | 75 - 125 |
| | | | Acid Extractable Beryllium (Be) | 2021/07/02 | | 99 | % | 75 - 125 |
| | | | Acid Extractable Bismuth (Bi) | 2021/07/02 | | 101 | % | 75 - 125 |
| | | | Acid Extractable Boron (B) | 2021/07/02 | | 98 | % | 75 - 125 |
| | | | Acid Extractable Cadmium (Cd) | 2021/07/02 | | 100 | % | 75 - 125 |
| | | | Acid Extractable Chromium (Cr) | 2021/07/02 | | 103 | % | 75 - 125 |
| | | | Acid Extractable Cobalt (Co) | 2021/07/02 | | 101 | % | 75 - 125 |
| | | | Acid Extractable Copper (Cu) | 2021/07/02 | | 103 | % | 75 - 125 |
| | | | Acid Extractable Lead (Pb) | 2021/07/02 | | 101 | % | 75 - 125 |
| | | | Acid Extractable Lithium (Li) | 2021/07/02 | | 107 | % | 75 - 125 |
| | | | Acid Extractable Manganese (Mn) | 2021/07/02 | | 103 | % | 75 - 125 |
| | | | Acid Extractable Mercury (Hg) | 2021/07/02 | | 107 | % | 75 - 125 |
| | | | Acid Extractable Molybdenum (Mo) | 2021/07/02 | | 108 | % | 75 - 125 |
| | | | Acid Extractable Nickel (Ni) | 2021/07/02 | | 103 | % | 75 - 125 |
| | | | Acid Extractable Rubidium (Rb) | 2021/07/02 | | 100 | % | 75 - 125 |
| | | | Acid Extractable Selenium (Se) | 2021/07/02 | | 106 | % | 75 - 125 |
| | | | Acid Extractable Silver (Ag) | 2021/07/02 | | 103 | % | 75 - 125 |
| Acid Extractable Strontium (Sr) | 2021/07/02 | | 105 | % | 75 - 125 | | | |
| Acid Extractable Thallium (Tl) | 2021/07/02 | | 102 | % | 75 - 125 | | | |
| 7437988 | BAN | Method Blank | Acid Extractable Tin (Sn) | 2021/07/02 | | 102 | % | 75 - 125 |
| | | | Acid Extractable Uranium (U) | 2021/07/02 | | 104 | % | 75 - 125 |
| | | | Acid Extractable Vanadium (V) | 2021/07/02 | | 101 | % | 75 - 125 |
| | | | Acid Extractable Zinc (Zn) | 2021/07/02 | | 104 | % | 75 - 125 |
| | | | Acid Extractable Aluminum (Al) | 2021/07/02 | <10 | | mg/kg | |
| | | | Acid Extractable Antimony (Sb) | 2021/07/02 | <2.0 | | mg/kg | |
| | | | Acid Extractable Arsenic (As) | 2021/07/02 | <2.0 | | mg/kg | |
| | | | Acid Extractable Barium (Ba) | 2021/07/02 | <5.0 | | mg/kg | |
| | | | Acid Extractable Beryllium (Be) | 2021/07/02 | <2.0 | | mg/kg | |
| | | | Acid Extractable Bismuth (Bi) | 2021/07/02 | <2.0 | | mg/kg | |
| | | | Acid Extractable Boron (B) | 2021/07/02 | <50 | | mg/kg | |
| | | | Acid Extractable Cadmium (Cd) | 2021/07/02 | <0.30 | | mg/kg | |
| | | | Acid Extractable Chromium (Cr) | 2021/07/02 | <2.0 | | mg/kg | |
| | | | Acid Extractable Cobalt (Co) | 2021/07/02 | <1.0 | | mg/kg | |
| | | | Acid Extractable Copper (Cu) | 2021/07/02 | <2.0 | | mg/kg | |
| | | | Acid Extractable Iron (Fe) | 2021/07/02 | <50 | | mg/kg | |
| | | | Acid Extractable Lead (Pb) | 2021/07/02 | <0.50 | | mg/kg | |
| | | | Acid Extractable Lithium (Li) | 2021/07/02 | <2.0 | | mg/kg | |
| | | | Acid Extractable Manganese (Mn) | 2021/07/02 | <2.0 | | mg/kg | |
| | | | Acid Extractable Mercury (Hg) | 2021/07/02 | <0.10 | | mg/kg | |
| | | | Acid Extractable Molybdenum (Mo) | 2021/07/02 | <2.0 | | mg/kg | |
| | | | Acid Extractable Nickel (Ni) | 2021/07/02 | <2.0 | | mg/kg | |
| | | | Acid Extractable Rubidium (Rb) | 2021/07/02 | <2.0 | | mg/kg | |
| Acid Extractable Selenium (Se) | 2021/07/02 | <0.50 | | mg/kg | | | | |
| Acid Extractable Silver (Ag) | 2021/07/02 | <0.50 | | mg/kg | | | | |
| Acid Extractable Strontium (Sr) | 2021/07/02 | <5.0 | | mg/kg | | | | |
| Acid Extractable Thallium (Tl) | 2021/07/02 | <0.10 | | mg/kg | | | | |



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QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits | | | |
|-------------|------|--------------------------|----------------------------------|---------------|---------------|----------------------|------------|-----------|-----|------|----------|
| 7437988 | BAN | RPD | Acid Extractable Tin (Sn) | 2021/07/02 | <1.0 | | mg/kg | | | | |
| | | | Acid Extractable Uranium (U) | 2021/07/02 | <0.10 | | mg/kg | | | | |
| | | | Acid Extractable Vanadium (V) | 2021/07/02 | <2.0 | | mg/kg | | | | |
| | | | Acid Extractable Zinc (Zn) | 2021/07/02 | <5.0 | | mg/kg | | | | |
| | | | Acid Extractable Aluminum (Al) | 2021/07/02 | 6.5 | | % | 35 | | | |
| | | | Acid Extractable Antimony (Sb) | 2021/07/02 | NC | | % | 35 | | | |
| | | | Acid Extractable Arsenic (As) | 2021/07/02 | 12 | | % | 35 | | | |
| | | | Acid Extractable Barium (Ba) | 2021/07/02 | 30 | | % | 35 | | | |
| | | | Acid Extractable Beryllium (Be) | 2021/07/02 | NC | | % | 35 | | | |
| | | | Acid Extractable Bismuth (Bi) | 2021/07/02 | NC | | % | 35 | | | |
| | | | Acid Extractable Boron (B) | 2021/07/02 | NC | | % | 35 | | | |
| | | | Acid Extractable Cadmium (Cd) | 2021/07/02 | NC | | % | 35 | | | |
| | | | Acid Extractable Chromium (Cr) | 2021/07/02 | 19 | | % | 35 | | | |
| | | | Acid Extractable Cobalt (Co) | 2021/07/02 | 5.3 | | % | 35 | | | |
| | | | Acid Extractable Copper (Cu) | 2021/07/02 | 14 | | % | 35 | | | |
| | | | Acid Extractable Iron (Fe) | 2021/07/02 | 11 | | % | 35 | | | |
| | | | Acid Extractable Lead (Pb) | 2021/07/02 | 18 | | % | 35 | | | |
| | | | Acid Extractable Lithium (Li) | 2021/07/02 | 2.8 | | % | 35 | | | |
| | | | Acid Extractable Manganese (Mn) | 2021/07/02 | 6.1 | | % | 35 | | | |
| | | | Acid Extractable Mercury (Hg) | 2021/07/02 | NC | | % | 35 | | | |
| | | | Acid Extractable Molybdenum (Mo) | 2021/07/02 | NC | | % | 35 | | | |
| | | | Acid Extractable Nickel (Ni) | 2021/07/02 | 6.6 | | % | 35 | | | |
| | | | Acid Extractable Rubidium (Rb) | 2021/07/02 | 6.0 | | % | 35 | | | |
| | | | Acid Extractable Selenium (Se) | 2021/07/02 | NC | | % | 35 | | | |
| | | | Acid Extractable Silver (Ag) | 2021/07/02 | NC | | % | 35 | | | |
| | | | Acid Extractable Strontium (Sr) | 2021/07/02 | 11 | | % | 35 | | | |
| | | | Acid Extractable Thallium (Tl) | 2021/07/02 | 5.0 | | % | 35 | | | |
| | | | Acid Extractable Tin (Sn) | 2021/07/02 | NC | | % | 35 | | | |
| | | | Acid Extractable Uranium (U) | 2021/07/02 | 6.5 | | % | 35 | | | |
| | | | Acid Extractable Vanadium (V) | 2021/07/02 | 16 | | % | 35 | | | |
| | | | Acid Extractable Zinc (Zn) | 2021/07/02 | 16 | | % | 35 | | | |
| | | | 7440667 | BBD | QC Standard | Organic Carbon (TOC) | 2021/07/02 | | 111 | % | 75 - 125 |
| | | | 7440667 | BBD | Method Blank | Organic Carbon (TOC) | 2021/07/02 | <0.50 | | g/kg | |
| 7440667 | BBD | RPD [PXP279-01] | Organic Carbon (TOC) | 2021/07/02 | 1.5 | | % | 35 | | | |
| 7440816 | KKE | RPD [PXP334-01] | Moisture | 2021/07/03 | 4.3 | | % | 25 | | | |
| 7440858 | EMT | Matrix Spike [PXP276-01] | Chloride (Cl-) | 2021/07/05 | | 103 | % | 75 - 125 | | | |
| 7440858 | EMT | Spiked Blank | Chloride (Cl-) | 2021/07/05 | | 101 | % | 80 - 120 | | | |
| 7440858 | EMT | Method Blank | Chloride (Cl-) | 2021/07/05 | <5.0 | | mg/kg | | | | |
| 7440858 | EMT | RPD [PXP276-01] | Chloride (Cl-) | 2021/07/05 | NC | | % | 30 | | | |
| 7440860 | EMT | Matrix Spike [PXP276-01] | Sulphate (SO4) | 2021/07/05 | | 114 | % | 75 - 125 | | | |
| 7440860 | EMT | Spiked Blank | Sulphate (SO4) | 2021/07/05 | | 106 | % | 80 - 120 | | | |
| 7440860 | EMT | Method Blank | Sulphate (SO4) | 2021/07/05 | 11, RDL=10 | | mg/kg | | | | |
| 7440860 | EMT | RPD [PXP276-01] | Sulphate (SO4) | 2021/07/05 | 2.6 (1) | | % | 30 | | | |
| 7440865 | EMT | Matrix Spike [PXP276-01] | Orthophosphate (P) | 2021/07/05 | | 95 | % | 75 - 125 | | | |
| 7440865 | EMT | Spiked Blank | Orthophosphate (P) | 2021/07/05 | | 97 | % | 80 - 120 | | | |
| 7440865 | EMT | Method Blank | Orthophosphate (P) | 2021/07/05 | <0.050 | | mg/kg | | | | |
| 7440865 | EMT | RPD [PXP276-01] | Orthophosphate (P) | 2021/07/05 | NC | | % | 30 | | | |
| 7440867 | EMT | Matrix Spike [PXP276-01] | Nitrate + Nitrite (N) | 2021/07/05 | | 86 | % | 75 - 125 | | | |
| 7440867 | EMT | Spiked Blank | Nitrate + Nitrite (N) | 2021/07/05 | | 92 | % | 80 - 120 | | | |
| 7440867 | EMT | Method Blank | Nitrate + Nitrite (N) | 2021/07/05 | <0.25 | | mg/kg | | | | |
| 7440867 | EMT | RPD [PXP276-01] | Nitrate + Nitrite (N) | 2021/07/05 | 2.7 | | % | 30 | | | |



BUREAU
VERITAS

BV Labs Job #: C1H4101
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GHD Limited
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QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC | Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|-------|---------|------|--------------------------|----------------------------------|---------------|--------|----------|-------|-----------|
| | 7440868 | EMT | Matrix Spike [PXP276-01] | Nitrite (N) | 2021/07/05 | | 88 | % | 75 - 125 |
| | 7440868 | EMT | Spiked Blank | Nitrite (N) | 2021/07/05 | | 94 | % | 80 - 120 |
| | 7440868 | EMT | Method Blank | Nitrite (N) | 2021/07/05 | <0.050 | | mg/kg | |
| | 7440868 | EMT | RPD [PXP276-01] | Nitrite (N) | 2021/07/05 | NC | | % | 30 |
| | 7441029 | KKE | RPD [PXP356-01] | Moisture | 2021/07/03 | 3.8 | | % | 25 |
| | 7441351 | KKE | RPD [PXP320-01] | Moisture | 2021/07/03 | 7.4 | | % | 25 |
| | 7443412 | MLB | Matrix Spike [PXP287-01] | Acid Extractable Antimony (Sb) | 2021/07/05 | | 100 | % | 75 - 125 |
| | | | | Acid Extractable Arsenic (As) | 2021/07/05 | | 102 | % | 75 - 125 |
| | | | | Acid Extractable Barium (Ba) | 2021/07/05 | | 108 | % | 75 - 125 |
| | | | | Acid Extractable Beryllium (Be) | 2021/07/05 | | 102 | % | 75 - 125 |
| | | | | Acid Extractable Bismuth (Bi) | 2021/07/05 | | 103 | % | 75 - 125 |
| | | | | Acid Extractable Boron (B) | 2021/07/05 | | 93 | % | 75 - 125 |
| | | | | Acid Extractable Cadmium (Cd) | 2021/07/05 | | 102 | % | 75 - 125 |
| | | | | Acid Extractable Chromium (Cr) | 2021/07/05 | | 107 | % | 75 - 125 |
| | | | | Acid Extractable Cobalt (Co) | 2021/07/05 | | 105 | % | 75 - 125 |
| | | | | Acid Extractable Copper (Cu) | 2021/07/05 | | 108 | % | 75 - 125 |
| | | | | Acid Extractable Lead (Pb) | 2021/07/05 | | 103 | % | 75 - 125 |
| | | | | Acid Extractable Lithium (Li) | 2021/07/05 | | 104 | % | 75 - 125 |
| | | | | Acid Extractable Manganese (Mn) | 2021/07/05 | | NC | % | 75 - 125 |
| | | | | Acid Extractable Mercury (Hg) | 2021/07/05 | | 98 | % | 75 - 125 |
| | | | | Acid Extractable Molybdenum (Mo) | 2021/07/05 | | 105 | % | 75 - 125 |
| | | | | Acid Extractable Nickel (Ni) | 2021/07/05 | | 107 | % | 75 - 125 |
| | | | | Acid Extractable Rubidium (Rb) | 2021/07/05 | | 102 | % | 75 - 125 |
| | | | | Acid Extractable Selenium (Se) | 2021/07/05 | | 104 | % | 75 - 125 |
| | | | | Acid Extractable Silver (Ag) | 2021/07/05 | | 103 | % | 75 - 125 |
| | | | | Acid Extractable Strontium (Sr) | 2021/07/05 | | 104 | % | 75 - 125 |
| | | | | Acid Extractable Thallium (Tl) | 2021/07/05 | | 103 | % | 75 - 125 |
| | | | | Acid Extractable Tin (Sn) | 2021/07/05 | | 101 | % | 75 - 125 |
| | | | | Acid Extractable Uranium (U) | 2021/07/05 | | 105 | % | 75 - 125 |
| | | | | Acid Extractable Vanadium (V) | 2021/07/05 | | 109 | % | 75 - 125 |
| | | | | Acid Extractable Zinc (Zn) | 2021/07/05 | | 107 | % | 75 - 125 |
| | 7443412 | MLB | Spiked Blank | Acid Extractable Antimony (Sb) | 2021/07/05 | | 102 | % | 75 - 125 |
| | | | | Acid Extractable Arsenic (As) | 2021/07/05 | | 101 | % | 75 - 125 |
| | | | | Acid Extractable Barium (Ba) | 2021/07/05 | | 100 | % | 75 - 125 |
| | | | | Acid Extractable Beryllium (Be) | 2021/07/05 | | 103 | % | 75 - 125 |
| | | | | Acid Extractable Bismuth (Bi) | 2021/07/05 | | 99 | % | 75 - 125 |
| | | | | Acid Extractable Boron (B) | 2021/07/05 | | 103 | % | 75 - 125 |
| | | | | Acid Extractable Cadmium (Cd) | 2021/07/05 | | 101 | % | 75 - 125 |
| | | | | Acid Extractable Chromium (Cr) | 2021/07/05 | | 100 | % | 75 - 125 |
| | | | | Acid Extractable Cobalt (Co) | 2021/07/05 | | 102 | % | 75 - 125 |
| | | | | Acid Extractable Copper (Cu) | 2021/07/05 | | 102 | % | 75 - 125 |
| | | | | Acid Extractable Lead (Pb) | 2021/07/05 | | 99 | % | 75 - 125 |
| | | | | Acid Extractable Lithium (Li) | 2021/07/05 | | 101 | % | 75 - 125 |
| | | | | Acid Extractable Manganese (Mn) | 2021/07/05 | | 100 | % | 75 - 125 |
| | | | | Acid Extractable Mercury (Hg) | 2021/07/05 | | 101 | % | 75 - 125 |
| | | | | Acid Extractable Molybdenum (Mo) | 2021/07/05 | | 102 | % | 75 - 125 |
| | | | | Acid Extractable Nickel (Ni) | 2021/07/05 | | 102 | % | 75 - 125 |
| | | | | Acid Extractable Rubidium (Rb) | 2021/07/05 | | 97 | % | 75 - 125 |
| | | | | Acid Extractable Selenium (Se) | 2021/07/05 | | 106 | % | 75 - 125 |
| | | | | Acid Extractable Silver (Ag) | 2021/07/05 | | 100 | % | 75 - 125 |
| | | | | Acid Extractable Strontium (Sr) | 2021/07/05 | | 98 | % | 75 - 125 |
| | | | | Acid Extractable Thallium (Tl) | 2021/07/05 | | 101 | % | 75 - 125 |



BV Labs Job #: C1H4101
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GHD Limited
 Client Project #: 11222385
 Site Location: GOLDBORO
 Your P.O. #: TO FOLLOW
 Sampler Initials: JV

QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|----------------------------------|------------|-----------------|---------------------------------|---------------|-------|----------|-------|-----------|
| 7443412 | MLB | Method Blank | Acid Extractable Tin (Sn) | 2021/07/05 | | 103 | % | 75 - 125 |
| | | | Acid Extractable Uranium (U) | 2021/07/05 | | 100 | % | 75 - 125 |
| | | | Acid Extractable Vanadium (V) | 2021/07/05 | | 100 | % | 75 - 125 |
| | | | Acid Extractable Zinc (Zn) | 2021/07/05 | | 100 | % | 75 - 125 |
| | | | Acid Extractable Aluminum (Al) | 2021/07/05 | <10 | mg/kg | | |
| | | | Acid Extractable Antimony (Sb) | 2021/07/05 | <2.0 | mg/kg | | |
| | | | Acid Extractable Arsenic (As) | 2021/07/05 | <2.0 | mg/kg | | |
| | | | Acid Extractable Barium (Ba) | 2021/07/05 | <5.0 | mg/kg | | |
| | | | Acid Extractable Beryllium (Be) | 2021/07/05 | <2.0 | mg/kg | | |
| | | | Acid Extractable Bismuth (Bi) | 2021/07/05 | <2.0 | mg/kg | | |
| | | | Acid Extractable Boron (B) | 2021/07/05 | <50 | mg/kg | | |
| | | | Acid Extractable Cadmium (Cd) | 2021/07/05 | <0.30 | mg/kg | | |
| | | | Acid Extractable Chromium (Cr) | 2021/07/05 | <2.0 | mg/kg | | |
| | | | Acid Extractable Cobalt (Co) | 2021/07/05 | <1.0 | mg/kg | | |
| | | | Acid Extractable Copper (Cu) | 2021/07/05 | <2.0 | mg/kg | | |
| | | | Acid Extractable Iron (Fe) | 2021/07/05 | <50 | mg/kg | | |
| | | | Acid Extractable Lead (Pb) | 2021/07/05 | <0.50 | mg/kg | | |
| | | | Acid Extractable Lithium (Li) | 2021/07/05 | <2.0 | mg/kg | | |
| | | | Acid Extractable Manganese (Mn) | 2021/07/05 | <2.0 | mg/kg | | |
| | | | Acid Extractable Mercury (Hg) | 2021/07/05 | <0.10 | mg/kg | | |
| Acid Extractable Molybdenum (Mo) | 2021/07/05 | <2.0 | mg/kg | | | | | |
| Acid Extractable Nickel (Ni) | 2021/07/05 | <2.0 | mg/kg | | | | | |
| Acid Extractable Rubidium (Rb) | 2021/07/05 | <2.0 | mg/kg | | | | | |
| Acid Extractable Selenium (Se) | 2021/07/05 | <0.50 | mg/kg | | | | | |
| Acid Extractable Silver (Ag) | 2021/07/05 | <0.50 | mg/kg | | | | | |
| Acid Extractable Strontium (Sr) | 2021/07/05 | <5.0 | mg/kg | | | | | |
| Acid Extractable Thallium (Tl) | 2021/07/05 | <0.10 | mg/kg | | | | | |
| Acid Extractable Tin (Sn) | 2021/07/05 | <1.0 | mg/kg | | | | | |
| Acid Extractable Uranium (U) | 2021/07/05 | <0.10 | mg/kg | | | | | |
| Acid Extractable Vanadium (V) | 2021/07/05 | <2.0 | mg/kg | | | | | |
| Acid Extractable Zinc (Zn) | 2021/07/05 | <5.0 | mg/kg | | | | | |
| 7443412 | MLB | RPD [PXP287-01] | Acid Extractable Aluminum (Al) | 2021/07/05 | 3.5 | | % | 35 |
| | | | Acid Extractable Antimony (Sb) | 2021/07/05 | NC | | % | 35 |
| | | | Acid Extractable Arsenic (As) | 2021/07/05 | 1.2 | | % | 35 |
| | | | Acid Extractable Barium (Ba) | 2021/07/05 | 0.41 | | % | 35 |
| | | | Acid Extractable Beryllium (Be) | 2021/07/05 | NC | | % | 35 |
| | | | Acid Extractable Bismuth (Bi) | 2021/07/05 | NC | | % | 35 |
| | | | Acid Extractable Boron (B) | 2021/07/05 | NC | | % | 35 |
| | | | Acid Extractable Cadmium (Cd) | 2021/07/05 | NC | | % | 35 |
| | | | Acid Extractable Chromium (Cr) | 2021/07/05 | 7.1 | | % | 35 |
| | | | Acid Extractable Cobalt (Co) | 2021/07/05 | 8.7 | | % | 35 |
| | | | Acid Extractable Copper (Cu) | 2021/07/05 | NC | | % | 35 |
| | | | Acid Extractable Iron (Fe) | 2021/07/05 | 4.8 | | % | 35 |
| | | | Acid Extractable Lead (Pb) | 2021/07/05 | 5.2 | | % | 35 |
| | | | Acid Extractable Lithium (Li) | 2021/07/05 | 5.9 | | % | 35 |
| | | | Acid Extractable Manganese (Mn) | 2021/07/05 | 7.1 | | % | 35 |
| | | | Acid Extractable Mercury (Hg) | 2021/07/05 | NC | | % | 35 |
| Acid Extractable Molybdenum (Mo) | 2021/07/05 | NC | | % | 35 | | | |
| Acid Extractable Nickel (Ni) | 2021/07/05 | 6.6 | | % | 35 | | | |
| Acid Extractable Rubidium (Rb) | 2021/07/05 | 2.3 | | % | 35 | | | |
| Acid Extractable Selenium (Se) | 2021/07/05 | NC | | % | 35 | | | |
| Acid Extractable Silver (Ag) | 2021/07/05 | NC | | % | 35 | | | |



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GHD Limited
 Client Project #: 11222385
 Site Location: GOLDBORO
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 Sampler Initials: JV

QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|-------------|------|-----------------|----------------------------------|---------------|-------|----------|-------|-----------|
| | | | Acid Extractable Strontium (Sr) | 2021/07/05 | NC | | % | 35 |
| | | | Acid Extractable Thallium (Tl) | 2021/07/05 | NC | | % | 35 |
| | | | Acid Extractable Tin (Sn) | 2021/07/05 | NC | | % | 35 |
| | | | Acid Extractable Uranium (U) | 2021/07/05 | 3.2 | | % | 35 |
| | | | Acid Extractable Vanadium (V) | 2021/07/05 | 3.8 | | % | 35 |
| | | | Acid Extractable Zinc (Zn) | 2021/07/05 | 8.8 | | % | 35 |
| 7444081 | KLE | RPD [PXP279-01] | Gravel | 2021/07/14 | 3.3 | | % | 35 |
| | | | Sand | 2021/07/14 | 4.1 | | % | 35 |
| | | | Silt | 2021/07/14 | 2.4 | | % | 35 |
| | | | Clay | 2021/07/14 | 0.29 | | % | 35 |
| 7444093 | SSI | RPD [PXP295-01] | Conductivity | 2021/07/05 | 1.9 | | % | 20 |
| 7444104 | SSI | RPD [PXP295-01] | Soluble (5:1) pH | 2021/07/05 | 1.8 | | % | N/A |
| 7445432 | BBD | QC Standard | Organic Carbon (TOC) | 2021/07/06 | | 102 | % | 75 - 125 |
| 7445432 | BBD | Method Blank | Organic Carbon (TOC) | 2021/07/06 | <0.50 | | g/kg | |
| 7445432 | BBD | RPD [PXP280-01] | Organic Carbon (TOC) | 2021/07/06 | 4.9 | | % | 35 |
| 7445460 | BAN | Matrix Spike | Acid Extractable Antimony (Sb) | 2021/07/06 | | 106 | % | 75 - 125 |
| | | | Acid Extractable Arsenic (As) | 2021/07/06 | | 103 | % | 75 - 125 |
| | | | Acid Extractable Barium (Ba) | 2021/07/06 | | 102 | % | 75 - 125 |
| | | | Acid Extractable Beryllium (Be) | 2021/07/06 | | 106 | % | 75 - 125 |
| | | | Acid Extractable Bismuth (Bi) | 2021/07/06 | | 108 | % | 75 - 125 |
| | | | Acid Extractable Boron (B) | 2021/07/06 | | 100 | % | 75 - 125 |
| | | | Acid Extractable Cadmium (Cd) | 2021/07/06 | | 107 | % | 75 - 125 |
| | | | Acid Extractable Chromium (Cr) | 2021/07/06 | | 101 | % | 75 - 125 |
| | | | Acid Extractable Cobalt (Co) | 2021/07/06 | | 106 | % | 75 - 125 |
| | | | Acid Extractable Copper (Cu) | 2021/07/06 | | 107 | % | 75 - 125 |
| | | | Acid Extractable Lead (Pb) | 2021/07/06 | | 107 | % | 75 - 125 |
| | | | Acid Extractable Lithium (Li) | 2021/07/06 | | 112 | % | 75 - 125 |
| | | | Acid Extractable Manganese (Mn) | 2021/07/06 | | NC | % | 75 - 125 |
| | | | Acid Extractable Mercury (Hg) | 2021/07/06 | | 102 | % | 75 - 125 |
| | | | Acid Extractable Molybdenum (Mo) | 2021/07/06 | | 102 | % | 75 - 125 |
| | | | Acid Extractable Nickel (Ni) | 2021/07/06 | | 106 | % | 75 - 125 |
| | | | Acid Extractable Rubidium (Rb) | 2021/07/06 | | 101 | % | 75 - 125 |
| | | | Acid Extractable Selenium (Se) | 2021/07/06 | | 101 | % | 75 - 125 |
| | | | Acid Extractable Silver (Ag) | 2021/07/06 | | 105 | % | 75 - 125 |
| | | | Acid Extractable Strontium (Sr) | 2021/07/06 | | 102 | % | 75 - 125 |
| | | | Acid Extractable Thallium (Tl) | 2021/07/06 | | 108 | % | 75 - 125 |
| | | | Acid Extractable Tin (Sn) | 2021/07/06 | | 102 | % | 75 - 125 |
| | | | Acid Extractable Uranium (U) | 2021/07/06 | | 107 | % | 75 - 125 |
| | | | Acid Extractable Vanadium (V) | 2021/07/06 | | 97 | % | 75 - 125 |
| | | | Acid Extractable Zinc (Zn) | 2021/07/06 | | NC | % | 75 - 125 |
| 7445460 | BAN | Spiked Blank | Acid Extractable Antimony (Sb) | 2021/07/06 | | 110 | % | 75 - 125 |
| | | | Acid Extractable Arsenic (As) | 2021/07/06 | | 105 | % | 75 - 125 |
| | | | Acid Extractable Barium (Ba) | 2021/07/06 | | 103 | % | 75 - 125 |
| | | | Acid Extractable Beryllium (Be) | 2021/07/06 | | 102 | % | 75 - 125 |
| | | | Acid Extractable Bismuth (Bi) | 2021/07/06 | | 103 | % | 75 - 125 |
| | | | Acid Extractable Boron (B) | 2021/07/06 | | 106 | % | 75 - 125 |
| | | | Acid Extractable Cadmium (Cd) | 2021/07/06 | | 103 | % | 75 - 125 |
| | | | Acid Extractable Chromium (Cr) | 2021/07/06 | | 103 | % | 75 - 125 |
| | | | Acid Extractable Cobalt (Co) | 2021/07/06 | | 103 | % | 75 - 125 |
| | | | Acid Extractable Copper (Cu) | 2021/07/06 | | 106 | % | 75 - 125 |
| | | | Acid Extractable Lead (Pb) | 2021/07/06 | | 103 | % | 75 - 125 |
| | | | Acid Extractable Lithium (Li) | 2021/07/06 | | 108 | % | 75 - 125 |



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GHD Limited
 Client Project #: 11222385
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QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|----------------|------|--------------|----------------------------------|---------------|-------|----------|-------|-----------|
| | | | Acid Extractable Manganese (Mn) | 2021/07/06 | | 104 | % | 75 - 125 |
| | | | Acid Extractable Mercury (Hg) | 2021/07/06 | | 107 | % | 75 - 125 |
| | | | Acid Extractable Molybdenum (Mo) | 2021/07/06 | | 106 | % | 75 - 125 |
| | | | Acid Extractable Nickel (Ni) | 2021/07/06 | | 104 | % | 75 - 125 |
| | | | Acid Extractable Rubidium (Rb) | 2021/07/06 | | 102 | % | 75 - 125 |
| | | | Acid Extractable Selenium (Se) | 2021/07/06 | | 107 | % | 75 - 125 |
| | | | Acid Extractable Silver (Ag) | 2021/07/06 | | 102 | % | 75 - 125 |
| | | | Acid Extractable Strontium (Sr) | 2021/07/06 | | 104 | % | 75 - 125 |
| | | | Acid Extractable Thallium (Tl) | 2021/07/06 | | 104 | % | 75 - 125 |
| | | | Acid Extractable Tin (Sn) | 2021/07/06 | | 105 | % | 75 - 125 |
| | | | Acid Extractable Uranium (U) | 2021/07/06 | | 104 | % | 75 - 125 |
| | | | Acid Extractable Vanadium (V) | 2021/07/06 | | 101 | % | 75 - 125 |
| | | | Acid Extractable Zinc (Zn) | 2021/07/06 | | 102 | % | 75 - 125 |
| 7445460 | BAN | Method Blank | Acid Extractable Aluminum (Al) | 2021/07/06 | <10 | | mg/kg | |
| | | | Acid Extractable Antimony (Sb) | 2021/07/06 | <2.0 | | mg/kg | |
| | | | Acid Extractable Arsenic (As) | 2021/07/06 | <2.0 | | mg/kg | |
| | | | Acid Extractable Barium (Ba) | 2021/07/06 | <5.0 | | mg/kg | |
| | | | Acid Extractable Beryllium (Be) | 2021/07/06 | <2.0 | | mg/kg | |
| | | | Acid Extractable Bismuth (Bi) | 2021/07/06 | <2.0 | | mg/kg | |
| | | | Acid Extractable Boron (B) | 2021/07/06 | <50 | | mg/kg | |
| | | | Acid Extractable Cadmium (Cd) | 2021/07/06 | <0.30 | | mg/kg | |
| | | | Acid Extractable Chromium (Cr) | 2021/07/06 | <2.0 | | mg/kg | |
| | | | Acid Extractable Cobalt (Co) | 2021/07/06 | <1.0 | | mg/kg | |
| | | | Acid Extractable Copper (Cu) | 2021/07/06 | <2.0 | | mg/kg | |
| | | | Acid Extractable Iron (Fe) | 2021/07/06 | <50 | | mg/kg | |
| | | | Acid Extractable Lead (Pb) | 2021/07/06 | <0.50 | | mg/kg | |
| | | | Acid Extractable Lithium (Li) | 2021/07/06 | <2.0 | | mg/kg | |
| | | | Acid Extractable Manganese (Mn) | 2021/07/06 | <2.0 | | mg/kg | |
| | | | Acid Extractable Mercury (Hg) | 2021/07/06 | <0.10 | | mg/kg | |
| | | | Acid Extractable Molybdenum (Mo) | 2021/07/06 | <2.0 | | mg/kg | |
| | | | Acid Extractable Nickel (Ni) | 2021/07/06 | <2.0 | | mg/kg | |
| | | | Acid Extractable Rubidium (Rb) | 2021/07/06 | <2.0 | | mg/kg | |
| | | | Acid Extractable Selenium (Se) | 2021/07/06 | <0.50 | | mg/kg | |
| | | | Acid Extractable Silver (Ag) | 2021/07/06 | <0.50 | | mg/kg | |
| | | | Acid Extractable Strontium (Sr) | 2021/07/06 | <5.0 | | mg/kg | |
| | | | Acid Extractable Thallium (Tl) | 2021/07/06 | <0.10 | | mg/kg | |
| | | | Acid Extractable Tin (Sn) | 2021/07/06 | <1.0 | | mg/kg | |
| | | | Acid Extractable Uranium (U) | 2021/07/06 | <0.10 | | mg/kg | |
| | | | Acid Extractable Vanadium (V) | 2021/07/06 | <2.0 | | mg/kg | |
| | | | Acid Extractable Zinc (Zn) | 2021/07/06 | <5.0 | | mg/kg | |
| 7445460 | BAN | RPD | Acid Extractable Aluminum (Al) | 2021/07/06 | 2.8 | | % | 35 |
| | | | Acid Extractable Antimony (Sb) | 2021/07/06 | NC | | % | 35 |
| | | | Acid Extractable Arsenic (As) | 2021/07/06 | 8.5 | | % | 35 |
| | | | Acid Extractable Barium (Ba) | 2021/07/06 | 2.4 | | % | 35 |
| | | | Acid Extractable Beryllium (Be) | 2021/07/06 | NC | | % | 35 |
| | | | Acid Extractable Bismuth (Bi) | 2021/07/06 | NC | | % | 35 |
| | | | Acid Extractable Boron (B) | 2021/07/06 | NC | | % | 35 |
| | | | Acid Extractable Cadmium (Cd) | 2021/07/06 | NC | | % | 35 |
| | | | Acid Extractable Chromium (Cr) | 2021/07/06 | 5.5 | | % | 35 |
| | | | Acid Extractable Cobalt (Co) | 2021/07/06 | 4.4 | | % | 35 |
| | | | Acid Extractable Copper (Cu) | 2021/07/06 | 16 | | % | 35 |
| | | | Acid Extractable Iron (Fe) | 2021/07/06 | 3.3 | | % | 35 |



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GHD Limited
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QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|-------------|------|--------------------------|----------------------------------|---------------|-------|----------|-------|-----------|
| | | | Acid Extractable Lead (Pb) | 2021/07/06 | 2.6 | | % | 35 |
| | | | Acid Extractable Lithium (Li) | 2021/07/06 | 0.31 | | % | 35 |
| | | | Acid Extractable Manganese (Mn) | 2021/07/06 | 2.7 | | % | 35 |
| | | | Acid Extractable Mercury (Hg) | 2021/07/06 | NC | | % | 35 |
| | | | Acid Extractable Molybdenum (Mo) | 2021/07/06 | NC | | % | 35 |
| | | | Acid Extractable Nickel (Ni) | 2021/07/06 | 24 | | % | 35 |
| | | | Acid Extractable Rubidium (Rb) | 2021/07/06 | 3.7 | | % | 35 |
| | | | Acid Extractable Selenium (Se) | 2021/07/06 | NC | | % | 35 |
| | | | Acid Extractable Silver (Ag) | 2021/07/06 | NC | | % | 35 |
| | | | Acid Extractable Strontium (Sr) | 2021/07/06 | 17 | | % | 35 |
| | | | Acid Extractable Thallium (Tl) | 2021/07/06 | NC | | % | 35 |
| | | | Acid Extractable Tin (Sn) | 2021/07/06 | NC | | % | 35 |
| | | | Acid Extractable Uranium (U) | 2021/07/06 | 9.9 | | % | 35 |
| | | | Acid Extractable Vanadium (V) | 2021/07/06 | 1.1 | | % | 35 |
| | | | Acid Extractable Zinc (Zn) | 2021/07/06 | 0.91 | | % | 35 |
| 7445462 | MLB | Matrix Spike [PXP340-01] | Acid Extractable Antimony (Sb) | 2021/07/07 | | NC | % | 75 - 125 |
| | | | Acid Extractable Arsenic (As) | 2021/07/07 | | NC | % | 75 - 125 |
| | | | Acid Extractable Barium (Ba) | 2021/07/07 | | 103 | % | 75 - 125 |
| | | | Acid Extractable Beryllium (Be) | 2021/07/07 | | 94 | % | 75 - 125 |
| | | | Acid Extractable Bismuth (Bi) | 2021/07/07 | | 104 | % | 75 - 125 |
| | | | Acid Extractable Boron (B) | 2021/07/07 | | 92 | % | 75 - 125 |
| | | | Acid Extractable Cadmium (Cd) | 2021/07/07 | | 100 | % | 75 - 125 |
| | | | Acid Extractable Chromium (Cr) | 2021/07/07 | | 99 | % | 75 - 125 |
| | | | Acid Extractable Cobalt (Co) | 2021/07/07 | | 100 | % | 75 - 125 |
| | | | Acid Extractable Copper (Cu) | 2021/07/07 | | 100 | % | 75 - 125 |
| | | | Acid Extractable Lead (Pb) | 2021/07/07 | | NC | % | 75 - 125 |
| | | | Acid Extractable Lithium (Li) | 2021/07/07 | | 100 | % | 75 - 125 |
| | | | Acid Extractable Manganese (Mn) | 2021/07/07 | | NC | % | 75 - 125 |
| | | | Acid Extractable Mercury (Hg) | 2021/07/07 | | NC | % | 75 - 125 |
| | | | Acid Extractable Molybdenum (Mo) | 2021/07/07 | | 102 | % | 75 - 125 |
| | | | Acid Extractable Nickel (Ni) | 2021/07/07 | | 100 | % | 75 - 125 |
| | | | Acid Extractable Rubidium (Rb) | 2021/07/07 | | 99 | % | 75 - 125 |
| | | | Acid Extractable Selenium (Se) | 2021/07/07 | | 102 | % | 75 - 125 |
| | | | Acid Extractable Silver (Ag) | 2021/07/07 | | 98 | % | 75 - 125 |
| | | | Acid Extractable Strontium (Sr) | 2021/07/07 | | 102 | % | 75 - 125 |
| | | | Acid Extractable Thallium (Tl) | 2021/07/07 | | 105 | % | 75 - 125 |
| | | | Acid Extractable Tin (Sn) | 2021/07/07 | | 101 | % | 75 - 125 |
| | | | Acid Extractable Uranium (U) | 2021/07/07 | | 105 | % | 75 - 125 |
| | | | Acid Extractable Vanadium (V) | 2021/07/07 | | 101 | % | 75 - 125 |
| | | | Acid Extractable Zinc (Zn) | 2021/07/07 | | 97 | % | 75 - 125 |
| 7445462 | MLB | Spiked Blank | Acid Extractable Antimony (Sb) | 2021/07/06 | | 100 | % | 75 - 125 |
| | | | Acid Extractable Arsenic (As) | 2021/07/06 | | 99 | % | 75 - 125 |
| | | | Acid Extractable Barium (Ba) | 2021/07/06 | | 95 | % | 75 - 125 |
| | | | Acid Extractable Beryllium (Be) | 2021/07/06 | | 90 | % | 75 - 125 |
| | | | Acid Extractable Bismuth (Bi) | 2021/07/06 | | 97 | % | 75 - 125 |
| | | | Acid Extractable Boron (B) | 2021/07/06 | | 94 | % | 75 - 125 |
| | | | Acid Extractable Cadmium (Cd) | 2021/07/06 | | 95 | % | 75 - 125 |
| | | | Acid Extractable Chromium (Cr) | 2021/07/06 | | 97 | % | 75 - 125 |
| | | | Acid Extractable Cobalt (Co) | 2021/07/06 | | 97 | % | 75 - 125 |
| | | | Acid Extractable Copper (Cu) | 2021/07/06 | | 97 | % | 75 - 125 |
| | | | Acid Extractable Lead (Pb) | 2021/07/06 | | 97 | % | 75 - 125 |
| | | | Acid Extractable Lithium (Li) | 2021/07/06 | | 96 | % | 75 - 125 |



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QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|-------------|------|-----------------|----------------------------------|---------------|-------|----------|-------|-----------|
| | | | Acid Extractable Manganese (Mn) | 2021/07/06 | | 98 | % | 75 - 125 |
| | | | Acid Extractable Mercury (Hg) | 2021/07/06 | | 97 | % | 75 - 125 |
| | | | Acid Extractable Molybdenum (Mo) | 2021/07/06 | | 97 | % | 75 - 125 |
| | | | Acid Extractable Nickel (Ni) | 2021/07/06 | | 97 | % | 75 - 125 |
| | | | Acid Extractable Rubidium (Rb) | 2021/07/06 | | 94 | % | 75 - 125 |
| | | | Acid Extractable Selenium (Se) | 2021/07/06 | | 100 | % | 75 - 125 |
| | | | Acid Extractable Silver (Ag) | 2021/07/06 | | 96 | % | 75 - 125 |
| | | | Acid Extractable Strontium (Sr) | 2021/07/06 | | 96 | % | 75 - 125 |
| | | | Acid Extractable Thallium (Tl) | 2021/07/06 | | 98 | % | 75 - 125 |
| | | | Acid Extractable Tin (Sn) | 2021/07/06 | | 96 | % | 75 - 125 |
| | | | Acid Extractable Uranium (U) | 2021/07/06 | | 94 | % | 75 - 125 |
| | | | Acid Extractable Vanadium (V) | 2021/07/06 | | 96 | % | 75 - 125 |
| | | | Acid Extractable Zinc (Zn) | 2021/07/06 | | 95 | % | 75 - 125 |
| 7445462 | MLB | Method Blank | Acid Extractable Aluminum (Al) | 2021/07/06 | <10 | | mg/kg | |
| | | | Acid Extractable Antimony (Sb) | 2021/07/06 | <2.0 | | mg/kg | |
| | | | Acid Extractable Arsenic (As) | 2021/07/06 | <2.0 | | mg/kg | |
| | | | Acid Extractable Barium (Ba) | 2021/07/06 | <5.0 | | mg/kg | |
| | | | Acid Extractable Beryllium (Be) | 2021/07/06 | <2.0 | | mg/kg | |
| | | | Acid Extractable Bismuth (Bi) | 2021/07/06 | <2.0 | | mg/kg | |
| | | | Acid Extractable Boron (B) | 2021/07/06 | <50 | | mg/kg | |
| | | | Acid Extractable Cadmium (Cd) | 2021/07/06 | <0.30 | | mg/kg | |
| | | | Acid Extractable Chromium (Cr) | 2021/07/06 | <2.0 | | mg/kg | |
| | | | Acid Extractable Cobalt (Co) | 2021/07/06 | <1.0 | | mg/kg | |
| | | | Acid Extractable Copper (Cu) | 2021/07/06 | <2.0 | | mg/kg | |
| | | | Acid Extractable Iron (Fe) | 2021/07/06 | <50 | | mg/kg | |
| | | | Acid Extractable Lead (Pb) | 2021/07/06 | <0.50 | | mg/kg | |
| | | | Acid Extractable Lithium (Li) | 2021/07/06 | <2.0 | | mg/kg | |
| | | | Acid Extractable Manganese (Mn) | 2021/07/06 | <2.0 | | mg/kg | |
| | | | Acid Extractable Mercury (Hg) | 2021/07/06 | <0.10 | | mg/kg | |
| | | | Acid Extractable Molybdenum (Mo) | 2021/07/06 | <2.0 | | mg/kg | |
| | | | Acid Extractable Nickel (Ni) | 2021/07/06 | <2.0 | | mg/kg | |
| | | | Acid Extractable Rubidium (Rb) | 2021/07/06 | <2.0 | | mg/kg | |
| | | | Acid Extractable Selenium (Se) | 2021/07/06 | <0.50 | | mg/kg | |
| | | | Acid Extractable Silver (Ag) | 2021/07/06 | <0.50 | | mg/kg | |
| | | | Acid Extractable Strontium (Sr) | 2021/07/06 | <5.0 | | mg/kg | |
| | | | Acid Extractable Thallium (Tl) | 2021/07/06 | <0.10 | | mg/kg | |
| | | | Acid Extractable Tin (Sn) | 2021/07/06 | <1.0 | | mg/kg | |
| | | | Acid Extractable Uranium (U) | 2021/07/06 | <0.10 | | mg/kg | |
| | | | Acid Extractable Vanadium (V) | 2021/07/06 | <2.0 | | mg/kg | |
| | | | Acid Extractable Zinc (Zn) | 2021/07/06 | <5.0 | | mg/kg | |
| 7445462 | MLB | RPD [PXP340-01] | Acid Extractable Aluminum (Al) | 2021/07/07 | 2.7 | | % | 35 |
| | | | Acid Extractable Antimony (Sb) | 2021/07/07 | 1.4 | | % | 35 |
| | | | Acid Extractable Arsenic (As) | 2021/07/07 | 5.3 | | % | 35 |
| | | | Acid Extractable Barium (Ba) | 2021/07/07 | 0.83 | | % | 35 |
| | | | Acid Extractable Beryllium (Be) | 2021/07/07 | NC | | % | 35 |
| | | | Acid Extractable Bismuth (Bi) | 2021/07/07 | NC | | % | 35 |
| | | | Acid Extractable Boron (B) | 2021/07/07 | NC | | % | 35 |
| | | | Acid Extractable Cadmium (Cd) | 2021/07/07 | NC | | % | 35 |
| | | | Acid Extractable Chromium (Cr) | 2021/07/07 | 0.48 | | % | 35 |
| | | | Acid Extractable Cobalt (Co) | 2021/07/07 | 0.26 | | % | 35 |
| | | | Acid Extractable Copper (Cu) | 2021/07/07 | 3.7 | | % | 35 |
| | | | Acid Extractable Iron (Fe) | 2021/07/07 | 2.9 | | % | 35 |



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GHD Limited
 Client Project #: 11222385
 Site Location: GOLDBORO
 Your P.O. #: TO FOLLOW
 Sampler Initials: JV

QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|-------------|------|--------------------------|----------------------------------|---------------|--------|----------|-------|-----------|
| | | | Acid Extractable Lead (Pb) | 2021/07/07 | 4.4 | | % | 35 |
| | | | Acid Extractable Lithium (Li) | 2021/07/07 | 3.0 | | % | 35 |
| | | | Acid Extractable Manganese (Mn) | 2021/07/07 | 0.31 | | % | 35 |
| | | | Acid Extractable Mercury (Hg) | 2021/07/07 | 2.9 | | % | 35 |
| | | | Acid Extractable Molybdenum (Mo) | 2021/07/07 | NC | | % | 35 |
| | | | Acid Extractable Nickel (Ni) | 2021/07/07 | 0.34 | | % | 35 |
| | | | Acid Extractable Rubidium (Rb) | 2021/07/07 | 1.4 | | % | 35 |
| | | | Acid Extractable Selenium (Se) | 2021/07/07 | NC | | % | 35 |
| | | | Acid Extractable Silver (Ag) | 2021/07/07 | 14 | | % | 35 |
| | | | Acid Extractable Strontium (Sr) | 2021/07/07 | 6.0 | | % | 35 |
| | | | Acid Extractable Thallium (Tl) | 2021/07/07 | 0.78 | | % | 35 |
| | | | Acid Extractable Tin (Sn) | 2021/07/07 | NC | | % | 35 |
| | | | Acid Extractable Uranium (U) | 2021/07/07 | 4.7 | | % | 35 |
| | | | Acid Extractable Vanadium (V) | 2021/07/07 | 0.66 | | % | 35 |
| | | | Acid Extractable Zinc (Zn) | 2021/07/07 | 6.4 | | % | 35 |
| 7445697 | EMT | Matrix Spike [PXP295-01] | Chloride (Cl-) | 2021/07/06 | | 99 | % | 75 - 125 |
| 7445697 | EMT | Spiked Blank | Chloride (Cl-) | 2021/07/06 | | 102 | % | 80 - 120 |
| 7445697 | EMT | Method Blank | Chloride (Cl-) | 2021/07/06 | <5.0 | | mg/kg | |
| 7445697 | EMT | RPD [PXP295-01] | Chloride (Cl-) | 2021/07/06 | 25 | | % | 30 |
| 7445708 | EMT | Matrix Spike [PXP295-01] | Sulphate (SO4) | 2021/07/06 | | 111 | % | 75 - 125 |
| 7445708 | EMT | Spiked Blank | Sulphate (SO4) | 2021/07/06 | | 106 | % | 80 - 120 |
| 7445708 | EMT | Method Blank | Sulphate (SO4) | 2021/07/06 | <10 | | mg/kg | |
| 7445708 | EMT | RPD [PXP295-01] | Sulphate (SO4) | 2021/07/06 | NC | | % | 30 |
| 7445711 | EMT | Matrix Spike [PXP295-01] | Orthophosphate (P) | 2021/07/06 | | NC | % | 75 - 125 |
| 7445711 | EMT | Spiked Blank | Orthophosphate (P) | 2021/07/06 | | 97 | % | 80 - 120 |
| 7445711 | EMT | Method Blank | Orthophosphate (P) | 2021/07/06 | <0.050 | | mg/kg | |
| 7445711 | EMT | RPD [PXP295-01] | Orthophosphate (P) | 2021/07/06 | 5.1 | | % | 30 |
| 7445714 | EMT | Matrix Spike [PXP295-01] | Nitrate + Nitrite (N) | 2021/07/06 | | 86 | % | 75 - 125 |
| 7445714 | EMT | Spiked Blank | Nitrate + Nitrite (N) | 2021/07/06 | | 88 | % | 80 - 120 |
| 7445714 | EMT | Method Blank | Nitrate + Nitrite (N) | 2021/07/06 | <0.25 | | mg/kg | |
| 7445714 | EMT | RPD [PXP295-01] | Nitrate + Nitrite (N) | 2021/07/06 | NC | | % | 30 |
| 7445715 | EMT | Matrix Spike [PXP295-01] | Nitrite (N) | 2021/07/06 | | 93 | % | 75 - 125 |
| 7445715 | EMT | Spiked Blank | Nitrite (N) | 2021/07/06 | | 100 | % | 80 - 120 |
| 7445715 | EMT | Method Blank | Nitrite (N) | 2021/07/06 | <0.050 | | mg/kg | |
| 7445715 | EMT | RPD [PXP295-01] | Nitrite (N) | 2021/07/06 | NC | | % | 30 |
| 7445881 | AHK | QC Standard | Total Sulphur (S) | 2021/07/05 | | 94 | % | 77 - 128 |
| 7445881 | AHK | Method Blank | Total Sulphur (S) | 2021/07/05 | <0.010 | | % g/g | |
| 7445881 | AHK | RPD [PXP280-03] | Total Sulphur (S) | 2021/07/05 | 0.26 | | % | 30 |
| 7446049 | MLB | Matrix Spike [PXP344-01] | Acid Extractable Antimony (Sb) | 2021/07/07 | | NC | % | 75 - 125 |
| | | | Acid Extractable Arsenic (As) | 2021/07/07 | | NC | % | 75 - 125 |
| | | | Acid Extractable Barium (Ba) | 2021/07/07 | | 120 | % | 75 - 125 |
| | | | Acid Extractable Beryllium (Be) | 2021/07/07 | | 97 | % | 75 - 125 |
| | | | Acid Extractable Bismuth (Bi) | 2021/07/07 | | 110 | % | 75 - 125 |
| | | | Acid Extractable Boron (B) | 2021/07/07 | | 93 | % | 75 - 125 |
| | | | Acid Extractable Cadmium (Cd) | 2021/07/07 | | 104 | % | 75 - 125 |
| | | | Acid Extractable Chromium (Cr) | 2021/07/07 | | 104 | % | 75 - 125 |
| | | | Acid Extractable Cobalt (Co) | 2021/07/07 | | 104 | % | 75 - 125 |
| | | | Acid Extractable Copper (Cu) | 2021/07/07 | | 109 | % | 75 - 125 |
| | | | Acid Extractable Lead (Pb) | 2021/07/07 | | NC | % | 75 - 125 |
| | | | Acid Extractable Lithium (Li) | 2021/07/07 | | 104 | % | 75 - 125 |
| | | | Acid Extractable Manganese (Mn) | 2021/07/07 | | NC | % | 75 - 125 |
| | | | Acid Extractable Mercury (Hg) | 2021/07/07 | | 84 | % | 75 - 125 |



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GHD Limited
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 Site Location: GOLDBORO
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QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC | Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---------|-------|------|--------------|----------------------------------|---------------|-------|----------|-------|-----------|
| | | | | Acid Extractable Molybdenum (Mo) | 2021/07/07 | | 107 | % | 75 - 125 |
| | | | | Acid Extractable Nickel (Ni) | 2021/07/07 | | 104 | % | 75 - 125 |
| | | | | Acid Extractable Rubidium (Rb) | 2021/07/07 | | 104 | % | 75 - 125 |
| | | | | Acid Extractable Selenium (Se) | 2021/07/07 | | 107 | % | 75 - 125 |
| | | | | Acid Extractable Silver (Ag) | 2021/07/07 | | 110 | % | 75 - 125 |
| | | | | Acid Extractable Strontium (Sr) | 2021/07/07 | | 109 | % | 75 - 125 |
| | | | | Acid Extractable Thallium (Tl) | 2021/07/07 | | 108 | % | 75 - 125 |
| | | | | Acid Extractable Tin (Sn) | 2021/07/07 | | 108 | % | 75 - 125 |
| | | | | Acid Extractable Uranium (U) | 2021/07/07 | | 113 | % | 75 - 125 |
| | | | | Acid Extractable Vanadium (V) | 2021/07/07 | | 107 | % | 75 - 125 |
| | | | | Acid Extractable Zinc (Zn) | 2021/07/07 | | 107 | % | 75 - 125 |
| 7446049 | MLB | | Spiked Blank | Acid Extractable Antimony (Sb) | 2021/07/06 | | 105 | % | 75 - 125 |
| | | | | Acid Extractable Arsenic (As) | 2021/07/06 | | 100 | % | 75 - 125 |
| | | | | Acid Extractable Barium (Ba) | 2021/07/06 | | 97 | % | 75 - 125 |
| | | | | Acid Extractable Beryllium (Be) | 2021/07/06 | | 92 | % | 75 - 125 |
| | | | | Acid Extractable Bismuth (Bi) | 2021/07/06 | | 99 | % | 75 - 125 |
| | | | | Acid Extractable Boron (B) | 2021/07/06 | | 95 | % | 75 - 125 |
| | | | | Acid Extractable Cadmium (Cd) | 2021/07/06 | | 97 | % | 75 - 125 |
| | | | | Acid Extractable Chromium (Cr) | 2021/07/06 | | 98 | % | 75 - 125 |
| | | | | Acid Extractable Cobalt (Co) | 2021/07/06 | | 99 | % | 75 - 125 |
| | | | | Acid Extractable Copper (Cu) | 2021/07/06 | | 98 | % | 75 - 125 |
| | | | | Acid Extractable Lead (Pb) | 2021/07/06 | | 99 | % | 75 - 125 |
| | | | | Acid Extractable Lithium (Li) | 2021/07/06 | | 100 | % | 75 - 125 |
| | | | | Acid Extractable Manganese (Mn) | 2021/07/06 | | 100 | % | 75 - 125 |
| | | | | Acid Extractable Mercury (Hg) | 2021/07/06 | | 100 | % | 75 - 125 |
| | | | | Acid Extractable Molybdenum (Mo) | 2021/07/06 | | 102 | % | 75 - 125 |
| | | | | Acid Extractable Nickel (Ni) | 2021/07/06 | | 99 | % | 75 - 125 |
| | | | | Acid Extractable Rubidium (Rb) | 2021/07/06 | | 95 | % | 75 - 125 |
| | | | | Acid Extractable Selenium (Se) | 2021/07/06 | | 102 | % | 75 - 125 |
| | | | | Acid Extractable Silver (Ag) | 2021/07/06 | | 98 | % | 75 - 125 |
| | | | | Acid Extractable Strontium (Sr) | 2021/07/06 | | 100 | % | 75 - 125 |
| | | | | Acid Extractable Thallium (Tl) | 2021/07/06 | | 101 | % | 75 - 125 |
| | | | | Acid Extractable Tin (Sn) | 2021/07/06 | | 102 | % | 75 - 125 |
| | | | | Acid Extractable Uranium (U) | 2021/07/06 | | 98 | % | 75 - 125 |
| | | | | Acid Extractable Vanadium (V) | 2021/07/06 | | 98 | % | 75 - 125 |
| | | | | Acid Extractable Zinc (Zn) | 2021/07/06 | | 101 | % | 75 - 125 |
| 7446049 | MLB | | Method Blank | Acid Extractable Aluminum (Al) | 2021/07/06 | <10 | | mg/kg | |
| | | | | Acid Extractable Antimony (Sb) | 2021/07/06 | <2.0 | | mg/kg | |
| | | | | Acid Extractable Arsenic (As) | 2021/07/06 | <2.0 | | mg/kg | |
| | | | | Acid Extractable Barium (Ba) | 2021/07/06 | <5.0 | | mg/kg | |
| | | | | Acid Extractable Beryllium (Be) | 2021/07/06 | <2.0 | | mg/kg | |
| | | | | Acid Extractable Bismuth (Bi) | 2021/07/06 | <2.0 | | mg/kg | |
| | | | | Acid Extractable Boron (B) | 2021/07/06 | <50 | | mg/kg | |
| | | | | Acid Extractable Cadmium (Cd) | 2021/07/06 | <0.30 | | mg/kg | |
| | | | | Acid Extractable Chromium (Cr) | 2021/07/06 | <2.0 | | mg/kg | |
| | | | | Acid Extractable Cobalt (Co) | 2021/07/06 | <1.0 | | mg/kg | |
| | | | | Acid Extractable Copper (Cu) | 2021/07/06 | <2.0 | | mg/kg | |
| | | | | Acid Extractable Iron (Fe) | 2021/07/06 | <50 | | mg/kg | |
| | | | | Acid Extractable Lead (Pb) | 2021/07/06 | <0.50 | | mg/kg | |
| | | | | Acid Extractable Lithium (Li) | 2021/07/06 | <2.0 | | mg/kg | |
| | | | | Acid Extractable Manganese (Mn) | 2021/07/06 | <2.0 | | mg/kg | |
| | | | | Acid Extractable Mercury (Hg) | 2021/07/06 | <0.10 | | mg/kg | |



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GHD Limited
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QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC | Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---------|-------|--------------|-------------|----------------------------------|---------------|-------|----------|-------|-----------|
| | | | | Acid Extractable Molybdenum (Mo) | 2021/07/06 | <2.0 | | mg/kg | |
| | | | | Acid Extractable Nickel (Ni) | 2021/07/06 | <2.0 | | mg/kg | |
| | | | | Acid Extractable Rubidium (Rb) | 2021/07/06 | <2.0 | | mg/kg | |
| | | | | Acid Extractable Selenium (Se) | 2021/07/06 | <0.50 | | mg/kg | |
| | | | | Acid Extractable Silver (Ag) | 2021/07/06 | <0.50 | | mg/kg | |
| | | | | Acid Extractable Strontium (Sr) | 2021/07/06 | <5.0 | | mg/kg | |
| | | | | Acid Extractable Thallium (Tl) | 2021/07/06 | <0.10 | | mg/kg | |
| | | | | Acid Extractable Tin (Sn) | 2021/07/06 | <1.0 | | mg/kg | |
| | | | | Acid Extractable Uranium (U) | 2021/07/06 | <0.10 | | mg/kg | |
| | | | | Acid Extractable Vanadium (V) | 2021/07/06 | <2.0 | | mg/kg | |
| | | | | Acid Extractable Zinc (Zn) | 2021/07/06 | <5.0 | | mg/kg | |
| 7446049 | MLB | RPD | [PXP344-01] | Acid Extractable Aluminum (Al) | 2021/07/07 | 0.37 | | % | 35 |
| | | | | Acid Extractable Antimony (Sb) | 2021/07/07 | 12 | | % | 35 |
| | | | | Acid Extractable Arsenic (As) | 2021/07/07 | 9.7 | | % | 35 |
| | | | | Acid Extractable Barium (Ba) | 2021/07/07 | 3.3 | | % | 35 |
| | | | | Acid Extractable Beryllium (Be) | 2021/07/07 | NC | | % | 35 |
| | | | | Acid Extractable Bismuth (Bi) | 2021/07/07 | NC | | % | 35 |
| | | | | Acid Extractable Boron (B) | 2021/07/07 | NC | | % | 35 |
| | | | | Acid Extractable Cadmium (Cd) | 2021/07/07 | NC | | % | 35 |
| | | | | Acid Extractable Chromium (Cr) | 2021/07/07 | 3.1 | | % | 35 |
| | | | | Acid Extractable Cobalt (Co) | 2021/07/07 | 1.8 | | % | 35 |
| | | | | Acid Extractable Copper (Cu) | 2021/07/07 | 4.3 | | % | 35 |
| | | | | Acid Extractable Iron (Fe) | 2021/07/07 | 7.5 | | % | 35 |
| | | | | Acid Extractable Lead (Pb) | 2021/07/07 | 6.5 | | % | 35 |
| | | | | Acid Extractable Lithium (Li) | 2021/07/07 | 1.2 | | % | 35 |
| | | | | Acid Extractable Manganese (Mn) | 2021/07/07 | 1.3 | | % | 35 |
| | | | | Acid Extractable Mercury (Hg) | 2021/07/07 | 26 | | % | 35 |
| | | | | Acid Extractable Molybdenum (Mo) | 2021/07/07 | NC | | % | 35 |
| | | | | Acid Extractable Nickel (Ni) | 2021/07/07 | 0.15 | | % | 35 |
| | | | | Acid Extractable Rubidium (Rb) | 2021/07/07 | 6.2 | | % | 35 |
| | | | | Acid Extractable Selenium (Se) | 2021/07/07 | 3.3 | | % | 35 |
| | | | | Acid Extractable Silver (Ag) | 2021/07/07 | 31 | | % | 35 |
| | | | | Acid Extractable Strontium (Sr) | 2021/07/07 | 11 | | % | 35 |
| | | | | Acid Extractable Thallium (Tl) | 2021/07/07 | 9.5 | | % | 35 |
| | | | | Acid Extractable Tin (Sn) | 2021/07/07 | 3.7 | | % | 35 |
| | | | | Acid Extractable Uranium (U) | 2021/07/07 | 9.8 | | % | 35 |
| | | | | Acid Extractable Vanadium (V) | 2021/07/07 | 0.77 | | % | 35 |
| | | | | Acid Extractable Zinc (Zn) | 2021/07/07 | 2.5 | | % | 35 |
| 7446056 | BAN | Matrix Spike | | Acid Extractable Antimony (Sb) | 2021/07/07 | | 90 | % | 75 - 125 |
| | | | | Acid Extractable Arsenic (As) | 2021/07/07 | | 98 | % | 75 - 125 |
| | | | | Acid Extractable Barium (Ba) | 2021/07/07 | | NC | % | 75 - 125 |
| | | | | Acid Extractable Beryllium (Be) | 2021/07/07 | | 100 | % | 75 - 125 |
| | | | | Acid Extractable Bismuth (Bi) | 2021/07/07 | | 99 | % | 75 - 125 |
| | | | | Acid Extractable Boron (B) | 2021/07/07 | | 93 | % | 75 - 125 |
| | | | | Acid Extractable Cadmium (Cd) | 2021/07/07 | | 96 | % | 75 - 125 |
| | | | | Acid Extractable Chromium (Cr) | 2021/07/07 | | 102 | % | 75 - 125 |
| | | | | Acid Extractable Cobalt (Co) | 2021/07/07 | | 99 | % | 75 - 125 |
| | | | | Acid Extractable Copper (Cu) | 2021/07/07 | | 100 | % | 75 - 125 |
| | | | | Acid Extractable Lead (Pb) | 2021/07/07 | | 98 | % | 75 - 125 |
| | | | | Acid Extractable Lithium (Li) | 2021/07/07 | | 109 | % | 75 - 125 |
| | | | | Acid Extractable Manganese (Mn) | 2021/07/07 | | NC | % | 75 - 125 |
| | | | | Acid Extractable Mercury (Hg) | 2021/07/07 | | 95 | % | 75 - 125 |



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QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|---------------------------------|------------|--------------|----------------------------------|---------------|----------|----------|-------|-----------|
| 7446056 | BAN | Spiked Blank | Acid Extractable Molybdenum (Mo) | 2021/07/07 | | 99 | % | 75 - 125 |
| | | | Acid Extractable Nickel (Ni) | 2021/07/07 | | 99 | % | 75 - 125 |
| | | | Acid Extractable Rubidium (Rb) | 2021/07/07 | | 96 | % | 75 - 125 |
| | | | Acid Extractable Selenium (Se) | 2021/07/07 | | 100 | % | 75 - 125 |
| | | | Acid Extractable Silver (Ag) | 2021/07/07 | | 100 | % | 75 - 125 |
| | | | Acid Extractable Strontium (Sr) | 2021/07/07 | | 103 | % | 75 - 125 |
| | | | Acid Extractable Thallium (Tl) | 2021/07/07 | | 99 | % | 75 - 125 |
| | | | Acid Extractable Tin (Sn) | 2021/07/07 | | 101 | % | 75 - 125 |
| | | | Acid Extractable Uranium (U) | 2021/07/07 | | 98 | % | 75 - 125 |
| | | | Acid Extractable Vanadium (V) | 2021/07/07 | | 103 | % | 75 - 125 |
| | | | Acid Extractable Zinc (Zn) | 2021/07/07 | | NC | % | 75 - 125 |
| | | | Acid Extractable Antimony (Sb) | 2021/07/07 | | 99 | % | 75 - 125 |
| | | | Acid Extractable Arsenic (As) | 2021/07/07 | | 100 | % | 75 - 125 |
| | | | Acid Extractable Barium (Ba) | 2021/07/07 | | 98 | % | 75 - 125 |
| | | | Acid Extractable Beryllium (Be) | 2021/07/07 | | 95 | % | 75 - 125 |
| | | | Acid Extractable Bismuth (Bi) | 2021/07/07 | | 99 | % | 75 - 125 |
| | | | Acid Extractable Boron (B) | 2021/07/07 | | 95 | % | 75 - 125 |
| | | | Acid Extractable Cadmium (Cd) | 2021/07/07 | | 94 | % | 75 - 125 |
| | | | Acid Extractable Chromium (Cr) | 2021/07/07 | | 100 | % | 75 - 125 |
| | | | Acid Extractable Cobalt (Co) | 2021/07/07 | | 100 | % | 75 - 125 |
| | | | Acid Extractable Copper (Cu) | 2021/07/07 | | 100 | % | 75 - 125 |
| | | | Acid Extractable Lead (Pb) | 2021/07/07 | | 98 | % | 75 - 125 |
| | | | Acid Extractable Lithium (Li) | 2021/07/07 | | 99 | % | 75 - 125 |
| | | | Acid Extractable Manganese (Mn) | 2021/07/07 | | 102 | % | 75 - 125 |
| | | | Acid Extractable Mercury (Hg) | 2021/07/07 | | 98 | % | 75 - 125 |
| | | | Acid Extractable Molybdenum (Mo) | 2021/07/07 | | 99 | % | 75 - 125 |
| | | | Acid Extractable Nickel (Ni) | 2021/07/07 | | 101 | % | 75 - 125 |
| | | | Acid Extractable Rubidium (Rb) | 2021/07/07 | | 98 | % | 75 - 125 |
| | | | Acid Extractable Selenium (Se) | 2021/07/07 | | 101 | % | 75 - 125 |
| | | | Acid Extractable Silver (Ag) | 2021/07/07 | | 99 | % | 75 - 125 |
| | | | Acid Extractable Strontium (Sr) | 2021/07/07 | | 97 | % | 75 - 125 |
| | | | Acid Extractable Thallium (Tl) | 2021/07/07 | | 99 | % | 75 - 125 |
| Acid Extractable Tin (Sn) | 2021/07/07 | | 97 | % | 75 - 125 | | | |
| Acid Extractable Uranium (U) | 2021/07/07 | | 97 | % | 75 - 125 | | | |
| Acid Extractable Vanadium (V) | 2021/07/07 | | 100 | % | 75 - 125 | | | |
| Acid Extractable Zinc (Zn) | 2021/07/07 | | 101 | % | 75 - 125 | | | |
| 7446056 | BAN | Method Blank | Acid Extractable Aluminum (Al) | 2021/07/07 | <10 | | mg/kg | |
| | | | Acid Extractable Antimony (Sb) | 2021/07/07 | <2.0 | | mg/kg | |
| | | | Acid Extractable Arsenic (As) | 2021/07/07 | <2.0 | | mg/kg | |
| | | | Acid Extractable Barium (Ba) | 2021/07/07 | <5.0 | | mg/kg | |
| | | | Acid Extractable Beryllium (Be) | 2021/07/07 | <2.0 | | mg/kg | |
| | | | Acid Extractable Bismuth (Bi) | 2021/07/07 | <2.0 | | mg/kg | |
| | | | Acid Extractable Boron (B) | 2021/07/07 | <50 | | mg/kg | |
| | | | Acid Extractable Cadmium (Cd) | 2021/07/07 | <0.30 | | mg/kg | |
| | | | Acid Extractable Chromium (Cr) | 2021/07/07 | <2.0 | | mg/kg | |
| | | | Acid Extractable Cobalt (Co) | 2021/07/07 | <1.0 | | mg/kg | |
| | | | Acid Extractable Copper (Cu) | 2021/07/07 | <2.0 | | mg/kg | |
| | | | Acid Extractable Iron (Fe) | 2021/07/07 | <50 | | mg/kg | |
| | | | Acid Extractable Lead (Pb) | 2021/07/07 | <0.50 | | mg/kg | |
| | | | Acid Extractable Lithium (Li) | 2021/07/07 | <2.0 | | mg/kg | |
| Acid Extractable Manganese (Mn) | 2021/07/07 | <2.0 | | mg/kg | | | | |
| Acid Extractable Mercury (Hg) | 2021/07/07 | <0.10 | | mg/kg | | | | |



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GHD Limited
 Client Project #: 11222385
 Site Location: GOLDBORO
 Your P.O. #: TO FOLLOW
 Sampler Initials: JV

QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|--------------------------------|------------|--------------------------|----------------------------------|---------------|-------|----------|-------|-----------|
| 7446056 | BAN | RPD | Acid Extractable Molybdenum (Mo) | 2021/07/07 | <2.0 | | mg/kg | |
| | | | Acid Extractable Nickel (Ni) | 2021/07/07 | <2.0 | | mg/kg | |
| | | | Acid Extractable Rubidium (Rb) | 2021/07/07 | <2.0 | | mg/kg | |
| | | | Acid Extractable Selenium (Se) | 2021/07/07 | <0.50 | | mg/kg | |
| | | | Acid Extractable Silver (Ag) | 2021/07/07 | <0.50 | | mg/kg | |
| | | | Acid Extractable Strontium (Sr) | 2021/07/07 | <5.0 | | mg/kg | |
| | | | Acid Extractable Thallium (Tl) | 2021/07/07 | <0.10 | | mg/kg | |
| | | | Acid Extractable Tin (Sn) | 2021/07/07 | <1.0 | | mg/kg | |
| | | | Acid Extractable Uranium (U) | 2021/07/07 | <0.10 | | mg/kg | |
| | | | Acid Extractable Vanadium (V) | 2021/07/07 | <2.0 | | mg/kg | |
| | | | Acid Extractable Zinc (Zn) | 2021/07/07 | <5.0 | | mg/kg | |
| | | | Acid Extractable Aluminum (Al) | 2021/07/07 | 0.47 | | % | 35 |
| | | | Acid Extractable Antimony (Sb) | 2021/07/07 | NC | | % | 35 |
| | | | Acid Extractable Arsenic (As) | 2021/07/07 | 5.3 | | % | 35 |
| | | | Acid Extractable Barium (Ba) | 2021/07/07 | 2.5 | | % | 35 |
| | | | Acid Extractable Beryllium (Be) | 2021/07/07 | NC | | % | 35 |
| | | | Acid Extractable Bismuth (Bi) | 2021/07/07 | NC | | % | 35 |
| | | | Acid Extractable Boron (B) | 2021/07/07 | NC | | % | 35 |
| | | | Acid Extractable Cadmium (Cd) | 2021/07/07 | NC | | % | 35 |
| | | | Acid Extractable Chromium (Cr) | 2021/07/07 | 2.2 | | % | 35 |
| | | | Acid Extractable Cobalt (Co) | 2021/07/07 | 0.29 | | % | 35 |
| | | | Acid Extractable Copper (Cu) | 2021/07/07 | 1.8 | | % | 35 |
| | | | Acid Extractable Iron (Fe) | 2021/07/07 | 1.0 | | % | 35 |
| | | | Acid Extractable Lead (Pb) | 2021/07/07 | 2.0 | | % | 35 |
| | | | Acid Extractable Lithium (Li) | 2021/07/07 | 0.46 | | % | 35 |
| | | | Acid Extractable Manganese (Mn) | 2021/07/07 | 1.9 | | % | 35 |
| | | | Acid Extractable Mercury (Hg) | 2021/07/07 | NC | | % | 35 |
| | | | Acid Extractable Molybdenum (Mo) | 2021/07/07 | NC | | % | 35 |
| | | | Acid Extractable Nickel (Ni) | 2021/07/07 | 1.8 | | % | 35 |
| | | | Acid Extractable Rubidium (Rb) | 2021/07/07 | 3.5 | | % | 35 |
| | | | Acid Extractable Selenium (Se) | 2021/07/07 | NC | | % | 35 |
| | | | Acid Extractable Silver (Ag) | 2021/07/07 | NC | | % | 35 |
| | | | Acid Extractable Strontium (Sr) | 2021/07/07 | 0.94 | | % | 35 |
| Acid Extractable Thallium (Tl) | 2021/07/07 | 0.11 | | % | 35 | | | |
| Acid Extractable Tin (Sn) | 2021/07/07 | NC | | % | 35 | | | |
| Acid Extractable Uranium (U) | 2021/07/07 | 0.77 | | % | 35 | | | |
| Acid Extractable Vanadium (V) | 2021/07/07 | 0.63 | | % | 35 | | | |
| Acid Extractable Zinc (Zn) | 2021/07/07 | 0.12 | | % | 35 | | | |
| 7446423 | EMT | Matrix Spike [PXP276-01] | Ammonia-N | 2021/07/07 | | 83 | % | 75 - 125 |
| 7446423 | EMT | Spiked Blank | Ammonia-N | 2021/07/07 | | 105 | % | 80 - 120 |
| 7446423 | EMT | Method Blank | Ammonia-N | 2021/07/07 | <1.3 | | mg/kg | |
| 7446423 | EMT | RPD [PXP276-01] | Ammonia-N | 2021/07/07 | NC | | % | 30 |
| 7446574 | EMT | Matrix Spike [PXP308-01] | Ammonia-N | 2021/07/07 | | 85 | % | 75 - 125 |
| 7446574 | EMT | Spiked Blank | Ammonia-N | 2021/07/07 | | 102 | % | 80 - 120 |
| 7446574 | EMT | Method Blank | Ammonia-N | 2021/07/07 | <1.3 | | mg/kg | |
| 7446574 | EMT | RPD [PXP308-01] | Ammonia-N | 2021/07/07 | NC | | % | 30 |
| 7446594 | EMT | Matrix Spike [PXP341-01] | Ammonia-N | 2021/07/07 | | 56 (2) | % | 75 - 125 |
| 7446594 | EMT | Spiked Blank | Ammonia-N | 2021/07/07 | | 105 | % | 80 - 120 |
| 7446594 | EMT | Method Blank | Ammonia-N | 2021/07/07 | <1.3 | | mg/kg | |
| 7446594 | EMT | RPD [PXP341-01] | Ammonia-N | 2021/07/07 | NC | | % | 30 |
| 7446601 | EMT | Matrix Spike [PXP280-01] | Ammonia-N | 2021/07/07 | | NC | % | 75 - 125 |
| 7446601 | EMT | Spiked Blank | Ammonia-N | 2021/07/07 | | 107 | % | 80 - 120 |



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QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|-------------|------|--------------------------|-----------------------|---------------|--------|----------|-------|-----------|
| 7446601 | EMT | Method Blank | Ammonia-N | 2021/07/07 | <1.3 | | mg/kg | |
| 7446601 | EMT | RPD [PXP280-01] | Ammonia-N | 2021/07/07 | 12 | | % | 30 |
| 7448009 | BBD | QC Standard | Organic Carbon (TOC) | 2021/07/07 | | 107 | % | 75 - 125 |
| 7448009 | BBD | Method Blank | Organic Carbon (TOC) | 2021/07/07 | <0.50 | | g/kg | |
| 7448009 | BBD | RPD [PXP294-01] | Organic Carbon (TOC) | 2021/07/07 | 0.55 | | % | 35 |
| 7448080 | EMT | Matrix Spike [PXP340-01] | Chloride (Cl-) | 2021/07/08 | | 96 | % | 75 - 125 |
| 7448080 | EMT | Spiked Blank | Chloride (Cl-) | 2021/07/08 | | 99 | % | 80 - 120 |
| 7448080 | EMT | Method Blank | Chloride (Cl-) | 2021/07/08 | <5.0 | | mg/kg | |
| 7448080 | EMT | RPD [PXP340-01] | Chloride (Cl-) | 2021/07/08 | 8.5 | | % | 30 |
| 7448082 | EMT | Matrix Spike [PXP340-01] | Sulphate (SO4) | 2021/07/07 | | 110 | % | 75 - 125 |
| 7448082 | EMT | Spiked Blank | Sulphate (SO4) | 2021/07/07 | | 108 | % | 80 - 120 |
| 7448082 | EMT | Method Blank | Sulphate (SO4) | 2021/07/07 | <10 | | mg/kg | |
| 7448082 | EMT | RPD [PXP340-01] | Sulphate (SO4) | 2021/07/07 | 0.85 | | % | 30 |
| 7448083 | EMT | Matrix Spike [PXP340-01] | Orthophosphate (P) | 2021/07/07 | | 0 (3) | % | 75 - 125 |
| 7448083 | EMT | Spiked Blank | Orthophosphate (P) | 2021/07/07 | | 101 | % | 80 - 120 |
| 7448083 | EMT | Method Blank | Orthophosphate (P) | 2021/07/07 | <0.050 | | mg/kg | |
| 7448083 | EMT | RPD [PXP340-01] | Orthophosphate (P) | 2021/07/07 | 3.5 | | % | 30 |
| 7448084 | EMT | Matrix Spike [PXP340-01] | Nitrate + Nitrite (N) | 2021/07/07 | | 89 | % | 75 - 125 |
| 7448084 | EMT | Spiked Blank | Nitrate + Nitrite (N) | 2021/07/07 | | 91 | % | 80 - 120 |
| 7448084 | EMT | Method Blank | Nitrate + Nitrite (N) | 2021/07/07 | <0.25 | | mg/kg | |
| 7448084 | EMT | RPD [PXP340-01] | Nitrate + Nitrite (N) | 2021/07/07 | 2.8 | | % | 30 |
| 7448085 | EMT | Matrix Spike [PXP340-01] | Nitrite (N) | 2021/07/07 | | 95 | % | 75 - 125 |
| 7448085 | EMT | Spiked Blank | Nitrite (N) | 2021/07/07 | | 102 | % | 80 - 120 |
| 7448085 | EMT | Method Blank | Nitrite (N) | 2021/07/07 | <0.050 | | mg/kg | |
| 7448085 | EMT | RPD [PXP340-01] | Nitrite (N) | 2021/07/07 | NC | | % | 30 |
| 7448087 | EMT | Matrix Spike [PXP301-01] | Chloride (Cl-) | 2021/07/08 | | 98 | % | 75 - 125 |
| 7448087 | EMT | Spiked Blank | Chloride (Cl-) | 2021/07/08 | | 98 | % | 80 - 120 |
| 7448087 | EMT | Method Blank | Chloride (Cl-) | 2021/07/08 | <5.0 | | mg/kg | |
| 7448087 | EMT | RPD [PXP301-01] | Chloride (Cl-) | 2021/07/08 | 5.6 | | % | 30 |
| 7448090 | EMT | Matrix Spike [PXP301-01] | Sulphate (SO4) | 2021/07/07 | | 116 | % | 75 - 125 |
| 7448090 | EMT | Spiked Blank | Sulphate (SO4) | 2021/07/07 | | 109 | % | 80 - 120 |
| 7448090 | EMT | Method Blank | Sulphate (SO4) | 2021/07/07 | <10 | | mg/kg | |
| 7448090 | EMT | RPD [PXP301-01] | Sulphate (SO4) | 2021/07/07 | NC | | % | 30 |
| 7448091 | EMT | Matrix Spike [PXP301-01] | Orthophosphate (P) | 2021/07/07 | | 99 | % | 75 - 125 |
| 7448091 | EMT | Spiked Blank | Orthophosphate (P) | 2021/07/07 | | 98 | % | 80 - 120 |
| 7448091 | EMT | Method Blank | Orthophosphate (P) | 2021/07/07 | <0.050 | | mg/kg | |
| 7448091 | EMT | RPD [PXP301-01] | Orthophosphate (P) | 2021/07/07 | 62 (4) | | % | 30 |
| 7448092 | EMT | Matrix Spike [PXP301-01] | Nitrate + Nitrite (N) | 2021/07/07 | | 86 | % | 75 - 125 |
| 7448092 | EMT | Spiked Blank | Nitrate + Nitrite (N) | 2021/07/07 | | 83 | % | 80 - 120 |
| 7448092 | EMT | Method Blank | Nitrate + Nitrite (N) | 2021/07/07 | <0.25 | | mg/kg | |
| 7448092 | EMT | RPD [PXP301-01] | Nitrate + Nitrite (N) | 2021/07/07 | 8.1 | | % | 30 |
| 7448093 | EMT | Matrix Spike [PXP301-01] | Nitrite (N) | 2021/07/07 | | 87 | % | 75 - 125 |
| 7448093 | EMT | Spiked Blank | Nitrite (N) | 2021/07/07 | | 98 | % | 80 - 120 |
| 7448093 | EMT | Method Blank | Nitrite (N) | 2021/07/07 | <0.050 | | mg/kg | |
| 7448093 | EMT | RPD [PXP301-01] | Nitrite (N) | 2021/07/07 | NC | | % | 30 |
| 7448096 | EMT | Matrix Spike [PXP348-01] | Chloride (Cl-) | 2021/07/08 | | 99 | % | 75 - 125 |
| 7448096 | EMT | Spiked Blank | Chloride (Cl-) | 2021/07/08 | | 99 | % | 80 - 120 |
| 7448096 | EMT | Method Blank | Chloride (Cl-) | 2021/07/08 | <5.0 | | mg/kg | |
| 7448096 | EMT | RPD [PXP348-01] | Chloride (Cl-) | 2021/07/08 | 0.83 | | % | 30 |
| 7448097 | EMT | Matrix Spike [PXP348-01] | Sulphate (SO4) | 2021/07/07 | | 113 | % | 75 - 125 |
| 7448097 | EMT | Spiked Blank | Sulphate (SO4) | 2021/07/07 | | 105 | % | 80 - 120 |
| 7448097 | EMT | Method Blank | Sulphate (SO4) | 2021/07/07 | <10 | | mg/kg | |



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QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|-------------|------|--------------------------|----------------------------|---------------|-----------------|----------|-------|-----------|
| 7448097 | EMT | RPD [PXP348-01] | Sulphate (SO4) | 2021/07/07 | NC | | % | 30 |
| 7448098 | EMT | Matrix Spike [PXP348-01] | Orthophosphate (P) | 2021/07/07 | | 100 | % | 75 - 125 |
| 7448098 | EMT | Spiked Blank | Orthophosphate (P) | 2021/07/07 | | 105 | % | 80 - 120 |
| 7448098 | EMT | Method Blank | Orthophosphate (P) | 2021/07/07 | <0.050 | | mg/kg | |
| 7448098 | EMT | RPD [PXP348-01] | Orthophosphate (P) | 2021/07/07 | 8.0 | | % | 30 |
| 7448099 | EMT | Matrix Spike [PXP348-01] | Nitrate + Nitrite (N) | 2021/07/07 | | 77 | % | 75 - 125 |
| 7448099 | EMT | Spiked Blank | Nitrate + Nitrite (N) | 2021/07/07 | | 92 | % | 80 - 120 |
| 7448099 | EMT | Method Blank | Nitrate + Nitrite (N) | 2021/07/07 | <0.25 | | mg/kg | |
| 7448099 | EMT | RPD [PXP348-01] | Nitrate + Nitrite (N) | 2021/07/07 | NC | | % | 30 |
| 7448100 | EMT | Matrix Spike [PXP348-01] | Nitrite (N) | 2021/07/08 | | 83 | % | 75 - 125 |
| 7448100 | EMT | Spiked Blank | Nitrite (N) | 2021/07/08 | | 104 | % | 80 - 120 |
| 7448100 | EMT | Method Blank | Nitrite (N) | 2021/07/08 | <0.050 | | mg/kg | |
| 7448100 | EMT | RPD [PXP348-01] | Nitrite (N) | 2021/07/08 | NC | | % | 30 |
| 7448217 | EMT | Matrix Spike | Chloride (Cl-) | 2021/07/07 | | 99 | % | 75 - 125 |
| 7448217 | EMT | Spiked Blank | Chloride (Cl-) | 2021/07/07 | | 96 | % | 80 - 120 |
| 7448217 | EMT | Method Blank | Chloride (Cl-) | 2021/07/07 | <5.0 | | mg/kg | |
| 7448217 | EMT | RPD | Chloride (Cl-) | 2021/07/07 | NC | | % | 30 |
| 7448225 | EMT | Spiked Blank | Sulphate (SO4) | 2021/07/07 | | 104 | % | 80 - 120 |
| 7448225 | EMT | Method Blank | Sulphate (SO4) | 2021/07/07 | <10 | | mg/kg | |
| 7448228 | EMT | Spiked Blank | Orthophosphate (P) | 2021/07/08 | | 97 | % | 80 - 120 |
| 7448228 | EMT | Method Blank | Orthophosphate (P) | 2021/07/08 | <0.050 | | mg/kg | |
| 7448230 | EMT | Spiked Blank | Nitrate + Nitrite (N) | 2021/07/07 | | 97 | % | 80 - 120 |
| 7448230 | EMT | Method Blank | Nitrate + Nitrite (N) | 2021/07/07 | <0.25 | | mg/kg | |
| 7448231 | EMT | Spiked Blank | Nitrite (N) | 2021/07/07 | | 104 | % | 80 - 120 |
| 7448231 | EMT | Method Blank | Nitrite (N) | 2021/07/07 | <0.050 | | mg/kg | |
| 7448515 | BBD | QC Standard | Total Carbon-combustion IR | 2021/07/07 | | 95 | % | 75 - 125 |
| 7448515 | BBD | Method Blank | Total Carbon-combustion IR | 2021/07/07 | <0.50 | | g/kg | |
| 7448515 | BBD | RPD [PXP293-01] | Total Carbon-combustion IR | 2021/07/07 | 2.9 | | % | 35 |
| 7448613 | SSI | RPD [PXP301-01] | Soluble (5:1) pH | 2021/07/07 | 2.4 | | % | N/A |
| 7448618 | SSI | Method Blank | Conductivity | 2021/07/07 | 3.3, RDL=1.0 | | uS/cm | |
| 7448618 | SSI | RPD [PXP301-01] | Conductivity | 2021/07/07 | 18 | | % | 20 |
| 7448631 | SSI | RPD [PXP348-01] | Soluble (5:1) pH | 2021/07/07 | 0.41 | | % | N/A |
| 7448637 | SSI | Method Blank | Conductivity | 2021/07/07 | 3.4, RDL=1.0 | | uS/cm | |
| 7448637 | SSI | RPD [PXP348-01] | Conductivity | 2021/07/07 | 1.8 | | % | 20 |
| 7448651 | SSI | RPD [PXP340-01] | Soluble (5:1) pH | 2021/07/07 | 0.23 | | % | N/A |
| 7448671 | SSI | Method Blank | Conductivity | 2021/07/07 | 3.0, RDL=1.0 | | uS/cm | |
| 7448671 | SSI | RPD [PXP340-01] | Conductivity | 2021/07/07 | 5.6 | | % | 20 |
| 7448682 | SSI | RPD | Soluble (5:1) pH | 2021/07/07 | 1.9 | | % | N/A |
| 7448694 | SSI | Method Blank | Conductivity | 2021/07/07 | 1.7, RDL=1.0 | | uS/cm | |



BUREAU
VERITAS

BV Labs Job #: C1H4101
Report Date: 2021/07/14

GHD Limited
Client Project #: 11222385
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QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC | Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|-------|---------|------|---------|--------------|---------------|-------|----------|-------|-----------|
| | 7448694 | SSI | RPD | Conductivity | 2021/07/07 | 3.0 | | % | 20 |

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference $\leq 2 \times$ RDL).

(1) Elevated reporting limit due to blank performance.

(2) Poor spike recovery due to probable sample matrix interference.

(3) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

(4) Poor duplicate agreement due to sample inhomogeneity, results confirmed by repeat analysis.



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VALIDATION SIGNATURE PAGE

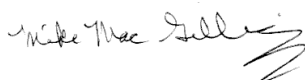
The analytical data and all QC contained in this report were reviewed and validated by:



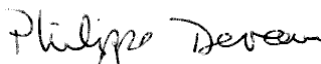

Miryam Assayag



Eric Dearman, Scientific Specialist



Mike MacGillivray, Scientific Specialist (Inorganics)



Phil Deveau, Scientific Specialist (Organics)

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Kimberley Brace

From: Atena Georgescu
Sent: Friday, June 25, 2021 2:47 PM
To: Kimberley Brace
Subject: GHD Glen Merkley

| Item | Sample Matrix | Analytical Parameters | Analytical Methods | U | Pri |
|------|---------------|--|--|----|-----|
| 1 | Soil | General Chemistry | SW846 | \$ | 1 |
| 2 | Soil | ICPMS Metals Scan, includes mercury (total) | 6020/3030B/1631E/200.8/200.2SM 3125B | \$ | |
| 3 | Soil | Methylmercury | SW846 9060/EPA 415.1/SM 5310B/ | \$ | 1 |
| 4 | Soil | Carbon, Total Organic (TOC) | Carter 21.2/LECO | \$ | |
| 5 | Soil | Carbon, Total (TC) | LECO/SM 5310, combustion | \$ | |
| 6 | Soil | Carbon, Total Inorganic (TIC) | LECO/SM 5310 | \$ | |
| 7 | Soil | Acid Rock Drainage Package | | \$ | 1 |
| 8 | Soil | Grain Size/Particle Size Distribution (includes graph) | ASTM D422-63/Sieve and Pipette or Hydrometer | \$ | 13 |
| 9 | | Sample Disposal Fee | | \$ | |
| 10 | | | | | |
| 11 | Soil | TCLP | Hold for analysis - pending metals results) | | |
| 12 | | | | | |
| 13 | | | | | |
| | Soil | Carbon, Total (TC) | LECO/SM 5310, combustion | \$ | |
| | Soil | Carbon, Total Inorganic (TIC) | LECO/SM 5310 | \$ | |
| | Soil | Acid Rock Drainage Package | | \$ | 15 |
| | | Sample Disposal Fee | | \$ | |
| | | | | \$ | |
| | Soil | Carbon, Total Inorganic (TIC) | LECO/SM 5310 | \$ | |
| | Soil | Acid Rock Drainage Package | | \$ | 15 |
| | | Sample Disposal Fee | | \$ | |
| | | | | \$ | |
| | Soil | TCLP | Hold for analysis - pending metals results) | | |

Ingrid Lawlor:
 soil price is for calculation only. Requires TDC and TC

sulfate (as S), sulfide, acid production potential, neutralization potential ph 8.3, Net NP ph 8.3, NPIAP

Atena Georgescu

Project Manager, Site Remediation & Assessment
Environmental Services

Bureau Veritas Laboratories

200 Bluewater Road, Suite 105, Bedford, NS, B4B 1G9

Phone: 902 420 0203 ext.239 Fax: 902 420 8612

atena.georgescu@bureauveritas.com

Emergency / Spills 365/7/24: 1-844BVSPILL, spills@bureauveritas.com

www.bvna.com

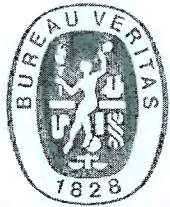
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Things are heating up!
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to keep them <10°C

LEARN HOW



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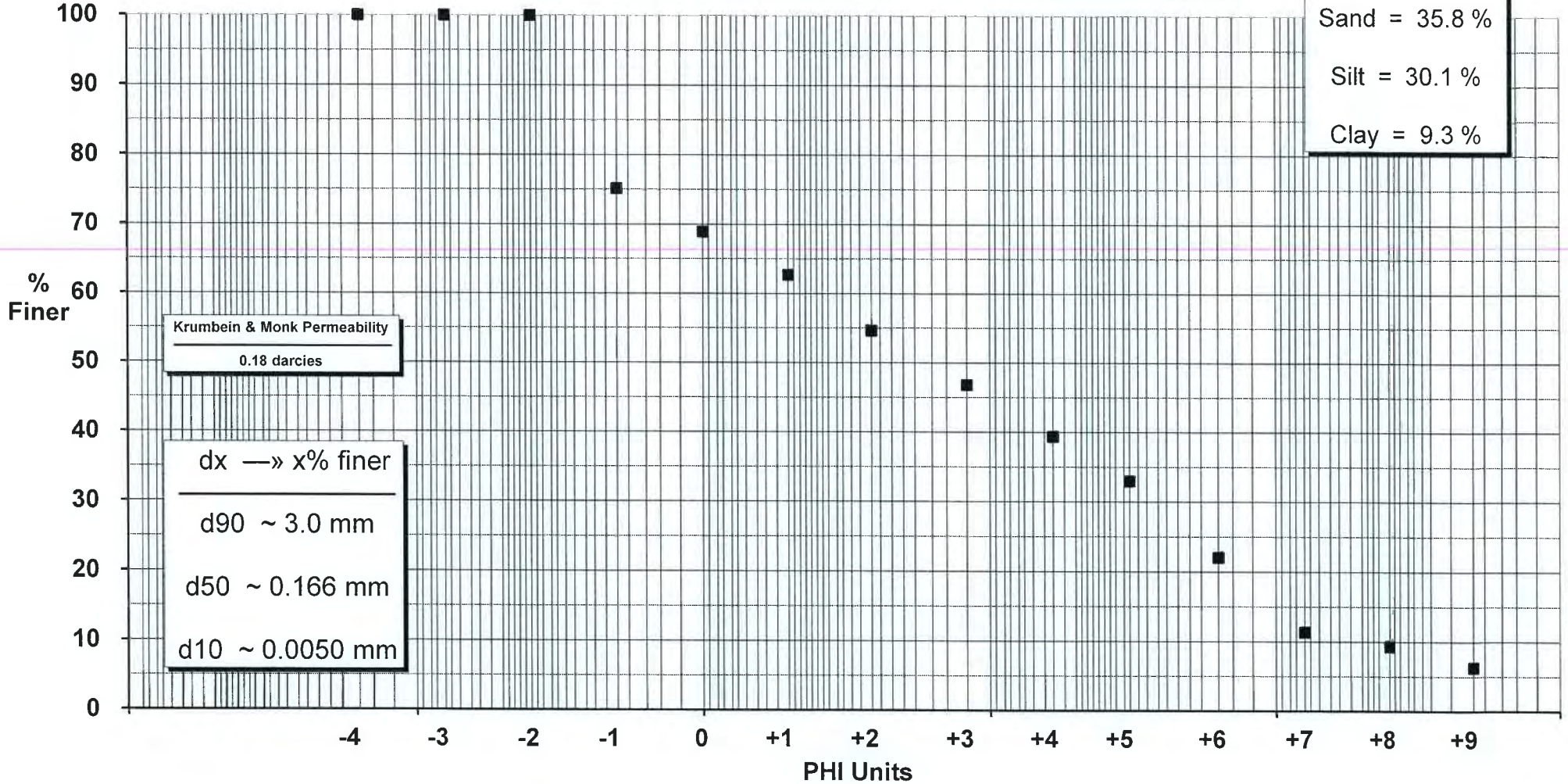
BV Labs ID: PXP279-01

A-14

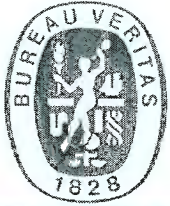
Percent Coarser than 75 μm
(PHI = 3.737)
—
58.7 %

Percent Coarser than 50 μm
(PHI = 4.322)
—
62.7 %

Wentworth
—
Gravel = 24.9 %
Sand = 35.8 %
Silt = 30.1 %
Clay = 9.3 %



enx
Approved



**BUREAU
VERITAS**

BV Labs ID: PXP279-
01:D1

A-14

Percent Coarser than 75 μm
(PHI = 3.737)

59.3 %

Percent Coarser than 50 μm
(PHI = 4.322)

62.9 %

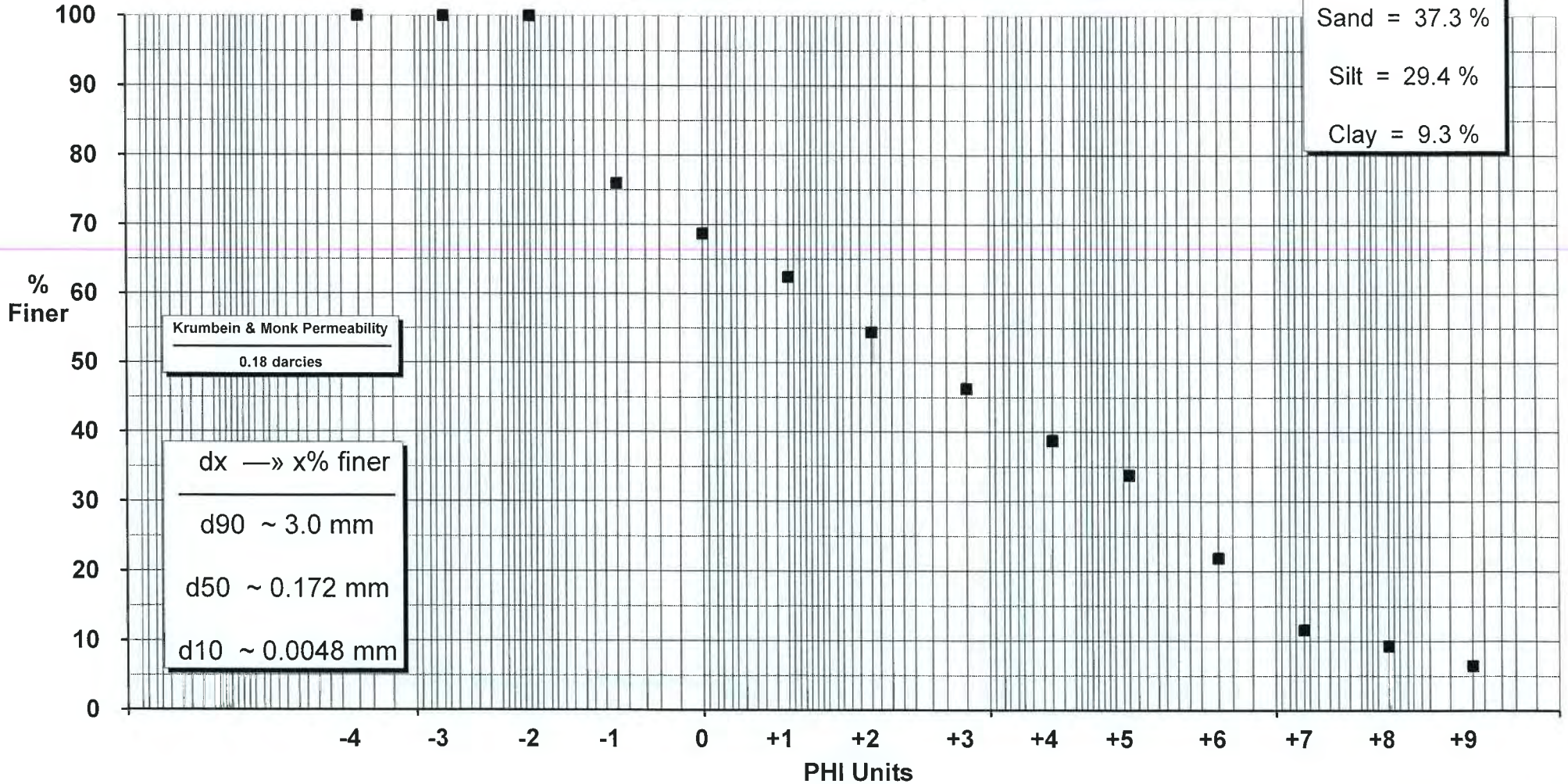
Wentworth

Gravel = 24.0 %

Sand = 37.3 %

Silt = 29.4 %

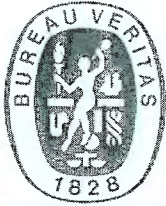
Clay = 9.3 %



Krumbein & Monk Permeability
0.18 darcies

dx —» x% finer
d90 ~ 3.0 mm
d50 ~ 0.172 mm
d10 ~ 0.0048 mm

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**BUREAU
VERITAS**

BV Labs ID: PXP280-01

A-24

Percent Coarser than 75 μm
(PHI = 3.737)

6.1 %

Percent Coarser than 50 μm
(PHI = 4.322)

6.9 %

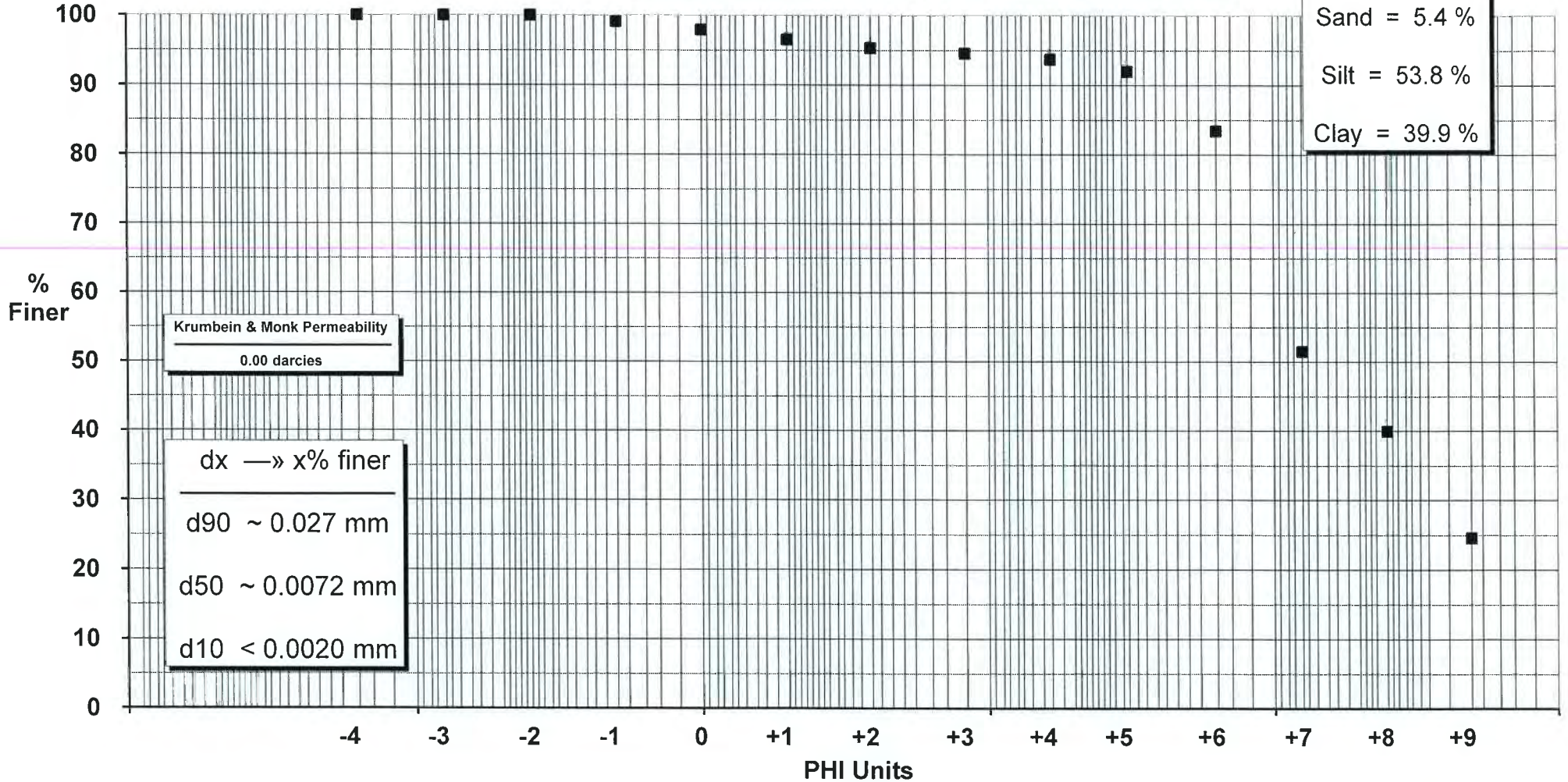
Wentworth

Gravel = 0.9 %

Sand = 5.4 %

Silt = 53.8 %

Clay = 39.9 %



Krumbein & Monk Permeability
0.00 darcies

dx \rightarrow x% finer
d90 ~ 0.027 mm
d50 ~ 0.0072 mm
d10 < 0.0020 mm

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Approved



**BUREAU
VERITAS**

BV Labs ID: PXP283-01

A-36

Percent Coarser than 75 μm
(PHI = 3.737)

—
49.0 %

Percent Coarser than 50 μm
(PHI = 4.322)

—
57.6 %

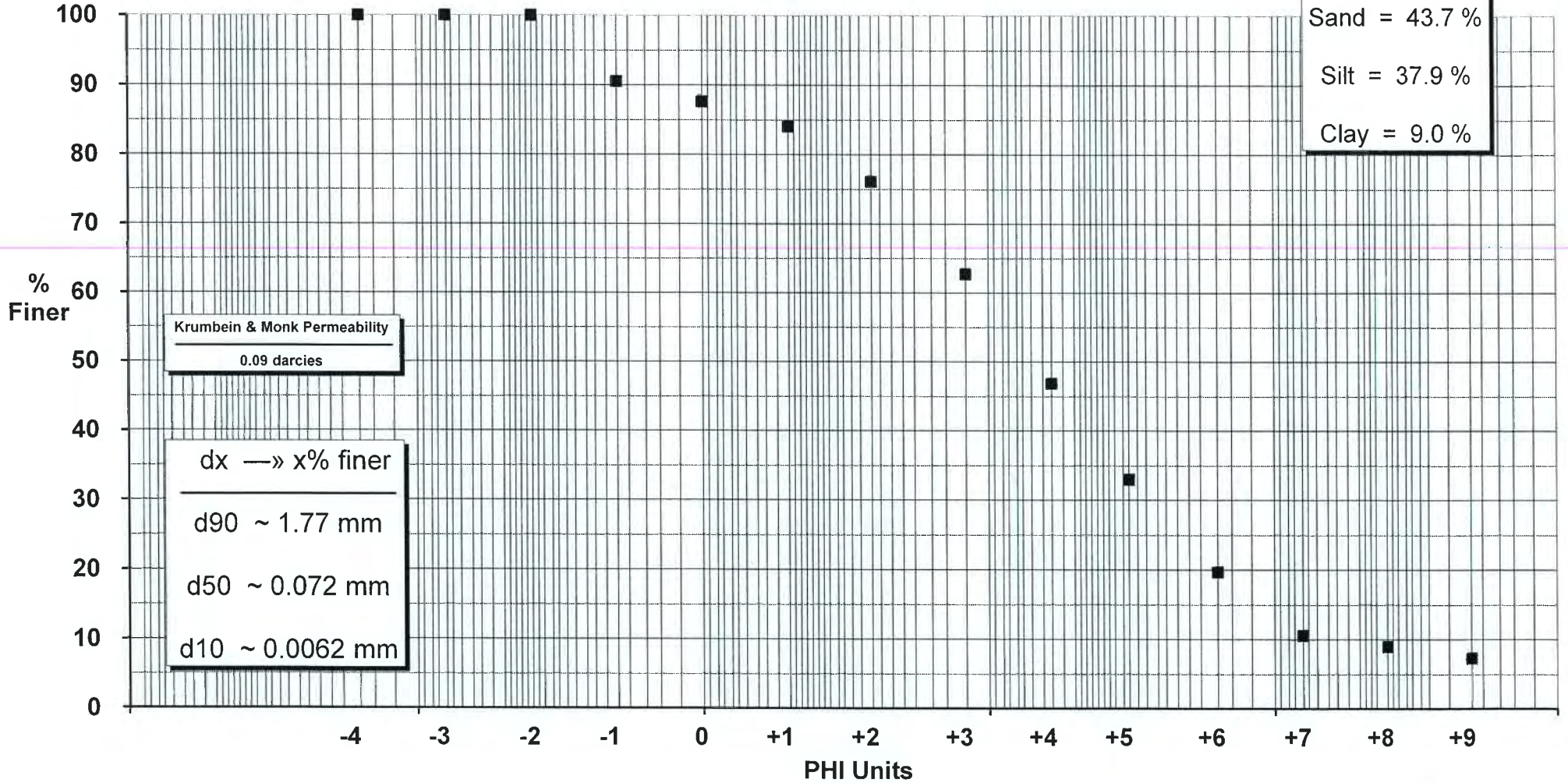
Wentworth

Gravel = 9.5 %

Sand = 43.7 %

Silt = 37.9 %

Clay = 9.0 %



Krumbein & Monk Permeability
0.09 darcies

dx \rightarrow x% finer
d90 ~ 1.77 mm
d50 ~ 0.072 mm
d10 ~ 0.0062 mm

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VERITAS**

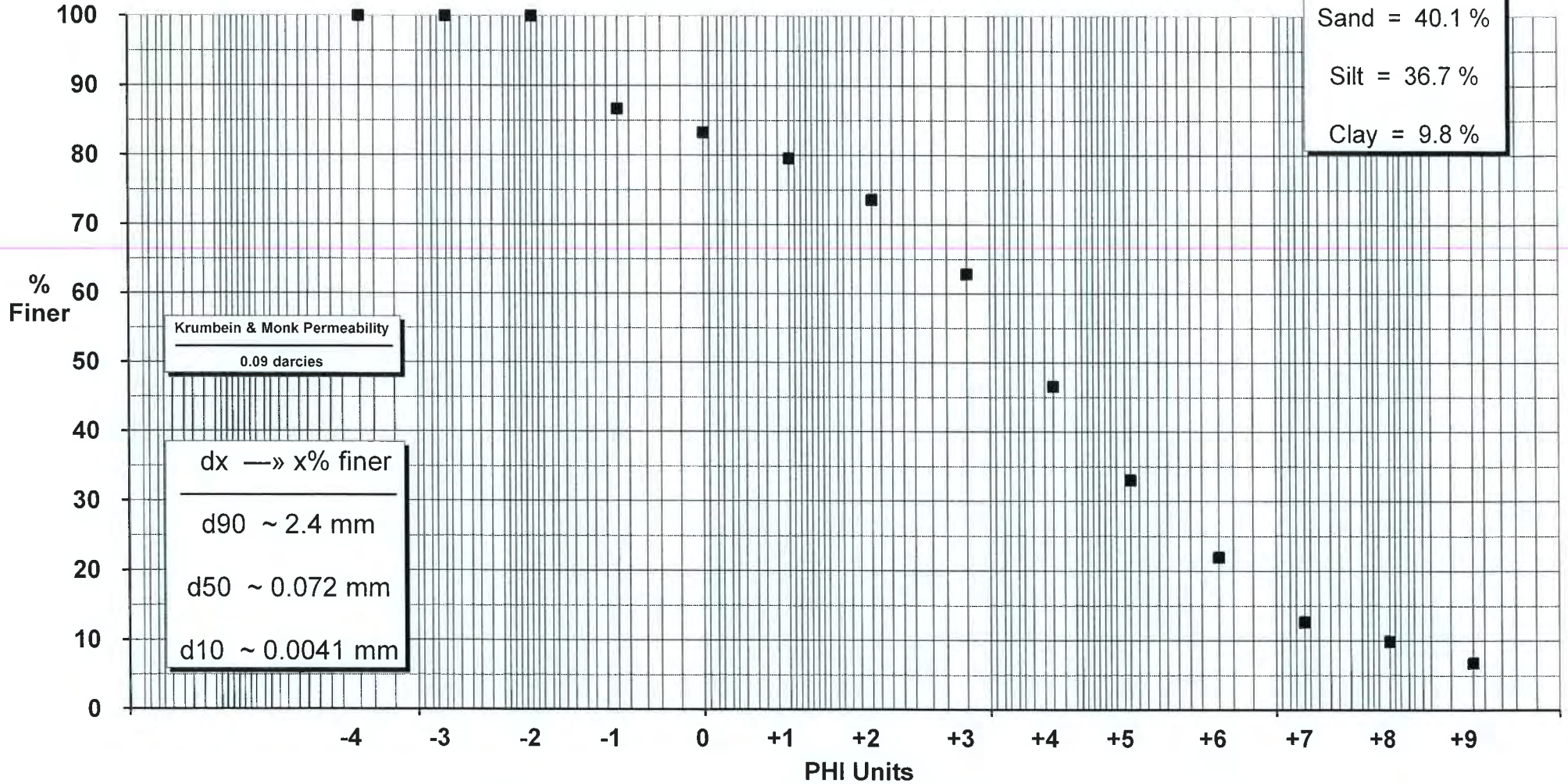
BV Labs ID: PXP292-01

B-36

Percent Coarser than 75 μm
(PHI = 3.737)
—
49.2 %

Percent Coarser than 50 μm
(PHI = 4.322)
—
57.8 %

Wentworth
—
Gravel = 13.3 %
Sand = 40.1 %
Silt = 36.7 %
Clay = 9.8 %



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**BUREAU
VERITAS**

BV Labs ID: PXP293-01

B-37

Percent Coarser than 75 μm
(PHI = 3.737)

—
59.0 %

Percent Coarser than 50 μm
(PHI = 4.322)

—
73.9 %

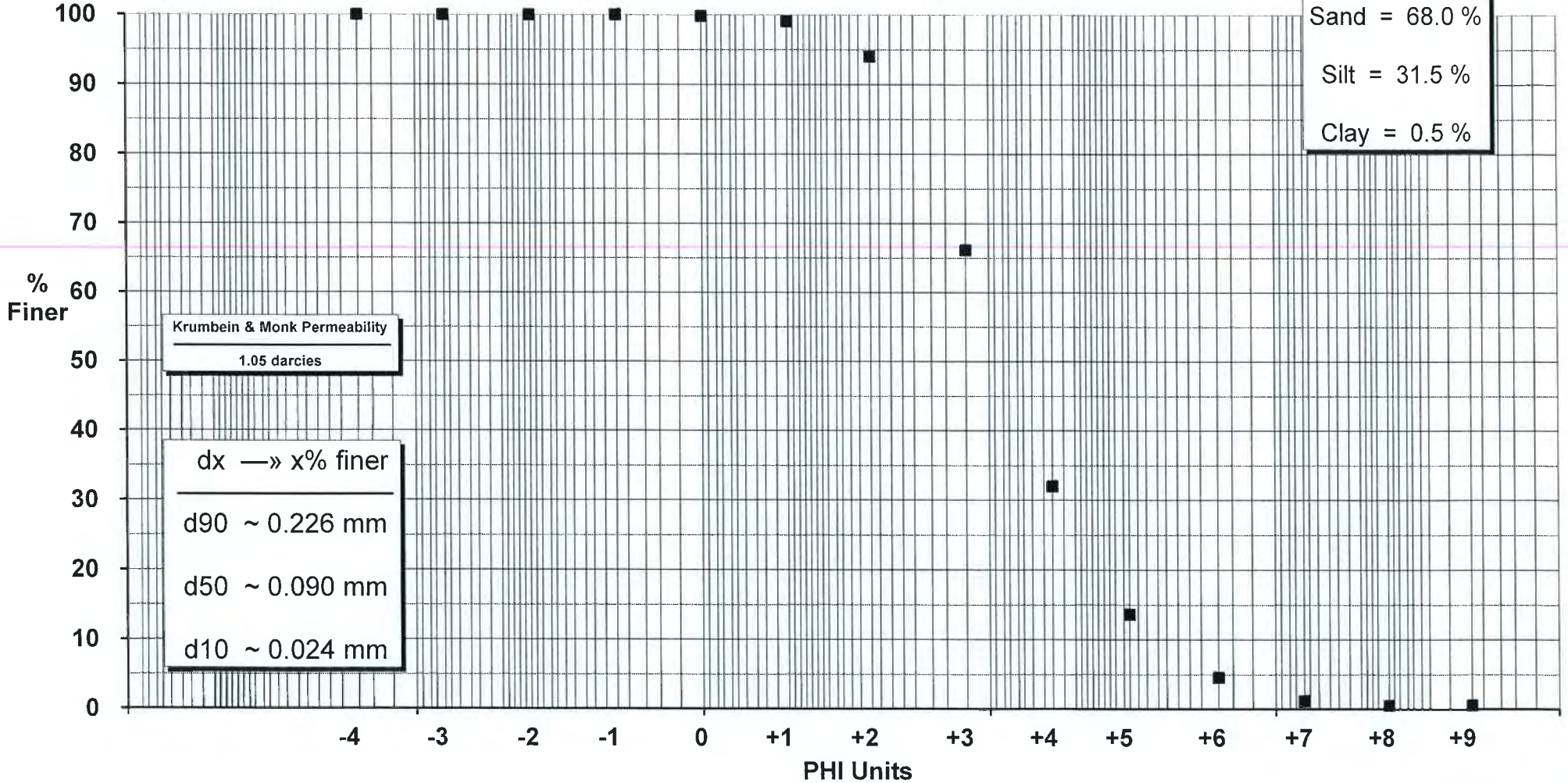
Wentworth

Gravel = 0.0 %

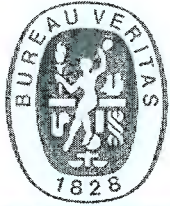
Sand = 68.0 %

Silt = 31.5 %

Clay = 0.5 %



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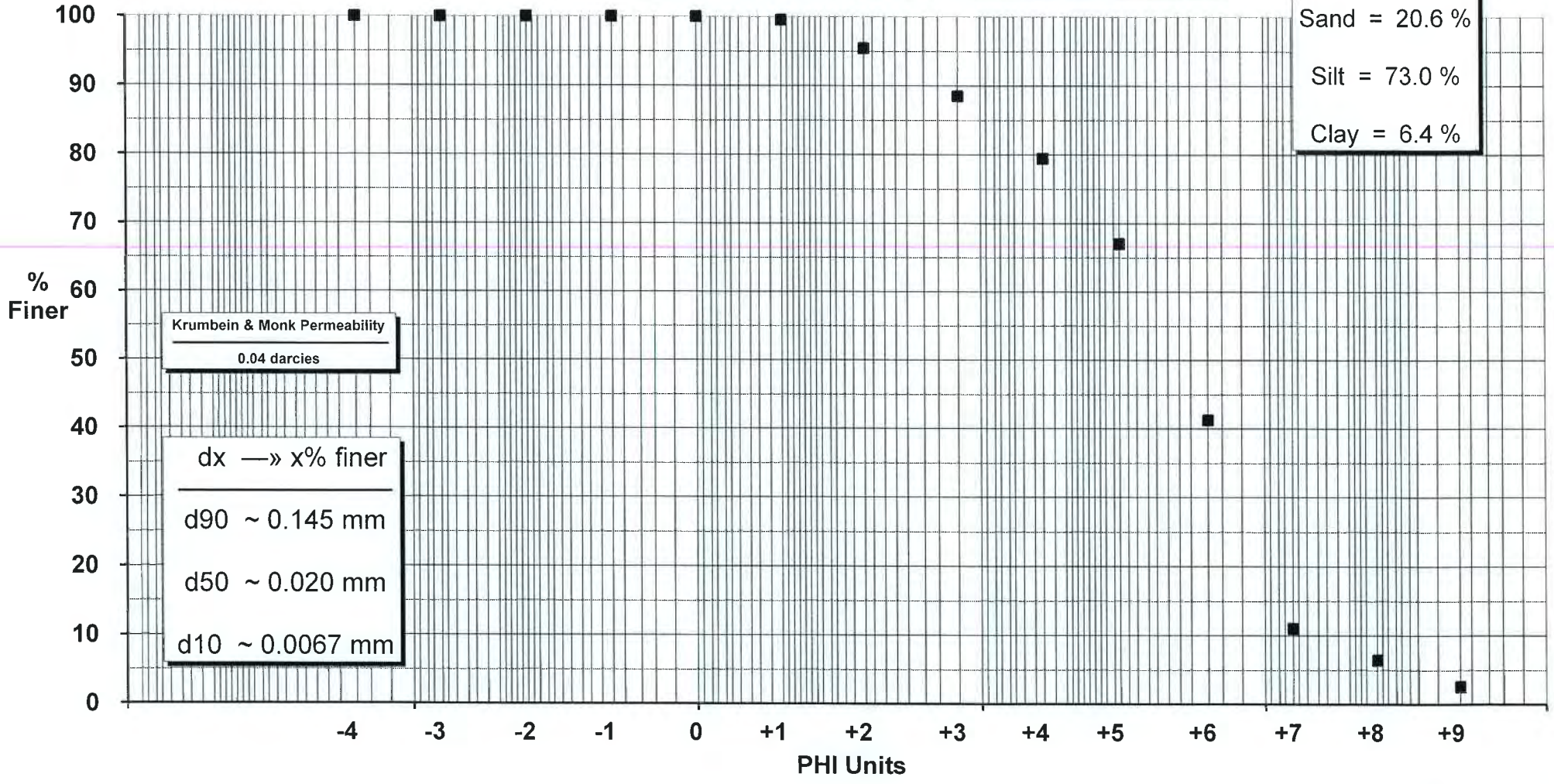
BV Labs ID: PXP309-01

C-13

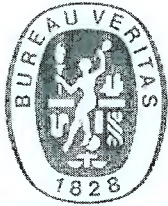
Percent Coarser than 75 μm
(PHI = 3.737)
—
18.2 %

Percent Coarser than 50 μm
(PHI = 4.322)
—
24.6 %

Wentworth
—
Gravel = 0.0 %
Sand = 20.6 %
Silt = 73.0 %
Clay = 6.4 %



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**BUREAU
VERITAS**

BV Labs ID: PXP310-01

C-18

Percent Coarser than 75 μm
(PHI = 3.737)

—
83.5 %

Percent Coarser than 50 μm
(PHI = 4.322)

—
86.4 %

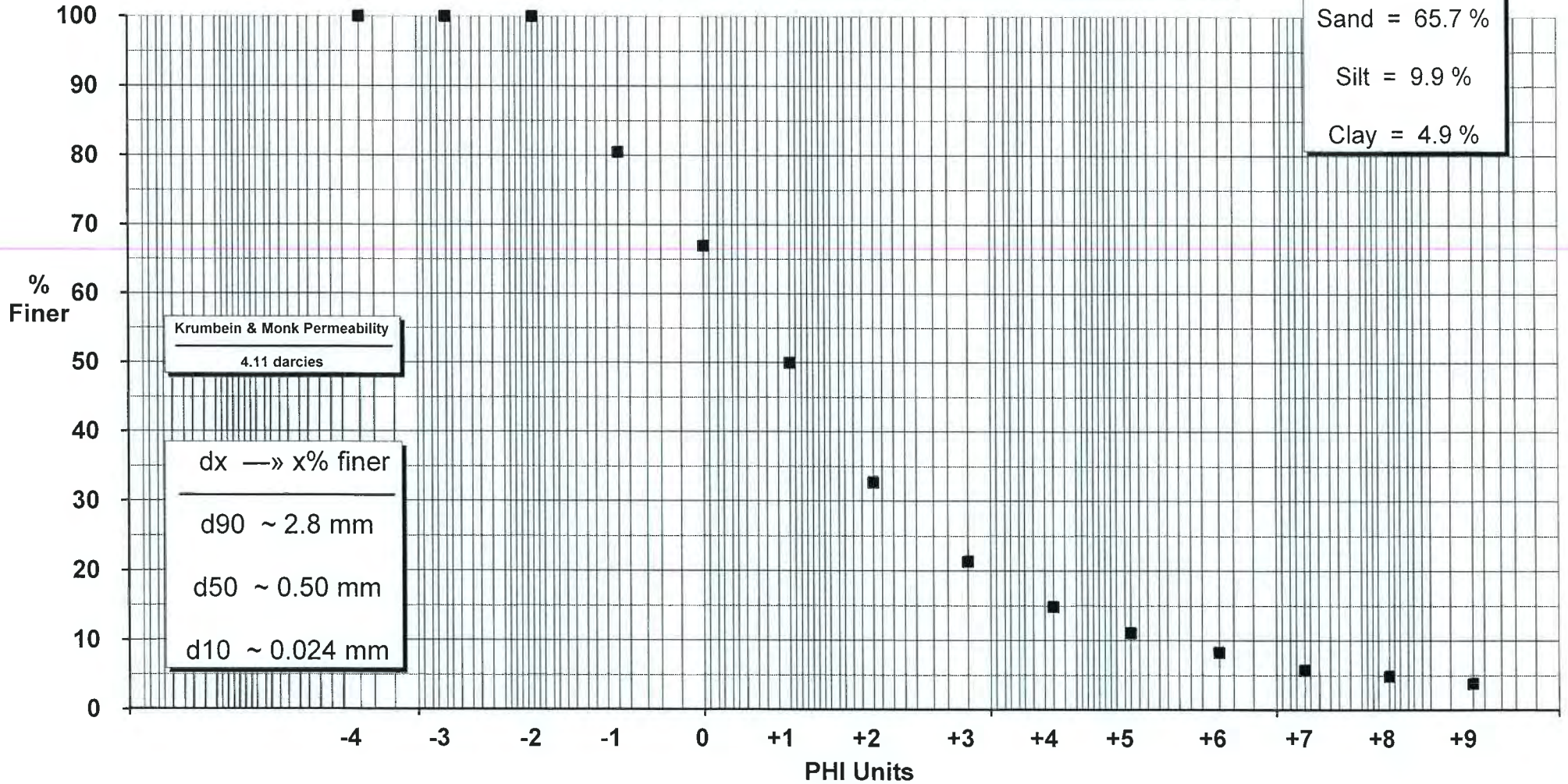
Wentworth

Gravel = 19.5 %

Sand = 65.7 %

Silt = 9.9 %

Clay = 4.9 %



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VERITAS**

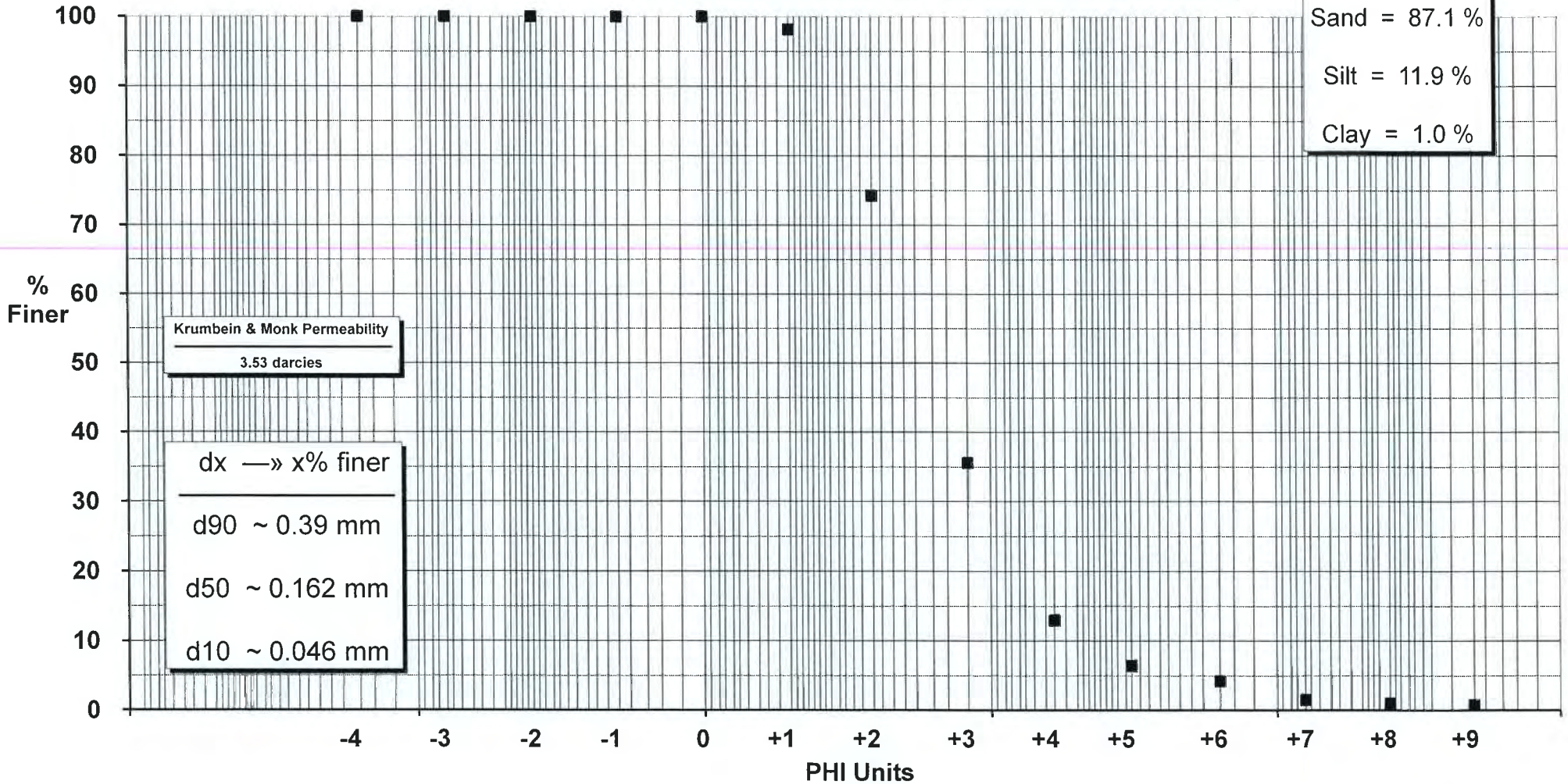
BV Labs ID: PXP313-01

D-07

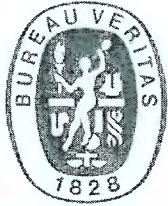
Percent Coarser than 75 μm
(PHI = 3.737)
—
81.1 %

Percent Coarser than 50 μm
(PHI = 4.322)
—
89.2 %

Wentworth
—
Gravel = 0.0 %
Sand = 87.1 %
Silt = 11.9 %
Clay = 1.0 %



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VERITAS**

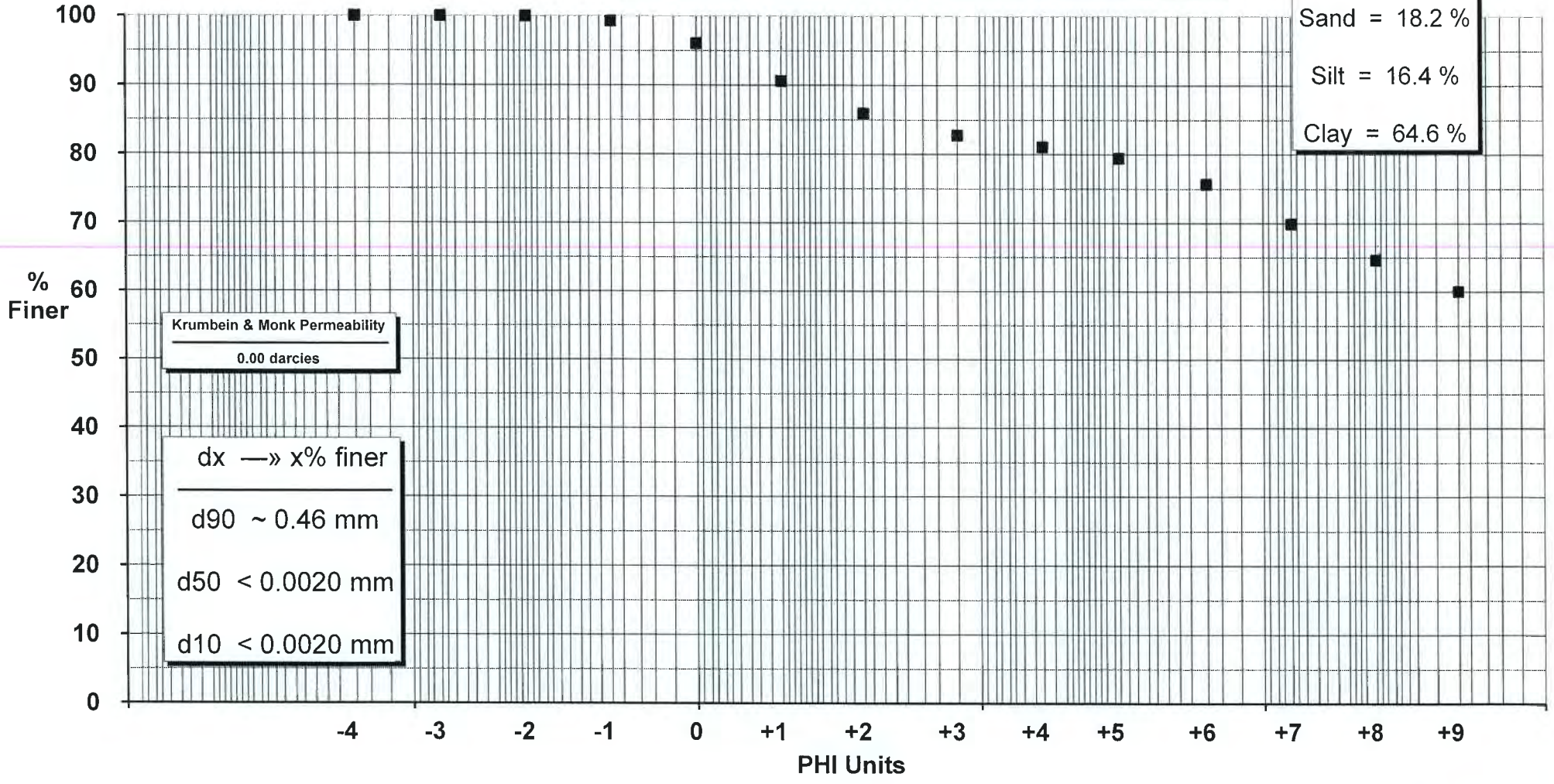
BV Labs ID: PXP319-01

D-22

Percent Coarser than 75 μm
(PHI = 3.737)
—
18.5 %

Percent Coarser than 50 μm
(PHI = 4.322)
—
19.5 %

Wentworth
—
Gravel = 0.7 %
Sand = 18.2 %
Silt = 16.4 %
Clay = 64.6 %



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**BUREAU
VERITAS**

BV Labs ID: PXP338-01

E-31

Percent Coarser than 75 μm
(PHI = 3.737)

51.1 %

Percent Coarser than 50 μm
(PHI = 4.322)

63.6 %

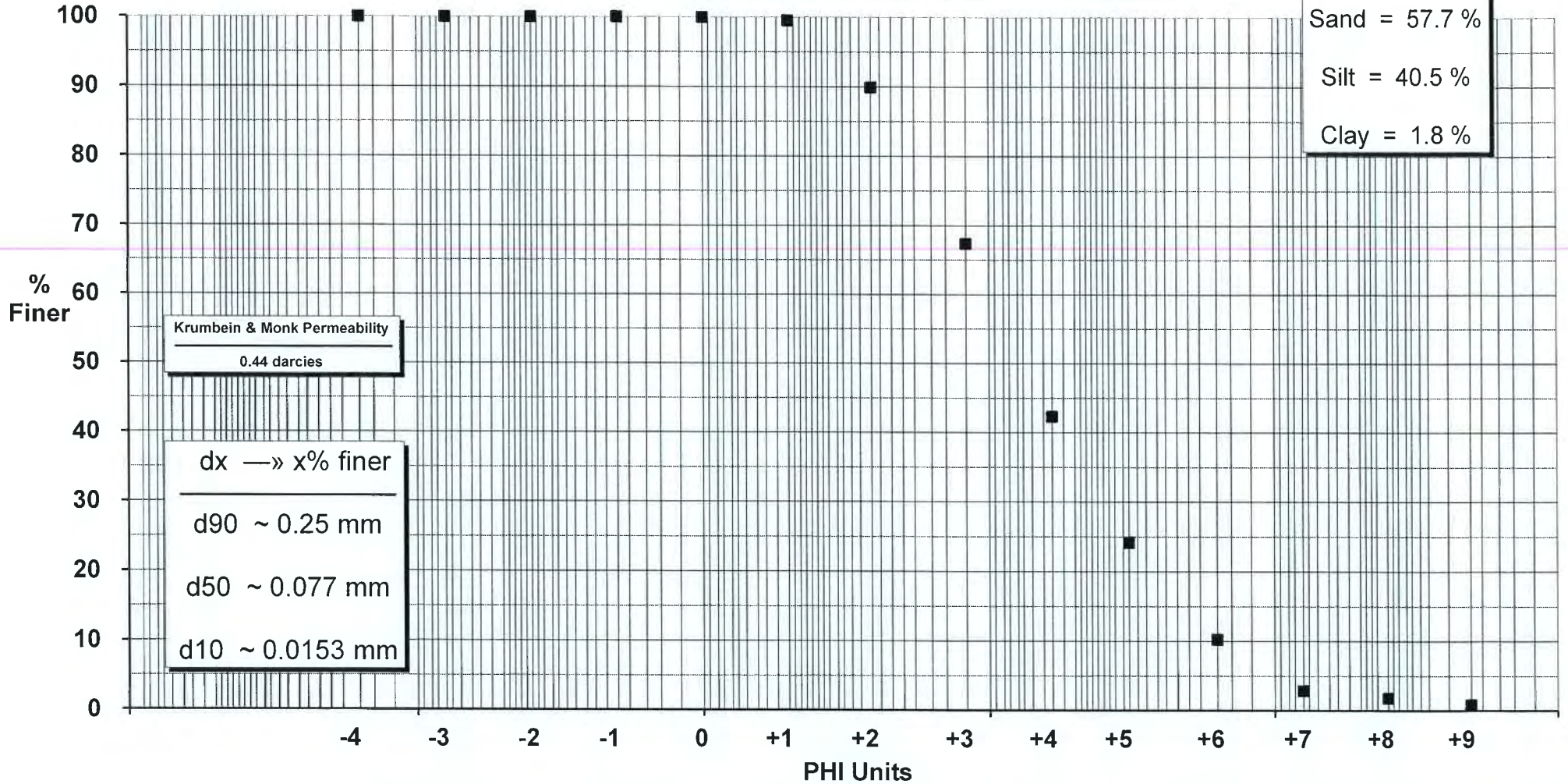
Wentworth

Gravel = 0.0 %

Sand = 57.7 %

Silt = 40.5 %

Clay = 1.8 %



2578

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**BUREAU
VERITAS**

BV Labs ID: PXP340-01

E-35

Percent Coarser than 75 μm
(PHI = 3.737)

—
61.7 %

Percent Coarser than 50 μm
(PHI = 4.322)

—
68.5 %

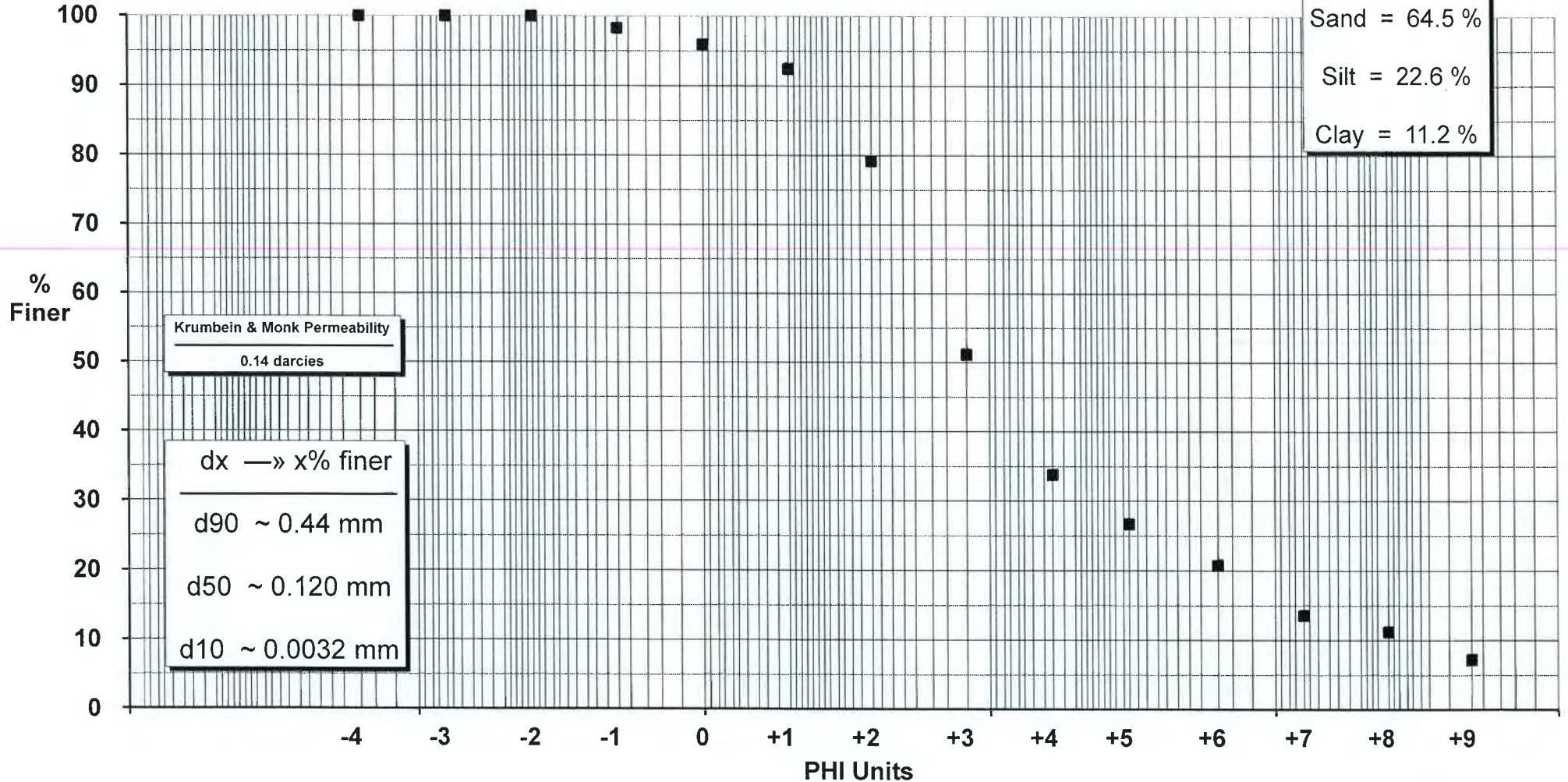
Wentworth

Gravel = 1.7 %

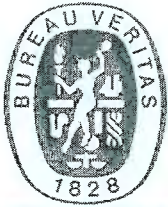
Sand = 64.5 %

Silt = 22.6 %

Clay = 11.2 %



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**BUREAU
VERITAS**

BV Labs ID: PXP342-01

E-45

Percent Coarser than 75 μm
(PHI = 3.737)

—
28.6 %

Percent Coarser than 50 μm
(PHI = 4.322)

—
30.3 %

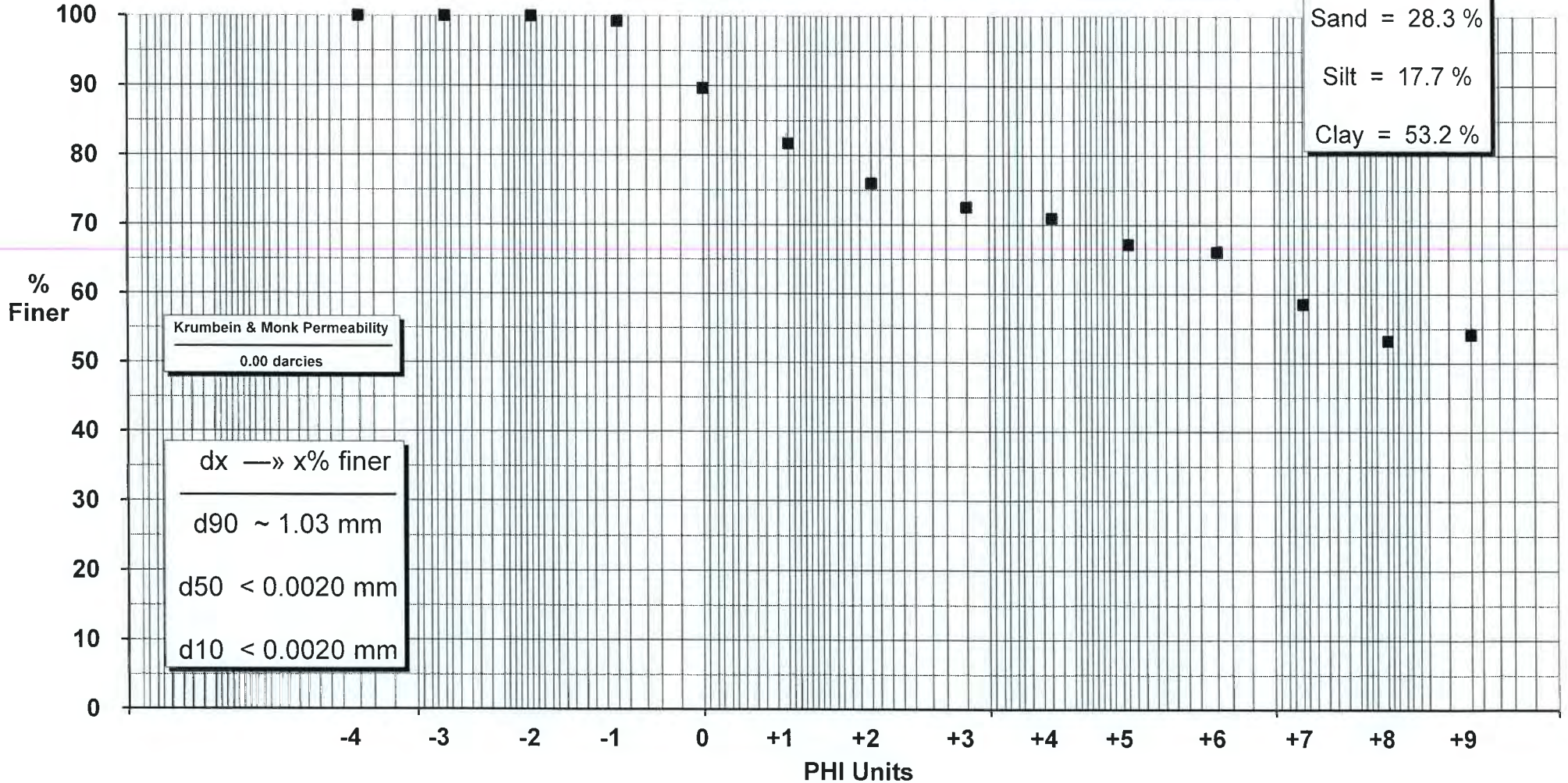
Wentworth

Gravel = 0.8 %

Sand = 28.3 %

Silt = 17.7 %

Clay = 53.2 %



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**BUREAU
VERITAS**

BV Labs ID: PXP357-01

DUP-T

Percent Coarser than 75 μm
(PHI = 3.737)

—
56.5 %

Percent Coarser than 50 μm
(PHI = 4.322)

—
70.7 %

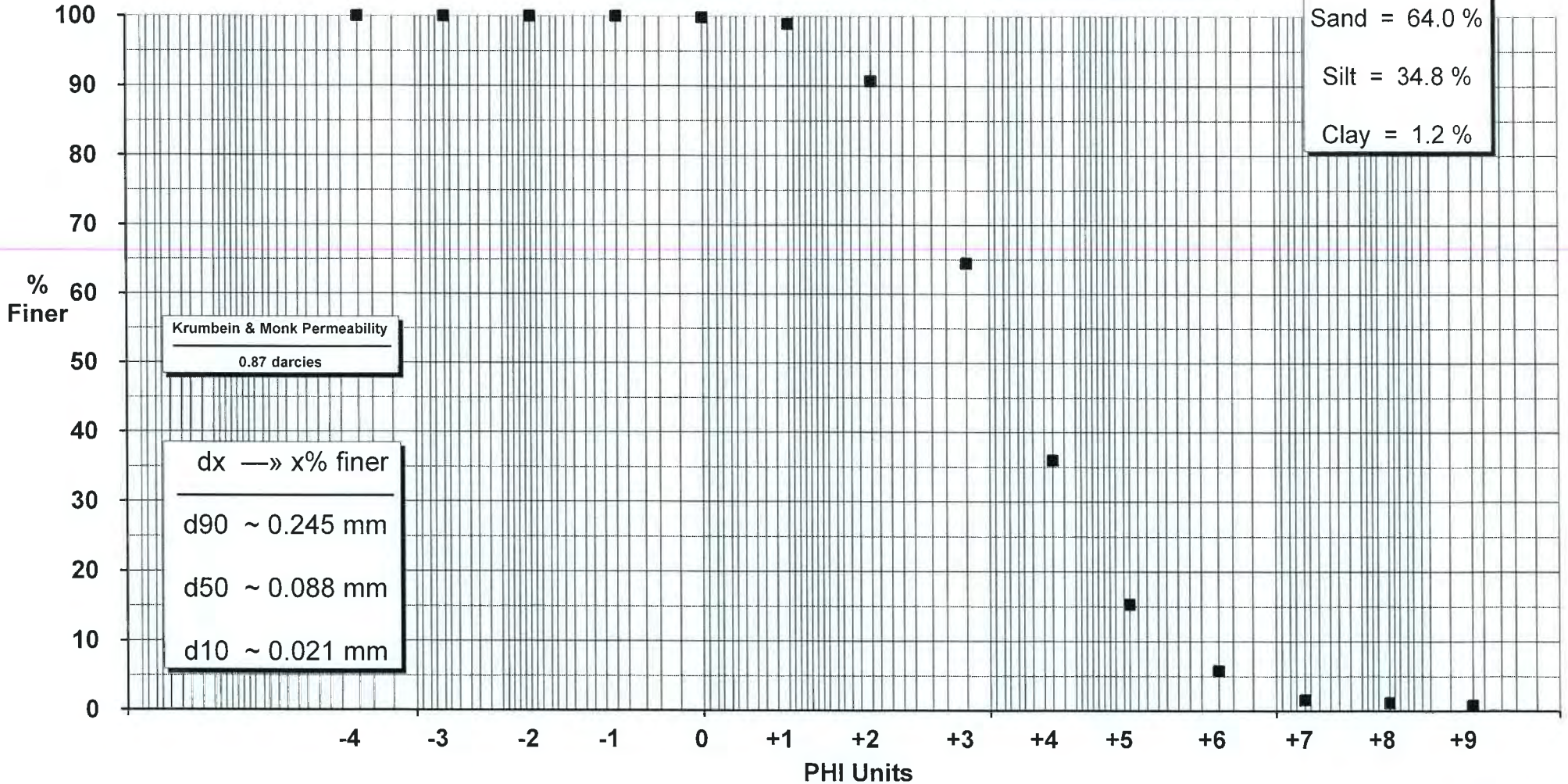
Wentworth

Gravel = 0.0 %

Sand = 64.0 %

Silt = 34.8 %

Clay = 1.2 %



Approved

Report ID: 402068-IAS-AUD
Report Date: 12-Jul-21
Date Received: 29-Jun-21

CERTIFICATE OF ANALYSIS

for
Bureau Veritas Canada Inc
200 Bluewater Road, Suite 105
Bedford, NS B4B 1G9

rpc

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

Attention: Client SvcSub
Project #: C1H4101

Modified Acid-Base Accounting Results based upon Sulfide

| RPC ID | Client ID | Paste pH | Total Sulfur | Sulfate [†] (as S) | Sulfide | Acid Production Potential | Neutralizing Potential pH 8.3 | Net NP pH 8.3 | NP/AP |
|-------------|------------------|----------|--------------|-----------------------------|---------|-----------------------------|-------------------------------|---------------|-------|
| | | | % | % | % | Kg CaCO ₃ /tonne | | | |
| 402068-1 | PXP280-04R\A-24 | 5.5 | 0.082 | 0.009 | 0.073 | 2.3 | 1.4 | -0.8 | 0.6 |
| 402068-1Dup | Lab Duplicate | 5.5 | 0.082 | 0.008 | 0.074 | 2.3 | 1.8 | -0.5 | 0.8 |
| 402068-2 | PXP293-04R\B-37 | 4.1 | 0.009 | 0.009 | < 0.005 | < 0.2 | -1.4 | -1.4 | - |
| 402068-3 | PXP294-02R\B-38 | 5.2 | 0.103 | 0.052 | 0.051 | 1.6 | -1.2 | -2.8 | -0.8 |
| 402068-4 | PXP313-04R\D-07 | 4.8 | < 0.005 | < 0.005 | < 0.005 | < 0.2 | 0.7 | 0.7 | - |
| 402068-5 | PXP319-04R\D-22 | 4.2 | 0.353 | 0.065 | 0.288 | 9.0 | -41.1 | -50.1 | -4.6 |
| 402068-6 | PXP340-04R\E-35 | 4.3 | 0.018 | 0.013 | 0.005 | 0.2 | -6.2 | -6.4 | -39.8 |
| 402068-7 | PXP357-02R\DUP-T | 4.0 | 0.008 | 0.007 | < 0.005 | < 0.2 | -0.2 | -0.3 | - |

The modified acid/base accounting was determined by the Sobek method.
A negative value for Net Neutralizing Potential indicates that the material is a net acid producer.


Total Sulfur was determined using a combustion/infrared method.

[†] Acid soluble, non-volatile sulfur species (sulfate (as S)).

Sulfide was determined as the difference between Total Sulfur and Sulfate (as S).



Matthew Norman, B.Sc., P.Chem.
Senior Chemist
Inorganic Analytical Chemistry



Brannen Burhoe
Supervisor
Inorganic Analytical Chemistry

Methyl Mercury Results

Flett Research Ltd.
440 DeSalaberry Ave. Winnipeg, MB R2L 0Y7
Fax/Phone (204) 667-2505
E-mail: flett@flettresearch.ca Webpage: http://www.flettresearch.ca

CLIENT: Bureau Veritas - Bedford:C1H4101

200 Bluewater Road, Suite 105
Bedford, NS B4B 1G9
Date Received: June 29, 2021
Sampling Date: June 14, 2021 to June 16, 2021
Date Issued: July 14, 2021

Matrix: Sediment (wet)
Transaction ID: 894
PO/Contract No.:
Date Analyzed: July 6, 2021
Analyst(s): Xiang W.

Analytical Method: M10241: Methyl Mercury in Sediment by Distillation, Aqueous Ethylation, Purge and Trap, and CVAFS - Tekran 2700 Mercury Analyser (Version 1)

Detection Limit: The method detection limit (MDL) for this method is 0.04 ng/dry g. The MDL is the minimum concentration that can be reported with 99% confidence that the measured concentration exceeds zero and is based on the distillation of 50 mg of dry sample and the analysis of 1mL of a 13mL distillate.

For reporting purpose samples are flagged when the dry concentration is below the methods minimum level (ML= 0.15 ng/g). As concentration rises above the MDL, confidence that the analyte is present approaches 100% at and above the ML.

Estimated Uncertainty: Overall method uncertainty is expected to decrease as analyte concentration increases. When methyl mercury concentrations exceed the 0.2 ng/g the estimated uncertainty is ±26%. Method uncertainty is expressed at a 95% confidence level of (k=2).

Results authorized by Dr. Robert J. Flett, Chief Scientist

| Blanks | Pg of CH3Hg in the Ethylation Blank | | Mean Gross Peak Area | CH3Hg in the Ethylation Blank (ng/L) | | | | | | | | |
|---|--|-----------------------|---|---|--------------------------------|---|--------------------------------------|----------------------------------|--|------------------------|--------------------|------|
| | Ethylation blank (H2O+Reagents) | 0.35 | 17.37 | 0.012 | | | | | | | | |
| Mean Eth. Blank (last 30 runs) | 0.23 | | | | | | | | | | | |
| Method Blank | Net Pg CH3Hg in the Method Blank (Eth. Blank subtracted) | Gross Peak Area | Equivalent CH3Hg in the Method Blank (ng/g) (Eth. Blank subtracted) Uses the MeanWeight of all the samples in the batch | | | | | | | | | |
| | Method Blank 1 | 0.06 | 20.14 | 0.005 | | | | | | | | |
| | Method Blank 2 | 0.06 | 20.32 | 0.005 | | | | | | | | |
| | Method Blank 3 | 0.20 | 26.99 | 0.016 | | | | | | | | |
| Mean Method Blank | | | 0.008 | | | | | | | | | |
| Mean Calibration Factor (area units / pg) | 49.06 ± 2.7 %RSD | | | | | | | | | | | |
| Spike Recovery | Sample ID (Details) | Sample Type | Gross Peak Area | Weight of Distillate added to the Ethylation EPA Vial (g) | Total Weight of Distillate (g) | Weight of Sample added to the distiller (g) | Percent Weight Lost on Drying (%LOD) | Dry Weight of Reference Material | % CH3Hg Recovery Used for Calculations | Net CH3Hg as Hg (ng/g) | CH3Hg Recovery (%) | |
| | PXP279-02R (A-14) | MS1 | 1704.74 | 0.30 | 13.30 | 0.523 | - | - | 100% | 2.91 | 80.0 | |
| | | MS1D | 1768.59 | 0.30 | 13.09 | 0.528 | - | - | 100% | 2.92 | 81.6 | |
| Mean of Spike Recoveries | | | | | | | | | | | 80.8 | |
| QC Samples | Reference Material (RM) | IAEA-475 (0.199 ng/g) | (beginning of run) | 76.90 | 1.001 | 12.974 | 0.06319 | 2.092 | 0.062 | 100% | 0.2 | 91.7 |
| | | | (end of run) | 127.13 | 2.005 | 12.974 | 0.06319 | 2.092 | 0.062 | 100% | 0.2 | 81.5 |
| Mean of RM Recoveries | | | | | | | | | | | 0.2 | 86.6 |
| Alternate Source Standard (A.S.S.) | A.S.S.-Alfa ID1301 (1000 ng/L) | | | 1545.24 | | | | | 100% | 1038 | 103.8 | |

LAB ID Sampling Details Sample ID Date Sampled Time Sampled Sample Type Gross Peak Area Weight of Distillate added to EPA Vial (g) Total Weight of the Distillate (g) Weight of Wet Sample added to the distiller (g) Percent Weight Lost on Drying (%LOD) Dry Sample Weight by Calculation (g) % CH3Hg Recovery Used for Calculations Net CH3Hg as Hg in the sample (ng/g dry wt.) Net CH3Hg as Hg in the sample (ng/g wet wt.)

| | | | | | | | | | | | | | | |
|--------|------------|------|---------------|-------|-------|---------|------|-------|-------|------|-------|-------|------|------|
| 105110 | PXP279-02R | A-14 | June 14, 2021 | 14:05 | | 963.03 | 0.32 | 13.13 | 0.562 | 40.8 | 0.333 | 80.8% | 2.89 | 1.71 |
| 105111 | PXP280-02R | A-24 | June 15, 2021 | 09:10 | | 1789.32 | 0.30 | 13.22 | 0.516 | 68.8 | 0.161 | 80.8% | 12.2 | 3.79 |
| 105112 | PXP283-02R | A-36 | June 15, 2021 | 09:30 | | 1495.92 | 0.30 | 13.11 | 0.519 | 29.0 | 0.368 | 80.8% | 4.40 | 3.12 |
| 105113 | PXP282-02R | B-36 | June 15, 2021 | 13:45 | | 2613.49 | 0.30 | 13.27 | 0.514 | 49.4 | 0.260 | 80.8% | 11.1 | 5.59 |
| 105116 | PXP310-02R | C-18 | June 16, 2021 | 08:40 | | 1428.56 | 0.30 | 13.40 | 0.532 | 59.8 | 0.214 | 80.8% | 7.41 | 2.98 |
| 105118 | PXP319-02R | D-22 | June 16, 2021 | 16:20 | | 2897.24 | 0.30 | 13.40 | 0.528 | 81.9 | 0.095 | 80.8% | 33.7 | 6.10 |
| 105119 | PXP338-02R | E-31 | June 16, 2021 | 14:15 | DupA1 | 941.74 | 0.30 | 13.32 | 0.556 | 29.7 | 0.391 | 80.8% | 2.63 | 1.85 |
| 105119 | PXP338-02R | E-31 | June 16, 2021 | 14:15 | DupA2 | 922.54 | 0.30 | 13.41 | 0.550 | 29.7 | 0.387 | 80.8% | 2.62 | 1.84 |
| 105121 | PXP342-02R | E-45 | June 16, 2021 | 13:30 | DupB1 | 4259.28 | 0.30 | 13.41 | 0.545 | 87.4 | 0.069 | 80.8% | 69.6 | 8.77 |
| 105121 | PXP342-02R | E-45 | June 16, 2021 | 13:30 | DupB2 | 4264.93 | 0.30 | 13.57 | 0.523 | 87.4 | 0.066 | 80.8% | 73.0 | 9.20 |

C:\Cienes A-L\Bureau Veritas - Bedford\2021\894\Methyl Mercury\MTSE070621XW1.xls

This test report shall not be reproduced, except in full, without written approval of the laboratory. Note: Results relate only to the items tested. Dup - Duplicate - two subsamples of the same sample carried through the analytical procedure in an identical manner.



Methyl Mercury Results

Flett Research Ltd.
440 DeSalaberry Ave. Winnipeg, MB R2L 0Y7
Fax/Phone (204) 667-2505
E-mail: flett@flettresearch.ca Webpage: http://www.flettresearch.ca

CLIENT: Bureau Veritas - Bedford:C1H4101

200 Bluewater Road, Suite 105
Bedford, NS B4B 1G9
Date Received: June 29, 2021
Sampling Date: June 15, 2021 to June 17, 2021
Date Issued: July 14, 2021

Matrix: Sediment (wet)
Transaction ID: 894
PO/Contract No.:
Date Analyzed: July 8, 2021
Analyst(s): Xiang W.

Analytical Method: M10241: Methyl Mercury in Sediment by Distillation, Aqueous Ethylation, Purge and Trap, and CVAFS - Tekran 2700 Mercury Analyser (Version 1)

Detection Limit: The method detection limit (MDL) for this method is 0.04 ng/dry g. The MDL is the minimum concentration that can be reported with 99% confidence that the measured concentration exceeds zero and is based on the distillation of 50 mg of dry sample and the analysis of 1mL of a 13mL distillate.

For reporting purpose samples are flagged when the dry concentration is below the methods minimum level (ML= 0.15 ng/g). As concentration rises above the MDL, confidence that the analyte is present approaches 100% at and above the ML.

Estimated Uncertainty: Overall method uncertainty is expected to decrease as analyte concentration increases. When methyl mercury concentrations exceed the 0.2 ng/g the estimated uncertainty is ±26%. Method uncertainty is expressed at a 95% confidence level of (k=2).

Results authorized by Dr. Robert J. Flett, Chief Scientist

| Blanks | | Pg of CH3Hg in the Ethylation Blank | Mean Gross Peak Area | CH3Hg in the Ethylation Blank (ng/L) <small>assumes volume in the vial is 30mL</small> | | | | | | | | | | |
|--|---|--|-----------------------------------|---|---|--------------------------------|--|--|---|--|--------------------------------------|--|---|--|
| Ethylation blank (H2O+Reagents) | | 0.28 | 14.54 | 0.009 | | | | | | | | | | |
| Mean Eth. Blank (last 30 runs) | | 0.22 | | | | | | | | | | | | |
| | | Net Pg CH3Hg in the Method Blank <small>(Eth. Blank subtracted)</small> | Gross Peak Area | Equivalent CH3Hg in the Method Blank (ng/g) <small>(Eth. Blank subtracted) Uses the MeanWeight of all the samples in the batch</small> | | | | | | | | | | |
| Method Blank 1 | | 0.13 | 21.62 | 0.015 | | | | | | | | | | |
| Method Blank 2 | | 0.20 | 25.05 | 0.023 | | | | | | | | | | |
| Method Blank 3 | | -0.01 | 14.27 | -0.001 | | | | | | | | | | |
| Mean Method Blank | | | | 0.013 | | | | | | | | | | |
| Mean Calibration Factor <small>(area units / pg)</small> | | 52.57 ± 1.4 %RSD | | | | | | | | | | | | |
| QUALITY DATA | Spike Recovery <small>Matrix Spike (MS) and Matrix Spike Duplicate (MSD)</small> | Sample ID (Details) | Sample Type | Gross Peak Area | Weight of Distillate added to the Ethylation EPA Vial (g) | Total Weight of Distillate (g) | Weight of Sample added to the distiller (g) | Percent Weight Lost on Drying (%LOD) | Dry Weight of Reference Material | % CH3Hg Recovery Used for Calculations | Net CH3Hg as Hg (ng/g) | CH3Hg Recovery (%) | | |
| | | PXP309-02R (C-13) | MS1 | 2135.46 | 0.50 | 14.40 | 0.203 | - | - | 100% | 5.72 | 78.2 | | |
| | | | MS1D | 2238.22 | 0.50 | 14.25 | 0.211 | - | - | 100% | 5.69 | 80.6 | | |
| | | Mean of Spike Recoveries | | | | | | | | | | 79.4 | | |
| | | FRES02 (23.9 ng/g) | <small>(beginning of run)</small> | 1327.50 | 0.500 | 13.378 | 0.03057 | 1.397 | 0.030 | 100% | 22.1 | 92.5 | | |
| | | <small>(end of run)</small> | 1296.72 | 0.502 | 13.378 | 0.03057 | 1.397 | 0.030 | 100% | 21.5 | 89.9 | | | |
| | Mean of RM Recoveries | | | | | | | | | | | | | |
| | <small>Alternate Source Standard (A.S.S)</small> | A.S.S.-Alfa ID1301 (1000 ng/L) | | 1511.73 | | | | | | 100% | 949 | 94.9 | | |
| LAB ID | Sampling Details | Sample ID | Date Sampled | Time Sampled | Sample Type | Gross Peak Area | Weight of Distillate added to EPA Vial (g) =Vpd | Total Weight of the Distillate (g) =VTd | Weight of Wet Sample added to the distiller (g) | Percent Weight Lost on Drying (%LOD) | Dry Sample Weight by Calculation (g) | % CH3Hg Recovery Used for Calculations | Net CH3Hg as Hg in the sample <small>(ng/g dry wt.) [Ethylation & Method Blank subtracted] As Calculated</small> | Net CH3Hg as Hg in the sample <small>(ng/g wet wt.) [Ethylation & Method Blank subtracted] [Recovery corrected] As Analyzed</small> |
| 105114 | PXP293-02R | B-37 | June 15, 2021 | 11:05 | | 333.17 | 0.50 | 13.40 | 0.238 | 27.3 | 0.173 | 79.4% | 1.16 | 0.84 |
| 105115 | PXP309-02R | C-13 | June 16, 2021 | 10:25 | | 979.92 | 0.50 | 13.36 | 0.258 | 27.3 | 0.188 | 79.4% | 3.25 | 2.37 |
| 105117 | PXP313-02R | D-07 | June 16, 2021 | 11:00 | | 481.50 | 0.50 | 13.31 | 0.224 | 22.5 | 0.174 | 79.4% | 1.68 | 1.30 |
| 105120 | PXP340-02R | E-35 | June 17, 2021 | 09:15 | | 6528.20 | 0.50 | 13.40 | 0.218 | 39.7 | 0.131 | 79.4% | 31.6 | 19.1 |
| 105122 | PXP357-02R | DUP-T | June 15, 2021 | | DupA1 | 380.71 | 0.50 | 13.23 | 0.228 | 21.3 | 0.179 | 79.4% | 1.27 | 1.00 |
| 105122 | PXP357-02R | DUP-T | June 15, 2021 | | DupA2 | 348.50 | 0.50 | 13.21 | 0.232 | 21.3 | 0.183 | 79.4% | 1.13 | 0.89 |

Q:\Clients A-L\Bureau Veritas - Bedford\2021\094\Methyl Mercury\MTSE0W070821XV1.xls

* : See 'Comments' section above for discussion

This test report shall not be reproduced, except in full, without written approval of the laboratory.

Note: Results relate only to the items tested.

Dup : Duplicate - two subsamples of the same sample carried through the analytical procedure in an identical manner.





Your P.O. #: 73524259
 Your Project #: 11222385-07-04
 Site Location: GOLDBORO
 Your C.O.C. #: N/A

Attention: Glen Merkley

GHD Limited
 120 Western Parkway
 Bedford, NS
 CANADA B4B 0V2

Report Date: 2021/07/30
 Report #: R6744463
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1K3115

Received: 2021/07/21, 10:54

Sample Matrix: Soil
 # Samples Received: 12

| Analyses | Quantity | Date | Date | Laboratory Method | Analytical Method |
|------------------------------------|----------|------------|------------|-------------------|-------------------|
| | | Extracted | Analyzed | | |
| Metals Leach TCLP/CGSB extraction | 3 | 2021/07/27 | 2021/07/27 | ATL SOP 00058 | EPA 6020B R2 m |
| Metals Leach TCLP/CGSB extraction | 4 | 2021/07/27 | 2021/07/28 | ATL SOP 00058 | EPA 6020B R2 m |
| Metals Leach TCLP/CGSB extraction | 1 | 2021/07/27 | 2021/07/29 | ATL SOP 00058 | EPA 6020B R2 m |
| Metals Leach TCLP/CGSB extraction | 3 | 2021/07/28 | 2021/07/29 | ATL SOP 00058 | EPA 6020B R2 m |
| Metals Leach TCLP/CGSB extraction | 1 | 2021/07/29 | 2021/07/29 | ATL SOP 00058 | EPA 6020B R2 m |
| TCLP Inorganic extraction - pH | 8 | N/A | 2021/07/27 | ATL SOP 00035 | EPA 1311 m |
| TCLP Inorganic extraction - pH | 3 | N/A | 2021/07/28 | ATL SOP 00035 | EPA 1311 m |
| TCLP Inorganic extraction - pH | 1 | N/A | 2021/07/29 | ATL SOP 00035 | EPA 1311 m |
| TCLP Inorganic extraction - Weight | 8 | N/A | 2021/07/27 | ATL SOP 00035 | EPA 1311 m |
| TCLP Inorganic extraction - Weight | 3 | N/A | 2021/07/28 | ATL SOP 00035 | EPA 1311 m |
| TCLP Inorganic extraction - Weight | 1 | N/A | 2021/07/29 | ATL SOP 00035 | EPA 1311 m |

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested. This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.



Your P.O. #: 73524259
Your Project #: 11222385-07-04
Site Location: GOLDBORO
Your C.O.C. #: N/A

Attention: Glen Merkley

GHD Limited
120 Western Parkway
Bedford, NS
CANADA B4B 0V2

Report Date: 2021/07/30
Report #: R6744463
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1K3115
Received: 2021/07/21, 10:54

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Atena Georgescu, Project Manager II
Email: Atena.Georgescu@bureauveritas.com
Phone# (902)420-0203 Ext:239

=====
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BUREAU
VERITAS

BV Labs Job #: C1K3115
Report Date: 2021/07/30

GHD Limited
Client Project #: 11222385-07-04
Site Location: GOLDBORO
Your P.O. #: 73524259
Sampler Initials: JV

RESULTS OF ANALYSES OF SOIL

| | | | | | | | | | | |
|----------------------|--------------|-------------|-----------------|-------------|---------------------|-----------------|-------------|-------------|-------------|-----------------|
| BV Labs ID | | QDR840 | | QDR841 | QDR841 | | QDR842 | QDR843 | QDR844 | |
| Sampling Date | | 2021/06/14 | | 2021/06/15 | 2021/06/15 | | 2021/06/15 | 2021/06/15 | 2021/06/15 | |
| COC Number | | N/A | | N/A | N/A | | N/A | N/A | N/A | |
| | UNITS | A-14 | QC Batch | A-24 | A-24 Lab-Dup | QC Batch | A-36 | B-36 | B-37 | QC Batch |

| | | | | | | | | | | |
|-----------------------------|-----|-----|---------|-----|-----|---------|-----|-----|-----|---------|
| Inorganics | | | | | | | | | | |
| Sample Weight (as received) | g | 93 | 7490878 | 100 | 100 | 7490905 | 100 | 100 | 100 | 7485751 |
| Initial pH | N/A | 4.9 | 7490881 | 4.9 | 4.9 | 7490907 | 4.9 | 4.9 | 4.9 | 7485753 |
| Final pH | N/A | 4.9 | 7490881 | 4.9 | 4.9 | 7490907 | 4.9 | 4.9 | 4.9 | 7485753 |

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate

| | | | | | | | | | | |
|----------------------|--------------|---------------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|
| BV Labs ID | | QDR844 | QDR845 | | QDR846 | | QDR847 | | QDR848 | |
| Sampling Date | | 2021/06/15 | 2021/06/16 | | 2021/06/16 | | 2021/06/16 | | 2021/06/16 | |
| COC Number | | N/A | N/A | | N/A | | N/A | | N/A | |
| | UNITS | B-37 Lab-Dup | C-13 | QC Batch | C-18 | QC Batch | D-07 | QC Batch | D-22 | QC Batch |

| | | | | | | | | | | |
|-----------------------------|-----|-----|-----|---------|-----|---------|-----|---------|-----|---------|
| Inorganics | | | | | | | | | | |
| Sample Weight (as received) | g | 100 | 100 | 7485751 | 73 | 7490878 | 100 | 7485751 | 78 | 7490878 |
| Initial pH | N/A | 4.9 | 4.9 | 7485753 | 4.9 | 7490881 | 4.9 | 7485753 | 4.9 | 7490881 |
| Final pH | N/A | 4.9 | 4.9 | 7485753 | 4.9 | 7490881 | 4.9 | 7485753 | 4.9 | 7490881 |

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate

| | | | | | |
|----------------------|--------------|-------------|-------------|-------------|-----------------|
| BV Labs ID | | QDR849 | QDR850 | QDR851 | |
| Sampling Date | | 2021/06/16 | 2021/06/17 | 2021/06/16 | |
| COC Number | | N/A | N/A | N/A | |
| | UNITS | E-31 | E-35 | E-45 | QC Batch |

| | | | | | |
|-----------------------------|-----|-----|-----|-----|---------|
| Inorganics | | | | | |
| Sample Weight (as received) | g | 100 | 99 | 100 | 7485751 |
| Initial pH | N/A | 4.9 | 4.9 | 4.9 | 7485753 |
| Final pH | N/A | 4.9 | 4.9 | 4.9 | 7485753 |

QC Batch = Quality Control Batch



BUREAU
VERITAS

BV Labs Job #: C1K3115
Report Date: 2021/07/30

GHD Limited
Client Project #: 11222385-07-04
Site Location: GOLDBORO
Your P.O. #: 73524259
Sampler Initials: JV

ELEMENTS BY ICP/MS (SOIL)

| | | | | | | | | | | |
|----------------------|--------------|-------------|-----------------|-------------|---------------------|-----------------|-------------|-------------|------------|-----------------|
| BV Labs ID | | QDR840 | | QDR841 | QDR841 | | QDR842 | QDR843 | | |
| Sampling Date | | 2021/06/14 | | 2021/06/15 | 2021/06/15 | | 2021/06/15 | 2021/06/15 | | |
| COC Number | | N/A | | N/A | N/A | | N/A | N/A | | |
| | UNITS | A-14 | QC Batch | A-24 | A-24 Lab-Dup | QC Batch | A-36 | B-36 | RDL | QC Batch |

| | | | | | | | | | | |
|--|------|-----|---------|-----|-----|---------|-----|----|----|---------|
| Metals | | | | | | | | | | |
| Leachable Arsenic (As) | ug/L | 500 | 7488191 | 370 | 350 | 7490336 | <20 | 37 | 20 | 7485192 |
| RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate | | | | | | | | | | |

| | | | | | | | | | | | | |
|----------------------|--------------|-------------|---------------------|------------|-------------|------------|-----------------|-------------|-----------------|-------------|------------|-----------------|
| BV Labs ID | | QDR844 | QDR844 | | QDR845 | | | QDR846 | | QDR847 | | |
| Sampling Date | | 2021/06/15 | 2021/06/15 | | 2021/06/16 | | | 2021/06/16 | | 2021/06/16 | | |
| COC Number | | N/A | N/A | | N/A | | | N/A | | N/A | | |
| | UNITS | B-37 | B-37 Lab-Dup | RDL | C-13 | RDL | QC Batch | C-18 | QC Batch | D-07 | RDL | QC Batch |

| | | | | | | | | | | | | |
|--|------|------|------|----|------|-----|---------|----|---------|------|----|---------|
| Metals | | | | | | | | | | | | |
| Leachable Arsenic (As) | ug/L | 1700 | 1900 | 20 | 6000 | 200 | 7485192 | 78 | 7488191 | 1600 | 20 | 7485192 |
| RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate | | | | | | | | | | | | |

| | | | | | | | | |
|----------------------|--------------|-------------|-----------------|-------------|-------------|-------------|------------|-----------------|
| BV Labs ID | | QDR848 | | QDR849 | QDR850 | QDR851 | | |
| Sampling Date | | 2021/06/16 | | 2021/06/16 | 2021/06/17 | 2021/06/16 | | |
| COC Number | | N/A | | N/A | N/A | N/A | | |
| | UNITS | D-22 | QC Batch | E-31 | E-35 | E-45 | RDL | QC Batch |

| | | | | | | | | |
|--|------|----|---------|-----|------|----|----|---------|
| Metals | | | | | | | | |
| Leachable Arsenic (As) | ug/L | 23 | 7488191 | 620 | 2600 | 81 | 20 | 7485192 |
| RDL = Reportable Detection Limit QC Batch = Quality Control Batch | | | | | | | | |



BUREAU
VERITAS

BV Labs Job #: C1K3115
Report Date: 2021/07/30

GHD Limited
Client Project #: 11222385-07-04
Site Location: GOLDBORO
Your P.O. #: 73524259
Sampler Initials: JV

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

| | |
|-----------|-------|
| Package 1 | 7.7°C |
| Package 2 | 7.7°C |
| Package 3 | 7.3°C |

Sample QDR840 [A-14] : The minimum weight of 100g for the standard TCLP extraction, as per Reference Method EPA 1311 R1992, could not be achieved due to insufficient sample. Client consent has been received to proceed using the modified TCLP method. The uncertainty of the analysis may be increased, and the reported results may not be suitable for compliance purposes.

Sample QDR846 [C-18] : The minimum weight of 100g for the standard TCLP extraction, as per Reference Method EPA 1311 R1992, could not be achieved due to insufficient sample. Client consent has been received to proceed using the modified TCLP method. The uncertainty of the analysis may be increased, and the reported results may not be suitable for compliance purposes.

Sample QDR848 [D-22] : The minimum weight of 100g for the standard TCLP extraction, as per Reference Method EPA 1311 R1992, could not be achieved due to insufficient sample. Client consent has been received to proceed using the modified TCLP method. The uncertainty of the analysis may be increased, and the reported results may not be suitable for compliance purposes.

Sample QDR850 [E-35] : The minimum weight of 100g for the standard TCLP extraction, as per Reference Method EPA 1311 R1992, could not be achieved due to insufficient sample. Client consent has been received to proceed using the modified TCLP method. The uncertainty of the analysis may be increased, and the reported results may not be suitable for compliance purposes.

Results relate only to the items tested.



QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|-------------|------|--------------------------|-----------------------------|---------------|-------|----------|-------|-----------|
| 7485192 | BAN | Matrix Spike [QDR844-01] | Leachable Arsenic (As) | 2021/07/28 | | NC | % | 75 - 125 |
| 7485192 | BAN | Spiked Blank | Leachable Arsenic (As) | 2021/07/27 | | 94 | % | 75 - 125 |
| 7485192 | BAN | Method Blank | Leachable Arsenic (As) | 2021/07/27 | <20 | | ug/L | |
| 7485192 | BAN | RPD [QDR844-01] | Leachable Arsenic (As) | 2021/07/27 | 14 | | % | 35 |
| 7485751 | EPU | Method Blank | Sample Weight (as received) | 2021/07/27 | NA | | g | |
| 7485751 | EPU | RPD [QDR844-01] | Sample Weight (as received) | 2021/07/27 | 0.23 | | % | N/A |
| 7488191 | BAN | Matrix Spike | Leachable Arsenic (As) | 2021/07/29 | | 101 | % | 75 - 125 |
| 7488191 | BAN | Spiked Blank | Leachable Arsenic (As) | 2021/07/29 | | 106 | % | 75 - 125 |
| 7488191 | BAN | Method Blank | Leachable Arsenic (As) | 2021/07/29 | <20 | | ug/L | |
| 7488191 | BAN | RPD | Leachable Arsenic (As) | 2021/07/29 | NC | | % | 35 |
| 7490336 | BAN | Matrix Spike [QDR841-01] | Leachable Arsenic (As) | 2021/07/29 | | 99 | % | 75 - 125 |
| 7490336 | BAN | Spiked Blank | Leachable Arsenic (As) | 2021/07/29 | | 98 | % | 75 - 125 |
| 7490336 | BAN | Method Blank | Leachable Arsenic (As) | 2021/07/29 | <20 | | ug/L | |
| 7490336 | BAN | RPD [QDR841-01] | Leachable Arsenic (As) | 2021/07/29 | 8.0 | | % | 35 |
| 7490878 | EPU | Method Blank | Sample Weight (as received) | 2021/07/28 | NA | | g | |
| 7490878 | EPU | RPD | Sample Weight (as received) | 2021/07/28 | 0.016 | | % | N/A |
| 7490905 | EPU | Method Blank | Sample Weight (as received) | 2021/07/29 | NA | | g | |
| 7490905 | EPU | RPD [QDR841-01] | Sample Weight (as received) | 2021/07/29 | 0.27 | | % | N/A |

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).



BV Labs Job #: C1K3115
Report Date: 2021/07/30

GHD Limited
Client Project #: 11222385-07-04
Site Location: GOLDBORO
Your P.O. #: 73524259
Sampler Initials: JV

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Eric Dearman, Scientific Specialist

Mike MacGillivray, Scientific Specialist (Inorganics)

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



200 Bluewater Road, Suite 105, Bedford, Nova Scotia B4B 1G9 Tel: 902-420-0203 Fax: 902-420-8012 Toll Free: 1-800-595-7227
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 485 George Street, Unit G, Sydney, NS B1P 1K5 Tel: 902-562-1255 Fax: 902-539-6504 Toll Free: 1-888-535-7770

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E-mail: customerservicebedford@bvlabs.com

CHAIN OF CUSTODY RECORD

COC #:

Page 2 OF 7

| Invoice Information | | | Report Information (if differs from invoice) | | | Project Information (where applicable) | | | Turnaround Time (TAT) Required | | | | | | | | | | | | | | | | | | | |
|---|--------|---------------------------|---|---------------------|---------------------------|--|-------------------------|---|---|--|----------------------------|-----------------------------------|----------------------|---------------|--|--|--------------------------|--------------|----------------------------|----------------|------------|---------------|--------------|------------------------|------------|-----------------------------------|-----------------------------------|----------|
| Company Name: GHD Limited | | | Company Name: GHD Limited | | | Quotation #: Anaconda Rates | | | <input checked="" type="checkbox"/> Regular TAT (5 business days) Most analyses <input type="checkbox"/> RUSH (Please specify date (Surcharges will be applied)) | | | | | | | | | | | | | | | | | | | |
| Contact Name: Accounts Payable - 762 | | | Contact Name: Glen Merkley | | | Purchase Order#: To follow | | | PLEASE PROVIDE ADVANCE NOTICE FOR RUSH PROJECTS | | | | | | | | | | | | | | | | | | | |
| Address: 120 Western Parkway Bedford, NS PC: B4B 0V2 | | | Address: 120 Western Parkway Bedford, NS PC: B4B 0V2 | | | Project #: 11222385 | | | DATE REQUIRED: | | | | | | | | | | | | | | | | | | | |
| Phone: (902)468-1248 / Fax: (902)468-2207 | | | Phone: (902) 802-4790 | | | Site Location: Goldboro | | | | | | | | | | | | | | | | | | | | | | |
| Email: invoicing-canada@ghd.com | | | Email: glen.merkley@ghd.com | | | Site Province: Nova Scotia | | | | | | | | | | | | | | | | | | | | | | |
| Report Copies: | | | Report Copies: | | | Site #: | | | | | | | | | | | | | | | | | | | | | | |
| Report Copies: | | | Report Copies: | | | Sampled By: JV / IR / DB / ER | | | | | | | | | | | | | | | | | | | | | | |
| Laboratory Use Only | | | | Analysis Requested | | | | | | | | | | | | | | | | | | | | | | | | |
| CUSTODY SEAL | | COOLER TEMPERATURES | | COOLER TEMPERATURES | | Analysis Requested | | | | | | | | | | | | | | | | | | | | | | |
| Present | Intact | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 7, 8, 8 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 8, 8, 7 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 6, 7, 9 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| COOLING MEDIA PRESENT Y / N | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SAMPLES MUST BE KEPT COOL (< 10 °C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SAMPLE IDENTIFICATION | | DATE SAMPLED (YYYY/MM/DD) | TIME SAMPLED (HH:MM) | MATRIX | # OF CONTAINERS SUBMITTED | FIELD FILTERED & PRESERVED | LAB FILTRATION REQUIRED | RCAP-MS (Total Metals) Well / Surface water | RCAP-MS (Dissolved Metals) Ground waters | Total Digest (Default Method for well water & surface water) | Dissolved for ground water | Mercury (ICCLE) TOTAL / DISCLOSED | Metals (Water) | Metals (Soil) | Metals & Mercury (Default Acid Extraction, available Digest) | Non Water Soluble Boron (required for CDGE Agriculture (am/fil)) | General Chemistry (Soil) | TC (pH Soil) | Total Organic Carbon (TOC) | Methyl Mercury | Grain Size | Total Sulphur | Total Carbon | Total Inorganic Carbon | Sulphate S | Modified Neutralization Potential | Regulatory Requirements (Specify) | COMMENTS |
| 1 | B-04 | 6/15/2021 | 2:50 PM | Soil | 1 | | | | | | | | X | X | | | | | | | | | | | | | | |
| 2 | B-06 | 6/15/2021 | 11:05 AM | Soil | 1 | | | | | | | | X | X | | | | | | | | | | | | | | |
| 3 | B-13 | 6/15/2021 | 12:40 PM | Soil | 1 | | | | | | | | X | X | | | | | | | | | | | | | | |
| 4 | B-21 | 6/15/2021 | 2:30 PM | Soil | 1 | | | | | | | | X | X | | | | | | | | | | | | | | |
| 5 | B-24 | 6/15/2021 | 11:30 AM | Soil | 1 | | | | | | | | X | X | | | | | | | | | | | | | | |
| 6 | B-36 | 6/15/2021 | 1:45 PM | Soil | 2 | | | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| 7 | B-37 | 6/15/2021 | 11:05 AM | Soil | 4 | | | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| 8 | B-38 | 6/15/2021 | 12:00 PM | Soil | 2 | | | | | | | | X | X | | | | | | | X | X | X | X | X | | | |
| 9 | B-40 | 6/15/2021 | 10:15 AM | Soil | 1 | | | | | | | | X | X | | | | | | | | | | | | | | |
| 10 | B-46 | 6/15/2021 | 3:45 PM | Soil | 1 | | | | | | | | X | X | | | | | | | | | | | | | | |
| RELINQUISHED BY: (Signature/Print) | | DATE: (YYYY/MM/DD) | | TIME: (HH:MM) | | RECEIVED BY: (Signature/Print) | | | DATE: (YYYY/MM/DD) | | TIME: (HH:MM) | | BV LABS JOB # | | | | | | | | | | | | | | | |
| Emma Rivard | | 2021/06/22 | | 4:30pm | | Matt Grace | | | | | | | CIH 4101 CIK 3115 | | | | | | | | | | | | | | | |

Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to BV Labs standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms which are available for viewing at www.bvlabs.com

White: Maxxam

Pink: Client



200 Bluewater Road, Suite 105, Bedford, Nova Scotia B4B 1G9 Tel: 902-420-0203 Fax: 902-420-8612 Toll Free: 1-800-565-7227
 49-55 Elizabeth Avenue, St John's NL A1A 1W9 Tel: 709-754-0203 Fax: 709-754-8612 Toll Free: 1-888-492-7227
 465 George Street, Unit G, Sydney, NS B1P 1K5 Tel: 902-587-1255 Fax: 902-530-6904 Toll Free: 1-888-535-7770

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CHAIN OF CUSTODY RECORD

COC #:

Page 3 Of 7

| Invoice Information | Report Information (if differs from invoice) | Project Information (where applicable) | Turnaround Time (TAT) Required |
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| Company Name: <u>GHD Limited</u> Contact Name: <u>Accounts Payable - 762</u> Address: <u>120 Western Parkway</u> <u>Bedford, NS</u> PC: <u>B4B 0V2</u> Phone: <u>(902)468-1248 / Fax: (902)468-2207</u> Email: <u>invoicing-canada@ghd.com</u> Report Copies: _____ | Company Name: <u>GHD Limited</u> Contact Name: <u>Glen Merkle</u> Address: <u>120 Western Parkway</u> <u>Bedford, NS</u> PC: <u>B4B 0V2</u> Phone: <u>(902) 802-4790</u> Email: <u>glen.merkley@ghd.com</u> Report Copies: _____ | Quotation #: <u>Anacosta Rates</u> Purchase Order #: <u>To follow</u> Project #: <u>11222385</u> Site Location: <u>Goldboro</u> Site Province: <u>Nova Scotia</u> Site #: _____ Sampled By: <u>IV / IR / DB / ER</u> | <input checked="" type="checkbox"/> Regular TAT (5 business days) Most analyses PLEASE PROVIDE ADVANCE NOTICE FOR RUSH PROJECTS IF RUSH please specify date (Surcharges will be applied) DATE REQUIRED: _____ |

| Laboratory Use Only | | | | | Analysis Requested | | | | | | | | | | | | | | Regulatory Requirements (Specify) | | | | | | | | | | | | |
|-----------------------------|--------|---------------------------|----------------------|---------------------|--|----------------------------|-------------------------|---|---|----------------|--|---------------|--|--|----------------------------|------------------------------------|----------------|---|-----------------------------------|---|--------------------------|------------|----------------------------|----------------|------------|---------------|--------------|------------------------|------------|-----------------------------------|---------------------|
| CUSTODY SEAL | | COOLER TEMPERATURES | | COOLER TEMPERATURES | # OF CONTAINERS SUBMITTED | FIELD FILTERED / PRESERVED | LAI FILTRATION REQUIRED | PCAP-MS (Total Metals) Well / Surface water | PCAP-MS (Dissolved Metals) Ground water | Metals (Water) | | Metals (Soil) | | Total Digest (Default Method) for well water & surface water | Dissolved for Ground water | Mercury (CIRCLE) TOTAL / DISSOLVED | Methyl Mercury | Default Acid Extractable (Available) Digest | | Hot Water Soluble Boron required for (CCOF, Agriculture) / Landfill | General Chemistry (Soil) | TCP (Soil) | Total Organic Carbon (TOC) | Methyl Mercury | Grain Size | Total Sulphur | Total Carbon | Total Inorganic Carbon | Sulphate S | Modified Neutralization Potential | HOLD-DO NOT ANALYZE |
| Present | Intact | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 7, 8, 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 8, 8, 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 6, 7, 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| COOLING MEDIA PRESENT Y / N | | | | | SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SAMPLE IDENTIFICATION | | DATE SAMPLED (YYYY/MM/DD) | TIME SAMPLED (HH:MM) | MATRIX | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | B-47 | 6/15/2021 | 3:10 PM | Soil | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | B-56 | 6/15/2021 | 1:05 PM | Soil | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | B-63 | 6/15/2021 | 4:30 PM | Soil | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | B-67 | 6/15/2021 | 12:40 PM | Soil | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | B-69 | 6/16/2021 | 3:20 PM | Soil | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | C-01 | 6/16/2021 | 9:50 AM | Soil | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | C-03 | 6/16/2021 | 11:10 AM | Soil | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | C-07 | 6/16/2021 | 9:10 AM | Soil | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | C-13 | 6/16/2021 | 10:25 AM | Soil | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | C-18 | 6/16/2021 | 8:40 AM | Soil | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |

| RELINQUISHED BY: (Signature/Print) | DATE: (YYYY/MM/DD) | TIME: (HH:MM) | RECEIVED BY: (Signature/Print) | DATE: (YYYY/MM/DD) | TIME: (HH:MM) | BV LABS JOB # |
|------------------------------------|--------------------|---------------|--------------------------------|--------------------|---------------|----------------------------------|
| <u>Emma Rivard</u> | <u>2021/06/12</u> | <u>4:30pm</u> | <u>MATT GRAVE</u> | | | <u>CIH4101</u> <u>CIK3115</u> |

Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to BV Labs Standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms which are available for viewing at www.bvlabs.com

White: Maxxam

Pink: Client



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CHAIN OF CUSTODY RECORD

COC #:

Page 4 of 7

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| Invoice Information | | Report Information (if differs from invoice) | | Project Information (where applicable) | | Turnaround Time (TAT) Required | |
| Company Name: <u>GHD Limited</u> | | Company Name: <u>GHD Limited</u> | | Quotation #: <u>Anacosta Rates</u> | | <input checked="" type="checkbox"/> Regular TAT (5 business days) Most analyses PLEASE PROVIDE ADVANCE NOTICE FOR RUSH PROJECTS IF RUSH please specify date (Surcharges will be applied) DATE REQUIRED: | |
| Contact Name: <u>Accounts Payable - 762</u> | | Contact Name: <u>Glen Merklej</u> | | Purchase Order #: <u>To follow</u> | | | |
| Address: <u>120 Western Parkway</u> <u>Bedford, NS</u> PC: <u>B4B 0V2</u> | | Address: <u>120 Western Parkway</u> <u>Bedford, NS</u> PC: <u>B4B 0V2</u> | | Project #: <u>11222385</u> | | | |
| Phone: <u>(902)468-1248 / Fax: (902)468-2207</u> | | Phone: <u>(902) 802-4790</u> | | Site Location: <u>Soleboro</u> | | | |
| Email: <u>invoicing-canada@ghd.com</u> | | Email: <u>glen.merklej@ghd.com</u> | | Site Province: <u>Nova Scotia</u> | | | |
| Report Copies: _____ | | Report Copies: _____ | | Site #: _____ | | | |
| | | | | Sampled By: <u>JV / JR / DB / ER</u> | | | |

| Laboratory Use Only | | | | Analysis Requested | | | | | | | | | | | | | | Regulatory Requirements (Specify) | | | | | | |
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| CUSTODY SEAL | | COOLER TEMPERATURES | | COOLER TEMPERATURES | | # OF CONTAINERS SUBMITTED | FIELD FILTERED & PRESERVED | LAB FILTRATION - REQUIRED | RCAP - MS (Total Metals) / Soil / Surface water | RCAP - MS (Dissolved Metals) / Ground waters | Metals (Water) | | Metals (Soil) | | Total Organic Carbon (TOC) | Methyl Mercury | Grain Size | Total Sulphur | Total Carbon | Total Inorganic Carbon | Sulphate S | Modifier Neutralization Potential | HOLD - DO NOT ANALYZE | COMMENTS |
| Present | Intact | | | | | | | | | | | | | | | | | | | | | | | |
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CHAIN OF CUSTODY RECORD

COC #:

Page 5 OF 7

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|---|--|--|--|--|--|---|--|
| Invoice Information Company Name: <u>GHD Limited</u> Contact Name: <u>Accounts Payable - 762</u> Address: <u>120 Western Parkway</u> <u>Bedford, NS</u> PC: <u>B4B 0V2</u> Phone: <u>(902)468-1248 / Fax: (902)468-2207</u> Email: <u>invoicing-canada@ghd.com</u> Report Copies: _____ | | Report Information (if differs from Invoice) Company Name: <u>GHD Limited</u> Contact Name: <u>Glen Merkley</u> Address: <u>120 Western Parkway</u> <u>Bedford, NS</u> PC: <u>B4B 0V2</u> Phone: <u>(902) 802-4790</u> Email: <u>glen.merkley@ghd.com</u> Report Copies: _____ | | Project Information (where applicable) Quotation #: <u>Anaconda Rates</u> Purchase Order#: <u>To follow</u> Project #: <u>11222385</u> Site Location: <u>Goldboro</u> Site Province: <u>Nova Scotia</u> Site #: _____ Sampled By: <u>JV / JR / DB / ER</u> | | Turnaround Time (TAT) required <input checked="" type="checkbox"/> Regular TAT (5 business days) Most analyses PLEASE PROVIDE ADVANCE NOTICE FOR RUSH PROJECTS IF RUSH please specify date (Surcharges will be applied) DATE REQUIRED: _____ | |
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| Laboratory Use Only | | | | | Analysis Requested | | | | | | | | | | | | | | | Regulatory Requirements (Specify) | | | | | | | |
|---|--------|---------------------------|----------------------|--------------------------------|----------------------------|----------------------------|--|--|---|---|------------------------------------|--|--|---|--------------------------|---------------|----------------------------|------------------------|------------|---|-----------------------------------|------------------------|------------|-----------------------------------|-----------------------|----------|--|
| CUSTODY SEAL | | COOLER TEMPERATURES | | COOLER TEMPERATURES | FIELD FILTERED & PRESERVED | LAB FILTRATION REQUIRED | RCAP-MS (Total Metals) Wet / Surface water | RCAP-MS (Dissolved Metals) Ground waters | Metals (Water) | | Metals (Soil) | | Total Organic Carbon (TOC) | Methyl Mercury | Grain Size | Total Sulphur | Total Carbon | Total Inorganic Carbon | Sulphate S | | Modified Neutralization Potential | HOLD - DO NOT ANALYZE | COMMENTS | | | | |
| Present | Intact | | | | | | | | Total Dissolved Solids (TDS) (for well water & surface water) | Dissolved for Ground water | Mercury (CIRCLE) TOTAL / DISSOLVED | Metals & Mercury (for Acid Extractable (available) Digest) | | | | | | | | Hot Water Soluble Boron (required for CROP Agricultural / Landfill) | | | | General Chemistry (Soil) | TCLP (Soil) | | |
| | | | 7, 8, 8 | | | | | | | | | | | | | | | | | | | | | | | | |
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| COOLING MEDIA PRESENT Y / N | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SAMPLES MUST BE KEPT COOL (< 10 °C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SAMPLE IDENTIFICATION | | DATE SAMPLED (YYYY/MM/DD) | TIME SAMPLED (HH:MM) | MATRIX | # OF CONTAINERS SUBMITTED | FIELD FILTERED & PRESERVED | LAB FILTRATION REQUIRED | RCAP-MS (Total Metals) Wet / Surface water | RCAP-MS (Dissolved Metals) Ground waters | Total Dissolved Solids (TDS) (for well water & surface water) | Dissolved for Ground water | Mercury (CIRCLE) TOTAL / DISSOLVED | Metals & Mercury (for Acid Extractable (available) Digest) | Hot Water Soluble Boron (required for CROP Agricultural / Landfill) | General Chemistry (Soil) | TCLP (Soil) | Total Organic Carbon (TOC) | Methyl Mercury | Grain Size | Total Sulphur | Total Carbon | Total Inorganic Carbon | Sulphate S | Modified Neutralization Potential | HOLD - DO NOT ANALYZE | COMMENTS | |
| 1 | E-05 | 6/16/2021 | 4:11 PM | Soil | 1 | | | | | | | | X | X | | | | | | | | | | | | | |
| 2 | E-08 | 6/16/2021 | 3:15 PM | Soil | 1 | | | | | | | | X | X | | | | | | | | | | | | | |
| 3 | E-11 | 6/17/2021 | 8:35 AM | Soil | 1 | | | | | | | | X | X | | | | | | | | | | | | | |
| 4 | E-22 | 6/17/2021 | 9:15 AM | Soil | 1 | | | | | | | | X | X | | | | | | | | | | | | | |
| 5 | E-31 | 6/16/2021 | 2:15 PM | Soil | 2 | | | | | | | | X | X | X | X | X | X | | | | | | | | | |
| 6 | E-33 | 6/17/2021 | 8:55 AM | Soil | 1 | | | | | | | | X | X | | | | | | | | | | | | | |
| 7 | E-35 | 6/17/2021 | 9:15 AM | Soil | 4 | | | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | | | |
| 8 | E-40 | 6/17/2021 | 10:05 AM | Soil | 1 | | | | | | | | X | X | | | | | | | | | | | | | |
| 9 | E-45 | 6/16/2021 | 1:30 PM | Soil | 3 | | | | | | | | X | X | X | X | X | | | | | | | | | | |
| 10 | E-46 | 6/17/2021 | 9:30 AM | Soil | 1 | | | | | | | | X | X | | | | | | | | | | | | | |
| RELINQUISHED BY: (Signature/Print) | | DATE: (YYYY/MM/DD) | TIME: (HH:MM) | RECEIVED BY: (Signature/Print) | | DATE: (YYYY/MM/DD) | TIME: (HH:MM) | BV LABS JOB # | | | | | | | | | | | | | | | | | | | |
| Emma Riard | | 2021/06/22 | 4:30pm | Matt Grace | | | | CIH4101 CIK3115 | | | | | | | | | | | | | | | | | | | |

Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to BV Labs standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms which are available for viewing at www.bvlabs.com

White: Maxxam

Pink: Client



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CHAIN OF CUSTODY RECORD

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Page 6 OF 7

| Invoice Information | | Report Information (if differs from invoice) | | | | Project Information (where applicable) | | | | Turnaround Time (TAT) Required | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--------|--|----------------------|------------------------------------|---------------------------|--|-------------------------|---|--|--|----------------------------|---------------|------------|-----------------------------------|---------------|------------------------|------------------------|-----------------------------------|-----------------------------------|-----------------------|----------|------------------------------------|--|---|--------------------------|-------------|----------------------------|---------|------------|---------------|--------------|------------------------|------------|-----------------------------------|-----------------------|----------|
| Company Name: <u>GHD Limited</u> | | Company Name: <u>GHD Limited</u> | | | | Quotation #: <u>Anacanda Rates</u> | | | | <input checked="" type="checkbox"/> Regular TAT (5 business days) Most analyses PLEASE PROVIDE ADVANCE NOTICE FOR RUSH PROJECTS IF RUSH please specify date (Surcharges will be applied) DATE REQUIRED: | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Contact Name: <u>Accounts Payable - 762</u> | | Contact Name: <u>Glen Merkley</u> | | | | Purchase Order #: <u>to follow</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Address: <u>120 Western Parkway</u> <u>Bedford, NS</u> PC: <u>B4B 0V2</u> | | Address: <u>120 Western Parkway</u> <u>Bedford, NS</u> PC: <u>B4B 0V2</u> | | | | Project #: <u>11222385</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Phone: <u>(902)468-1248 / Fax: (902)468-2207</u> | | Phone: <u>(902) 802-4790</u> | | | | Site Location: <u>Goldboro</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Email: <u>invoicing-canada@ghd.com</u> | | Email: <u>glen.merkley@ghd.com</u> | | | | Site Province: <u>Nova Scotia</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Report Copies: _____ | | Report Copies: _____ | | | | Site #: _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Reported By: _____ | | Reported By: _____ | | | | Sampled By: <u>JV / JR / DB / ER</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Laboratory Use Only | | | | Analysis Requested | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CUSTODY SEAL | | COOLER TEMPERATURES | | COOLER TEMPERATURES | | FIELD FILTERED & PRESERVED | LAB FILTRATION REQUIRED | RCAP-MS (Total Metals) Well / Surface water | RCAP-NS (Dissolved Metals) Ground waters | Metals (Water) | | Metals (Soil) | | Regulatory Requirements (Specify) | | | | | | | | | | | | | | | | | | | | | | |
| Present | Intact | | | | | | | | | Total Dissolved Solids (TDS) | Total Organic Carbon (TOC) | Mercury | Grain Size | | Total Sulphur | Total Carbon | Total Inorganic Carbon | Sulphate S | Modified Neutralization Potential | HOLD - DO NOT ANALYZE | COMMENTS | | | | | | | | | | | | | | | |
| | | 7, 8, 8 | | 8, 8, 7 | | | | | | | | | | | | | | | | | | Mercury (CIRCLE) TOTAL / DISSOLVED | Metals & Mercury (Digestion Acid Extractable) (Available) Digest | Hot Water Soluble Boron (Required for CCME Agricultural/Landfill) | General Chemistry (Soil) | TCDF (Soil) | Total Organic Carbon (TOC) | Mercury | Grain Size | Total Sulphur | Total Carbon | Total Inorganic Carbon | Sulphate S | Modified Neutralization Potential | HOLD - DO NOT ANALYZE | COMMENTS |
| | | 6, 7, 7 | | 6, 7, 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SAMPLES MUST BE KEPT COOL (< 10 °C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SAMPLE IDENTIFICATION | | DATE SAMPLED (YYYY/MM/DD) | TIME SAMPLED (HH:MM) | MATRIX | # OF CONTAINERS SUBMITTED | FIELD FILTERED & PRESERVED | LAB FILTRATION REQUIRED | RCAP-MS (Total Metals) Well / Surface water | RCAP-NS (Dissolved Metals) Ground waters | Total Dissolved Solids (TDS) | Total Organic Carbon (TOC) | Mercury | Grain Size | Total Sulphur | Total Carbon | Total Inorganic Carbon | Sulphate S | Modified Neutralization Potential | HOLD - DO NOT ANALYZE | COMMENTS | | | | | | | | | | | | | | | | |
| 1 | E-47 | 6/17/2021 | 10:20 AM | Soil | 1 | | | | | | | X | X | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | E-55 | 6/17/2021 | 11:00 AM | Soil | 1 | | | | | | | X | X | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | E-56 | 6/17/2021 | 9:45 AM | Soil | 1 | | | | | | | X | X | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | E-62 | 6/17/2021 | 10:20 AM | Soil | 1 | | | | | | | X | X | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | E-68 | 6/16/2021 | 8:45 AM | Soil | 1 | | | | | | | X | X | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | E-74 | 6/16/2021 | 8:55 AM | Soil | 1 | | | | | | | X | X | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | DUP-A | 6/14/2021 | -- | Soil | 1 | | | | | | | X | X | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | DUP-B | 6/15/2021 | -- | Soil | 1 | | | | | | | X | X | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | DUP-C | 6/16/2021 | -- | Soil | 1 | | | | | | | X | X | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | DUP-D | 6/16/2021 | -- | Soil | 1 | | | | | | | X | X | | | | | | | | | | | | | | | | | | | | | | | |
| RELINQUISHED BY: (Signature/Print) | | DATE: (YYYY/MM/DD) | TIME: (HH:MM) | RECEIVED BY: (Signature/Print) | | DATE: (YYYY/MM/DD) | TIME: (HH:MM) | BV LABS JOB # | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>Emma Rivard</u> | | <u>2021/06/22</u> | <u>4:30pm</u> | <u>[Signature]</u> <u>MATTORCE</u> | | | | <u>CIH4101</u> <u>CIK3115</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to BV Labs standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms which are available for viewing at www.bvlabs.com | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

White: Maxxam

Pink: Client



200 Bluewater Road, Suite 105, Bedford, Nova Scotia B4B 1G9 Tel: 902-426-0203 Fax: 902-420-8612 Toll Free: 1-800-565-7227
 49-55 Elizabeth Avenue, St John's, NL A1A 1W9 Tel: 709-754-0203 Fax: 709-754-8612 Toll Free: 1-800-492-7227
 465 George Street, Unit G, Sydney, NS B1P 1K5 Tel: 902-567-1255 Fax: 902-539-6504 Toll Free: 1-888-535-7770

ATL FCD 00149 / 25

www.bvlabs.com E-mail: customerservice@bedford.bvlabs.com

CHAIN OF CUSTODY RECORD COC #:

Page 7 OF 7

| | | | | | | | |
|--|--|--|--|---|--|--|--|
| Invoice Information Company Name: GHD Limited Contact Name: Accounts Payable - 762 Address: 120 Western Parkway, Bedford, NS PC: B4B 0V2 Phone: (902)468-1248 / Fax: (902)468-2207 Email: invoicing-canada@ghd.com Report Copies: | | Report Information (if differs from invoice) Company Name: GHD Limited Contact Name: Glen Merkle Address: 120 Western Parkway, Bedford, NS PC: B4B 0V2 Phone: (902) 802-4790 Email: glen.merkley@ghd.com Report Copies: | | Project Information (where applicable) Quotation #: Anaconda Rates Purchase Order #: To follow Project #: 11222385 Site Location: Goldboro Site Province: Nova Scotia Site #: Sampled By: IV / IR / DB / ER | | Turnaround Time (TAT) Required <input checked="" type="checkbox"/> Regular TAT (5 business days) Most analyses PLEASE PROVIDE ADVANCE NOTICE FOR RUSH PROJECTS IF RUSH please specify date (Surcharges will be applied). DATE REQUIRED: | |
|--|--|--|--|---|--|--|--|

| Laboratory Use Only | | | | | Analysis Requested | | | | | | | | | | | | | | | Regulatory Requirements (Specify) | | | | | |
|---|--------|---------------------------|----------------------|---------------------|---------------------------|-------------------------|---|--|------------------------------------|--|----|---------------|----|----|----------------------------|----------------|------------|---------------|--------------|-----------------------------------|------------------------|------------|------------------------------------|----------------------|----|
| CUSTODY SEAL | | COOLER TEMPERATURES | | COOLER TEMPERATURES | FIELD FILTRATION REQUIRED | LAB FILTRATION REQUIRED | ICAP-MS (Total Metals) Well / Surface water | ICAP-MS (Dissolved Metals) Ground waters | Metals (Water) | | | Metals (Soil) | | | Total Organic Carbon (TOC) | Methyl Mercury | Grain Size | Total Sulphur | Total Carbon | | Total Inorganic Carbon | Sulphate S | Nitrified Neutralization Potential | HOLD- DO NOT ANALYZE | |
| Present | Intact | | | | | | | | Mercury (CIRCLE) TOTAL / DISSOLVED | Lead & Mercury (Default Acid Extractable (Available) Digest) | As | Cd | Cu | Cr | | | | | | Pb | | | | | Zn |
| | | 7, 8, 8 | | | | | | | | | | | | | | | | | | | | | | | |
| | | 8, 8, 7 | | | | | | | | | | | | | | | | | | | | | | | |
| | | 6, 7, 9 | | | | | | | | | | | | | | | | | | | | | | | |
| COOLING MEDIA PRESENT Y / N SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS | | | | | | | | | | | | | | | | | | | | | | | | | |
| SAMPLE IDENTIFICATION | | DATE SAMPLED (YYYY/MM/DD) | TIME SAMPLED (HH:MM) | MATRIX | | | | | | | | | | | | | | | | | | | | | |
| 1 | DUP-E | 6/16/2021 | -- | Soil | 1 | | | | | | | | | | | | | | | | | | | | |
| 2 | DUP-F | 6/17/2021 | -- | Soil | 1 | | | | | | | | | | | | | | | | | | | | |
| 3 | DUP-T | 6/15/2021 | -- | Soil | 2 | | | | | | | | | X | X | X | X | X | X | X | X | X | X | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | |
|------------------------------------|--------------------|---------------|--------------------------------|--------------------|---------------|--------------------|
| RELINQUISHED BY: (Signature/Print) | DATE: (YYYY/MM/DD) | TIME: (HH:MM) | RECEIVED BY: (Signature/Print) | DATE: (YYYY/MM/DD) | TIME: (HH:MM) | BV LABS JOB # |
| Emma Rivard | 06/16/2021 | 4:30pm | M. GRACE | | | C1H4101 C1K3115 |

Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to BV Labs standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms which are available for viewing at www.bvlabs.com


White: Maxxam

Pink: Client

ICP - 34 Certificate

Client: Anaconda Mining Inc.
 Geologist: Alana Haysom
 Project: 2-500100-D175
 Sample: Soil



Signed by: 

DskFile: 595-2127112 - ICP

Results apply to samples as submitted.

DateIn: September 1, 2021
 DateOut: October 5, 2021

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 | 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 | <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 | 1.6 | 7.34 | 8 | 431 | 2.5 | 22 | 0.47 | <0.5 | 82 | 24 | 74 | 4233 | 6.44 | <2 | 2.54 | 41 | 1.68 | 958 | <1 | 0.31 | 35 | 0.06 | 81 | 0.69 | <3 | <10 | 14 | 42 | 0.42 | 3 | 94 | <10 | 342 | 115 |
| ANX-A1a | <0.2 | 6.21 | >1000 | 516 | 3.3 | <2 | 0.61 | 7.0 | 157 | 11 | 172 | 25 | 3.69 | <2 | 2.13 | 75 | 0.61 | 1312 | 3 | 0.60 | 98 | 0.07 | 37 | 0.19 | <3 | <10 | <10 | 110 | 0.30 | 3 | 64 | <10 | 89 | 84 |
| ANX-A1b | <0.2 | 5.62 | 639 | 430 | 3.2 | <2 | 0.45 | 0.7 | 112 | 5 | 43 | 24 | 2.08 | <2 | 1.81 | 58 | 0.51 | 703 | 1 | 0.52 | 14 | 0.13 | 34 | 0.24 | <3 | <10 | <10 | 90 | 0.28 | <2 | 53 | <10 | 60 | 72 |
| ANX-A2a | <0.2 | 6.78 | >1000 | 576 | 3.5 | <2 | 0.43 | 0.7 | 154 | 8 | 43 | 22 | 2.87 | <2 | 2.40 | 78 | 0.75 | 1014 | 1 | 0.46 | 17 | 0.08 | 32 | 0.27 | <3 | <10 | <10 | 90 | 0.31 | <2 | 71 | <10 | 85 | 86 |
| ANX-A2b | <0.2 | 6.76 | >1000 | 568 | 3.6 | <2 | 0.46 | 1.2 | 164 | 8 | 138 | 26 | 3.00 | <2 | 2.43 | 84 | 0.71 | 1099 | 1 | 0.47 | 21 | 0.08 | 31 | 0.30 | 5 | <10 | <10 | 89 | 0.29 | 2 | 68 | <10 | 93 | 86 |
| ANX-A3a | <0.2 | 7.96 | 317 | 711 | 3.7 | <2 | 0.45 | 1.0 | 178 | 3 | 47 | 15 | 2.20 | <2 | 3.01 | 91 | 0.79 | 486 | 1 | 0.52 | 12 | 0.07 | 29 | 0.18 | 4 | <10 | <10 | 99 | 0.34 | <2 | 84 | <10 | 65 | 103 |
| ANX-A3b | <0.2 | 6.68 | 281 | 577 | 3.2 | <2 | 0.41 | 0.9 | 146 | 4 | 38 | 17 | 1.89 | <2 | 2.48 | 75 | 0.66 | 462 | 1 | 0.45 | 11 | 0.07 | 27 | 0.27 | <3 | <10 | <10 | 85 | 0.29 | <2 | 68 | <10 | 64 | 85 |
| ANX-A4a | <0.2 | 6.24 | 913 | 518 | 2.9 | <2 | 0.57 | 1.7 | 107 | 5 | 34 | 22 | 1.78 | <2 | 2.19 | 59 | 0.55 | 939 | 2 | 0.41 | 13 | 0.08 | 31 | 0.40 | <3 | <10 | <10 | 86 | 0.26 | <2 | 61 | <10 | 47 | 75 |
| ANX-A4b | <0.2 | 5.35 | 598 | 418 | 2.6 | <2 | 0.49 | 1.4 | 81 | 4 | 41 | 18 | 1.35 | <2 | 1.70 | 47 | 0.41 | 733 | 1 | 0.45 | 14 | 0.09 | 21 | 0.41 | <3 | <10 | <10 | 83 | 0.25 | <2 | 50 | <10 | 39 | 65 |
| ANX-A4b DUP | <0.2 | 4.95 | 387 | 386 | 2.3 | <2 | 0.44 | 0.8 | 75 | 3 | 43 | 16 | 1.33 | <2 | 1.51 | 43 | 0.38 | 691 | 1 | 0.41 | 9 | 0.08 | 26 | 0.40 | <3 | <10 | <10 | 76 | 0.23 | <2 | 47 | <10 | 37 | 61 |
| ANX-A5a | 0.2 | 2.55 | 475 | 154 | 1.6 | <2 | 0.39 | <0.5 | 64 | 6 | 17 | 17 | 1.52 | <2 | 0.43 | 40 | 0.11 | 858 | 1 | 0.23 | 12 | 0.11 | 20 | 0.58 | <3 | <10 | <10 | 58 | 0.13 | <2 | 21 | <10 | 36 | 29 |
| ANX-A5b | 0.4 | 2.91 | 699 | 194 | 1.5 | <2 | 0.47 | 1.6 | 70 | 4 | 22 | 11 | 1.80 | <2 | 0.58 | 40 | 0.13 | 1198 | 1 | 0.30 | 8 | 0.11 | 21 | 0.42 | <3 | <10 | <10 | 74 | 0.17 | 2 | 27 | <10 | 42 | 38 |
| ANX-A6a | <0.2 | 3.21 | 385 | 225 | 1.7 | <2 | 0.61 | 0.6 | 76 | 4 | 29 | 13 | 1.27 | <2 | 0.72 | 42 | 0.16 | 1428 | 2 | 0.30 | 11 | 0.13 | 18 | 0.50 | <3 | <10 | <10 | 83 | 0.19 | <2 | 29 | <10 | 24 | 46 |
| ANX-A6b | 0.2 | 3.58 | >1000 | 278 | 2.3 | <2 | 0.77 | 0.8 | 238 | 9 | 35 | 25 | 3.31 | <2 | 0.96 | 112 | 0.22 | 3118 | 2 | 0.30 | 16 | 0.09 | 48 | 0.54 | <3 | <10 | <10 | 102 | 0.18 | <2 | 41 | <10 | 81 | 53 |
| ANX-A7a | <0.2 | 3.37 | 492 | 287 | 1.8 | <2 | 0.92 | 0.5 | 83 | 5 | 35 | 13 | 1.49 | <2 | 0.97 | 43 | 0.25 | 1586 | 1 | 0.29 | 13 | 0.07 | 18 | 0.57 | <3 | <10 | <10 | 111 | 0.17 | <2 | 35 | <10 | 51 | 46 |
| ANX-A7b | 0.3 | 6.22 | >1000 | 527 | 4.2 | <2 | 0.88 | 2.3 | 290 | 25 | 63 | 48 | 3.19 | <2 | 2.15 | 133 | 0.60 | 1780 | 2 | 0.29 | 44 | 0.08 | 79 | 0.60 | <3 | <10 | <10 | 107 | 0.22 | <2 | 71 | <10 | 305 | 68 |
| ANX-A8a | <0.2 | 9.35 | 582 | 1082 | 6.1 | <2 | 0.27 | 0.8 | 306 | 5 | 61 | 18 | 2.74 | <2 | 5.00 | 155 | 1.25 | 459 | 1 | 0.39 | 18 | 0.04 | 31 | 0.12 | <3 | <10 | <10 | 73 | 0.38 | <2 | 125 | <10 | 81 | 115 |
| ANX-A8a DUP | <0.2 | 11.15 | 504 | 1127 | 6.1 | <2 | 0.28 | 1.4 | 337 | 6 | 55 | 19 | 2.97 | <2 | 5.04 | 168 | 1.34 | 510 | <1 | 0.38 | 18 | 0.05 | 33 | 0.14 | 5 | <10 | <10 | 79 | 0.40 | <2 | 132 | <10 | 88 | 121 |
| ANX-A9a | 0.3 | 4.74 | >1000 | 379 | 2.8 | <2 | 0.41 | 3.9 | 140 | 12 | 34 | 22 | 3.60 | <2 | 1.47 | 72 | 0.44 | 1601 | 1 | 0.22 | 17 | 0.10 | 31 | 0.40 | <3 | <10 | <10 | 67 | 0.19 | 2 | 49 | <10 | 97 | 50 |
| ANX-A9b | <0.2 | 3.96 | >1000 | 307 | 2.7 | <2 | 0.50 | 1.1 | 172 | 11 | 26 | 28 | 3.57 | <2 | 1.13 | 87 | 0.34 | 1216 | 1 | 0.28 | 22 | 0.08 | 39 | 0.46 | <3 | <10 | <10 | 75 | 0.16 | 2 | 43 | <10 | 116 | 47 |
| ANX-D2a | <0.2 | 6.09 | >1000 | 489 | 2.8 | <2 | 0.56 | 5.6 | 49 | 7 | 33 | 14 | 3.80 | <2 | 2.49 | 25 | 1.00 | 587 | <1 | 0.73 | 23 | 0.05 | 28 | 0.19 | 5 | <10 | <10 | 149 | 0.35 | 4 | 58 | <10 | 99 | 66 |
| ANX-D2b | <0.2 | 6.23 | >1000 | 500 | 3.0 | <2 | 0.57 | 4.9 | 54 | 7 | 30 | 16 | 3.74 | <2 | 2.62 | 28 | 1.09 | 595 | <1 | 0.76 | 23 | 0.05 | 28 | 0.15 | 5 | <10 | <10 | 152 | 0.33 | 3 | 59 | <10 | 111 | 62 |
| ANX-D3a | 0.4 | 6.05 | >1000 | 491 | 2.6 | <2 | 0.49 | 18.9 | 53 | 9 | 43 | 50 | 4.87 | <2 | 2.46 | 27 | 0.99 | 551 | <1 | 0.72 | 26 | 0.06 | 125 | 0.30 | 20 | <10 | <10 | 134 | 0.34 | 5 | 62 | <10 | 98 | 71 |
| ANX-D4a | 0.6 | 5.92 | >1000 | 511 | 2.7 | <2 | 0.51 | 16.8 | 53 | 12 | 75 | 45 | 4.89 | <2 | 2.49 | 28 | 0.90 | 555 | 2 | 0.67 | 31 | 0.06 | 153 | 0.47 | 25 | <10 | <10 | 131 | 0.37 | 4 | 61 | <10 | 115 | 72 |
| ANX-D5a | 0.3 | 5.98 | >1000 | 518 | 3.0 | <2 | 0.50 | 16.1 | 47 | 7 | 49 | 26 | 3.70 | <2 | 2.54 | 24 | 0.79 | 492 | 1 | 0.70 | 22 | 0.05 | 91 | 0.18 | 14 | <10 | <10 | 134 | 0.37 | 3 | 58 | <10 | 78 | 69 |
| ANX-D6a | 0.2 | 4.33 | 688 | 326 | 2.0 | <2 | 0.35 | 0.6 | 38 | 2 | 152 | 16 | 2.26 | <2 | 1.29 | 20 | 0.50 | 330 | 1 | 0.50 | 16 | 0.05 | 50 | 0.18 | <3 | <10 | <10 | 94 | 0.26 | 2 | 45 | <10 | 35 | 51 |
| ANX-D1A | 0.2 | 4.86 | >1000 | 409 | 2.3 | <2 | 0.40 | 10.4 | 40 | 11 | 43 | 26 | 3.74 | <2 | 2.11 | 21 | 0.97 | 475 | <1 | 0.50 | 33 | 0.05 | 44 | 0.57 | 7 | <10 | <10 | 113 | 0.29 | 3 | 51 | <10 | 87 | 56 |
| ANX-D7a | <0.2 | 5.93 | >1000 | 498 | 2.9 | <2 | 0.63 | 7.3 | 43 | 5 | 53 | 34 | 3.54 | <2 | 2.37 | 23 | 0.87 | 602 | <1 | 0.72 | 22 | 0.07 | 37 | 0.12 | 18 | <10 | <10 | 172 | 0.38 | 4 | 56 | <10 | 151 | 69 |
| ANX-D7b | <0.2 | 4.94 | >1000 | 423 | 2.5 | <2 | 0.69 | 28.4 | 38 | 5 | 43 | 33 | 5.95 | <2 | 1.91 | 21 | 0.72 | 650 | <1 | 0.60 | 17 | 0.08 | 33 | 0.07 | 22 | <10 | <10 | 213 | 0.34 | 5 | 50 | <10 | 163 | 60 |
| ANX-D8a | 0.2 | 10.07 | >1000 | 968 | 3.6 | <2 | 0.55 | 4.3 | 59 | 4 | 61 | 17 | 4.30 | <2 | 4.36 | 30 | 1.48 | 672 | 1 | 0.58 | 18 | 0.07 | 28 | 0.02 | 11 | <10 | <10 | 132 | 0.38 | 4 | 109 | <10 | 81 | 111 |



Your P.O. #: PENDING
 Your Project #: GOLDBORO
 Your C.O.C. #: N/A

Attention: Derek Bullock

Anaconda Mining Inc
 Goldboro Gold Mine
 570 Goldbrook Road
 Goldboro, NS
 Canada BOH 1L0

Report Date: 2021/09/27
 Report #: R6829332
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1R4583

Received: 2021/09/23, 09:20

Sample Matrix: Soil
 # Samples Received: 15

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|--------------------------------|-----------------|---------------------------|--------------------------|--------------------------|--------------------------|
| Metals Solids Acid Extr. ICPMS | 15 | 2021/09/27 | 2021/09/27 | ATL SOP 00058 | EPA 6020B R2 m |

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested. This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.



Your P.O. #: PENDING
Your Project #: GOLDBORO
Your C.O.C. #: N/A

Attention: Derek Bullock

Anaconda Mining Inc
Goldboro Gold Mine
570 Goldbrook Road
Goldboro, NS
Canada BOH 1L0

Report Date: 2021/09/27
Report #: R6829332
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1R4583
Received: 2021/09/23, 09:20

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Maryann Comeau, Customer Experience Supervisor/PM

Email: Maryann.COMEAU@bureauveritas.com

Phone# (902)420-0203 Ext:298

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VERITAS

BV Labs Job #: C1R4583
Report Date: 2021/09/27

Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: PENDING

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

| | | | | | | | | | | |
|----------------------|--------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|------------|-----------------|
| BV Labs ID | | QSR126 | QSR127 | QSR128 | QSR129 | QSR130 | QSR131 | QSR132 | | |
| Sampling Date | | 2021/09/22 07:55 | 2021/09/22 07:57 | 2021/09/22 08:01 | 2021/09/22 08:03 | 2021/09/22 08:07 | 2021/09/22 08:08 | 2021/09/22 08:13 | | |
| COC Number | | N/A | N/A | N/A | N/A | N/A | N/A | N/A | | |
| | UNITS | ANX-A1A-M | ANX-A1B-M | ANX-A2A-M | ANX-A2B-M | ANX-A3A-M | ANX-A3B-M | ANX-A4A-M | RDL | QC Batch |

| | | | | | | | | | | |
|--|-------|-----|-----|-----|-----|-----|-----|-----|------|---------|
| Metals | | | | | | | | | | |
| Acid Extractable Mercury (Hg) | mg/kg | 1.6 | 1.6 | 1.8 | 1.1 | 2.4 | 1.4 | 2.1 | 0.10 | 7601659 |
| RDL = Reportable Detection Limit QC Batch = Quality Control Batch | | | | | | | | | | |

| | | | | | | | | | | |
|----------------------|--------------|---------------------|---------------------|-----------------|---------------------|---------------------|---------------------|---------------------|------------|-----------------|
| BV Labs ID | | QSR133 | QSR134 | | QSR135 | QSR136 | QSR137 | QSR138 | | |
| Sampling Date | | 2021/09/22 08:15 | 2021/09/22 08:33 | | 2021/09/22 08:35 | 2021/09/22 08:40 | 2021/09/22 08:42 | 2021/09/22 08:50 | | |
| COC Number | | N/A | N/A | | N/A | N/A | N/A | N/A | | |
| | UNITS | ANX-A4B-M | ANX-A5A-M | QC Batch | ANX-A5B-M | ANX-A6A-M | ANX-A6B-M | ANX-A7A-M | RDL | QC Batch |

| | | | | | | | | | | |
|--|-------|------|------|---------|------|------|------|-----|------|---------|
| Metals | | | | | | | | | | |
| Acid Extractable Mercury (Hg) | mg/kg | 0.98 | 0.46 | 7601659 | 0.33 | 0.53 | 0.55 | 1.3 | 0.10 | 7601615 |
| RDL = Reportable Detection Limit QC Batch = Quality Control Batch | | | | | | | | | | |

| | | | | | |
|--|--------------|---------------------|---------------------|------------|-----------------|
| BV Labs ID | | QSR139 | QSR140 | | |
| Sampling Date | | 2021/09/22 08:54 | 2021/09/22 08:57 | | |
| COC Number | | N/A | N/A | | |
| | UNITS | ANX-A7B-M | ANX-A8A-M | RDL | QC Batch |
| Metals | | | | | |
| Acid Extractable Mercury (Hg) | mg/kg | 1.2 | 4.3 | 0.10 | 7601615 |
| RDL = Reportable Detection Limit QC Batch = Quality Control Batch | | | | | |



BUREAU
VERITAS

BV Labs Job #: C1R4583
Report Date: 2021/09/27

Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: PENDING

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

| | |
|-----------|-------|
| Package 1 | 9.7°C |
|-----------|-------|

Results relate only to the items tested.



BUREAU

VERITAS

BV Labs Job #: C1R4583
Report Date: 2021/09/27

Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: PENDING

QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|-------------|------|--------------------------|-------------------------------|---------------|-------|----------|-------|-----------|
| 7601615 | BAN | Matrix Spike | Acid Extractable Mercury (Hg) | 2021/09/27 | | 101 | % | 75 - 125 |
| 7601615 | BAN | Spiked Blank | Acid Extractable Mercury (Hg) | 2021/09/27 | | 97 | % | 75 - 125 |
| 7601615 | BAN | Method Blank | Acid Extractable Mercury (Hg) | 2021/09/27 | <0.10 | | mg/kg | |
| 7601615 | BAN | RPD | Acid Extractable Mercury (Hg) | 2021/09/27 | 1.4 | | % | 35 |
| 7601659 | BAN | Matrix Spike [QSR129-01] | Acid Extractable Mercury (Hg) | 2021/09/27 | | 100 | % | 75 - 125 |
| 7601659 | BAN | Spiked Blank | Acid Extractable Mercury (Hg) | 2021/09/27 | | 99 | % | 75 - 125 |
| 7601659 | BAN | Method Blank | Acid Extractable Mercury (Hg) | 2021/09/27 | <0.10 | | mg/kg | |
| 7601659 | BAN | RPD [QSR129-01] | Acid Extractable Mercury (Hg) | 2021/09/27 | 6.2 | | % | 35 |

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



BV Labs Job #: C1R4583
Report Date: 2021/09/27

Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: PENDING

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

A handwritten signature in black ink that reads 'Mike MacGillivray'.

Mike MacGillivray, Scientific Specialist (Inorganics)

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Your P.O. #: PENDING
 Your Project #: GOLDBORO
 Your C.O.C. #: N/A

Attention: Derek Bullock

Anaconda Mining Inc
 Goldboro Gold Mine
 570 Goldbrook Road
 Goldboro, NS
 Canada BOH 1L0

Report Date: 2021/09/27
 Report #: R6829323
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1R4587

Received: 2021/09/23, 09:20

Sample Matrix: Soil
 # Samples Received: 12

| Analyses | Quantity | Date | Date | Laboratory Method | Analytical Method |
|--------------------------------|----------|------------|------------|-------------------|-------------------|
| | | Extracted | Analyzed | | |
| Metals Solids Acid Extr. ICPMS | 12 | 2021/09/27 | 2021/09/27 | ATL SOP 00058 | EPA 6020B R2 m |

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

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Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.



Your P.O. #: PENDING
Your Project #: GOLDBORO
Your C.O.C. #: N/A

Attention: Derek Bullock

Anaconda Mining Inc
Goldboro Gold Mine
570 Goldbrook Road
Goldboro, NS
Canada BOH 1L0

Report Date: 2021/09/27
Report #: R6829323
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1R4587
Received: 2021/09/23, 09:20

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Maryann Comeau, Customer Experience Supervisor/PM
Email: Maryann.COMEAU@bureauveritas.com
Phone# (902)420-0203 Ext:298

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VERITAS

BV Labs Job #: C1R4587
Report Date: 2021/09/27

Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: PENDING

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

| | | | | | | | | | | |
|----------------------|--------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|------------|-----------------|
| BV Labs ID | | QSR152 | QSR153 | QSR154 | QSR155 | QSR156 | QSR157 | QSR158 | | |
| Sampling Date | | 2021/09/22 09:06 | 2021/09/22 09:08 | 2021/09/22 09:36 | 2021/09/22 10:05 | 2021/09/22 10:08 | 2021/09/22 10:11 | 2021/09/22 10:14 | | |
| COC Number | | N/A | N/A | N/A | N/A | N/A | N/A | N/A | | |
| | UNITS | ANX-A9A-M | ANX-A9B-M | ANX-D1A-M | ANX-D2A-M | ANX-D2B-M | ANX-D3A-M | ANX-D4A-M | RDL | QC Batch |

| | | | | | | | | | | |
|----------------------------------|-------|-----|-----|-----|-----|-----|-----|----|------|---------|
| Metals | | | | | | | | | | |
| Acid Extractable Mercury (Hg) | mg/kg | 1.1 | 1.5 | 2.8 | 5.2 | 1.8 | 9.0 | 12 | 0.10 | 7601615 |
| RDL = Reportable Detection Limit | | | | | | | | | | |
| QC Batch = Quality Control Batch | | | | | | | | | | |

| | | | | | | | | |
|----------------------|--------------|---------------------|---------------------|---------------------|---------------------|---------------------|------------|-----------------|
| BV Labs ID | | QSR159 | QSR160 | QSR161 | QSR162 | QSR163 | | |
| Sampling Date | | 2021/09/22 10:16 | 2021/09/22 09:40 | 2021/09/22 09:48 | 2021/09/22 09:52 | 2021/09/22 09:55 | | |
| COC Number | | N/A | N/A | N/A | N/A | N/A | | |
| | UNITS | ANX-D5A-M | ANX-D6A-M | ANX-D7A-M | ANX-D7B-M | ANX-D8A-M | RDL | QC Batch |

| | | | | | | | | |
|----------------------------------|-------|----|-----|-----|-----|-----|------|---------|
| Metals | | | | | | | | |
| Acid Extractable Mercury (Hg) | mg/kg | 13 | 8.1 | 8.0 | 8.6 | 3.3 | 0.10 | 7601615 |
| RDL = Reportable Detection Limit | | | | | | | | |
| QC Batch = Quality Control Batch | | | | | | | | |



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BV Labs Job #: C1R4587
Report Date: 2021/09/27

Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: PENDING

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

| | |
|-----------|-------|
| Package 1 | 9.7°C |
|-----------|-------|

Results relate only to the items tested.



BV Labs Job #: C1R4587
 Report Date: 2021/09/27

Anaconda Mining Inc
 Client Project #: GOLDBORO
 Your P.O. #: PENDING

QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|-------------|------|--------------------------|-------------------------------|---------------|-------|----------|-------|-----------|
| 7601615 | BAN | Matrix Spike [QSR163-01] | Acid Extractable Mercury (Hg) | 2021/09/27 | | 101 | % | 75 - 125 |
| 7601615 | BAN | Spiked Blank | Acid Extractable Mercury (Hg) | 2021/09/27 | | 97 | % | 75 - 125 |
| 7601615 | BAN | Method Blank | Acid Extractable Mercury (Hg) | 2021/09/27 | <0.10 | | mg/kg | |
| 7601615 | BAN | RPD [QSR163-01] | Acid Extractable Mercury (Hg) | 2021/09/27 | 1.4 | | % | 35 |

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



BV Labs Job #: C1R4587
Report Date: 2021/09/27

Anaconda Mining Inc
Client Project #: GOLDBORO
Your P.O. #: PENDING

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

A handwritten signature in black ink that reads 'Colleen Acker'.

Colleen Acker, B.Sc, Scientific Service Specialist

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Appendix F

Delineation Point Data

| Delineation Point | Coordinates (NAD83 UTM 20N) | | Samples Collected | Depth to Sample (m) | Depth of Hole (m) | Stratigraphy (m) | Suspected Tailings |
|-------------------|-----------------------------|---------|--|---------------------|-------------------|---|--------------------|
| | X | Y | | | | | |
| A-01 | 606628 | 5006299 | None | - | 0.35 | 0 - 0.1: organics, moss. 0.1 - 0.35: brown silty sand, moist, native. | N |
| A-02 | 606627 | 5006308 | None | - | 0.55 | 0.10: organic brown silty sand, moist organic odour, trace gravel | N |
| A-03 | 606627 | 5006322 | None | - | 0.4 | 0.15: organics, brown silty sand, trace gravel, dry to moist | N |
| A-04 | 606633 | 5006280 | None | - | 0.35 | 0 - 0.06: organics/moss. 0.06 - 0.35: sandy silt with trace cobbles, moist to wet, native. | N |
| A-05 | 606630 | 5006263 | Metals, General Chemistry | 0.15 - 0.25 | 0.25 | 0.0 - 0.7: organic. 0.07 - 0.25: native, silty sand loose, brown moist to wet, organics. 0.23 - 0.25: silty sand, native, moist to wet. | N |
| A-06 | 606640 | 5006295 | None | - | 0.45 | 0 - 0.1: organics, moss, grass and sticks. 0.1 - 0.45: dark brown with organics, wet, organic odour, native. | N |
| A-07 | 606640 | 5006280 | None | - | 0.25 | 0 - 0.05: organic / moss. 0.05 - 0.25: brown to black silty sand with organics, wet/ saturated. | N |
| A-08 | 606637 | 5006308 | Metals, General Chemistry | 0.10-0.3 | 0.3 | 0 - 0.1: organic, 0.1 - 0.3: brown silty sand, trace cobbles | N |
| A-09 | 606640 | 5006324 | None | - | 0.4 | Brown, silty sand, moist, trace cobbles/gravel. 0.05 - 0.1: topsoil/organics | N |
| A-10 | 606639 | 5006270 | None | 0.45 | 0.5 | 0.0 - 0.12: organics. 0.132 - 0.45: topsoil, brown, silty sand with organics (moss), moist. 0.45: tailings - grey sandy, moist. | Y |
| A-11 | 606649 | 5006260 | None | - | 0.7 | 0 - 0.05: moss, green. 0.05 - 0.7: brown silty sand, dense organic/root mat, saturated organic throughout. | N |
| A-12 | 606644 | 5006239 | None | 0.15 | 0.2 | 0.0 - 0.1: moss, 0.1 - 0.15: topsoil, native silty sand. 0.15: tailings, grey sandy material. | Y |
| A-13 | 606606 | 5006218 | Metals, General Chemistry | 0.10 - 0.32 | 0.32 | 0.0 - 0.10: moss. 0.1 - 0.32: brown, native silty sand, moist to wet with trace organics throughout. | N |
| A-14 | 606650 | 5006342 | Metals, General Chemistry, TCLP, TOC, Methyl Mercury, Grain Size | 0.3-0.5 | 0.5 | 0.30 - 0.5: Brown silty sand, moist, trace cobbles. 0.05 - 0.1 : Topsoil/organics, grey to black sandy material at 0.20. | N |
| A-15 | 606657 | 5006270 | None | - | 1 | Silty sand, dense grass/root mat on surface, wet. Water close to surface, brown in colour. No indication of tailings. | N |
| A-16 | 606659 | 5006258 | None | - | 1 | Brown silty sand, dense root/organic mat, native, saturated, wet. Water almost at surface. | N |
| A-17 | 606667 | 5006240 | None | - | 1 | 0.0 - 0.2: moss/root, organic. 0.20 - 1.0: brown, wet, silty sand trace organics (grass). | N |
| A-18 | 606665 | 5006221 | None | 0.16 | 0.2 | 0.0 - 0.03: organics. 0.03 - 0.16: moss, silty sand, dark brown trace organics. 0.16: grey, sandy material (tailings). | Y |

| Delineation Point | Coordinates (NAD83 UTM 20N) | | Samples Collected | Depth to Sample (m) | Depth of Hole (m) | Stratigraphy (m) | Suspected Tailings |
|-------------------|-----------------------------|---------|---|---------------------|-------------------|--|--------------------|
| | X | Y | | | | | |
| A-19 | 606642 | 5006206 | None | - | 0.35 | 0.0 - 0.05: organics. 0.05 - 0.35: brown, silty sand, moist trace cobble/gravel and more reddish brown native. | N |
| A-20 | 606668 | 5006313 | None | - | 0.7 | 0.05: organics. 0.07: Brown silty sand. 0.12: organics/sand. 0.13 - 0.7: Brown silty sand / black soft material | N |
| A-21 | 606667 | 5006327 | None | - | 0.3 | 0.0 - 0.15: organics. 0.15 - 0.3: Sand, coarse | N |
| A-22 | 606673 | 5006215 | None | - | 0.85 | 0.0 - 0.15: organics, edge of wetland. Thick root/grass material. 0.15 - 0.85: brown silty sand, with organics, saturated water at surface, standing water, wet. | N |
| A-23 | 606671 | 5006196 | None | - | 0.45 | 0.0 - 0.10: organic/moss. 0.1 - 0.45: light brown, reddish brown silty sand, moist and trace cobble. Very rocky area. | N |
| A-24 | 606689 | 5006229 | Metals, General Chemistry, TCLP, TOC, Methyl Mercury, Grain Size, Modified Acid-Base Accounting | 0.25 - 0.45 | 0.45 | Water - 15cm. 0 - 0.1: organics. 0.1 - 0.2: Tailings, grey sand. | Y |
| A-26 | 606691 | 5006309 | Metals, General Chemistry | 0.1 - 0.4 | 0.4 | 0.01: organics. 0.1-0.4: Brown silty sand | N |
| A-27 | 606687 | 5006289 | None | - | 0.9 | 0.05: organics. 0.05-0.7: Brown silty sand. 0.7-0.9: Grey Clay. Wetland area. | N |
| A-28 | 606690 | 5006193 | Metals, General Chemistry | 0.10-0.23 | 0.23 | 0.0 - 0.10: organics. 0.10 - 0.23: brown, silty sand, wet organic | N |
| A-29 | 606687 | 5006215 | None | - | 0.75 | 0.0 - 0.20: thick root/grass, organics. 0.20 - 0.75: wet, brown silty sand with thick organic root grass throughout. In wetland. | N |
| A-30 | 606701 | 5006277 | None | - | 1.1 | 0.05: organics. 0.05-1.1: Silty clay organics, loose, heavily saturated. | N |
| A-31 | 606696 | 5006298 | None | - | 0.3 | 0 - 0.05: rootmat. 0.05 - 0.30: Soft black / dark brown and organics , moist | N |
| A-32 | 606701 | 5006234 | None | - | 0.81 | Saturated heavily , dark brown /black clay/silt and organics | N |
| A-33 | 606701 | 5006281 | None | - | 0.1 | 0 - 0.1: organics | N |
| A-34 | 606703 | 5006186 | None | - | 0.2 | Rootmat throughout. Saturated tailings. | Y |
| A-35 | 606702 | 5006208 | None | - | 0.7 | 0.05: root mat. 0.05 - 0.69: Highly saturated, dark brown clayey organics mixed, loose , soft. | N |
| A-36 | 606713 | 5006121 | Metals, General Chemistry, TCLP, TOC, Methyl Mercury, Grain Size | 0.05 - 0.30 | 0.3 | Brown silty sand, trace cobbles, few gravel moist. Compacted area. | N |
| A-37 | 606719 | 5006264 | None | - | 0.2 | 0 - 0.05: Moss. 0.05 - 0.2: Brown silty sand and organics | N |

| Delineation Point | Coordinates (NAD83 UTM 20N) | | Samples Collected | Depth to Sample (m) | Depth of Hole (m) | Stratigraphy (m) | Suspected Tailings |
|-------------------|-----------------------------|---------|---------------------------|---------------------|-------------------|--|--------------------|
| | X | Y | | | | | |
| A-38 | 606720 | 5006260 | None | - | 0.15 | Rootmat/organics | N |
| A-39 | 606717 | 5006282 | None | - | 0.35 | 0.005: rootmat. 0.05 - 0.35: Brown silty sand, loose cobbles. | N |
| A-40 | 606718 | 5006205 | None | - | 0.4 | 0.05: organics. 0.05 - 0.4: Light brown sandy silt. | N |
| A-41 | 606714 | 5006217 | Metals, General Chemistry | 0.1 - 1.0 | 0 - 0.1 | Rootmat. 0.1 - 1.0: grey/orange silt, some sand , moist trace cobbles. | N |
| A-42 | 606715 | 5006233 | None | - | 0.47 | 0 - 0.10: organics. 0.1 - 0.18: grey silt and sand, dense, suspected tailings. 0.18 - 0.47: sandy silt - orange/brown. | Y |
| A-43 | 606723 | 5006100 | None | - | 0.3 | 0.0 - 0.14: organic, thick grass. 0.14 - 0.30: brown to black silty sand, organic odour, trace organics throughout. | N |
| A-44 | 606737 | 5006115 | None | - | 0.26 | brown to light . 0.0 - 0.14: brown silty sand, damp, organic moist, thick moss. | N |
| A-45 | 606729 | 5006267 | Metals, General Chemistry | 0.05-0.66 | 0.66 | 0 - 0.05: rootmat. 0.05 - 0.66: brown silty sand , trace cobbles | N |
| A-46 | 606728 | 5006256 | None | - | 0.5 | 0 - 0.05: topsoil. 0.05 - 0.13: grey silt. 0.13 - 0.5: sandy silt, black/brown | N |
| A-47 | 606736 | 5006102 | None | - | 0.22 | 0.0 - 0.05: grass/organics. 0.05 - 0.22: brown, silty sand, moist, trace cobbles, trace organics, uniform throughout. | N |
| B-01 | 606821 | 5006155 | None | - | 0.6 | 0.0 - 0.10: brown to black wet native silty sand with organic throughout. | N |
| B-02 | 606381 | 5006144 | None | - | 0.9 | 0.0 - 0.90: brown silty sand with organics throughout, damp to wet. | N |
| B-03 | 606858 | 5006126 | None | - | 0.53 | 0.0 - 0.10: organics, mainly moss and grass. 0.1 - 0.53: brown native silty sand with trace organics , wet. | N |
| B-04 | 606855 | 5006144 | Metals, General Chemistry | 0.2 - 0.5 | 0.5 | 0.02: organics. 0.2 - 0.5: silt, some sand , light brown, dense - possible tailings | Y |
| B-05 | 606858 | 5006155 | None | - | 0.63 | 0.05: moss. 0.2 - 0.63: silt (brown), organics mixed. | N |
| B-06 | 606872 | 5006072 | Metals, General Chemistry | 0.15 - 0.22 | 0.22 | 0.0 - 0.15: thick vegetation, dense root mat. 0.15 - 0.22: brown silty material, very wet and muggy, organic root/material grass throughout. | N |
| B-07 | 606872 | 5006055 | None | - | 0.5 | 0.0 - 0.05: moss/organic material , light brown. 0.05 - 0.5: brown, silty sand with trace organic throughout. | N |
| B-08 | 606860 | 5006019 | None | - | 0.25 | uniform native brown silty sand with trace organics. | N |
| B-09 | 606866 | 5006005 | None | 0.2 | 0.32 | 0 - 0.10: moss/organics. 0.10 - 0.2: brown silty sand, wet with organics throughout. 0.20 - 0.32: tailings, grey and sandy. | Y |
| B-10 | 606873 | 5006111 | None | - | 0.38 | Brown silty sand, very muddy wet. 0.0 - 0.1: grass/organic. | N |

| Delineation Point | Coordinates (NAD83 UTM 20N) | | Samples Collected | Depth to Sample (m) | Depth of Hole (m) | Stratigraphy (m) | Suspected Tailings |
|-------------------|-----------------------------|---------|---------------------------|---------------------|-------------------|--|--------------------|
| | X | Y | | | | | |
| B-11 | 606685 | 5006130 | None | - | 0.45 | 0.05 - 0.45: organic material, some silt and brown and black, saturated. | N |
| B-12 | 606880 | 5006093 | None | - | 0.4 | 0.0 - 0.10: moss/organic vegetation. 0.10 - 0.4: brown silty sand, wet native uniform in colour, texture. | N |
| B-13 | 606883 | 5006030 | Metals, General Chemistry | 0.10-0.23 | 0.23 | 0.0 - 0.10: vegetation. 0.10 - 0.23: brown silty sand | N |
| B-15 | 606889 | 5006126 | None | 0.1 | 0.2 | 0 - 0.03: Moss/organics. 0.03 - 0.1: Brown silty sand with organics. 0.1: grey sandy materials, suspected tailings. | Y |
| B-16 | 606889 | 5006144 | None | - | 0.42 | 0.05: grey clayey silt mixed with organic matter. 0.15: brown sandy silt. | N |
| B-17 | 606879 | 5006001 | None | 0.16 | 0.25 | 0 - 0.05: moss/organic. 0.05 - 0.16: brown silty sand, trace organic. 0.16: suspected tailings, grey sandy material. | Y |
| B-19 | 606895 | 5006129 | None | - | 0.66 | 0.05: grass/roots. 0.15: brown, silt, organics. 0.15 - 0.66: silt slurry, grey, saturated - suspected tailings. | Y |
| B-20 | 606898 | 5006244 | None | - | 0.58 | 0.05: organics. 0.13: Silty organics, black. 0.58: sandy silt. Light brown, no tailings | N |
| B-21 | 606897 | 5006142 | Metals, General Chemistry | 0.1 - 0.3 | 0.3 | 0.05: moss. 0.1: Brown organic silt. 0.3: mis of brown silty sand followed with grey sand | N |
| B-22 | 606983 | 5006179 | None | - | 0.37 | 0 - 0.05: Moss. 0.05 - 0.15: grey sand silt. 0.15 - 0.37: more brown. | N |
| B-23 | 606901 | 5006167 | None | - | 0.5 | 0 - 0.05: Moss. 0.1 - 0.26: Silt and organics. 0.26 - 0.5: brown silt, clay, some sand. | N |
| B-24 | 606897 | 5006213 | Metals, General Chemistry | 0.3 - 0.8 | 0.8 | 0 - 0.05: top soil. 0.05: silt and organics. 0.7 - 0.8: light brown silty sand, wet sample | N |
| B-25 | 606895 | 5006197 | None | - | 0.67 | 0 - 0.05: moss. 0.1: black organic silt. 0.1 - 0.15: light brown silty sand. 0.15 - 0.67: mix of both above. | N |
| B-26 | 606902 | 5006231 | None | - | 0.3 | 0 - 0.16: organics. 0.16 - 0.3: light brown, sandy silt, trace brown sand at bottom. No tailings | N |
| B-27 | 606901 | 5006101 | None | 0.1 | 0.15 | 0.0 - 0.03: Moss. 0.03 - 0.10: Brown silty sand, trace organics, moist. 0.1: light grey sandy material - suspected tailings. | Y |
| B-28 | 606922 | 5006003 | None | - | 0.25 | Brown to reddish sand, silty sand, trace cobble, dry to moist. | N |
| B-29 | 606924 | 5006016 | None | - | 0.12 | 0.0 - 0.03: moss/organics. 0.03 - 0.12: brown dry to moist sand with trace cobbles. Berm area between two wetlands in pathway. | N |
| B-30 | 606933 | 5005987 | None | - | 0.2 | 0 - 0.05: organics, moss. 0.05 - 0.20: Dark brown to reddish brown with organics throughout, moist to wet. | N |
| B-31 | 606928 | 5006091 | None | - | 0.35 | 0 - 0.1: Moss/organics material, loose, damp. 0.1 - 0.35: brown, reddish brown silty sand | N |

| Delineation Point | Coordinates (NAD83 UTM 20N) | | Samples Collected | Depth to Sample (m) | Depth of Hole (m) | Stratigraphy (m) | Suspected Tailings |
|-------------------|-----------------------------|---------|---|---------------------|-------------------|---|--------------------|
| | X | Y | | | | | |
| B-32 | 606915 | 5006144 | None | - | 0.12 | 0.0 - 0.12: organics. 0.12 downwards : grey silty sand - suspected tailings | Y |
| B-33 | 606923 | 5006130 | None | 0.08 | 0.18 | 0 - 0.03: Moss/organics. 0.03 - 0.08: Silty sand brown/reddish brown with organics at 0.08: suspected tailings, grey sandy material. | Y |
| B-34 | 606911 | 5006241 | None | - | 0.3 | 0 - 0.1: brown silty sand and organics. 0.1: tailings - grey sand | Y |
| B-35 | 606908 | 5006253 | None | - | 0.2 | 0.05: organics , 0.2: gray silt, sand, tailings, brown grey silty sand. | Y |
| B-36 | 606940 | 5006016 | Metals, General Chemistry, TCLP, TOC, Methyl Mercury, Grain Size | 0.05 - 0.3 | 0.34 | 0.0 - 0.05: organic, root material. 0.05 - 0.15: brown silty sand, topsoil moist, trace gravel and cobble with organic matter. 0.15: suspected tailings, grey sandy material. | Y |
| B-37 | 606926 | 5006229 | Metals, General Chemistry, TCLP, TOC, Methyl Mercury, Grain Size, Modified Acid-Base Accounting | 0.1-0.2 | 0.3 | Tailings after 5cm. | Y |
| B-38 | 606921 | 5006172 | Metals, General Chemistry | 0.05-0.2 | 0.2 | Tailings throughout | Y |
| B-39 | 606944 | 5006250 | None | - | 0.7 | 0.05: organics. 0.05 - 0.6: black grey sandy silt, organics throughout. 0.6 - 0.7: brown silt sandy. | N |
| B-40 | 606920 | 5006265 | Metals, General Chemistry | 0.08-0.3 | 0.3 | 0 - 0.08: organics. 0.08- 0.3: Brown silty sand. | N |
| B-41 | 606934 | 5006100 | None | 0.1 | 0.23 | 0.0 - 0.05: Moss/organics. 0.05 - 0.10: brown/reddish silty sand with organics.).10: suspected tailings, grey sandy material. | Y |
| B-42 | 606953 | 5006024 | None | 0.1 | 0.25 | Surface: grass/organics , brown silty sand with organics to grey sandy material (suspected tailings) wet, few cobble. | Y |
| B-43 | 606948 | 5006135 | None | - | 0.5 | 0.05: moss. 0.09 - 0.5: organics and brown silt/sand | N |
| B-44 | 606949 | 5006145 | None | - | 0.6 | 0.05: Moss. 0.05 - 0.6:dark brown silty organics | N |
| B-45 | 606944 | 5006250 | None | - | 0.2 | 0.05: organics. 0.20: grey silt/sand - tailings. | Y |
| B-46 | 606943 | 5006111 | Metals, General Chemistry | 0.05-0.25 | 0.25 | 0.0 - 0.05: Moss, organics to reddish /brown silty sand to brown/grey sandy material | Y |
| B-47 | 606963 | 5006064 | Metals, General Chemistry | 0.03 - 0.14 | 0.14 | 0.03 - 0.14: brown with light grey sandy material with cobble. Sandy material is below surface material | Y |
| B-48 | 606967 | 5006053 | None | - | 0.22 | Brown silty sand with trace cobbles and gravels. Rocky area. | N |
| B-49 | 606940 | 5006016 | None | - | 0.22 | Brown silty sand dry to moist , trace cobbles. | N |
| B-50 | 606952 | 5006381 | None | - | 0.15 | Surface organic / leaves debris, brown silty sand with cobbles and gravel | N |

| Delineation Point | Coordinates (NAD83 UTM 20N) | | Samples Collected | Depth to Sample (m) | Depth of Hole (m) | Stratigraphy (m) | Suspected Tailings |
|-------------------|-----------------------------|---------|---------------------------|---------------------|-------------------|---|--------------------|
| | X | Y | | | | | |
| B-51 | 606959 | 5006136 | None | - | 0.4 | 0.1: organics, grass. 0.1 - 0.3: Dense grey silty sand - possible tailings. 0.3-0.4: dark brown silty sand | Y |
| B-52 | 606962 | 5006099 | None | 0.1 | 0.15 | 0 - 0.03: Moss. 0.03 - 0.10: Brown silty sand, moist. 0.10: grey sandy material, suspected tailings. | Y |
| B-53 | 606966 | 5006164 | None | - | 0.25 | 0 - 0.25: Brown silty sand and cobbles | N |
| B-54 | 606959 | 5006177 | None | - | 0.34 | 0.05 - 0.34: Brown silty sand and cobbles | N |
| B-55 | 606959 | 5006186 | None | - | 0.41 | 0.05 - 0.41: brown sand and silt, cobbles | N |
| B-56 | 606962 | 5006211 | Metals, General Chemistry | 0.1 - 0.4 | 0.4 | 0.05: organics. 0.4: sand and silt, cobbles | N |
| B-57 | 606956 | 5006225 | None | - | 0.1 | Tailings under initial moss layer | Y |
| B-58 | 606955 | 5006257 | None | - | 0.4 | 0.05: Moss. 0.05 - 0.4: black silty organics | N |
| B-59 | 606961 | 5006107 | None | - | 0.7 | 0-0.1: brown silty sand. 0.1-0.6: Fill, brown sand. 0.6-0.7: tailings | Y |
| B-60 | 606961 | 5006230 | None | - | 0.1 | Tailings under initial moss layer | Y |
| B-61 | 606963 | 5006152 | None | - | 0.25 | 0.1 - organics. 0.14: grey, white silty sand. 0.15: brown sandy silt. | N |
| B-62 | 606969 | 5006015 | None | - | 0.2 | 0.0 - 0.2: surface, leaves sticks, organic matter, brown silty sand to brown sandy material. Trace cobble. | N |
| B-63 | 606970 | 5006157 | Metals, General Chemistry | 0.05 - 0.3 | 0.3 | 0.3: brown cobbly sand | N |
| B-64 | 606983 | 5006102 | None | - | 0.45 | 0-0.45: brown silty sand, fill | N |
| B-65 | 606963 | 5006151 | None | - | 0.3 | 0-0.05: Organics 0.05 - 0.30: Brown silty sand | N |
| B-66 | 606969 | 5006142 | None | - | 0.2 | 0.1: organics, rest is tailings. | Y |
| B-67 | 606960 | 5006229 | Metals, General Chemistry | 0.1 - 0.5 | 0.5 | 0.1 - 0.2: brown sand some silt. 0.2- 0.22: grey silty sand. 0.22 - 0.5: Brown silt and sand. | N |
| B-68 | 606972 | 5005982 | None | - | 0.25 | Surface: leaves/debris organics. Brown silty sand , trace organic , trace cobble, moist native. | N |
| B-69 | 607010 | 5006069 | Metals, General Chemistry | 0.1-0.3 | 0.3 | 0-0.1: organics, moss. 0.1 - 0.15: black silty organics. 0.15 - 0.3: black clayey silt | N |
| B-70 | 607024 | 5006064 | None | - | 0.2 | 0-0.1: organics. 0.1 - 0.2: brown sandy silt | N |
| C-01 | 606996 | 5006305 | Metals, General Chemistry | 0.25 - 0.45 | 0.45 | 0.0 - 0.05: organics/moss. 0.05 - 0.45: brown to reddish brown silty sand with trace cobbles. | N |
| C-02 | 606977 | 5006304 | None | - | 0.4 | 0.0 - 0.10: Moss/organics. 0.10 - 0.40: Brown to reddish brown silty sand wit trace cobbles. 0.3: light brown sand within brown/reddish brown silty sand. | N |
| C-03 | 606994 | 5006263 | Metals, General Chemistry | 0.07 - 0.27 | 0.27 | 0 - 0.10: grass/moss, organics. 0.10 - 0.20: suspected tailings , grey sandy material. 0.20: brown to reddish silty sand, trace cobbles. | Y |
| C-04 | 606991 | 5006322 | None | - | 0.4 | 0 - 0.05: organics/moss. 0.05 - 0.40: Brown to reddish brown silty sand with trace cobble. (trace organics in upper brown layer.) | N |

| Delineation Point | Coordinates (NAD83 UTM 20N) | | Samples Collected | Depth to Sample (m) | Depth of Hole (m) | Stratigraphy (m) | Suspected Tailings |
|-------------------|-----------------------------|---------|--|---------------------|-------------------|---|--------------------|
| | X | Y | | | | | |
| C-05 | 607014 | 5006309 | None | 0.03 | 0.23 | Grass/roots followed by grey sand ,arterial - suspected tailings. | Y |
| C-06 | 607007 | 5006292 | None | 0.05 | 0.25 | Grass/roots followed by suspected tailings, grey sandy material, wet. | Y |
| C-07 | 607019 | 5006351 | Metals, General Chemistry | 0.1 - 0.25 | 0.26 | Surface leaves/grass(organiacs) to brown silty sand with trace cobbles. | N |
| C-08 | 607015 | 5006329 | None | - | 0.3 | 0 - 0.07: Surface organics, roots/moss. 0.07 - 0.30: brown silty sand with organics, wet. | N |
| C-09 | 607006 | 5006270 | None | - | 0.15 | 0 - 0.03: Moss/organiacs. 0.03 - 0.15: Brown silty sand with organics throughout , saturated, very wet. | N |
| C-10 | 607005 | 5006255 | None | - | 0.32 | 0 - 0.05: organics/grass. 0.05 - 0.32: brown to reddish brown silty sand with trace cobbles. 0.32: slight brown sandy layers. | N |
| C-11 | 607019 | 5006320 | None | 0.1 | 0.3 | Surface organics, small shallow layer of brown silty sand, grey sandy material below. | Y |
| C-12 | 607029 | 5006307 | None | 0.01 | 0.25 | Thin grass/silty sand over suspected tailings. | Y |
| C-13 | 607026 | 5006269 | Metals, General Chemistry, TCLP, TOC, Methyl Mercury, Grain Size | 0.01-0.2 | 0.25 | Thin grass/silty sand over suspected tailings. | Y |
| C-14 | 607021 | 5006229 | None | - | 0.24 | 0.0 - 0.07: organics/moss and thick intertwined roots. 0.07 - 0.24: brown to dark brown moist silty sand , loose with organics. | N |
| C-15 | 607034 | 5006343 | None | 0.2 | 0.4 | 0.0 - 0.3: grass/roots / organics. 0.03 - 0.20: Brown silty sand with trace cobble, trace organics, moist to wet. 0.20: suspected tailings , wet grey to black material. | Y |
| C-16 | 607049 | 5006225 | None | 0.25 | 0.35 | 0.0 - 0.10: Moss/organic (mostly moss). 0.10 - 0.25: Brown to dark brown silty sand , trace organics , trace gravel. 0.25: brown to grey sandy material - suspected tailings. | Y |
| C-17 | 607048 | 5006334 | None | 0.15 | 0.25 | Brown silty sand with cobbles and gravel , trace. 0.15: suspected tailings, grey sandy material. | Y |
| C-18 | 607057 | 5006330 | Metals, General Chemistry, TCLP, TOC, Methyl Mercury, Grain Size | 0.1-0.22 | 0.22 | 0.1 - 0.05: roots/grass and moss. 0.05 - 0.22: Brown silty sand with organics throughout (roots) trace cobbles, moist to wet. | N |
| C-19 | 607058 | 5006257 | None | Tailings at surface | 0.25 | Thin brown/organic layer , grey sandy suspected tailings. 0.12: dark brown silty sand with trace organics , trace cobbles, moist. | Y |
| C-20 | 607054 | 5006318 | None | 0.17 | 0.23 | 0 - 0.02: organic grass/moss/roots. 0.02 - 0.17: brown silty sand and trace organics with cobble. 0.17: Suspected tailings, grey sandy material. | Y |

| Delineation Point | Coordinates (NAD83 UTM 20N) | | Samples Collected | Depth to Sample (m) | Depth of Hole (m) | Stratigraphy (m) | Suspected Tailings |
|-------------------|-----------------------------|---------|---|---------------------|-------------------|---|--------------------|
| | X | Y | | | | | |
| C-21 | 607062 | 5006311 | None | - | 0.34 | Brown, silty sand, moist, native, trace cobble | N |
| C-22 | 607080 | 5006281 | Metals, General Chemistry | 0.05-0.2 | 0.25 | 0 - 0.05: Moss. 0.05 - 0.07: Loose brown silty sand with organics. 0.07: dark grey sand, suspected tailings. | Y |
| D-01 | 607187 | 5006182 | None | - | 0.32 | 0.15: moss, silty organic. 0.15 - 0.32: brown sandy silt and organics. | N |
| D-02 | 607193 | 5006248 | Metals, General Chemistry | 0.0 - 0.3 | 0.3 | 0.03: brown silty sand. 0.03 - 0.3: area very rocky | N |
| D-03 | 607192 | 5006242 | None | - | 0.4 | 0.05: organics. 0.05 - 0.4: grey sand tailings | Y |
| D-04 | 607218 | 5006187 | None | - | 0.2 | Tailings throughout | Y |
| D-05 | 607199 | 5006203 | None | - | 0.45 | 0-0.05: organics. 0.05-0.1: brown silty sand. 0.1 - 0.11: grey silty sand. 0.11 - 0.3: red brown silty sand. 0.3 - 0.45: brown sandy silt | N |
| D-06 | 607201 | 5006186 | None | - | 0.27 | 0.03: organics. 0.03 - 0.12: red brown silty sand. 0.12 - 0.2: grey sandy silt. 0.2 - 0.27: red/brown sandy silt | Y |
| D-07 | 607205 | 5006248 | Metals, General Chemistry, TCLP, TOC, Methyl Mercury, Grain Size, Modified Acid-Base Accounting | 0.1 - 0.6 | 0.6 | 0 - 0.01: organics. 0.01 - 0.6: sandy grey tailings | Y |
| D-08 | 607204 | 5006211 | Metals, General Chemistry | 0.05 - 0.2 | 0.2 | 0.05:organics. 0.05-0.2: brown sandy silt | N |
| D-09 | 607218 | 5006187 | Metals, General Chemistry | 0.1 - 0.4 | 0.4 | 0-0.1: brown, silty sand, some organics. 0.1-0.4: red brown sandy silt. Other holes in the area showed white rock dust | N |
| D-10 | 607217 | 5006203 | None | - | 0.3 | 0.11: organics/grass. 0.11 - 0.3: clayey silt trace sand, possible tailings | Y |
| D-11 | 607223 | 5006244 | None | - | 0.3 | 0.05: organics. 0.05 - 0.3: tailings grey silty sand | Y |
| D-12 | 607233 | 5006154 | Metals, General Chemistry | 0.35 - 0.55 | 0.55 | 0.025: moss, wet. 0.35: water. 0.55: organics, silt | N |
| D-13 | 607229 | 5006170 | None | - | 0.58 | 0-0.1: moss/organics. 0.1 - 0.38: water. 0.38 - 0.58: silt/organics. | N |
| D-15 | 607235 | 5006248 | None | - | 0.4 | 0.2: organics. 0.2 - 0.4: brown sandy silt. | N |
| D-16 | 607243 | 5006153 | None | - | 0.55 | 0.34: organic/water. 0.34 - 0.55: organics. Wetland | N |
| D-17 | 607242 | 5006169 | None | - | 0.85 | 0-0.1: organics, moss. 0.1-0.7: water. 0.7-0.85: black silt, organics | N |
| D-18 | 607243 | 5006231 | None | - | 0.2 | Tailings throughout | Y |
| D-19 | 607257 | 5006260 | Metals, General Chemistry | 0.1 - 0.3 | 0.3 | 0.01: organics. 0.1 - 0.3: brown silt sand, trace gravel | N |
| D-20 | 607258 | 5006246 | None | - | 0.2 | 0.05: organics. 0.05 - 0.2: grey sandy silt, likely tailings | Y |
| D-21 | 607253 | 5006219 | Metals, General Chemistry | 0 - 0.3 | 0.5 | 0.3: tailings. 0.3-0.5: brown silt , all under water | Y |

| Delineation Point | Coordinates (NAD83 UTM 20N) | | Samples Collected | Depth to Sample (m) | Depth of Hole (m) | Stratigraphy (m) | Suspected Tailings |
|-------------------|-----------------------------|---------|---|---------------------|-------------------|--|--------------------|
| | X | Y | | | | | |
| D-22 | 607256 | 5006191 | Metals, General Chemistry, TCLP, TOC, Methyl Mercury, Grain Size, Modified Acid-Base Accounting | 0.5 - 0.9 | 0.9 | Wetland - floating moss water, organics. 0.4: black silt and organics | N |
| D-23 | 607262 | 5006157 | None | - | 0.4 | 0-0.2: water. 0.2-0.3: organics. 0.3 - 0.4: brown sandy silt | N |
| D-24 | 607262 | 5006109 | None | - | 0.75 | 0-0.7: organics, water. 0.7 - 0.75: black silt, organics, saturated | N |
| D-25 | 607258 | 5006233 | None | - | 0.2 | Tailings throughout | Y |
| D-26 | 607269 | 5006249 | None | - | 0.4 | 0.05: Moss. 0.05 - 0.4: Dark brown sandy silt , organic with some light brown patches. 0.3-0.4: red brown | N |
| D-27 | 607272 | 5006169 | None | - | 0.3 | 0.1: moss. 0.1 - 0.2: brown silt, some sand/organics. 0.2 - 0.3: same, but saturated. | N |
| D-28 | 607275 | 5006182 | None | - | 0.1 | organics, on bedrock, no material retrieved | N |
| D-29 | 607275 | 5006202 | None | - | 0.2 | moss/organics, brown sand. | N |
| D-30 | 607278 | 5006208 | None | - | 0.2 | 0.18: organics. 0.18 - 0.2: silt, trace sandy brown | N |
| D-31 | 607288 | 5006208 | None | - | 0.2 | 0.15: organics. 0.15 - 0.2: brown sandy silt, some grey | N |
| D-32 | 607282 | 5006245 | None | - | 0.6 | 0.015: moss/organics. 0.15 - 0.6: light brown silt sand. | N |
| D-33 | 607300 | 5006199 | None | - | 0.2 | organic top layer, 0.2: brown sandy silt. | N |
| D-34 | 607290 | 5006229 | Metals, General Chemistry | 0.1 - 0.4 | 0.4 | 0.08: organics. 0.08 - 0.2: brown sandy silt trace grey. 0.2-0.4: dark brown silty sand | N |
| D-35 | 607288 | 5006208 | None | - | 0.21 | 0.08: moss/organics. 0.08 - 0.21: brown sandy silt. | N |
| E-01 | 607015 | 5006224 | None | - | 0.25 | Shallow, thin grass/vegetation followed by brown sandy silt with trace cobbles. | N |
| E-02 | 607021 | 5006236 | None | - | 0.18 | 0.0 - 0.03: Grass/roots and organics. 0.03: dark brown silty sand with organics throughout. 0.16: thin light brown sand. 0.18: reddish brown to brown silty sand with trace cobbles. | N |
| E-03 | 607035 | 5006230 | None | 0.13 | 0.2 | 0.0 - 0.05: Moss/organics and transitions to brown silty sand with organics, loose, wet. 0.13: Brown to grey sandy material. Suspected tailings | Y |
| E-04 | 607029 | 5006215 | None | 0.15 | 0.24 | 0.0 - 0.05: Moss. 0.05 - 0.15: brown silty sand with organics throughout. 0.15: suspected tailings distinct grey, brown grey sand. | Y |
| E-05 | 607051 | 5006232 | Metals, General Chemistry | 0.15 - 0.34 | 0.34 | 0.0 - 0.07: Moss/organics. 0.07: brown silty sand with organics throughout. 0.20: more sand, more brown in colour. | N |
| E-06 | 607036 | 5006210 | None | - | 0.3 | 0.0 - 0.07: Moss. 0.07 - 0.30: Brown, wet silty sand with organics throughout. | N |

| Delineation Point | Coordinates (NAD83 UTM 20N) | | Samples Collected | Depth to Sample (m) | Depth of Hole (m) | Stratigraphy (m) | Suspected Tailings |
|-------------------|-----------------------------|---------|---------------------------|---------------------|-------------------|--|--------------------|
| | X | Y | | | | | |
| E-07 | 607061 | 5006249 | None | - | 0.35 | 0.0 - 0.03: Moss. 0.03: Brown silty sand with organics throughout. 0.15: more sandy / sandy silt, light brown in colour followed by reddish brown sandy silt with trace cobbles. | N |
| E-08 | 607058 | 5006207 | Metals, General Chemistry | 0.2 - 0.4 | 0.43 | 0.0 - 0.03: Moss/organics. 0.03: brown, reddish brown silty sand. | N |
| E-09 | 607065 | 5006234 | None | 0.13 | 0.2 | 0.0 - 0.05: Moss. 0.05 - 0.13: Brown silty sand with organics throughout, loose, wet. 0.13: turned into sandy material, light brown. Suspected tailings | Y |
| E-10 | 607073 | 5006252 | None | Tailings at surface | 0.25 | Thin organic layer followed by grey sand , suspected tailings. | Y |
| E-11 | 607080 | 5006256 | Metals, General Chemistry | 0.0 - 0.15 | 0.25 | 0.0 - 0.02: thin layer of organics / brown silty sand. 0.02: suspected tailings, grey sandy material. | Y |
| E-12 | 607077 | 5006185 | None | - | 0.3 | 0.0-0.1: Moss, organics. 0.10 - 0.30: Brown, reddish brown silty sand with trace cobbles. Thin light brown sandy material at 0.25m. | N |
| E-13 | 607074 | 5006210 | None | 0.1 | 0.16 | 0.0 - 0.03: Moss/organics. 0.03 - 0.10: Brown silty sand with organics. 0.10: suspected tailings. | Y |
| E-14 | 607050 | 5006197 | None | 0.07 | 0.21 | 0.0 - 0.05: Moss/organics with layer of brown silty sand. 0.07: grey to light brown sandy material (suspected tailings) followed by reddish brown silty sand layer. | Y |
| E-15 | 607080 | 5006234 | None | 0.05 | 0.25 | 0.05: Moss/organics. 0.05 - 0.25: grey sand, suspected tailings. | Y |
| E-16 | 607084 | 5006318 | None | - | 0.17 | 0 - 0.05: trace debris /organics. 0.05 - 0.17: Brown silty sand with trace organics and trace cobble, moist . 0.15: more sandy brown/light brown in colour. | N |
| E-17 | 607087 | 5006310 | None | 0.13 | 0.18 | 0 - 0.05: grass/organics. 0.05 - 0.13: loose, light brown to brown silty sand , moist trace organics, trace cobble. 0.13: grey, sand , suspected tailings. | Y |
| E-18 | 607090 | 5006279 | None | 0.14 | 0.25 | 0.0 - 0.02: moss/organics, grass. 0.02 - 0.14: Brown silty sand with organics throughout. 0.14: grey sand , suspected tailings. | Y |
| E-19 | 607091 | 5006216 | None | Tailings at surface | 0.25 | Thin layer of moss/organics over grey sand (suspected tailings) water at 0.10m. | Y |
| E-20 | 607085 | 5006206 | None | 0.01 | 0.2 | 0.0 - 0.03: Moss and thin organic layer. 0.03: tailings grey sandy material | Y |
| E-21 | 607096 | 5006185 | None | Tailings at surface | 0.25 | 0.0:Moss. Tailings below thin moss/organics layer. Tailings light grey sandy material. | Y |
| E-22 | 607102 | 5006229 | Metals, General Chemistry | 0.05 - 0.18 | 0.2 | 0.0 - 0.03: Moss/vegetation. 0.03 - 0.11: Brown sandy silt moist with trace cobbles. 0.11: suspected tailings , grey sandy material | Y |

| Delineation Point | Coordinates (NAD83 UTM 20N) | | Samples Collected | Depth to Sample (m) | Depth of Hole (m) | Stratigraphy (m) | Suspected Tailings |
|-------------------|-----------------------------|---------|---|---------------------|-------------------|--|--------------------|
| | X | Y | | | | | |
| E-23 | 607096 | 5006309 | None | - | 0.26 | 0.0 - 0.07: moss/organic. 0.07: Brown silty sand with trace organics, trace cobbles. 0.20: more sandy light brown sand / sandy silt. | N |
| E-24 | 607099 | 5006269 | None | 0.08 | 0.2 | Moss on surface, brown silty sand with trace organics. 0.08: grey sand material, suspected tailings. | Y |
| E-25 | 607106 | 5006255 | None | - | 0.25 | 0.0 - 0.03: Moss/vegetation. 0.03 - 0.12: Brown, silty sand with organics, loose moist. 0.12 - 0.30: reddish brown sandy silt, trace cobbles. | N |
| E-26 | 607104 | 5006207 | None | Tailings at surface | 0.25 | Thin layer of moss/organics over grey sand (suspected tailings) | Y |
| E-27 | 607097 | 5006030 | None | - | 0.25 | Moss/organics 0.1-0.25: tailings | Y |
| E-28 | 607102 | 5006002 | None | - | 0.2 | Tailings throughout | Y |
| E-29 | 607111 | 5006046 | None | - | 0.2 | Mid river, surge rock, hand grab at bottom resulted in tailings | Y |
| E-30 | 607101 | 5006305 | None | - | 0.4 | 0 - 0.07: moss/organics. 0.07 - 0.20: brown silty sand with trace organics, reddish brown. 0.20: more sandy light brown sand layer. | N |
| E-31 | 607106 | 5006191 | Metals, General Chemistry, TCLP, TOC, Methyl Mercury, Grain Size | 0.0 - 0.25 | 0.25 | Tailings from surface, wet sandy material, grey in colour. | Y |
| E-32 | 607121 | 5006275 | None | - | 0.26 | 0.0 - 0.05: Moss/organics and vegetation. 0.05 - 0.14: brown , wet silty sand with organics throughout. 0.14 - 0.26: more brown to reddish brown silty sand , trace organics and trace cobbles, moist. | N |
| E-33 | 607117 | 5006261 | Metals, General Chemistry | 0.1 - 0.3 | 0.3 | 0.0 - 0.05: Moss/vegetation. 0.05 - 0.17: Brown silty sand with organics throughout, loose, moist. 0.17 - 0.30: Reddish brown sandy silt with trace cobble, moist. | N |
| E-34 | 607111 | 5006239 | None | 0.16 | 0.23 | 0.0 - 0.03: Moss/vegetation. 0.03 - 0.16: loose brown silty sand with organics throughout. 0.16: grey sandy , material, suspected tailings. | Y |
| E-35 | 607128 | 5006025 | Metals, General Chemistry, TCLP, TOC, Methyl Mercury, Grain Size, Modified Acid-Base Accounting | 0.2-0.35 | 0.35 | 0.2: tailings, more brown sand, some silt. 0.2-0.3: some orange colour silt. 0.3-0.35: grey brown sand and silt | Y |
| E-36 | 607117 | 5005987 | None | - | 0.2 | 0.05: brown saturated organics. 0.05-0.2: tailings | Y |
| E-37 | 607118 | 5006040 | None | - | - | River bed, very rocky, signs of tailings | Y |
| E-38 | 607121 | 5006294 | None | - | 0.24 | 0 - 0.10: moss. 0.10 - 0.24: brown silty sand , wet with organics throughout. | N |

| Delineation Point | Coordinates (NAD83 UTM 20N) | | Samples Collected | Depth to Sample (m) | Depth of Hole (m) | Stratigraphy (m) | Suspected Tailings |
|-------------------|-----------------------------|---------|--|---------------------|-------------------|--|--------------------|
| | X | Y | | | | | |
| E-39 | 607123 | 5006215 | None | 0.09 | 0.23 | Thin surface of moss/vegetation followed by brown to reddish brown silty sand with trace organics. 0.09: grey sandy material , suspected tailings. | Y |
| E-40 | 607132 | 5006193 | Metals, General Chemistry | 0.08 - 0.18 | 0.18 | Thin moss/organic over brown silty sand , loose moist with organics throughout. 0.08: more silty sand , dark brown and wet. | N |
| E-41 | 607141 | 5006222 | None | 0.02 | 0.25 | Thin topsoil/vegetation layer over grey sandy material , suspected tailings. Patches of sandy grey suspected tailings exposed in this area. | Y |
| E-42 | 607132 | 5006042 | None | - | 0.1 | organics, tailings | Y |
| E-43 | 607155 | 5006019 | None | - | 0.4 | 0-0.1: organics. 0.1-0.4: black organics and silt | N |
| E-44 | 607140 | 5005993 | None | - | 0.3 | 0-0.1: moss. 0.1 - 0.2: Void. 0.2-0.3: brown sandy silt. | N |
| E-45 | 607139 | 5006299 | Metals, General Chemistry, TCLP, TOC, Methyl Mercury, Grain Size | 0.15-0.30 | 0.3 | 0.0-0.07: brown silty sand with organics throughout, wet. | N |
| E-46 | 607163 | 5006231 | Metals, General Chemistry | 0.08 - 0.18 | 0.18 | Brown silty sand , moist to dry trace organics | N |
| E-47 | 607148 | 5006138 | Metals, General Chemistry | 0.1 - 0.2 | 0.2 | 0.0 - 0.03: Moss/vegetation. 0.03 - 0.20: Brown silty sand with trace cobble, trace organics throughout, moist. | N |
| E-48 | 607154 | 5006189 | None | - | 0.4 | 0.0 - 0.08: grass/vegetation. 0.08 - 0.20: Brown silty sand with organics, moist, wet. 0.20: more sandy silt consistency , grey in colour, potential tailings | Y |
| E-49 | 607146 | 5006173 | None | - | 0.24 | 0.0 - 0.08: Moss/ vegetation. 0.08 - 0.24: brown silty sand, moist with organics throughout. | N |
| E-50 | 607149 | 5006210 | None | - | 0.17 | 0.0 - 0.03: Moss/organic . 0.03 - 0.17: wet, brown silty sand with organics throughout | N |
| E-51 | 607148 | 5006306 | None | - | 0.37 | 0 - 0.10: Moss. 0.10 - 0.37: brown silty sand with organics throughout, wet. 0.10:water. | N |
| E-52 | 607169 | 5006132 | None | - | 0.18 | 0 - 0.08: Moss/organics. 0.08 - 0.18: brown silty sand with organics throughout, loose, moist to wet. | N |
| E-53 | 607167 | 5006217 | None | 0.08 | 0.25 | Thin vegetation / grass over brown, moist silty sand with organics. 0.08: grey sandy material (suspected tailings) | Y |
| E-54 | 607170 | 5006165 | None | - | 0.36 | 0.0 - 0.02: Moss/grass and vegetation. 0.02 - 0.20: brown to reddish brown silty sand, trace cobble, moist. 0.20-0.25: light grey /brown sand material with black starting at 0.20. 0.25 - 0.36: Same brown as previous layer. | N |

| Delineation Point | Coordinates (NAD83 UTM 20N) | | Samples Collected | Depth to Sample (m) | Depth of Hole (m) | Stratigraphy (m) | Suspected Tailings |
|-------------------|-----------------------------|---------|---------------------------|---------------------|-------------------|---|--------------------|
| | X | Y | | | | | |
| E-55 | 607179 | 5006190 | Metals, General Chemistry | 0.1-0.3 | 0.3 | 0-0.1:Vegetation 0.1-0.08 over silty sand with organics. 0.08: grey sandy material, suspected tailings | Y |
| E-56 | 607177 | 5006207 | Metals, General Chemistry | 0.08 - 0.2 | 0.25 | Thin vegetation /grass over silty sand with organics. 0.08: grey sandy material, suspected tailings | Y |
| E-57 | 607197 | 5006243 | None | 0.12 | 0.25 | Thin grass/vegetation organic layer with brown silty sand, loose , moist trace organics. 0.12; Grey sandy material, suspected tailings. | Y |
| E-58 | 607216 | 5006072 | None | - | 0.25 | 0-0.1: organics. 0.1-0.2: organics and silt, black. 0.2-0.25: brown silty sand | N |
| E-59 | 607222 | 5006061 | None | - | 0.35 | 0-0.15: organics. 0.15-0.25: silt and organics. 0.25-0.35: brown silty sand | N |
| E-60 | 607210 | 5006089 | None | - | 0.2 | 0-0.05: organics. 0.05-0.2: brown silty sand | N |
| E-61 | 607238 | 5006089 | None | - | 0.6 | 0-0.2: moss/organics. 0.2-0.6: brown sandy silt possible 0.2m of void. | N |
| E-62 | 607239 | 5006075 | Metals, General Chemistry | 0.2-0.5 | 0.5 | 0-0.2: moss/organics. 0.2-0.5: silt and organics, black | N |
| E-63 | 607237 | 5005057 | None | - | 0.35 | 0.15: organics, brown. 0.15-0.35: brown silt. | N |
| E-64 | 607238 | 5006089 | None | - | 0.6 | 0-0.6: moss/organics, sandy brown silt | N |
| E-65 | 607251 | 5006079 | None | - | 0.4 | 0.2: organics, black. 0.2-0.4: brown sandy silt , saturated. | N |
| E-66 | 607252 | 5006062 | None | - | 1 | 0-0.8: organics, void. 0.8-1.0: black silt organics. | N |
| E-67 | 607787 | 5006081 | None | - | 0.3 | 0.05:organics. 0.05 - 0.3: grey silt sand, trace cobbles, possible native | N |
| E-68 | 607804 | 5006090 | Metals, General Chemistry | 0.15 - 0.2 | 0.2 | 0.15: organics. 0.15 - 0.2: brown sandy silt, some grey | N |
| E-69 | 607818 | 5006079 | None | - | 0.3 | 0.12: organics. 0.12 - 0.2: grey silty sand. 0.2 - 0.3: brown sandy silt. | N |
| E-70 | 607826 | 5006109 | None | - | 0.3 | 0.15: organics. 0.15 - 0.18: grey sandy silt. 0.18 - 0.3: brown silty sand. | N |
| E-71 | 607844 | 5006133 | None | - | 0.48 | 0.05: organics. 0.05 - 0.35: silt, orange. 0.035-0.38: grey sand , some cobble. 0.38 - 0.48: light brown to grey silty sand , native. | N |
| E-72 | 607885 | 5006292 | None | - | 0.35 | 0.05: organics, moss. 0.05 - 0.1: possible tailings. 0.2 - 0.35: brown sandy silt | Y |
| E-73 | 607891 | 5006189 | None | - | 0.4 | 0.1-0.2: brown/grey silty sand. 0.2 - 0.4: brown sandy silt , saturated. | N |
| E-74 | 607900 | 5006175 | Metals, General Chemistry | 0.15 - 0.4 | 0.4 | 0.15: moss, organics. 0.15 - 0.4: grey sandy silt, possible tailings | Y |
| E-75 | 607966 | 5006164 | None | - | 0.3 | 0.15: organics. 15 - 0.3: light brown /grey silty sand | Y |



Appendix E.2

Historic Tailings Management Plan



Historic Tailings Management Plan

Goldboro Gold Project

Anaconda Mining Inc.

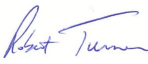

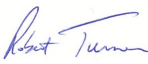

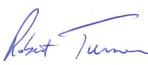
27 May 2022

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Glossary of Terms

| | |
|-------------|--|
| Anaconda | Anaconda Mining Inc. |
| ARD | Acid Rock Drainage |
| As | Arsenic |
| CCME | Canadian Council of Ministers of the Environment |
| EARD | Environmental Assessment Registration Document |
| EMP | Environmental Management Plan |
| EQS | Environmental Quality Standards |
| ESA | Environmental Site Assessment |
| GHD | GHD Limited |
| Hg | Mercury |
| HTMP | Historic Tailings Management Plan |
| IP | Induced Polarization |
| km | kilometres |
| ML | Metal Leaching |
| NPAG | Non-potentially acid Generating |
| Nordmin | Nordmin Engineering Ltd. |
| NPR | Net Potential Ration |
| NS | Nova Scotia |
| NSECC | Nova Scotia Environment and Climate Change |
| Onitap | Onitap Resources Inc. |
| Orex | Orex Exploration Inc. |
| Osisko | Osisko Mining Corporation |
| PA | Project Area |
| ROM | Run-of-Mine |
| Se | Selenium |
| SSWQG | Site-Specific Water Quality Guidelines |
| The Project | Goldboro Gold Project |
| TMF | Tailings Management Facility |
| tpd | tonne per day |
| VLF-EM | Very Low Frequency Electromagnetic |
| WRSAs | Waste Rock Storage Areas |
| WTS | Water Treatment System |
| Zn | Zinc |

1. Introduction

GHD Limited (GHD) was tasked by Anaconda Mining Inc. (Anaconda) with developing a Historic Tailings Management Plan (HTMP) to address historic tailings found in vicinity of the proposed Goldboro Gold Project (the Project). This HTMP was completed as part of the Environmental Management Plan (EMP) for the development of the Project and serves as a management plan for the remediation and/or monitoring of metal impacted tailings present contamination within the Project Area (PA) from historical mining activity. The HTMP consists of a historic tailings assessment, remedial options for tailings, remediation measures, and monitoring plan.

Nova Scotia Lands Inc. (NSLI) is currently undertaking a Phase I and Phase II Environmental Site Assessment (ESA) and remedial action plan for all historic tailings located on Crown land within the Upper Seal Harbour Gold District and Lower Seal Harbour Gold District, including the PA. Anaconda is part of a historic tailings working group with NSLI and has provided the data and findings of the limited Phase I and Phase II ESA completed for the Project to assist with their assessment.

Management of historic tailings within the PA will be completed in accordance with the Nova Scotia (NS) *Contaminated Sites Regulations* as well as the Ministerial Protocols pursuant to those regulations. External reporting provided to the Nova Scotia Department of Environment and Climate Change (NSECC) will be completed in accordance with the *Confirmation of Remediation Protocol* (PRO-700). A Remedial Action Plan in accordance with Nova Scotia PRO-600 will also be completed prior to Project development.

1.1 Project Overview

The Project is located approximately 175 kilometres (km) northeast of Halifax, 60 km southeast of Antigonish, and 1.6 km northeast of the community of Goldboro on the eastern shore of Isaacs Harbour, in Guysborough County, NS, Canada. Anaconda proposes to develop the Project as a 4,000-tonne per day (tpd) mine and processing facility. For the purposes of the Environmental Assessment Registration Document (EARD) prepared for the Project, the PA was defined as the footprint of Project-related infrastructure plus a buffer of 100 – 200 m. The mine plan includes two open pits (East Pit and West Pit), an ore processing facility, a lined tailings management facility (TMF), three waste rock storage areas (WRSAs), till and organic material stockpiles, support buildings, and associated infrastructure. The anticipated mine life for extraction of ore is approximately 11 years.

The scope of the Project includes activities associated with construction, operation, and closure. Project construction activities will include:

- Clearing and grubbing, stripping of the overburden and developing organic and till stockpiles for reuse in future reclamation work.
- Preparation of the WRSAs, pits, plant, and TMF areas, and construction of the initial lift of the TMF, plant site, secondary access roads, construction laydowns, Run-of-Mill (ROM) pad, surface water management and other site infrastructure.

The operation phase will include conventional ore extraction methods (drilling, blasting, loading, and hauling), ore processing, and waste management. ROM ore will go directly to the crusher while stockpiled high-grade and low-grade ore will be progressively processed throughout the mine life. Non-ore bearing waste rock, not used for construction or backfill, will be stockpiled at its final disposal point, managed, and reclaimed in place.

The closure phase will include earthworks and demolition required to return the PA to a safe, stable, and vegetated state, and all monitoring and treatment, if required.

1.2 Objectives of the HTMP

Previous assessments have identified historic tailings that are likely to be impacted by proposed Project activities. The purpose of the HTMP is to provide a methodology for the management of these historic tailings in the PA. The HTMP was developed with the following objectives:

- Provide a summary of known areas of historic tailings within, and downstream of, the PA.
- Provide remedial and management options for historic tailings anticipated to be directly or indirectly impacted by Project activities.
- Develop procedures for internal and external reporting on historic tailings removal, transport, and disposal.
- Provide recommendations for further assessment of background soil conditions within the PA to refine the delineation of historic tailings areas.

The Project is still in the early stages of development and as such, historic tailings identification and delineation are on-going. As further information becomes available, this HTMP may be amended and improved to include these items.

2. Historical Tailings Assessment

2.1 Historic Mining Activity

Anaconda currently holds exploration license No. 05888 (the EL) through its wholly-owned subsidiary, Orex Exploration Inc. (Orex). The EL consists of 37 contiguous claims and covers a total area of approximately 592 hectares (ha) in the Goldboro area. Gold mineralization within the EL was first discovered in 1862 by Howard Richardson of the Geological Survey of Canada in quartz veins within the Isaacs Harbour anticline. The gold bearing Boston Richardson Belt (slate and quartz) was subsequently discovered by Howard Richardson in 1892. The Richardson Gold Mining Company (Richardson Gold Mining) began production from the belt in 1893 at an average reported grade of 13.03 grams per tonne (g/t) gold milled (the Boston Richardson Mine). Milling recoveries were reported to be in the 50% to 60% range (Nordmin Engineering Ltd. [Nordmin] 2021).

From 1901 to 1905, three gold bearing belts were intersected in the Dolliver Mountain mine, located 2 km west of the Boston Richardson Mine. In 1904, 7,195 tonnes were milled at a grade of 0.87 g/t to produce 205 ounces (oz) of gold. In 1905 results were unsatisfactory and mining at Dolliver Mountain mine ceased (Nordmin 2021).

From 1909 to 1910, the West Goldbrook exploration shaft intersected five gold bearing belts. Three of these were mill tested, but the milling results were considered unsatisfactory, and the mine was abandoned (Nordmin 2021).

The total volume mined from 1893 to 1910 within the EL has been estimated at 376,303 tonnes with an average recovered gold grade of 4.11 g/t to produce 54,871 oz. However, mill recovery is reported to have been approximately 67%. Operations at the mine continued on a small scale in 1911 and 1912 (Nordmin 2021).

In 1981, Patino Mines (Québec) Ltd. completed a geophysical program covering the Upper Seal Harbour district. In 1984, Onitap Resources Inc. (Onitap) acquired 37 claims overlying the EL. Between 1984 and 1988, Onitap conducted diamond drilling programs, airborne Very Low Frequency Electromagnetic (VLF-EM) surveys, and surface Induced Polarization (IP) surveys. During this period, several new mineralized belts were discovered (Nordmin 2021).

Orex acquired the EL from Onitap in 1988. Excepting a period of inactivity from 1996 to 2004, Orex pursued both surface and underground exploration programs, including large amounts of core drilling, metallurgical testing programs, resource estimation programs, and economic assessments of the EL.

Osisko Mining Corporation (Osisko), under the terms of an agreement with Orex, carried out an extensive core drilling assessment of the EL during the 2010 to 2012 period.

In March of 2017, Anaconda acquired control of the EL under the terms of a court approved Plan of Arrangement whereby Orex became a wholly-owned subsidiary of Anaconda. Work programs carried out in all years between 2017 to 2021 by Anaconda primarily focused on expansion and infill drilling of the Goldboro Gold Deposit as well as conducting an underground bulk sample in 2018.

2.1.1 Environmentally Sensitive Remnants of Past Activities

Records indicate that a large portion of the material brought to surface from the historic underground workings was milled in the area of the proposed Project. More than 385,000 tonnes of ore are reported to have been crushed from 1893 to 1912 in a stamp mill capable of processing up to 1,800 tonnes per month. The mill produced more than 1,700 kg of gold. Records also show that at least 775 tonnes of arsenical concentrate were produced for shipment to Belgium and Wales. Known areas of historic tailings, historic mine shafts, and stamp mills are shown in Figure 1.

Early gold production was via stamp mill and mainly mercury (Hg) amalgamation (Parsons et al., 2012). Gold concentrate was obtained by gravity methods using Wilfley tables until 1906, after which a bromo-cyanide plant was built. The continued use of gravity methods thereafter is uncertain.

Old foundations suggest the principal mill building was located immediately west of Gold Brook Lake, north of the existing Goldbrook Road. The presence of another mill is suggested based on the location of the tailings areas to the south of Goldbrook Road and Gold Brook Lake, however its location is unknown. The locations of past waste rock storage and ore storage areas are unknown.

Historically, tailings were deposited into streams and wetland areas with no provisions for containment or control of leachates. Consequently, tailings migrated along Gold Brook. Stream water samples collected downstream of the southernmost historic tailings areas have shown elevated levels of arsenic (As) and iron (Parsons et al., 2012). The PA has been subject to numerous research activities that are well documented. Sampling by the Geological Survey of Canada in 2012 (Parsons et al., 2012) showed elevated As and Hg levels within tailings of the Upper Seal Harbour area. Elevated As and Hg are also present along Gold Brook where tailings from mill processing from 1893 to 1910 were deposited within or adjacent to natural watercourses.

Orex has received an indemnification letter from the province of Nova Scotia releasing the Company from any liabilities related to the past mining and milling activities if those areas are not disturbed with new or proposed activities.

2.2 Summary of Phase I/II Environmental Site Assessment

GHD conducted a Limited Phase I and Phase II ESA for the Project in 2021 as described below.

2.2.1 Phase I ESA

The Phase I ESA consisted of a records review, site visit observations, an evaluation of information available from previous site work, and a screening of known areas of historic tailings within the area of Upper Seal Harbour.

In order to better define the potential impact of Project activities on historic tailings, a screening table was developed to summarize available information on 17 previously identified areas of historic tailings in the vicinity of Goldboro. Tailings areas A through Q are shown in Figure 1. Based on a review of previous tailings delineations (produced using sampling completed by the Geological Survey of Canada, WSP, and Anaconda), historic tailings areas F through Q are not anticipated to be directly or indirectly impacted by proposed Project infrastructure and were not retained for further investigation. Five tailings areas, A through E, are located in the vicinity of the Project and are likely to be disturbed by proposed activity. These five areas were the focus of further investigation in the Phase II ESA.

2.2.2 Phase II ESA

The Phase II ESA included collection of surface soils samples from five previously identified historic tailings areas, a review of analytical data, and recommendations for further assessment. The Phase II ESA was limited to the investigation of historic mine tailings found within the proposed mineral lease area for the Project.

In order to delineate the horizontal extent of historic tailings areas A through E, samples were collected using a hand auger. A total of 272 delineation points were inspected, including descriptions of lithology and any tailings material encountered; soils from 84 of these delineation points were sampled for analysis. Samples were visually inspected and submitted for analysis based on visual observations and geographic distribution. Delineation points and sample locations are shown in Figure 2.

Concentrations of As, selenium (Se), and zinc (Zn) in exceedance of the NS Tier 1 Environmental Quality Standards (EQS) were present in the historic tailings areas assessed. Arsenic exceedances were present in each of the historic tailings areas assessed (A through E) and are presented in Figure 3. Selenium exceedances were also present in each of the historic tailing areas assessed (A through E) and are presented in Figure 4. Zinc exceedances were present in historic tailings area B and were not recorded in the other areas assessed. The location of the Zn exceedance is presented in Figure 5.

Horizontal and vertical delineation of metals impacted soil was not achieved during this program. Further sampling is recommended to better define the horizontal and vertical extent of metals contamination. As discussed in Section 1, NSLI is currently undertaking a Phase I and Phase II ESA for all historic tailings located on Crown land within the Upper Seal Harbour Gold District and Lower Seal Harbour Gold District, including the PA. Further delineation of historic tailings within the PA will be completed as part of the NSLI program.

3. Remedial Options for Historic Tailings

The Limited Phase I and Phase II ESA has demonstrated tailings have been deposited by historic mining operations in the vicinity of Gold Brook Lake and Gold Brook. Five historic tailings areas, labelled A through E, are likely to be disturbed by proposed Project activities and will require remedial action prior to Project development. Areas of historic tailings overlapping with Project infrastructure are identified in Figure 6.

3.1 Short-Term Storage

Short-term storage of historic tailings disturbed by Project activities will be required during the construction of the initial stage of the TMF. Construction materials required for the TMF embankment, including till and non-potentially acid generating (NPAG) waste rock, will be extracted from the areas of the East Pit and West Pit. Historic tailings within the East Pit and West Pit areas will also be excavated at this time. Selection of short-term storage options will consider the following:

- Analytical results of historic tailings samples and comparison to provincial and/or site-specific screening values.
- Proximity of potential storage areas to ecological receptors and Project infrastructure.
- Installation of a geosynthetic liner, if required.
- Water management infrastructure required for the storage area, including ditches, settling ponds, and water treatment, if required.
- Construction, maintenance, and decommissioning of the storage areas.

Historic tailings in short-term storage areas will be transported to the lined TMF following the initial stage of its construction.

3.2 Long-Term Storage

The TMF constructed for the Project will be a paddock style, single cell facility located on a side hill northeast of Gold Brook Lake as shown in Figure 1. Tailings produced by the Project (in the form of a thickened tails slurry), PAG1 waste rock (Net Potential Ratio (NPR) <1 , or $1 \leq \text{NPR} \leq 2$ and total sulfur $\geq 0.2\%$ by weight), and historic tailings will be transported to the TMF independently and deposited in separate locations within the TMF basin. Following placement, new and historic tailings and PAG1 waste rock will become inundated with thickened tailings slurry deposition and water. This will maintain new and historic tailings and the PAG1 waste rock below a water cover and in a saturated state. Maintaining these waste materials below the long-term saturated zone within the TMF will prevent the onset of acid rock drainage (ARD) conditions and help reduce metal leaching (ML).

The TMF embankment will be constructed of zoned earthfill and rockfill (i.e., finer materials at the core of the embankment with coarser materials upstream and downstream) with a geosynthetic lining system installed along the TMF basin floor and on the upstream face of the perimeter embankments. Installation of a liner beneath the TMF will minimize seepage exiting the facility and is preferred over construction of an unlined facility. The TMF design includes an initial starter embankment followed by subsequent stages. TMF stages will be expanded in stages throughout the operations phase.

3.2.1 Tailings Management Facility Water Management

Inflows will be temporarily stored in the TMF basin before being reclaimed for use in the process plant by a floating pump barge. Water reclaiming, treatment, and release will be conducted such as to maintain a 2 m minimum water cover over the deposited tailings surface.

A seepage collection system consisting of drains and pumps will be used to collect seepage from the TMF. Seepage from the TMF will be greatly reduced through use of a geosynthetic lining system. Drains will be installed in the foundation along the upstream toe of the TMF embankment to collect potential seepage below the embankment and safely direct it to the nearest downstream seepage collection sump, located adjacent to the downstream toe of the embankment.

Water collected in the seepage collection sumps will be transferred back into the TMF using a pump-back system. If the collected water is suitable for release to the environment (i.e., meets the discharge criteria), then it may be discharged to the downstream receiving environment.

Based on the predictive water quality analysis completed for the Project (GHD, 2022c), active water treatment is anticipated to be required to reduce metals, cyanide, and nitrogen series in effluent discharged from the TMF. A conceptual water treatment system (WTS) was designed for the TMF (GHD, 2022d) to treat effluent to applicable regulatory standards.

A polishing pond will be constructed southwest of the TMF and downstream of the TMF WTS to further clarify effluent prior to discharging to Gold Brook Lake. The polishing pond embankment will be constructed as a zoned rockfill dam and will include a geosynthetic lining system. The bulk fill within the embankment will consist of NPAG material, sourced from the open pits. The zoned embankment will be constructed with filter graded materials consisting of a liner bedding layer and one filter/transition zone (processed mine rock).

4. Mitigation Measures During Remediation

4.1 Historic Tailings Excavation

Historic tailings within the footprint of Project infrastructure, including the East Pit, West Pit, and haul road, will be removed via excavator. Tailings will be excavated to the delineated extents or to bedrock and under the supervision of a trained environmental professional.

Previous historic tailings assessments and delineation programs, including the Phase II ESA completed in 2021, will be used to identify the horizontal extent of tailings to be excavated. Further characterization and delineation will be completed using a combination of visual assessment and chemical analysis prior to excavation. Historic tailings in the Goldboro area are physically distinct from native soils and sediments and have the following characteristics:

- Tailings are a light grey-green to dark grey colour.
- Tailings are a silty sand-like material, with no rocks or gravel throughout.
- Tailings are a finer sand than most native soils in the area.

Historic tailings will be placed in haul trucks for transport to the short-term storage area. The volume of tailings material excavated shall be recorded, and photos shall be taken both during excavation and material placement.

Soil and sediment samples will be collected along the horizontal extents of the excavated areas in accordance with the NS *Confirmation of Remediation Protocol* (PRO-700). Samples will also be collected at the vertical extent of excavation where the excavation does not extend to the top of bedrock. Confirmatory samples will be analyzed for metals and Hg and compared to the NS Tier 1 EQS and/or site-specific screening values.

4.2 Water Management

The historic tailings that will be disturbed by Project activities are present in wetland areas south of Gold Brook Lake and in Gold Brook, as shown in Figure 6. Instream excavation work will be conducted in accordance with the Nova Scotia *Activities Designation Regulations* and the *Nova Scotia Watercourse Alterations Standard* and will be limited to the low flow period between June 1st and September 30th. Sections of Gold Brook will be temporarily diverted using cofferdams and a lined diversion channel in order to provide a relatively dry working area during excavation and prevent the mobilization of tailings further downstream.

4.3 Historic Tailings Transport

Historic tailings within the footprint of Project infrastructure will be deposited directly into haul trucks via excavator and transported directly to either the short-term storage area or the TMF. The tailings will be dewatered by gravity in the excavator bucket to the extent practicable prior to being loaded into haul trucks. Truck boxes will be sealed to reduce discharge of water during transport. Existing haul roads will be used to the extent possible with temporary roads constructed only when required to access historic tailings areas.

4.4 Monitoring

4.4.1 Monitoring of Remediated Areas

As noted in Section 4.1, soil and sediment samples will be collected along the horizontal extents of the excavated areas in accordance with the NS *Confirmation of Remediation Protocol* (PRO-700). Samples will also be collected at the vertical extent of excavation where excavation does not extend to the top of bedrock. Confirmatory samples will be analyzed for metals and Hg and compared to the NS Tier 1 EQS and/or site-specific screening values.

Should confirmatory samples exceed the relevant criteria, additional excavation and sampling will be completed in order to delineate the remedial area extent.

4.4.2 Tailings Management Facility Water Monitoring

Monitoring of the TMF and associated infrastructure will be carried out at specified regular intervals to evaluate the performance of the TMF and confirm regulatory compliance. Regular inspections of the TMF and associated infrastructure will be completed as part of the TMF operations to confirm that the TMF is being operated in accordance with the design intent.

Seepage from the TMF will be collected in the seepage collection system which will consist of drains and sumps. Water collected in the seepage collection sumps will be sampled at regular intervals, which will determine if the water will be transferred back into the TMF using a pump back system or if is suitable for release to the environment (i.e., meets the discharge criteria defined in the Industrial Approval). Water in the TMF polishing pond and receiving environment downstream will also be monitored regularly to confirm regulatory compliance.

4.4.3 Monitoring of Historic Tailings Not Directly Disturbed by the Project

Based on the water balance analysis and hydraulic modelling completed for the Project (GHD, 2022b; GHD, 2022e), there is an expected increase of water levels in Gold Brook from baseline to West Pit End of Mine (EOM) based on the under low flow conditions (defined as 10th percentile flows). The predicted increase in water levels at West Pit EOM under low flow conditions is within the range observed in baseline. For average flow conditions, the maximum difference in water levels between baseline and West Pit EOM is considered negligible. Considering the predicted increase in water levels at West Pit EOM under low flow conditions it is unlikely that any new areas of historic tailings within the sediments of Gold Brook will be exposed as a result of the Project.

Surface water and groundwater in the vicinity of the historic tailings areas will be monitored over the duration of the Project as detailed in the Water Monitoring Plan developed for the Project (GHD, 2022a). Groundwater elevations will be monitored in existing wells located between the open pits and the historic tailings areas to provide an early indicator of potential reduction of groundwater contribution to Gold Brook and surrounding wetlands. If a reduction in groundwater elevations is observed that is greater than minimum predicted groundwater elevations, and there is an increase in constituent concentrations in surface water approaching applicable regulatory standards (Canadian Council of Ministers of the Environment (CCME) Water Quality Guidelines for the Protection of Aquatic Life, NS Tier 1 EQS, or Site-Specific Water Quality Guidelines (SSWQG)), Anaconda will implement an adaptive management approach. Additional mitigation measures that could be undertaken include excavation and transportation of dewatered tailings material to the TMF and covering disturbed tailings with a low permeability cover.

4.5 Reporting

Remediation of historic tailings will be documented and recorded for planning purposes and will include the following information:

- Confirmatory sampling results and laboratory certificates.
- Photos of the excavation, transport, and placement of the material.
- The delineation points used to determine extent of excavated historic tailings.
- Volumes of the removed material.
- Groundwater sampling results and water levels.

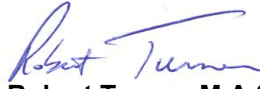
External reporting provided to NSECC will be completed in accordance with the Nova Scotia *Confirmation of Remediation Protocol* (PRO-700). A Remedial Action Plan in accordance with Nova Scotia PRO-600 will also be completed prior to Project development. Additional reporting requirements may be required by the Project's Industrial Approval.

5. Closure

All of which is respectfully submitted



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6. Limitations

This report: has been prepared by GHD for Anaconda Mining Inc. and may only be used and relied on by Anaconda Mining Inc. for the purpose agreed between GHD and Anaconda Mining Inc. as set out in this report.

GHD otherwise disclaims responsibility to any person other than Anaconda Mining Inc. arising in connection with this report. GHD also excludes implied warranties and conditions, to the extent legally permissible.

The services undertaken by GHD in connection with preparing this report were limited to those specifically detailed in the report and are subject to the scope limitations set out in the report.

The opinions, conclusions and any recommendations in this report are based on conditions encountered and information reviewed at the date of preparation of the report. GHD has no responsibility or obligation to update this report to account for events or changes occurring subsequent to the date that the report was prepared.

The opinions, conclusions and any recommendations in this report are based on assumptions made by GHD described in this report. GHD disclaims liability arising from any of the assumptions being incorrect.

7. References

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GHD. 2022b. Water Balance Analysis Summary Report, Goldboro Gold Project. May 2022.

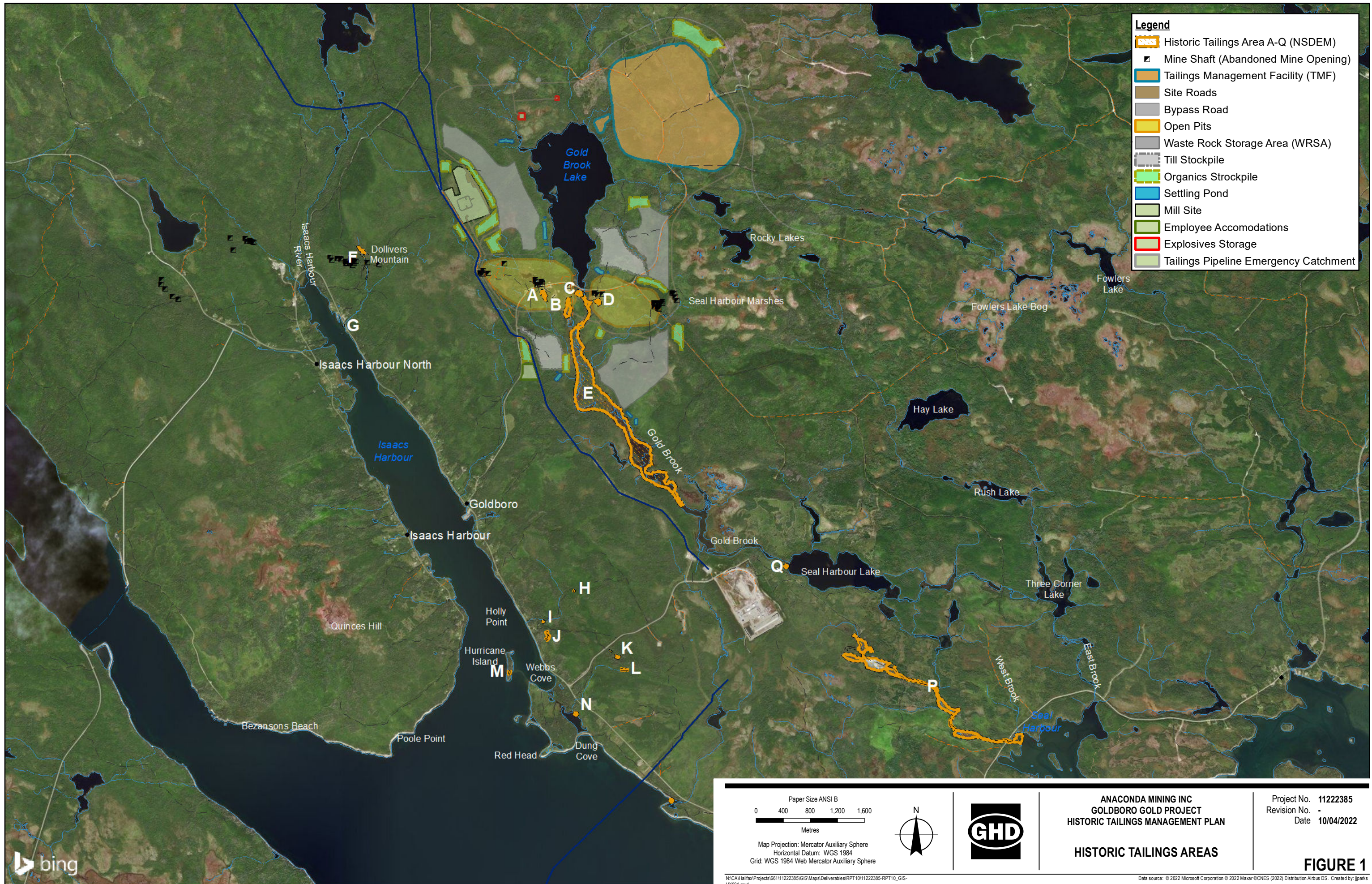
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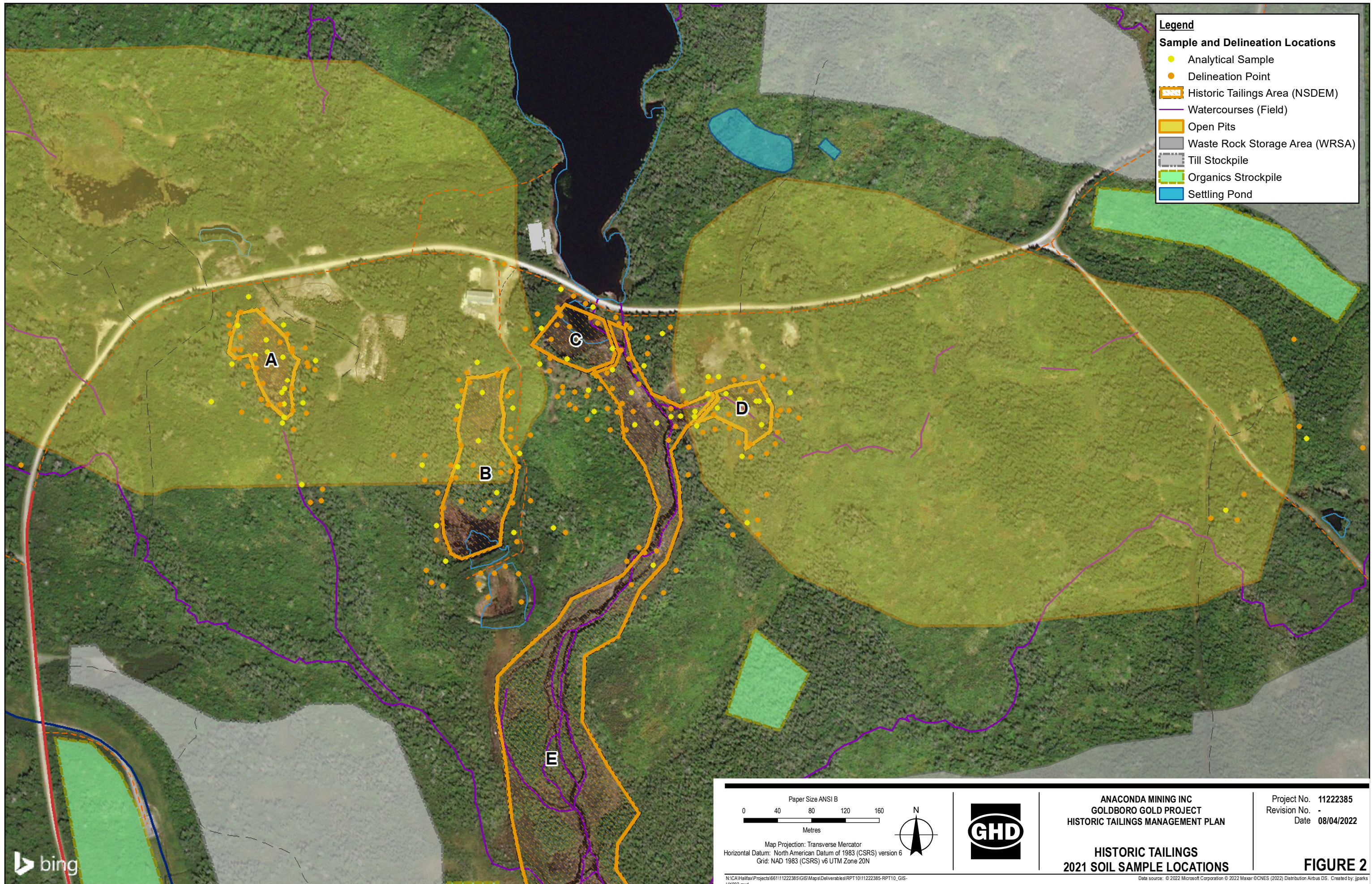
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- Legend**
- Historic Tailings Area A-Q (NSDEM)
 - Mine Shaft (Abandoned Mine Opening)
 - Tailings Management Facility (TMF)
 - Site Roads
 - Bypass Road
 - Open Pits
 - Waste Rock Storage Area (WRSA)
 - Till Stockpile
 - Organics Stockpile
 - Settling Pond
 - Mill Site
 - Employee Accomodations
 - Explosives Storage
 - Tailings Pipeline Emergency Catchment

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|---|--|--|--|---|
| Paper Size ANSI B 0 400 800 1,200 1,600 Metres | | | ANACONDA MINING INC GOLDBORO GOLD PROJECT HISTORIC TAILINGS MANAGEMENT PLAN | Project No. 11222385 Revision No. - Date 10/04/2022 |
| Map Projection: Mercator Auxiliary Sphere Horizontal Datum: WGS 1984 Grid: WGS 1984 Web Mercator Auxiliary Sphere | | | HISTORIC TAILINGS AREAS | FIGURE 1 |





Legend

Sample and Delineation Locations

- Analytical Sample
- Delineation Point
- Historic Tailings Area (NSDEM)
- Watercourses (Field)
- Open Pits
- Waste Rock Storage Area (WRSA)
- Till Stockpile
- Organics Stockpile
- Settling Pond

Paper Size ANSI B

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Metres

Map Projection: Transverse Mercator
Horizontal Datum: North American Datum of 1983 (CSRS) version 6
Grid: NAD 1983 (CSRS) v6 UTM Zone 20N

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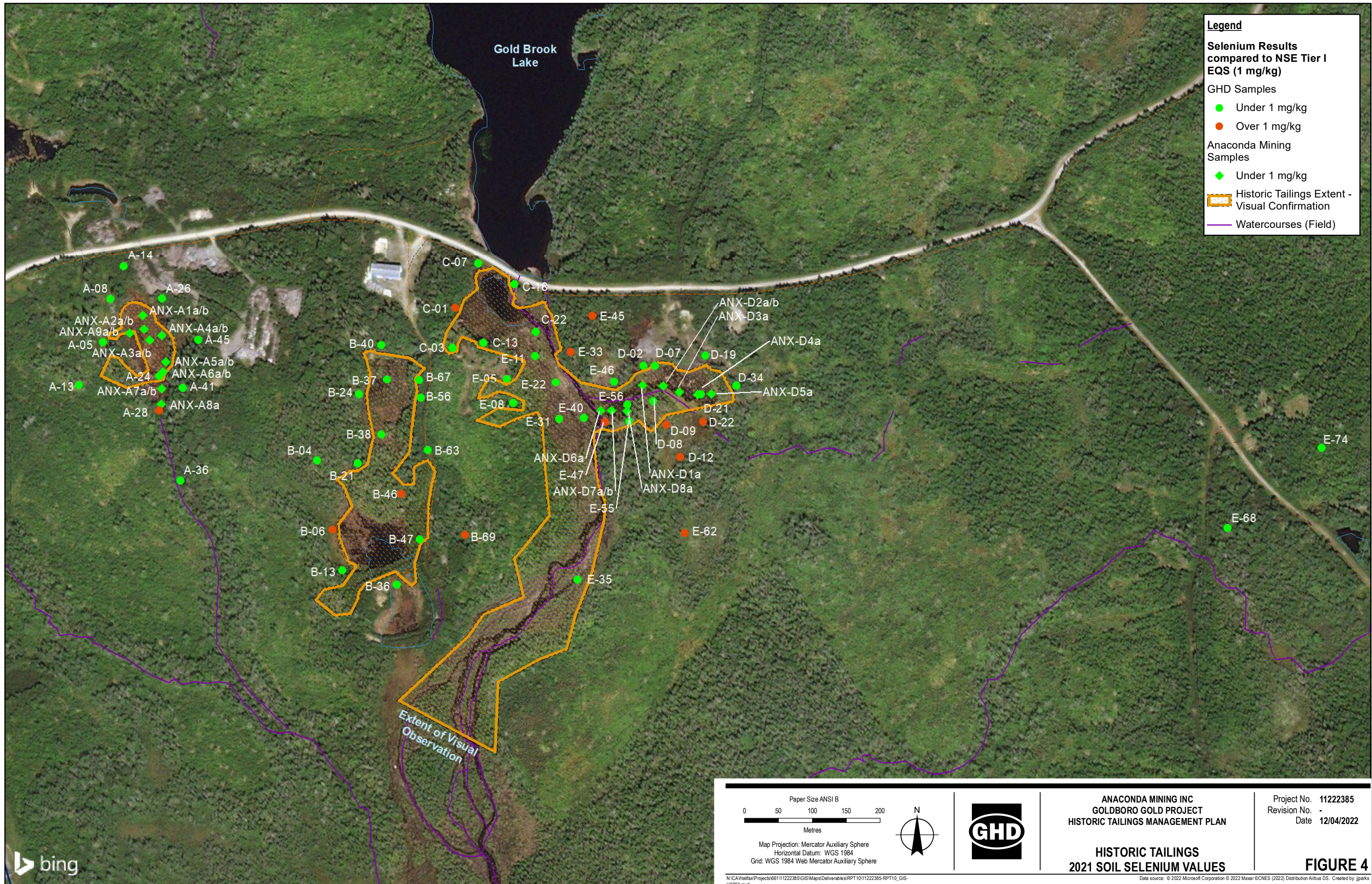
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GOLDBORO GOLD PROJECT
HISTORIC TAILINGS MANAGEMENT PLAN

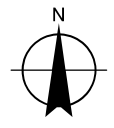
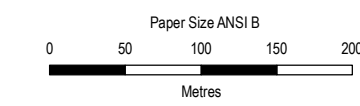
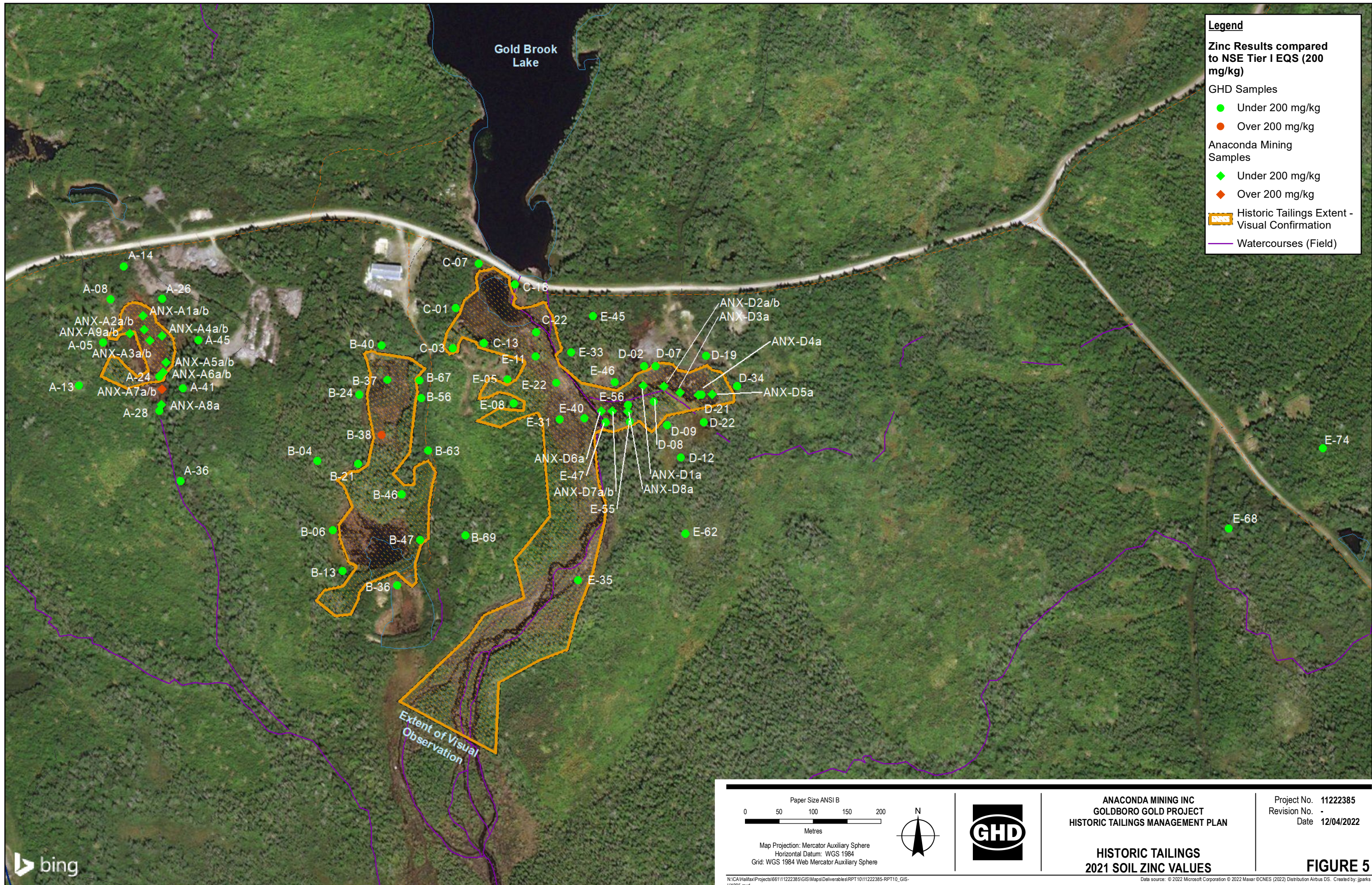
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**HISTORIC TAILINGS
2021 SOIL SAMPLE LOCATIONS**

FIGURE 2







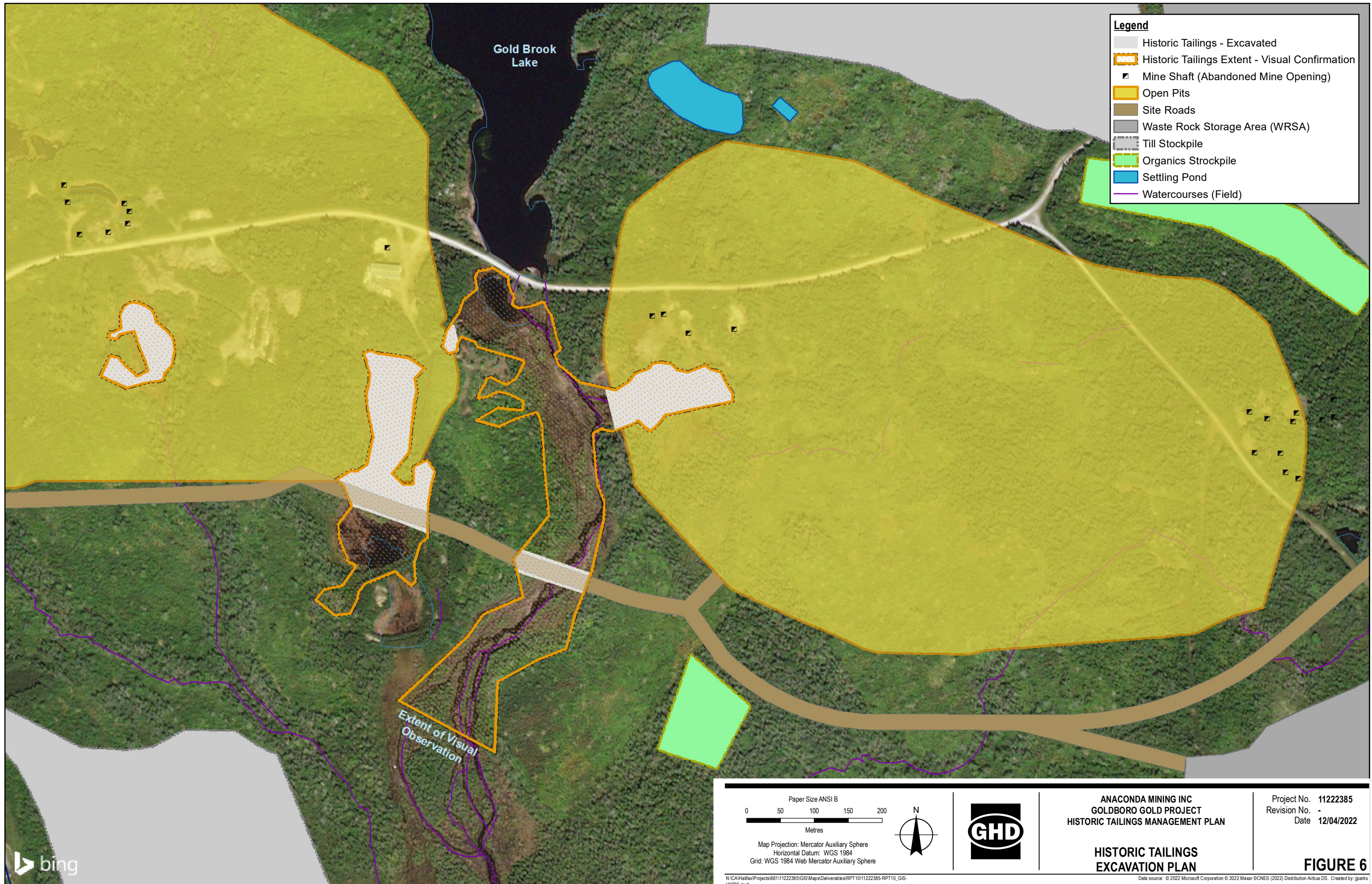
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 Revision No. -
 Date 12/04/2022

**HISTORIC TAILINGS
 2021 SOIL ZINC VALUES**

FIGURE 5

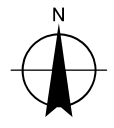
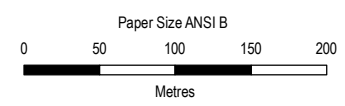
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- Legend**
- Historic Tailings - Excavated
 - Historic Tailings Extent - Visual Confirmation
 - Mine Shaft (Abandoned Mine Opening)
 - Open Pits
 - Site Roads
 - Waste Rock Storage Area (WRSA)
 - Till Stockpile
 - Organics Stockpile
 - Settling Pond
 - Watercourses (Field)

Gold Brook Lake

Extent of Visual Observation



ANACONDA MINING INC
 GOLDBORO GOLD PROJECT
 HISTORIC TAILINGS MANAGEMENT PLAN

Project No. 11222385
 Revision No. -
 Date 12/04/2022

**HISTORIC TAILINGS
 EXCAVATION PLAN**

FIGURE 6



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