



**REPORT**

**Factual Investigation Report, Troilus Mine, Quebec.**  
*Feasibility Study*

Submitted to:

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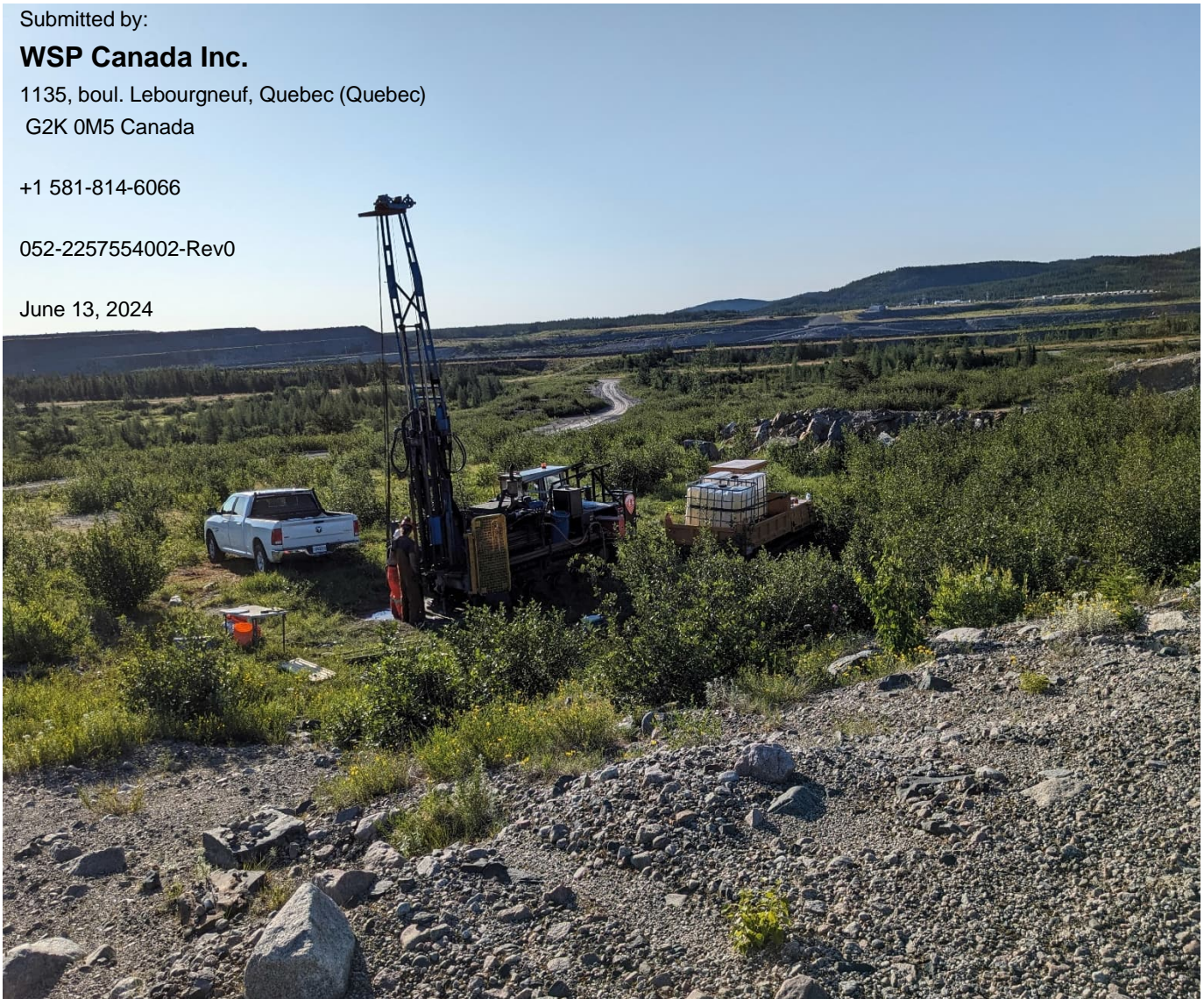
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## 1.0 INTRODUCTION

WSP Canada Inc. (WSP) was retained by Troilus Gold Corporation (Troilus) to complete a geotechnical investigation and prepare a factual technical memorandum summarizing the results of the field investigation for their Troilus Gold Mine Project in northwestern Quebec.

This report presents the results of the drilling, sampling and laboratory testing completed and identifies the soil and groundwater profiles encountered during the drilling program.

## 2.0 SITE AND PROJECT DESCRIPTION

The Troilus Mine site is located approximately 120 km north of Chibougamau, Quebec, as shown in Figure A1 in Appendix A. The purpose of the geotechnical field investigation was as follows:

- Acquire information regarding the stratigraphy and geotechnical properties of the subsurface and rock to support the feasibility study (FS) within and around the following structures:
  - Waste dump pads.
  - Overburden stockpiles.
  - J4 Zone, Southwest, X22 and 87 Pits.
  - Lake A.
  - TSF.
  - Diversion Channel.
  - Eskers.
- Installation of monitoring wells.

## 3.0 GEOTECHNICAL FIELD INVESTIGATION

The geotechnical investigation was carried out in different periods in 2023:

- The winter investigation was carried out between March 27 and April 4, 2023 (16 boreholes and 1 monitoring well).
- The summer investigation was carried out:
  - between July 20 and July 30, 2023, for the boreholes (22 boreholes and 1 monitoring well), and
  - between September 6 and September 7, 2023 (3 test pits).
- The fall investigation was carried out between September 27 and September 29, 2023 (17 manual auger drilling).

A total of forty (40) boreholes were advanced to depths between 2.68 m and 24.53 m below ground surface (BGS) and monitoring wells were installed in two (2) of these boreholes. A total of seventeen (17) manual auger drilling and three (3) test pits were advanced to depths ranging from 0.55 m and 5.00 m BGS.

Boreholes drilled for the Process plant study are not mentioned in this report. Fieldwork for the Process Plant investigation is covered in another report (WSP, 2024).

Winter fieldwork was supervised by a member of WSP's technical staff. Summer and fall fieldwork was monitored by a BluMetric Environmental Inc. (BluMetric) representative for the drilling and manual auger subcontracted by Troilus and by a member of WSP's technical staff for the test pits. They supervised drilling and excavation for test

pits, sampled and described the soil and cored bedrock. Soil and rock samples were placed in appropriate moisture-proof plastic bags and core boxes, respectively, labelled and transported to WSP's Sudbury and Montreal geotechnical laboratories where the samples were visually examined and select samples were scheduled for laboratory testing (water content, grain size distribution and Atterberg limit tests, as applicable). No laboratory testing was undertaken for rock samples.

The boreholes were advanced using a track-mounted drill rig supplied and operated by Forages Pelletier Ltd. of Chapais, Quebec. The boreholes were advanced using the rotating drilling method within the soil unit (NW casing of 88.9 mm, respectively) and coring within the rock unit (NQ core of 75.7 mm, respectively). Soil samples were obtained at varying intervals using 50-millimetre-outer-diameter split-spoon samplers and a full-weight automatic hammer, in accordance with Standard Penetration Testing (SPT) procedures (ASTM D1586). The split-spoon samplers used in the investigation limited the maximum particle size that could be sampled and tested to about 35 mm. Therefore, particles or objects larger than this dimension that may exist within the soils would not be sampled or represented in the grain size distribution. The results of the in situ field tests (i.e., SPT "N"-values) as presented on the borehole records are the values measured directly in the field and are unfactored.

A borehole diameter of up to 88.9 mm was drilled for the installation of each monitoring well. The two monitoring wells were equipped with a 38 mm diameter PVC screw-jointed blank casing, with 0.25 mm factory-slotted screens. For all monitoring wells, a gravel pack of grade 1 washed-and-graded gravel was placed in the annulus of the borehole around the screen section to an elevation of at least 0.5 m above the top of the screen where possible, which was then sealed with bentonite pellets or bentonite chips. The annular space between the bentonite plug and surface was sealed with bentonite pellets/chips or grouted with a mix of 5% bentonite powder with cement. A protector and well cap were installed around each monitoring well. The boreholes not completed as monitoring wells were backfilled using a cement-bentonite grout.

The manual surveys were advanced within the soil using a manual auger supplied and operated by BluMetric. Soil samples were obtained at varying intervals.

The test pits were advanced within the overburden using a CAT 318CL excavator supplied and operated by Forage Chibougamau from Chibougamau, Quebec. The test pits were supervised by WSP. Soil samples were obtained at varying intervals using the bucket of the excavator.

Final boreholes, manual surveys, test pits and monitoring well locations were surveyed in the field by Troilus Mine staff and BluMetric.

### **3.1 Drilling and Sampling**

In the vicinity of the above-mentioned areas, a total of forty (40) boreholes were advanced to depths between 2.68 m and 19.59 m below ground surface (BGS) as presented in Table 1. At the borehole locations mentioned in Table 1, soil samples were obtained using split-spoon samplers at intervals of 0.75 m to 3 m BGS and every 1.5 m thereafter. Soil descriptions, samples collected and select soil testing results are presented in the Record of Boreholes included in Appendix B. A monitoring well was installed in the MW-23-24 and MW-23-25 boreholes. The design of the installation of these two monitoring wells is described in Table 2 and the well logs are presented in Appendix B.

**Table 1: Summary of Completed Boreholes by Site Locations (UTM Nad83)**

Borehole	Northing (m)	Easting (m)	Ground Elevation (m ASL)	Total Depth (m BGS)	Location / Area
BH-23-15	5648377.1	535342.7	377	6.19	Esker
BH-23-16	5648302.9	535287.2	377	7.11	Esker
BH-23-17	5648505.1	535229.7	375	5.19	Esker
BH-23-18	5649082.0	535396.5	371	14.40	Gap Zone
BH-23-19	5649842.4	536237.7	370	10.75	TSF
BH-23-20	5650226.7	537082.8	387	24.53	TSF
BH-23-21	5653538.6	539086.2	353	19.59	Lake A
BH-23-22	5654004.1	538729.6	361	3.68	Lake A
BH-23-23	5647519.8	534203.6	382	12.10	-
BH-23-26	5648038.7	533726.3	383	10.75	Southwest
BH-23-36	5651054.7	535842.6	373	5.84	Gap Zone
BH-23-38	5651582.5	536311.3	379	16.75	J Waste Dump
BH-23-39	5651621.6	536694.3	379	24.04	87 Pit – J Zone Pit
BH-23-40	5651903.8	536318.7	382	6.45	J4 Waste Dump
BH-23-41	5652418.4	536589.5	379	3.19	87 Pit – J Zone Pit
BH-23-42	5652881.6	536944.8	375	3.13	87 Pit – J Zone Pit
BH-23-43	5652041.5	537551.2	372	11.82	87 Pit – J Zone Pit
BH-23-44	5653385.0	537930.3	362	5.84	J Overburden Pile
BH-23-45	5654207.7	538267.1	362	6.59	Lake A
BH-23-46	5653819.4	538572.4	360	3.87	Lake A
BH-23-47	5653121.4	538307.0	378	13.45	Lake A
BH-23-48	5652886.7	538731.9	354	7.16	Lake A
BH-23-50	5652482.3	539865.8	358	6.09	Lake A
BH-23-51	5652140.5	539356.3	358	9.22	Lake A
BH-23-52	5652272.9	539830.2	357	10.76	Lake A
BH-23-53	5651762.6	538991.0	370	12.28	87 Waste Dump
BH-23-56	5651351.2	538636.5	377	4.88	87 Waste Dump
BH-23-59	5650848.4	538119.0	386	4.59	87 Pit – J Zone Pit
BH-23-71	5653522.2	537296.2	380	4.75	Diversion Channel
BH-23-72	5653836.7	537693.0	383	12.23	Diversion Channel
BH-23-73	5654148.3	538081.6	370	7.79	Diversion Channel
BH-23-74	5653949.1	539211.4	355	3.01	Diversion Channel
BH-23-75	5652688.0	540273.7	353	9.24	87 Overburden Pile
BH-23-77	56473978	535043.5	411	4.90	Southwest Overburden Pile
BH-23-78	5647040.9	534177.8	400	4.12	Southwest Overburden Pile
BH-23-79	5647688.8	534774.8	396	16.79	Southwest Pit
BH-23-80	5647945.8	535179.6	389	2.68	TSF
BH-23-88	5652460.6	540052.5	354	6.26	Northwest Overburden Pile
MW-23-24	5647456.2	533257.1	380	10.44	Southwest
MW-23-25	5653238.5	539044.3	353	18.05	Lake A

**Table 2: Summary of Monitoring Well Design**

Borehole	MW-23-24	MW-23-25
Date installed	2023-07-29	2023-04-01
Stickup (m AGS)	0.82	1.52
Bore depth (m BGS)	10.44	18.36
PVC elevation (m)	381.65	354.05
Bottom sand pack and bottom screen (m BGS)	10.44	18.36
Top sand pack (m BGS)	8.00	13.00
Top screen (m BGS)	8.94	15.31
Screen interval (m BGS)	1.52	3.05

### 3.2 Manual Surveys, Test Pits and Sampling

In the vicinity of the above-mentioned areas, a total of seventeen (17) manual surveys and three (3) test pits were advanced to depths between 0.55 and 5.00 m below ground surface (BGS) as presented in Table 3. At the manual survey and test pit locations mentioned in Table 3, soil samples were obtained using a manual auger or an excavator CAT318CL. Soil descriptions, samples collected and select soil testing results are presented in the Record of Boreholes included in Appendix B.

**Table 3: Summary of Completed Manual Surveys and Test Pits by Site Locations (UTM Nad83)**

Trenches	Northing (m)	Easting (m)	Ground Elevation (m ASL)	Total Depth (m BGS)	Location / Area
TM-23-14	5647916	533258	379	2.60	Southwest
TM-23-27	5648900	534100	377	1.60	Southwest
TM-23-28	5648929	534842	375	2.05	Southwest
TM-23-29	5649308	534402	375	0.55	Southwest
TM-23-31	5649696	535269	371	1.70	Gap Zone
TM-23-32	5649948	534812	376	1.85	Gap Zone
TM-23-33	5650283	535819	380	2.15	Gap Zone
TM-23-34	5650530	535416	378	2.70	Gap Zone
TM-23-35	5650515	536493	378	3.00	Gap Zone
TM-23-37	5650632	536177	371	2.70	J Waste Dump
TM-23-49	5652856	539382	365	0.95	Lake A
TM-23-54	5651769	539389	362	3.00	87 Waste Dump
TM-23-55	5651422	539833	376	0.85	87 Waste Dump
TM-23-57	5651196	538949	380	1.60	87 Waste Dump
TM-23-58	5651040	539200	373	3.00	87 Waste Dump
TM-23-86	5653748	538751	353	2.20	Northwest Overburden Pile
TM-23-87	5653563	538691	355	1.80	Northwest Overburden Pile
TP-23-90	5648121	534679	376	4.50	Esker
TP-23-91	5647479	534126	386	4.50	Esker
TP-23-92	5647699	534273	380	5.00	Esker

### 3.3 Laboratory Testing

All samples collected during the field drilling, manual surveys and test pits were returned to WSP's Montreal laboratory (unless otherwise noted) for further analysis testing. The tests conducted during the WSP laboratory program included:

- Combined Sieve Hydrometer Particle Size Distribution to ASTM C136.
- Moisture Content Tests to ASTM D2216.
- Liquid Limit, Plastic Limit, and Plasticity Index Soils to ASTM D4318.
- Density and Specific Gravity to ASTM D792.
- Laboratory Compaction Characteristics of Soil to ASTM D698-12.

Laboratory testing included moisture contents and particle-size distribution testing on split-spoon samples. The moisture content tests are shown in the Record of Boreholes, and the manual survey and test pit sheets are included in Appendix B. The grain-size distribution curves are included in Appendix C.

### 3.4 Soil Profile Encountered

The general stratigraphy encountered consisted of backfill/fill or thin surficial peat and organic silt ranging in gradation from silty sand to silt and sand, with varying amounts of gravel and traces of clay, underlain by alluvium deposits ranging in gradation from silty sand to sandy silt, with traces of clay and gravel, and by compact glacial till deposits, ranging in gradation from silty sand to sandy silt, with varying amounts of gravel, and the presence of cobbles and boulders. Some stratigraphy encountered consisted of an esker deposit of sand with varying amounts of gravel. The bedrock in the area primarily consists of an intermediate volcanic rock with isolated areas of granite, diorite, and mafic volcanic rock. The bedrock was encountered at depths between 0.44 and 23.01 m BGS. A record of subsurface conditions observed during drilling can be found in the Record of Boreholes sheets included in Appendix B. The following table presents a summary of the soil profile encountered in each borehole.

**Table 4: Summary of the Soil Profile Encountered**

ID	Soil Units Encountered (recorded as m BGS)							
	Backfill / Fill	Superficial Organic Silt and Peat	Alluvium	Glacial Till	Esker	Cobbles and Boulders	Bedrock	Termination Depth
BH-23-15	0.00 - 1.52	-	1.52 – 4.14			-	4.14	6.19
BH-23-16	-		0.00 - 2.29		2.29 - 5.37	4.80 - 5.37	5.37	7.11
BH-23-17	-	0.00 - 0.77	0.77 - 3.51	-	-	-	3.51	5.19
BH-23-18	-	0.30 - 0.72	0 - 0.30 0.99 - 1.52	1.52 - 10,14	-	10.14 - 11.68	11.68	14.40
BH-23-19	-	0.00 - 0.82	0.82-4.88	-	-	-	8.44	10.75
BH-23-20	-	-	-	0.00 - 14.37 18.30 - 23.01	-	14.37 - 18.30	23.01	24.58
BH-23-21	-	0.00 - 1.98	1.98 - 13.38	-	-	13.38 - 16.50	16.50	19.59
BH-23-22	-		0,00 - 1.83		-	-	1.83	3.68
BH-23-23	-	-	-	-	0.00 - 2.57	2.57-9.80	9.8	12.1
BH-23-26	-	0.00 - 1.52	1.91-3.05	3.05-7.14	-	1.52 - 1.91 7.14 - 7.72	7.72	10.75
BH-23-36	-	0.00 - 0.76	-	0.76 - 2.82	-	-	2.82	5.84
BH-23-38	0.00 - 6.10	-	-	6.10 -14.62	-	-	14.62	16.75
BH-23-39	0.00 - 8.45	-	8.45 - 17.63	17.63-19.77	-	19.77 - 22.51	22.51	24.04
BH-23-40	-	0.00 - 0.12	-	0.12 - 4.27	-	4.27 - 4.75	4.75	6.45
BH-23-41	-	0.00 - 0.61	0.61 - 1.22	1.22 - 1.61		1.61 - 1.89	1.89	3.19

ID	Soil Units Encountered (recorded as m BGS)							
	Backfill / Fill	Superficial Organic Silt and Peat	Alluvium	Glacial Till	Esker	Cobbles and Boulders	Bedrock	Termination Depth
BH-23-42	-	0.00 - 0.71	0.71 - 1.22	-	-	-	1.22	3.13
BH-23-43	0.00 - 7.62	-	-	7.62 - 9.30	-	-	9.3	11.82
BH-23-44	-	0.00 - 0.45	-	0.45 - 1.82	-	-	1.82	5.84
BH-23-45	-	0.00 - 0.76	-	0.76 - 3.81	-	3.81 - 4.26	4.26	6.59
BH-23-46	-	0.00 - 0.76	-	0.76 - 1.86	-	-	1.86	3.87
BH-23-47	-	-	-	0.00 - 11.20	-	-	11.20	13.45
BH-23-48	-	0.00-1.37	-	1.37 - 5.13	-	-	5.13	7.16
BH-23-50	0.00 - 1.83	-	1.83 - 2.29	-	-	2.29 - 4.32	4.32	6.09
BH-23-51	-	0.00 - 0.15	0.15 - 3.66 4.71 - 6.23	-	-	3.66 - 4.71	6.23	9.22
BH-23-52	-	0.00 - 0.06	0.06 - 9.15	-	-	-	9.15	10.76
BH-23-53	-	0.00 - 0.61	0.61 - 9.76	-	-	9.76 - 10.26	10.26	12.28
BH-23-56	-	-	0.00 - 3.68	-	-	-	3.68	4.88
BH-23-59	0.00 - 1.58	-	-	1.58 - 2.50	-	-	2.50	4.60
BH-23-71	-	0.00 - 1.22	-	1.22 - 3.05	-	-	3.05	4.75
BH-23-72	-	0.00 - 0.61	-	0.61 - 10.32	-	-	10.32	12.23
BH-23-73	-	0.00 - 0.14	-	0.14 - 6.26	-	-	6.26	7.79
BH-23-74	-	0.00 - 0.61	-	-	-	0.61-0.73	0.73	3.01
BH-23-75	-	0.00 - 0.61	0.61-4.88	6.10-6.49	-	4.88-6.10	6.49	9.24
BH-23-77	-	0.00 - 0.61	-	0.61 - 3.37	-	-	3.37	4.80
BH-23-78	-	-	-	0.00 - 2.47	-	-	2.47	4.12
BH-23-79	-	-	-	0.61 - 16.10	-	-	16.10	16.79
BH-23-80	-	0.00 - 0.61	-	0.61-1.35	-	-	1.35	2.68
BH-23-88	-	0.00 - 0.08	0.08 - 4.07	-	4.07-4.88	-	4.88	6.26
MW-23-24	-	0.00 - 0.61	0.61 - 2.44	2.44-6.73	-	-	6.73	10.44
MW-23-25	-	0.00 - 1.36	1.36 - 12.49	-	-	-	12.49	18.05

ID	Soil Units Encountered (recorded as m BGS)							
	Backfill / Fill	Superficial Organic Silt and Peat	Alluvium	Glacial Till	Esker	Cobbles and Boulders	Bedrock	Termination Depth
TM-23-14	-	0.00 - 1.40	1.40 - 2.60	-	-	-	-	2.60
TM-23-27	-	0.00 - 1.60	-	-	-	-	-	1.60
TM-23-28	-	0.00 - 0.20	0.20-0.65	0.65-2.05	-	-	2.05	2.05
TM-23-29	-	0.00 - 0.15	-	0.15 - 0.55	-	-	0.55	0.55
TM-23-31	-	0.00 - 1.70	-	-	-	-	-	1.70
TM-23-32	-	0.00 - 0.65	-	0.65 - 1.85	-	-	-	1.85
TM-23-33	-	0.00 - 0.04	0.04 - 0.90	0.90 - 2.15	-	-	-	2.15
TM-23-34	-	-	0,00 - 1,50	1.50 - 2.70	-	-	-	2.70
TM-23-35	-	-	0,00 - 0,08	0,80 - 3,00	-	-	-	3.00
TM-23-37	-	0.00 - 0.20	0.20 - 1.10	1.10 - 2.70	-	-	-	2.70
TM-23-49	-	0.00 - 0.15	-	0.15 - 0.95	-	-	-	0.95
TM-23-54	-	0.00 - 0.15	0.15 - 3.00	-	-	-	-	3.00
TM-23-55	-	0.00 - 0.04	0.04 - 0.85	-	-	-	0.85	0.85
TM-23-57	-	0.00 - 0.10	0.10 - 1.60	-	-	-	1.60	1.60
TM-23-58	-	0.00 - 0.60	0.60 - 0.90	0.90 - 3.00	-	-	-	3.00
TM-23-86	-	0.00 - 0.10	0.10 - 1.15	1.15 - 2.20	-	-	-	2.20
TM-23-87	-	0.00 - 0.10	0.10 - 1.80	-	-	-	-	1.80
TP-23-90	-	0.00 - 0.10	0.10 - 4.50	-	-	-	-	4.50
TP-23-91	-	-	-	-	0,00 - 4.50	-	-	4.50
TP-23-92	-	-	-	-	0,00 - 5,00	-	-	5.00

### 3.4.1 Organic Silt and Peat

Twenty-six (26) of the boreholes, fifteen (15) of the manual surveys and one (1) of the test pits completed encountered superficial deposits of organic silt and peat at the surface. Where present, the superficial organic silt and peat depth ranged from 0.04 to 1.98 m. Borehole BH-23-18 encountered a 0.42 m thick organic silt layer below the fill at a depth of 0.30 m BGS.

Uncorrected SPT 'N' values ranged from 1 to 60.

Water contents measured on samples of the organic silt and peat ranged from 8% to 498%. Water content and particle size distribution tests determined by hydrometer/sieve analysis were completed on five (5) samples of the material identified as organic silt and peat and the results are presented in Figure D1 in Appendix D.

### 3.4.2 Backfill / Fill

Six (6) of the boreholes completed encountered backfill/fill material at the surface that was composed of overburden waste or sand, with varying amounts of gravel, with a thickness varying between 1.52 and 8.45 m.

Uncorrected SPT 'N' values ranged from 8 to 29.

Water contents measured on samples of the backfill/fill ranged from 2% to 10%.

### 3.4.3 Alluvium

Twenty (20) of the boreholes, twelve (12) of the manual surveys and one (1) of the test pits completed encountered a non-cohesive, loose deposit of sandy silt with a thickness varying between 0.30 and 11.40 m. Uncorrected SPT 'N' values typically ranged from 1 to refusal. This material is consistent with a glaciofluvial soil deposit.

Particle size distribution tests determined by hydrometer/sieve analysis were completed on 34 samples of the non-cohesive deposit of sandy silt, and the combined results are presented in Figure D2 in Appendix D.

### 3.4.4 Glacial Till

Twenty-five (25) of the boreholes and ten (10) of the manual surveys encountered non-cohesive glacial till deposits with a highly variable gradation ranging from silty sand to sandy silt, with varying amounts of gravel, at depths of 0.39 m BGS and 16.10 m BGS. Uncorrected SPT 'N' values were highly variable and ranged from 1 to refusal.

Water contents measured on samples of the non-cohesive glacial till deposits ranged from 4% to 48%. Particle size distribution tests determined by hydrometer/sieve analysis were completed on 25 samples of the non-cohesive glacial till, and the combined results are presented in Figure D3 in Appendix D.

### 3.4.5 Esker

Three (3) of the boreholes and two (2) of the test pits encountered a non-cohesive esker deposit with a highly variable gradation ranging from sand to gravel, at depths of 0.81 m BGS and 5.00 m BGS. Uncorrected SPT 'N' values were highly variable and ranged from 14 to a refusal.

Water contents measured on samples of the non-cohesive esker deposit ranged from 4% to 9%. Particle size distribution tests determined by hydrometer/sieve analysis were completed on 4 samples of the non-cohesive glacial till, and the combined results are presented in Figure D4 in Appendix D.

## 3.5 Groundwater Well Development

The monitoring wells were developed following their installation. A Waterra pump was used at each monitoring well to develop their capacity. Well development was completed prior to hydraulic testing. Generally, a minimum of 3 well volumes were removed from each monitoring well.

Field parameters for groundwater quality were monitored during development and purging to quantify when drilling influences had been removed from the monitoring well and groundwater was representative of the aquifer screened by the well. The wells were considered developed when purge water was free of sediment and/or the following characterization was made:

- pH considered stabilized within 0.2 units of change.
- Electrical conductivity (EC) considered stabilized within 3% of change.
- There aforementioned parameters have at least 2 consecutive stable readings.

## 3.6 Hydraulic Testing

### 3.6.1 Methodology

In situ hydraulic testing using falling-head tests (FHT) was conducted by Troilus field staff in each of the 2 newly installed monitoring wells. The FHT test involved inducing a sudden change in the groundwater level within the bore casing by adding water equivalent to one well volume into the well and measuring the water-level response. When the addition of water is stopped, then the falling-head test starts. During this test, water in the casing is periodically measured.

The standing water level (SWL) was recorded before the FHT was initiated in each well or the hydraulic head (water level) was monitored until returned to within 90 percent of the SWL. A pressure transducer equipped with a built-in-programmable data logger (water-level probe) was installed in each monitoring well to obtain continuous water level measurements during the test recording at 0.5-second intervals. The water-level probe readings were confirmed by comparing manual measurements collected using a water-level meter. The objective of a hydraulic test is to estimate horizontal hydraulic conductivity of a water-saturated rock or soil formation intersected by the screened and gravelled segment of the monitoring well.

### 3.6.2 Analysis

FHT test data were analyzed using AQTESOLV Pro 4.5 which is an industry standard program widely used in the field of hydrogeology for hydraulic parameter estimation. Saturated horizontal hydraulic conductivity value calculated from FHT test data in each monitoring well are reported in Appendix E and Table 6. The hydraulic test data was analyzed by the Bouwer Rice (1976) solution method. Hydraulic conductivity is reported in metres per second (m/s) and is a measurement of how easily water can move through pore spaces in a geological formation.

The hydraulic test in the MW-23-25 showed irregular water-level response and the test was judged unreliable for interpretation. Such response is typically associated with a broken well casing within the ground. This monitoring well should be inspected to assess any defect.

**Table 5: Summary of Hydraulic Testing Results**

<b>Standpipe Piezometer ID</b>	<b>MW-23-24</b>	<b>MW-23-25</b>
Test date	2023-11-02	2023-11-03
Groundwater level (m BGS)	0.11	0.56
<b>Groundwater elevation (m ASL)</b>	380.14	352.29
Type of test	Slug test	Slug test
Test interval (m BGS)	8.00 - 10.44	13.00-18.36
Formation tested	Bedrock – Intermediate volcanic rock	Bedrock –Granite
Aquifer type	Confined	-
Test method	Falling head	Falling head
Analysis method	Bouwer-Rice	-
Hydraulic conductivity (m/s)	$2. \times 10^{-6}$	-

## 4.0 CLOSURE

We trust that this report is consistent with the objectives set out for the Project and meets the present requirements of Troilus. We thank you for the opportunity to be of service and welcome any comments or questions you may have.

# Signature Page

**WSP Canada Inc.**

**ORIGINAL SIGNED**

Florence Trudeau, CEP  
Project assistant – Mine Waste

**ORIGINAL SIGNED**

Anyssa Bertand-Locas, CEP  
*Mine Waste Management*

**ORIGINAL SIGNED**

Mathieu Gosselin, P.Eng., M.Sc.A., PMP  
*Geological Engineer*

FT/ABL/MG

[https://wsonline.sharepoint.com/sites/gld-169483/project files/6 deliverables/052-2257554002 factual geotechnical investigation report 2023/rev0/052-2257554002-rev0 factual geotechnical investigation\\_jun24.docx](https://wsonline.sharepoint.com/sites/gld-169483/project%20files/6%20deliverables/052-2257554002%20factual%20geotechnical%20investigation%20report%202023/rev0/052-2257554002-rev0%20factual%20geotechnical%20investigation_jun24.docx)

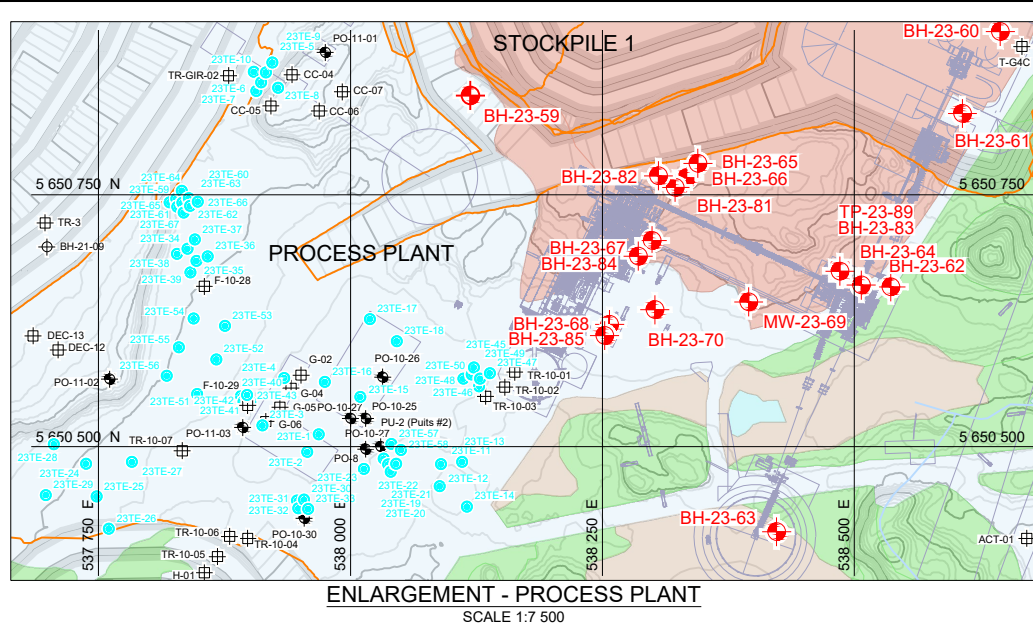
## REFERENCES

Bouwer, H. and Rice, R.C., 1976. A slug test for determining hydraulic conductivity of unconfined aquifers with completely or partially penetrating wells. *Water resources research*, 12(3), pp.423-428.

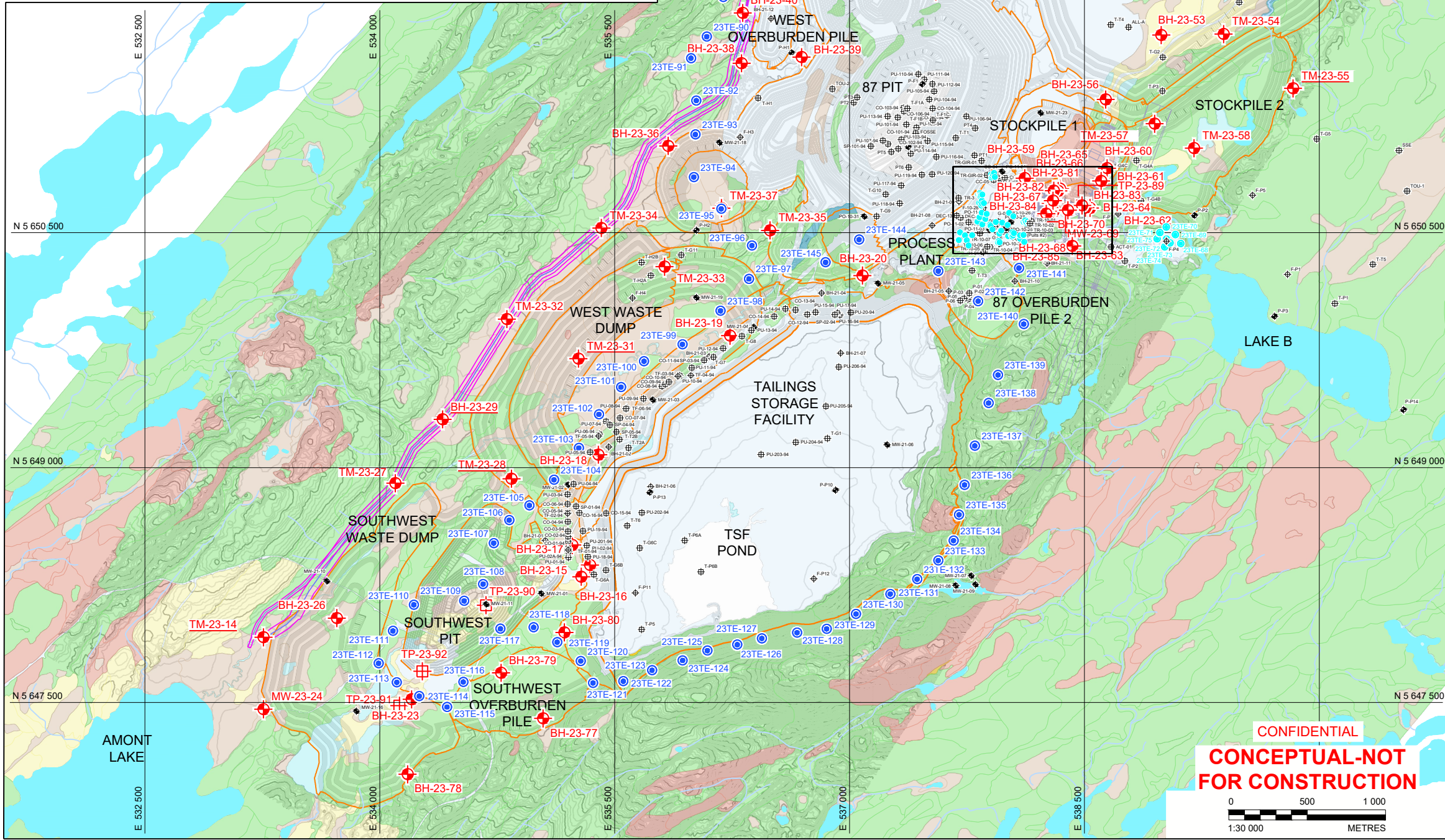
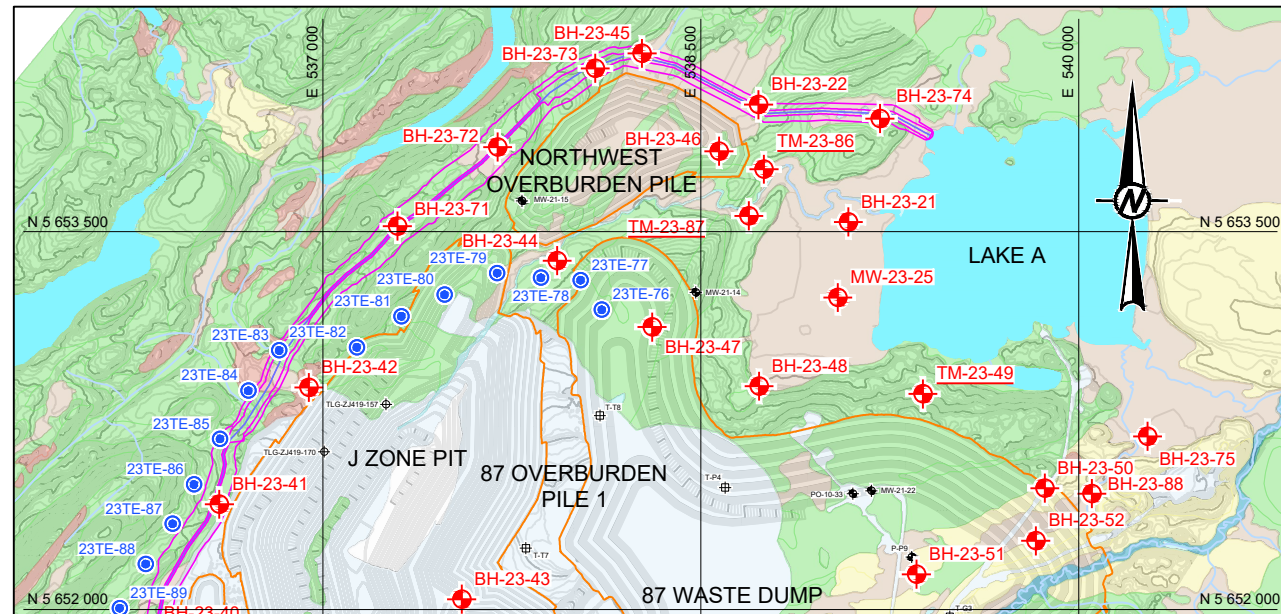
WSP Canada Inc. (WSP), 2024. Process Plant – Preliminary Geotechnical Investigation – Chibougamau, QC. WSP doc. Ref.: 045-22575540-Rev-0, dated June 2024.

**APPENDIX A**

**Site Layout**



ENLARGEMENT - PROCESS PLANT  
SCALE 1:7 500



**CONFIDENTIAL**  
**CONCEPTUAL-NOT FOR CONSTRUCTION**

**LEGEND**

- 2023 HAND AUGER (23TE-XX)
- 2023 ENVIRONMENTAL TEST PIT (TP-23-xx)
- ⊕ 2023 BOREHOLE (BH-23-XX OR MW-23-XX OR TM-23-XX)
- ⊕ 2023 GEOTECHNICAL TEST PIT (23TE-XX)
- ⊕ EXISTING BOREHOLE
- ⊕ EXISTING MONITORING WELL / OBSERVATION WELL
- ⊕ EXISTING SURVEY (TEST PIT OR OTHER)
- ⊕ EXISTING PIEZOMETER AND TEST PIT

**SEDIMENTARY UNIT**

<span style="background-color: #d3d3d3; border: 1px solid black; width: 20px; height: 10px; display: inline-block;"></span> ANTHROPIC	<span style="background-color: #808080; border: 1px solid black; width: 20px; height: 10px; display: inline-block;"></span> ORGANIC
<span style="background-color: #f5f5dc; border: 1px solid black; width: 20px; height: 10px; display: inline-block;"></span> ALLUVIUM	<span style="background-color: #a9a9a9; border: 1px solid black; width: 20px; height: 10px; display: inline-block;"></span> ROCK
<span style="background-color: #fffacd; border: 1px solid black; width: 20px; height: 10px; display: inline-block;"></span> JUXTAGLACIAL	<span style="background-color: #ffffff; border: 1px solid black; width: 20px; height: 10px; display: inline-block;"></span> NO DATA
<span style="background-color: #90ee90; border: 1px solid black; width: 20px; height: 10px; display: inline-block;"></span> GLACIAL TILL	<span style="color: blue;">●</span> LAKES

- NATURAL STREAMS
- DIVERSION CHANNEL ALIGNMENT
- DIVERSION CHANNEL OFFSET ZONE
- OVERBURDEN PILES, WASTE DUMPS AND MINE PITS LIMITS
- MINING COMPLEX INFRASTRUCTURE

- NOTE(S)**
- COORDINATES SYSTEM : UTM NAD 83, ZONE 18
  - STOCKPILES ARE NOT SHOWN BUT THE LARGE LG STOCKPILE WILL BE LOCATED EAST OF THE 87 WASTE DUMP.
  - X22 PIT HAS BEEN BACKFILLED WITH WASTE ROCK.
  - TAILINGS AND RECLAIM WATER PIPELINES CONNECTING THE PROCESSING PLANT TO THE TAILINGS STORAGE FACILITY ARE NOT REPRESENTED ON THE FIGURE.

- REFERENCE(S)**
- OVERBURDEN PILES, WASTE DUMPS AND MINE PITS LIMITS PROVIDED BY AGP, JANUARY 9, 2024.
  - MINE COMPLEXE INFRASTRUCTURE : DRAWING : "TROILUS - PLANT ONLY.dwg" PROVIDED BY LYCOPODIUM, APRIL 3, 2024.
  - CREEK ALIGNMENT/OFFSETS : DRAWINGS : "Option\_1\_alignment\_adjusted\_26A\_UTM.dwg" AND "option\_1\_8m\_offset\_for\_ditch\_fr\_UTM.dwg" DESIGNED BY WSP, RECEIVED FROM AGP ON APRIL 28-29, 2023.
  - HYDROLOGY : DRAWINGS "RH\_S\_CLIP\_UTM18.dwg", "RH\_L\_CLIP\_UTM18.dwg" OBTAINED FROM GÉOBASE DU RÉSEAU HYDROGRAPHIQUE DU QUÉBEC (GRHQ), MERN, GOUVERNEMENT DU QUÉBEC.
  - 2023 HAND AUGER AND ENVIRONMENTAL TEST PIT PROVIDED BY TROILUS GOLD CORP., MAY 28, 2024.

**CLIENT**  
TROILUS GOLD CORPORATION

**PROJECT**  
TROILUS MINE PROJECT  
FEASIBILITY STUDY

**TITLE**  
GEOTECHNICAL INVESTIGATION

<b>CONSULTANT</b>	YYYY-MM-DD	2024-06-06
	DESIGNED	B. Ousmane
	PREPARED	C. Pachis
	REVIEWED	M. Gosselin
	APPROVED	M. Ghali

<b>PROJECT NO.</b> 2257554005	<b>PHASE</b> 04	<b>REV.</b> 0	<b>FIGURE</b> 1
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Path: \\pds\pds\geomatics\SIG\CAD\PROJECTS\TROILUS GOLD CORPORATION\TROILUS\PRODUCTION\2257554005\04.dwg | Last Edited By: apachis | Date: 2024-06-06 | Time: 2:27:32 PM | Printed By: CPachis | Date: 2024-06-06 | Time: 3:10:45 PM

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM A4 (210 x 297 mm) TO A3 (297 x 420 mm)

**APPENDIX B**

**Record of Boreholes, Manual  
Surveys and Test Pits**



# BOREHOLE REPORT: BH-23-15

CLIENT: TROIILUS GOLD CORPORATION	DATE - BEG. / END: 2023-03-28
PROJECT: Troilus Feasibility Study	COORDINATES: N: 5,648,377.1 m E: 535,342.7 m UTM NAD83 Zone 18
PROJECT NO.: 2257554002	GROUND / TUBE ELEV.: 377.11 m / 377.11 m
LOCATION: Troilus Mine, North of Chibougamau, Québec	INC. / AZIMUTH: 90.0° / 0.0°
CONTRACTOR: Forage Pelletier	EQUIPMENT: CME55

DEPTH (m)	DRILLING METHOD	STRATIGRAPHY			SAMPLES				GRAPH		LABORATORY AND IN SITU TESTS	INSTALLATION
		ELEVATION (m) / DEPTH	DESCRIPTION	SYMBOL	TYPE - NUMBER	SUB - SAMPLE	DEPTH	STATE & CALIBER	RECOVERY (%)	BLOWS / 15 cm		
		377.11	Ground level									
1		0.00	FILL - (SP) SAND; fine to coarse, gap graded, rounded; trace of gravel; reddish brown, oxidized; non-cohesive; dry, compact.		SS-1	B	54	6-15-14-9 /Frozen soil	29			
		376.35	0.76	Becoming moist.		SS-2	B	54	8-5-3-3	8		GSA HYD
2		375.59	1.52	(SP) SAND; fine to medium; light grey, oxidized; non-cohesive; moist, loose.		SS-3	B	41	3-3-2-3	5		
		374.82	2.29	(ML-SP) SILT and SAND; rounded; traces of gravel, coarse; light grey; non-cohesive; moist to wet, loose.		SS-4	B	51	3-4-4-5	8		GSA HYD w = 17%
3		374.06	3.05	(SM) SILTY SAND; fine to medium, rounded; traces of gravel; light grey, oxidized; non-cohesive; wet, loose.		SS-5	B	56	3-4-3-4	7		GSA HYD
		373.30	3.81	Becoming unoxidized.		SS-6	B	73	2-3-50 /R	R		GSA HYD
5		4.14	4.67	BEDROCK: grey, fair quality, medium grained, DIORITE. Shear zone in diorite, silicified, veining throughout, intense alteration (Alb-Sil-Bo-Ep), trace of pyrite associated with veins. Becoming excellent quality.		RC-7	NQ	62		62		
		372.44				RC-8	NQ	98		98		
6		370.91	6.19	End of borehole.								

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REMARK(S):

PREPARED BY: Zachary Morin  
 VERIFIED BY: Mathieu Gosselin

PAGE: 1 of 1  
 DATE: 2024-04-12



# BOREHOLE REPORT: BH-23-16

CLIENT: TROIILUS GOLD CORPORATION	DATE - BEG. / END: 2023-03-29
PROJECT: Troilus Feasibility Study	COORDINATES: N: 5,648,302.9 m E: 535,287.2 m UTM NAD83 Zone 18
PROJECT NO.: 2257554002	GROUND / TUBE ELEV.: 377.34 m / 377.34 m
LOCATION: Troilus Mine, North of Chibougamau, Québec	INC. / AZIMUTH: 90.0° / 0.0°
CONTRACTOR: Forage Pelletier	EQUIPMENT: CME55

DEPTH (m)	DRILLING METHOD	STRATIGRAPHY			SAMPLES					GRAPH		LABORATORY AND IN SITU TESTS	INSTALLATION
		ELEVATION (m) / DEPTH	DESCRIPTION	SYMBOL	TYPE - NUMBER	SUB - SAMPLE	DEPTH	STATE & CALIBER	RECOVERY (%)	BLOWS / 15 cm	N, Nc OR ROD		
		377.34	Ground level										
	NW	0.00	(SP) SAND; fine; light grey, oxidized; presence of organic matters; damp, compact.		SS-1	B	B	64	3-7-7-10 / Frozen soil	14	x		
1		0.76	(ML) SANDY SILT; gap graded; light grey; non-cohesive; wet, compact.		SS-2	B	B	77	6-10-8-10	18	o		GSA HYD w = 17%
2		1.52	(SM) Silty SAND; rounded; some gravel; light grey, unoxidize; non-cohesive; presence of millimetric silty layers; moist, compact.		SS-3	B	B	49	4-6-8-8	14	x		
3		2.29	(SW) Gravelly SAND; sub-rounded; light yellowish-brown; wet, compact.		SS-4	B	B	33	7-9-9-9	18	x		
4		3.81			SS-5	B	B	46	9-7-7-9	14	x		GSA HYD
		4.57			SS-6	B	B	43	18-12-7-7	19	x		
5		4.80	Becoming with presence of cobbles and boulders.		SS-7	B	B	57	20-50 / R	R	x		
		5.37			RC-8	A	B	100		53			
6		5.46	BEDROCK: grey; aphanitic, foliated; fair quality VOLCANIC INTERMEDIATE ROCK. Light grey, heavily silicified, porphyroclasts elongated along the foliation. Quartz veining and hematite staining around veins, pyrite in trace amounts around veins.		RC-9	B	NQ	100		89			
7		7.11	End of borehole.										

REMARK(S):

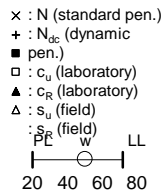
PREPARED BY: Zachary Morin  
 VERIFIED BY: Mathieu Gosselin



# BOREHOLE REPORT: BH-23-17

CLIENT: TROIILUS GOLD CORPORATION	DATE - BEG. / END: 2023-03-28
PROJECT: Troilus Feasibility Study	COORDINATES: N: 5,648,505.0 m E: 535,229.7 m UTM NAD83 Zone 18
PROJECT NO.: 2257554002	GROUND / TUBE ELEV.: 377.07 m / 377.07 m
LOCATION: Troilus Mine, North of Chibougamau, Québec	INC. / AZIMUTH: 90.0° / 0.0°
CONTRACTOR: Forage Pelletier	EQUIPMENT: CME55

DEPTH (m)	DRILLING METHOD	STRATIGRAPHY		SAMPLES					GRAPH		LABORATORY AND IN SITU TESTS	INSTALLATION	
		ELEVATION (m) / DEPTH	DESCRIPTION	SYMBOL	TYPE - NUMBER	SUB - SAMPLE	DEPTH	STATE & CALIBER	RECOVERY (%)	BLOWS / 15 cm			N, Nc OR ROD
377.07		0.00	Ground level SNOW										
1					SS-1	B	0		/HW				
					SS-2	B	23		/HW				
		375.40			A								
		1.67	(PT) Fibrous PEAT; dark brown; non-cohesive; wet, very loose.		B		49	0-2-8-7		10	XO		
2		375.25	(SW) SAND; fine, well graded, grey, oxidized, non-cohesive, wet, compact.		B								
		1.82			A								
		374.78	(PT) Fibrous PEAT; dark brown; non-cohesive; wet, very loose.		B		82		/ND				
		2.29			A								
		374.63	(SM) SANDY SILT; well graded, reddish brown, oxidized, presence of organic matters, wet, loose.		B		77	5-1-2-3		3	X		
3		2.44			A								
		374.48	Becoming grey, unoxidized; without organic matters.		B		56	1-2-1-2		3	X		
		2.59			A								
		374.02	Becoming very loose.		B		59	3-3-3-8		6	X		
4		3.05			A								
		371.89	BEDROCK: Grey, fine grained, shered, good quality DIORITE. Trace of sulphides locally and pyrite.		RC-8	NQ	100			100			
5		5.18			RC-9	NQ	97			89			
6		5.36											
7		6.86	End of borehole.										



w = 18%

GSA  
HYD

REMARK(S): Ground level surveyed : 375.403 m.

PREPARED BY: Zachary Morin  
 VERIFIED BY: Mathieu Gosselin

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# BOREHOLE REPORT: BH-23-18

CLIENT: TROIILUS GOLD CORPORATION	DATE - BEG. / END: 2023-03-29
PROJECT: Troilus Feasibility Study	COORDINATES: N: 5,649,082.0 m E: 535,396.5 m UTM NAD83 Zone 18
PROJECT NO.: 2257554002	GROUND / TUBE ELEV.: 371.48 m / 371.48 m
LOCATION: Troilus Mine, North of Chibougamau, Québec	INC. / AZIMUTH: 90.0° / 0.0°
CONTRACTOR: Forage Pelletier	EQUIPMENT: CME55

DEPTH (m)	DRILLING METHOD	STRATIGRAPHY		SAMPLES					GRAPH		LABORATORY AND IN SITU TESTS	INSTALLATION	
		DESCRIPTION	SYMBOL	TYPE - NUMBER	SUB - SAMPLE	DEPTH	STATE & CALIBER	RECOVERY (%)	BLOWS / 15 cm	N, Nc OR ROD			
371.48		Ground level											
0.00		(SP) SAND; coarse; light brown; wet, dense.		SS-1	A	0.00	X						
371.18					B	0.30	X	52	23-27-17-5	44		X	
0.30		(PT) SANDY PEAT; dark brown; non-cohesive; wet, loose.											
370.76		BOULDER.		RC-2		0.72	■	100		100			
0.72						0.99	X						
370.49		(ML-SP) SANDY SILT; fine; grey, oxidized; non-cohesive; wet, compact.		SS-3		1.52	X	63	3-6-5	11			
0.99						1.82	X						
369.96		(SM) SILTY SAND; some gravel; grey; loose, wet.		SS-4		2.13	X	18	6-4-4-3	8		X	
1.52						2.29	X						
						2.90	X	0	3-6-4-2	10		X	
						3.05	X						
368.43		(SM) Gravelly SILTY SAND; fine, sub-angular; grey; non-cohesive; wet, vey loose.		SS-6		3.66	X	21	5-1-1-2	2		X	
3.05						3.81	X						
						4.42	X	48	4-1-0-1	1		X	
						4.57	X						
						5.18	X	57	4-1-1-4	2		X	
						5.33	X						
366.15		Becoming loose to compact.		SS-9		5.94	X	38	8-7-3-4	10		X	
5.33						6.10	X						
365.38		Becoming very dense.		SS-10		6.71	X	31	12-36-45-49	81		O	
6.10						6.86	X						
364.62		Becoming compact.		SS-11		7.47	X	48	21-10-9-9	19		X	
6.86						7.62	X						
363.86		(SM) SILTY SAND; trace of gravel; dark grey; wet, loose.		SS-12	A	7.77	X	72	5-18-23-30	41		X	
7.62					B	8.23	X						
363.71		Becoming, light grey and dense.				8.38	X						
7.77						8.99	X	90	21-28-30-14	58		O	
363.10		Becoming very dense.		SS-13		9.15	X						
8.38						9.23	X						
							X	0	50/R	R			
362.25		Becoming with presence of cobbles and boulders; dark grey.		RC-15			■	42		0			
9.23													

REMARK(S):



PREPARED BY: Zachary Morin  
 VERIFIED BY: Mathieu Gosselin

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# BOREHOLE REPORT: BH-23-18

CLIENT: TROIILUS GOLD CORPORATION	DATE - BEG. / END: 2023-03-29
PROJECT: Troilus Feasibility Study	COORDINATES: N: 5,649,082.0 m E: 535,396.5 m UTM NAD83 Zone 18
PROJECT NO.: 2257554002	GROUND / TUBE ELEV.: 371.48 m / 371.48 m
LOCATION: Troilus Mine, North of Chibougamau, Québec	INC. / AZIMUTH: 90.0° / 0.0°
CONTRACTOR: Forage Pelletier	EQUIPMENT: CME55

DEPTH (m)	DRILLING METHOD	STRATIGRAPHY		SAMPLES					GRAPH				LABORATORY AND IN SITU TESTS	INSTALLATION	
		ELEVATION (m) / DEPTH	DESCRIPTION	SYMBOL	TYPE - NUMBER	SUB - SAMPLE	DEPTH	STATE & CALIBER	RECOVERY (%)	BLOWS / 15 cm	N, Nc OR ROD				
11		361.34 10.14	COBBLES and BOULDERS.		RC-16		NQ	44		0					
12		359.80 11.68	BEDROCK: White, medium grained, crystalline, fair quality tonalite-diorite. heavy albite alteration. Poorly foliated, no sulphide.		RC-17		NQ	93		58					
13															
14					RC-18		NQ	98		73					
15		357.08 14.40	End of borehole.												
16															
17															
18															
19															

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# BOREHOLE REPORT: BH-23-19

CLIENT: TROIILUS GOLD CORPORATION	DATE - BEG. / END: 2023-07-23
PROJECT: Troilus Feasibility Study	COORDINATES: N: 5,649,842.4 m E: 536,237.7 m UTM NAD83 Zone 18
PROJECT NO.: 2257554002	GROUND / TUBE ELEV.: 370.15 m / 370.15 m
LOCATION: Troilus Mine, North of Chibougamau, Québec	INC. / AZIMUTH: 90.0° / 0.0°
CONTRACTOR: Forage Pelletier	EQUIPMENT: CME55

DEPTH (m)	DRILLING METHOD	STRATIGRAPHY		SAMPLES				GRAPH		LABORATORY AND IN SITU TESTS	INSTALLATION			
		ELEVATION (m) / DEPTH	DESCRIPTION	SYMBOL	TYPE - NUMBER	SUB - SAMPLE	DEPTH	STATE & CALIBER	RECOVERY (%)			BLOWS / 15 cm	N, Nc OR ROD	
		370.15	Ground level											
1		0.00	(PT) Fibrous PEAT; brown; wet, very loose.		SS--		N	0	0-0-0-0	HWK				
		369.33	(SM) SILTY SAND; grey; wet, very loose to loose.		SS-1		B	62	0-0-1-4	1	X			
2		0.82			SS-2		B	48	1-3-5-5	8	X	O		w = 28%
		1.22			SS-3		B	79	3-4-6-6	10	X			
		1.83			SS--		B	0	4-5-5-6	10	X			
3		2.44	(SW) SAND; some silt; grey; wet, becoming compact.		SS-4		B	69	6-7-7-6	14	X	O		GSA HYD w = 20%
		3.05			SS-5		B	48	3-10-12-8	22	X			
4		3.66			SS-6		B	34	9-7-5-5	12	X			
5		4.88	(SM) SILTY SAND; some gravel; grey; presence of cobbles inferred from drilling resistance; wet, very loose to loose.		SS-7		B	0	5-3-2-1	5	X			
		365.27			SS-8		B	25	3-2-0-6	2	X			
6		4.88			SS-9		B	0	8-6-5-4	11	X			
		5.49			SS-10		B	0	6-5-2-1	7	X			
7		6.10			SS-11		B	0	10-7-2-5	9	X			
8		6.71	Becoming very dense.		SS-12		B	44	4-10-50 / 2"	R	X			
		7.32												
9		7.93	BEDROCK: slightly weathered; grey; fair quality to good quality fine grained FELSPAR PORPHYRY.		RC-13		NQ	100			73			
		361.71			RC-14		NQ	97				76		
10		8.44												
11		9.27	End of borehole.											
		359.40												
		10.75												

REMARK(S):

PREPARED BY: Cheikh Ndong, BluMetric Environnement  
 VERIFIED BY: Mathieu Gosselin



# BOREHOLE REPORT: BH-23-20

CLIENT: TROIILUS GOLD CORPORATION	DATE - BEG. / END: 2023-07-22
PROJECT: Troilus Feasibility Study	COORDINATES: N: 5,650,226.7 m E: 537,082.8 m UTM NAD83 Zone 8
PROJECT NO.: 2257554002	GROUND / TUBE ELEV.: 386.51 m / 386.51 m
LOCATION: Troilus Mine, North of Chibougamau, Québec	INC. / AZIMUTH: 90.0° / 0.0°
CONTRACTOR: Forage Pelletier	EQUIPMENT: CME55

DEPTH (m)	DRILLING METHOD	STRATIGRAPHY		SAMPLES				GRAPH		LABORATORY AND IN SITU TESTS	INSTALLATION					
		ELEVATION (m) / DEPTH	DESCRIPTION	SYMBOL	TYPE - NUMBER	SUB - SAMPLE	DEPTH	STATE & CALIBER	RECOVERY (%)			BLOWS / 15 cm	N, Nc OR ROD			
		386.51	Ground level													
1		0.00	(SP) SAND; some silt; trace of gravel; brown; probable presence of cobbles due to high N values; Till; moist, compact. Becoming grey; very dense.		SS-1	N	62	3-3-12-25	15	X						
		0.61			SS-2	B	66	16-26-29-32	55							
		1.22			SS-3	B	56	18-48-30-36	78							
2		1.83	Becoming wet.		SS-4	B	64	14-33-30-24	63							
		2.44			SS-5	B	54	12-16-17-27	33							
		3.05			SS-6	B	66	13-18-12-14	30							
3		3.05	(SM) Gravelly SILTY SAND; trace of clay; grey; probable presence of cobbles due to high N values and inference from drilling resistance; Till; wet, dense to very dense.		SS-7	B	48	30-26-20-23	46							
		3.66			SS-8	B	75	3-17-36-31	53							
		4.27			SS-9	B	69	19-41-34-16	75							
4		5.19	(SM) SILTY SAND; trace of gravel; grey; probable presence of cobbles due to high N values and inference from drilling resistance; Till; wet, dense to very dense.		SS-10	B	79	22-18-14-20	32							
		5.80			SS-11	B	71	21-35-50 / 4"-R	85							
		6.72			SS--	B	0	50 / 3"-R								
5		7.33														
6		8.25														
7		8.86														
8		9.78														
9		10.19														
10		11.31														
11																
12																

REMARK(S):

PREPARED BY: Cheikh Ndong, BluMetric Environnement  
 VERIFIED BY: Mathieu Gosselin

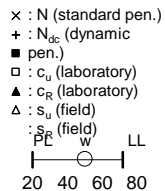
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# BOREHOLE REPORT: BH-23-20

CLIENT: TROIILUS GOLD CORPORATION	DATE - BEG. / END: 2023-07-22
PROJECT: Troilus Feasibility Study	COORDINATES: N: 5,650,226.7 m E: 537,082.8 m UTM NAD83 Zone 8
PROJECT NO.: 2257554002	GROUND / TUBE ELEV.: 386.51 m / 386.51 m
LOCATION: Troilus Mine, North of Chibougamau, Québec	INC. / AZIMUTH: 90.0° / 0.0°
CONTRACTOR: Forage Pelletier	EQUIPMENT: CME55

DEPTH (m)	DRILLING METHOD	STRATIGRAPHY		SAMPLES					GRAPH		LABORATORY AND IN SITU TESTS	INSTALLATION		
		ELEVATION (m) / DEPTH	DESCRIPTION	SYMBOL	TYPE - NUMBER	SUB - SAMPLE	DEPTH	STATE & CALIBER	RECOVERY (%)	BLOWS / 15 cm			N, Nc OR ROD	
13					SS-12									
12.84 - 13.12							B	50	43-50 / 5"	R				X
14		372.14 / 14.37	COBBLES and BOULDERS.											
15														
16														
17														
18		368.21 / 18.30	(SM) SILTY SAND; some gravel; probable presence of cobbles due to high N values and inference from drilling resistance; Till; wet, very dense.		SS-13		B	100	37-50 / 4"	R				X
18.30 - 18.58														
19														
20					SS-14		B	100	47-50 / 4"	R				X
19.83 - 20.07														
21														
22					SS-15		B	100	49-50 / 1"	R				X
21.36 - 21.54														
23		363.50 / 23.01	BEDROCK: fresh; dark grey; excellent quality; fine grained, VOLCANIC INTERMEDIATE ROCK.		SS-16		B	100	25-49-48-41	97				X
22.40 - 23.01														
24		361.97 / 24.54	End of borehole.		RC-17		NQ	100		100				
24.54														
25														



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# BOREHOLE REPORT: BH-23-21

CLIENT: TROIILUS GOLD CORPORATION	DATE - BEG. / END: 2023-04-01
PROJECT: Troilus Feasibility Study	COORDINATES: N: 5,653,538.6 m E: 539,086.2 m UTM NAD83 Zone 18
PROJECT NO.: 2257554002	GROUND / TUBE ELEV.: 353.43 m / 353.43 m
LOCATION: Troilus Mine, North of Chibougamau, Québec	INC. / AZIMUTH: 90.0° / 0.0°
CONTRACTOR: Forage Pelletier	EQUIPMENT: CME55

DEPTH (m)	DRILLING METHOD	STRATIGRAPHY		SAMPLES					GRAPH		LABORATORY AND IN SITU TESTS	INSTALLATION	
		ELEVATION (m) / DEPTH	DESCRIPTION	SYMBOL	TYPE - NUMBER	SUB - SAMPLE	DEPTH	STATE & CALIBER	RECOVERY (%)	BLOWS / 15 cm			N, Nc OR ROD
353.43		0.00	Ground level SNOW.										
353.12		0.31	(PT) Fibrous PEAT; wet, very loose.		SS-1	A	0.31	B	0	0-1-0-1	1	X	
		0.61			B								
		0.76			SS-2			B	0	1-0-0-0		HWK	
		1.37											
		1.52											
351.76		1.67	(ML-SP) SILT and SAND; light brownish grey; presence of organic matters; wet, loose.		SS-3	B	1.67	B	57	1-3-3-3	6	X	
		2.13											
351.14		2.29	(ML) SANDY SILT; grey; non-cohesive; wet, loose.		SS-4		2.29	B	69	4-3-4-3	7	X	
		2.90											
350.38		3.05	(SP-ML) SAND and SILT; grey; wet, loose.		SS-5		3.05	B	57	3-4-4-4	8	X	
		3.66											
		3.81			SS-6		4.42	B	61	5-4-4-5	8	X	
		4.57					4.57	B	59	2-3-4-3	7	X	GSA HYD w = 19%
		5.18					5.18	B	52	7-5-4-4	9	X	
348.10		5.33	(ML) SANDY SILT; grey; non-cohesive; wet, loose.		SS-8		5.33	B	52	7-5-4-4	9	X	
		5.94											
347.33		6.10	(SP-ML) SAND and SILT; grey; oxidized; wet, loose.		SS-9		6.10	B	57	4-5-5-4	10	X	
		6.71											
		6.86			SS-10		6.86	B	54	4-3-4-4	7	X	
		7.47					7.47	B	57	5-3-3-5	6	X	GSA HYD w = 24%
345.81		7.62	Becoming unoxidized.		SS-11		7.62	B	57	5-3-3-5	6	X	
		8.23					8.23	B	66	5-6-8-9	14	X	
345.05		8.38	Becoming light brownish grey and compact.		SS-12		8.38	B	66	5-6-8-9	14	X	
		8.99											
		9.14			SS-13		9.14	B	61	5-6-6-6	12	X	
		9.75					9.75	B	61	5-6-6-6	12	X	

REMARK(S): Ground level surveyed : 353.124 m.

PREPARED BY: Zachary Morin  
 VERIFIED BY: Mathieu Gosselin

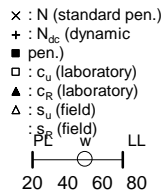
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# BOREHOLE REPORT: BH-23-21

CLIENT: TROIILUS GOLD CORPORATION	DATE - BEG. / END: 2023-04-01
PROJECT: Troilus Feasibility Study	COORDINATES: N: 5,653,538.6 m E: 539,086.2 m UTM NAD83 Zone 18
PROJECT NO.: 2257554002	GROUND / TUBE ELEV.: 353.43 m / 353.43 m
LOCATION: Troilus Mine, North of Chibougamau, Québec	INC. / AZIMUTH: 90.0° / 0.0°
CONTRACTOR: Forage Pelletier	EQUIPMENT: CME55

DEPTH (m)	DRILLING METHOD	STRATIGRAPHY		SAMPLES					GRAPH		LABORATORY AND IN SITU TESTS	INSTALLATION		
		ELEVATION (m) / DEPTH	DESCRIPTION	SYMBOL	TYPE - NUMBER	SUB - SAMPLE	DEPTH	STATE & CALIBER	RECOVERY (%)	BLOWS / 15 cm			N, Nc OR ROD	
11					SS-14		9.91	B	57	7-7-7-6	14	X		
					SS-15		10.52 10.67	B	67	5-5-6-7	11	X		
12					SS-16		11.28 11.43	B	57	9-6-8-6	14	X		
					SS-17		12.04 12.19	B	57	6-6-3-3	9	X		
14		339.74 13.69	Becoming with cobbles and boulders.		SS-18		13.69			0	50/R			
15					RC-19			NQ						
16					RC-20		15.21 15.23	NQ			72		47	
17		336.62 16.81	BEDROCK: weakly altered, white to pink, coarse grained, pegmatic, fair quality GRANITE.		RC-21		16.81	NQ			96		65	
18					RC-22		18.38	NQ			100		99	
19		335.05 18.38	Becoming excellent quality.											
20		333.53 19.90	End of borehole.				19.90							



GSA  
HYD  
w = 20%

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# BOREHOLE REPORT: BH-23-22

CLIENT: TROIILUS GOLD CORPORATION	DATE - BEG. / END: 2023-03-27
PROJECT: Troilus Feasibility Study	COORDINATES: N: 5,654,004.1 m E: 538,729.6 m UTM NAD83 Zone 18
PROJECT NO.: 2257554002	GROUND / TUBE ELEV.: 361.35 m / 361.35 m
LOCATION: Troilus Mine, North of Chibougamau, Québec	INC. / AZIMUTH: 90.0° / 0.0°
CONTRACTOR: Forage Pelletier	EQUIPMENT: CME55

DEPTH (m)	DRILLING METHOD	STRATIGRAPHY		SAMPLES					GRAPH		LABORATORY AND IN SITU TESTS	INSTALLATION			
		ELEVATION (m) / DEPTH	DESCRIPTION	SYMBOL	TYPE - NUMBER	SUB - SAMPLE	DEPTH	STATE & CALIBER	RECOVERY (%)	BLOWS / 15 cm			N, Nc OR ROD		
361.35		0.00	Ground level SNOW.												
361.05		0.30	(SM) SILTY SAND; brown, unoxidized; presence of organic matters; wet, loose. Becoming reddish brown, oxidized and without organic matters. Becoming with trace of gravel.	SS-1	A	B	69	4-4-3-2	7	X	O	GSA HYD w = 25%			
360.90		0.45			B										
360.59		0.76			C										
359.91		1.44	(ML) Gravelly SANDY SILT; poorly graded; sub-angular; light grey, unoxidized; wet, very dense.	SS-2		B	38	3-3-2-2	5	X					
359.22		1.52		SS-3		B	38	40-30-30-27	60	X					
2.13		2.13	BEDROCK: White, coarse grained, crystalline, fair quality GRANITE.	SS-4		NQ	100		64						
358.91		2.44	Becoming good quality.	RC-5		NQ	96		91						
358.44		2.91	Becoming excellent quality.	RC-6		NQ	100		100						
357.37		3.98	End of borehole.												

REMARK(S): Ground level surveyed : 361.354 m.

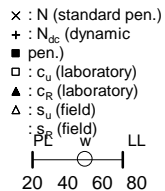
PREPARED BY: Zachary Morin  
 VERIFIED BY: Mathieu Gosselin



# BOREHOLE REPORT: BH-23-23

CLIENT: TROIILUS GOLD CORPORATION DATE - BEG. / END: 2023-03-30  
 PROJECT: Troilus Feasibility Study COORDINATES: N: 5,647,519.8 m E: 534,203.6 m UTM NAD83 Zone 18  
 PROJECT NO.: 2257554002 GROUND / TUBE ELEV.: 382.16 m / 382.16 m  
 LOCATION: Troilus Mine, North of Chibougamau, Québec INC. / AZIMUTH: 90.0° / 0.0°  
 CONTRACTOR: Forage Pelletier EQUIPMENT: CME55

DEPTH (m)	DRILLING METHOD	STRATIGRAPHY		SAMPLES						GRAPH	LABORATORY AND IN SITU TESTS	INSTALLATION				
		ELEVATION (m) / DEPTH	DESCRIPTION	SYMBOL	TYPE - NUMBER	SUB - SAMPLE	DEPTH	STATE & CALIBER	RECOVERY (%)				BLOWS / 15 cm	N, Nc OR ROD		
		382.16	Ground level													
		0.00	(SW) Gravelly SAND; well graded, sub-rounded; beige, oxidized; moist, compact.		SS-1		B	39	6-8-12-32 / Frozen soil	20	X					
1		381.40	(SW-GW) SAND and GRAVEL; well graded, sub-rounded; light brownish grey, unoxidized; wet, compact.		SS-2		B	33	8-6-11-11	17	X					
		0.76														
		1.37														
2		380.64	(SP) SAND; medium to coarse; dark grey, unoxidized; wet, compact.		SS-3		B	18	14-10-10-8	20	X					
		1.52														
		2.13														
		2.29														
		2.29	(SW) Gravelly SAND; medium to coarse; some silt; sub-rounded; grey, oxidized; presence of cobbles and boulder; wet, very dense.		SS-4		B	54	13-50 / R	R	O					
		379.87														
		2.29														
		2.57	Becoming with cobbles and boulders.		RC-5		NQ	79								
3		379.59														
		2.57														
		3.23														
		4.67														
4		377.49	(SP) Gravelly SAND; medium to coarse; sub-rounded; greyish brown, unoxidize; presence of cobbles and boulders; wet, very dense.		RC-6		NQ	58								
		4.67														
		5.98														
5		377.49														
		4.67														
		5.98														



GSA HYD w = 10%

REMARK(S):

PREPARED BY: Zachary Morin  
 VERIFIED BY: Mathieu Gosselin

PAGE: 1 of 2  
 DATE: 2024-04-12

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# BOREHOLE REPORT: BH-23-23

CLIENT: TROIILUS GOLD CORPORATION	DATE - BEG. / END: 2023-03-30
PROJECT: Troilus Feasibility Study	COORDINATES: N: 5,647,519.8 m E: 534,203.6 m UTM NAD83 Zone 18
PROJECT NO.: 2257554002	GROUND / TUBE ELEV.: 382.16 m / 382.16 m
LOCATION: Troilus Mine, North of Chibougamau, Québec	INC. / AZIMUTH: 90.0° / 0.0°
CONTRACTOR: Forage Pelletier	EQUIPMENT: CME55

DEPTH (m)	DRILLING METHOD	STRATIGRAPHY		SAMPLES					GRAPH		LABORATORY AND IN SITU TESTS	INSTALLATION
		ELEVATION (m) / DEPTH	DESCRIPTION	SYMBOL	TYPE - NUMBER	SUB - SAMPLE	DEPTH	STATE & CALIBER	RECOVERY (%)	BLOWS / 15 cm		
7					RC-8		NQ	80		13		
8												
					RC-9		NQ	87		62		
9												
10		372.36 9.80	BEDROCK: Grey, fine grained, foliated, fair quality; MAFIC VOLCANICS ROCK. Presence of calcite veinlets.		RC-10		NQ	74		45		
					B							
11												
					RC-11		NQ	95		76		
12		370.06 12.10	End of borehole.									

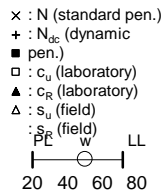
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# BOREHOLE REPORT: BH-23-26

CLIENT: TROIILUS GOLD CORPORATION	DATE - BEG. / END: 2023-03-30
PROJECT: Troilus Feasibility Study	COORDINATES: N: 5,648,038.7 m E: 533,726.3 m UTM NAD83 Zone 18
PROJECT NO.: 2257554002	GROUND / TUBE ELEV.: 382.91 m / 382.91 m
LOCATION: Troilus Mine, North of Chibougamau, Québec	INC. / AZIMUTH: 90.0° / 0.0°
CONTRACTOR: Forage Pelletier	EQUIPMENT: CME55

DEPTH (m)	DRILLING METHOD	STRATIGRAPHY		SAMPLES					GRAPH		LABORATORY AND IN SITU TESTS	INSTALLATION	
		ELEVATION (m) / DEPTH	DESCRIPTION	SYMBOL	TYPE - NUMBER	SUB - SAMPLE	DEPTH	STATE & CALIBER	RECOVERY (%)	BLOWS / 15 cm			N, Nc OR ROD
		382.91	Ground level										
1		0.00	(PT) Fibrous PEAT; dark brown; wet, very loose.		SS-1		B	0	1-0-0-0	HW*			
		0.61											
		0.76			SS-2		B	0	0-0-0-0 / PM	HW*			
		1.37											
		1.52	Black BOULDER.		SS-3		B	67	50 / R	R			
		1.64				A							
2		1.91	(ML) Sandy SILT; no plasticity; trace of gravel; sub-angular; dark grey; wet, loose.		RC-4		NQ	46		32			
		2.75				B							
3		3.05	(ML-SP) Gravelly SILT and SAND; no plasticity; sub-angular; dark grey; wet, compact.		SS-5		B	15	5-9-9-9	18			
		3.66											
4		3.81	(SW-ML) SAND and SILT; no plasticity; some gravel grey; wet, compact.		SS-6		B	13	7-7-7-5	14			
		4.42											
		4.57											
5		5.18			SS-7		B	100	3-5-1-0	6			
		5.33											
		5.33			SS-8		B	16	4-1-2-3	3			



GSA  
HYD  
w = 9%

REMARK(S):

PREPARED BY: Zachary Morin  
VERIFIED BY: Mathieu Gosselin



# BOREHOLE REPORT: BH-23-26

CLIENT: TROIILUS GOLD CORPORATION	DATE - BEG. / END: 2023-03-30
PROJECT: Troilus Feasibility Study	COORDINATES: N: 5,648,038.7 m E: 533,726.3 m UTM NAD83 Zone 18
PROJECT NO.: 2257554002	GROUND / TUBE ELEV.: 382.91 m / 382.91 m
LOCATION: Troilus Mine, North of Chibougamau, Québec	INC. / AZIMUTH: 90.0° / 0.0°
CONTRACTOR: Forage Pelletier	EQUIPMENT: CME55

DEPTH (m)	DRILLING METHOD	STRATIGRAPHY		SAMPLES					GRAPH		LABORATORY AND IN SITU TESTS	INSTALLATION		
		ELEVATION (m) / DEPTH	DESCRIPTION	SYMBOL	TYPE - NUMBER	SUB - SAMPLE	DEPTH	STATE & CALIBER	RECOVERY (%)	BLOWS / 15 cm			N, Nc OR ROD	
6		376.81 6.10	Becoming with trace of gravel.		SS-9		B	64	12-13-5-6	18		w = 11%		
7		376.05 6.86	(SM) Gravelly SILTY SAND; fine to coarse, gap graded, rounded; grey; wet, very dense.		SS-10		B	100	21-50 /R	R				
		375.77 7.14	(ML) Sandy SILT; no plasticity; poorly graded; dark grey; presence of cobbles and boulders; wet, very dense.		RC-11		NQ	40		17				
8		375.19 7.72	BEDROCK: Grey, fine grained, good quality; MAFIC VOLCANIC ROCK. Aphanitic matrix with quartz nodules. Trace of sulphide, often in or around nodules. Bo-Amph alteration. Strong shearing, nodules are aligned along stress.		RC-12		NQ	59		49				
9														
10														
11		372.16 10.75	End of borehole.											

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# BOREHOLE REPORT: BH-23-36

CLIENT: TROIILUS GOLD CORPORATION DATE - BEG. / END: 2023-04-04  
 PROJECT: Troilus Feasibility Study COORDINATES: N: 5,651,054.7 m E: 535,842.6 m UTM NAD83 Zone 18  
 PROJECT NO.: 2257554002 GROUND / TUBE ELEV.: 373.34 m / 373.34 m  
 LOCATION: Troilus Mine, North of Chibougamau, Québec INC. / AZIMUTH: 90.0° / 0.0°  
 CONTRACTOR: Forage Pelletier EQUIPMENT: CME55

DEPTH (m)	DRILLING METHOD	STRATIGRAPHY		SAMPLES				GRAPH		LABORATORY AND IN SITU TESTS	INSTALLATION			
		ELEVATION (m) / DEPTH	DESCRIPTION	SYMBOL	TYPE - NUMBER	SUB - SAMPLE	DEPTH	STATE & CALIBER	RECOVERY (%)			BLOWS / 15 cm	N, Nc OR ROD	
373.34		0.00	Ground level (PT) Fibrous PEAT; probable presence of cobbles.		SS-1		B	0	0-18-42-48	60	x : N (standard pen.) + : N <sub>dc</sub> (dynamic pen.) □ : c <sub>u</sub> (laboratory) ▲ : c <sub>R</sub> (laboratory) Δ : s <sub>u</sub> (field) : s <sub>p</sub> (field) P <sub>w</sub> LL 	GSA HYD w = 11%		
372.58		0.76	(SM) SILTY SAND; sub-angular, gap graded; some gravel; light brown; wet, compact.		SS-2		B	25	18-10-8-4	18				
		1.37												
		1.52					B	0	10-8-6-3	14				
		2.13												
		2.29	(ML) Sandy SILT; traces of gravel; fine; gap graded; grey; wet, loose.		SS-4		B	32	0-2-4-50 /R	6				
		370.52												
		2.82	BEDROCK: Grey banded, foliated, fair quality INTERMEDIATE VOLCANIC ROCK. Some bands appear more felsic. Some shear zones have sulphide (Py) in trace amounts. Qtz-Cb veins locally with Ep alteration		RC-5		NQ	76		68				
		368.89												
		4.45	Becoming excellent quality.		RC-6		NQ	102		99				
		367.50												
		5.84	End of borehole.											

REMARK(S):

PREPARED BY: Zachary Morin  
 VERIFIED BY: Mathieu Gosselin

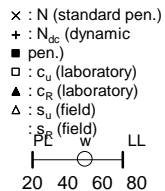
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# BOREHOLE REPORT: BH-23-38

CLIENT: TROIILUS GOLD CORPORATION	DATE - BEG. / END: 2023-07-27
PROJECT: Troilus Feasibility Study	COORDINATES: N: 5,651,582.5 m E: 536,311.3 m UTM NAD83 Zone 8
PROJECT NO.: 2257554002	GROUND / TUBE ELEV.: 378.72 m / 378.72 m
LOCATION: Troilus Mine, North of Chibougamau, Québec	INC. / AZIMUTH: 90.0° / 0.0°
CONTRACTOR: Forage Pelletier	EQUIPMENT: CME55

DEPTH (m)	DRILLING METHOD	STRATIGRAPHY		SAMPLES					GRAPH	LABORATORY AND IN SITU TESTS	INSTALLATION					
		ELEVATION (m) / DEPTH	DESCRIPTION	SYMBOL	TYPE - NUMBER	SUB - SAMPLE	DEPTH	STATE & CALIBER	RECOVERY (%)			BLOWS / 15 cm	N, Nc OR ROD			
		378.72	Ground level													
1		0.00	FILL - (SP) Gravelly SAND; rounded; grey; presence of cobbles and boulders from visual observation and inferred by drilling resistance.													
6		372.62														
7		6.10	(SW-ML) SAND and SILT; trace of clay and gravel; grey; probable presence of cobbles due to high N values and inferred by drilling resistance; Till; wet, dense.		SS-1		B	38	14-15-15-17	30						
8		7.63			SS-2		B	34	11-17-20-16	37						
9		9.16			SS-3		B	43	18-22-20-19	42						
10		9.77														
11		10.69			SS-4		B	90	19-20-17-14	37						GSA HYD
12		12.22	Becoming very dense.		SS-5		B		26-33-26-18	59						



REMARK(S):

PREPARED BY: Cheikh Ndong, BluMetric Environnement  
 VERIFIED BY: Mathieu Gosselin

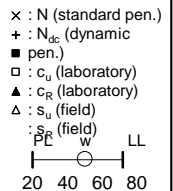
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# BOREHOLE REPORT: BH-23-38

CLIENT: TROIILUS GOLD CORPORATION	DATE - BEG. / END: 2023-07-27
PROJECT: Troilus Feasibility Study	COORDINATES: N: 5,651,582.5 m E: 536,311.3 m UTM NAD83 Zone 8
PROJECT NO.: 2257554002	GROUND / TUBE ELEV.: 378.72 m / 378.72 m
LOCATION: Troilus Mine, North of Chibougamau, Québec	INC. / AZIMUTH: 90.0° / 0.0°
CONTRACTOR: Forage Pelletier	EQUIPMENT: CME55

DEPTH (m)	DRILLING METHOD	STRATIGRAPHY		SAMPLES					GRAPH		LABORATORY AND IN SITU TESTS	INSTALLATION		
		ELEVATION (m) / DEPTH	DESCRIPTION	SYMBOL	TYPE - NUMBER	SUB - SAMPLE	DEPTH	STATE & CALIBER	RECOVERY (%)	BLOWS / 15 cm			N, Nc OR ROD	
14		364.84 13.88	Becoming with presence of COBBLES and BOULDERS.		SS-6									
15		364.10 14.62	BEDROCK: dark grey; very poor quality; fine grained VOLCANIC INTERMEDIATE ROCK.		RC-7									
16		363.50 15.22	Becoming fresh, excellent quality.		RC-8									
17		361.97 16.75	End of borehole.											



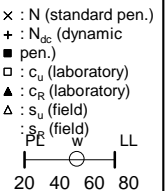
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# BOREHOLE REPORT: BH-23-39

CLIENT: TROIILUS GOLD CORPORATION	DATE - BEG. / END: 2023-07-26
PROJECT: Troilus Feasibility Study	COORDINATES: N: 5,651,621.5 m E: 536,694.3 m UTM NAD83 Zone 8
PROJECT NO.: 2257554002	GROUND / TUBE ELEV.: 379.16 m / 379.16 m
LOCATION: Troilus Mine, North of Chibougamau, Québec	INC. / AZIMUTH: 90.0° / 0.0°
CONTRACTOR: Forage Pelletier	EQUIPMENT: CME55

DEPTH (m)	DRILLING METHOD	STRATIGRAPHY		SAMPLES					GRAPH	LABORATORY AND IN SITU TESTS	INSTALLATION						
		ELEVATION (m) / DEPTH	DESCRIPTION	SYMBOL	TYPE - NUMBER	SUB - SAMPLE	DEPTH	STATE & CALIBER	RECOVERY (%)			BLOWS / 15 cm	N, Nc OR ROD				
379.16		0.00	Ground level FILL - OVERBURDEN	X													
1																	
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9		370.71 8.45	(SW) SILTY SAND; trace of gravel; grey; presence of cobbles inferred by drilling resistance; wet, very loose.	X	SS-1		8.45	B	57	1-0-1-1	1	X	O			GSA HYD w = 25%	
10							9.06										
11							9.98	B	34	1-3-1-4	4	X					
12		367.65 11.51	Becoming with some gravel.	X	SS-3		11.51	B	30	17-8-7-7	15	X					
							12.12										



GSA  
HYD  
w = 25%

REMARK(S):

PREPARED BY: Cheikh Ndong, BluMetric Environnement  
 VERIFIED BY: Mathieu Gosselin

WSP\_EN\_Log-Geo.sty



# BOREHOLE REPORT: BH-23-39

CLIENT: TROIILUS GOLD CORPORATION	DATE - BEG. / END: 2023-07-26
PROJECT: Troilus Feasibility Study	COORDINATES: N: 5,651,621.5 m E: 536,694.3 m UTM NAD83 Zone 8
PROJECT NO.: 2257554002	GROUND / TUBE ELEV.: 379.16 m / 379.16 m
LOCATION: Troilus Mine, North of Chibougamau, Québec	INC. / AZIMUTH: 90.0° / 0.0°
CONTRACTOR: Forage Pelletier	EQUIPMENT: CME55

DEPTH (m)	DRILLING METHOD	STRATIGRAPHY			SAMPLES				GRAPH		LABORATORY AND IN SITU TESTS	INSTALLATION	
		ELEVATION (m) / DEPTH	DESCRIPTION	SYMBOL	TYPE - NUMBER	SUB - SAMPLE	DEPTH	STATE & CALIBER	RECOVERY (%)	BLOWS / 15 cm			N, Nc OR ROD
14		365.51 13.65	(ML) SILT; some clay, trace of sand; grey; presence of cobbles inferred by drilling resistance.		SS-4		B	18	6-4-5-4	9	X		
15					SS-5		B	51	13-12-21-22	33	X		
16					SS-6		B	74	5-10-20-20	30	O X	GSA HYD w = 19%	
18		361.53 17.63	(SM) SILTY SAND; some gravel; grey; probable presence of cobbles due to high N values and inferred by drilling resistance; Till; wet, very dense.		SS-7		B		40-47-35-31	82	X		
19		360.00 19.16	Becoming with trace of gravel.		SS-8		B	33	11-20-28-29	48	X		
21		358.47 20.69	Becoming with BOULDERS.										
23		356.65 22.51	BEDROCK: fresh; light color; massive, coarse grained SYENITE.		RC-9		NQ	100		73			
24		355.12 24.04	End of borehole.										

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# BOREHOLE REPORT: BH-23-40

CLIENT: TROIILUS GOLD CORPORATION	DATE - BEG. / END: 2023-07-29
PROJECT: Troilus Feasibility Study	COORDINATES: N: 5,651,903.8 m E: 536,318.7 m UTM NAD83 Zone 8
PROJECT NO.: 2257554002	GROUND / TUBE ELEV.: 381.79 m / 381.79 m
LOCATION: Troilus Mine, North of Chibougamau, Québec	INC. / AZIMUTH: 90.0° / 0.0°
CONTRACTOR: Forage Pelletier	EQUIPMENT: CME55

DEPTH (m)	DRILLING METHOD	STRATIGRAPHY		SAMPLES				GRAPH		LABORATORY AND IN SITU TESTS	INSTALLATION			
		ELEVATION (m) / DEPTH	DESCRIPTION	SYMBOL	TYPE - NUMBER	SUB - SAMPLE	DEPTH	STATE & CALIBER	RECOVERY (%)			BLOWS / 15 cm	N, Nc OR ROD	
381.79			Ground level											
0.00		381.67	(PT) Fibrous PEAT, brown, moist, loose.											
0.12			(SP) Sandy SILT; greyish brown; moist, loose.		SS-1		N	92	1-1-1-2	2	X			
					SS-2		B	67	2-2-3-4	5	X			
380.57		1.22	Becoming with probable presence of cobbles due to high N values; Till; wet, very dense.		SS-3		B	67	5-26-50 / 3"-R					
379.96		1.83	(SP) SAND; grey; probable presence of cobbles inferred by drilling resistance; Till; wet, dense.		SS-4		B	32	23-48-23-9	71	O			w = 14%
379.35		2.44	(SW) Silty SAND; grey; probable presence of cobbles inferred by drilling resistance; Till; wet, compact.		SS-5		B	30	8-6-4-8	10	X			
					SS--		B	0	12-16-13-17	29	X			
378.13		3.66	(SP) SAND; coarse; grey; probable presence of cobbles due to high N values; Till; wet, very dense.		SS-6		B	47	23-33-50 / 3"	R				
377.52		4.27	Becoming with BOULDERS.		SS---		B	0	50 / 3"	R				
377.04		4.75	BEDROCK: slightly weathered; black; excellent quality, fine grained INTERMEDIATE VOLCANIC ROCK.		RC-7		NQ	100		91				
375.34		6.45	End of borehole.											

REMARK(S):

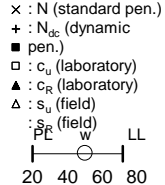
PREPARED BY: Cheikh Ndong, BluMetric Environnement  
 VERIFIED BY: Mathieu Gosselin



# BOREHOLE REPORT: BH-23-41

CLIENT: TROIILUS GOLD CORPORATION DATE - BEG. / END: 2023-07-26  
 PROJECT: Troilus Feasibility Study COORDINATES: N: 5,652,418.3 m E: 536,589.5 m UTM NAD83 Zone 8  
 PROJECT NO.: 2257554002 GROUND / TUBE ELEV.: 378.82 m / 378.82 m  
 LOCATION: Troilus Mine, North of Chibougamau, Québec INC. / AZIMUTH: 90.0° / 0.0°  
 CONTRACTOR: Forage Pelletier EQUIPMENT: CME55

DEPTH (m)	DRILLING METHOD	STRATIGRAPHY		SAMPLES					GRAPH		LABORATORY AND IN SITU TESTS	INSTALLATION		
		ELEVATION (m) / DEPTH	DESCRIPTION	SYMBOL	TYPE - NUMBER	SUB - SAMPLE	DEPTH	STATE & CALIBER	RECOVERY (%)	BLOWS / 15 cm			N, Nc OR ROD	
378.82		0.00	Ground level (OH) ORGANIC SILT; dark brown; wet, very soft.		SS-1		N	28	1-0-1-0	1	X			
378.21		0.61	(SP) SAND; coarse; brown; wet, loose.		SS-2		B	34	1-1-7-6	8	X			
377.60		1.22	(SM) SILTY SAND; trace of gravel; greyish brown; wet, compact.		SS-3		B	43	5-6-50 / 2"	R		O		
377.21		1.61	COBBLES and BOULDERS.		SS-4		B		50 / 2"	R				
376.93		1.89	BEDROCK: slightly weathered; grey; excellent quality; fine grained INTERMEDIATE VOLCANIC ROCK.		RC-5		NQ	100						
375.63		3.19	End of borehole.											



w = 74%  
GSA HYD w = 22%

REMARK(S):

PREPARED BY: Cheikh Ndong, BluMetric Environnement  
 VERIFIED BY: Mathieu Gosselin



# BOREHOLE REPORT: BH-23-42

CLIENT: TROIILUS GOLD CORPORATION	DATE - BEG. / END: 2023-07-26
PROJECT: Troilus Feasibility Study	COORDINATES: N: 5,652,881.6 m E: 536,944.8 m UTM NAD83 Zone 18
PROJECT NO.: 2257554002	GROUND / TUBE ELEV.: 375.49 m / 375.49 m
LOCATION: Troilus Mine, North of Chibougamau, Québec	INC. / AZIMUTH: 90.0° / 0.0°
CONTRACTOR: Forage Pelletier	EQUIPMENT: CME55

DEPTH (m)	DRILLING METHOD	STRATIGRAPHY		SAMPLES				GRAPH		LABORATORY AND IN SITU TESTS	INSTALLATION		
		ELEVATION (m) / DEPTH	DESCRIPTION	SYMBOL	TYPE - NUMBER	SUB - SAMPLE	DEPTH	STATE & CALIBER	RECOVERY (%)			BLOWS / 15 cm	N, Nc OR ROD
375.49		0.00	Ground level (PT) Fibrous PEAT; dark brown; wet, very loose.	[Symbol]	SS--		N	0	8-0-1-1	1 X	GSA HYD w = 58%		
374.78		0.71	(ML) SILT; some sand; grey; wet, very loose.	[Symbol]	SS-1		B	41	1-0-0-29	HWK		O	
374.27		1.22	BEDROCK: slightly weathered, grey, excellent to good quality, coarse grained, massive, GABBRO.	[Symbol]	RC-2		NQ	97		97			
				[Symbol]	RC-3		NQ	100		87			
372.36		3.13	End of borehole.										

REMARK(S):

PREPARED BY: Cheikh Ndong, BluMetric Environnement  
 VERIFIED BY: Mathieu Gosselin

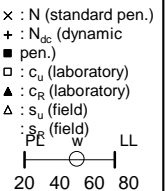
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# BOREHOLE REPORT: BH-23-43

CLIENT: TROIILUS GOLD CORPORATION	DATE - BEG. / END: 2023-07-27
PROJECT: Troilus Feasibility Study	COORDINATES: N: 5,652,041.5 m E: 537,551.2 m UTM NAD83 Zone 18
PROJECT NO.: 2257554002	GROUND / TUBE ELEV.: 371.51 m / 371.51 m
LOCATION: Troilus Mine, North of Chibougamau, Québec	INC. / AZIMUTH: 90.0° / 0.0°
CONTRACTOR: Forage Pelletier	EQUIPMENT: CME55

DEPTH (m)	DRILLING METHOD	STRATIGRAPHY		SAMPLES					GRAPH	LABORATORY AND IN SITU TESTS	INSTALLATION					
		ELEVATION (m) / DEPTH	DESCRIPTION	SYMBOL	TYPE - NUMBER	SUB - SAMPLE	DEPTH	STATE & CALIBER	RECOVERY (%)			BLOWS / 15 cm	N, Nc OR ROD			
		371.51	Ground level													
		0.00 371.25 0.25	FILL - (GM) Sandy SILTY GRAVEL; trace of clay; greyish brown; moist, very dense. Becoming with probable presence of cobbles and boulders due to high N values and inferred from drilling resistance.	[Symbol]	SS-1		N	96	23-50 / 4"	R						
1																
2																
3																
4																
5																
6																
7																
		363.89														
		7.62	(SM) SILTY SAND; grey; probable presence of cobbles due to high N values and inferred from drilling resistance; Till; wet, compact.	[Symbol]	SS-2		N	30	11-11-9-14	20	X					
8		363.28 8.23	compact. Becoming with some gravel; very dense.	[Symbol]	SS-3		N	33	7-22-40-38	62	X					
		8.84														



GSA  
HYD  
w = 2%

REMARK(S):

PREPARED BY: Cheikh Ndong, BluMetric Environnement  
 VERIFIED BY: Mathieu Gosselin

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# BOREHOLE REPORT: BH-23-43

CLIENT: TROIILUS GOLD CORPORATION      DATE - BEG. / END: 2023-07-27  
 PROJECT: Troilus Feasibility Study      COORDINATES: N: 5,652,041.5 m E: 537,551.2 m UTM NAD83 Zone 18  
 PROJECT NO.: 2257554002      GROUND / TUBE ELEV.: 371.51 m / 371.51 m  
 LOCATION: Troilus Mine, North of Chibougamau, Québec      INC. / AZIMUTH: 90.0° / 0.0°  
 CONTRACTOR: Forage Pelletier      EQUIPMENT: CME55

DEPTH (m)	DRILLING METHOD	STRATIGRAPHY			SAMPLES				GRAPH		LABORATORY AND IN SITU TESTS	INSTALLATION	
		ELEVATION (m) / DEPTH	DESCRIPTION	SYMBOL	TYPE - NUMBER	SUB - SAMPLE	DEPTH	STATE & CALIBER	RECOVERY (%)	BLOWS / 15 cm			N, Nc OR ROD
362.21		9.30	BEDROCK: fresh; black; poor quality; fined grained; INTERMEDIATE VOLCANIC ROCK.		SS-4	8.99	N	65	28-35-50-100 / 2"	85			
		9.35											
		360.99	Becoming fair quality.		RC-5	9.70	NQ	100		26			
		10.52											
		359.69	End of borehole.		RC-6	10.52	NQ	100		65			
		11.82											
10													
11													
12													
13													
14													
15													
16													
17													
18													

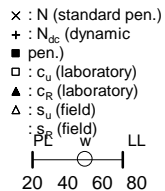
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# BOREHOLE REPORT: BH-23-44

CLIENT: TROIILUS GOLD CORPORATION	DATE - BEG. / END: 2023-04-03
PROJECT: Troilus Feasibility Study	COORDINATES: N: 5,653,385.0 m E: 537,930.3 m UTM NAD83 Zone 18
PROJECT NO.: 2257554002	GROUND / TUBE ELEV.: 362.25 m / 362.25 m
LOCATION: Troilus Mine, North of Chibougamau, Québec	INC. / AZIMUTH: 90.0° / 0.0°
CONTRACTOR: Forage Pelletier	EQUIPMENT: CME55

DEPTH (m)	DRILLING METHOD	STRATIGRAPHY			SAMPLES					GRAPH		LABORATORY AND IN SITU TESTS	INSTALLATION	
		ELEVATION (m) / DEPTH	DESCRIPTION	SYMBOL	TYPE - NUMBER	SUB - SAMPLE	DEPTH	STATE & CALIBER	RECOVERY (%)	BLOWS / 15 cm	N, Nc OR ROD			
362.25		0.00	Ground level SNOW.											
361.94		0.31	(PT) Sandy PEAT; dark brown; wet, loose.		SS-1	A	B	57	1-1-1-3	2	X			
361.49		0.76	(SM) SILTY SAND; sub-angular; some gravel; fine to coarse; grey, oxidized; moist, loose.		SS-2	B	B	34	1-0-6-7	6	X			
360.73		1.52	Becoming dense.		SS-3	B	B	36	23-23-13-12	36	O	X		
360.12		2.13	BEDROCK: Grey; fine grained, laminated; poor to fair quality INTERMEDIATE VOLCANIC ROCK. Centrimetric bands of felsic to mafic material. No sulphide. Some small quartz veins cross-cut the banding/foliation.		RC-4		NQ	75			26			
		2.79			RC-5		NQ	61				55		
357.70		4.55		Becoming excellent quality.		RC-6		NQ	100			95		
356.10		6.15	End of borehole.											



w = 10%

REMARK(S): Ground level surveyed : 361.937 m.

PREPARED BY: Zachary Morin  
 VERIFIED BY: Mathieu Gosselin

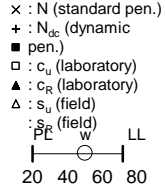
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# BOREHOLE REPORT: BH-23-45

CLIENT: TROIILUS GOLD CORPORATION	DATE - BEG. / END: 2023-03-28
PROJECT: Troilus Feasibility Study	COORDINATES: N: 5,654,207.7 m E: 538,267.1 m UTM NAD83 Zone 18
PROJECT NO.: 2257554002	GROUND / TUBE ELEV.: 362.21 m / 362.21 m
LOCATION: Troilus Mine, North of Chibougamau, Québec	INC. / AZIMUTH: 90.0° / 0.0°
CONTRACTOR: Forage Pelletier	EQUIPMENT: CME55

DEPTH (m)	DRILLING METHOD	STRATIGRAPHY		SAMPLES					GRAPH		LABORATORY AND IN SITU TESTS	INSTALLATION	
		ELEVATION (m) / DEPTH	DESCRIPTION	SYMBOL	TYPE - NUMBER	SUB - SAMPLE	DEPTH	STATE & CALIBER	RECOVERY (%)	BLOWS / 15 cm			N, Nc OR ROD
		362.21	Ground level										
1		0.00	(PT) Fibrous PEAT; dark brown; wet, very loose.		SS-1	B	B	66	1-1-1-4	2	X		
		361.45	(SM) Gravelly SILTY SAND, fine, sub-angular, poorly graded, some gravel, coarse, grey, unoxidized, wet, compact.		SS-2	B	52	19-12-7-9	19	OX			
	0.76												
2	1.37												
	1.52												
		1.37			SS-3	B	34	8-8-8-7	16	X			
	2.13												
		2.13			SS-4	B	0	5-3-3-3	6	X			
	2.29												
3		2.90	Becoming with probable presence of cobbles and boulders; dense.		SS-5	B	36	17-23-27-30	50	X			
	3.05												
		3.05	COBBLES		SS-6	A	0	/R					
4		3.66											
		3.66	BEDROCK: Medium grained; grey; good quality, IGNEOUS ROCK aphanitic matrix, with well-formed porphyroclasts, locally foliated, no sulphide.		SS-7	B	NQ	75	62				
	3.81												
		3.81			RC-8	NQ	100	86					
	3.86												
		3.86	End of borehole.										
	4.26												
5		4.26											
	4.99												
		4.99											
6		6.59											
		6.59											
7		6.59											



GSA  
HYD  
w = 13%

REMARK(S):

PREPARED BY: Zachary Morin  
 VERIFIED BY: Mathieu Gosselin

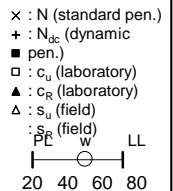
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# BOREHOLE REPORT: BH-23-46

CLIENT: TROIILUS GOLD CORPORATION	DATE - BEG. / END: 2023-03-27
PROJECT: Troilus Feasibility Study	COORDINATES: N: 5,653,819.4 m E: 538,572.4 m UTM NAD83 Zone 18
PROJECT NO.: 2257554002	GROUND / TUBE ELEV.: 359.89 m / 359.89 m
LOCATION: Troilus Mine, North of Chibougamau, Québec	INC. / AZIMUTH: 90.0° / 0.0°
CONTRACTOR: Forage Pelletier	EQUIPMENT: CME55

DEPTH (m)	DRILLING METHOD	STRATIGRAPHY		SAMPLES					GRAPH		LABORATORY AND IN SITU TESTS	INSTALLATION		
		ELEVATION (m) / DEPTH	DESCRIPTION	SYMBOL	TYPE - NUMBER	SUB - SAMPLE	DEPTH	STATE & CALIBER	RECOVERY (%)	BLOWS / 15 cm			N, Nc OR ROD	
		359.89	Ground level											
1		0.00	(PT) Sandy PEAT; dark brown, unoxidized; moist, loose.	[Symbol]	SS-1		B	48	2-2-8-9	10	X			
		359.13												
		0.76	(SM) SILTY SAND; sub-angular, gap graded; some gravel; greyish brown, unoxidized; presence of organic matters (5%); wet, compact.	[Symbol]	SS-2		B	41	22-6-5	11	X			
		358.37												
		1.52	Becoming very dense; probable presence of COBBLES.	[Symbol]	SS-3		B	50	50/R	R				
2		358.03												
		1.86	BEDROCK: Grey; fine grained, excellent quality, INTERMEDIATE TO MAFIC ROCK; strongly foliated, garnets smeared along foliation locally. No sulphide.	[Symbol]	RC-4		NQ	100						
		357.44												
3		2.45	Becoming fair quality. Presence of a 0.2m fault.	[Symbol]	RC-5		NQ	76						
		3.27		[Symbol]	RC-6		NQ	67						
4		3.87	End of borehole.											



w = 82%

REMARK(S):

PREPARED BY: Zachary Morin  
 VERIFIED BY: Mathieu Gosselin

WSP\_EN\_Log-Geo.sty



# BOREHOLE REPORT: BH-23-47

CLIENT: TROIILUS GOLD CORPORATION DATE - BEG. / END: 2023-04-03  
 PROJECT: Troilus Feasibility Study COORDINATES: N: 5,653,121.4 m E: 538,307.0 m UTM NAD83 Zone 18  
 PROJECT NO.: 2257554002 GROUND / TUBE ELEV.: 378.06 m / 378.06 m  
 LOCATION: Troilus Mine, North of Chibougamau, Québec INC. / AZIMUTH: 90.0° / 0.0°  
 CONTRACTOR: Forage Pelletier EQUIPMENT: CME55

DEPTH (m)	DRILLING METHOD	STRATIGRAPHY		SAMPLES					GRAPH		LABORATORY AND IN SITU TESTS	INSTALLATION		
		ELEVATION (m) / DEPTH	DESCRIPTION	SYMBOL	TYPE - NUMBER	SUB - SAMPLE	DEPTH	STATE & CALIBER	RECOVERY (%)	BLOWS / 15 cm			N, Nc OR ROD	
378.06		0.00	Ground level SNOW.											
377.75		0.31	(SP) SAND; orange-brown, oxidized; probable presence of cobbles; dry, compact.	SS-1	A	0.31	B	46	3-5-8-28	13	X			
377.30		0.76	Becoming very dense, wet.	SS-2	B	0.61	B	100	9-50 /R	R				
376.54		1.52	(SM) SILTY SAND; sub-angular, gap graded; some gravel; grey, unoxidized; probable presence of cobbles and boulders; moist, very dense.	SS-3	B	1.52	B	62	15-22-28-24	50	O		w = 11%	
374.25		3.81	Becoming oxidized; without presence of cobbles and boulders; dense.	SS-4	B	2.29	B	71	30-50 /R	R				
373.49		4.57	Becoming unoxidized.	SS-5	B	3.05	B	56	19-26-28-27	54				
372.73		5.33	Becoming very dense.	SS-6	B	3.66	B	59	9-17-18-23	35				
371.96		6.10	Becoming with presence of cobbles and boulders.	SS-7	B	4.42	B	48	20-21-22-49	43	O		GSA HYD w = 8%	
				SS-8	B	5.18	B	68	12-23-39-50 /R	62				
				RC-9	NQ	5.86	NQ	12		8				

REMARK(S): Ground level surveyed : 377.749 m.

PREPARED BY: Zachary Morin  
 VERIFIED BY: Mathieu Gosselin



# BOREHOLE REPORT: BH-23-47

CLIENT: TROIILUS GOLD CORPORATION	DATE - BEG. / END: 2023-04-03
PROJECT: Troilus Feasibility Study	COORDINATES: N: 5,653,121.4 m E: 538,307.0 m UTM NAD83 Zone 18
PROJECT NO.: 2257554002	GROUND / TUBE ELEV.: 378.06 m / 378.06 m
LOCATION: Troilus Mine, North of Chibougamau, Québec	INC. / AZIMUTH: 90.0° / 0.0°
CONTRACTOR: Forage Pelletier	EQUIPMENT: CME55

DEPTH (m)	DRILLING METHOD	STRATIGRAPHY		SAMPLES					GRAPH		LABORATORY AND IN SITU TESTS	INSTALLATION	
		ELEVATION (m) / DEPTH	DESCRIPTION	SYMBOL	TYPE - NUMBER	SUB - SAMPLE	DEPTH	STATE & CALIBER	RECOVERY (%)	BLOWS / 15 cm			N, Nc OR ROD
8													
9													
10													
11		367.32 10.74	Becoming wet.		SS-12								
12		366.55 11.51	BEDROCK: White to pinkish; no fabric; coarse grained, good quality, GRANITE.		RC-13								
13		365.82 12.24	Becoming excellent quality.		RC-14								
14		364.30 13.76	End of borehole.										

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# BOREHOLE REPORT: BH-23-48

CLIENT: TROIILUS GOLD CORPORATION	DATE - BEG. / END: 2023-04-04
PROJECT: Troilus Feasibility Study	COORDINATES: N: 5,652,886.7 m E: 538,731.9 m UTM NAD83 Zone 18
PROJECT NO.: 2257554002	GROUND / TUBE ELEV.: 354.24 m / 354.24 m
LOCATION: Troilus Mine, North of Chibougamau, Québec	INC. / AZIMUTH: 90.0° / 0.0°
CONTRACTOR: Forage Pelletier	EQUIPMENT: CME55

DEPTH (m)	DRILLING METHOD	STRATIGRAPHY		SAMPLES					GRAPH		LABORATORY AND IN SITU TESTS	INSTALLATION	
		ELEVATION (m) / DEPTH	DESCRIPTION	SYMBOL	TYPE - NUMBER	SUB - SAMPLE	DEPTH	STATE & CALIBER	RECOVERY (%)	BLOWS / 15 cm			N, Nc OR ROD
		354.24	Ground level										
1		0.00	(PT) Fibrous PEAT; trace of gravel; dark brown; presence of cobbles and boulders; wet, very loose to compact.		SS-1		B	0	1-1-1-1	2	X		
		0.53											
		0.61											
		0.76			RC-3		NQ	100		100			
		1.09			SS-2			36	6-9-8-3	17	X		
2		352.87	(SM) Gravelly SILTY SAND; gap graded; light brownish grey; presence of cobbles and boulders; wet, very dense										
		1.37			RC-4		NQ	34		7			
3		351.52	Becoming brownish grey; dense.										
		2.72			RC-5		NQ	22		0			
4													
		3.89											
		3.96			SS-6		B	52	19-20-13-19	33	O X	GSA HYD w = 15%	
5		349.67	Becoming very dense.										
		4.57			A								
		5.13	BEDROCK: White-pink; no fabric; coarse grained, good quality, GRANITE.		RC-7		NQ	100		53			
6		348.63	Becoming oxidized.										
		5.61			B								
		5.61			RC-8		NQ	100		86			
7		347.08	End of borehole.										
		7.16											

REMARK(S):

PREPARED BY: Zachary Morin  
 VERIFIED BY: Mathieu Gosselin

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# BOREHOLE REPORT: BH-23-50

CLIENT: TROIILUS GOLD CORPORATION	DATE - BEG. / END: 2023-04-04
PROJECT: Troilus Feasibility Study	COORDINATES: N: 5,652,482.3 m E: 539,865.8 m UTM NAD83 Zone 18
PROJECT NO.: 2257554002	GROUND / TUBE ELEV.: 358.48 m / 358.48 m
LOCATION: Troilus Mine, North of Chibougamau, Québec	INC. / AZIMUTH: 90.0° / 0.0°
CONTRACTOR: Forage Pelletier	EQUIPMENT: CME55

DEPTH (m)	DRILLING METHOD	STRATIGRAPHY		SAMPLES					GRAPH		LABORATORY AND IN SITU TESTS	INSTALLATION	
		ELEVATION (m) / DEPTH	DESCRIPTION	SYMBOL	TYPE - NUMBER	SUB - SAMPLE	DEPTH	STATE & CALIBER	RECOVERY (%)	BLOWS / 15 cm			N, Nc OR ROD
		358.48	Ground level										
1		0.00	FILL - (SP) SAND; fine; trace of gravel; grey, oxidized; moist, very dense.										
		0.76			SS-1		B	71	42-50 / R	R			
		1.04											
		1.52	Becoming compact.		A								
2		356.65	(SP) SAND; fine; light grey, unoxidized; dry, compact.		SS-2		B	52	15-14-13-10	27			w = 6%
		1.83											
		2.13			B								
		2.29	Becoming with cobbles and boulders										
3		356.19			RC-3								
		2.29											
		3.00											
		3.00											
		3.00											
4		354.16			RC-4								
		4.32											
		4.32			A								
		4.57											
		4.57											
5		353.91	BEDROCK: Pink-white; no fabric; coarse grained, fair quality, GRANITE.										
		4.57	Becoming excellent quality.										
		4.57											
		4.57											
		4.57											
6		352.39			RC-5								
		6.09											
		6.09											
		6.09	End of borehole.										

REMARK(S):

PREPARED BY: Zachary Morin  
 VERIFIED BY: Mathieu Gosselin

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# BOREHOLE REPORT: BH-23-51

CLIENT: TROIILUS GOLD CORPORATION	DATE - BEG. / END: 2023-03-31
PROJECT: Troilus Feasibility Study	COORDINATES: N: 5,652,140.5 m E: 539,356.3 m UTM NAD83 Zone 18
PROJECT NO.: 2257554002	GROUND / TUBE ELEV.: 357.79 m / 357.79 m
LOCATION: Troilus Mine, North of Chibougamau,	INC. / AZIMUTH: 90.0° / 0.0°
CONTRACTOR: Forage Pelletier	EQUIPMENT: CME55

DEPTH (m)	DRILLING METHOD	STRATIGRAPHY		SAMPLES					GRAPH		LABORATORY AND IN SITU TESTS	INSTALLATION		
		ELEVATION (m) / DEPTH	DESCRIPTION	SYMBOL	TYPE - NUMBER	SUB - SAMPLE	DEPTH	STATE & CALIBER	RECOVERY (%)	BLOWS / 15 cm			N, Nc OR ROD	
		357.79	Ground level											
1		0.00 357.64 0.15	(PT) Fibrous PEAT; dark brown; wet, loose.		SS-1	A	B	21	0-1-3-4	4	X			
		0.15	(SM) SILTY SAND; poorly graded; beige; presence of organic matters; wet, loose.		SS-1	B								
		357.03 0.76 356.72	Becoming compact.		SS-2	A	B	41	2-4-4-4	8	X			w = 22%
		1.07	(ML) SANDY SILT; no plasticity; fine, poorly graded; grey; wet, compact.		SS-2	B								
2		356.27 1.52	Becoming loose.		SS-3		B	52	6-4-6-5	10	X			
		355.50 2.29	Becoming greyish-brown, oxidized.		SS-4		B	52	2-4-3-4	7	X			
3		2.90 3.05			SS-5		B	56	5-3-3-4	6	X			GSA HYD w = 24%
4		354.13 3.66	Black BOULDERS		RC-6		NQ	100		90				
5		353.08 4.71	(SP) SAND; presence of cobbles and boulders.		RC-7		NQ	52		28				
6		351.56 6.23	BEDROCK: Pink red; coarse grained, excellent quality, GRANITE.		RC-8		NQ	100		100				
7		7.69			RC-9		NQ	100		100				
8		9.21												
9		348.57 9.22	End of borehole.											

REMARK(S):

PREPARED BY: Zachary Morin  
 VERIFIED BY: Mathieu Gosselin

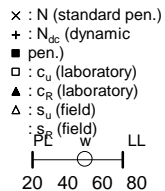
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# BOREHOLE REPORT: BH-23-52

CLIENT: TROIILUS GOLD CORPORATION	DATE - BEG. / END: 2023-07-29
PROJECT: Troilus Feasibility Study	COORDINATES: N: 5,652,272.9 m E: 539,830.1 m UTM NAD83 Zone 18
PROJECT NO.: 2257554002	GROUND / TUBE ELEV.: 357.25 m / 357.25 m
LOCATION: Troilus Mine, North of Chibougamau, Québec	INC. / AZIMUTH: 90.0° / 0.0°
CONTRACTOR: Forage Pelletier	EQUIPMENT: CME55

DEPTH (m)	DRILLING METHOD	STRATIGRAPHY			SAMPLES				GRAPH		LABORATORY AND IN SITU TESTS	INSTALLATION	
		ELEVATION (m) / DEPTH	DESCRIPTION	SYMBOL	TYPE - NUMBER	SUB - SAMPLE	DEPTH	STATE & CALIBER	RECOVERY (%)	BLOWS / 15 cm			N, Nc OR ROD
0.00		357.25	Ground level										
0.06		357.19	(PT) Fibrous PEAT; dark brown; moist, soft.		SS-1	N	49	1-1-3-3	4	X			
0.61		356.64	(SM) SILTY SAND; brown; moist, loose. Becoming grey; wet.		SS-2	B	67	7-3-2-2	5	X			
1.22		356.03	(SW) SAND; some silt; grey; wet, very loose to loose.		SS-3	B	82	6-4-5-3	9	X			
1.83					SS-4	B	66	3-2-1-2	3	X			
2.44		354.81	(SM) SILTY SAND; grey; wet, loose.		SS-5	B	90	1-2-2-3	4	X	O		
3.05					SS-6	B	87	2-2-3-1	5	X			
3.66					SS-7	B	66	2-2-2-3	4	X			
4.27					SS-8	B	46	1-2-1-2	3	X			
4.88					SS-9	B	36	3-2-3-3	5	X			
5.49					SS-10	B	52	2-3-2-1	5	X			
6.10					SS-11	B	42	3-2-2-1	4	X			
6.71					SS-12	B	50	4-2-2-1	4	X			
7.32					SS-13	B	64	3-2-4-3	6	X			
7.92					SS-14	B	52	10-4-1-6	5	X			
8.53		348.71	Becoming with trace of gravel; compact.		SS-15	B	49	9-5-10-15	15	X			
9.14		348.10	BEDROCK: fresh; pink-grey; excellent quality; coarse grained, massive GRANITE.		RC-16	NQ	100		100				
10.76		346.49	End of borehole.										



G<sub>s</sub> = 2.524  
 GSA  
 HYD  
 GSA  
 w = 21%

REMARK(S):

PREPARED BY: Cheikh Ndong, BluMetric Environnement  
 VERIFIED BY: Mathieu Gosselin



# BOREHOLE REPORT: BH-23-53

CLIENT: TROIILUS GOLD CORPORATION DATE - BEG. / END: 2023-07-20  
 PROJECT: Troilus Feasibility Study COORDINATES: N: 5,651,762.6 m E: 538,991.0 m UTM NAD83 Zone 18  
 PROJECT NO.: 2257554002 GROUND / TUBE ELEV.: 369.91 m / 369.91 m  
 LOCATION: Troilus Mine, North of Chibougamau, Québec INC. / AZIMUTH: 90.0° / 0.0°  
 CONTRACTOR: Forage Pelletier EQUIPMENT: CME55

DEPTH (m)	DRILLING METHOD	STRATIGRAPHY		SAMPLES					GRAPH		LABORATORY AND IN SITU TESTS	INSTALLATION	
		ELEVATION (m) / DEPTH	DESCRIPTION	SYMBOL	TYPE - NUMBER	SUB - SAMPLE	DEPTH	STATE & CALIBER	RECOVERY (%)	BLOWS / 15 cm			N, Nc OR ROD
369.91			Ground level										
0.00			(PT) Fibrous PEAT; moist, compact.		SS--		N	18	12-15-5-7	20	X		
369.30		0.61	(ML-SW) SILT and SAND; grey; presence of cobbles and boulders inferred from drilling resistance; wet, compact.		SS-1		N	41	5-6-5-4	11	X O		GSA HYD w = 23%
368.69		1.22	(SW) SAND; medium to coarse; trace of gravel; grey; wet, loose.		SS-2		B	77	1-2-2-4	4	X		
		1.83			SS-3		B	39	5-4-5-5	9	X		
		2.44			SS-4		B	46	2-4-5-4	9	X		
		3.05			SS-5		B	48	4-4-5-6	9	X O		w = 21%
366.25		3.66	(SM) SILTY SAND; trace of gravel; grey; wet, loose.		SS-6		B	51	4-4-6-8	10	X		
365.64		4.27	(SW) SAND; medium to coarse; trace of gravel; grey; wet, compact.		SS-7		B	44	6-6-8-8	14	X		
		4.88			SS-8		B	44	5-6-9-10	15	X		
364.42		5.49	Becoming with some gravel; compact to loose.		SS-9		B	31	8-12-12-11	24	X		
		6.10			SS---		B	0	9-7-6-10	13	X		
		6.71											
		7.62			SS-10		B	26	6-5-3-4	8	X		
		8.23											
		9.15	(SM-GP) SILTY SAND and GRAVEL; grey; wet, compact.		SS-11		B	32	13-9-17-17	26	X		
		360.15	Becoming with presence of COBBLES.										
		9.76											
		359.65											
		10.26	BEDROCK: slightly weathered; fair quality, coarse grained, massive GRANITE.		RC-12		NQ	75		51			
		359.16	Becoming excellent quality.										
		10.75			RC-13		NQ	100		100			
		357.63											
		12.28	End of borehole.										

REMARK(S):

PREPARED BY: Cheikh Ndong, BluMetric Environnement  
 VERIFIED BY: Mathieu Gosselin



# BOREHOLE REPORT: BH-23-56

CLIENT: TROIILUS GOLD CORPORATION	DATE - BEG. / END: 2023-07-20
PROJECT: Troilus Feasibility Study	COORDINATES: N: 5,651,351.2 m E: 538,636.5 m UTM NAD83 Zone 18
PROJECT NO.: 2257554002	GROUND / TUBE ELEV.: 376.53 m / 376.53 m
LOCATION: Troilus Mine, North of Chibougamau	INC. / AZIMUTH: 90.0° / 0.0°
CONTRACTOR: Forage Pelletier	EQUIPMENT: CME55

DEPTH (m)	DRILLING METHOD	STRATIGRAPHY		SAMPLES					GRAPH		LABORATORY AND IN SITU TESTS	INSTALLATION	
		ELEVATION (m) / DEPTH	DESCRIPTION	SYMBOL	TYPE - NUMBER	SUB - SAMPLE	DEPTH	STATE & CALIBER	RECOVERY (%)	BLOWS / 15 cm			N, Nc OR ROD
		376.53	Ground level										
1		0.00	(SP) SAND; medium to coarse; brown; moist, loose.		SS-1	N	30	1-1-4-6	5	X		Gs = 2.688 GSA w = 3%	
		0.61			SS-2	B	64	4-5-5-4	10	O			
		1.22	Becoming wet.		SS-3	B	44	3-3-3-4	6	X			
2		1.83			SS-4	B	41	2-2-2-3	4	X			
		2.44			SS-5	B	39	2-2-1-1	3	X			
3		3.05	(SM) SILTY SAND; brown; moist, loose.		SS-6	B	49	1-3-1-2	4	X	O		GSA HYD w = 25%
4		3.68	BEDROCK: fresh; excellent quality coarse grained, massive GRANITE.		SS-7	NQ	0	50 / 1" - R					
		3.68			RC-8	NQ	100		100				
5		4.88	End of borehole.										

REMARK(S):

PREPARED BY: Cheikh Ndong, BluMetric Environnement  
 VERIFIED BY: Mathieu Gosselin

PAGE: 1 of 1  
DATE: 2024-04-12

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# BOREHOLE REPORT: BH-23-59

CLIENT: TROIILUS GOLD CORPORATION DATE - BEG. / END: 2023-07-22  
 PROJECT: Troilus Feasibility Study COORDINATES: N: 5,650,848.3 m E: 538,119.0 m UTM NAD83 Zone 18  
 PROJECT NO.: 2257554002 GROUND / TUBE ELEV.: 386.23 m / 386.23 m  
 LOCATION: Troilus Mine, North of Chibougamau INC. / AZIMUTH: 90.0° / 0.0°  
 CONTRACTOR: Forage Pelletier EQUIPMENT: CME55

DEPTH (m)	DRILLING METHOD	STRATIGRAPHY		SAMPLES					GRAPH		LABORATORY AND IN SITU TESTS	INSTALLATION		
		ELEVATION (m) / DEPTH	DESCRIPTION	SYMBOL	TYPE - NUMBER	SUB - SAMPLE	DEPTH	STATE & CALIBER	RECOVERY (%)	BLOWS / 15 cm			N, Nc OR ROD	
		386.23	Ground level											
1		0.00 385.62 0.61	FILL - (SP) SAND; medium; trace of gravel; dark brown; probable presence of cobbles; Till; moist, compact. Becoming with presence of BOULDERS.		SS-1		N	56	6-12-14-20	26	O X		w = 10%	
2		384.65 1.58	(SP-GP) SAND and GRAVEL; some silt; brown; wet, compact.		SS-2		N	20	7-3-8-16	11	X			
3		384.04 2.19 383.73 2.50	(SW) SAND; some gravel and silt; grey; wet, compact. BEDROCK: fresh; dark grey; excellent quality, fine grained VOLCANIC INTERMEDIATE ROCK.	 	SS-3 RC-4 RC-5		N NQ NQ	68 100 100	12-50 / 5"	R 93 96	O		GSA w = 19%	
5		381.63 4.60	End of borehole.											

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REMARK(S):

PREPARED BY: Cheikh Ndong, BluMetric Environnement  
 VERIFIED BY: Mathieu Gosselin

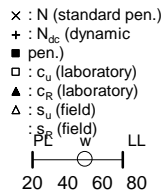
PAGE: 1 of 1  
 DATE: 2024-04-12



# BOREHOLE REPORT: BH-23-71

CLIENT: TROIILUS GOLD CORPORATION	DATE - BEG. / END: 2023-07-25
PROJECT: Troilus Feasibility Study	COORDINATES: N: 5,653,522.2 m E: 537,296.2 m UTM NAD83 Zone 18
PROJECT NO.: 2257554002	GROUND / TUBE ELEV.: 380.39 m / 380.39 m
LOCATION: Troilus Mine, North of Chibougamau, Québec	INC. / AZIMUTH: 90.0° / 0.0°
CONTRACTOR: Forage Pelletier	EQUIPMENT: CME55

DEPTH (m)	DRILLING METHOD	STRATIGRAPHY		SAMPLES				GRAPH		LABORATORY AND IN SITU TESTS	INSTALLATION		
		ELEVATION (m) / DEPTH	DESCRIPTION	SYMBOL	TYPE - NUMBER	SUB - SAMPLE	DEPTH	STATE & CALIBER	RECOVERY (%)			BLOWS / 15 cm	N, Nc OR ROD
380.39		0.00	Ground level (PT) Sandy PEAT; dark brown; presence of pieces of wood; moist, very soft.		SS-1		N	57	1-0-0-5	HW	GSA HYD w = 382%		
		0.61			SS--		B	0	1-0-0-4	HW			
379.17		1.22	(SM) Gravelly SILTY SAND; trace of clay; grey; till; wet, loose.		SS-2		B	44	0-2-6-7	8	GSA HYD w = 8%		
378.56		1.83	Becoming compact and with probable presence of cobbles.		SS-3		B	66	12-13-16-17	29			
		2.44			SS-4		B	56	26-31-36-21	67			
377.34		3.05	BEDROCK: fresh; grey; poor quality, medium grained INTERMEDIATE VOLCANIC ROCK.		RC-5		NQ	100		29			
377.09		3.30	Becoming excellent quality.		RC-6		NQ	100		100			
375.64		4.75	End of borehole.										



REMARK(S):

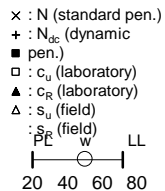
PREPARED BY: Cheikh Ndong, BluMetric Environnement  
 VERIFIED BY: Mathieu Gosselin



# BOREHOLE REPORT: BH-23-72

CLIENT: TROIILUS GOLD CORPORATION	DATE - BEG. / END: 2023-07-25
PROJECT: Troilus Feasibility Study	COORDINATES: N: 5,653,836.7 m E: 537,693.0 m UTM NAD83 Zone 18
PROJECT NO.: 2257554002	GROUND / TUBE ELEV.: 383.41 m / 383.41 m
LOCATION: Troilus Mine, North of Chibougamau, Québec	INC. / AZIMUTH: 90.0°
CONTRACTOR: Forage Pelletier	EQUIPMENT: CME55

DEPTH (m)	DRILLING METHOD	STRATIGRAPHY		SAMPLES				GRAPH		LABORATORY AND IN SITU TESTS	INSTALLATION				
		ELEVATION (m) / DEPTH	DESCRIPTION	SYMBOL	TYPE - NUMBER	SUB - SAMPLE	DEPTH	STATE & CALIBER	RECOVERY (%)			BLOWS / 15 cm	N, Nc OR ROD		
		383.41	Ground level												
1		0.00	(OH) ORGANIC SILT; brown; presence of piece of wood; moist, very soft.		SS--		N	10	1-0-1-3	1	X				
		382.80													
		0.61	(SM) SILTY SAND; trace of gravel; grey; probable presence of cobbles; Till; wet, compact.		SS-1		B	46	6-9-7-10	16	X				
		1.22			SS-2		B	80	25-11-6-7	17	O				
2		381.58	(SM) SILTY SAND; some gravel; grey; probable presence of cobbles; Till; wet, compact.		SS-3		B	71	2-6-4-4	10	X				
		1.83			SS-4		B	61	23-12-8-14	20	X				
3		3.05			SS---		B	0	8-7-6-7	13	X				
		3.66			SS-5		B	72	6-8-5-4	13	X				
4		4.27			SS-6		B	95	13-10-13-9	23	X				
5		4.88			SS-7		B	72	14-14-15-18	29	X				
		5.49	Becoming dense.		SS-8		B	64	15-17-24-22	41	X				
6		6.10			SS-9		B	62	26-26-24-20	50	X				
		6.71			SS-10		B	97	19-18-18-19	36	O				
7		7.32			SS-11		B	69	15-22-16-18	38	X				
		7.92			SS-12		B		16-20-11-24	31	X				
8		8.53	Becoming very dense.		SS-13		B	100	21-28-39-49	67	X				
		9.14			SS-14		B	61	45-50 /1"-R	R					
9		9.47													



Gs = 2.70  
GSA  
HYD  
w = 11%

GSA  
HYD  
w = 7%

REMARK(S):

PREPARED BY: Cheikh Ndong, BluMetric Environnement  
 VERIFIED BY: Mathieu Gosselin

PAGE: 1 of 2  
DATE: 2024-04-12

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# BOREHOLE REPORT: BH-23-72

CLIENT: TROIILUS GOLD CORPORATION	DATE - BEG. / END: 2023-07-25
PROJECT: Troilus Feasibility Study	COORDINATES: N: 5,653,836.7 m E: 537,693.0 m UTM NAD83 Zone 18
PROJECT NO.: 2257554002	GROUND / TUBE ELEV.: 383.41 m / 383.41 m
LOCATION: Troilus Mine, North of Chibougamau, Québec	INC. / AZIMUTH: 90.0°
CONTRACTOR: Forage Pelletier	EQUIPMENT: CME55

DEPTH (m)	DRILLING METHOD	STRATIGRAPHY			SAMPLES					GRAPH				LABORATORY AND IN SITU TESTS	INSTALLATION	
		ELEVATION (m) / DEPTH	DESCRIPTION	SYMBOL	TYPE - NUMBER	SUB - SAMPLE	DEPTH	STATE & CALIBER	RECOVERY (%)	BLOWS / 15 cm	N, Nc OR ROD					
		373.09										x : N (standard pen.) + : N <sub>dc</sub> (dynamic pen.) ■ : c <sub>u</sub> (laboratory) □ : c <sub>R</sub> (laboratory) ▲ : s <sub>u</sub> (field) △ : s <sub>p</sub> (field) ○ : P <sub>w</sub> LL 				
11		10.32 372.87 10.54 372.71 10.70	BEDROCK: fresh; pink; fair quality, coarse grained, massive, GRANITE.		RC-15		NQ	100		53						
12			BEDROCK: fresh; black; fair quality, fine grained, VOLCANIC INTERMEDIATE ROCK.		RC-16		NQ	100		84						
		371.18 12.23	End of borehole.													
13																
14																
15																
16																
17																
18																
19																
20																

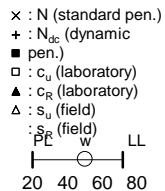
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# BOREHOLE REPORT: BH-23-73

CLIENT: TROIILUS GOLD CORPORATION	DATE - BEG. / END: 2023-07-25
PROJECT: Troilus Feasibility Study	COORDINATES: N: 5,654,148.3 m E: 538,081.6 m UTM NAD83 Zone 18
PROJECT NO.: 2257554002	GROUND / TUBE ELEV.: 370.18 m / 370.18 m
LOCATION: Troilus Mine, North of Chibougamau, Québec	INC. / AZIMUTH: 90.0° / 0.0°
CONTRACTOR: Forage Pelletier	EQUIPMENT: CME55

DEPTH (m)	DRILLING METHOD	STRATIGRAPHY		SAMPLES				GRAPH		LABORATORY AND IN SITU TESTS	INSTALLATION				
		ELEVATION (m) / DEPTH	DESCRIPTION	SYMBOL	TYPE - NUMBER	SUB - SAMPLE	DEPTH	STATE & CALIBER	RECOVERY (%)			BLOWS / 15 cm	N, Nc OR ROD		
370.18			Ground level												
0.00 370.04			(PT) Fibrous PEAT; dark brown; moist, very loose.		SS-1		N	84	1-0-1-2	1	X				
0.14 369.57			(SW) SAND; medium to coarse; some silt; trace of gravel; grey; moist, very loose.		SS-2		B	87	6-10-11-13	21	X				
0.61 368.96			Becoming compact.		SS-3		B	54	12-16-13-11	29	X				
1.22 368.35			(SM) SILTY SAND; some gravel; trace of clay; grey; probable presence of cobbles; Till; wet, compact.		SS--		B	0	18-30-35-38	65	X				
1.83 367.74			Becoming very dense.		SS-4		B	92	20-20-19-18	39	O	X			
2.44 367.13			Becoming dense.		SS-5		B	98	15-13-14-15	27	X				
3.05 366.52			Becoming compact.		SS-6		B	85	16-16-10-9	26	X				
3.66 366.92			Becoming dense.		SS-7		B	90	7-11-16-17	27	X				
4.27 366.39					SS-8		B	100	11-23-15-13	38	X				
4.88 365.92					SS-9		B	100	14-14-23-28	37	X				
5.49 365.52					SS-10		B	0	50/5'-R	R	X				
6.10 6.26			BEDROCK: fresh; grey; good quality, fine grained, INTERMEDIATE VOLCANIC ROCK.		RC-11		NQ	100							
6.26 362.39															
7.79			End of borehole.												



GSA  
HYD  
w = 11%

REMARK(S):

PREPARED BY: Cheikh Ndong, BluMetric Environnement  
 VERIFIED BY: Mathieu Gosselin

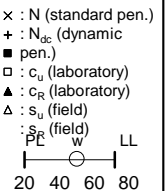
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# BOREHOLE REPORT: BH-23-74

CLIENT: TROIILUS GOLD CORPORATION	DATE - BEG. / END: 2023-07-25
PROJECT: Troilus Feasibility Study	COORDINATES: N: 5,653,949.1 m E: 539,211.4 m UTM NAD83 Zone 18
PROJECT NO.: 2257554002	GROUND / TUBE ELEV.: 354.79 m / 354.79 m
LOCATION: Troilus Mine, North of Chibougamau, Québec	INC. / AZIMUTH: 90.0° / 0.0°
CONTRACTOR: Forage Pelletier	EQUIPMENT: CME55

DEPTH (m)	DRILLING METHOD	STRATIGRAPHY		SAMPLES					GRAPH		LABORATORY AND IN SITU TESTS	INSTALLATION	
		ELEVATION (m) / DEPTH	DESCRIPTION	SYMBOL	TYPE - NUMBER	SUB - SAMPLE	DEPTH	STATE & CALIBER	RECOVERY (%)	BLOWS / 15 cm			N, Nc OR ROD
		354.79	Ground level										
		0.00	(PT) Fibrous PEAT; dark brown; wet, very soft.	~	SS-1		N	8	1-0-1-1	1			
		354.18	COBBLES.	◀	SS-2		B	100	50 / 1"	R			
		0.61											
		354.06	BEDROCK: fresh; pink; excellent quality coarse grained, massive, GRANITE.	▨	RC-3		NQ	100			93		
1		0.73											
		1.48			RC-4		NQ	100			100		
2													
3		351.78	End of borehole.										
		3.01											
4													



REMARK(S):

PREPARED BY: Cheikh Ndong, BluMetric Environnement  
 VERIFIED BY: Mathieu Gosselin

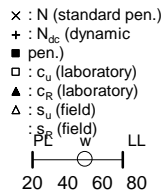
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# BOREHOLE REPORT: BH-23-77

CLIENT: TROIILUS GOLD CORPORATION	DATE - BEG. / END: 2023-07-24
PROJECT: Troilus Feasibility Study	COORDINATES: N: 5,647,397.8 m E: 535,043.5 m UTM NAD83 Zone 18
PROJECT NO.: 2257554002	GROUND / TUBE ELEV.: 411.18 m / 411.18 m
LOCATION: Troilus Mine, North of Chibougamau, Québec	INC. / AZIMUTH: 90.0° / 0.0°
CONTRACTOR: Forage Pelletier	EQUIPMENT: CME55

DEPTH (m)	DRILLING METHOD	STRATIGRAPHY		SAMPLES					GRAPH		LABORATORY AND IN SITU TESTS	INSTALLATION	
		ELEVATION (m) / DEPTH	DESCRIPTION	SYMBOL	TYPE - NUMBER	SUB - SAMPLE	DEPTH	STATE & CALIBER	RECOVERY (%)	BLOWS / 15 cm			N, Nc OR ROD
411.18			Ground level										
0.00			(PT) Fibrous PEAT; dank brown; moist, stiff.	[Symbol]	SS-1		N	18	2-4-7-9	11	X		
410.57			(SM) Gravelly SILTY SAND; trace of clay; grey-brown; Till; moist, compact.	[Symbol]	SS-2		B	52	6-11-9-8	20	O		
0.61													
409.96			Becoming grey; wet and dense.		SS-3		B	43	27-19-13-11	32	X		
1.22													
409.35			Becoming with probable presence of cobbles; Till; wet, compact to very dense.	[Symbol]	SS-4		B	48	18-17-10-7	27	X		
1.83													
2.44					SS-5		B	0	36-50 / 4"	R			
2.69													
3.05					SS-6		B	39	50 / 3"	R			
3.13													
407.81			BEDROCK: slightly weathered, grey, good quality, fine grained, INTERMEDIATE VOLCANIC ROCK.	[Symbol]	RC-7		NQ	100		76			
3.37													
406.38			End of borehole.										
4.80													



Gs = 2.69  
GSA  
HYD  
w = 10%

REMARK(S):

PREPARED BY: Cheikh Ndong, BluMetric Environnement  
VERIFIED BY: Mathieu Gosselin



# BOREHOLE REPORT: BH-23-78

CLIENT: TROIILUS GOLD CORPORATION	DATE - BEG. / END: 2023-07-29
PROJECT: Troilus Feasibility Study	COORDINATES: N: 5,647,040.9 m E: 534,177.8 m UTM NAD83 Zone 18
PROJECT NO.: 2257554002	GROUND / TUBE ELEV.: 400.39 m / 400.39 m
LOCATION: Troilus Mine, North of Chibougamau, Québec	INC. / AZIMUTH: 90.0° / 0.0°
CONTRACTOR: Forage Pelletier	EQUIPMENT: CME55

DEPTH (m)	DRILLING METHOD	STRATIGRAPHY		SAMPLES					GRAPH	LABORATORY AND IN SITU TESTS	INSTALLATION				
		ELEVATION (m) / DEPTH	DESCRIPTION	SYMBOL	TYPE - NUMBER	SUB - SAMPLE	DEPTH	STATE & CALIBER	RECOVERY (%)			BLOWS / 15 cm	N, Nc OR ROD	x : N (standard pen.) + : N <sub>dc</sub> (dynamic pen.) ■ : c <sub>u</sub> (laboratory) ▲ : c <sub>R</sub> (laboratory) Δ : s <sub>u</sub> (field) ○ : s <sub>w</sub> (field) LL 20 40 60 80	
		400.39	Ground level												
1		0.00	(SM) Gravelly SILTY SAND; trace of clay; grey-brown; presence of organic matter (wood) and cobbles; moist, compact.		SS-1		N	33	4-7-16-17	23					
		399.78	Becoming light brown; without organic matter; very dense.		SS-2		B	49	20-26-32-31	58					
		0.61													
		399.17	Becoming wet, dense.		SS-3		B	49	15-16-19-18	35					
		1.22													
2		398.56	(SM) SILTY SAND; fine to coarse; some gravel; grey; probable presence of cobbles; Till; wet, dense.		SS-4		B	48	12-22-16-19	38					
		1.83													
		397.92	BEDROCK: fresh; grey; good quality fine grained, INTERMEDIATE VOLCANIC ROCK.		SS-5				0	50 / 1"	R				
		2.47													
3					RC-6		NQ	100			88				
4		396.27	End of borehole.												
		4.12													
5															

REMARK(S):

PREPARED BY: Cheikh Ndong, BluMetric Environnement  
 VERIFIED BY: Mathieu Gosselin

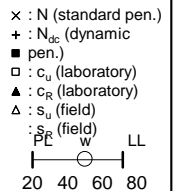
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# BOREHOLE REPORT: BH-23-79

CLIENT: TROIILUS GOLD CORPORATION	DATE - BEG. / END: 2023-07-24
PROJECT: Troilus Feasibility Study	COORDINATES: N: 5,647,688.8 m E: 534,774.8 m UTM NAD83 Zone 18
PROJECT NO.: 2257554002	GROUND / TUBE ELEV.: 395.83 m / 395.83 m
LOCATION: Troilus Mine, North of Chibougamau, Québec	INC. / AZIMUTH: 90.0° / 0.0°
CONTRACTOR: Forage Pelletier	EQUIPMENT: CME55

DEPTH (m)	DRILLING METHOD	STRATIGRAPHY		SAMPLES				GRAPH		LABORATORY AND IN SITU TESTS	INSTALLATION				
		ELEVATION (m) / DEPTH	DESCRIPTION	SYMBOL	TYPE - NUMBER	SUB - SAMPLE	DEPTH	STATE & CALIBER	RECOVERY (%)			BLOWS / 15 cm	N, Nc OR ROD		
		395.83	Ground level												
1		0.00	(SM) SILTY SAND; some gravel; trace of clay; brown-grey; moist, compact.		SS-1		N	82	1-3-10-13	13					
		395.22	0.61	Becoming grey and dense.			B	80	12-16-27-21	43					
		394.61	1.22	Becoming with trace of gravel.			B	66	12-23-22-22	45					
2		1.83					B	64	10-17-20-32	37					
		393.39	2.44	Becoming very dense; with probable presence of cobbles.			B	41	16-28-36-50 /5"	R					
3		3.05					B	59	12-17-18-15	35					
		392.78	3.66	Becoming compact.			B	62	12-11-10-13	21					
4		4.27					B	0	6-6-5-5	11					
		390.95	4.88	Becoming loose and without cobbles.			B	38	6-6-5-5	11					
5		5.49					B	0	6-4-4-5	8					
		389.73	6.10	Becoming with some gravel; compact.			B	5	9-6-8-5	14					
6		6.71					B	28	9-8-5-4	13					
		388.51	7.32	Becoming loose.			B	33	6-4-5-7	9					
7		7.93					B	57	5-12-16-11	28					
		387.90	8.54	Becoming compact and with cobbles.			B	33	16-15-11-6	26					
8		9.15													
		386.68	9.15	Becoming with cobbles and boulders.											
9		10.57					B	49	6-20-50 /2"	R					
10		10.92													
11															



GSA  
HYD  
w = 11%

REMARK(S):

PREPARED BY: Cheikh Ndong, BluMetric Environnement  
 VERIFIED BY: Mathieu Gosselin

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# BOREHOLE REPORT: BH-23-79

CLIENT:	TROIILUS GOLD CORPORATION	DATE - BEG. / END:	2023-07-24
PROJECT:	Troilus Feasibility Study	COORDINATES:	N: 5,647,688.8 m E: 534,774.8 m UTM NAD83 Zone 18
PROJECT NO.:	2257554002	GROUND / TUBE ELEV.:	395.83 m / 395.83 m
LOCATION:	Troilus Mine, North of Chibougamau, Québec	INC. / AZIMUTH:	90.0° / 0.0°
CONTRACTOR:	Forage Pelletier	EQUIPMENT:	CME55

DEPTH (m)	DRILLING METHOD	STRATIGRAPHY		SAMPLES						GRAPH		LABORATORY AND IN SITU TESTS	INSTALLATION	
		ELEVATION (m) / DEPTH	DESCRIPTION	SYMBOL	TYPE - NUMBER	SUB - SAMPLE	DEPTH	STATE & CALIBER	RECOVERY (%)	BLOWS / 15 cm	N, Nc OR ROD			N
12.10			(SM) SILTY SAND; trace gravel; grey; presence of cobbles and boulders; Till; wet, very dense	[Symbol]										
13														
13.36 - 13.49				SS										x
14														
14.89 - 15.00				SS-14										
15														
16		379.73												
16.10		16.10	BEDROCK: fresh; grey; fair quality, fine grained, INTERMEDIATE VOLCANIC ROCK.	[Symbol]	RC-15		NQ	91			62			
17		379.04 - 16.79	End of borehole.											
18														
19														
20														
21														
22														
23														
24														

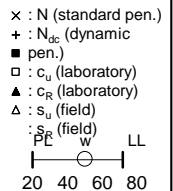
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# BOREHOLE REPORT: BH-23-80

CLIENT: TROIILUS GOLD CORPORATION	DATE - BEG. / END: 2023-07-24
PROJECT: Troilus Feasibility Study	COORDINATES: N: 5,647,945.8 m E: 535,179.6 m UTM NAD83 Zone 18
PROJECT NO.: 2257554002	GROUND / TUBE ELEV.: 388.58 m / 388.58 m
LOCATION: Troilus Mine, North of Chibougamau, Québec	INC. / AZIMUTH: 90.0° / 0.0°
CONTRACTOR: Forage Pelletier	EQUIPMENT: CME55

DEPTH (m)	DRILLING METHOD	STRATIGRAPHY		SAMPLES					GRAPH		LABORATORY AND IN SITU TESTS	INSTALLATION		
		ELEVATION (m) / DEPTH	DESCRIPTION	SYMBOL	TYPE - NUMBER	SUB - SAMPLE	DEPTH	STATE & CALIBER	RECOVERY (%)	BLOWS / 15 cm			N, Nc OR ROD	
388.58		0.00	Ground level											
		0.00	(PT) Fibrous peat; dark brown; moist, very soft.	[Symbol]	SS--		N	8	1-0-0-2	HW				
		0.61	(SM) SILTY SAND; some gravel; grey; Till; wet, compact.	[Symbol]	SS-1		B	48	6-6-13-50	19				
		1.22		[Symbol]	SS-2		NQ	0	50 / 5"	R				
		1.35	BEDROCK: fresh; grey; excellent quality, fine grained INTERMEDIATE VOLCANIC ROCK.	[Symbol]	RC-3		NQ	100		100				
		2.68	End of borehole.											



GSA  
HYD  
w = 8%

REMARK(S):

PREPARED BY: Cheikh Ndong, BluMetric Environnement  
 VERIFIED BY: Mathieu Gosselin

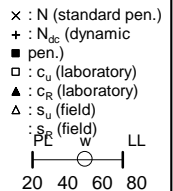
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# BOREHOLE REPORT: BH-23-88

CLIENT: TROIILUS GOLD CORPORATION	DATE - BEG. / END: 2023-07-30
PROJECT: Troilus Feasibility Study	COORDINATES: N: 5,652,460.6 m E: 540,052.5 m UTM NAD83 Zone 18
PROJECT NO.: 2257554002	GROUND / TUBE ELEV.: 354.30 m / 354.30 m
LOCATION: Troilus Mine, North of Chibougamau, Québec	INC. / AZIMUTH: 90.0° / 0.0°
CONTRACTOR: Forage Pelletier	EQUIPMENT: CME55

DEPTH (m)	DRILLING METHOD	STRATIGRAPHY		SAMPLES					GRAPH		LABORATORY AND IN SITU TESTS	INSTALLATION	
		ELEVATION (m) / DEPTH	DESCRIPTION	SYMBOL	TYPE - NUMBER	SUB - SAMPLE	DEPTH	STATE & CALIBER	RECOVERY (%)	BLOWS / 15 cm			N, Nc OR ROD
354.30			Ground level										
0.00		354.22	(PT) Fibrous PEAT; dark brown; moist, very loose.										
0.08			(SP) SAND; coarse; brown; moist, very loose.	SS-1		N	43	0-1-0-1	1	X			
353.69			(SM) SILTY SAND; trace of gravel and clay; grey, wet, loose.	SS-2		B	66	3-2-2-6	4	X			
0.61				SS-3		B	59	1-2-4-7	6	X	O		
1.22													
1.83		352.47	Becoming compact.	SS--		B	0	5-6-6-7	12	X			
2.44		351.86	Becoming loose	SS-4		B	52	2-1-4-4	5	X			
3.05				SS-5		B	54	3-2-3-4	5	X			
3.66		350.64	Becoming very dense; with probable presence of cobbles.	SS-6		B	41	4-30-50 / 4"	R				
4.07		350.23	Becoming with presence of boulders.										
4.88		349.42	BEDROCK: fresh; excellent quality, coarse grained, massive, GRANITE.	RC-7		NQ	98						
6.26		348.04	End of borehole.										



GSA  
HYD  
w = 20%

REMARK(S):

PREPARED BY: Cheikh Ndong, BluMetric Environnement  
 VERIFIED BY: Mathieu Gosselin

PAGE: 1 of 1  
DATE: 2024-04-12

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# BOREHOLE REPORT: MW-23-24

CLIENT: TROIILUS GOLD CORPORATION DATE - BEG. / END: 2023-07-29  
 PROJECT: Troilus Feasibility Study COORDINATES: N: 5,647,456.2 m E: 533,257.1 m UTM NAD83 Zone 18  
 PROJECT NO.: 2257554002 GROUND / TUBE ELEV.: 380.25 m / 381.07 m  
 LOCATION: Troilus Mine, North of Chibougamau, Québec INC. / AZIMUTH: 90.0° / 0.0°  
 CONTRACTOR: Forage Pelletier EQUIPMENT: CME55

DEPTH (m)	DRILLING METHOD	STRATIGRAPHY			SAMPLES				GRAPH		LABORATORY AND IN SITU TESTS	INSTALLATION	
		ELEVATION (m) / DEPTH	DESCRIPTION	SYMBOL	TYPE - NUMBER	SUB - SAMPLE	DEPTH	STATE & CALIBER	RECOVERY (%)	BLOWS / 15 cm			N, Nc OR ROD
0		381.25											
0		380.25	Ground level										
0		0.00	(PT) Fibrous PEAT; grass and woods.		SS--		N	0	1-0-0-2	HWK			
1		379.64											
1		0.61	(SP) SAND; some silt; trace of clay; brown; wet, compact.		SS-1		B	67	6-8-13-8	21	X		
1		379.03											
1		1.22	Becoming brown-grey.		SS-2		B	75	4-9-11-10	20	X		
2		378.42											
2		1.83	Becoming grey and loose.		SS-3		B	64	4-4-5-8	9	X		
3		377.81											
3		2.44	Becoming compact with probable presence of cobbles.		SS-4		B	66	7-6-6-2	12	X		
3		377.20											
3		3.05	(SM) Gravelly SILTY SAND; grey; probable presence of cobbles; Till; wet, compact.		SS-5		B	66	16-15-14-7	29	O		GSA HYD w = 8%
4													
4					SS-6		B		4-6-5-8	11	X		
5					SS---		B	0	8-11-11-18	22	X		
5					SS-7		B	23	19-14-7-18	21	X		
6					SS-8		B	21	13-7-10-7	17	X		
6					SS-9		B	41	13-7-4-4	11	X		
7		373.52			SS---								
7		6.73	BEDROCK: Slightly weathered; grey; fractured, fair quality, fine grained, INTERMEDIATE VOLCANIC ROCK.							50 / 1"	R		
8					RC-10		NQ	94			70		
9					RC-11		NQ	100			69		
10		370.48			RC-12		NQ	100			94		
10		9.77	Becoming excellent quality.										
		369.81											
		10.44	End of borehole.										

REMARK(S):

PREPARED BY: Cheikh Ndong, BluMetric Environnement  
 VERIFIED BY: Mathieu Gosselin

WSP\_EN\_Log-Geo.sty



# BOREHOLE REPORT: MW-23-25

CLIENT: TROIILUS GOLD CORPORATION      DATE - BEG. / END: 2023-04-01  
 PROJECT: Troilus Feasibility Study      COORDINATES: N: 5,653,238.5 m E: 539,044.3 m UTM NAD83 Zone 18  
 PROJECT NO.: 2257554002      GROUND / TUBE ELEV.: 353.15 m / 354.37 m  
 LOCATION: Troilus Mine, North of Chibougamau, Québec      INC. / AZIMUTH: 90.0° / 0.0°  
 CONTRACTOR: Forage Pelletier      EQUIPMENT: CME55

DEPTH (m)	DRILLING METHOD	STRATIGRAPHY		SAMPLES					GRAPH	LABORATORY AND IN SITU TESTS	INSTALLATION					
		ELEVATION (m) / DEPTH	DESCRIPTION	SYMBOL	TYPE - NUMBER	SUB - SAMPLE	DEPTH	STATE & CALIBER	RECOVERY (%)			BLOWS / 15 cm	N, Nc OR ROD			
355.15																
-1																
0		353.15	Ground level													
		0.00	SNOW													
		352.85	(PT) Fibrous PEAT; dark brown; wet, very loose.	SS-1	A	0.00	B	0	/PM							
		0.30			B	0.31										
						0.61										
						0.76										
1				SS-2			B	0	1-0-0-0 /1/24'	HW						
						1.37										
		351.48	(SM) SILTY SAND; poorly graded; light brownish grey; presence of organic matters; wet, compact.	SS-3	A	1.52	B	41	0-3-5-6	8	X					
		1.67			B	1.67										
						2.13										
		350.71	Becoming grey; without organic matters.	SS-4	A	2.29	B	54	3-4-4-4	8	X					
		2.44			B	2.44										
						2.90										
						3.05										
				SS-5			B	56	5-4-6-3	10	X					
						3.66										
		349.34	Becoming loose.	SS-6		3.81	B	62	7-4-2-2	6	X					
		3.81				4.42										
						4.57										
		348.27	Becoming compact.	SS-7	A	4.88	B	57	4-5-7-8	12	X					
		4.88			B	5.18										
		347.82				5.33										
		5.33	(SM) SILT; no-plasticity; poorly graded; some sand; grey; wet, compact.	SS-8			B	70	7-10-16-20	26	X					
						5.94										
		347.05	Becoming dense.	SS-9		6.10	B	64	4-20-17-16	37	X					
		6.10				6.71										
						6.86										
		346.29	Becoming compact to loose.	SS-10		6.86	B	66	9-11-10-7	21	X					
		6.86				7.47										
						7.63										
				SS-11			B	62	2-3-5-4	8	X					
						8.24										
		344.76	(ML) Sandy SILT; fine, poorly graded; grey; wet, very loose.	SS-12		8.39	B	62	5-2-2-2	4	X					
		8.39				9.00										
						9.14										
				SS-13			B	62	4-2-3-3	5	X					
						9.75										

REMARK(S): Ground level surveyed : 352.853 m.

PREPARED BY: Zachary Morin  
 VERIFIED BY: Mathieu Gosselin

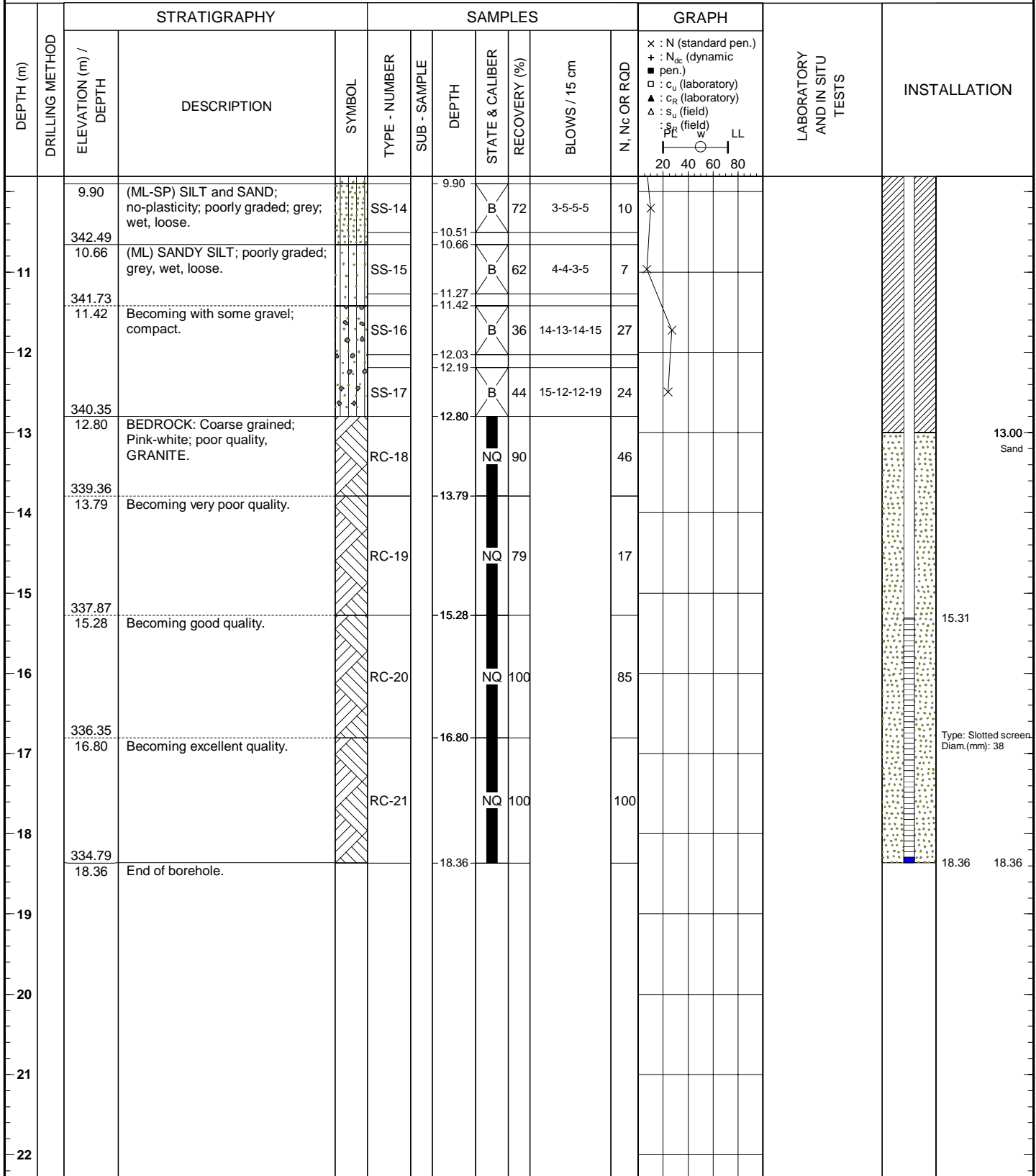
PAGE: 1 of 2  
 DATE: 2024-04-19

WSP\_EN\_Log-Geo.sty



# BOREHOLE REPORT: MW-23-25

CLIENT: TROIILUS GOLD CORPORATION DATE - BEG. / END: 2023-04-01  
 PROJECT: Troilus Feasibility Study COORDINATES: N: 5,653,238.5 m E: 539,044.3 m UTM NAD83 Zone 18  
 PROJECT NO.: 2257554002 GROUND / TUBE ELEV.: 353.15 m / 354.37 m  
 LOCATION: Troilus Mine, North of Chibougamau, Québec INC. / AZIMUTH: 90.0° / 0.0°  
 CONTRACTOR: Forage Pelletier EQUIPMENT: CME55

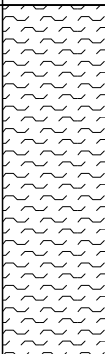



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# MANUAL AUGER REPORT: TM-23-14

CLIENT: TROILUS GOLD CORPORATION      DATE - BEG. / END: 2023-09-28  
 PROJECT: Troilus Feasibility Study      COORDINATES: N: 5,647,916.0 m E: 533,258.0 m UTM NAD83 Zone 18  
 PROJECT NO.: 2257554002      GROUND ELEV.: 379.13 m  
 LOCATION: Troilus Mine, North of Chibougamau, Québec      LENGTH / WIDTH:  
 CONTRACTOR: BluMetric Environmental Inc.      EQUIPMENT: Manual auger

DEPTH (m)	STRATIGRAPHY			SAMPLES			ANALYSES
	ELEVATION (m) / DEPTH	DESCRIPTION	SYMBOL	TYPE - NUMBER	DEPTH	STATE	
379.13 0.00	Ground level (PT) Fibrous PEAT.						
377.73 1.40	(SM) SILTY SAND; grey; wet.						
376.53 2.60	End of manual auger.						
1							
2							
3							
4							
5							

REMARK(S): Refusal on very dense ground.

PREPARED BY: Cheikh Ndong, BluMetric  
 VERIFIED BY: Mathieu Gosselin

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# MANUAL AUGER REPORT: TM-23-27

CLIENT: TROIILUS GOLD CORPORATION      DATE - BEG. / END: 2023-09-28  
 PROJECT: Troilus Feasibility Study      COORDINATES: N: 5,648,900.0 m E: 534,100.0 m UTM NAD83 Zone 18  
 PROJECT NO.: 2257554002      GROUND ELEV.: 377.16 m  
 LOCATION: Troilus Mine, North of Chibougamau, Québec      LENGTH / WIDTH:  
 CONTRACTOR: BluMetric Environmental Inc.      EQUIPMENT: Manual auger

DEPTH (m)	STRATIGRAPHY			SAMPLES			ANALYSES
	ELEVATION (m) / DEPTH	DESCRIPTION	SYMBOL	TYPE - NUMBER	DEPTH	STATE	
	377.16 0.00	Ground level (PT) Fibrous PEAT.		AS-01	0.55		HYD w = 498%
1	376.41 0.75	Becoming wet.					
	375.56 1.60	End of manual auger.			1.60		
2							
3							
4							
5							

REMARK(S): Refusal on boulders

PREPARED BY: Cheikh Ndong, BluMetric Environmental Inc.  
 VERIFIED BY: Mathieu Gosselin

PAGE: 1 of 1  
 DATE: 2024-04-15

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# MANUAL AUGER REPORT: TM-23-28

CLIENT: TROIILUS GOLD CORPORATION      DATE - BEG. / END: 2023-09-28  
 PROJECT: Troilus Feasibility Study      COORDINATES: N: 5,648,929.0 m E: 534,842.0 m UTM NAD83 Zone 18  
 PROJECT NO.: 2257554002      GROUND ELEV.: 375.43 m  
 LOCATION: Troilus Mine, North of Chibougamau, Québec      LENGTH / WIDTH:  
 CONTRACTOR: BluMetric Environmental Inc.      EQUIPMENT: Manual auger

DEPTH (m)	STRATIGRAPHY			SAMPLES			ANALYSES
	ELEVATION (m) / DEPTH	DESCRIPTION	SYMBOL	TYPE - NUMBER	DEPTH	STATE	
375.43	0.00	Ground level					
		(PT) Fibrous PEAT.					
375.23	0.20	(SM) SILTY SAND; trace of clay; dark-brown; moist.		AS-01	0.20		GSA HYD w = 39%
375.13	0.30	Becoming wet.					
374.78	0.65	(ML-SW) SILT and SAND; presence of boulders; Till; beige; wet.		AS-02	0.65		GSA HYD w = 24%
373.38	2.05	End of manual auger.					

REMARK(S): Refusal on rock/ boulders

PREPARED BY: Cheikh Ndong, BluMetric Environmental Inc.  
 VERIFIED BY: Mathieu Gosselin

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# MANUAL AUGER REPORT: TM-23-29

CLIENT: TROIILUS GOLD CORPORATION      DATE - BEG. / END: 2023-09-28  
 PROJECT: Troilus Feasibility Study      COORDINATES: N: 5,649,308.0 m E: 534,402.0 m UTM NAD83 Zone 18  
 PROJECT NO.: 2257554002      GROUND ELEV.: 375.43 m  
 LOCATION: Troilus Mine, North of Chibougamau, Québec      LENGTH / WIDTH:  
 CONTRACTOR: BluMetric Environmental Inc.      EQUIPMENT: Manual auger

DEPTH (m)	STRATIGRAPHY			SAMPLES			ANALYSES
	ELEVATION (m) / DEPTH	DESCRIPTION	SYMBOL	TYPE - NUMBER	DEPTH	STATE	
375.43	0.00	Ground level					
375.28	0.15	(PT) Fibrous PEAT; black; moist to wet.					
374.88	0.15	(ML-SW) SILT and SAND; some gravel; presence of boulders; dark-brown; wet.		AS-01	0.15		GSA HYD w = 48%
	0.55	End of manual auger.			0.55		
1							
2							
3							

REMARK(S): Refusal on rock/ boulders.

PREPARED BY: Cheikh Ndong, BluMetric Environmental Inc.  
 VERIFIED BY: Mathieu Gosselin

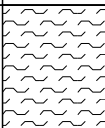
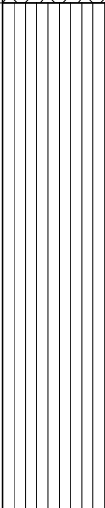
PAGE: 1 of 1  
 DATE: 2024-04-15

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# MANUAL AUGER REPORT: TM-23-31

CLIENT: TROILUS GOLD CORPORATION      DATE - BEG. / END: 2023-09-28  
 PROJECT: Troilus Feasibility Study      COORDINATES: N: 5,649,696.0 m E: 535,269.0 m UTM NAD83 Zone 18  
 PROJECT NO.: 2257554002      GROUND ELEV.: 371.33 m  
 LOCATION: Troilus Mine, North of Chibougamau, Québec      LENGTH / WIDTH:  
 CONTRACTOR: BluMetric Environmental Inc.      EQUIPMENT: Manual auger

DEPTH (m)	STRATIGRAPHY			SAMPLES			ANALYSES
	ELEVATION (m) / DEPTH	DESCRIPTION	SYMBOL	TYPE - NUMBER	DEPTH	STATE	
	371.33	Ground level					
	0.00	(PT) Fibrous PEAT.					
	370.98	(OL) ORGANIC SILT; dark-brown; presence of plant debris, wet.					
1							
	369.63	End of manual auger.					
2	1.70						
3							

REMARK(S): Refusal, saturation and loose soil

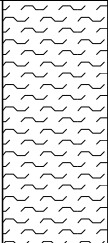

PREPARED BY: Cheikh Ndong, BluMetric, Environmental Inc.  
 VERIFIED BY: Mathieu Gosselin

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# MANUAL AUGER REPORT: TM-23-32

CLIENT: TROIILUS GOLD CORPORATION      DATE - BEG. / END: 2023-09-29  
 PROJECT: Troilus Feasibility Study      COORDINATES: N: 5,649,948.0 m E: 534,812.0 m UTM NAD83 Zone 18  
 PROJECT NO.: 2257554002      GROUND ELEV.: 375.62 m  
 LOCATION: Troilus Mine, North of Chibougamau, Québec      LENGTH / WIDTH:  
 CONTRACTOR: BluMetric Environmental Inc.      EQUIPMENT: Manual auger

DEPTH (m)	STRATIGRAPHY			SAMPLES			ANALYSES
	ELEVATION (m) / DEPTH	DESCRIPTION	SYMBOL	TYPE - NUMBER	DEPTH	STATE	
	375.62 0.00	Ground level (PT) Fibrous PEAT.					
1	374.97 0.65	(ML-SW) SILT and SAND; some gravel; dark-brown; wet.		AS-01	0.65		GSA HYD w = 0%
2	373.77 1.85	End of manual auger.			1.85		
3							

REMARK(S): Refusal on roots (the auger did not advance).

PREPARED BY: Cheikh Ndong, BluMetric Environmental Inc.  
 VERIFIED BY: Mathieu Gosselin

PAGE: 1 of 1  
 DATE: 2024-04-15



# MANUAL AUGER REPORT: TM-23-33

CLIENT: TROIILUS GOLD CORPORATION	DATE - BEG. / END: 2023-09-28
PROJECT: Troilus Feasibility Study	COORDINATES: N: 5,650,283.0 m E: 535,819.0 m UTM NAD83 Zone 18
PROJECT NO.: 2257554002	GROUND ELEV.: 380.24 m
LOCATION: Troilus Mine, North of Chibougamau, Québec	LENGTH / WIDTH:
CONTRACTOR: BluMetric Environmental Inc.	EQUIPMENT: Manual auger

DEPTH (m)	STRATIGRAPHY			SAMPLES			ANALYSES
	ELEVATION (m) / DEPTH	DESCRIPTION	SYMBOL	TYPE - NUMBER	DEPTH	STATE	
	380.24	Ground level					
	0.00	(PT) Fibrous PEAT; black; moist					
	380.20	(SM) SILTY SAND; traces of gravel and clay; grey; moist.		AS-01	0.04		GSA HYD w = 24%
	0.04	Becoming brown.					
	380.12			AS-02	0.12		GSA HYD w = 13%
	0.12						
	380.01	(SP-ML) SAND and SILT; trace of clay; beige; moist.		AS-03	0.23		GSA HYD w = 23%
	0.23						
1	379.34						
	0.90	(SM) SILTY SAND; some gravel; trace of clay; beige; moist. Presence of cobbles and boulders .		AS-04	0.90		GSA HYD w = 12%
	378.74	Becoming wet.					
	1.50						
2	378.09						
	2.15	End of manual auger.			2.15		

REMARK(S): Refusal on boulders.

PREPARED BY: Cheikh Ndong, BluMetric Environmental Inc.  
 VERIFIED BY: Mathieu Gosselin

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# MANUAL AUGER REPORT: TM-23-34

CLIENT: TROIILUS GOLD CORPORATION      DATE - BEG. / END: 2023-09-28  
 PROJECT: Troilus Feasibility Study      COORDINATES: N: 5,650,530.0 m E: 535,416.0 m UTM NAD83 Zone 18  
 PROJECT NO.: 2257554002      GROUND ELEV.: 377.63 m  
 LOCATION: Troilus Mine, North of Chibougamau, Québec      LENGTH / WIDTH:  
 CONTRACTOR: BluMetric Environmental Inc.      EQUIPMENT: Manual auger

DEPTH (m)	STRATIGRAPHY			SAMPLES			ANALYSES
	ELEVATION (m) / DEPTH	DESCRIPTION	SYMBOL	TYPE - NUMBER	DEPTH	STATE	
377.63	0.00	Ground level					
	0.00	(SM) SILTY SAND; trace of clay; dark-brown; moist.		AS-01	0.00		GSA HYD w = 35%
	377.23	(SP-ML) SAND and SILT; beige; moist.		AS-02	0.40		GSA HYD w = 26%
1	376.23	Becoming wet.					
	1.40						
	376.13	(SM) Gravelly SILTY SAND; trace of clay; beige; wet. Presence of cobbles and boulders.		AS-03	1.50		GSA HYD w = 13%
2	1.50						
	374.93	End of manual auger.					
	2.70						
3							

REMARK(S): Refusal on boulders.

PREPARED BY: Cheikh Ndong, BluMetric Environmental Inc.  
 VERIFIED BY: Mathieu Gosselin



# MANUAL AUGER REPORT: TM-23-35

CLIENT:	TROIILUS GOLD CORPORATION	DATE - BEG. / END:	2023-09-28
PROJECT:	Troilus Feasibility Study	COORDINATES:	N: 5,650,515.0 m E: 536,493.0 m UTM NAD83 Zone 18
PROJECT NO.:	2257554002	GROUND ELEV.:	377.55 m
LOCATION:	Troilus Mine, North of Chibougamau, Québec	LENGTH / WIDTH:	
CONTRACTOR:	BluMetric Environmental Inc.	EQUIPMENT:	Manual auger

DEPTH (m)	STRATIGRAPHY			SAMPLES			ANALYSES
	ELEVATION (m) / DEPTH	DESCRIPTION	SYMBOL	TYPE - NUMBER	DEPTH	STATE	
	377.55	Ground level					
	0.00	(SM) SILTY SAND; trace of gravel and clay; grey; moist.		AS-01	0.00		GSA HYD w = 24% GSA HYD w = 34% GSA HYD w = 29%
	377.45	(ML-SW) SILT and SAND; medium; some gravel; trace of clay; brown; moist.		AS-02	0.10		
	377.20	(ML-SW) Sandy SILT; beige; moist.		AS-03	0.35		
	376.75	(SM) SILTY SAND; beige; moist. Presence of cobbles and boulders.			0.80		
1							
	375.65	Becoming wet.					
2	1.90						
	374.55	End of manual auger.					
3	3.00						

REMARK(S): Maximum auger deep.

PREPARED BY: Cheikh Ndong, BluMetric Environmental Inc.  
 VERIFIED BY: Mathieu Gosselin

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# MANUAL AUGER REPORT: TM-23-37

CLIENT: TROIILUS GOLD CORPORATION      DATE - BEG. / END: 2023-09-29  
 PROJECT: Troilus Feasibility Study      COORDINATES: N: 5,650,657.0 m E: 536,182.0 m UTM NAD83 Zone 18  
 PROJECT NO.: 2257554002      GROUND ELEV.: 370.92 m  
 LOCATION: Troilus Mine, North of Chibougamau, Québec      LENGTH / WIDTH:  
 CONTRACTOR: BluMetric Environmental Inc.      EQUIPMENT: Manual auger

DEPTH (m)	STRATIGRAPHY			SAMPLES			ANALYSES
	ELEVATION (m) / DEPTH	DESCRIPTION	SYMBOL	TYPE - NUMBER	DEPTH	STATE	
	370.92	Ground level					
	0.00	(PT) Fibrous PEAT.					
	370.72				0.20		
	0.20	(SM) SILTY SAND; trace of clay; presence of organic matter; dark-brown; moist.		AS-01			GSA HYD w = 479%
1	369.82				1.10		
	1.10	(ML-SW) SILT and SAND; trace of clay; presence of organic matter; brown; moist. Presence of cobbles and boulders.					GSA HYD w = 12%
	369.52						
	1.40	Becoming wet.					
2							
	368.22				2.70		
	2.70	End of manual auger.					
3							

REMARK(S): Refusal on boulders

PREPARED BY: Cheikh Ndong, BluMetric Environmental Inc.  
 VERIFIED BY: Mathieu Gosselin

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# MANUAL AUGER REPORT: TM-23-49

CLIENT: TROIILUS GOLD CORPORATION      DATE - BEG. / END: 2023-09-27  
 PROJECT: Troilus Feasibility Study      COORDINATES: N: 5,652,856.0 m E: 539,382.0 m UTM NAD83 Zone 18  
 PROJECT NO.: 2257554002      GROUND ELEV.: 365.45 m  
 LOCATION: Troilus Mine, North of Chibougamau, Québec      LENGTH / WIDTH:  
 CONTRACTOR: BluMetric Environmental Inc.      EQUIPMENT: Manual auger

DEPTH (m)	STRATIGRAPHY			SAMPLES			ANALYSES
	ELEVATION (m) / DEPTH	DESCRIPTION	SYMBOL	TYPE - NUMBER	DEPTH	STATE	
365.45	0.00	Ground level					
365.30	0.15	(PT) Fibrous PEAT; black; moist .					
364.50	0.95	(SW) SAND; medium; some gravel; some silt; Till; brown; wet. Presence of cobbles and boulders					
1	0.95	End of manual auger.					
2							
3							

REMARK(S):

PREPARED BY: Cheikh Ndong, BluMetric Environmental Inc.  
 VERIFIED BY: Mathieu Gosselin

PAGE: 1 of 1  
 DATE: 2024-04-15

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# MANUAL AUGER REPORT: TM-23-54

CLIENT: TROIILUS GOLD CORPORATION      DATE - BEG. / END: 2023-09-27  
 PROJECT: Troilus Feasibility Study      COORDINATES: N: 5,651,769.0 m E: 539,389.0 m UTM NAD83 Zone 18  
 PROJECT NO.: 2257554002      GROUND ELEV.: 361.93 m  
 LOCATION: Troilus Mine, North of Chibougamau, Québec      LENGTH / WIDTH:  
 CONTRACTOR: BluMetric Environmental Inc.      EQUIPMENT: Manual auger

DEPTH (m)	STRATIGRAPHY			SAMPLES			ANALYSES
	ELEVATION (m) / DEPTH	DESCRIPTION	SYMBOL	TYPE - NUMBER	DEPTH	STATE	
	361.93	Ground level					
	0.00	(SP) SAND; fine; some silt; trace of clay; brown, moist. Presence of plant debris.		AS-01	0.00		GSA HYD w = 7%
	361.78	Becoming without plant debris.		AS-02	0.15		
	0.15						
	361.33	Becoming with trace of silt and clay; beige.			0.60		GSA HYD w = 3%
	0.60						
					AS-03		
1							
2							
3	358.93	End of manual auger.			3.00		
	3.00						

REMARK(S): Maximum auger deep.

PREPARED BY: Cheikh Ndong, BluMetric Environmental Inc.  
 VERIFIED BY: Mathieu Gosselin



# MANUAL AUGER REPORT: TM-23-55

CLIENT: TROIILUS GOLD CORPORATION      DATE - BEG. / END: 2023-09-29  
 PROJECT: Troilus Feasibility Study      COORDINATES: N: 5,651,422.0 m E: 539,833.0 m UTM NAD83 Zone 18  
 PROJECT NO.: 2257554002      GROUND ELEV.: 376.48 m  
 LOCATION: Troilus Mine, North of Chibougamau, Québec      LENGTH / WIDTH:  
 CONTRACTOR: BluMetric Environmental Inc.      EQUIPMENT: Manual auger

DEPTH (m)	STRATIGRAPHY			SAMPLES			ANALYSES
	ELEVATION (m) / DEPTH	DESCRIPTION	SYMBOL	TYPE - NUMBER	DEPTH	STATE	
376.48		Ground level					
0.00	376.44	(ML-SW) SILT and SAND; trace of clay and gravel; grey; dry. Presence of organic debris.		GB-01	0.00		GSA HYD w = 10% GSA HYD w = 34%
0.04		(ML) Sandy SILT; trace of clay and gravel; brown; moist.		GB-02	0.04		
376.03	0.45	(SM) SILTY SAND; trace of clay; beige; moist. Presence of cobbles.		GB-03	0.45		GSA HYD w = 10%
375.63	0.85	End of manual auger.				0.85	


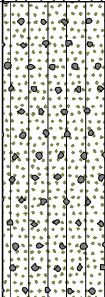


REMARK(S): Refusal on rock.

PREPARED BY: Cheikh Ndong, BluMetric Environmental Inc.  
 VERIFIED BY: Mathieu Gosselin



# MANUAL AUGER REPORT: TM-23-57

CLIENT: TROIILUS GOLD CORPORATION      DATE - BEG. / END: 2023-09-27  
 PROJECT: Troilus Feasibility Study      COORDINATES: N: 5,651,196.0 m E: 538,949.0 m UTM NAD83 Zone 18  
 PROJECT NO.: 2257554002      GROUND ELEV.: 379.95 m  
 LOCATION: Troilus Mine, North of Chibougamau, Québec      LENGTH / WIDTH:  
 CONTRACTOR: BluMetric Environmental Inc.      EQUIPMENT: Manual auger

DEPTH (m)	STRATIGRAPHY			SAMPLES			ANALYSES
	ELEVATION (m) / DEPTH	DESCRIPTION	SYMBOL	TYPE - NUMBER	DEPTH	STATE	
379.95	0.00	Ground level					
	0.10	(PT) Fibrous PEAT; black; moist .					
	0.10	(SW) SAND; some silt; trace of gravel; brown, moist.		AS-01	0.10		GSA w = 21%
	0.50	Becoming wet.					
	0.70	(SM) SILTY SAND; beige; wet.		AS-02	0.70		GSA w = 33%
	1.60	End of manual auger.			1.60		

REMARK(S): Refusal on rock/ boulders.

PREPARED BY: Cheikh Ndong, BluMetric Environmental Inc.  
 VERIFIED BY: Mathieu Gosselin



# MANUAL AUGER REPORT: TM-23-58

CLIENT: TROIILUS GOLD CORPORATION      DATE - BEG. / END: 2023-09-27  
 PROJECT: Troilus Feasibility Study      COORDINATES: N: 5,651,040.0 m E: 539,200.0 m UTM NAD83 Zone 18  
 PROJECT NO.: 2257554002      GROUND ELEV.: 372.62 m  
 LOCATION: Troilus Mine, North of Chibougamau, Québec      LENGTH / WIDTH:  
 CONTRACTOR: BluMetric Environmental Inc.      EQUIPMENT: Manual auger

DEPTH (m)	STRATIGRAPHY			SAMPLES			ANALYSES
	ELEVATION (m) / DEPTH	DESCRIPTION	SYMBOL	TYPE - NUMBER	DEPTH	STATE	
	372.62	Ground level					
	0.00	(PT) Fibrous PEAT; black, moist.					
	372.12	Becoming wet.					
	0.50						
	372.01						
	0.60	(ML-SW) SILT and SAND; beige; wet.		AS-01	0.60		GSA HYD w = 92%
1	371.72						
	0.90	(SM) SILTY SAND; beige; wet. Presence of boulders.		AS-02	0.90		GSA w = 20%
2							
3	369.62						
	3.00	End of manual auger.			3.00		

REMARK(S): Maximum auger deep.

PREPARED BY: Cheikh Ndong, BluMetric Environmental Inc.  
 VERIFIED BY: Mathieu Gosselin



# MANUAL AUGER REPORT: TM-23-86

CLIENT: TROIILUS GOLD CORPORATION      DATE - BEG. / END: 2023-09-28  
 PROJECT: Troilus Feasibility Study      COORDINATES: N: 5,653,748.0 m E: 538,751.0 m UTM NAD83 Zone 18  
 PROJECT NO.: 2257554002      GROUND ELEV.: 353.10 m  
 LOCATION: Troilus Mine, North of Chibougamau, Québec      LENGTH / WIDTH:  
 CONTRACTOR: BluMetric Environmental Inc.      EQUIPMENT: Manual auger

DEPTH (m)	STRATIGRAPHY			SAMPLES			ANALYSES
	ELEVATION (m) / DEPTH	DESCRIPTION	SYMBOL	TYPE - NUMBER	DEPTH	STATE	
353.10	0.00	Ground level					
353.00	0.10	(PT) Fibrous PEAT; black; moist.			0.10		GSA HYD w = 196%
	0.30	(SM) Sandy SILT; dark-brown; moist.		AS-01			
352.80	0.30	Becoming wet.					
352.35	0.75	Becoming brown.		AS-02	0.75		GSA HYD w = 36%
	1.15	Becoming beige; presence of cobbles and boulders.			1.15		
350.90	2.20	End of manual auger.					

REMARK(S): Refusal on boulders.

PREPARED BY: Cheikh Ndong, BluMetric Environmental Inc.  
 VERIFIED BY: Mathieu Gosselin

WSP\_EN\_Tranchée-Geo.sty



# MANUAL AUGER REPORT: TM-23-87

CLIENT:	TROIILUS GOLD CORPORATION	DATE - BEG. / END:	2023-09-28
PROJECT:	Troilus Feasibility Study	COORDINATES:	N: 5,653,563.0 m E: 538,691.0 m UTM NAD83 Zone 18
PROJECT NO.:	2257554002	GROUND ELEV.:	354.76 m
LOCATION:	Troilus Mine, North of Chibougamau, Québec	LENGTH / WIDTH:	
CONTRACTOR:	BluMetric Environmental Inc.	EQUIPMENT:	Manual auger

DEPTH (m)	STRATIGRAPHY			SAMPLES			ANALYSES
	ELEVATION (m) / DEPTH	DESCRIPTION	SYMBOL	TYPE - NUMBER	DEPTH	STATE	
354.76	Ground level						
0.00	(PT) Fibrous PEAT; black; moist.						
354.66							
0.10	(ML-SW) SILT and SAND; some gravel; dark-brown; moist.		AS-01	0.10			GSA HYD w = 42%
354.63	(SW) SAND; medium; trace of gravel; brown; moist.			0.13			
0.13	Becoming wet.						
354.56							
0.20	(SM) SILTY SAND; beige; wet.						
354.51							
0.25							
352.96	End of manual auger.						
1.80							

REMARK(S): Refusal on boulders

PREPARED BY: Cheikh Ndong, BluMetric Environmental Inc.  
 VERIFIED BY: Mathieu Gosselin

WSP\_EN\_Tranchée-Geo.sty



# TEST-PIT REPORT: TP-23-90

CLIENT: TROIILUS GOLD CORPORATION      DATE - BEG. / END: 2023-09-07  
 PROJECT: Troilus Feasibility Study      COORDINATES: N: 5,648,121.0 m E: 534,678.6 m UTM NAD83 Zone 18  
 PROJECT NO.: 2257554002      GROUND ELEV.: 375.74 m  
 LOCATION: Troilus Mine, North of Chibougamau, Québec      LENGTH / WIDTH: 3.0 m / 3.0 m  
 CONTRACTOR: Forage Chibougamau      EQUIPMENT: CAT 318CL

DEPTH (m)	STRATIGRAPHY			SAMPLES			ANALYSES
	ELEVATION (m) / DEPTH	DESCRIPTION	SYMBOL	TYPE - NUMBER	DEPTH	STATE	
	375.74	Ground level					
	0.00	(PT) Fibrous PEAT; dark brown; moist, very loose.					
	375.64	(SM) SILTY SAND; brown, oxidized; moist, loose.					
	0.10			GB-01	0.20		
	375.34	(ML) Sandy SILT; grey; moist, loose.			0.40		Gs = 2.67 Proctor GSA HYD w = 18%
	0.40			GB-02			
1							
	373.74	(SP-ML) SAND and SILT; grey; moist, loose.			2.00		GSA HYD w = 18%
	2.00			GB-03			
2					2.31		
3							
4							
	371.24	End of trench.					
	4.50						

REMARK(S): End of Test pit due to Equipment reach. No water at bottom.

PREPARED BY: Mathieu Gosselin  
 VERIFIED BY: Mathieu Gosselin

WSP\_EN\_Tranchée-Geo.sty



# TEST-PIT REPORT: TP-23-91

CLIENT: TROIILUS GOLD CORPORATION      DATE - BEG. / END: 2023-09-06  
 PROJECT: Troilus Feasibility Study      COORDINATES: N: 5,647,479.4 m E: 534,125.9 m UTM NAD83 Zone 18  
 PROJECT NO.: 2257554002      GROUND ELEV.: 385.84 m  
 LOCATION: Troilus Mine, North of Chibougamau, Québec      LENGTH / WIDTH: 4.0 m / 4.0 m  
 CONTRACTOR: Forage Chibougamau      EQUIPMENT: CAT 318CL CAT 318CL

DEPTH (m)	STRATIGRAPHY			SAMPLES			ANALYSES
	ELEVATION (m) / DEPTH	DESCRIPTION	SYMBOL	TYPE - NUMBER	DEPTH	STATE	
	385.84	Ground level					
	0.00	(SW-GP) SAND and GRAVEL; sub-rounded; trace of silt; brown, oxidized; moist, loose.					
	385.54 0.30	Becoming layered; light brown.		GB-01	0.30		
1	385.04 0.80	Becoming with presence of cobbles (~10% by volume) and boulders (~5% by volume); compact.		GB-02	0.80		Gs = 2.68 Proctor GSA w = 5%
2							
3							
4							
	381.34 4.50	End of trench.			4.50		
5							

REMARK(S): End of Test pit due to Equipment reach. No water at bottom.

PREPARED BY: Mathieu Gosselin  
 VERIFIED BY: Mathieu Gosselin



# TEST-PIT REPORT: TP-23-92

CLIENT: TROIILUS GOLD CORPORATION      DATE - BEG. / END: 2023-09-06  
 PROJECT: Troilus Feasibility Study      COORDINATES: N: 5,647,698.7 m E: 534,272.9 m UTM NAD83 Zone 18  
 PROJECT NO.: 2257554002      GROUND ELEV.: 380.38 m  
 LOCATION: Troilus Mine, North of Chibougamau, Québec      LENGTH / WIDTH: 4.0 m / 4.0 m  
 CONTRACTOR: Forage Chibougamau      EQUIPMENT: CAT 318CL CAT 318CL

DEPTH (m)	STRATIGRAPHY			SAMPLES			ANALYSES
	ELEVATION (m) / DEPTH	DESCRIPTION	SYMBOL	TYPE - NUMBER	DEPTH	STATE	
	380.38	Ground level					
0.00		(SW) Gravelly SAND; trace of silt; light brown; trace of cobbles (~1%); sub-rounded; moist, loose.		GB-01	0.00		Gs = 2.63 Proctor GSA w = 4%
1				GB-02	1.00		
2				GB-03	2.00		
2	378.38 2.00	Becoming wet.					GSA w = 9%
3							
4							
5	375.38 5.00	End of trench.					

REMARK(S): End of Test pit due to Equipment reach. No water at bottom.

PREPARED BY: Mathieu Gosselin  
 VERIFIED BY: Mathieu Gosselin

WSP\_EN\_Tranche-Geo.sty

**APPENDIX C**

**Laboratory Test Results**

**Client :** Troilus Gold  
**Project :** Geotechnical Investigation

**File No:** 2257554002  
**Lab No:** 23MG3510

<b>Bore Hole No:</b>	BH-23-20
<b>Sample No:</b>	SS-9
<b>Depth (m):</b>	6,72 à 7,33
<b>Designation:</b>	
<b>Maximum diameter if particles &gt;80 mm</b>	
<b>Weight of sample (g) (&gt;5 mm et &lt;80 mm)</b>	

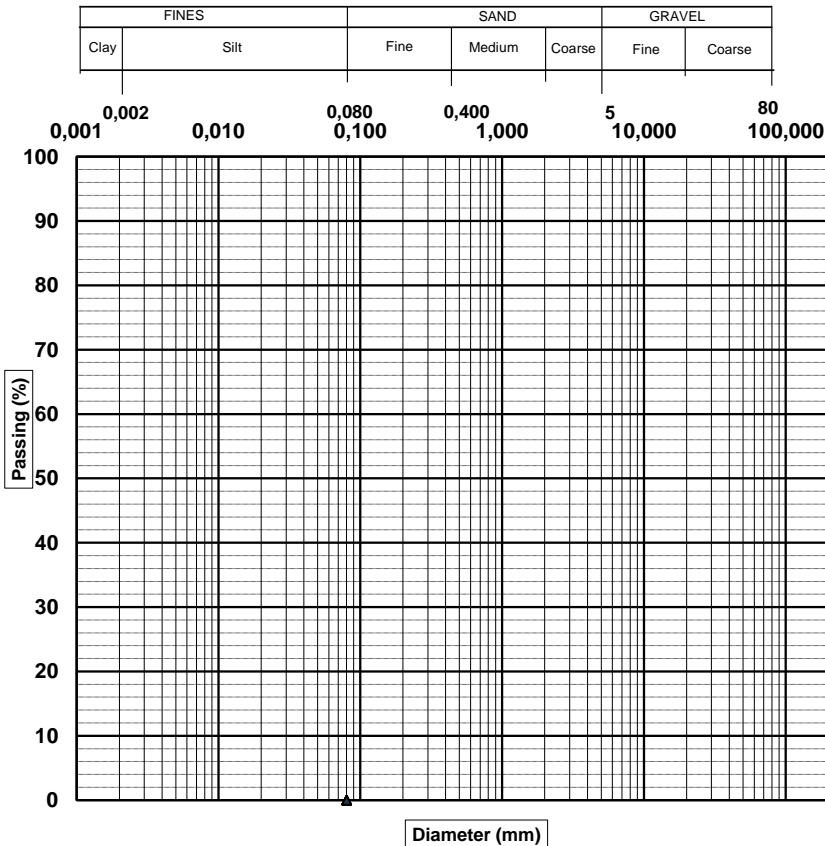
<b>Sampling date (dd-mm-yyyy):</b>	-	
<b>Testing date (dd-mm-yyyy):</b>	20-12-2023	
<b>Classification:</b>		
<b>Others:</b>		
<b>Tests</b>	<b>Standard</b>	<b>Results</b>
<b>Moisture (%)</b>	BNQ 2501-170	
<b>Liquid limit fall cone (W<sub>L</sub>)</b>	BNQ 2501-092	
<b>Plastic limit fall cone (W<sub>p</sub>)</b>	BNQ 2501-092	
<b>Plastic index (I<sub>p</sub>)</b>	BNQ 2501-092	
<b>Liquid index (I<sub>l</sub>)</b>	BNQ 2501-110	
<b>Shear resistance Intact (C<sub>i</sub>)</b>	BNQ 2501-110	
<b>Shear resistance Redesigned (C<sub>UR</sub>)</b>	BNQ 2501-110	
<b>Sensibility (S<sub>v</sub>)</b>	BNQ 2501-110	
<b>Relative density of solids (D<sub>r</sub>)</b>	BNQ 2501-070	2,671

Grain size distribution				
Fine Fraction		Coarse Fraction		
Clay (%)	Silt (%)	Sand (%)	Gravel (%)	Cobble (%)
-	-	-	-	-

D10 (mm)	D30 (mm)	D60 (mm)	Cu	Cc
N/D	N/D	N/D	N/D	N/D

## Grain size distribution BNQ 2501-025



Diameter (mm)	% passing	Requirement
112		
80		
56		
40		
31,5		
20		
14		
10		
5		
2,5		
1,25		
0,630		
0,315		
0,160		
0,080		

**Remarks :**

Prepared by: Timothy Lewyckyj, Tech. Date: 25-01-2024  
 Reviewed by: Eric Cardinal, Tech. Sr. Date: 26-01-2024

**Client :** Troilus Gold  
**Project :** Geotechnical Investigation

**File No:** 2257554002  
**Lab No:** 23MG3521

<b>Bore Hole No:</b>	BH-23-52
<b>Sample No:</b>	SS-4
<b>Depth (m):</b>	1,8288 à 2,4384
<b>Designation:</b>	
<b>Maximum diameter if particles &gt;80 mm</b>	
<b>Weight of sample (g) (&gt;5 mm et &lt;80 mm)</b>	

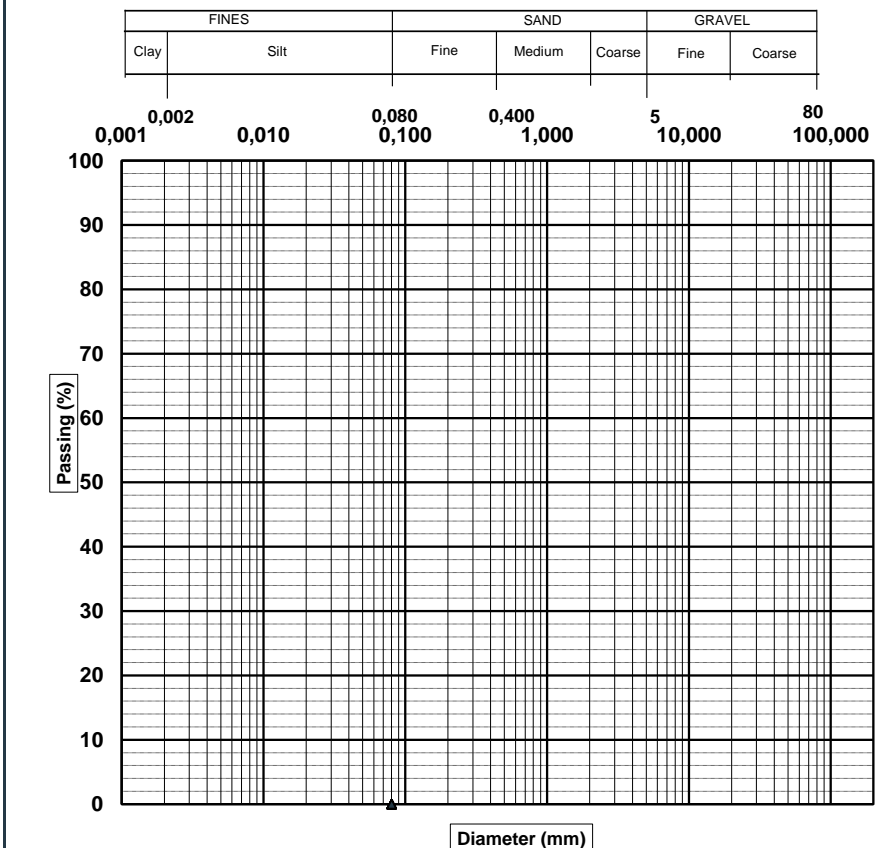
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<b>Testing date (dd-mm-yyyy):</b>	20-12-2023	
<b>Classification:</b>		
<b>Others:</b>		
<b>Tests</b>	<b>Standard</b>	<b>Results</b>
<b>Moisture (%)</b>	BNQ 2501-170	
<b>Liquid limit fall cone (W<sub>L</sub>)</b>	BNQ 2501-092	
<b>Plastic limit fall cone (W<sub>p</sub>)</b>	BNQ 2501-092	
<b>Plastic index (I<sub>p</sub>)</b>	BNQ 2501-092	
<b>Liquid index (I<sub>l</sub>)</b>	BNQ 2501-110	
<b>Shear resistance Intact (C<sub>i</sub>)</b>	BNQ 2501-110	
<b>Shear resistance Redesigned (C<sub>UR</sub>)</b>	BNQ 2501-110	
<b>Sensibility (S<sub>v</sub>)</b>	BNQ 2501-110	
<b>Relative density of solids (D<sub>r</sub>)</b>	BNQ 2501-070	2,524

Grain size distribution				
Fine Fraction		Coarse Fraction		
Clay (%)	Silt (%)	Sand (%)	Gravel (%)	Cobble (%)
-	-	-	-	-

D10 (mm)	D30 (mm)	D60 (mm)	Cu	Cc
N/D	N/D	N/D	N/D	N/D

**Grain size distribution BNQ 2501-025**



Diameter (mm)	% passing	Requirement
112		
80		
56		
40		
31,5		
20		
14		
10		
5		
2,5		
1,25		
0,630		
0,315		
0,160		
0,080		

**Remarks :**

Prepared by: Timothy Lewyckyj, Tech. Date: 25-01-2024  
 Reviewed by: Eric Cardinal, Tech. Sr. Date: 26-01-2024

**Client :** Troilus Gold  
**Project :** Geotechnical Investigation

**File No:** 2257554002  
**Lab No:** 23MG3502

<b>Bore Hole No:</b>	BH-23-56
<b>Sample No:</b>	CF-2
<b>Depth (m):</b>	0,61 à 1,22
<b>Designation:</b>	
<b>Maximum diameter if particles &gt;80 mm</b>	
<b>Weight of sample (g) (&gt;5 mm et &lt;80 mm)</b>	

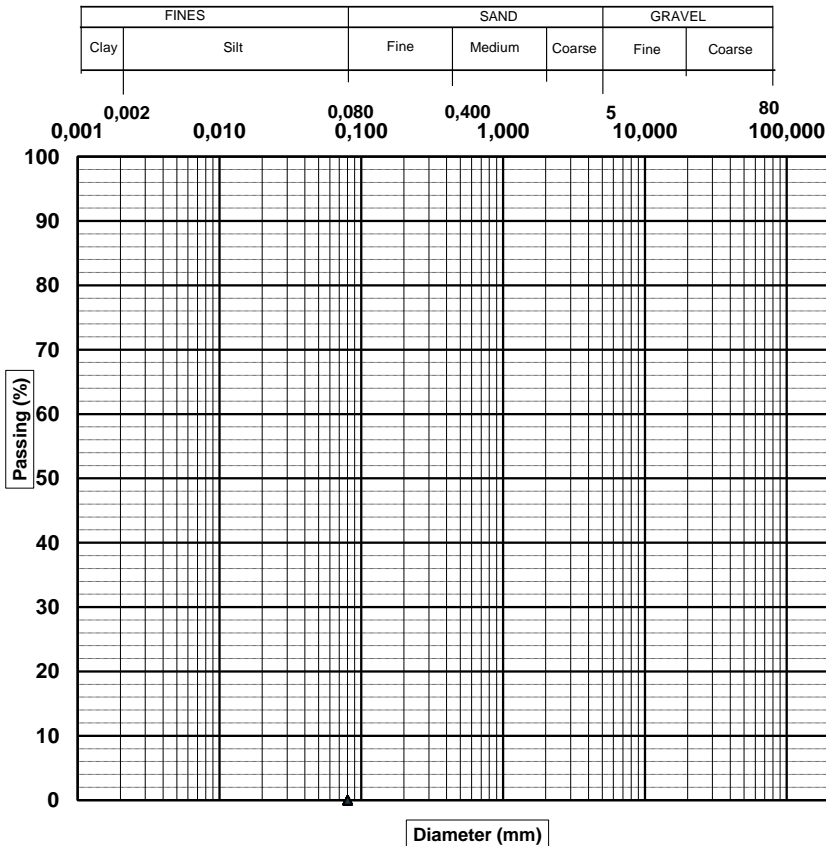
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<b>Testing date (dd-mm-yyyy):</b>	20-12-2023	
<b>Classification:</b>		
<b>Others:</b>		
<b>Tests</b>	<b>Standard</b>	<b>Results</b>
<b>Moisture (%)</b>	BNQ 2501-170	
<b>Liquid limit fall cone (W<sub>L</sub>)</b>	BNQ 2501-092	
<b>Plastic limit fall cone (W<sub>p</sub>)</b>	BNQ 2501-092	
<b>Plastic index (I<sub>p</sub>)</b>	BNQ 2501-092	
<b>Liquid index (I<sub>l</sub>)</b>	BNQ 2501-110	
<b>Shear resistance Intact (C<sub>i</sub>)</b>	BNQ 2501-110	
<b>Shear resistance Redesigned (C<sub>UR</sub>)</b>	BNQ 2501-110	
<b>Sensibility (S<sub>v</sub>)</b>	BNQ 2501-110	
<b>Relative density of solids (D<sub>r</sub>)</b>	BNQ 2501-070	2,688

Grain size distribution				
Fine Fraction		Coarse Fraction		
Clay (%)	Silt (%)	Sand (%)	Gravel (%)	Cobble (%)
-	-	-	-	-

D10 (mm)	D30 (mm)	D60 (mm)	Cu	Cc
N/D	N/D	N/D	N/D	N/D

## Grain size distribution BNQ 2501-025



Diameter (mm)	% passing	Requirement
112		
80		
56		
40		
31,5		
20		
14		
10		
5		
2,5		
1,25		
0,630		
0,315		
0,160		
0,080		

**Remarks :**

Prepared by: Timothy Lewyckyj, Tech. Date: 25-01-2024  
 Reviewed by: Eric Cardinal, Tech. Sr. Date: 26-01-2024

**Client :** Troilus Gold  
**Project :** Geotechnical Investigation

**File No:** 2257554002  
**Lab No:** 23MG2234

<b>Bore Hole No:</b>	BH-23-72
<b>Sample No:</b>	SS-2
<b>Depth (m):</b>	1,22 à 1,83
<b>Designation:</b>	
<b>Maximum diameter if particles &gt;80 mm</b>	
<b>Weight of sample (g) (&gt;5 mm et &lt;80 mm)</b>	

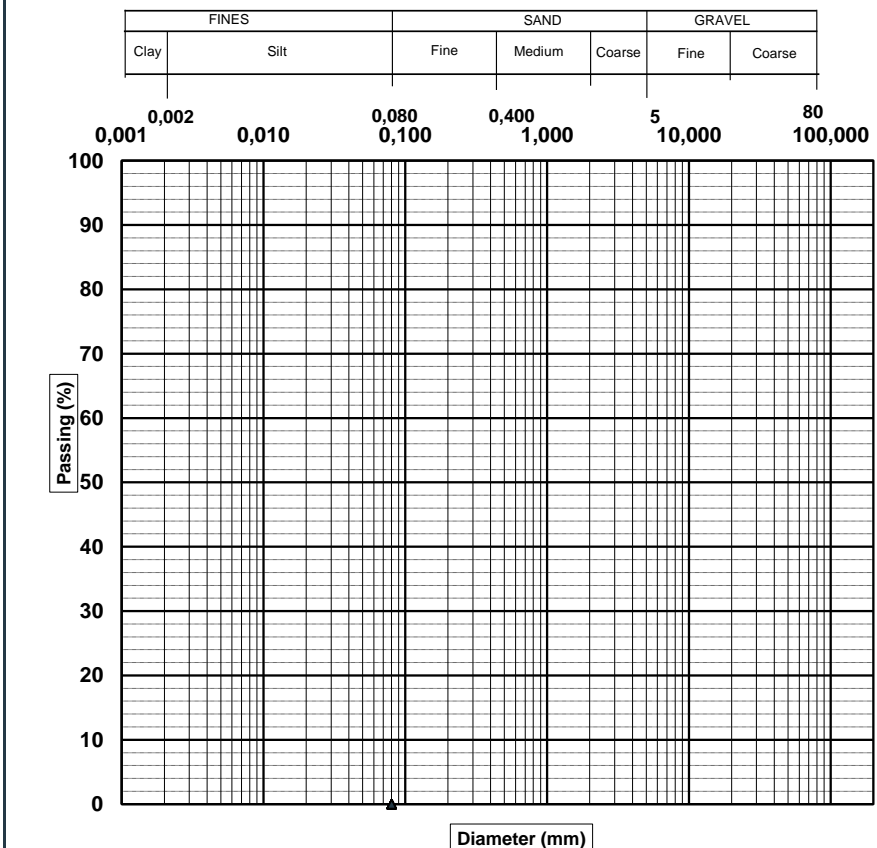
<b>Sampling date (dd-mm-yyyy):</b>	-	
<b>Testing date (dd-mm-yyyy):</b>	10-11-2023	
<b>Classification:</b>		
<b>Others:</b>		
<b>Tests</b>	<b>Standard</b>	<b>Results</b>
<b>Moisture (%)</b>	BNQ 2501-170	
<b>Liquid limit fall cone (W<sub>L</sub>)</b>	BNQ 2501-092	
<b>Plastic limit fall cone (W<sub>p</sub>)</b>	BNQ 2501-092	
<b>Plastic index (I<sub>p</sub>)</b>	BNQ 2501-092	
<b>Liquid index (I<sub>L</sub>)</b>	BNQ 2501-110	
<b>Shear resistance Intact (C<sub>i</sub>)</b>	BNQ 2501-110	
<b>Shear resistance Redesigned (C<sub>UR</sub>)</b>	BNQ 2501-110	
<b>Sensibility (S<sub>v</sub>)</b>	BNQ 2501-110	
<b>Relative density of solids (D<sub>r</sub>)</b>	BNQ 2501-070	2,698

Grain size distribution				
Fine Fraction		Coarse Fraction		
Clay (%)	Silt (%)	Sand (%)	Gravel (%)	Cobble (%)
-	-	-	-	-

D10 (mm)	D30 (mm)	D60 (mm)	Cu	Cc
N/D	N/D	N/D	N/D	N/D

**Grain size distribution BNQ 2501-025**



Diameter (mm)	% passing	Requirement
112		
80		
56		
40		
31,5		
20		
14		
10		
5		
2,5		
1,25		
0,630		
0,315		
0,160		
0,080		

**Remarks :**

Prepared by : Timothy Lewyckyj, Tech. Date : 25-01-2024  
 Reviewed by : Eric Cardinal, Tech. Sr. Date : 26-01-2024

**Client :** Troilus Gold  
**Project :** Geotechnical Investigation

**File No:** 2257554002  
**Lab No:** 23MG2238

<b>Bore Hole No:</b>	BH-23-77
<b>Sample No:</b>	SS-2
<b>Depth (m):</b>	0,61 à 1,22
<b>Designation:</b>	
<b>Maximum diameter if particles &gt;80 mm</b>	
<b>Weight of sample (g) (&gt;5 mm et &lt;80 mm)</b>	

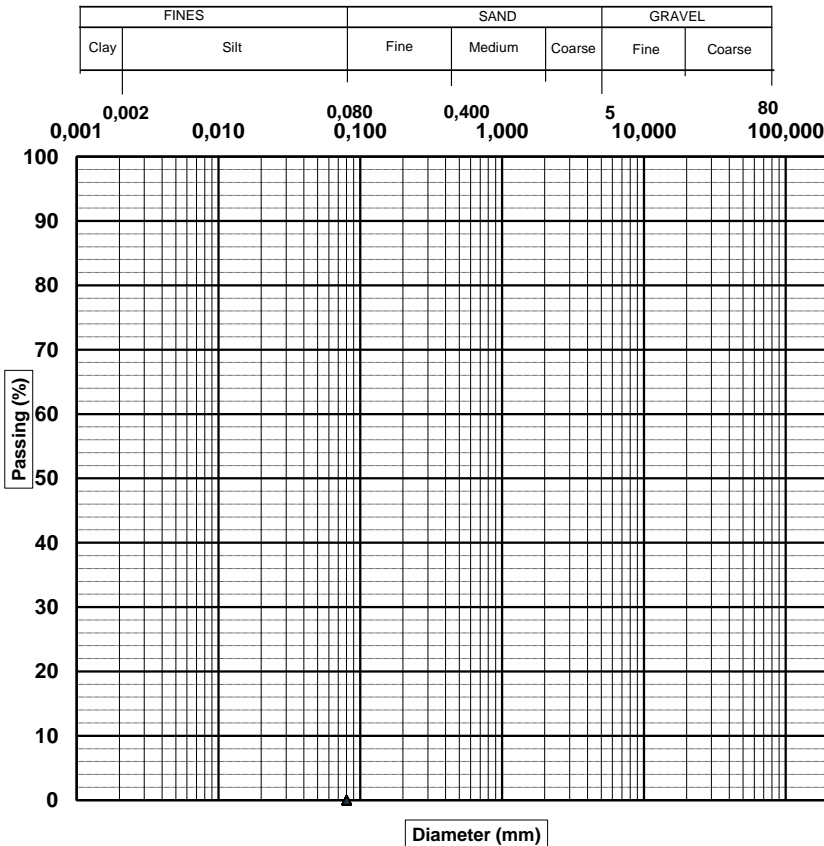
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<b>Testing date (dd-mm-yyyy):</b>	04-10-2023	
<b>Classification:</b>		
<b>Others:</b>		
<b>Tests</b>	<b>Standard</b>	<b>Results</b>
<b>Moisture (%)</b>	BNQ 2501-170	
<b>Liquid limit fall cone (W<sub>L</sub>)</b>	BNQ 2501-092	
<b>Plastic limit fall cone (W<sub>p</sub>)</b>	BNQ 2501-092	
<b>Plastic index (I<sub>p</sub>)</b>	BNQ 2501-092	
<b>Liquid index (I<sub>L</sub>)</b>	BNQ 2501-110	
<b>Shear resistance Intact (C<sub>i</sub>)</b>	BNQ 2501-110	
<b>Shear resistance Redesigned (C<sub>UR</sub>)</b>	BNQ 2501-110	
<b>Sensibility (S<sub>v</sub>)</b>	BNQ 2501-110	
<b>Relative density of solids (D<sub>r</sub>)</b>	BNQ 2501-070	2,691

Grain size distribution				
Fine Fraction		Coarse Fraction		
Clay (%)	Silt (%)	Sand (%)	Gravel (%)	Cobble (%)
-	-	-	-	-

D10 (mm)	D30 (mm)	D60 (mm)	Cu	Cc
N/D	N/D	N/D	N/D	N/D

**Grain size distribution BNQ 2501-025**



Diameter (mm)	% passing	Requirement
112		
80		
56		
40		
31,5		
20		
14		
10		
5		
2,5		
1,25		
0,630		
0,315		
0,160		
0,080		

**Remarks :**

Prepared by: Timothy Lewyckyj, Tech. Date: 25-01-2024  
 Reviewed by: Eric Cardinal, Tech. Sr. Date: 26-01-2024

**Client :** Troilus Gold  
**Project :** Geotechnical Investigation

**File No:** 2257554002  
**Lab No:** 23MG2243

<b>Bore Hole No:</b>	MW-23-24
<b>Sample No:</b>	SS-1
<b>Depth (m):</b>	0,61 à 1,22
<b>Designation:</b>	
<b>Maximum diameter if particles &gt;80 mm</b>	
<b>Weight of sample (g) (&gt;5 mm et &lt;80 mm)</b>	

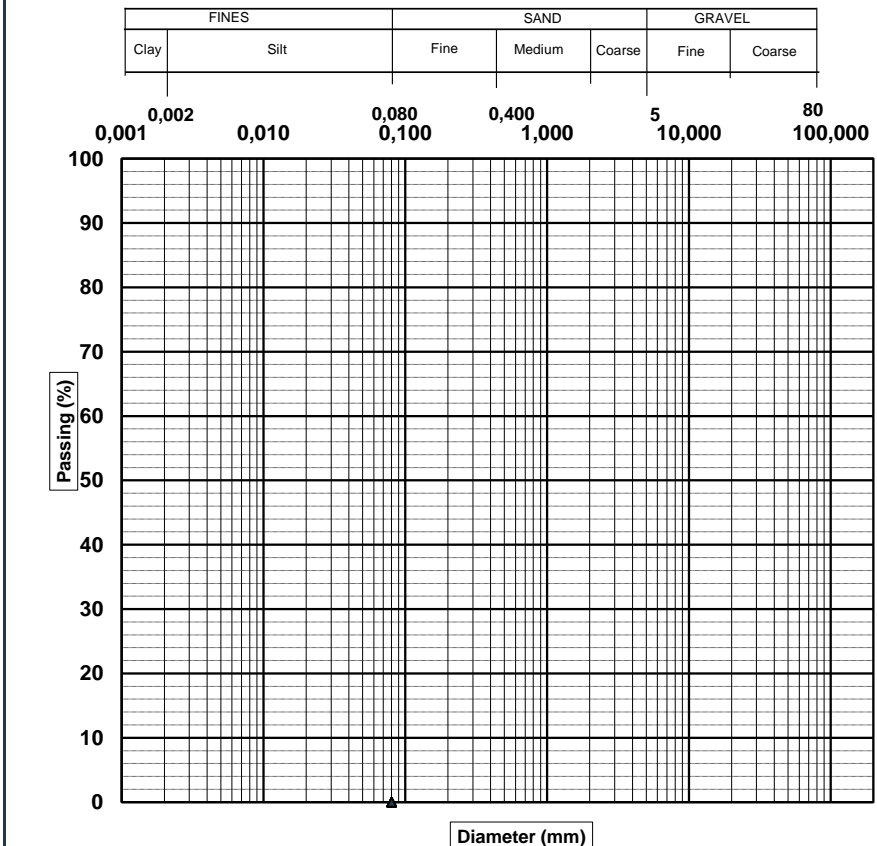
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<b>Testing date (dd-mm-yyyy):</b>	04-10-2023	
<b>Classification:</b>		
<b>Others:</b>		
<b>Tests</b>	<b>Standard</b>	<b>Results</b>
<b>Moisture (%)</b>	BNQ 2501-170	
<b>Liquid limit fall cone (W<sub>L</sub>)</b>	BNQ 2501-092	
<b>Plastic limit fall cone (W<sub>p</sub>)</b>	BNQ 2501-092	
<b>Plastic index (I<sub>p</sub>)</b>	BNQ 2501-092	
<b>Liquid index (I<sub>l</sub>)</b>	BNQ 2501-110	
<b>Shear resistance Intact (C<sub>i</sub>)</b>	BNQ 2501-110	
<b>Shear resistance Redesigned (C<sub>UR</sub>)</b>	BNQ 2501-110	
<b>Sensibility (S<sub>v</sub>)</b>	BNQ 2501-110	
<b>Relative density of solids (D<sub>r</sub>)</b>	BNQ 2501-070	2,635

Grain size distribution				
Fine Fraction		Coarse Fraction		
Clay (%)	Silt (%)	Sand (%)	Gravel (%)	Cobble (%)
-	-	-	-	-

D10 (mm)	D30 (mm)	D60 (mm)	Cu	Cc
N/D	N/D	N/D	N/D	N/D

**Grain size distribution BNQ 2501-025**



Diameter (mm)	% passing	Requirement
112		
80		
56		
40		
31,5		
20		
14		
10		
5		
2,5		
1,25		
0,630		
0,315		
0,160		
0,080		

**Remarks :**

Prepared by: Timothy Lewyckyj, Tech. Date: 25-01-2024  
 Reviewed by: Eric Cardinal, Tech. Sr. Date: 26-01-2024

**Client :** Troilus Gold  
**Project :** Geotechnical Investigation

**File No:** 2257554002  
**Lab No:** 23MG2107

<b>Bore Hole No:</b>	TP-23-90
<b>Sample No:</b>	GR-2
<b>Depth (m):</b>	0,40 à 2,00
<b>Designation:</b>	
<b>Maximum diameter if particles &gt;80 mm</b>	
<b>Weight of sample (g) (&gt;5 mm et &lt;80 mm)</b>	

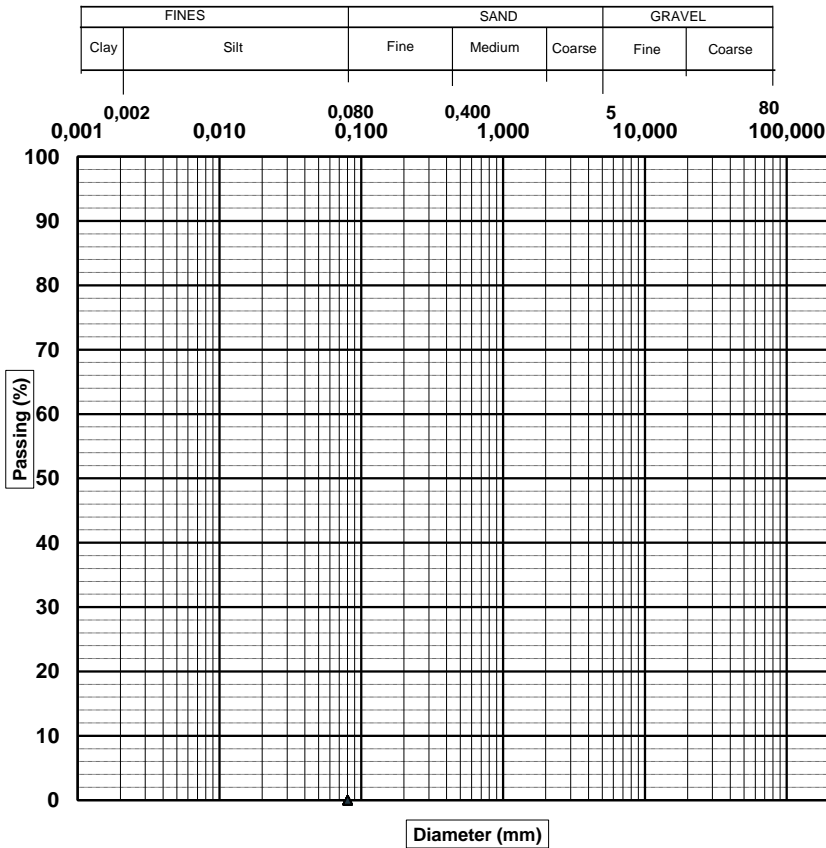
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<b>Testing date (dd-mm-yyyy):</b>	10-11-2023	
<b>Classification:</b>		
<b>Others:</b>		
<b>Tests</b>	<b>Standard</b>	<b>Results</b>
<b>Moisture (%)</b>	BNQ 2501-170	
<b>Liquid limit fall cone (W<sub>L</sub>)</b>	BNQ 2501-092	
<b>Plastic limit fall cone (W<sub>p</sub>)</b>	BNQ 2501-092	
<b>Plastic index (I<sub>p</sub>)</b>	BNQ 2501-092	
<b>Liquid index (I<sub>L</sub>)</b>	BNQ 2501-110	
<b>Shear resistance Intact (C<sub>i</sub>)</b>	BNQ 2501-110	
<b>Shear resistance Redesigned (C<sub>UR</sub>)</b>	BNQ 2501-110	
<b>Sensibility (S<sub>v</sub>)</b>	BNQ 2501-110	
<b>Relative density of solids (D<sub>r</sub>)</b>	BNQ 2501-070	2,668

Grain size distribution				
Fine Fraction		Coarse Fraction		
Clay (%)	Silt (%)	Sand (%)	Gravel (%)	Cobble (%)
-	-	-	-	-

D10 (mm)	D30 (mm)	D60 (mm)	Cu	Cc
N/D	N/D	N/D	N/D	N/D

**Grain size distribution BNQ 2501-025**



Diameter (mm)	% passing	Requirement
112		
80		
56		
40		
31,5		
20		
14		
10		
5		
2,5		
1,25		
0,630		
0,315		
0,160		
0,080		

**Remarks :**

Proctor: 1655 kg/m<sup>3</sup> @ 16,2%

Prepared by: Timothy Lewyckj, Tech. Date: 25-01-2024  
 Reviewed by: Eric Cardinal, Tech. Sr. Date: 26-01-2024

**Client :** Troilus Gold  
**Project :** Geotechnical Investigation

**File No:** 2257554002  
**Lab No:** 23MG2109

<b>Bore Hole No:</b>	TP-23-91
<b>Sample No:</b>	GR-2
<b>Depth (m):</b>	0,80 à 4,00
<b>Designation:</b>	
<b>Maximum diameter if particles &gt;80 mm</b>	
<b>Weight of sample (g) (&gt;5 mm et &lt;80 mm)</b>	

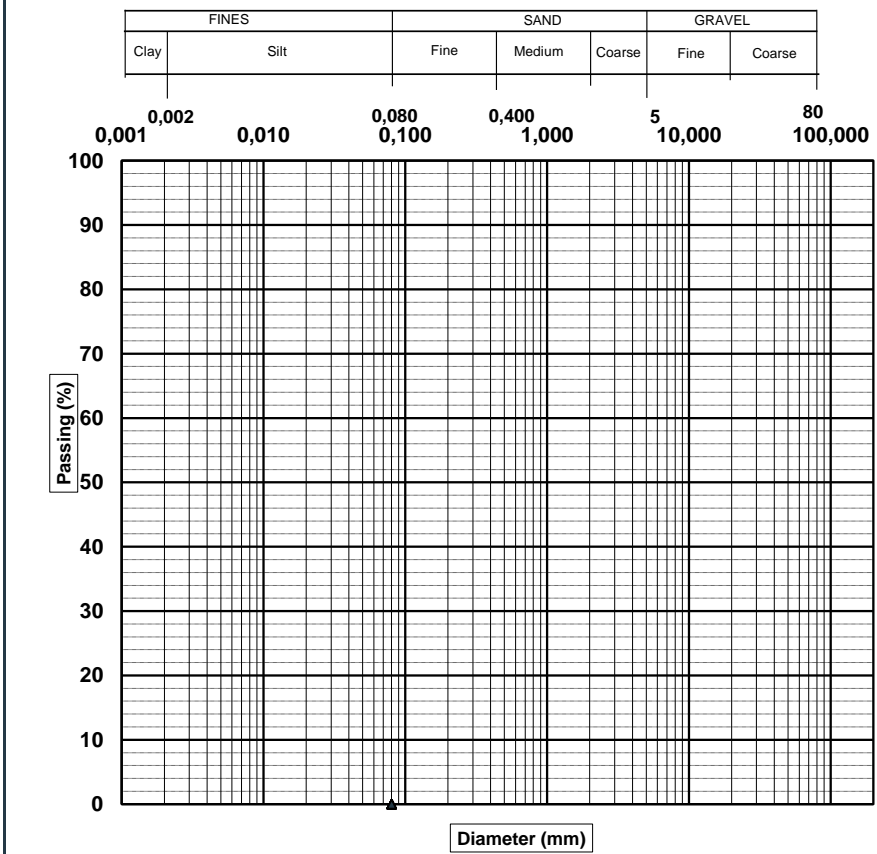
<b>Sampling date (dd-mm-yyyy):</b>	-	
<b>Testing date (dd-mm-yyyy):</b>	10-11-2023	
<b>Classification:</b>		
<b>Others:</b>		
<b>Tests</b>	<b>Standard</b>	<b>Results</b>
<b>Moisture (%)</b>	BNQ 2501-170	
<b>Liquid limit fall cone (W<sub>L</sub>)</b>	BNQ 2501-092	
<b>Plastic limit fall cone (W<sub>p</sub>)</b>	BNQ 2501-092	
<b>Plastic index (I<sub>p</sub>)</b>	BNQ 2501-092	
<b>Liquid index (I<sub>L</sub>)</b>	BNQ 2501-110	
<b>Shear resistance Intact (C<sub>i</sub>)</b>	BNQ 2501-110	
<b>Shear resistance Redesigned (C<sub>UR</sub>)</b>	BNQ 2501-110	
<b>Sensibility (S<sub>v</sub>)</b>	BNQ 2501-110	
<b>Relative density of solids (D<sub>r</sub>)</b>	BNQ 2501-070	2,679

Grain size distribution				
Fine Fraction		Coarse Fraction		
Clay (%)	Silt (%)	Sand (%)	Gravel (%)	Cobble (%)
-	-	-	-	-

D10 (mm)	D30 (mm)	D60 (mm)	Cu	Cc
N/D	N/D	N/D	N/D	N/D

**Grain size distribution BNQ 2501-025**



**Client :** Troilus Gold  
**Project :** Geotechnical Investigation

**File No:** 2257554002  
**Lab No:** 23MG2110

<b>Bore Hole No:</b>	TP-23-92
<b>Sample No:</b>	GR-2
<b>Depth (m):</b>	1,00 à 2,00
<b>Designation:</b>	
<b>Maximum diameter if particles &gt;80 mm</b>	
<b>Weight of sample (g) (&gt;5 mm et &lt;80 mm)</b>	

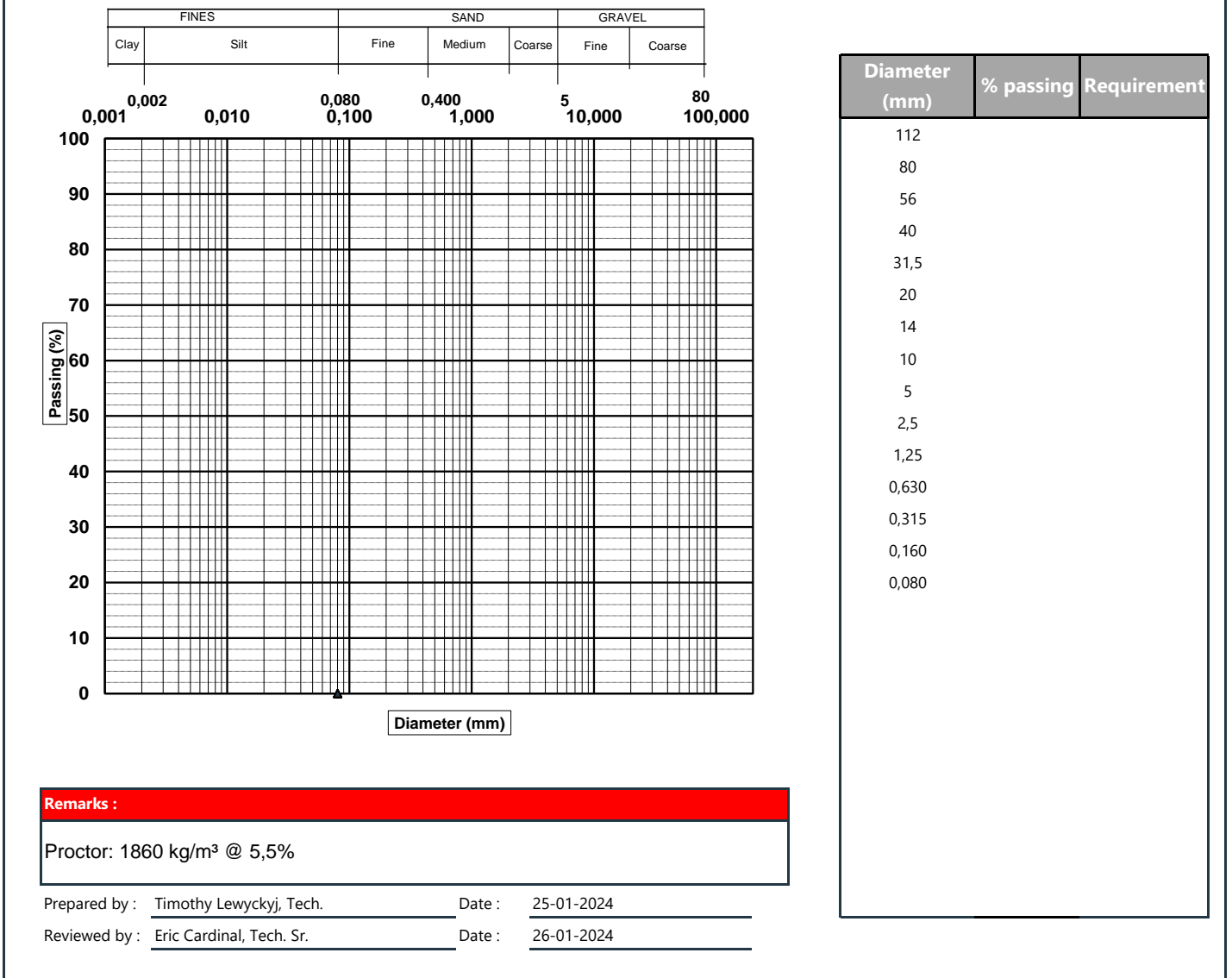
<b>Sampling date (dd-mm-yyyy):</b>	-	
<b>Testing date (dd-mm-yyyy):</b>	10-11-2023	
<b>Classification:</b>		
<b>Others:</b>		
<b>Tests</b>	<b>Standard</b>	<b>Results</b>
<b>Moisture (%)</b>	BNQ 2501-170	
<b>Liquid limit fall cone (W<sub>L</sub>)</b>	BNQ 2501-092	
<b>Plastic limit fall cone (W<sub>p</sub>)</b>	BNQ 2501-092	
<b>Plastic index (I<sub>p</sub>)</b>	BNQ 2501-092	
<b>Liquid index (I<sub>L</sub>)</b>	BNQ 2501-110	
<b>Shear resistance Intact (C<sub>i</sub>)</b>	BNQ 2501-110	
<b>Shear resistance Redesigned (C<sub>UR</sub>)</b>	BNQ 2501-110	
<b>Sensibility (S<sub>v</sub>)</b>	BNQ 2501-110	
<b>Relative density of solids (D<sub>r</sub>)</b>	BNQ 2501-070	2,634

Grain size distribution				
Fine Fraction		Coarse Fraction		
Clay (%)	Silt (%)	Sand (%)	Gravel (%)	Cobble (%)
-	-	-	-	-

D10 (mm)	D30 (mm)	D60 (mm)	Cu	Cc
N/D	N/D	N/D	N/D	N/D

## Grain size distribution BNQ 2501-025



### SCHEDULE OF LABORATORY TESTS

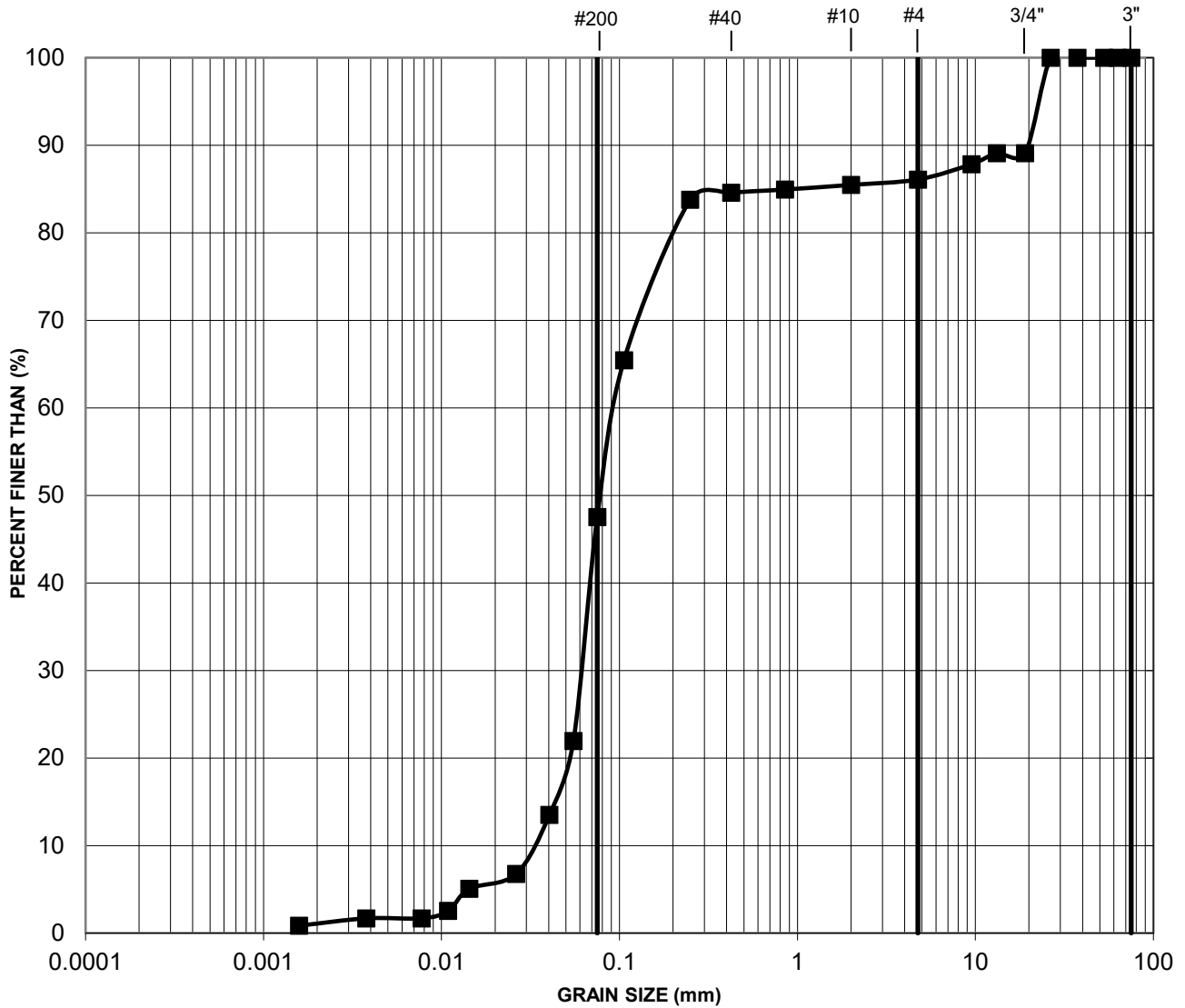
<b>Project No./Phase/Task:</b>	2257554002-4000-4001
<b>Project Name:</b>	Troilus Mine Project
<b>Client:</b>	Troilus Gold Corporation
<b>Org:</b>	
<b>Scheduled By:</b>	Anyssa Bertrand-Locas
<b>Date Scheduled:</b>	
<b>Due Date:</b>	
<b>Depth Units (select m/ft):</b>	m
<b>Water Content Lab No.:</b>	G1226

Borehole Number	Sample Number	Sample Top Depth (m)	Sample Bottom Depth (m)	Moisture Content	General Sieve	Hydrometer	Granular Gradation	Atterberg Limits	Proctor	Organic Content	Specific Gravity	DSS	perm	Lab Number
BH-23-15	CF-4	2.29	2.9	x		x								G1227
BH-23-15	CF-5	3.05	3.66	x		x		x						G1228
BH-23-16	CF-2	0.76	1.37	x		x								G1229
BH-23-16	CF-5	3.05	3.66	x		x			x		x			G1230
BH-23-17	CF-5	3.05	3.66	x		x		x						G1231
BH-23-18	CF-3	1.01	1.34	x		x								G1232
BH-23-18	CF-8	4.57	5.18	x		x			x		x			G1233
BH-23-18	CF-10	6.1	6.71	x		x								G1234
BH-23-18	CF-13	8.38	8.99	x		x								G1235
BH-23-21	CF-7	4.57	5.18	x		x								G1236
BH-23-21	CF-11	4.57	8.23	x										
BH-23-21	CF-15	10.67	11.28	x		x								G1237
BH-23-22	CF-1C	0.45	0.61	x		x								G1238
BH-23-23	CF-4	2.32	2.59	x		x								G1239
BH-23-26	CF-7	4.57	5.18	x		x								G1240
BH-23-26	CF-9	6.1	6.71	x										
BH-23-36	CF-2	0.76	1.37	x		x								G1241
BH-23-44	CF-3	1.52	2.13	x										
BH-23-45	CF-2	0.76	1.37	x		x								G1242
BH-23-46	CF-1	0	0.61	x										
BH-23-47	CF-3	1.52	2.13	x										
BH-23-47	CF-7	4.57	5.18	x		x								G1243
BH-23-48	CF-6	3.96	4.57	x		x								G1244
BH-23-50	CF-2B	1.83	2.13	x										
BH-23-51	CF-2B	1.07	1.37	x										
BH-23-51	CF-5	3.05	3.66	x		x		x						G1245
MW-23-25	CF-6	3.81	4.42	x		x								G1246
MW-23-25	CF-9	6.1	6.71	x		x		x			x			G1247
MW-23-25	CF-12	8.38	8.99	x		x								G1248



# GRAIN SIZE DISTRIBUTION

FIGURE



SILT AND CLAY	FINE	MEDIUM	COARSE	FINE	COARSE	COBBLE SIZE
	SAND SIZE			GRAVEL SIZE		

BH / Location	Sample	Depth
BH-23-15	CF-4	2.29m - 2.9m

Project No./Phase/Task: 2257554002-4000-4001

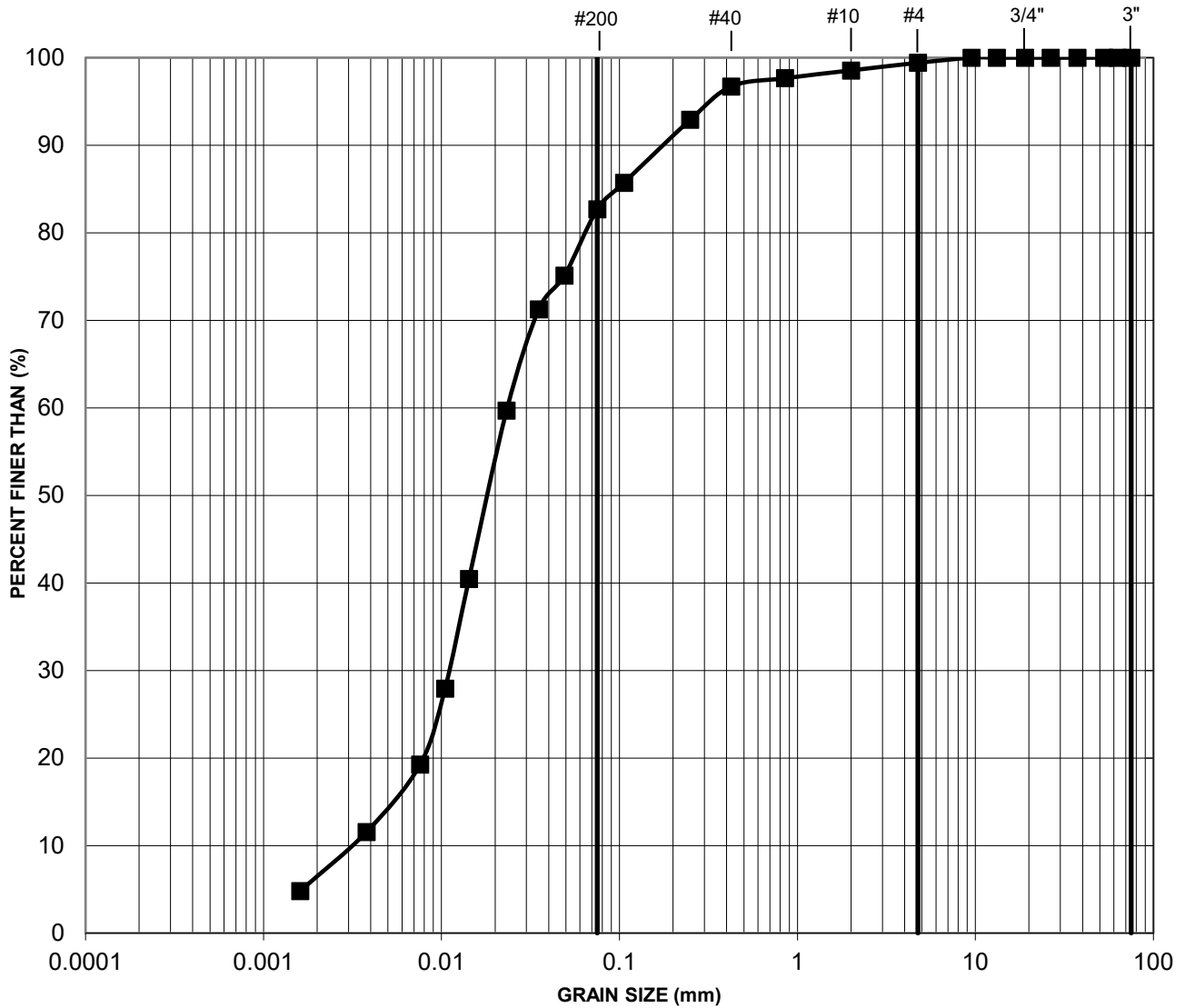
Project Name: Troilus Gold Corporation/Troilus Mine Project

Reviewed by: TG



# GRAIN SIZE DISTRIBUTION

FIGURE



SILT AND CLAY	FINE	MEDIUM	COARSE	FINE	COARSE	COBBLE SIZE
	SAND SIZE			GRAVEL SIZE		

BH / Location	Sample	Depth
BH-23-16	CF-2	0.76m - 1.37m

Project No./Phase/Task: 2257554002-4000-4001

Project Name: Troilus Gold Corporation/Troilus Mine Project

Reviewed by: TG



**Liquid Limit, Plastic Limit and Plasticity Index of Soils  
ASTM D4318**

**Project No./Phase/Task:** 2257554002-4000-4001

**Project Name:** Troilus Gold Corporation/Troilus Mine Project

**Test Date:** 08-Jun-23

**Technician:** tg

**Lab Number:** G1231

**Borehole:** BH-23-17

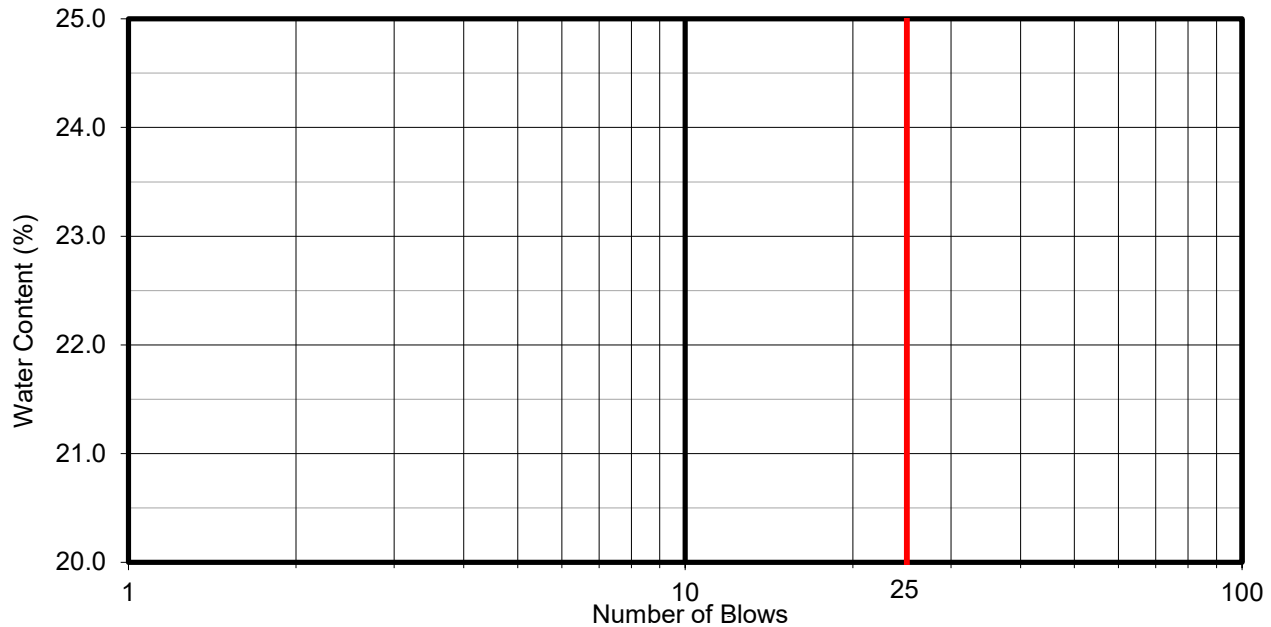
**Sample Number:** CF-5

**Depth of Sample:** 3.05m - 3.66m

**PLASTIC/NON-PLASTIC:** Non-Plastic

TYPE OF TEST	LL					W <sub>n</sub>	PL		
CONTAINER NUMBER						X			
NUMBER OF BLOWS						X	X	X	X
MASS WET SOIL + TARE (g)						532.84			
MASS DRY SOIL + TARE (g)						488.09			
MASS OF WATER (g)						44.75			
MASS OF CONTAINER (g)						238.04			
MASS OF DRY SOIL (g)						250.05			
WATER CONTENT W (%)						17.9			

<b>LIQUID LIMIT (%)</b>	NP
<b>PLASTIC LIMIT (%)</b>	NP
<b>PLASTICITY INDEX (%)</b>	NP
<b>W NATURAL (%)</b>	NP
<b>LIQUIDITY INDEX</b>	NP



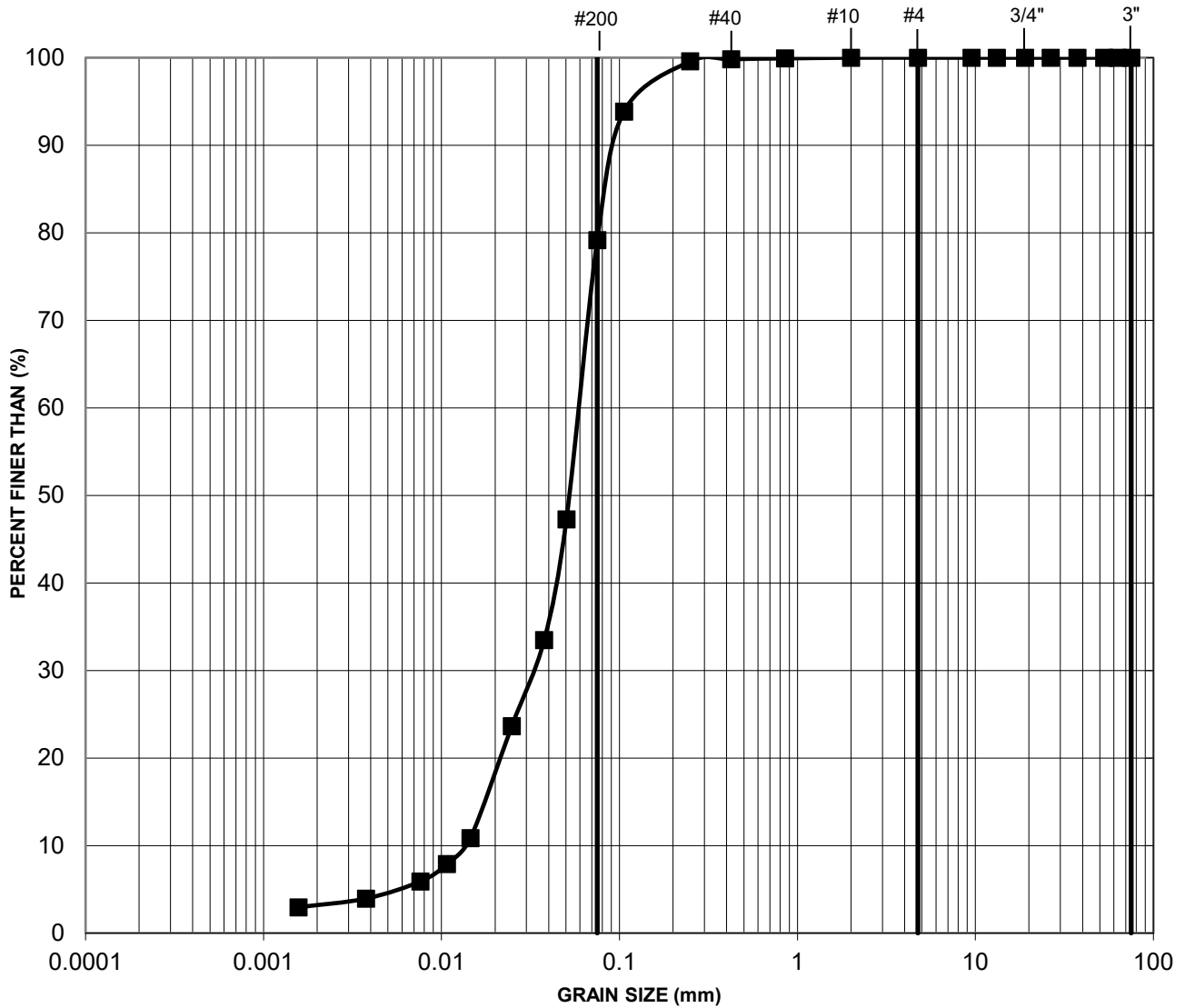
**SAMPLE DESCRIPTION:**

Reviewed by: TG



# GRAIN SIZE DISTRIBUTION

FIGURE



SILT AND CLAY	FINE	MEDIUM	COARSE	FINE	COARSE	COBBLE SIZE
	SAND SIZE			GRAVEL SIZE		

BH / Location	Sample	Depth
BH-23-17	CF-5	3.05m - 3.66m

Project No./Phase/Task: 2257554002-4000-4001

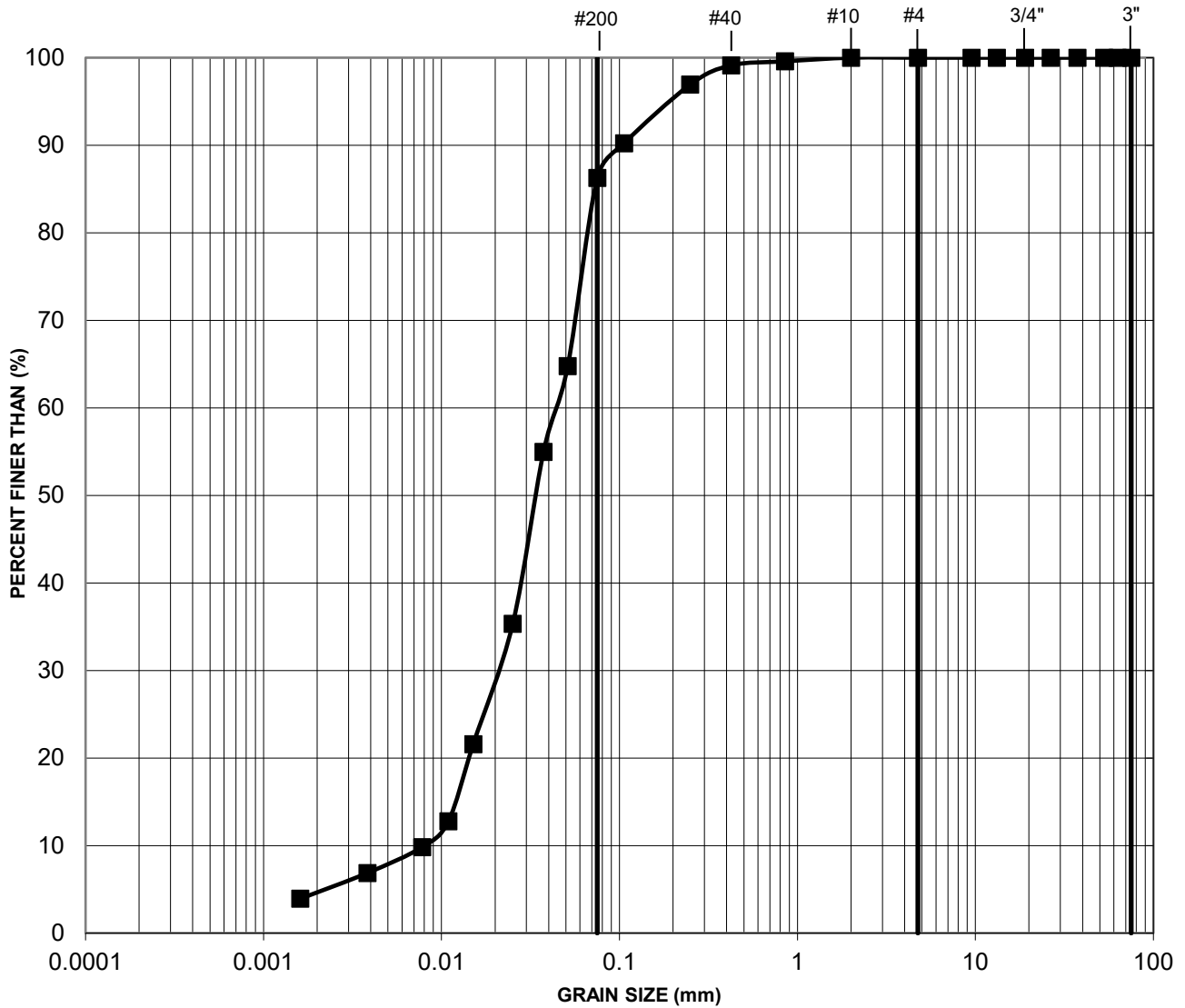
Project Name: Troilus Gold Corporation/Troilus Mine Project

Reviewed by: TG



# GRAIN SIZE DISTRIBUTION

FIGURE



SILT AND CLAY	FINE	MEDIUM	COARSE	FINE	COARSE	COBBLE SIZE
	SAND SIZE			GRAVEL SIZE		

BH / Location	Sample	Depth
BH-23-18	CF-3	1.01m - 1.34m

Project No./Phase/Task: 2257554002-4000-4001

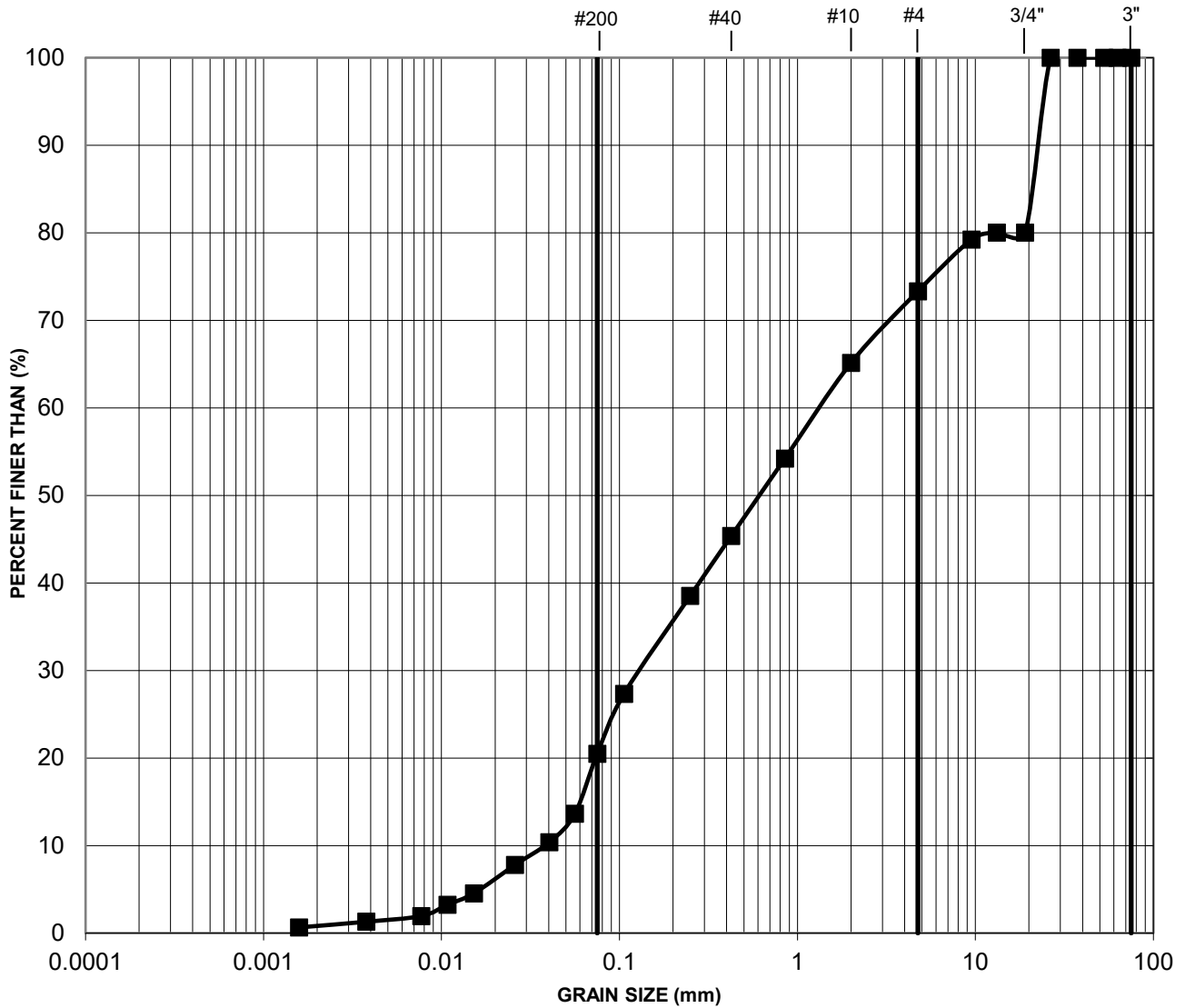
Project Name: Troilus Gold Corporation/Troilus Mine Project

Reviewed by: TG



# GRAIN SIZE DISTRIBUTION

FIGURE



SILT AND CLAY	FINE	MEDIUM	COARSE	FINE	COARSE	COBBLE SIZE
	SAND SIZE			GRAVEL SIZE		

BH / Location	Sample	Depth
BH-23-18	CF-10	6.1m - 6.71m

Project No./Phase/Task: 2257554002-4000-4001

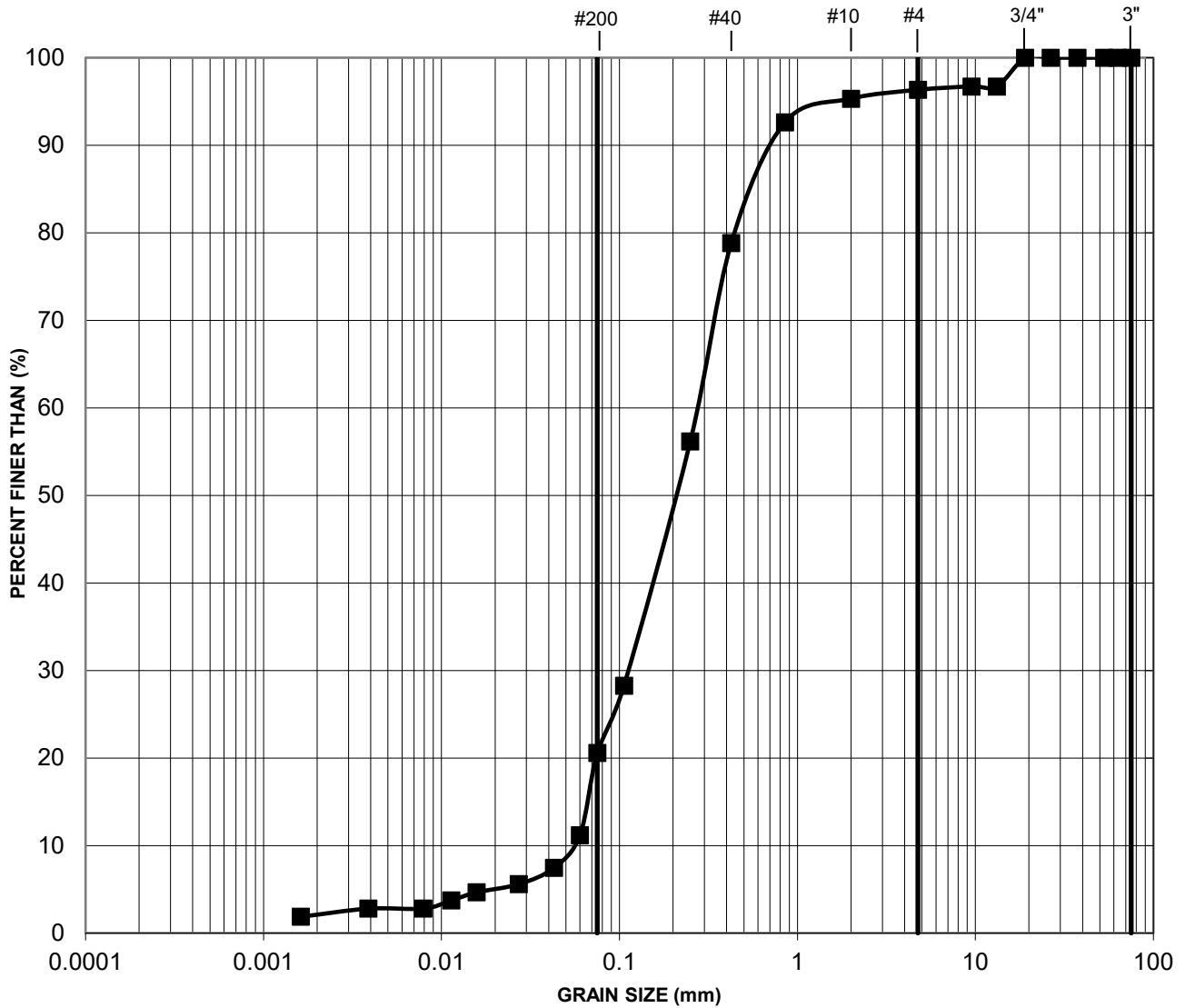
Project Name: Troilus Gold Corporation/Troilus Mine Project

Reviewed by: TG



# GRAIN SIZE DISTRIBUTION

FIGURE



SILT AND CLAY	FINE	MEDIUM	COARSE	FINE	COARSE	COBBLE SIZE
	SAND SIZE			GRAVEL SIZE		

BH / Location	Sample	Depth
BH-23-18	CF-13	8.38m - 8.99m

Project No./Phase/Task: 2257554002-4000-4001

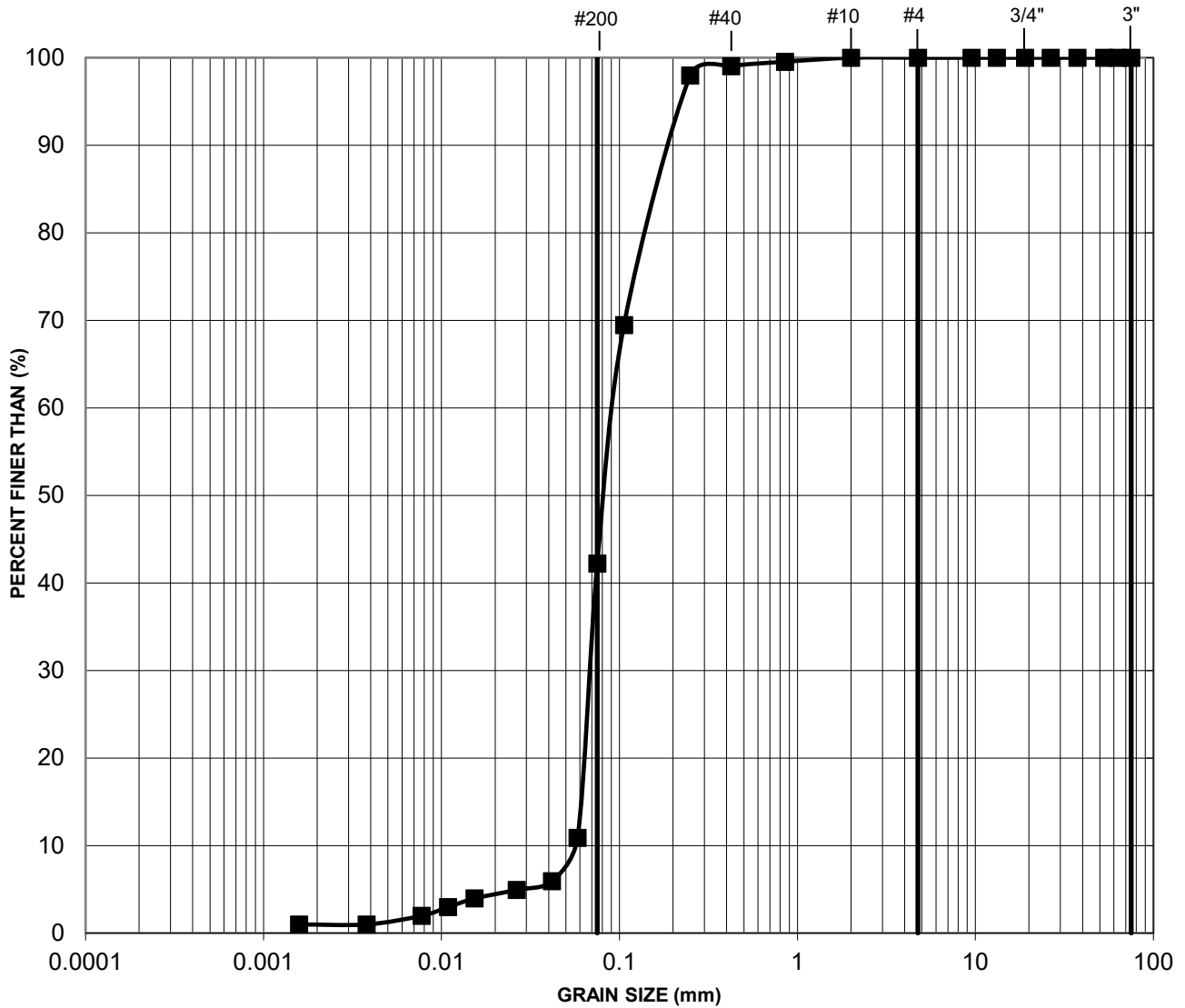
Project Name: Troilus Gold Corporation/Troilus Mine Project

Reviewed by: TG



# GRAIN SIZE DISTRIBUTION

FIGURE



SILT AND CLAY	FINE	MEDIUM	COARSE	FINE	COARSE	COBBLE SIZE
	SAND SIZE			GRAVEL SIZE		

BH / Location	Sample	Depth
BH-23-21	CF-7	4.57m - 5.18m

Project No./Phase/Task: 2257554002-4000-4001

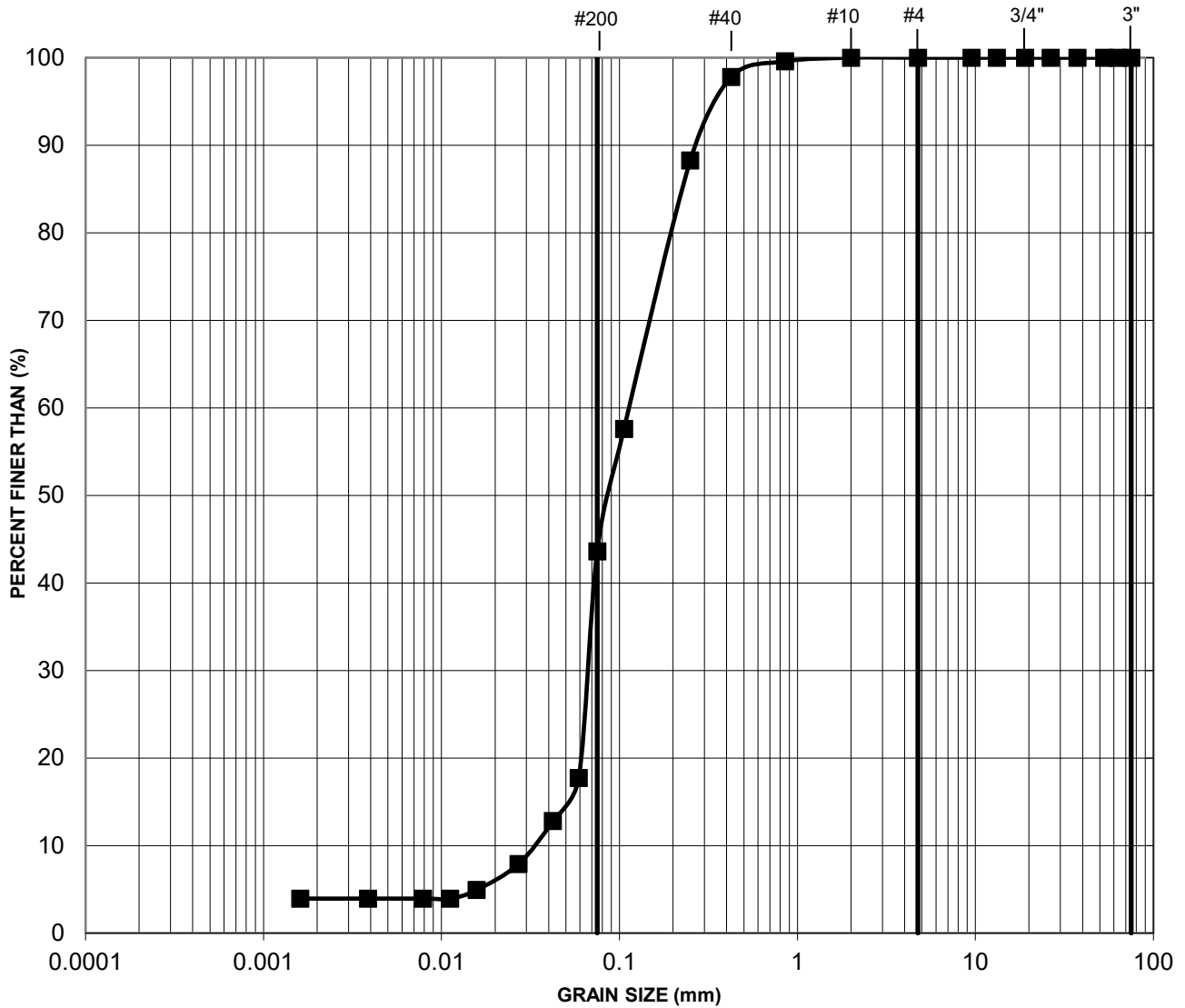
Project Name: Troilus Gold Corporation/Troilus Mine Project

Reviewed by: TG



# GRAIN SIZE DISTRIBUTION

FIGURE



SILT AND CLAY	FINE	MEDIUM	COARSE	FINE	COARSE	COBBLE SIZE
	SAND SIZE			GRAVEL SIZE		

BH / Location	Sample	Depth
BH-23-21	CF-15	10.67m - 11.28m

Project No./Phase/Task: 2257554002-4000-4001

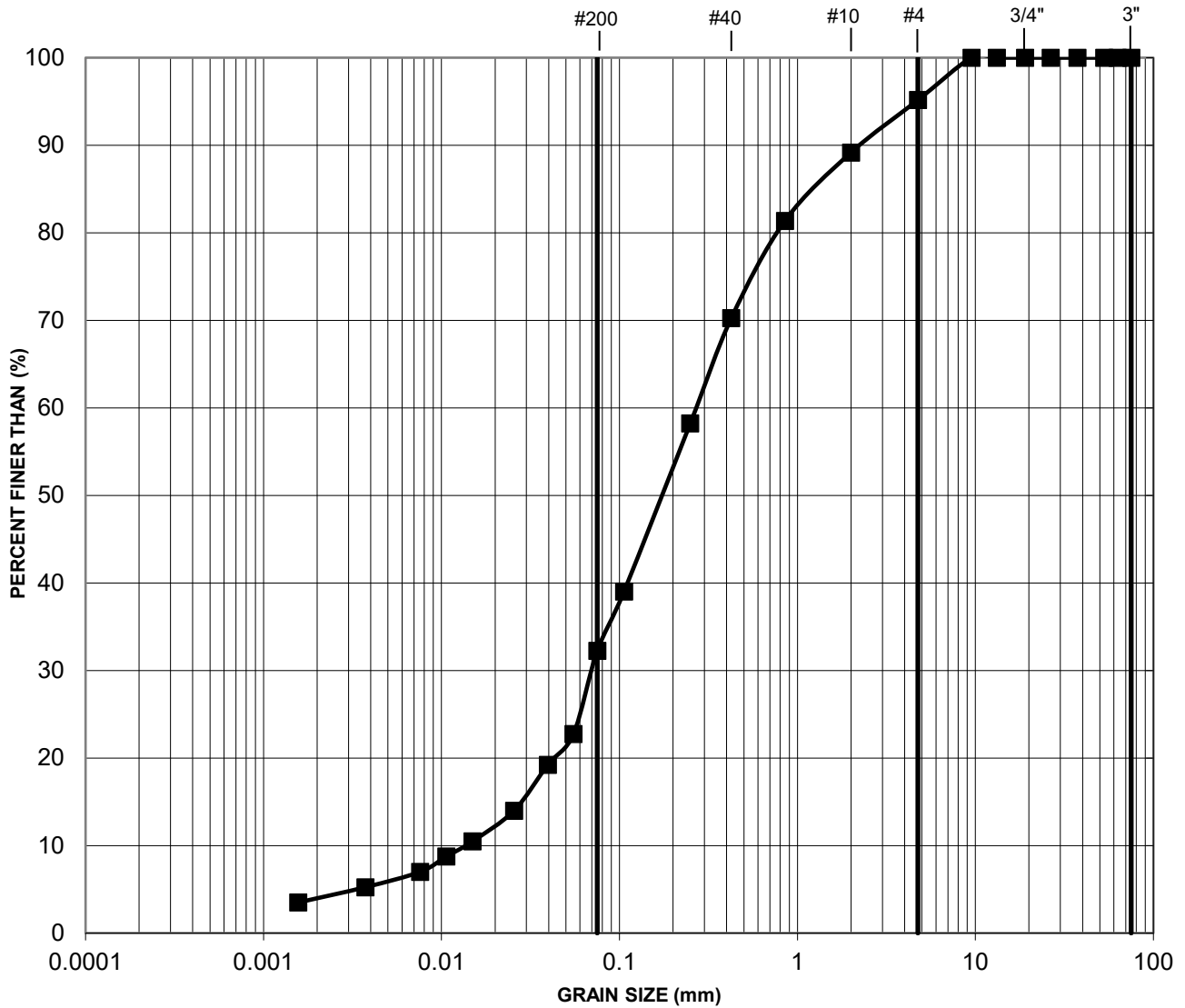
Project Name: Troilus Gold Corporation/Troilus Mine Project

Reviewed by: TG



# GRAIN SIZE DISTRIBUTION

FIGURE



SILT AND CLAY	FINE	MEDIUM	COARSE	FINE	COARSE	COBBLE SIZE
	SAND SIZE			GRAVEL SIZE		

BH / Location	Sample	Depth
BH-23-22	CF-1C	0.45m - 0.61m

Project No./Phase/Task: 2257554002-4000-4001

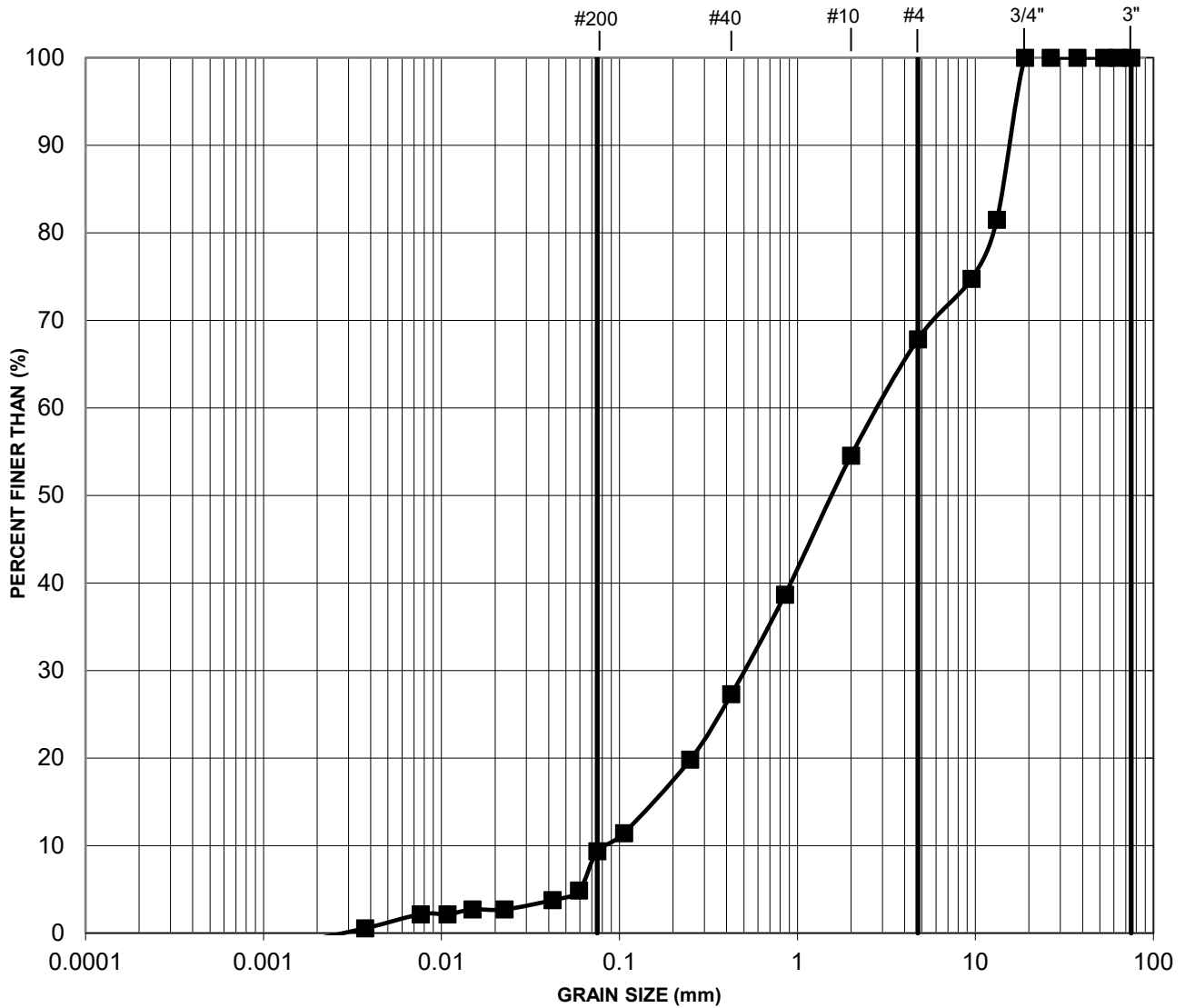
Project Name: Troilus Gold Corporation/Troilus Mine Project

Reviewed by: TG



# GRAIN SIZE DISTRIBUTION

FIGURE



SILT AND CLAY	FINE	MEDIUM	COARSE	FINE	COARSE	COBBLE SIZE
	SAND SIZE			GRAVEL SIZE		

BH / Location	Sample	Depth
BH-23-23	CF-4	2.32m - 2.59m

Project No./Phase/Task: 2257554002-4000-4001

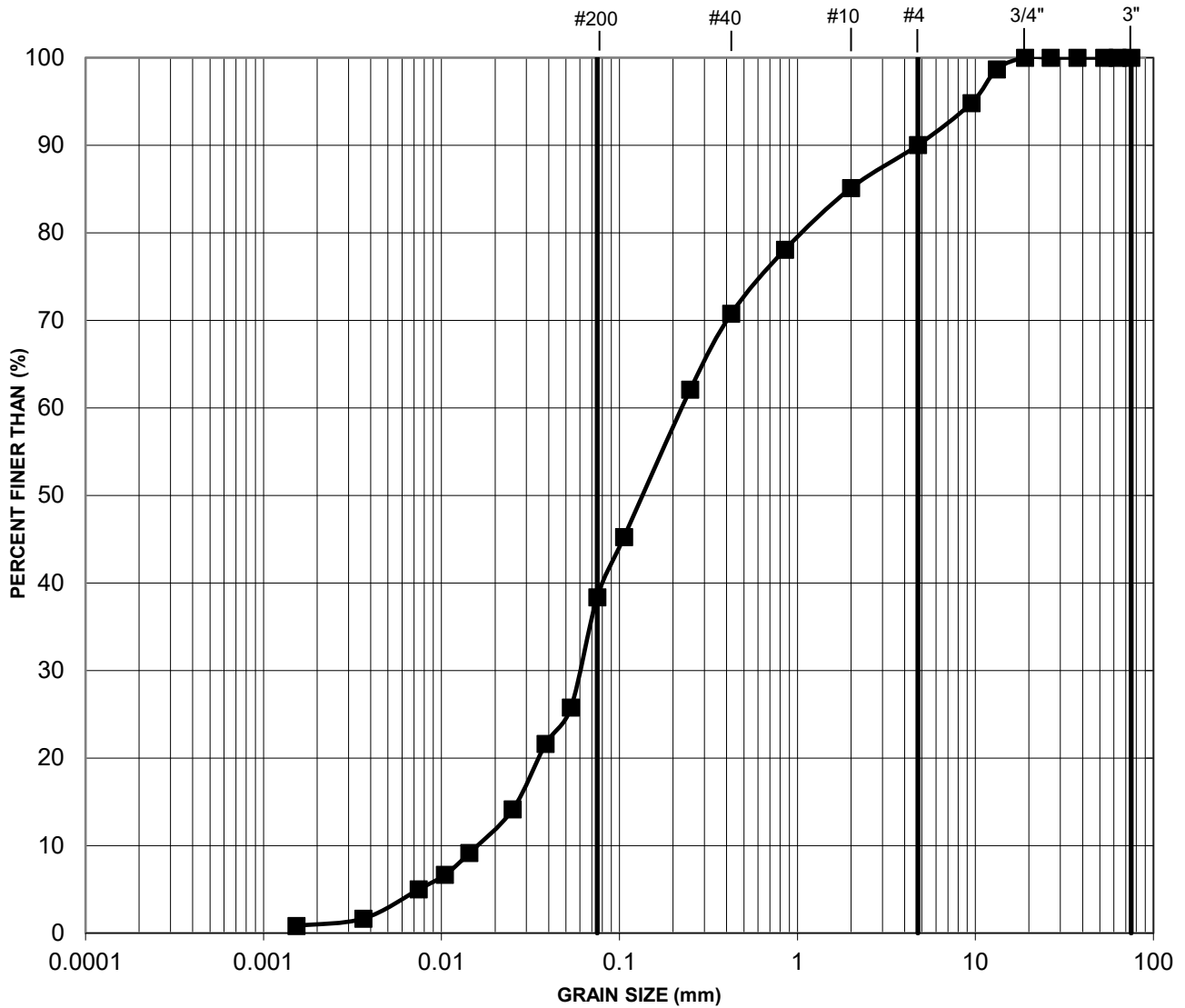
Project Name: Troilus Gold Corporation/Troilus Mine Project

Reviewed by: TG



# GRAIN SIZE DISTRIBUTION

FIGURE



SILT AND CLAY	FINE	MEDIUM	COARSE	FINE	COARSE	COBBLE SIZE
	SAND SIZE			GRAVEL SIZE		

BH / Location	Sample	Depth
BH-23-26	CF-7	4.57m - 5.18m

Project No./Phase/Task: 2257554002-4000-4001

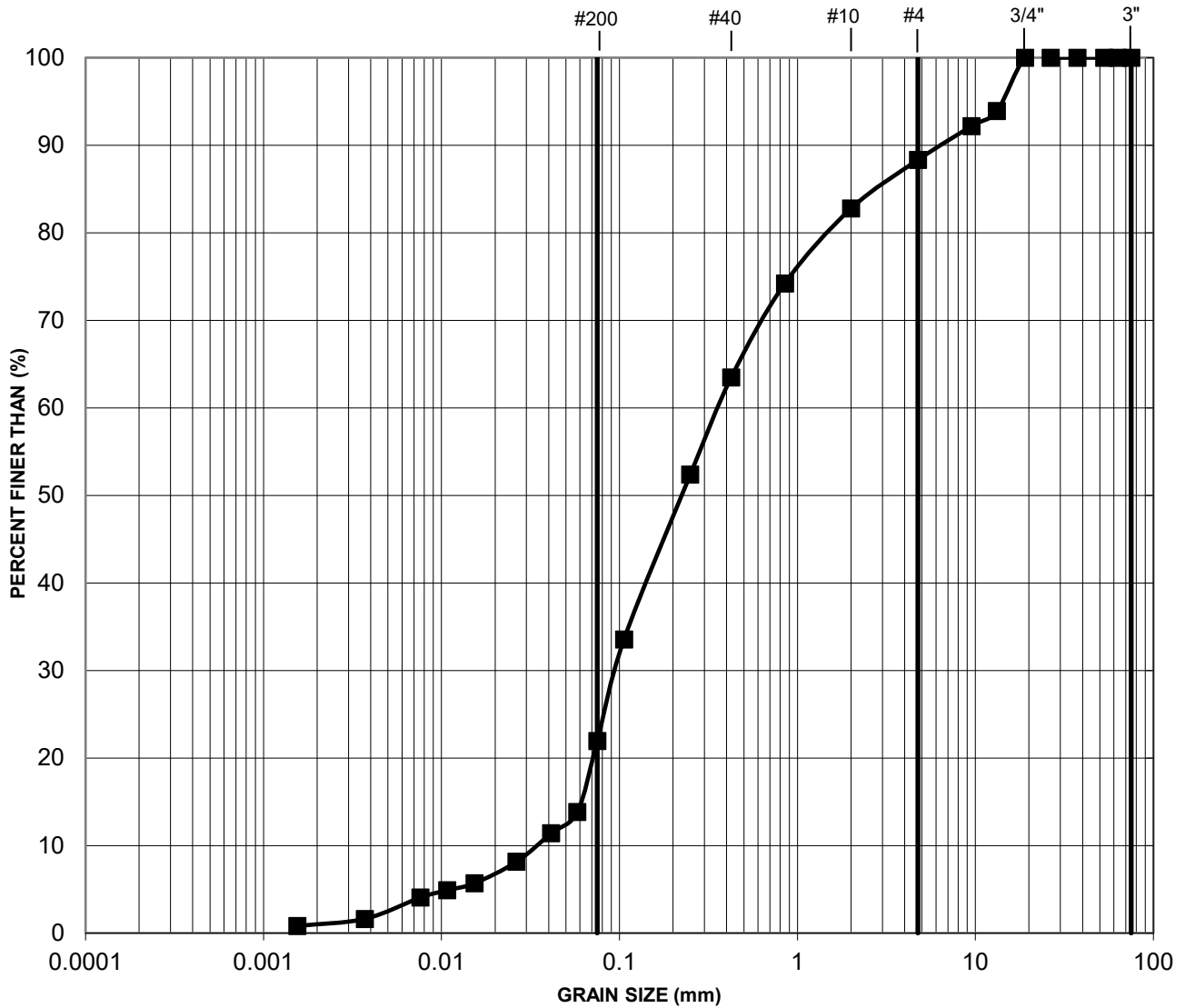
Project Name: Troilus Gold Corporation/Troilus Mine Project

Reviewed by: TG



# GRAIN SIZE DISTRIBUTION

FIGURE



SILT AND CLAY	FINE	MEDIUM	COARSE	FINE	COARSE	COBBLE SIZE
	SAND SIZE			GRAVEL SIZE		

BH / Location	Sample	Depth
BH-23-36	CF-2	0.76m - 1.37m

Project No./Phase/Task: 2257554002-4000-4001

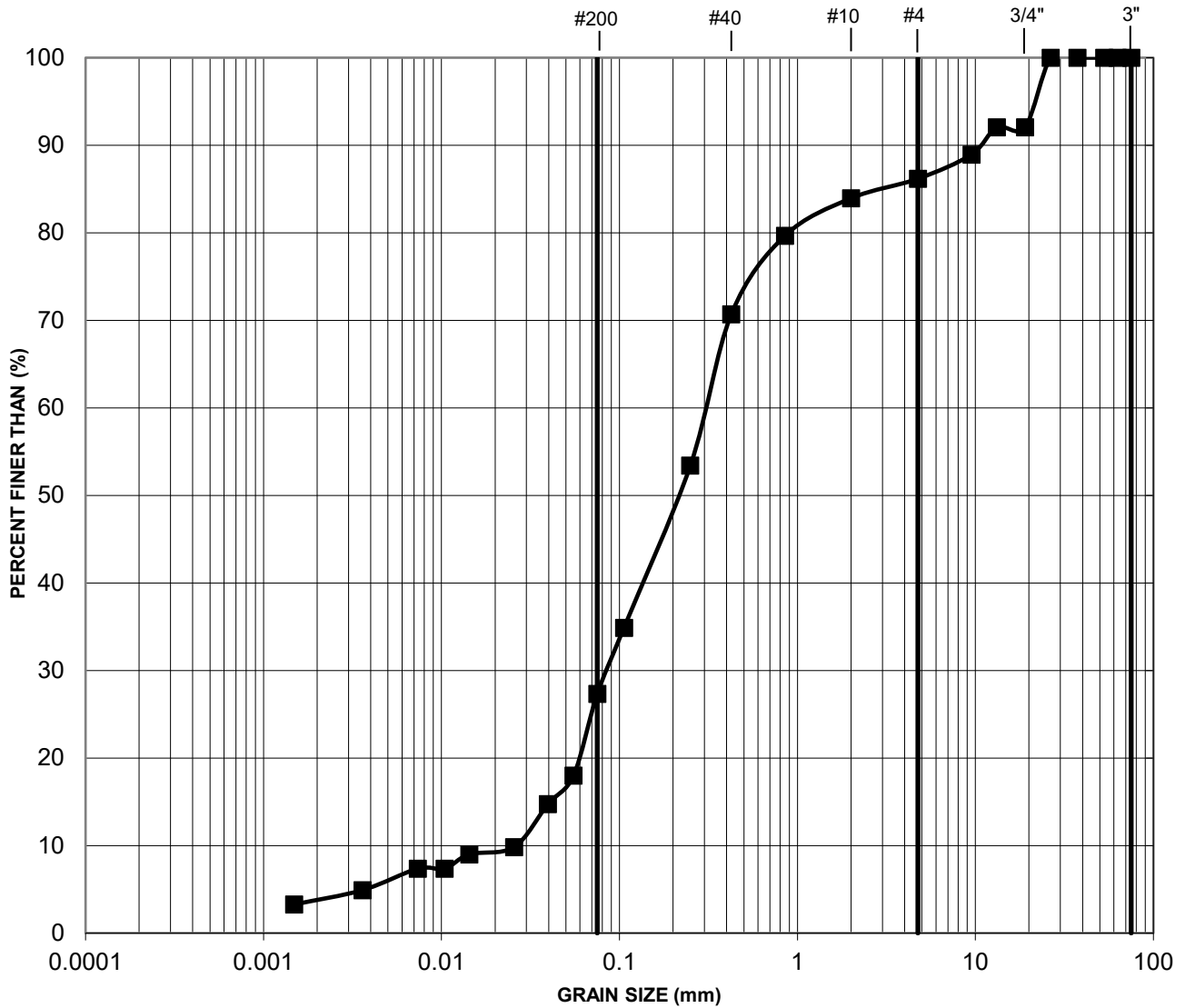
Project Name: Troilus Gold Corporation/Troilus Mine Project

Reviewed by: TG



# GRAIN SIZE DISTRIBUTION

FIGURE



SILT AND CLAY	FINE	MEDIUM	COARSE	FINE	COARSE	COBBLE SIZE
	SAND SIZE			GRAVEL SIZE		

BH / Location	Sample	Depth
BH-23-45	CF-2	0.76m - 1.37m

Project No./Phase/Task: 2257554002-4000-4001

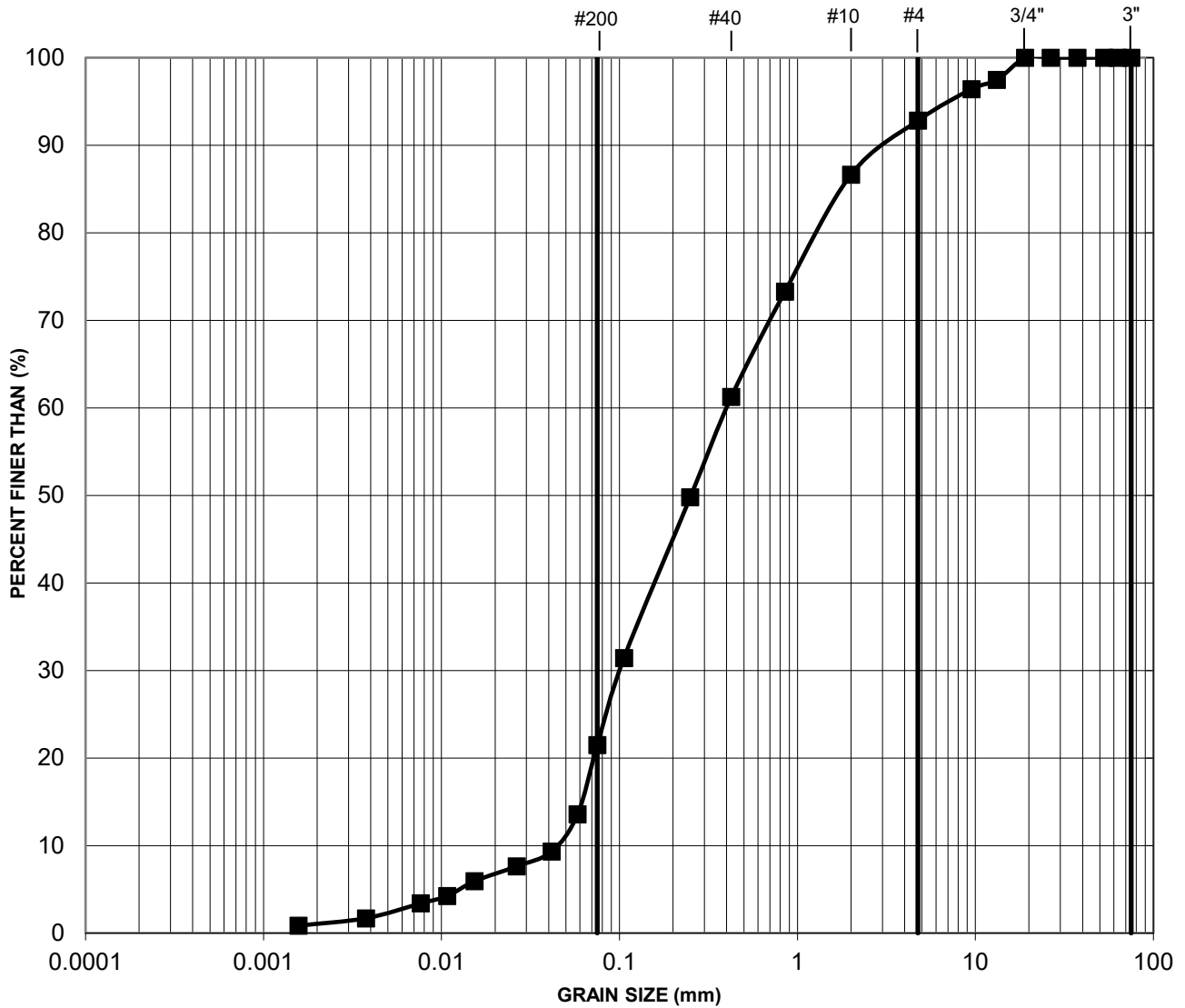
Project Name: Troilus Gold Corporation/Troilus Mine Project

Reviewed by: TG



# GRAIN SIZE DISTRIBUTION

FIGURE



SILT AND CLAY	FINE	MEDIUM	COARSE	FINE	COARSE	COBBLE SIZE
	SAND SIZE			GRAVEL SIZE		

BH / Location	Sample	Depth
BH-23-47	CF-7	4.57m - 5.18m

Project No./Phase/Task: 2257554002-4000-4001

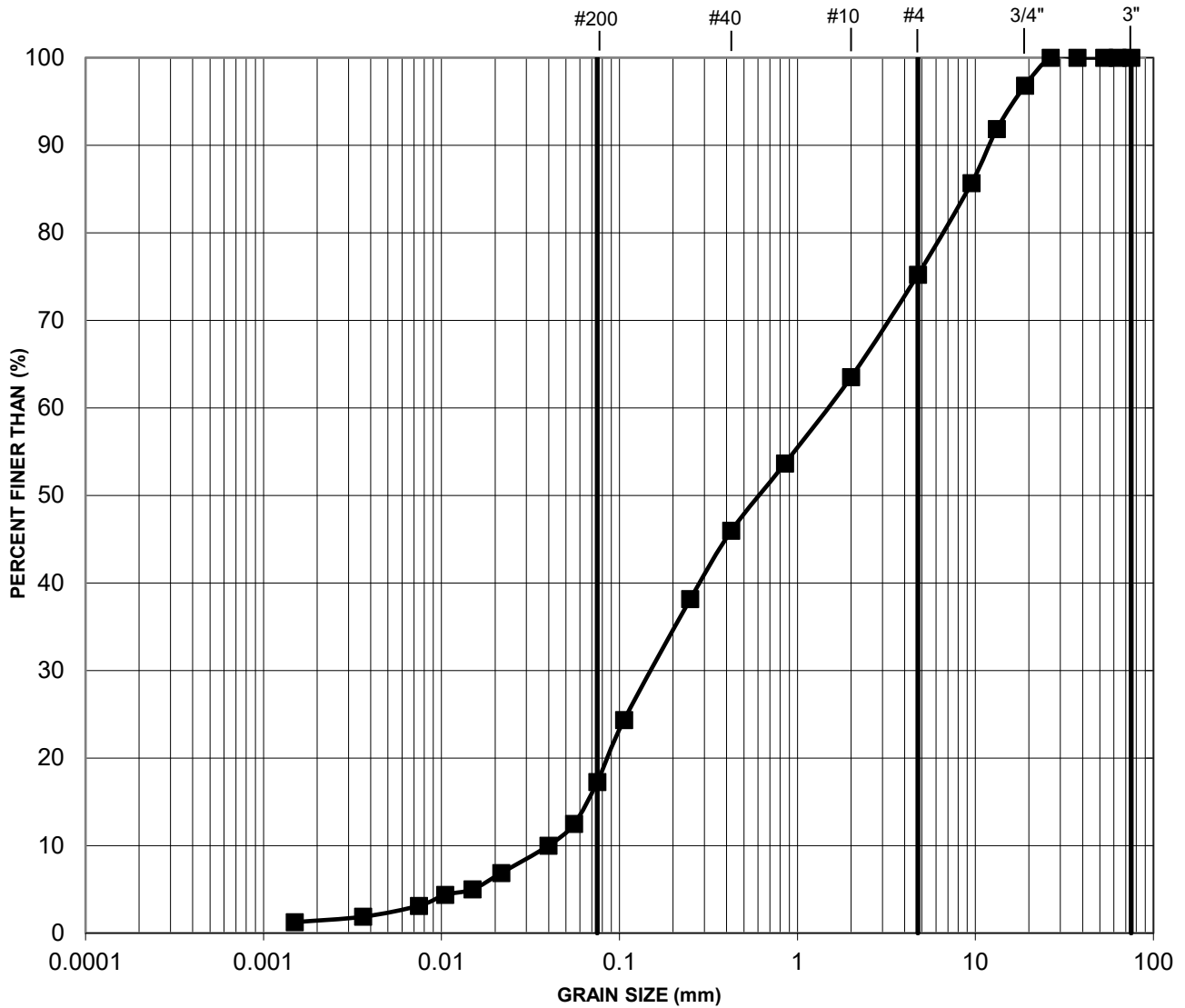
Project Name: Troilus Gold Corporation/Troilus Mine Project

Reviewed by: TG



# GRAIN SIZE DISTRIBUTION

FIGURE



SILT AND CLAY	FINE	MEDIUM	COARSE	FINE	COARSE	COBBLE SIZE
	SAND SIZE			GRAVEL SIZE		

BH / Location	Sample	Depth
BH-23-48	CF-6	3.96m - 4.57m

Project No./Phase/Task: 2257554002-4000-4001

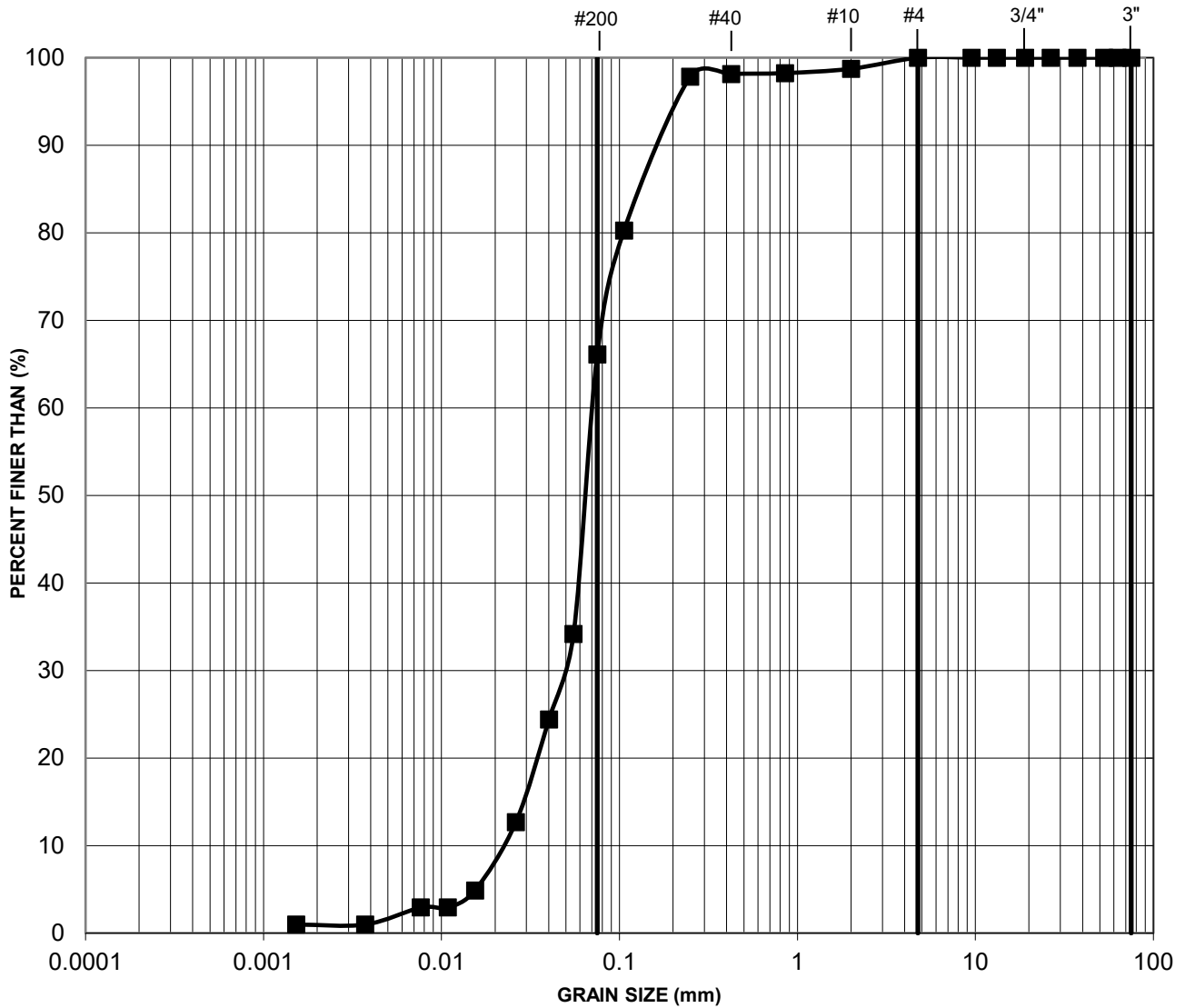
Project Name: Troilus Gold Corporation/Troilus Mine Project

Reviewed by: TG



# GRAIN SIZE DISTRIBUTION

FIGURE



SILT AND CLAY	FINE	MEDIUM	COARSE	FINE	COARSE	COBBLE SIZE
	SAND SIZE			GRAVEL SIZE		

BH / Location	Sample	Depth
BH-23-51	CF-5	3.05m - 3.66m

Project No./Phase/Task: 2257554002-4000-4001

Project Name: Troilus Gold Corporation/Troilus Mine Project

Reviewed by: TG



**Liquid Limit, Plastic Limit and Plasticity Index of Soils  
ASTM D4318**

**Project No./Phase/Task:** 2257554002-4000-4001

**Project Name:** Troilus Gold Corporation/Troilus Mine Project

**Test Date:** 08-Jun-23

**Technician:** tg

**Lab Number:** G1245

**Borehole:** BH-23-51

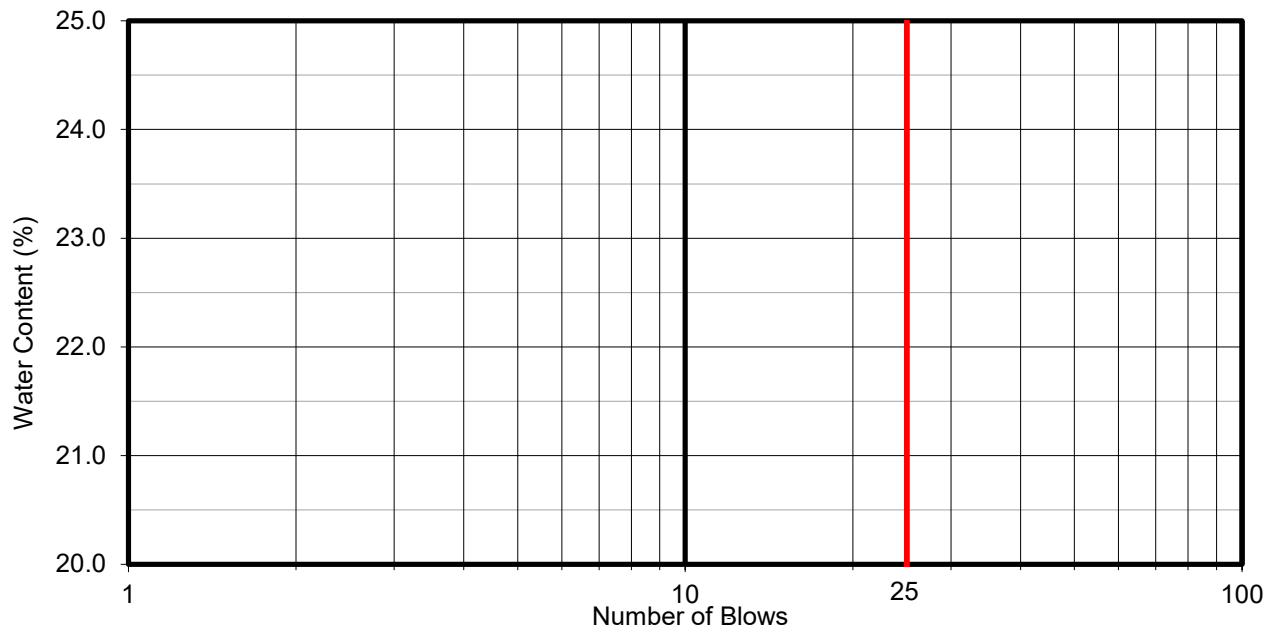
**Sample Number:** CF-5

**Depth of Sample:** 3.05m - 3.66m

**PLASTIC/NON-PLASTIC:** Non-Plastic

TYPE OF TEST	LL					W <sub>n</sub>	PL		
CONTAINER NUMBER						X			
NUMBER OF BLOWS						X	X	X	X
MASS WET SOIL + TARE (g)						523.95			
MASS DRY SOIL + TARE (g)						469.65			
MASS OF WATER (g)						54.30			
MASS OF CONTAINER (g)						239.86			
MASS OF DRY SOIL (g)						229.79			
WATER CONTENT W (%)						23.6			

<b>LIQUID LIMIT (%)</b>	NP
<b>PLASTIC LIMIT (%)</b>	NP
<b>PLASTICITY INDEX (%)</b>	NP
<b>W NATURAL (%)</b>	NP
<b>LIQUIDITY INDEX</b>	NP



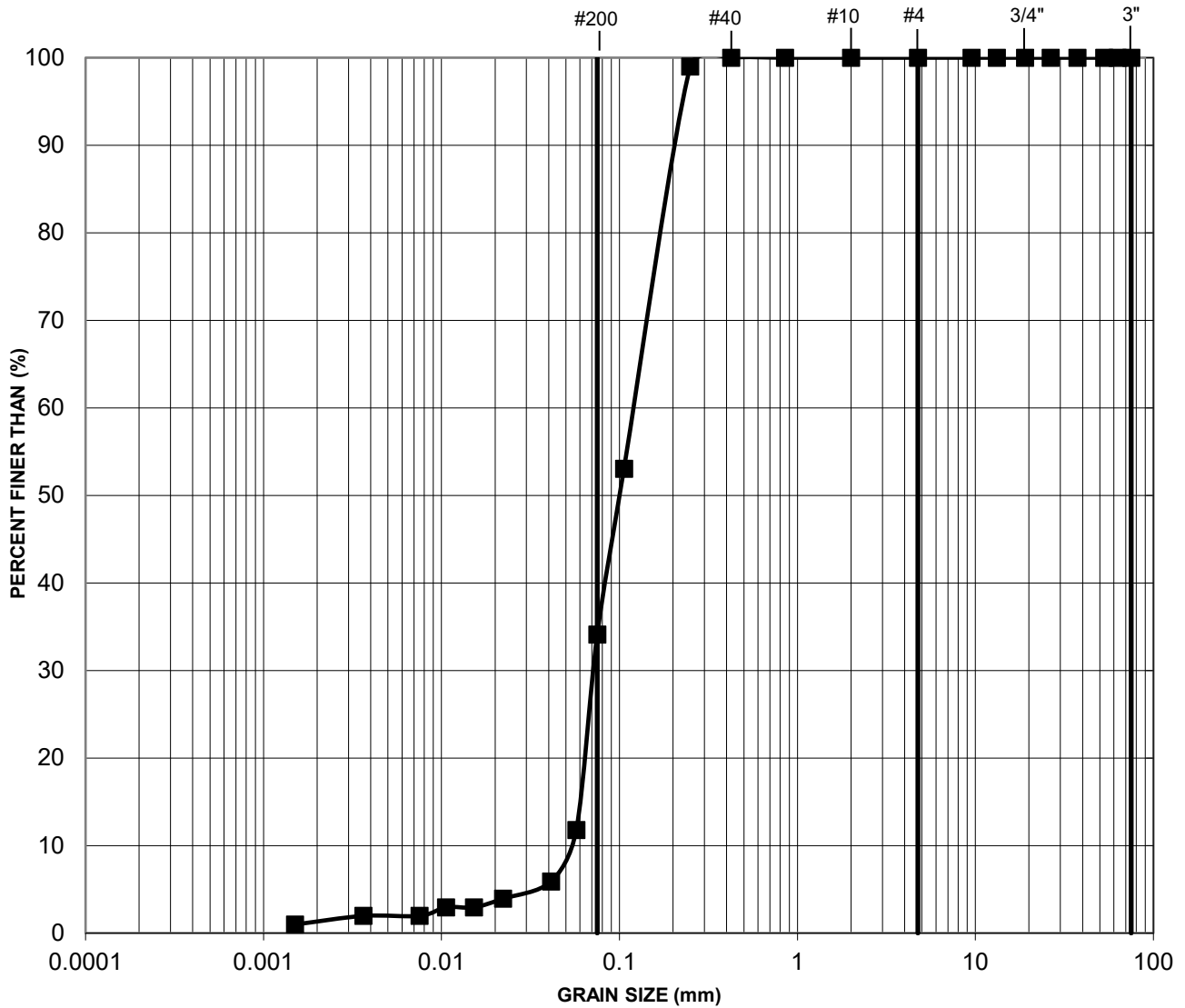
**SAMPLE DESCRIPTION:**

Reviewed by: TG \_\_\_\_\_



# GRAIN SIZE DISTRIBUTION

FIGURE



SILT AND CLAY	FINE	MEDIUM	COARSE	FINE	COARSE	COBBLE SIZE
	SAND SIZE			GRAVEL SIZE		

BH / Location	Sample	Depth
MW-23-25	CF-6	3.81m - 4.42m

Project No./Phase/Task: 2257554002-4000-4001

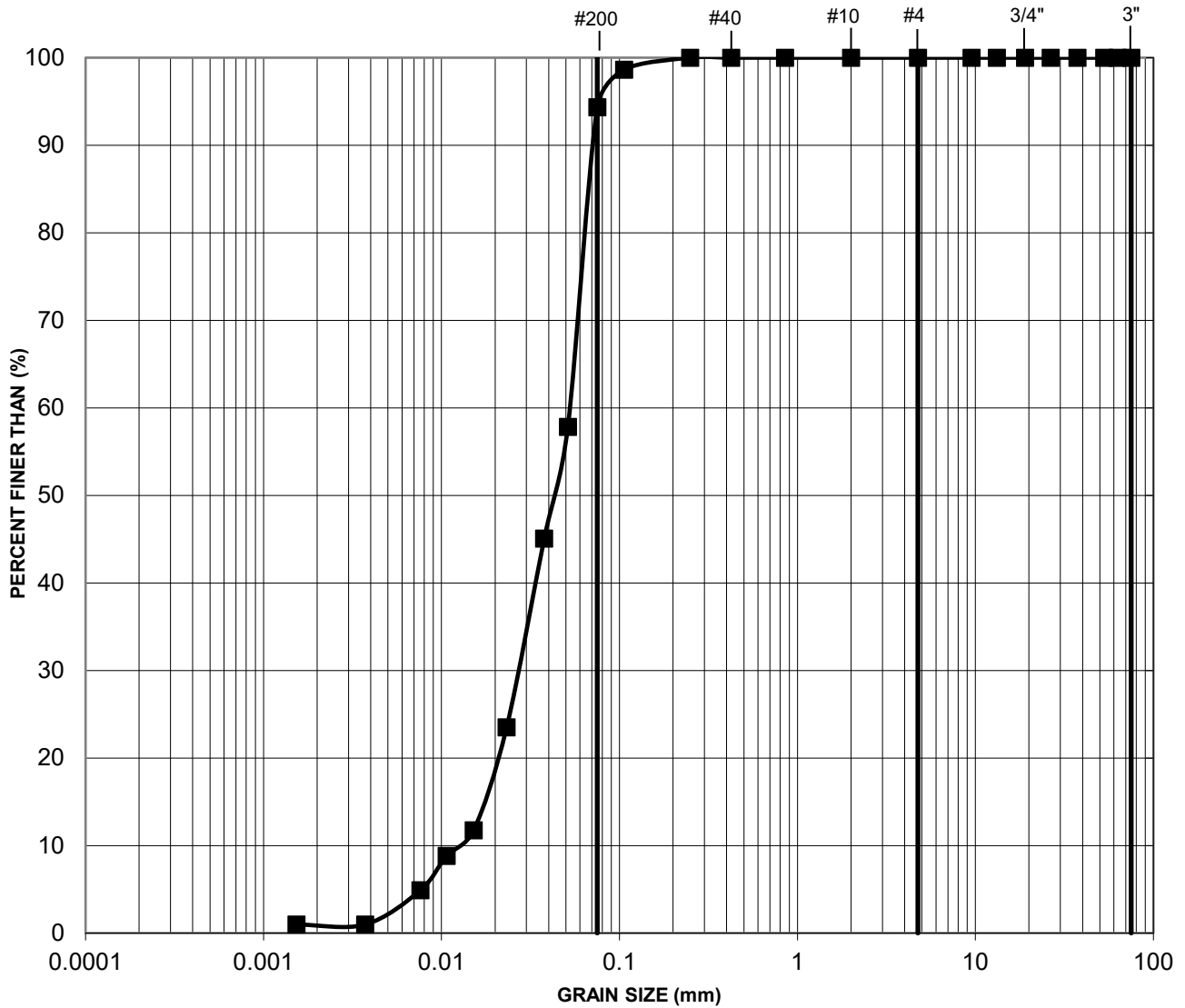
Project Name: Troilus Gold Corporation/Troilus Mine Project

Reviewed by: TG



# GRAIN SIZE DISTRIBUTION

FIGURE



SILT AND CLAY	FINE	MEDIUM	COARSE	FINE	COARSE	COBBLE SIZE
	SAND SIZE			GRAVEL SIZE		

BH / Location	Sample	Depth
MW-23-25	CF-9	6.1m - 6.71m

Project No./Phase/Task: 2257554002-4000-4001

Project Name: Troilus Gold Corporation/Troilus Mine Project

Reviewed by: TG



**Liquid Limit, Plastic Limit and Plasticity Index of Soils  
ASTM D4318**

**Project No./Phase/Task:** 2257554002-4000-4001

**Project Name:** Troilus Gold Corporation/Troilus Mine Project

**Test Date:** 08-Jun-23

**Technician:** tg

**Lab Number:** G1247

**Borehole:** MW-23-25

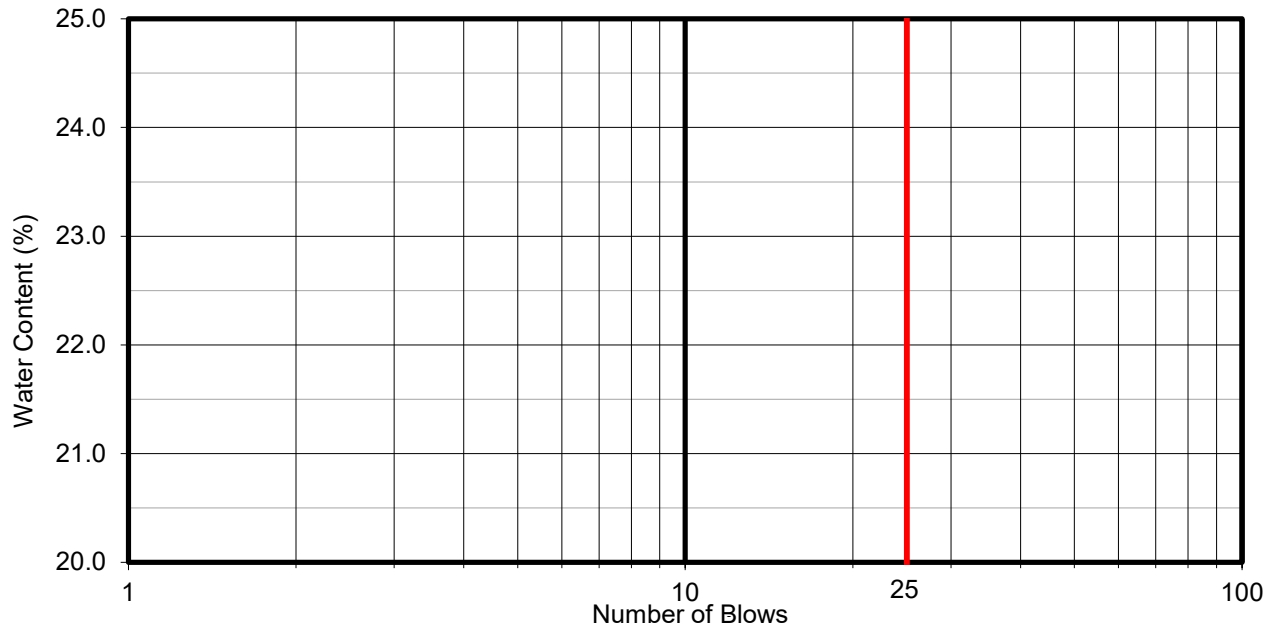
**Sample Number:** CF-9

**Depth of Sample:** 6.1m - 6.71m

**PLASTIC/NON-PLASTIC:** Non-Plastic

TYPE OF TEST	LL					W <sub>n</sub>	PL		
CONTAINER NUMBER						X			
NUMBER OF BLOWS						X	X	X	X
MASS WET SOIL + TARE (g)						532.75			
MASS DRY SOIL + TARE (g)						476.66			
MASS OF WATER (g)						56.09			
MASS OF CONTAINER (g)						241.13			
MASS OF DRY SOIL (g)						235.53			
WATER CONTENT W (%)						23.8			

<b>LIQUID LIMIT (%)</b>	NP
<b>PLASTIC LIMIT (%)</b>	NP
<b>PLASTICITY INDEX (%)</b>	NP
<b>W NATURAL (%)</b>	NP
<b>LIQUIDITY INDEX</b>	NP



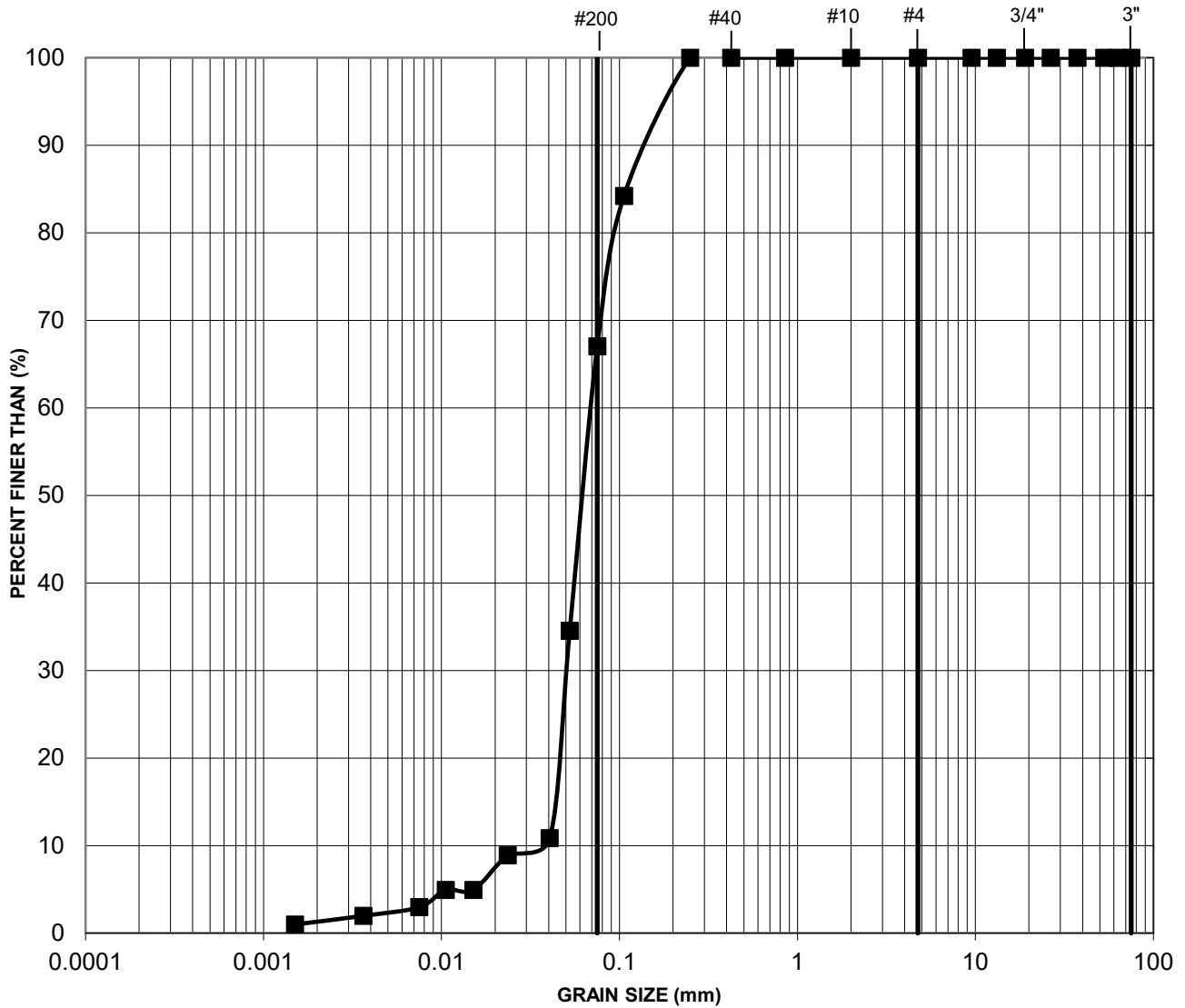
**SAMPLE DESCRIPTION:**

Reviewed by: TG \_\_\_\_\_



# GRAIN SIZE DISTRIBUTION

FIGURE



SILT AND CLAY	FINE	MEDIUM	COARSE	FINE	COARSE	COBBLE SIZE
	SAND SIZE			GRAVEL SIZE		

BH / Location	Sample	Depth
MW-23-25	CF-12	8.38m - 8.99m

Project No./Phase/Task: 2257554002-4000-4001

Project Name: Troilus Gold Corporation/Troilus Mine Project

Reviewed by: TG





**SPECIFIC GRAVITY  
OF SOILS  
(MTO LS-705 Rev.36)**

Specimen Number	1	2	3
Pycnometer Number	7	16	36
$m_f$ ) Mass of Pycnometer (g)	32.86	33.50	33.56
$m_s$ ) Mass of Dry Soil + Pycnometer (g)	52.88	53.51	53.70
$m_o$ ) Mass of Dry Soil (g) = $m_s - m_f$	20.02	20.01	20.14
$m_a$ ) Mass of Water + Pycnometer (g)	82.69	83.30	83.37
$m_b$ ) Mass of Water + Soil + Pycnometer (g)	95.26	95.87	95.98
$T_x$ ) Test Temperature (0.5 °C)	18.5	18.5	18.5
G) Specific Gravity = $m_o / (m_o + m_a - m_b)$	2.687	2.690	2.675
K) Correction Factor	1.00030	1.00030	1.00030
$G_s$ ) Specific Gravity at 20°C = $K \times G$	2.688	2.691	2.676
$G_{avg}$ ) Average Specific Gravity at 20 °C	2.685		

Validation Test Data: Control Aggregate (MTO Stock)	
Test Date	Specific Gravity at 20 °C (2.677 to 2.765)
June 13, 2023	2.720

**Sample Information**

Project Number 2257554002-4000-4001

Lab Number G1247

Tested By HAB

Input by: JM

Borehole: MW-23-25

Sample #: CF-9

Depth (m) 6.1-6.71

Date Reported June 28, 2023

Checked By TG



# GRAIN SIZE ANALYSIS

Sounding N°

BH-23-19

Project name: **Troilus Feasibility Study**

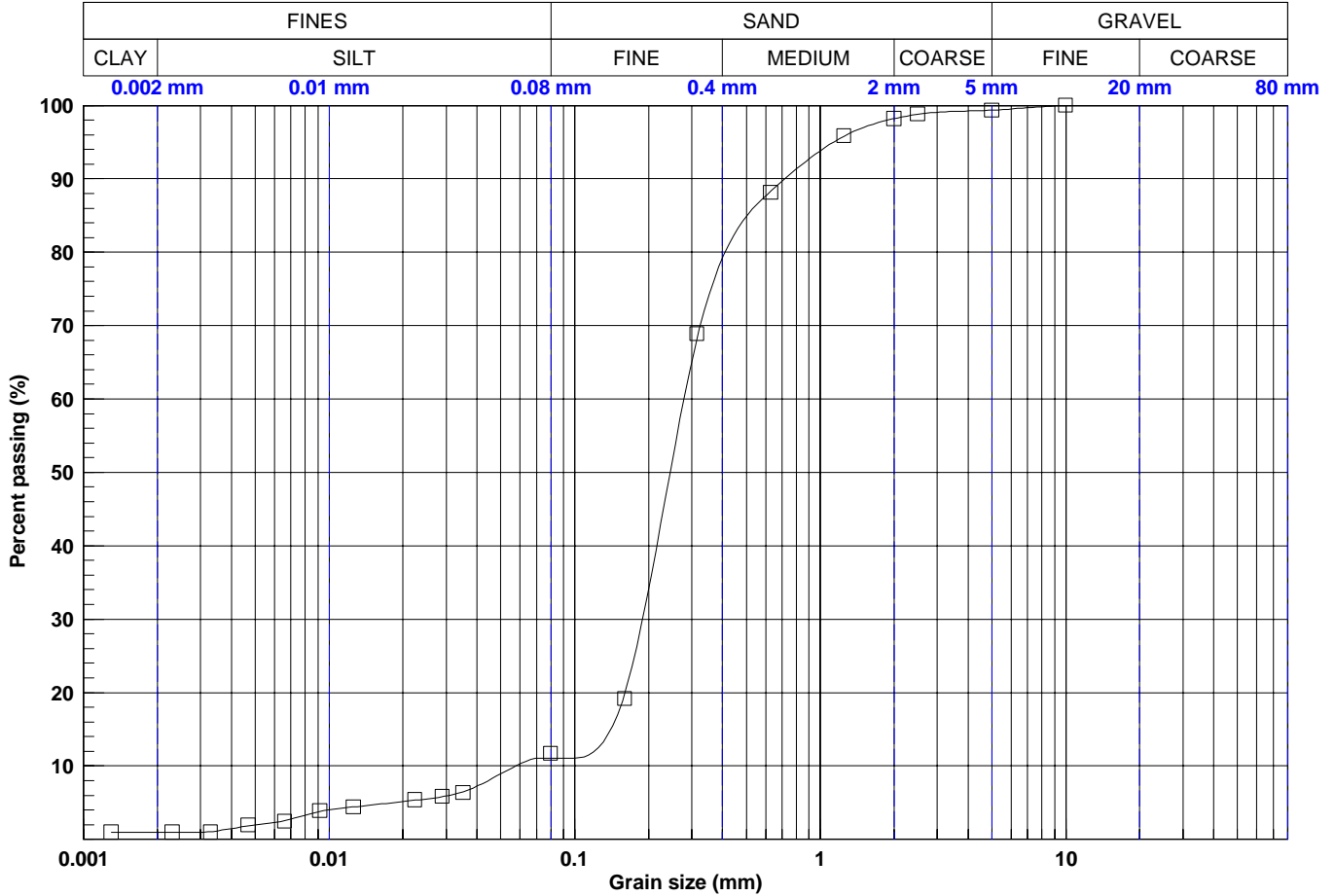
Project N°: **2257554002**

Client: **TROILUS GOLD CORPORATION**

Location plan N°: **-**

Location: **Troilus Mine, North of Chibougamau, Québec**

Date (start): **2023-07-23**



Legend	CLAY	SILT	SAND	GRAVEL
○	-	-	-	-
□	0.9	10.2	88.3	0.6

Legend	0.002 mm	0.08 mm	0.16 mm	0.315 mm	0.63 mm	1.25 mm	2.5 mm	5 mm	10 mm	14 mm	20 mm	28 mm	40 mm	56 mm	80 mm
○	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
□	0.92	11.09	19.94	68.17	88.34	95.81	98.79	99.36	99.98	100.00	100.00	100.00	100.00	100.00	100.00

Legend	Sounding	Sample	Depth (m)	Description	D10	D30	D60	Cu	Cc	USCS	w
○	BH-23-19	2	1.22 - 1.83	-	-	-	-	-	-	-	28
□	BH-23-19	4	3.05 - 3.66	Sand, some silt.	0.058	0.189	0.279	-	-	-	20

Prepared by: **Timothy Lewyckj, Tech.**

Date: **2023-12-20**

Checked by: **Eric Cardinal, Tech. Sr.**

Date: **2024-01-09**

Production date: **2024-03-21**

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# GRAIN SIZE ANALYSIS

Sounding N°

BH-23-20

Project name: **Troilus Feasibility Study**

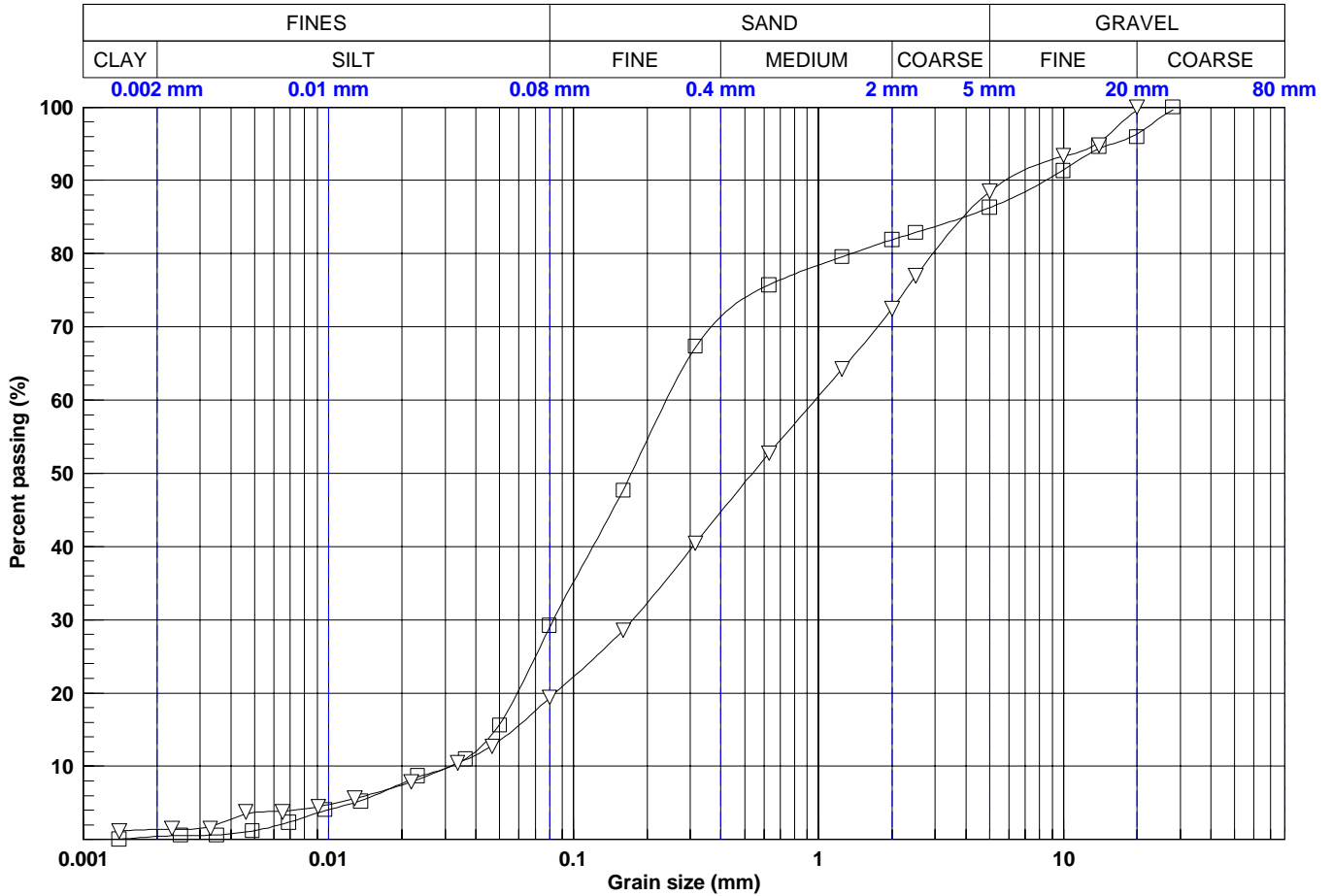
Project N°: **2257554002**

Client: **TROILUS GOLD CORPORATION**

Location plan N°: -

Location: **Troilus Mine, North of Chibougamau, Québec**

Date (start): **2023-07-22**



Legend	CLAY	SILT	SAND	GRAVEL
○	-	-	-	-
□	0.4	28.6	57.3	13.7
▽	1.4	18.0	69.1	11.5

Legend	0.002 mm	0.08 mm	0.16 mm	0.315 mm	0.63 mm	1.25 mm	2.5 mm	5 mm	10 mm	14 mm	20 mm	28 mm	40 mm	56 mm	80 mm
○	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
□	0.41	28.98	47.78	67.18	75.76	79.58	82.88	86.28	91.42	94.33	96.33	99.62	100.00	100.00	100.00
▽	1.38	19.33	28.62	40.42	52.73	64.21	76.95	88.46	93.28	95.21	99.54	100.00	100.00	100.00	100.00

Legend	Sounding	Sample	Depth (m)	Description	D10	D30	D60	Cu	Cc	USCS	w
○	BH-23-20	1	0.00 - 0.61	-	-	-	-	-	-	-	9
□	BH-23-20	6	3.05 - 3.66	Silty sand, some gravel.	0.032	0.083	0.239	-	-	-	11
▽	BH-23-20	9	6.72 - 7.33	Sand, some silt and gravel, trace clay.	0.032	0.175	0.971	-	-	-	11

Prepared by: **Timothy Lewyckj, Tech.**

Date: **2023-12-20**

Checked by: **Eric Cardinal, Tech. Sr.**

Date: **2024-01-09**

Production date: **2024-03-21**

Consultant:



Client:



# GRAIN SIZE ANALYSIS

Sounding N°

BH-23-38

Project name: **Troilus Feasibility Study**

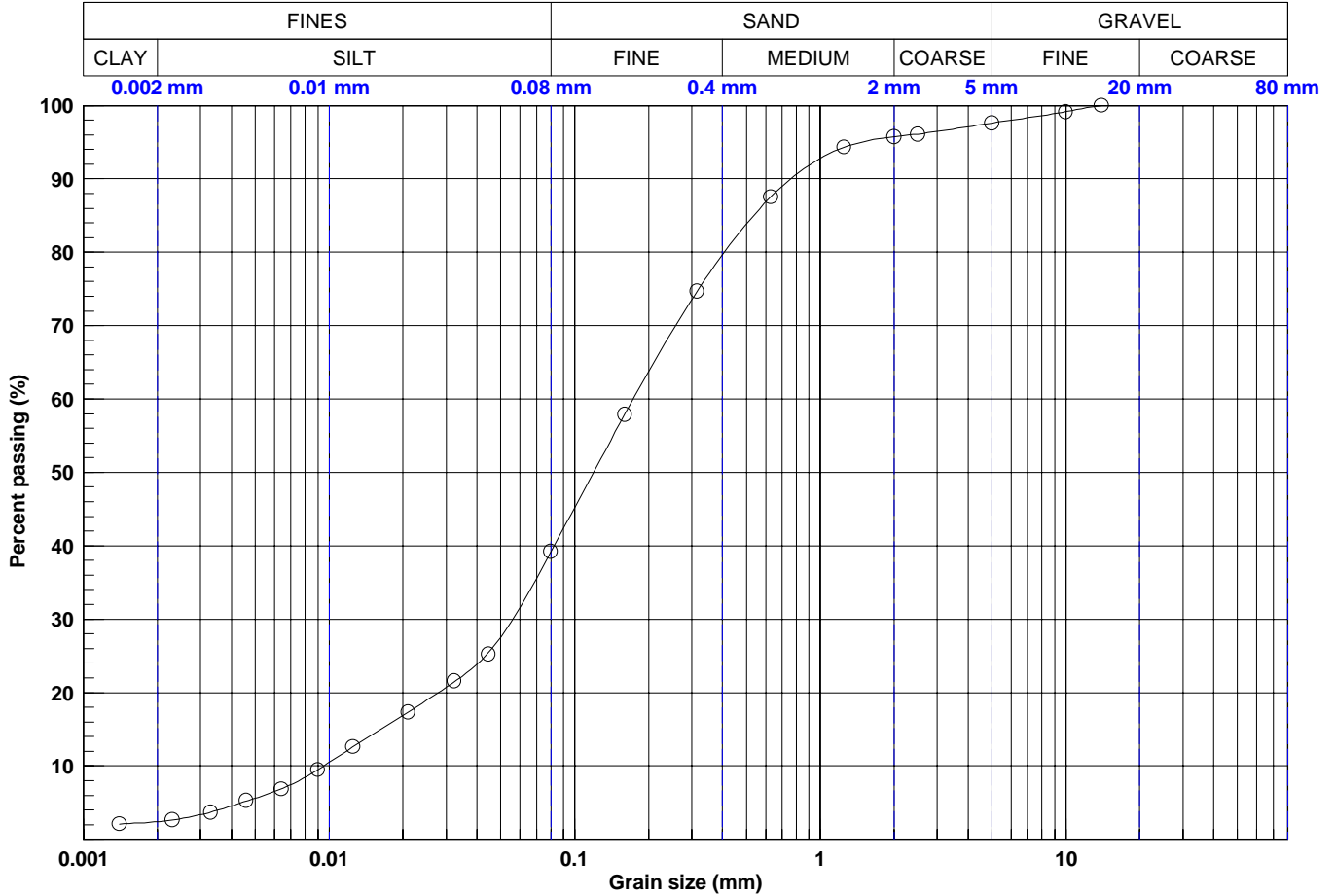
Project N°: **2257554002**

Client: **TROILUS GOLD CORPORATION**

Location plan N°: -

Location: **Troilus Mine, North of Chibougamau, Québec**

Date (start): **2023-07-27**



Legend	CLAY	SILT	SAND	GRAVEL
○	2.4	36.7	58.4	2.4

Legend	0.002 mm	0.08 mm	0.16 mm	0.315 mm	0.63 mm	1.25 mm	2.5 mm	5 mm	10 mm	14 mm	20 mm	28 mm	40 mm	56 mm	80 mm
○	2.41	39.16	57.87	74.66	87.52	94.30	96.10	97.60	99.15	99.93	100.00	100.00	100.00	100.00	100.00

Legend	Sounding	Sample	Depth (m)	Description	D10	D30	D60	Cu	Cc	USCS	w
○	BH-23-38	4	10.69 - 11.30	Sand and silt, trace clay and gravel.	0.009	0.056	0.173	-	-	-	-

Prepared by: **Timothy Lewyckj, Tech.**

Date: **2024-01-08**

Checked by: **Eric Cardinal, Tech. Sr.**

Date: **2024-01-15**

Production date: **2024-03-21**

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# GRAIN SIZE ANALYSIS

Sounding N°

BH-23-39

Project name: **Troilus Feasibility Study**

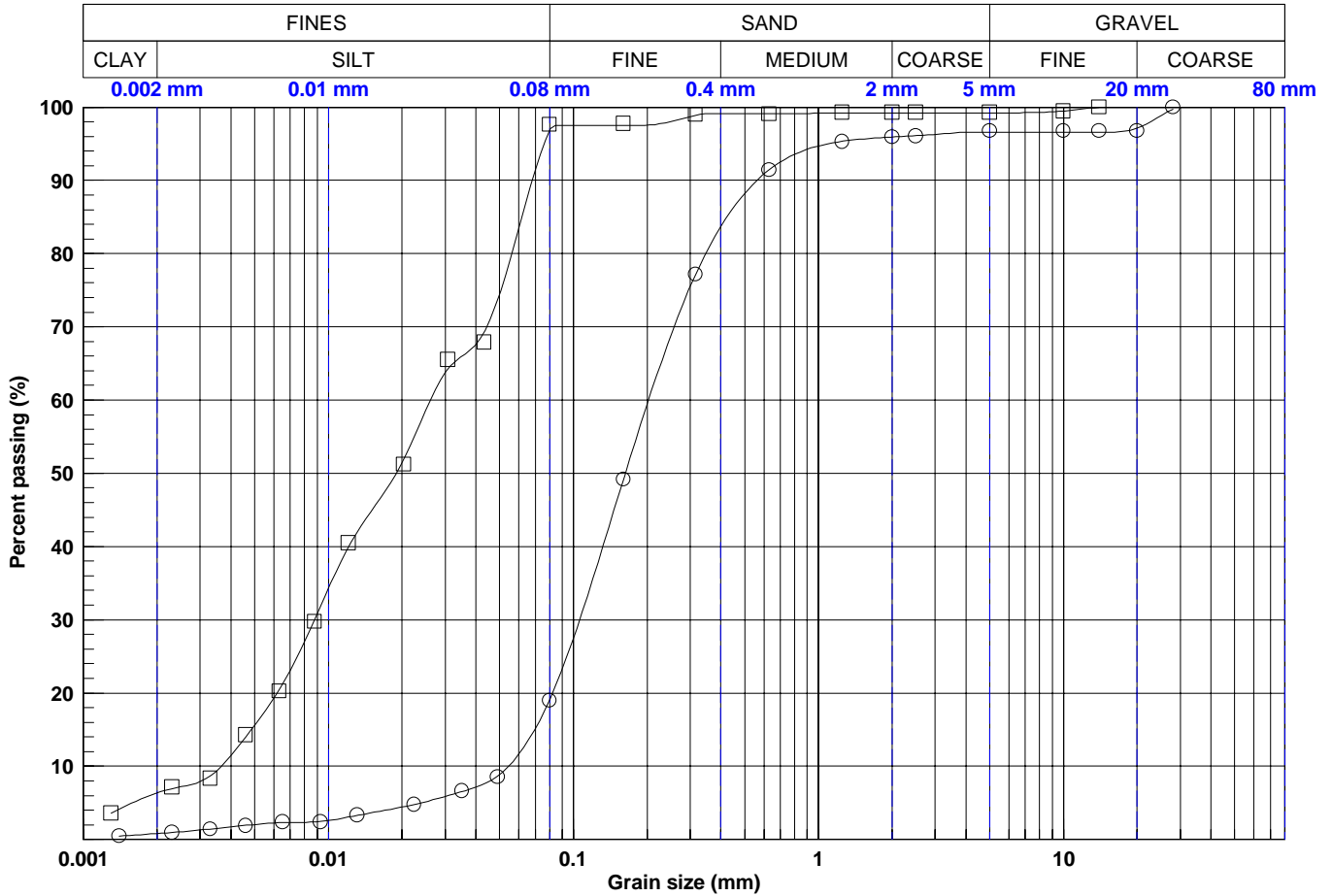
Project N°: **2257554002**

Client: **TROILUS GOLD CORPORATION**

Location plan N°: -

Location: **Troilus Mine, North of Chibougamau, Québec**

Date (start): **2023-07-26**



Legend	CLAY	SILT	SAND	GRAVEL
○	0.8	18.3	77.5	3.4
□	6.4	90.5	2.4	0.8

Legend	0.002 mm	0.08 mm	0.16 mm	0.315 mm	0.63 mm	1.25 mm	2.5 mm	5 mm	10 mm	14 mm	20 mm	28 mm	40 mm	56 mm	80 mm
○	0.80	19.09	49.16	77.10	91.43	95.32	96.10	96.60	96.60	96.60	97.13	99.67	100.00	100.00	100.00
□	6.35	96.83	97.51	98.88	99.08	99.24	99.24	99.24	99.47	99.95	100.00	100.00	100.00	100.00	100.00

Legend	Sounding	Sample	Depth (m)	Description	D10	D30	D60	Cu	Cc	USCS	w
○	BH-23-39	1	8.45 - 9.06	Sand, some silt, trace gravel.	0.054	0.106	0.203	-	-	-	25
□	BH-23-39	6	16.10 - 16.71	Silt, some clay, trace sand.	0.004	0.009	0.026	-	-	-	19

Prepared by: **Timothy Lewyckj, Tech.**

Date: **2024-01-08**

Checked by: **Eric Cardinal, Tech. Sr.**

Date: **2024-01-16**

Production date: **2024-03-21**

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# GRAIN SIZE ANALYSIS

Sounding N°

BH-23-40

Project name: **Troilus Feasibility Study**

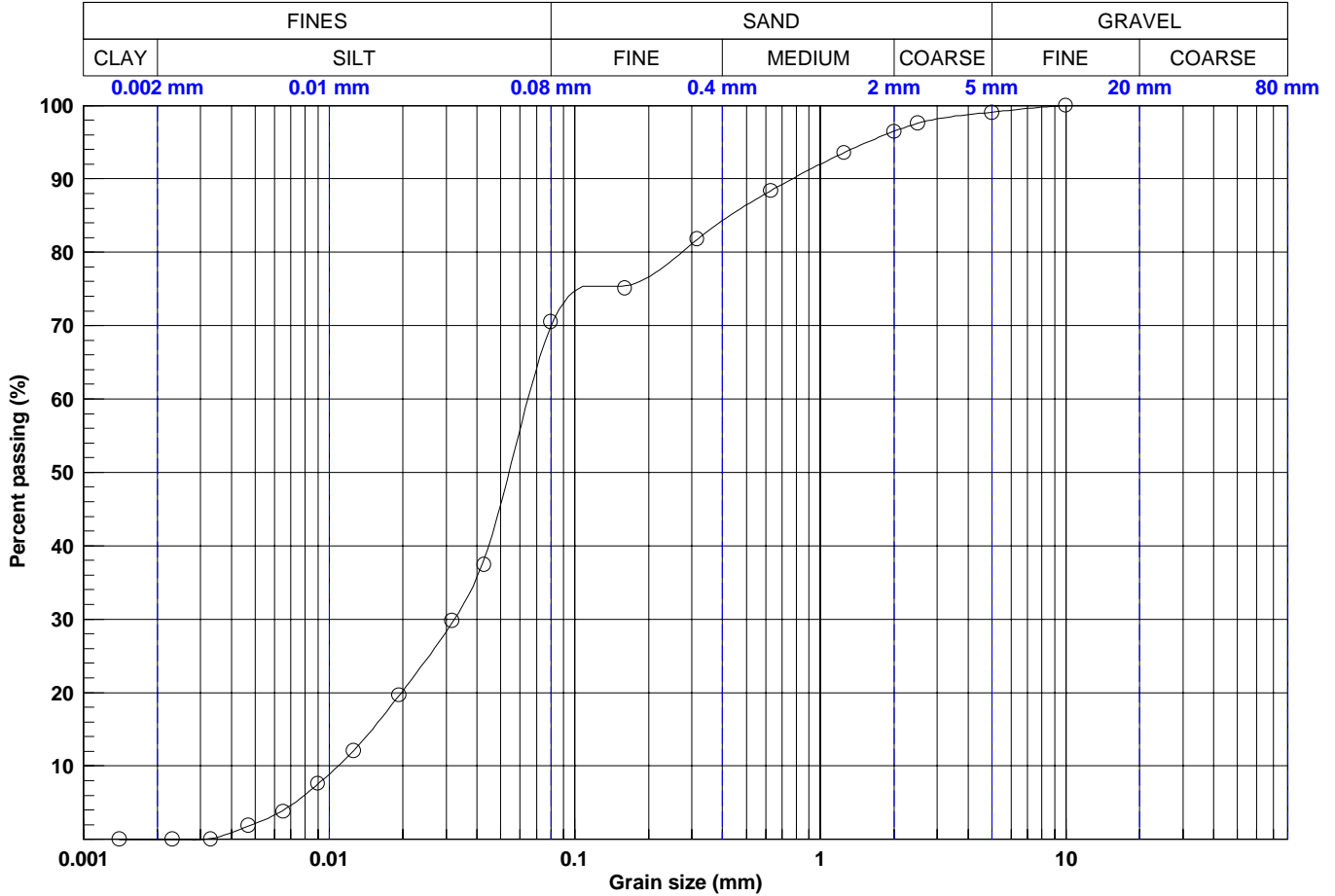
Project N°: **2257554002**

Client: **TROILUS GOLD CORPORATION**

Location plan N°: -

Location: **Troilus Mine, North of Chibougamau, Québec**

Date (start): **2023-07-29**



Legend	CLAY	SILT	SAND	GRAVEL
○	0.0	69.9	29.2	0.9
□	-	-	-	-

Legend	0.002 mm	0.08 mm	0.16 mm	0.315 mm	0.63 mm	1.25 mm	2.5 mm	5 mm	10 mm	14 mm	20 mm	28 mm	40 mm	56 mm	80 mm
○	0.00	69.86	75.43	81.74	88.38	93.56	97.56	99.07	99.98	100.00	100.00	100.00	100.00	100.00	100.00
□	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Legend	Sounding	Sample	Depth (m)	Description	D10	D30	D60	Cu	Cc	USCS	w
○	BH-23-40	2	0.61 - 1.22	Sandy silt.	0.011	0.032	0.065	-	-	-	-
□	BH-23-40	4	1.83 - 2.44	-	-	-	-	-	-	-	14

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Prepared by: **Timothy Lewyckj, Tech.**

Date: **2024-01-08**

Checked by: **Eric Cardinal, Tech, Sr.**

Date: **2024-01-16**

Production date: **2024-03-21**





# GRAIN SIZE ANALYSIS

Sounding N°

BH-23-42

Project name: **Troilus Feasibility Study**

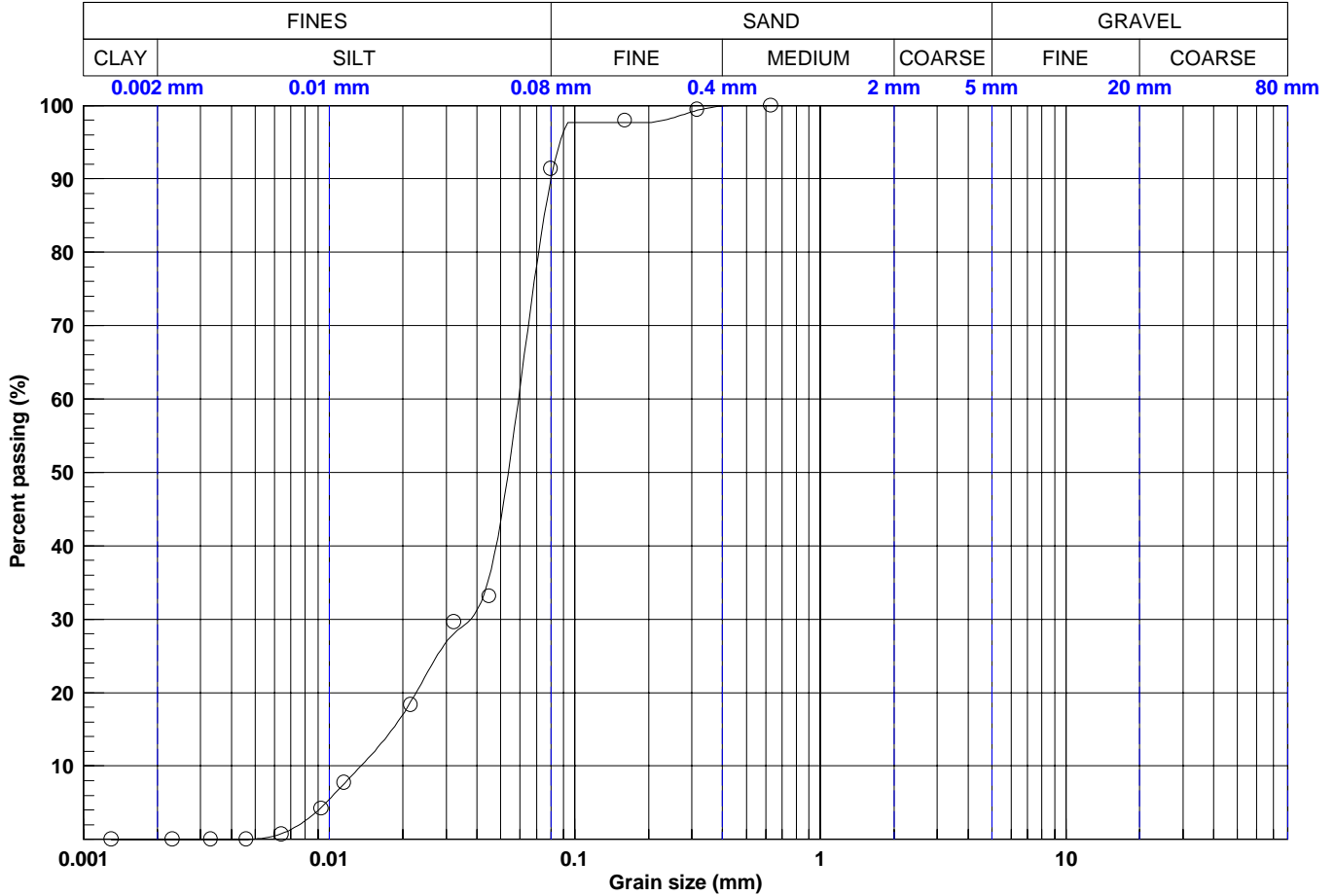
Project N°: **2257554002**

Client: **TROILUS GOLD CORPORATION**

Location plan N°: **-**

Location: **Troilus Mine, North of Chibougamau, Québec**

Date (start): **2023-07-26**



Legend	CLAY	SILT	SAND	GRAVEL
○	0.0	89.8	10.2	0.0

Legend	0.002 mm	0.08 mm	0.16 mm	0.315 mm	0.63 mm	1.25 mm	2.5 mm	5 mm	10 mm	14 mm	20 mm	28 mm	40 mm	56 mm	80 mm
○	0.00	89.80	97.70	99.32	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

Legend	Sounding	Sample	Depth (m)	Description	D10	D30	D60	Cu	Cc	USCS	w
○	BH-23-42	1	0.61 - 1.22	Silt, some sand.	0.013	0.038	0.059	-	-	-	58

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Prepared by: **Timothy Lewyckj, Tech.**

Date: **2024-01-08**

Checked by: **Eric Cardinal, Tech. Sr.**

Date: **2024-01-16**

Production date: **2024-03-21**

Consultant:



Client:



# GRAIN SIZE ANALYSIS

Sounding N°

BH-23-43

Project name: **Troilus Feasibility Study**

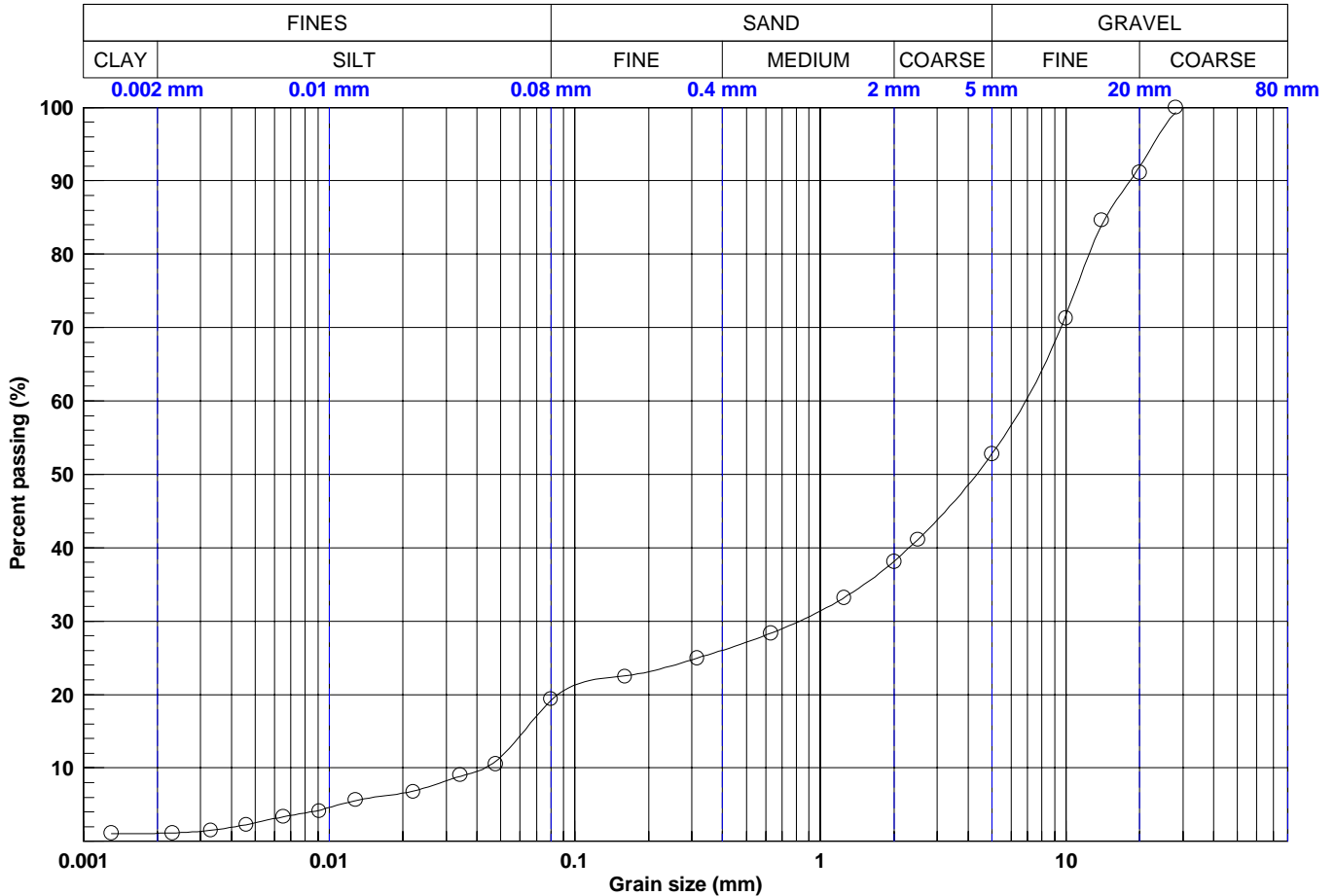
Project N°: **2257554002**

Client: **TROILUS GOLD CORPORATION**

Location plan N°: **-**

Location: **Troilus Mine, North of Chibougamau, Québec**

Date (start): **2023-07-27**



Legend	CLAY	SILT	SAND	GRAVEL
○	1.1	18.1	33.6	47.2

Legend	0.002 mm	0.08 mm	0.16 mm	0.315 mm	0.63 mm	1.25 mm	2.5 mm	5 mm	10 mm	14 mm	20 mm	28 mm	40 mm	56 mm	80 mm
○	1.08	19.16	22.53	24.94	28.35	33.20	41.11	52.75	71.66	83.91	91.90	99.29	100.00	100.00	100.00

Legend	Sounding	Sample	Depth (m)	Description	D10	D30	D60	Cu	Cc	USCS	w
○	BH-23-43	1	0.00 - 0.25	Sandy gravel, some silt, trace clay.	0.043	0.824	6.870	-	-	-	2

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Prepared by: **Timothy Lewyckj, Tech.**

Date: **2024-01-08**

Checked by: **Eric Cardinal, Tech. Sr.**

Date: **2024-01-16**

Production date: **2024-03-21**



Consultant:



Client:



# GRAIN SIZE ANALYSIS

Sounding N°

BH-23-53

Project name: **Troilus Feasibility Study**

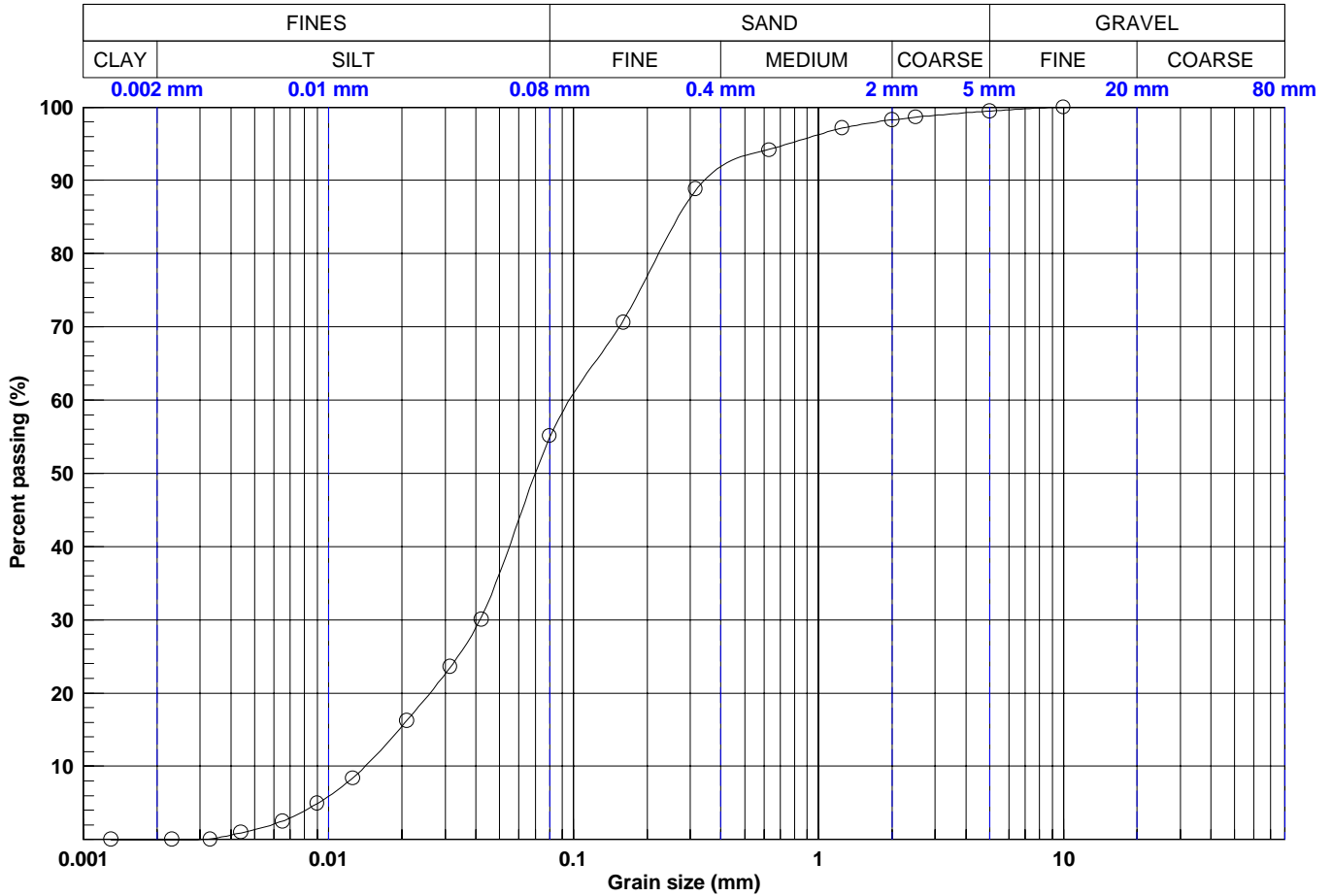
Project N°: **2257554002**

Client: **TROILUS GOLD CORPORATION**

Location plan N°: **-**

Location: **Troilus Mine, North of Chibougamau, Québec**

Date (start): **2023-07-20**



Legend	CLAY	SILT	SAND	GRAVEL
○	0.0	54.8	44.7	0.5
□	-	-	-	-

Legend	0.002 mm	0.08 mm	0.16 mm	0.315 mm	0.63 mm	1.25 mm	2.5 mm	5 mm	10 mm	14 mm	20 mm	28 mm	40 mm	56 mm	80 mm
○	0.00	54.79	70.88	88.61	94.26	97.13	98.63	99.46	99.99	100.00	100.00	100.00	100.00	100.00	100.00
□	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Legend	Sounding	Sample	Depth (m)	Description	D10	D30	D60	Cu	Cc	USCS	w
○	BH-23-53	1	0.61 - 1.22	Silt and sand.	0.014	0.042	0.096	-	-	-	23
□	BH-23-53	5	3.05 - 3.66	-	-	-	-	-	-	-	21

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Prepared by: **Timothy Lewyckj, Tech.**

Date: **2024-01-08**

Checked by: **Eric Cardinal, Tech. Sr.**

Date: **2024-01-16**

Production date: **2024-03-21**



# GRAIN SIZE ANALYSIS

Sounding N°

BH-23-56

Project name: **Troilus Feasibility Study**

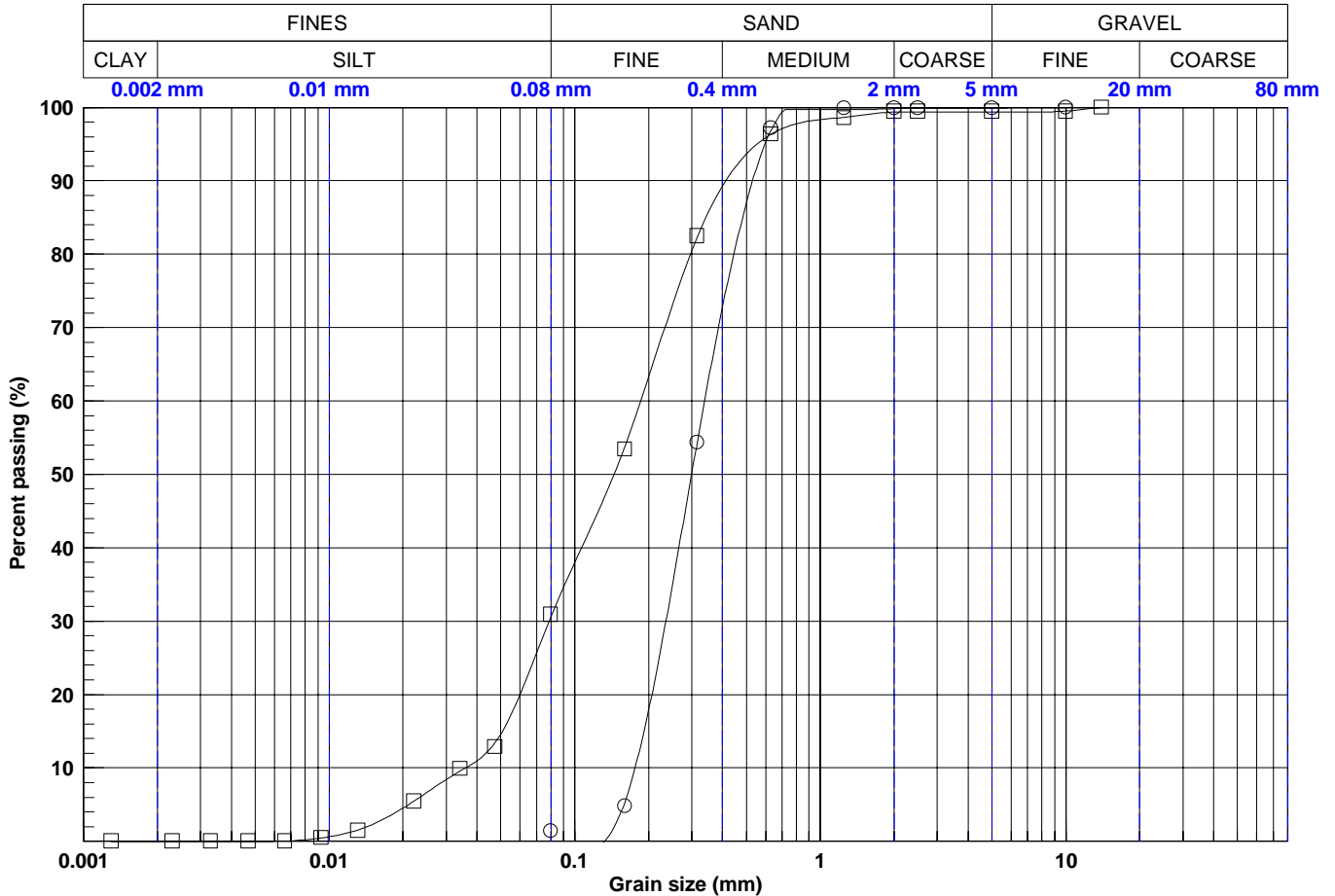
Project N°: **2257554002**

Client: **TROILUS GOLD CORPORATION**

Location plan N°: **-**

Location: **Troilus Mine, North of Chibougamau**

Date (start): **2023-07-20**



Legend	CLAY	SILT	SAND	GRAVEL
○	-	0.0	99.9	0.1
□	0.0	30.6	68.8	0.7

Legend	0.002 mm	0.08 mm	0.16 mm	0.315 mm	0.63 mm	1.25 mm	2.5 mm	5 mm	10 mm	14 mm	20 mm	28 mm	40 mm	56 mm	80 mm
○	-	0.00	5.32	54.21	96.84	99.74	99.90	99.91	100.00	100.00	100.00	100.00	100.00	100.00	100.00
□	0.00	30.58	53.69	82.31	96.34	98.63	99.34	99.34	99.49	99.95	100.00	100.00	100.00	100.00	100.00

Legend	Sounding	Sample	Depth (m)	Description	D10	D30	D60	Cu	Cc	USCS	w
○	BH-23-56	2	0.61 - 1.22	Sand.	0.176	0.235	0.338	-	-	-	3
□	BH-23-56	6	3.05 - 3.66	Silty sand.	0.036	0.079	0.186	-	-	-	25

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Prepared by: **Timothy Lewyckj, Tech.**

Date: **2023-12-20**

Checked by: **Eric Cardinal, Tech. Sr.**

Date: **2023-01-09**

Production date: **2024-03-21**



# GRAIN SIZE ANALYSIS

Sounding N°

BH-23-59

Project name: **Troilus Feasibility Study**

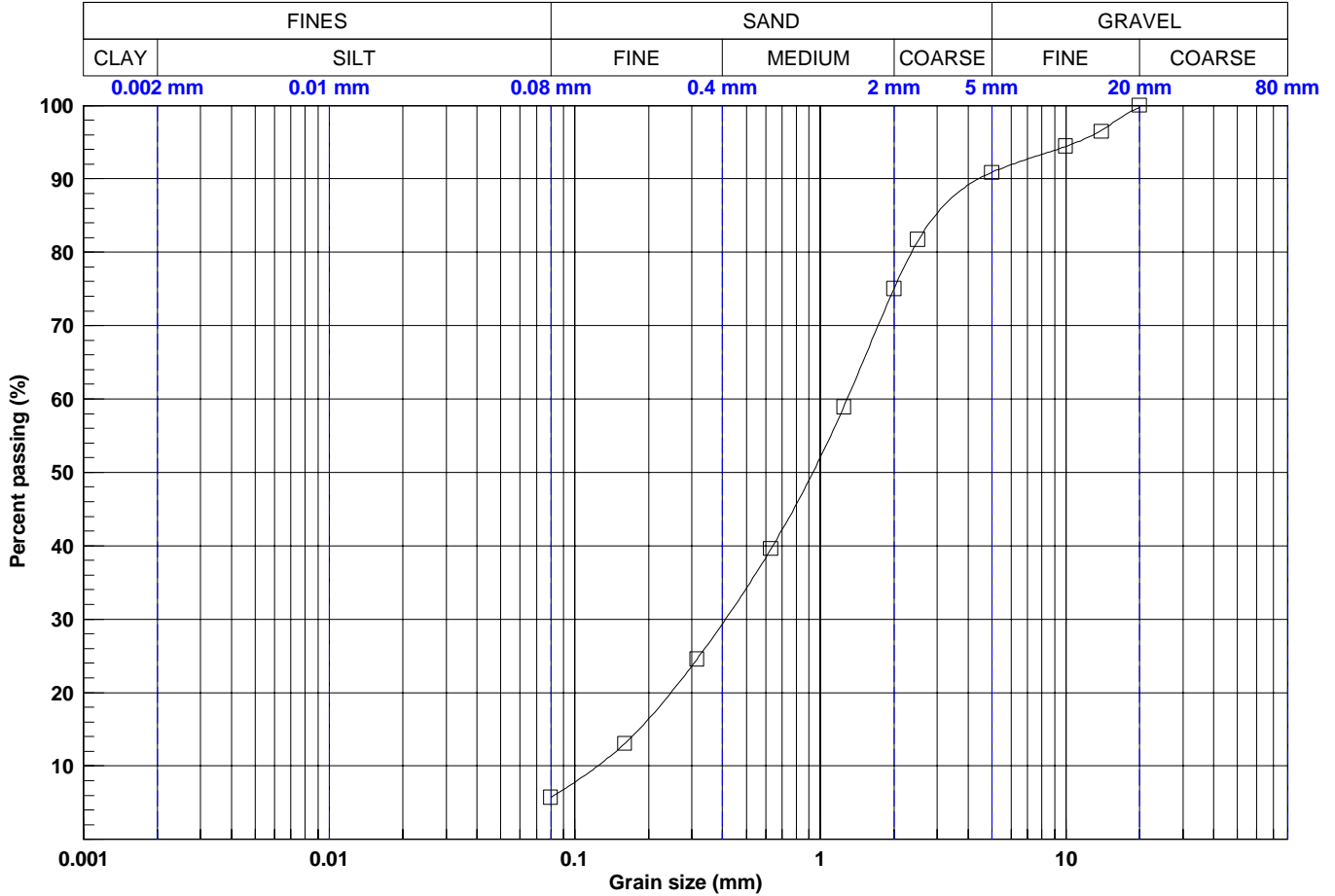
Project N°: **2257554002**

Client: **TROILUS GOLD CORPORATION**

Location plan N°: **-**

Location: **Troilus Mine, North of Chibougamau**

Date (start): **2023-07-22**



Legend	CLAY	SILT	SAND	GRAVEL
○	-	-	-	-
□	-	5.7	85.2	9.1

Legend	0.002 mm	0.08 mm	0.16 mm	0.315 mm	0.63 mm	1.25 mm	2.5 mm	5 mm	10 mm	14 mm	20 mm	28 mm	40 mm	56 mm	80 mm
○	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
□	-	5.70	13.07	24.54	39.58	58.99	81.54	90.88	94.41	96.64	99.72	100.00	100.00	100.00	100.00

Legend	Sounding	Sample	Depth (m)	Description	D10	D30	D60	Cu	Cc	USCS	w
○	BH-23-59	1	0.00 - 0.61	-	-	-	-	-	-	-	10
□	BH-23-59	3	2.19 - 2.50	Sand, trace gravel and silt.	0.124	0.412	1.288	-	-	-	19

Prepared by: **Timothy Lewyckj, Tech.**

Date: **2023-12-20**

Checked by: **Eric Cardinal, Tech. Sr.**

Date: **2024-01-09**

Production date: **2024-03-21**



# GRAIN SIZE ANALYSIS

Sounding N°

BH-23-71

Project name: **Troilus Feasibility Study**

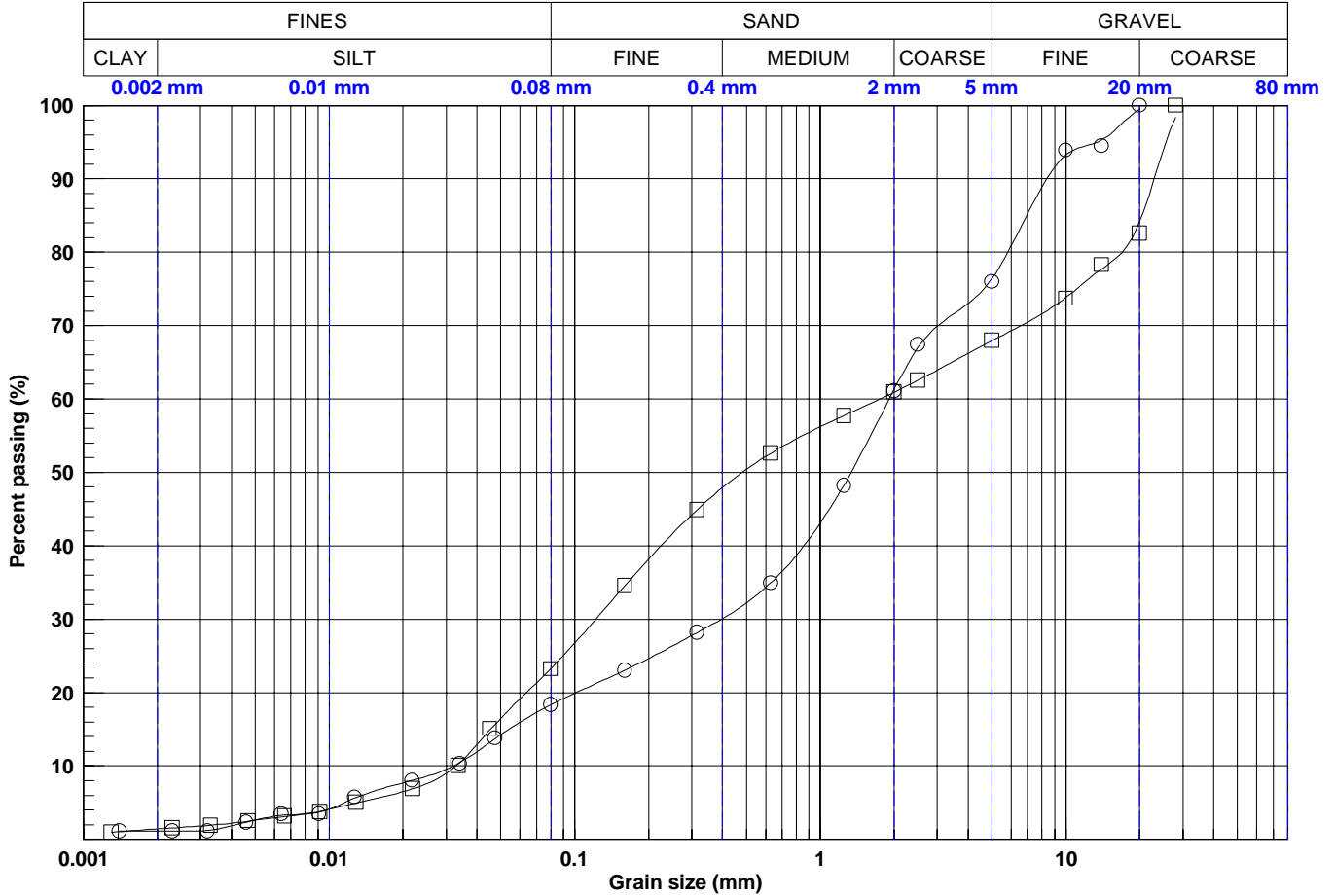
Project N°: **2257554002**

Client: **TROILUS GOLD CORPORATION**

Location plan N°: -

Location: **Troilus Mine, North of Chibougamau, Québec**

Date (start): **2023-07-25**



Legend	CLAY	SILT	SAND	GRAVEL
○	1.1	17.2	58.1	23.6
□	1.4	21.8	44.7	32.1

Legend	0.002 mm	0.08 mm	0.16 mm	0.315 mm	0.63 mm	1.25 mm	2.5 mm	5 mm	10 mm	14 mm	20 mm	28 mm	40 mm	56 mm	80 mm
○	1.09	18.32	23.02	28.14	34.97	48.28	66.98	76.40	93.23	95.29	99.48	100.00	100.00	100.00	100.00
□	1.42	23.27	34.54	44.90	52.61	57.71	62.55	67.93	73.81	77.70	84.16	98.33	100.00	100.00	100.00

Legend	Sounding	Sample	Depth (m)	Description	D10	D30	D60	Cu	Cc	USCS	w
○	BH-23-71	1	0.00 - 0.61	Silty GRAVELLY SAND, trace clay.	0.032	0.396	1.910	-	-	-	382
□	BH-23-71	3	1.83 - 2.44	Silty GRAVELLY SAND, trace clay.	0.033	0.122	1.755	-	-	-	8

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Prepared by: **Tim Lewyckj, tech.**

Date: **2023-11-10**

Checked by: **Eric Cardinal Tech. Sr.**

Date: **2024-01-08**

Production date: **2024-03-21**



# GRAIN SIZE ANALYSIS

Sounding N°

BH-23-72

Project name: **Troilus Feasibility Study**

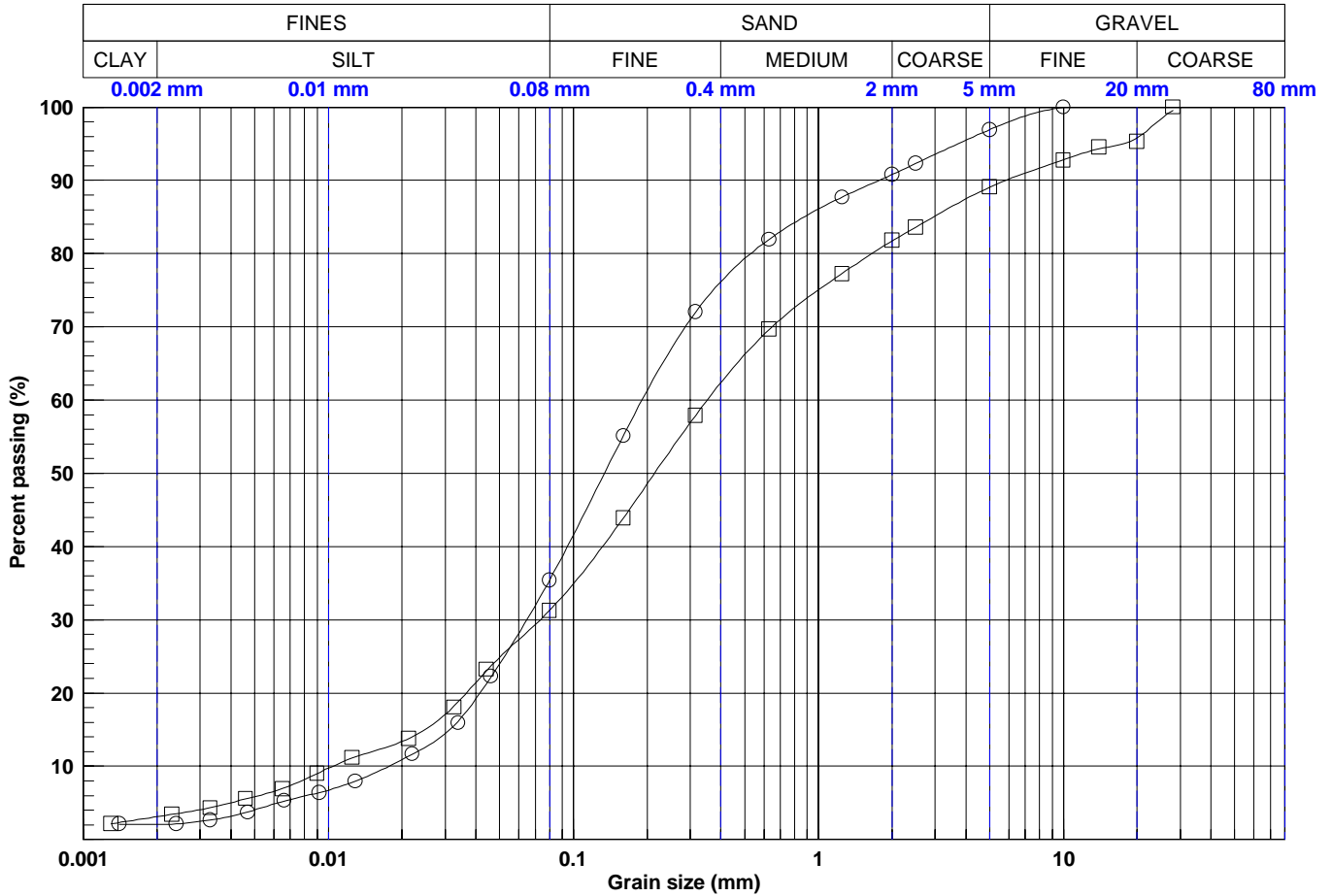
Project N°: **2257554002**

Client: **TROILUS GOLD CORPORATION**

Location plan N°: **-**

Location: **Troilus Mine, North of Chibougamau, Québec**

Date (start): **2023-07-25**



Legend	CLAY	SILT	SAND	GRAVEL
○	2.0	33.4	61.5	3.1
□	3.1	28.2	57.8	10.9

Legend	0.002 mm	0.08 mm	0.16 mm	0.315 mm	0.63 mm	1.25 mm	2.5 mm	5 mm	10 mm	14 mm	20 mm	28 mm	40 mm	56 mm	80 mm
○	2.04	35.42	55.11	71.98	81.95	87.71	92.32	96.91	99.95	100.00	100.00	100.00	100.00	100.00	100.00
□	3.11	31.28	43.90	57.87	69.64	77.26	83.62	89.07	92.79	94.31	95.80	99.54	100.00	100.00	100.00

Legend	Sounding	Sample	Depth (m)	Description	D10	D30	D60	Cu	Cc	USCS	w
○	BH-23-72	2	1.22 - 1.83	Silty sand, trace gravel and clay.	0.018	0.065	0.191	-	-	-	11
□	BH-23-72	10	6.71 - 7.32	Silty sand, some gravel, trace clay.	0.010	0.073	0.352	-	-	-	7

Prepared by: **Tim Lewyckj, tech.**

Date: **2023-11-10**

Checked by: **Eric Cardinal Tech. Sr.**

Date: **2024-01-08**

Production date: **2024-03-21**

Consultant:



Client:



# GRAIN SIZE ANALYSIS

Sounding N°

BH-23-73

Project name: **Troilus Feasibility Study**

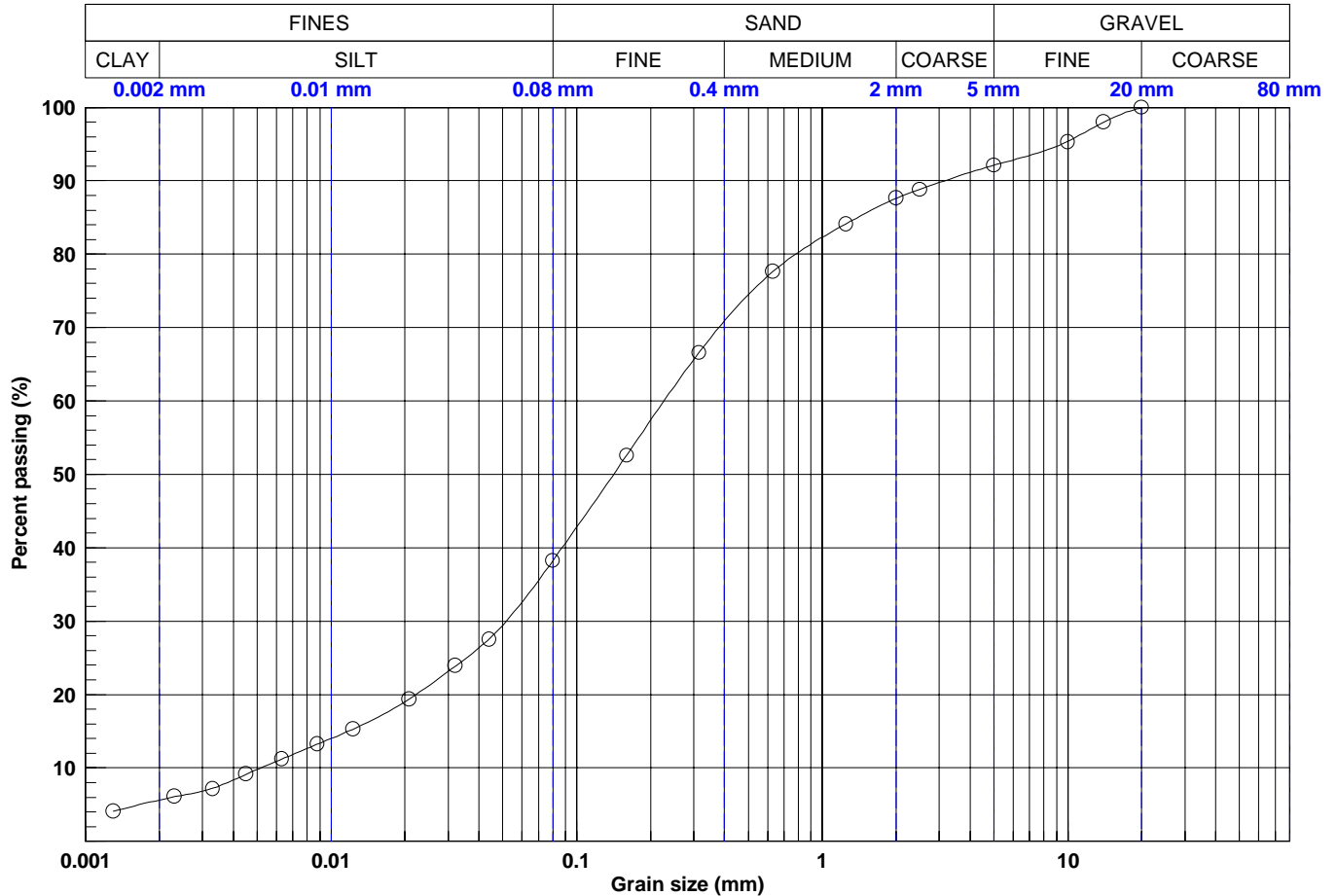
Project N°: **2257554002**

Client: **TROILUS GOLD CORPORATION**

Location plan N°: **-**

Location: **Troilus Mine, North of Chibougamau, Québec**

Date (start): **2023-07-25**



Legend	CLAY	SILT	SAND	GRAVEL
○	5.6	32.6	53.9	7.9

Legend	0.002 mm	0.08 mm	0.16 mm	0.315 mm	0.63 mm	1.25 mm	2.5 mm	5 mm	10 mm	14 mm	20 mm	28 mm	40 mm	56 mm	80 mm
○	5.63	38.23	52.61	66.57	77.63	84.14	88.83	92.11	95.38	97.97	99.90	100.00	100.00	100.00	100.00

Legend	Sounding	Sample	Depth (m)	Description	D10	D30	D60	Cu	Cc	USCS	w
○	BH-23-73	4	2.44 - 3.05	Silty sand, some gravel, trace clay.	0.005	0.052	0.227	-	-	-	11

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Prepared by: **Timothy Lewycky, tech.**

Date: **2023-10-04**

Checked by: **Eric Cardinal Tech. Sr.**

Date: **2024-01-08**

Production date: **2024-03-21**



# GRAIN SIZE ANALYSIS

Sounding N°

BH-23-75

Project name: **Troilus Feasibility Study**

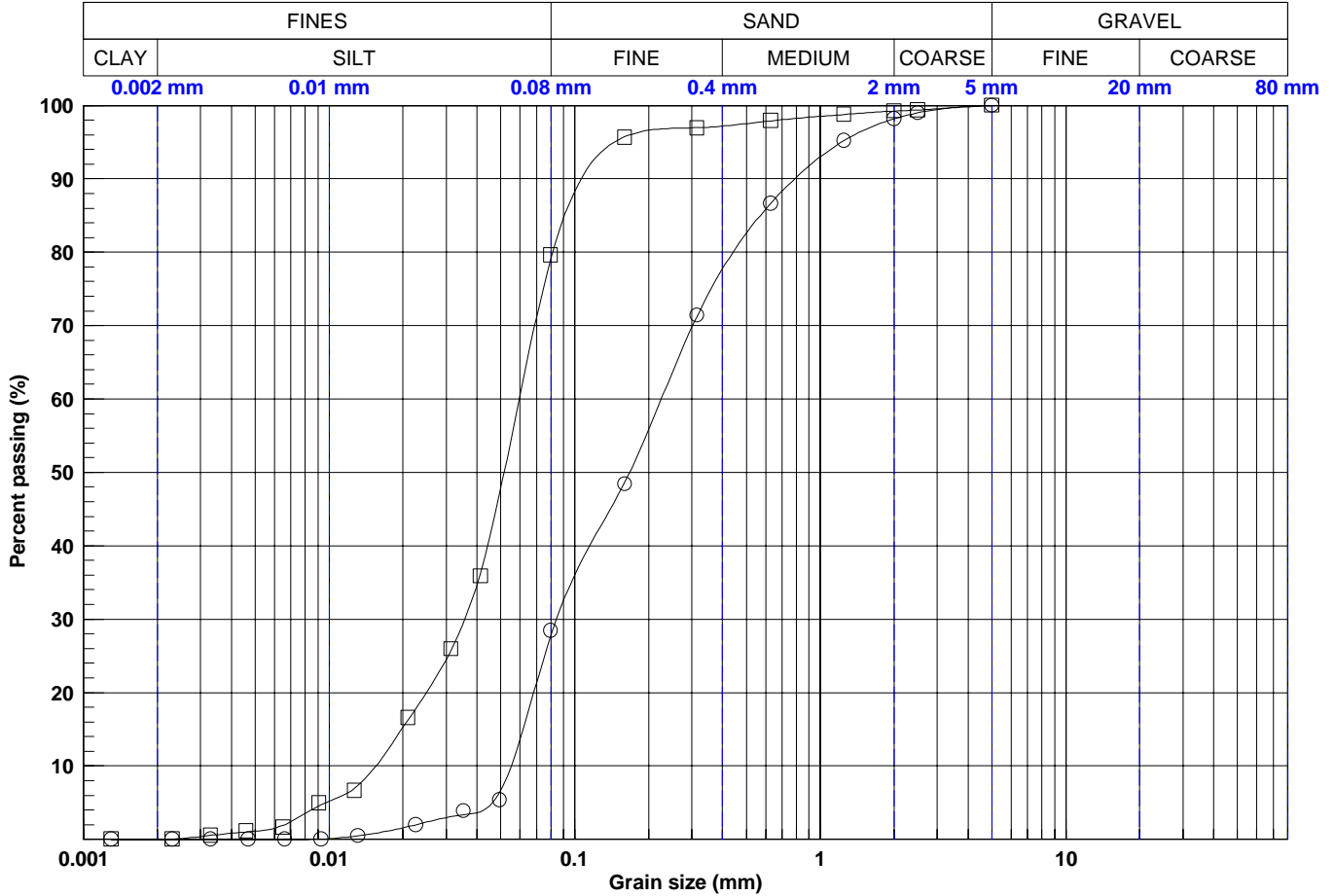
Project N°: **2257554002**

Client: **TROILUS GOLD CORPORATION**

Location plan N°: -

Location: **Troilus Mine, North of Chibougamau, Québec**

Date (start): **2023-07-20**



Legend	CLAY	SILT	SAND	GRAVEL
○	0.0	27.8	72.2	0.0
□	0.0	79.1	20.9	0.0

Legend	0.002 mm	0.08 mm	0.16 mm	0.315 mm	0.63 mm	1.25 mm	2.5 mm	5 mm	10 mm	14 mm	20 mm	28 mm	40 mm	56 mm	80 mm
○	0.00	27.75	48.67	71.26	86.67	95.20	98.99	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
□	0.00	79.09	95.72	96.96	97.90	98.76	99.38	99.99	100.00	100.00	100.00	100.00	100.00	100.00	100.00

Legend	Sounding	Sample	Depth (m)	Description	D10	D30	D60	Cu	Cc	USCS	w
○	BH-23-75	1	0.61 - 1.22	Silty sand.	0.055	0.084	0.226	-	-	-	36
□	BH-23-75	5	3.05 - 3.66	Sandy silt.	0.015	0.036	0.059	-	-	-	18

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Prepared by: **Timothy Lewyckj, Tech.**

Date: **2024-01-08**

Checked by: **Eric Crdinal, Tech. Sr.**

Date: **2024-01-08**

Production date: **2024-03-21**

Consultant:



Client:



# GRAIN SIZE ANALYSIS

Sounding N°

BH-23-77

Project name: **Troilus Feasibility Study**

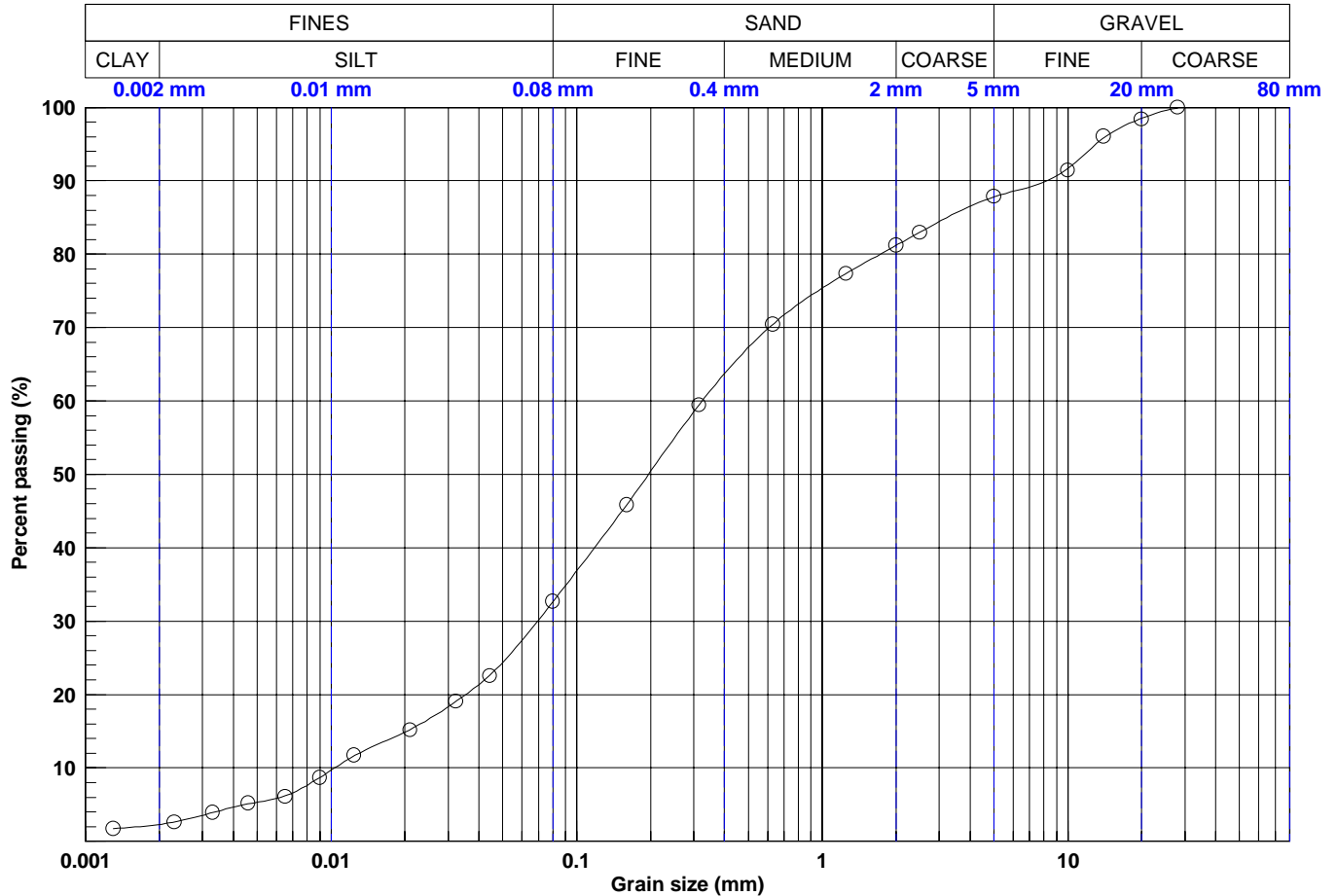
Project N°: **2257554002**

Client: **TROILUS GOLD CORPORATION**

Location plan N°: **-**

Location: **Troilus Mine, North of Chibougamau, Québec**

Date (start): **2023-07-24**



Legend	CLAY	SILT	SAND	GRAVEL
○	2.3	30.3	55.2	12.2

Legend	0.002 mm	0.08 mm	0.16 mm	0.315 mm	0.63 mm	1.25 mm	2.5 mm	5 mm	10 mm	14 mm	20 mm	28 mm	40 mm	56 mm	80 mm
○	2.30	32.64	45.86	59.44	70.44	77.35	82.99	87.81	91.67	95.81	98.48	99.91	100.00	100.00	100.00

Legend	Sounding	Sample	Depth (m)	Description	D10	D30	D60	Cu	Cc	USCS	w
○	BH-23-77	2	0.61 - 1.22	Silty sand, some gravel, trace clay.	0.010	0.069	0.325	-	-	-	10

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Prepared by: **Timothy Lewycky, tech.**

Date: **2023-10-04**

Checked by: **Eric Cardinal Tech. Sr.**

Date: **2024-01-08**

Production date: **2024-03-21**



# GRAIN SIZE ANALYSIS

Sounding N°

BH-23-78

Project name: **Troilus Feasibility Study**

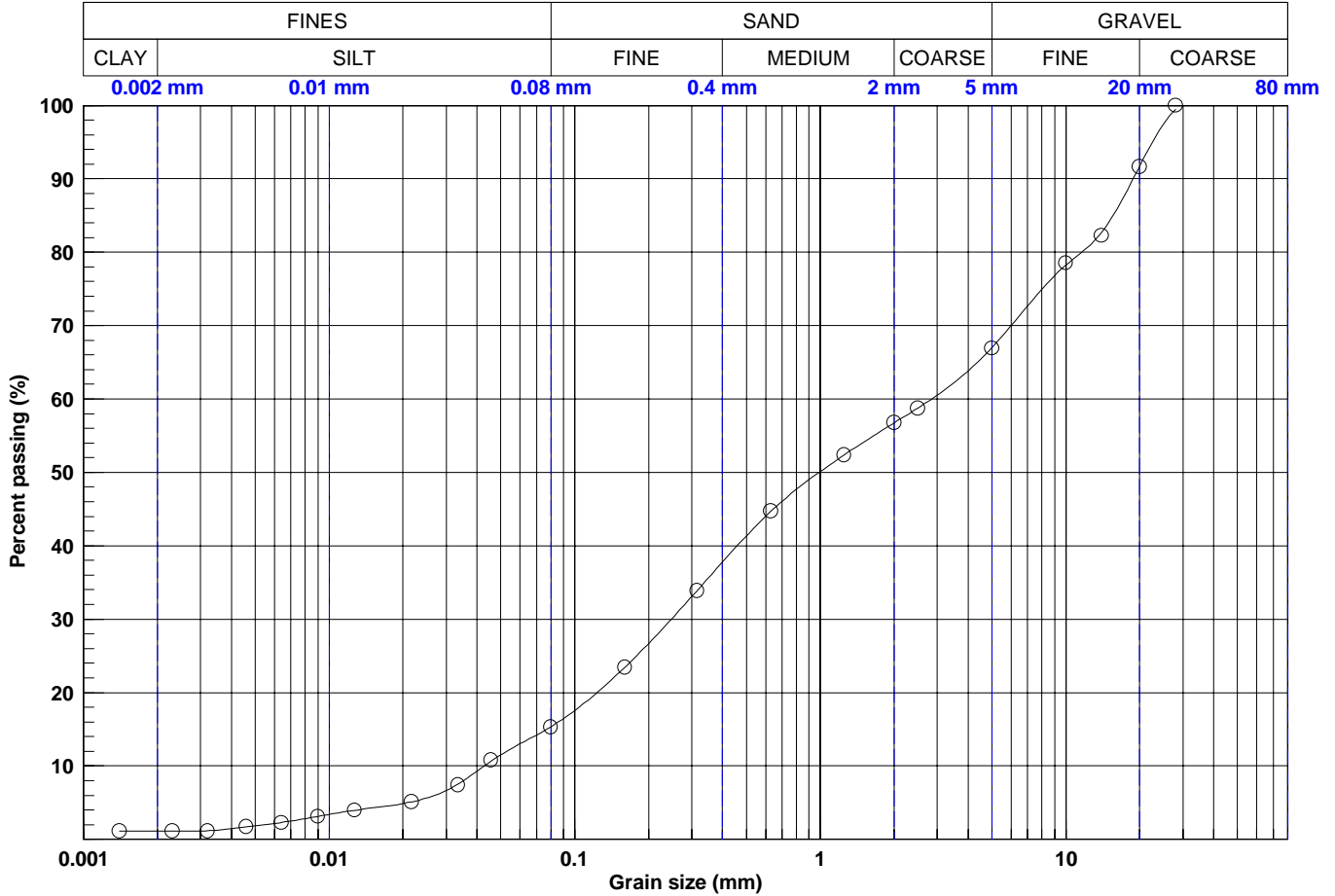
Project N°: **2257554002**

Client: **TROILUS GOLD CORPORATION**

Location plan N°: **-**

Location: **Troilus Mine, North of Chibougamau, Québec**

Date (start): **2023-07-29**



Legend	CLAY	SILT	SAND	GRAVEL
○	1.1	14.3	51.6	33.0

Legend	0.002 mm	0.08 mm	0.16 mm	0.315 mm	0.63 mm	1.25 mm	2.5 mm	5 mm	10 mm	14 mm	20 mm	28 mm	40 mm	56 mm	80 mm
○	1.10	15.35	23.43	33.87	44.70	52.37	58.76	67.00	78.22	82.71	91.72	99.45	100.00	100.00	100.00

Legend	Sounding	Sample	Depth (m)	Description	D10	D30	D60	Cu	Cc	USCS	w
○	BH-23-78	2	0.61 - 1.22	Silty gravelly sand, trace clay.	0.043	0.248	2.846	-	-	-	4

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Prepared by: **Timothy Lewycky, tech.**

Date: **2023-10-05**

Checked by: **Eric Cardinal Tech. Sr.**

Date: **2024-01-08**

Production date: **2024-03-21**

Consultant:



Client:



# GRAIN SIZE ANALYSIS

Sounding N°

BH-23-79

Project name: **Troilus Feasibility Study**

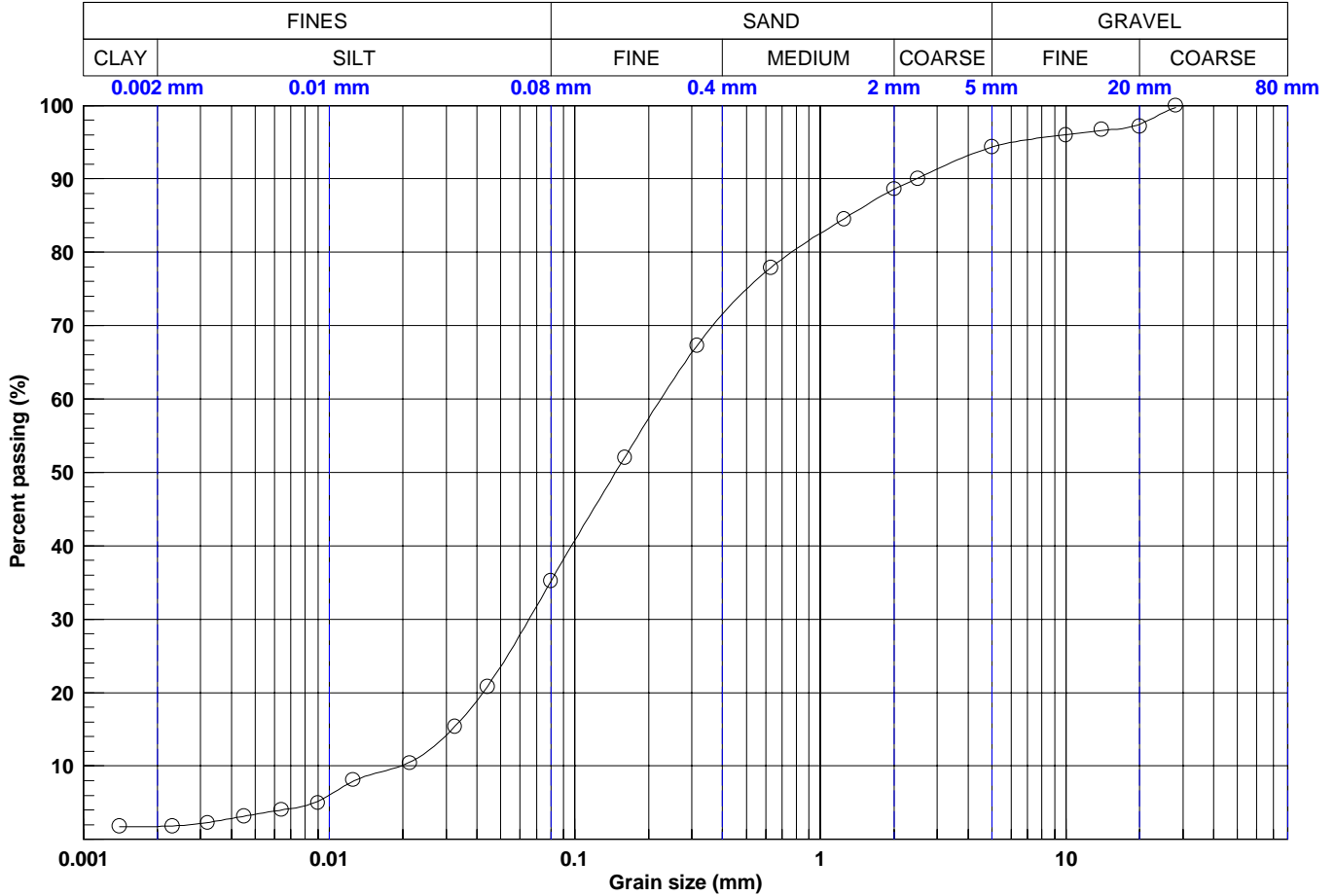
Project N°: **2257554002**

Client: **TROILUS GOLD CORPORATION**

Location plan N°: **-**

Location: **Troilus Mine, North of Chibougamau, Québec**

Date (start): **2023-07-24**



Legend	CLAY	SILT	SAND	GRAVEL
○	1.8	33.4	59.1	5.7

Legend	0.002 mm	0.08 mm	0.16 mm	0.315 mm	0.63 mm	1.25 mm	2.5 mm	5 mm	10 mm	14 mm	20 mm	28 mm	40 mm	56 mm	80 mm
○	1.75	35.18	52.04	67.27	77.91	84.55	90.11	94.32	95.99	96.59	97.43	99.72	100.00	100.00	100.00

Legend	Sounding	Sample	Depth (m)	Description	D10	D30	D60	Cu	Cc	USCS	w
○	BH-23-79	7	3.66 - 4.27	Silty sand, some gravel, trace clay.	0.020	0.065	0.224	-	-	-	11

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Prepared by: **Timothy Lewyckyj, tech.**

Date: **2023-10-05**

Checked by: **Eric Cardinal Tech. Sr.**

Date: **2024-01-08**

Production date: **2024-03-21**



# GRAIN SIZE ANALYSIS

Sounding N°

BH-23-80

Project name: **Troilus Feasibility Study**

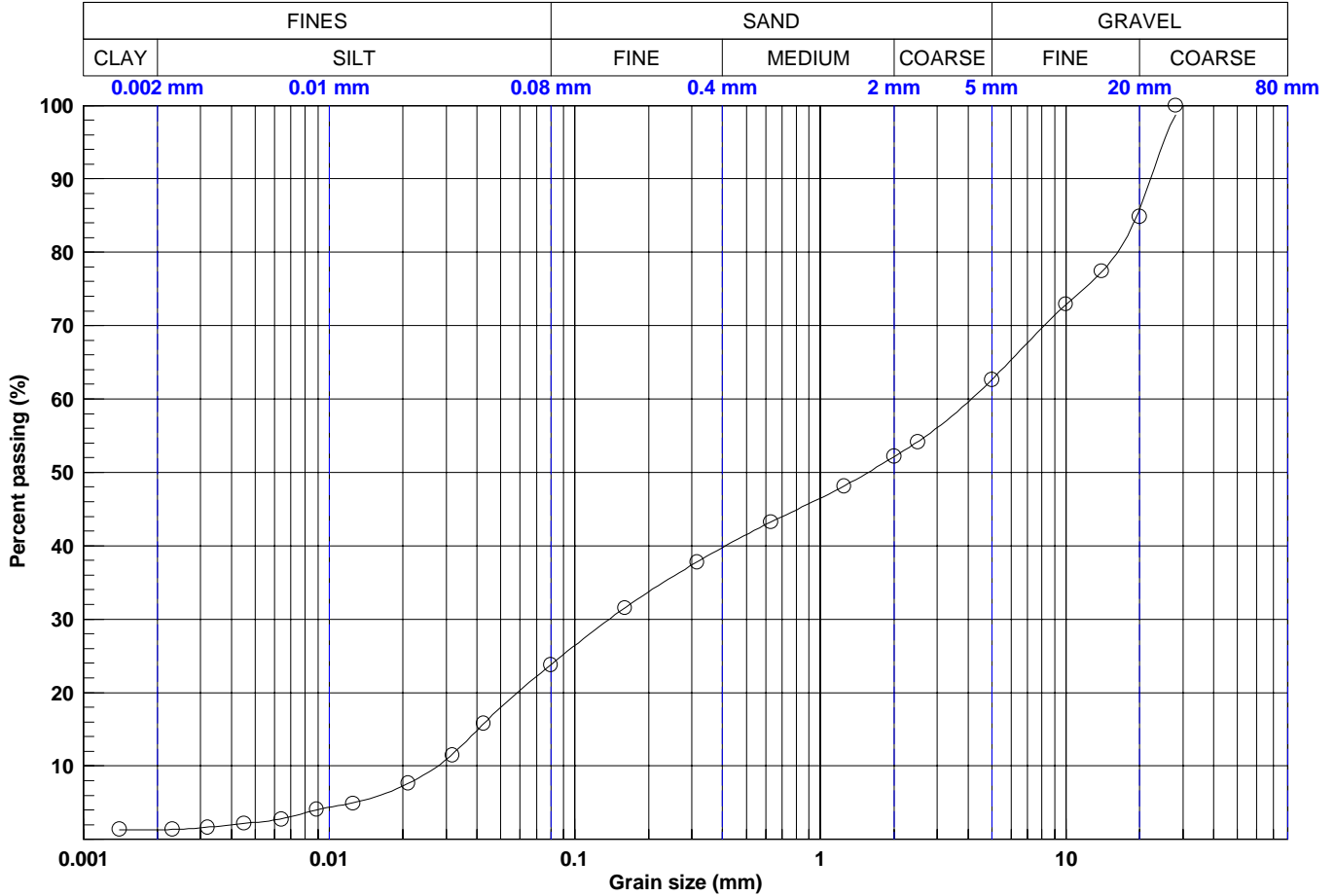
Project N°: **2257554002**

Client: **TROILUS GOLD CORPORATION**

Location plan N°: **-**

Location: **Troilus Mine, North of Chibougamau, Québec**

Date (start): **2023-07-24**



Legend	CLAY	SILT	SAND	GRAVEL
○	1.3	22.5	38.8	37.4

Legend	0.002 mm	0.08 mm	0.16 mm	0.315 mm	0.63 mm	1.25 mm	2.5 mm	5 mm	10 mm	14 mm	20 mm	28 mm	40 mm	56 mm	80 mm
○	1.33	23.81	31.52	37.78	43.24	48.13	54.20	62.65	72.82	77.33	85.90	98.68	100.00	100.00	100.00

Legend	Sounding	Sample	Depth (m)	Description	D10	D30	D60	Cu	Cc	USCS	w
○	BH-23-80	-	0.00 - 0.61	Silty sand and gravel, trace clay.	0.028	0.138	4.130	-	-	-	8

Prepared by: **Timothy Lewycky, tech.**

Date: **2023-10-05**

Checked by: **Eric Cardinal Tech. Sr.**

Date: **2024-01-08**

Production date: **2024-03-21**

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# GRAIN SIZE ANALYSIS

Sounding N°

BH-23-88

Project name: **Troilus Feasibility Study**

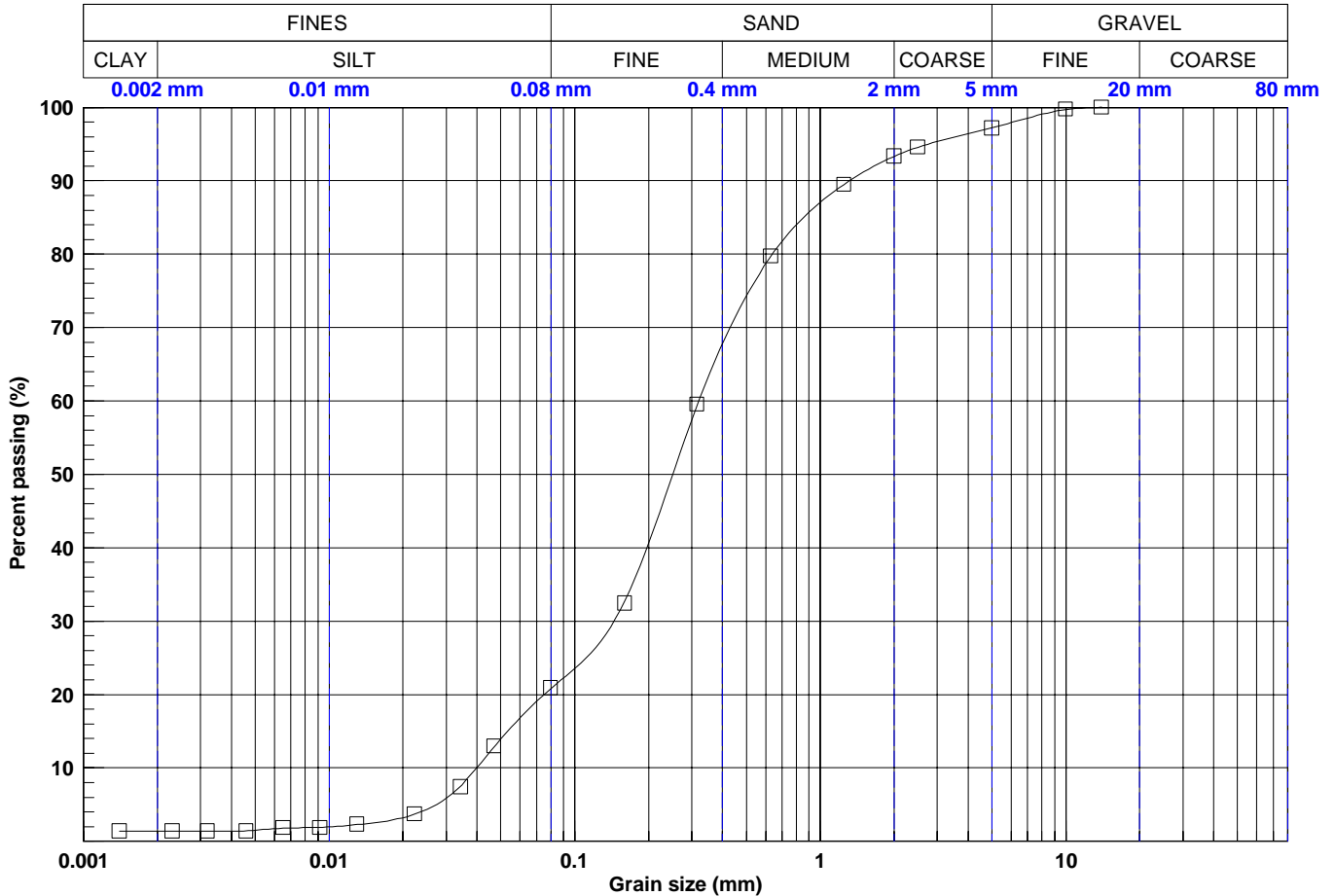
Project N°: **2257554002**

Client: **TROILUS GOLD CORPORATION**

Location plan N°: -

Location: **Troilus Mine, North of Chibougamau, Québec**

Date (start): **2023-07-30**



Legend	CLAY	SILT	SAND	GRAVEL
○	-	-	-	-
□	1.4	19.4	76.4	2.8

Legend	0.002 mm	0.08 mm	0.16 mm	0.315 mm	0.63 mm	1.25 mm	2.5 mm	5 mm	10 mm	14 mm	20 mm	28 mm	40 mm	56 mm	80 mm
○	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
□	1.36	20.80	32.69	59.38	79.70	89.51	94.56	97.19	99.70	100.00	100.00	100.00	100.00	100.00	100.00

Legend	Sounding	Sample	Depth (m)	Description	D10	D30	D60	Cu	Cc	USCS	w
○	BH-23-88	2	0.61 - 1.22	-	-	-	-	-	-	-	-
□	BH-23-88	3	1.22 - 1.83	Silty sand, trace gravel and clay.	0.040	0.145	0.320	-	-	-	20

Prepared by: **Timothy Lewycky, tech.**

Date: **2024-01-08**

Checked by: **Eric Cardinal Tech. Sr.**

Date: **2024-01-08**

Production date: **2024-03-21**



# GRAIN SIZE ANALYSIS

Sounding N°

MW-23-24

Project name: **Troilus Feasibility Study**

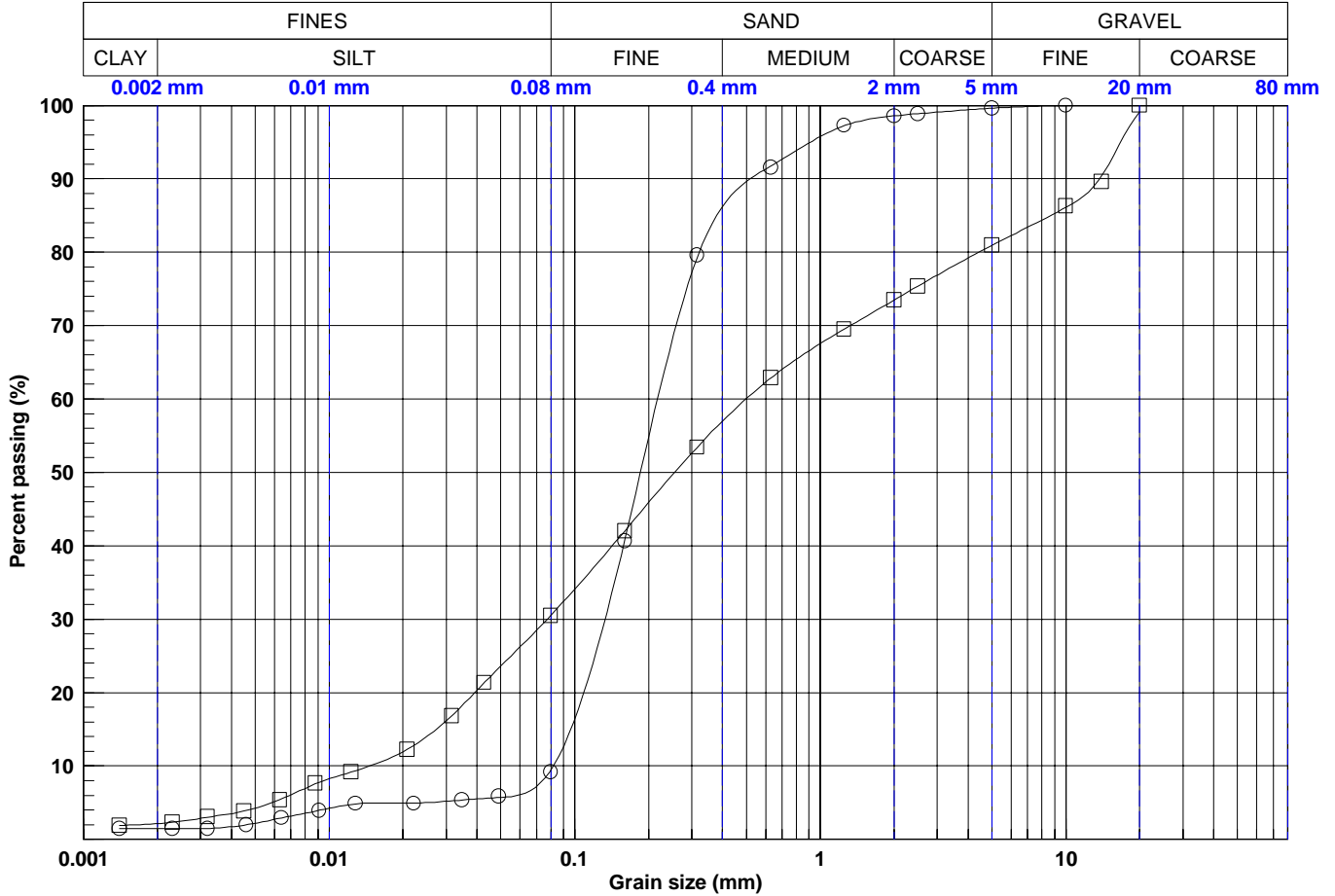
Project N°: **2257554002**

Client: **TROILUS GOLD CORPORATION**

Location plan N°: **-**

Location: **Troilus Mine, North of Chibougamau, Québec**

Date (start): **2023-07-29**



Legend	CLAY	SILT	SAND	GRAVEL
○	1.4	8.0	90.1	0.4
□	2.1	28.4	50.4	19.1

Legend	0.002 mm	0.08 mm	0.16 mm	0.315 mm	0.63 mm	1.25 mm	2.5 mm	5 mm	10 mm	14 mm	20 mm	28 mm	40 mm	56 mm	80 mm
○	1.44	9.48	40.73	79.25	91.75	97.22	98.88	99.61	99.99	100.00	100.00	100.00	100.00	100.00	100.00
□	2.13	30.51	42.03	53.40	62.87	69.49	75.37	80.94	86.10	90.41	99.11	100.00	100.00	100.00	100.00

Legend	Sounding	Sample	Depth (m)	Description	D10	D30	D60	Cu	Cc	USCS	w
○	MW-23-24	1	0.61 - 1.22	Sand, some silt, trace clay.	0.082	0.133	0.218	-	-	-	-
□	MW-23-24	5	3.05 - 3.66	Gravelly silty sand, trace clay.	0.015	0.077	0.498	-	-	-	8

Prepared by: **Timothy Lewykyj, tech.**

Date: **2023-10-05**

Checked by: **Eric Cardinal Tech. Sr.**

Date: **2024-01-08**

Production date: **2024-03-21**

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# GRAIN SIZE ANALYSIS

Sounding N°

TM-23-28

Project name: **Troilus Feasibility Study**

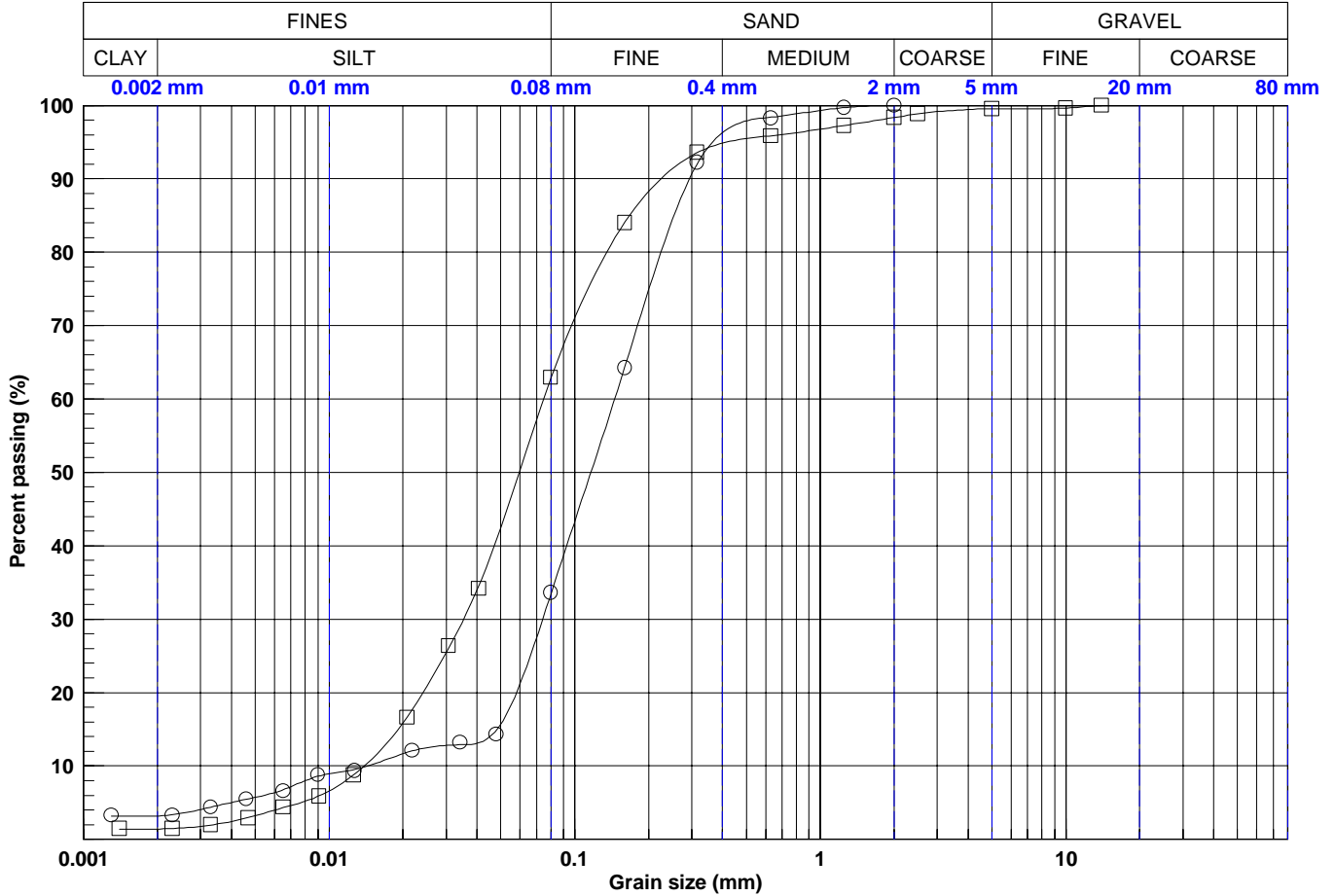
Project N°: **2257554002**

Client: **TROILUS GOLD CORPORATION**

Location plan N°: **-**

Location: **Troilus Mine, North of Chibougamau, Québec**

Date (start): **2023-09-28**



Legend	CLAY	SILT	SAND	GRAVEL
○	3.2	30.2	66.6	0.0
□	1.4	61.4	36.7	0.5

Legend	0.002 mm	0.08 mm	0.16 mm	0.315 mm	0.63 mm	1.25 mm	2.5 mm	5 mm	10 mm	14 mm	20 mm	28 mm	40 mm	56 mm	80 mm
○	3.17	33.38	64.37	92.01	98.39	99.70	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
□	1.41	62.79	84.01	93.56	95.86	97.25	98.84	99.53	99.64	99.96	100.00	100.00	100.00	100.00	100.00

Legend	Sounding	Sample	Depth (m)	Description	D10	D30	D60	Cu	Cc	USCS	w
○	TM-23-28	01	0.20 - 0.65	Silty sand, trace clay.	0.014	0.074	0.145	-	-	-	39
□	TM-23-28	02	0.65 - 2.05	Silt and sand, trace clay.	0.014	0.035	0.075	-	-	-	24

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Prepared by: **Tim Lewyckj, tech.**

Date: **2023-11-13**

Checked by: **Eric Cardinal Tech. Sr.**

Date: **2024-01-08**

Production date: **2024-03-21**

Consultant:



Client:



# GRAIN SIZE ANALYSIS

Sounding N°

TM-23-29

Project name: **Troilus Feasibility Study**

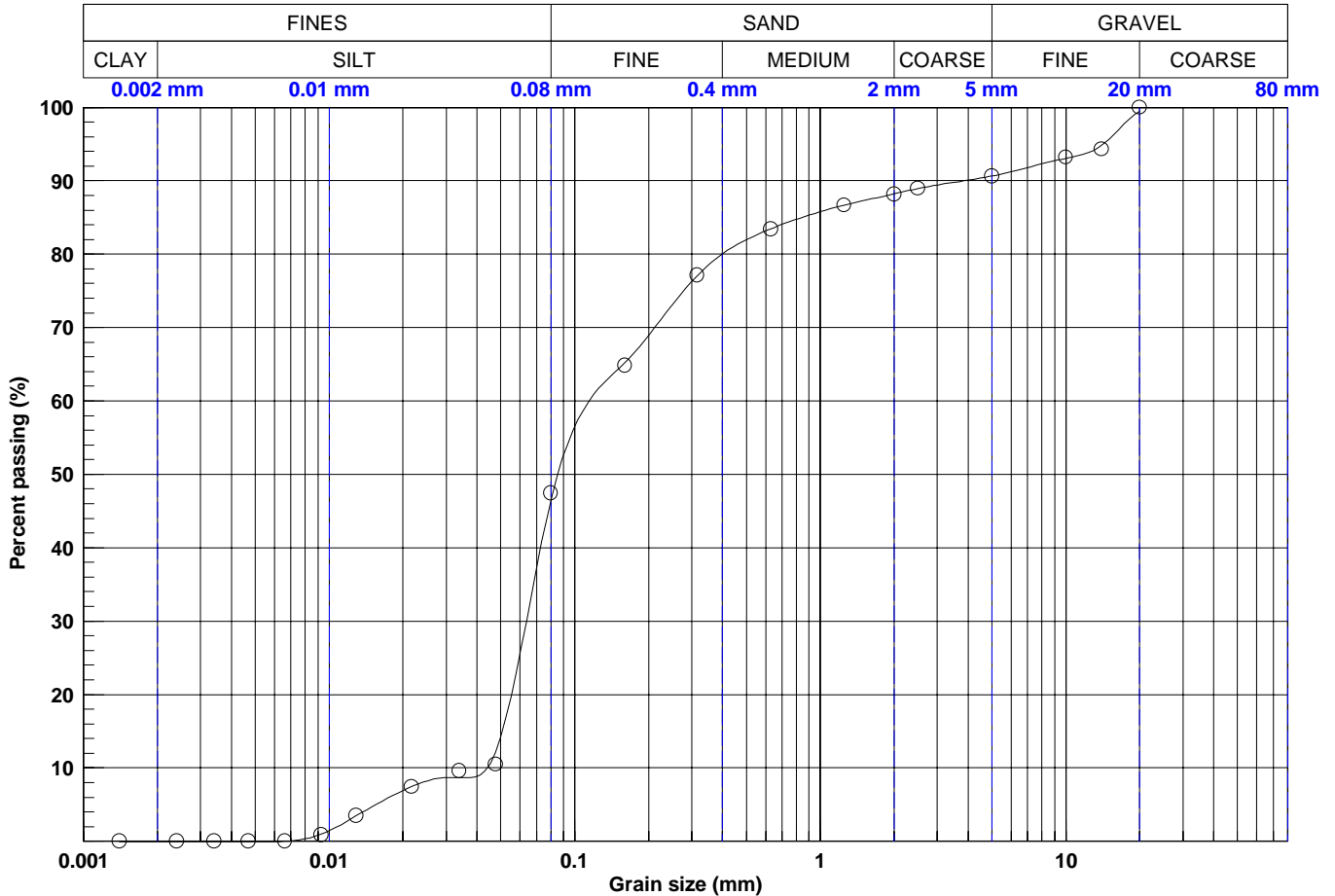
Project N°: **2257554002**

Client: **TROILUS GOLD CORPORATION**

Location plan N°: **-**

Location: **Troilus Mine, North of Chibougamau, Québec**

Date (start): **2023-09-28**



Legend	CLAY	SILT	SAND	GRAVEL
○	0.0	46.4	44.3	9.3

Legend	0.002 mm	0.08 mm	0.16 mm	0.315 mm	0.63 mm	1.25 mm	2.5 mm	5 mm	10 mm	14 mm	20 mm	28 mm	40 mm	56 mm	80 mm
○	0.00	46.37	65.19	77.05	83.46	86.67	88.95	90.65	93.04	94.83	99.49	100.00	100.00	100.00	100.00

Legend	Sounding	Sample	Depth (m)	Description	D10	D30	D60	Cu	Cc	USCS	w
○	TM-23-29	01	0.15 - 0.55	Silt and sand, some gravel.	0.044	0.064	0.114	-	-	-	48

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Prepared by: **Tim Lewyckj, tech.**

Date: **2023-11-13**

Checked by: **Eric Cardinal Tech. Sr.**

Date: **2024-01-08**

Production date: **2024-03-21**

Consultant:



Client:



# GRAIN SIZE ANALYSIS

Sounding N°

TM-23-32

Project name: **Troilus Feasibility Study**

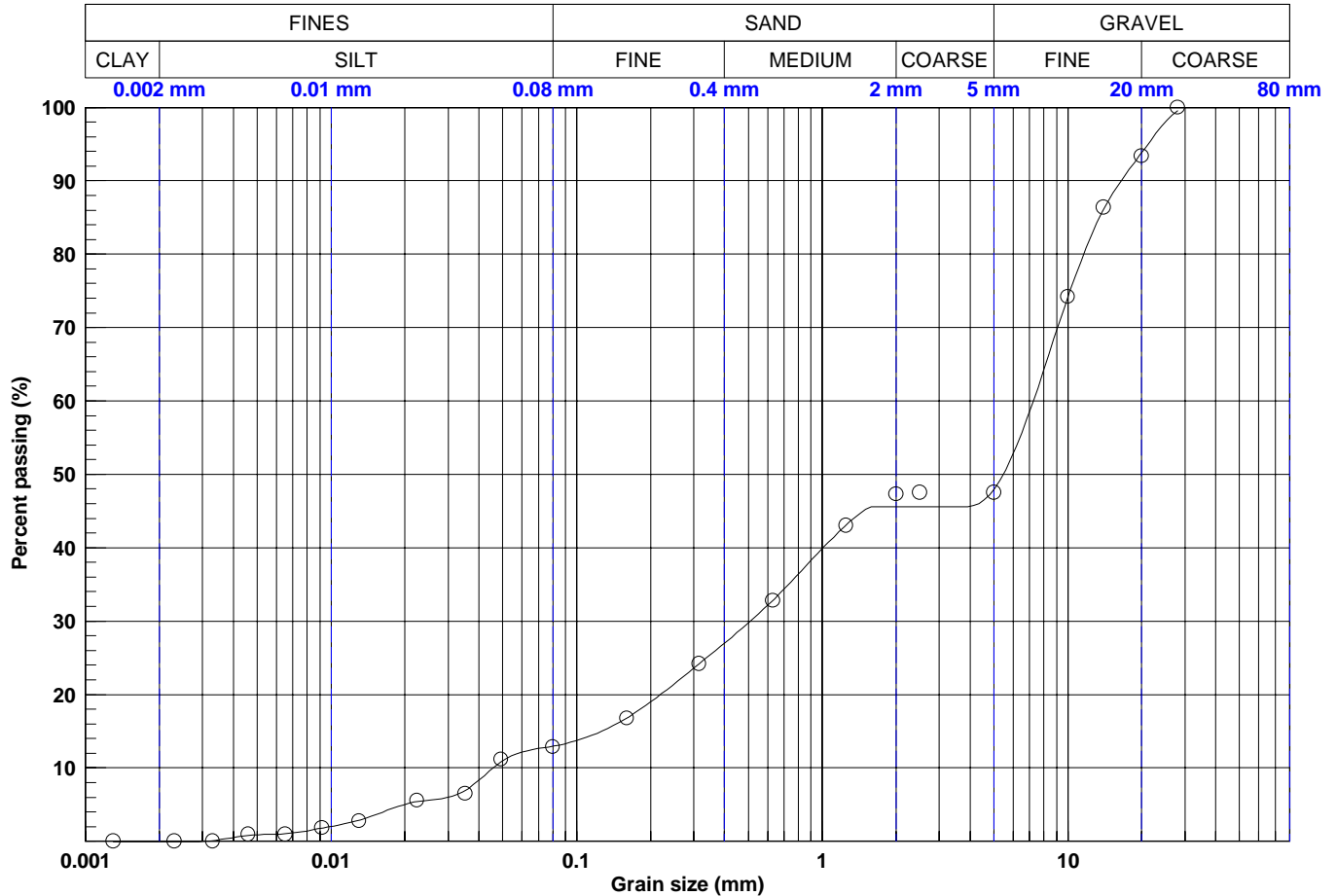
Project N°: **2257554002**

Client: **TROILUS GOLD CORPORATION**

Location plan N°: **-**

Location: **Troilus Mine, North of Chibougamau, Québec**

Date (start): **2023-09-29**



Legend	CLAY	SILT	SAND	GRAVEL
○	0.0	13.0	34.9	52.1

Legend	0.002 mm	0.08 mm	0.16 mm	0.315 mm	0.63 mm	1.25 mm	2.5 mm	5 mm	10 mm	14 mm	20 mm	28 mm	40 mm	56 mm	80 mm
○	0.00	12.95	16.79	24.19	32.84	43.05	45.55	47.90	74.11	86.08	93.81	99.54	100.00	100.00	100.00

Legend	Sounding	Sample	Depth (m)	Description	D10	D30	D60	Cu	Cc	USCS	w
○	TM-23-32	01	0.65 - 1.85	Silty gravel and sand.	0.046	0.510	7.237	-	-	-	0

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Prepared by: **Tim Lewyckj, tech.**

Date: **2023-11-13**

Checked by: **Eric Cardinal Tech. Sr.**

Date: **2024-01-08**

Production date: **2024-03-21**



Project name: **Troilus Feasibility Study**

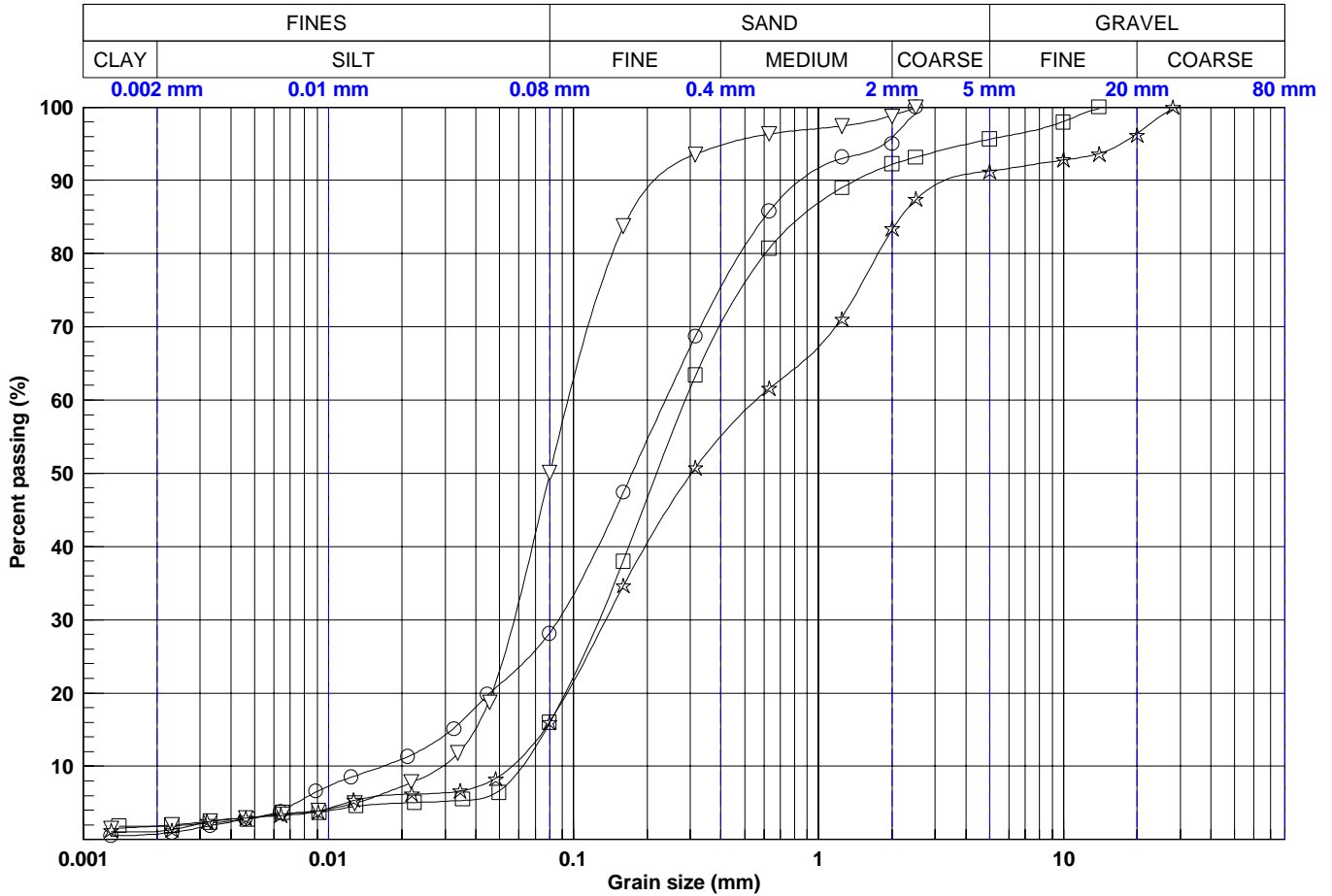
Project N°: **2257554002**

Client: **TROILUS GOLD CORPORATION**

Location plan N°: -

Location: **Troilus Mine, North of Chibougamau, Québec**

Date (start): **2023-09-28**



Legend	CLAY	SILT	SAND	GRAVEL
○	0.8	27.5	71.8	0.0
□	1.8	14.1	79.7	4.4
▽	1.8	48.1	50.1	0.0
☆	1.1	15.0	75.2	8.7

Legend	0.002 mm	0.08 mm	0.16 mm	0.315 mm	0.63 mm	1.25 mm	2.5 mm	5 mm	10 mm	14 mm	20 mm	28 mm	40 mm	56 mm	80 mm
○	0.75	28.21	47.38	68.69	85.78	93.01	99.15	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
□	1.79	15.91	38.01	63.30	80.67	89.00	93.16	95.62	98.04	99.83	100.00	100.00	100.00	100.00	100.00
▽	1.83	49.90	83.61	93.59	96.34	97.42	99.84	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
☆	1.10	16.05	34.63	50.74	61.56	71.31	87.40	91.28	92.78	93.68	96.37	99.70	100.00	100.00	100.00

Legend	Sounding	Sample	Depth (m)	Description	D10	D30	D60	Cu	Cc	USCS	w
○	TM-23-33	01	0.04 - 0.12	Silty sand.	0.017	0.087	0.237	-	-	-	24
□	TM-23-33	02	0.12 - 0.23	Silty sand, trace gravel and clay.	0.062	0.128	0.286	-	-	-	13
▽	TM-23-33	03	0.23 - 0.90	Sand and silt, trace clay.	0.029	0.057	0.095	-	-	-	23
☆	TM-23-33	04	0.90 - 2.15	Silty sand, some gravel, trace clay.	0.056	0.136	0.556	-	-	-	12

Prepared by: **Tim Lewyckj, tech.**

Date: **2023-11-13**

Checked by: **Eric Cardinal Tech. Sr.**

Date: **2024-01-08**

Production date: **2024-03-21**

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# GRAIN SIZE ANALYSIS

Sounding N°

TM-23-34

Project name: **Troilus Feasibility Study**

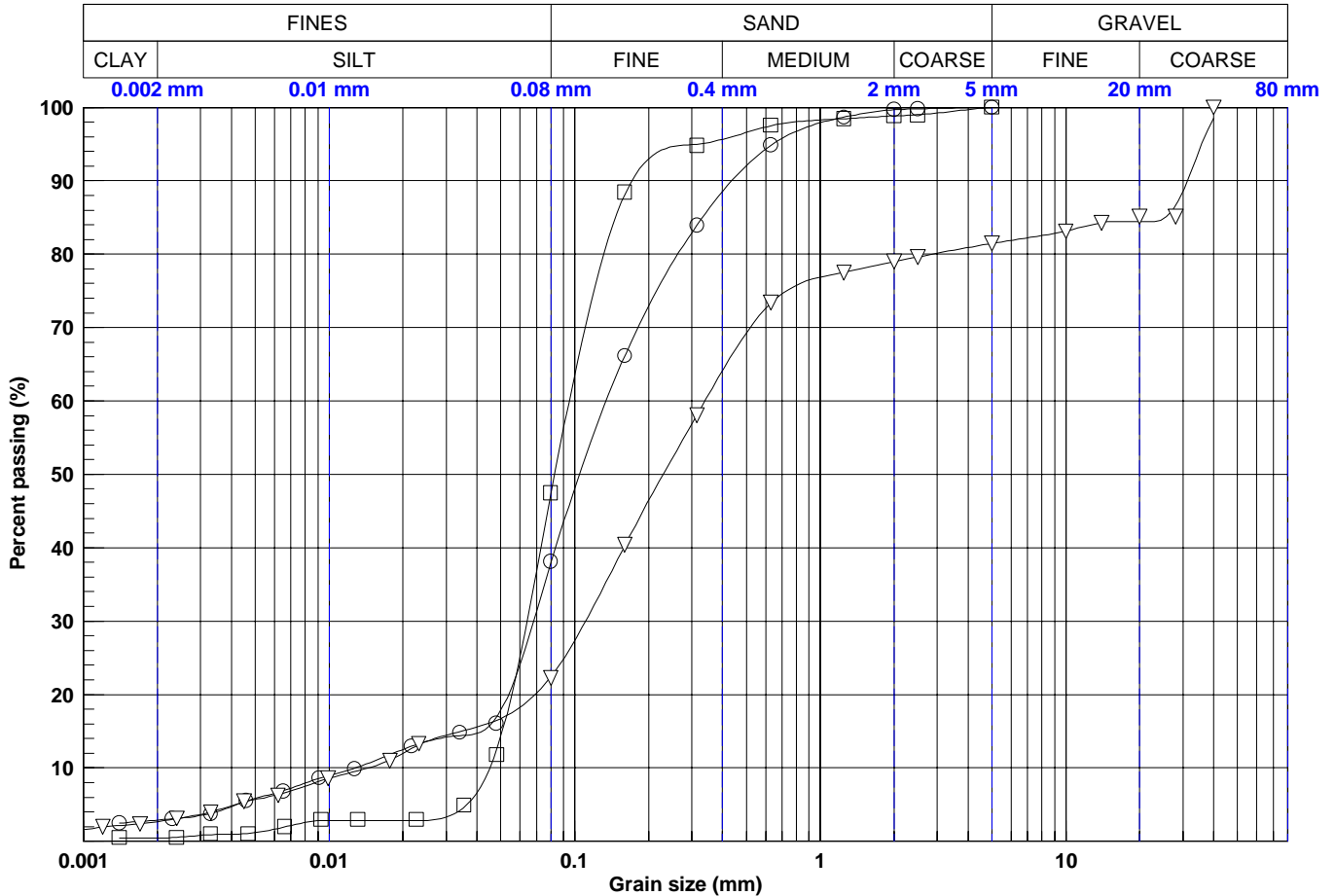
Project N°: **2257554002**

Client: **TROILUS GOLD CORPORATION**

Location plan N°: **-**

Location: **Troilus Mine, North of Chibougamau, Québec**

Date (start): **2023-09-28**



Legend	CLAY	SILT	SAND	GRAVEL
○	2.9	35.0	62.2	0.0
□	0.4	46.8	52.8	0.0
▽	2.7	19.7	59.1	18.5

Legend	0.002 mm	0.08 mm	0.16 mm	0.315 mm	0.63 mm	1.25 mm	2.5 mm	5 mm	10 mm	14 mm	20 mm	28 mm	40 mm	56 mm	80 mm
○	2.88	37.84	66.12	83.97	94.81	98.68	99.79	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
□	0.43	47.20	88.11	94.98	97.49	98.45	99.00	99.98	100.00	100.00	100.00	100.00	100.00	100.00	100.00
▽	2.69	22.38	40.31	58.10	73.31	77.53	79.61	81.46	83.17	84.27	84.42	86.64	98.55	100.00	100.00

Legend	Sounding	Sample	Depth (m)	Description	D10	D30	D60	Cu	Cc	USCS	w
○	TM-23-34	01	0.00 - 0.40	Silty sand, trace clay.	0.013	0.068	0.134	-	-	-	35
□	TM-23-34	02	0.40 - 1.50	Sand and silt.	0.045	0.064	0.095	-	-	-	26
▽	TM-23-34	03	1.50 - 2.70	Gravelly silty sand, trace clay.	0.014	0.111	0.339	-	-	-	13

Prepared by: **Tim Lewyckj, tech.**

Date: **2023-11-13**

Checked by: **Eric Cardinal Tech. Sr.**

Date: **2024-01-08**

Production date: **2024-03-21**

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# GRAIN SIZE ANALYSIS

Sounding N°

TM-23-35

Project name: **Troilus Feasibility Study**

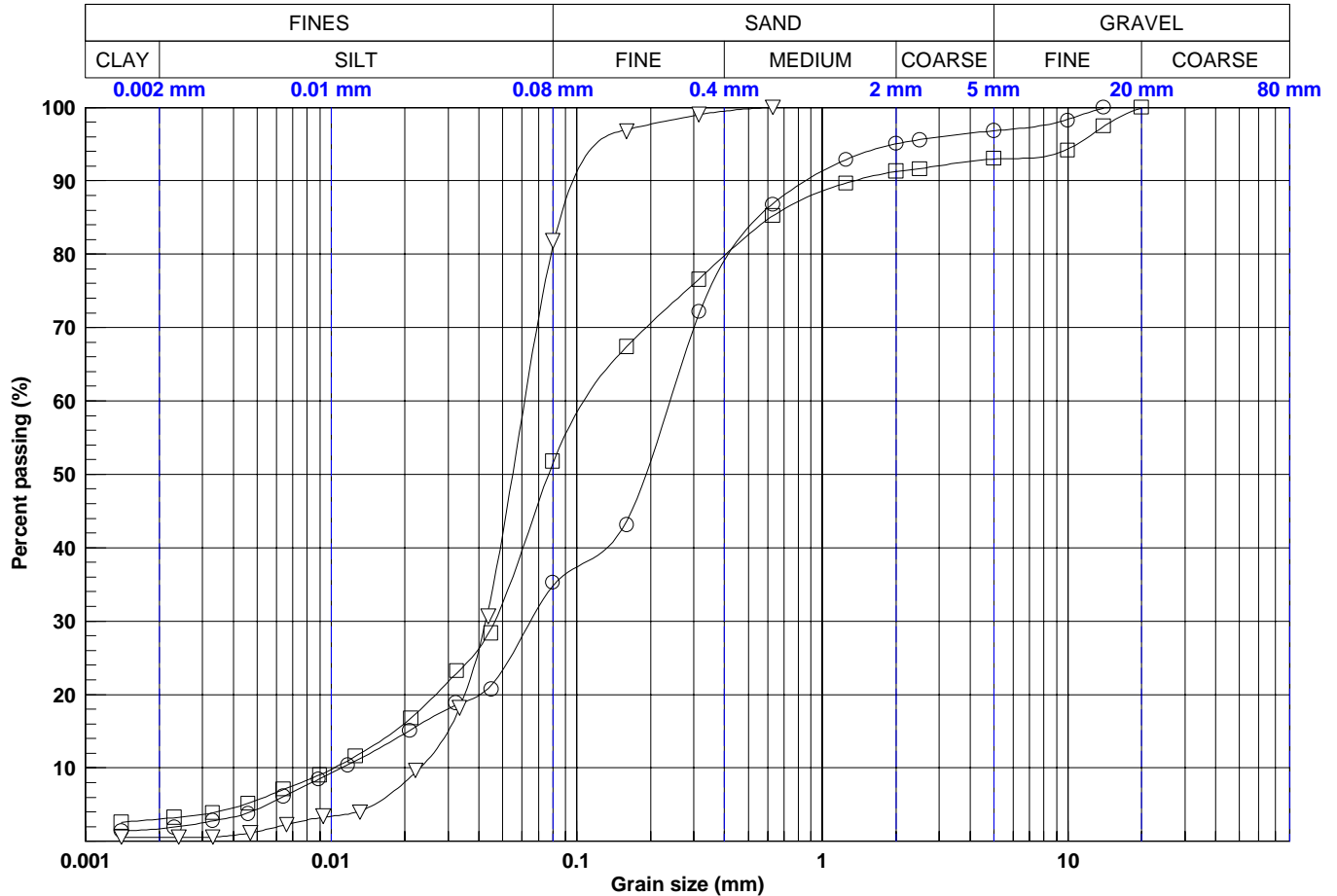
Project N°: **2257554002**

Client: **TROILUS GOLD CORPORATION**

Location plan N°: -

Location: **Troilus Mine, North of Chibougamau, Québec**

Date (start): **2023-09-28**



Legend	CLAY	SILT	SAND	GRAVEL
○	1.7	33.1	62.0	3.2
□	3.0	48.4	41.5	7.0
▽	0.5	80.4	19.0	0.0

Legend	0.002 mm	0.08 mm	0.16 mm	0.315 mm	0.63 mm	1.25 mm	2.5 mm	5 mm	10 mm	14 mm	20 mm	28 mm	40 mm	56 mm	80 mm
○	1.70	34.77	43.60	71.84	86.85	92.87	95.60	96.81	98.35	99.85	100.00	100.00	100.00	100.00	100.00
□	3.02	51.46	67.41	76.60	85.21	89.68	91.67	92.97	94.31	97.39	99.87	100.00	100.00	100.00	100.00
▽	0.53	80.98	96.97	99.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

Legend	Sounding	Sample	Depth (m)	Description	D10	D30	D60	Cu	Cc	USCS	w
○	TM-23-35	01	0.00 - 0.10	Silty sand, trace gravel and clay.	0.011	0.065	0.240	-	-	-	24
□	TM-23-35	02	0.10 - 0.35	Silt and sand, some gravel, trace clay.	0.010	0.046	0.107	-	-	-	34
▽	TM-23-35	03	0.35 - 0.80	Sandy silt.	0.023	0.043	0.061	-	-	-	29

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Prepared by: **Tim Lewyckj, tech.**

Date: **2023-11-13**

Checked by: **Eric Cardinal Tech. Sr.**

Date: **2024-01-08**

Production date: **2024-03-21**



# GRAIN SIZE ANALYSIS

Sounding N°

TM-23-37

Project name: **Troilus Feasibility Study**

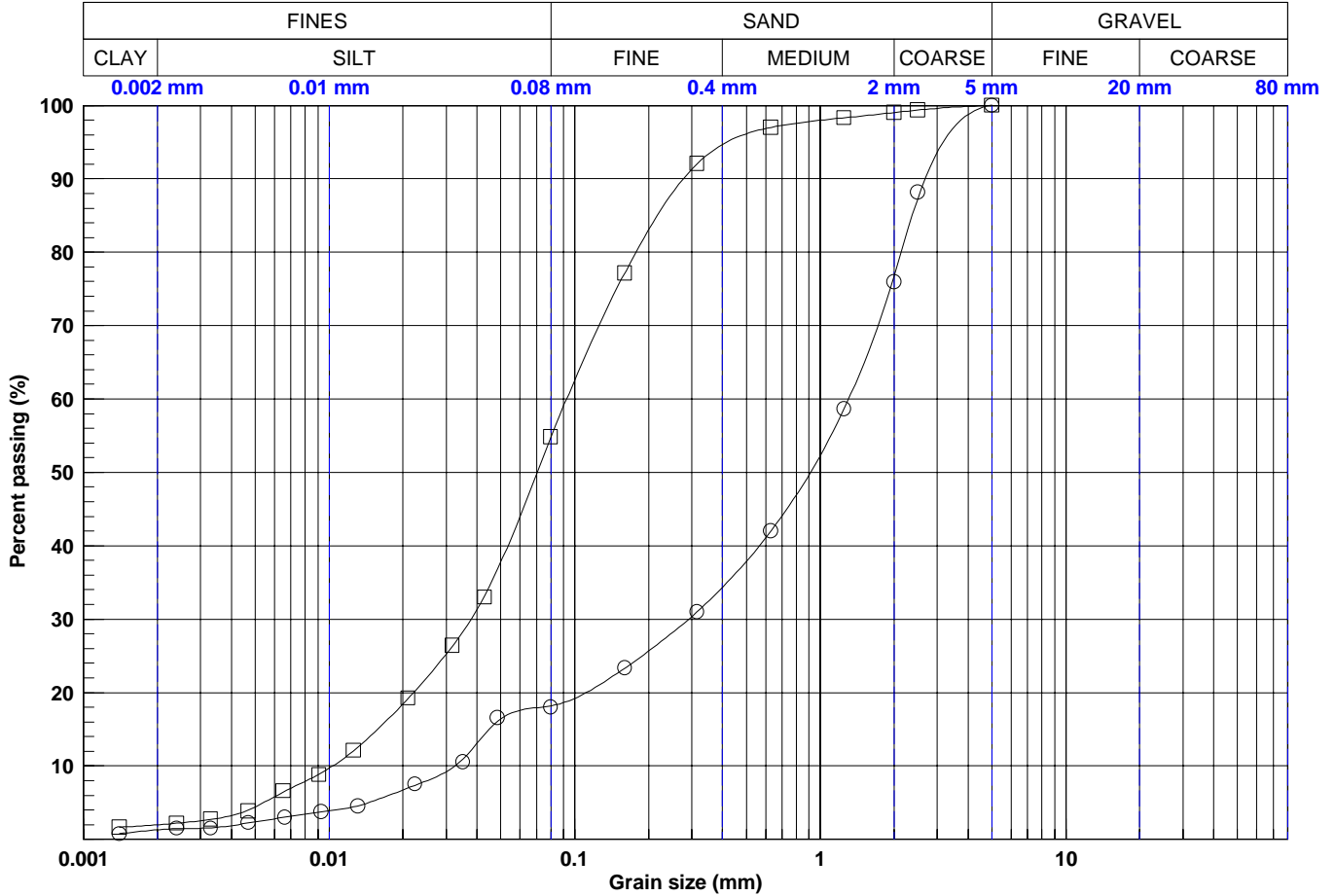
Project N°: **2257554002**

Client: **TROILUS GOLD CORPORATION**

Location plan N°: **-**

Location: **Troilus Mine, North of Chibougamau, Québec**

Date (start): **2023-09-29**



Legend	CLAY	SILT	SAND	GRAVEL
○	1.3	16.9	81.8	0.0
□	2.0	52.7	45.3	0.0

Legend	0.002 mm	0.08 mm	0.16 mm	0.315 mm	0.63 mm	1.25 mm	2.5 mm	5 mm	10 mm	14 mm	20 mm	28 mm	40 mm	56 mm	80 mm
○	1.30	18.17	23.32	31.01	42.00	58.63	87.39	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
□	1.98	54.72	77.15	92.02	97.00	98.32	99.37	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

Legend	Sounding	Sample	Depth (m)	Description	D10	D30	D60	Cu	Cc	USCS	w
○	TM-23-37	01	0.20 - 1.10	Silty sand, trace clay.	0.033	0.291	1.306	-	-	-	479
□	TM-23-37	02	1.10 - 2.70	Silt and sand, trace clay.	0.010	0.038	0.093	-	-	-	12

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Prepared by: **Tim Lewyckj, tech.**

Date: **2023-11-13**

Checked by: **Eric Cardinal Tech. Sr.**

Date: **2024-01-08**

Production date: **2024-03-21**



# GRAIN SIZE ANALYSIS

Sounding N°

TM-23-54

Project name: **Troilus Feasibility Study**

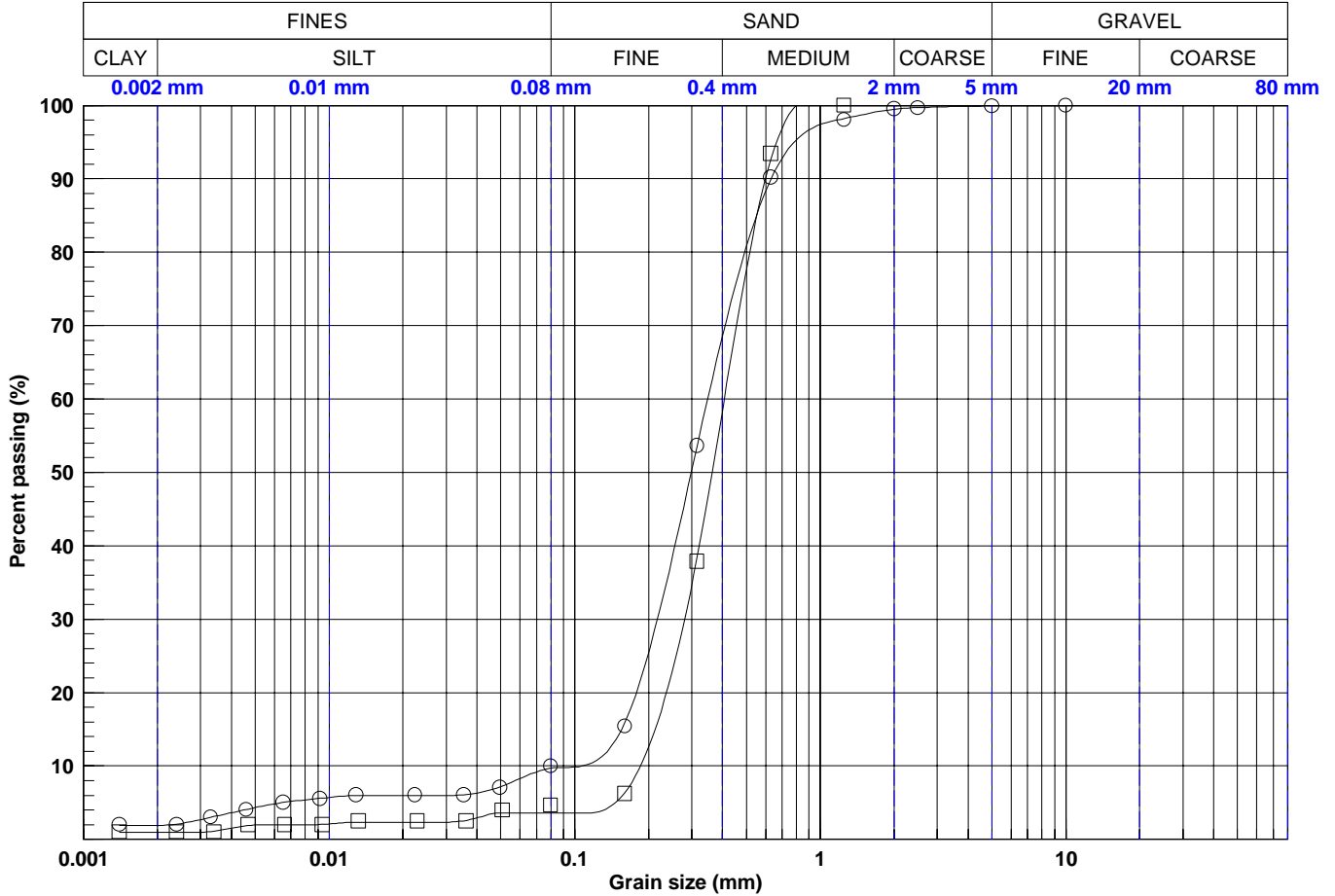
Project N°: **2257554002**

Client: **TROILUS GOLD CORPORATION**

Location plan N°: **-**

Location: **Troilus Mine, North of Chibougamau, Québec**

Date (start): **2023-09-27**



Legend	CLAY	SILT	SAND	GRAVEL
○	1.9	7.8	90.3	0.1
□	0.9	2.6	96.4	0.0

Legend	0.002 mm	0.08 mm	0.16 mm	0.315 mm	0.63 mm	1.25 mm	2.5 mm	5 mm	10 mm	14 mm	20 mm	28 mm	40 mm	56 mm	80 mm
○	1.87	9.68	15.84	53.58	89.97	98.20	99.70	99.93	100.00	100.00	100.00	100.00	100.00	100.00	100.00
□	0.94	3.58	6.33	38.29	92.73	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

Legend	Sounding	Sample	Depth (m)	Description	D10	D30	D60	Cu	Cc	USCS	w
○	TM-23-54	02	0.15 - 0.60	Sand, some silt, trace clay.	0.108	0.217	0.348	-	-	-	7
□	TM-23-54	03	0.60 - 3.00	Sand, trace silt and clay.	0.186	0.281	0.407	-	-	-	3

Prepared by: **Tim Lewyckyj, tech.**

Date: **2023-11-13**

Checked by: **Eric Cardinal Tech. Sr.**

Date: **2024-01-08**

Production date: **2024-03-21**

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# GRAIN SIZE ANALYSIS

Sounding N°

TM-23-55

Project name: Troilus Feasibility Study

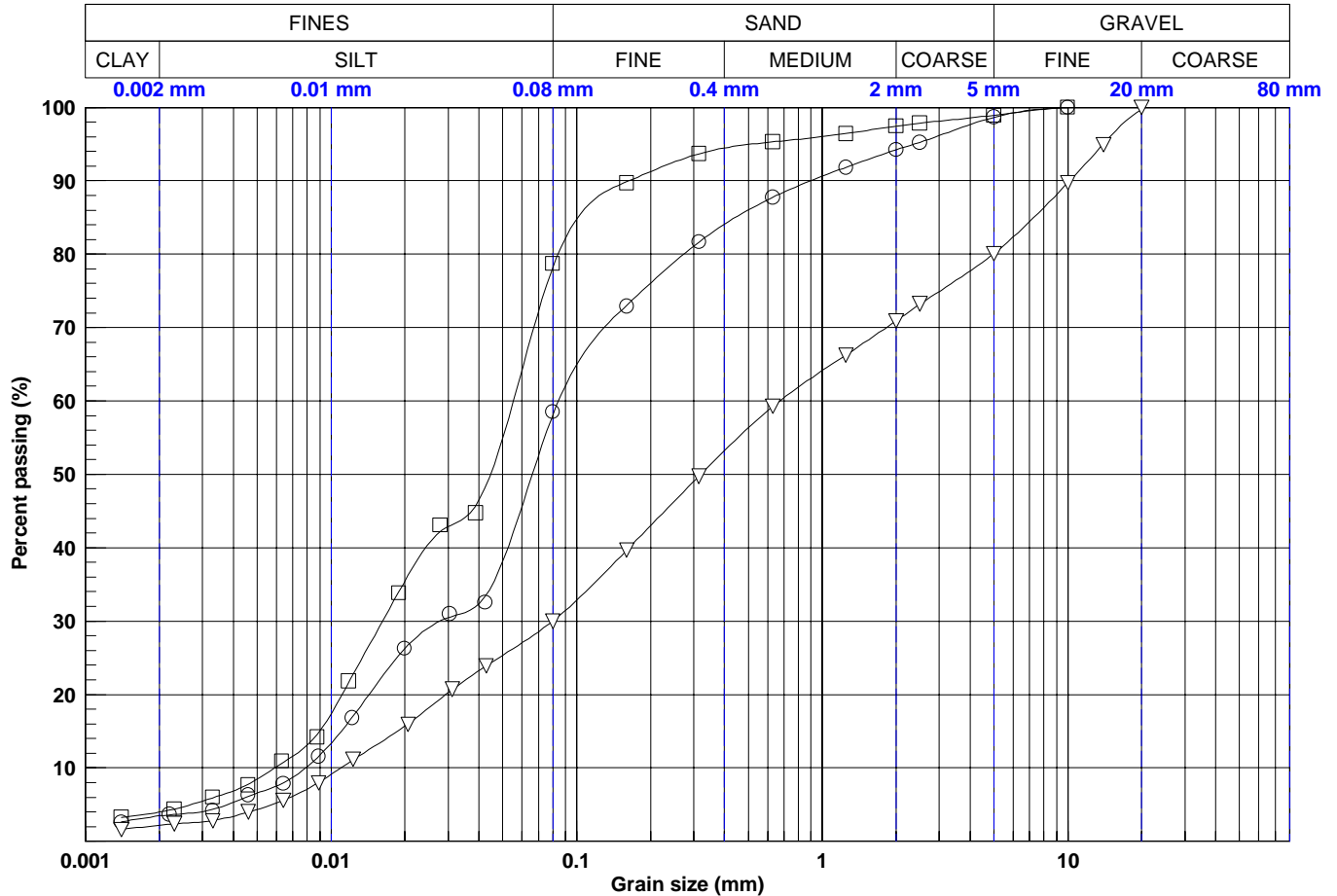
Project N°: 2257554002

Client: TROILUS GOLD CORPORATION

Location plan N°: -

Location: Troilus Mine, North of Chibougamau, Québec

Date (start): 2023-09-29



Legend	CLAY	SILT	SAND	GRAVEL
○	3.5	54.6	40.5	1.4
□	4.0	74.2	20.7	1.1
▽	2.2	27.8	50.1	19.9

Legend	0.002 mm	0.08 mm	0.16 mm	0.315 mm	0.63 mm	1.25 mm	2.5 mm	5 mm	10 mm	14 mm	20 mm	28 mm	40 mm	56 mm	80 mm
○	3.46	58.10	73.03	81.66	87.74	91.83	95.24	98.65	99.99	100.00	100.00	100.00	100.00	100.00	100.00
□	3.98	78.20	89.87	93.68	95.29	96.43	97.85	98.92	99.98	100.00	100.00	100.00	100.00	100.00	100.00
▽	2.18	30.01	39.67	49.75	59.25	66.27	73.19	80.08	89.74	95.05	99.69	100.00	100.00	100.00	100.00

Legend	Sounding	Sample	Depth (m)	Description	D10	D30	D60	Cu	Cc	USCS	w
○	TM-23-55	01	0.00 - 0.04	Silt and sand, trace clay and gravel.	0.008	0.028	0.084	-	-	-	10
□	TM-23-55	02	0.04 - 0.45	Sandy silt, trace clay and gravel.	0.006	0.016	0.055	-	-	-	34
▽	TM-23-55	03	0.45 - 0.85	Gravelly silty sand, trace clay.	0.011	0.080	0.672	-	-	-	10

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Prepared by: Tim Lewyckj, tech.

Date: 2023-11-14

Checked by: Eric Cardinal Tech. Sr.

Date: 2024-01-08

Production date: 2024-03-21



# GRAIN SIZE ANALYSIS

Sounding N°

TM-23-57

Project name: **Troilus Feasibility Study**

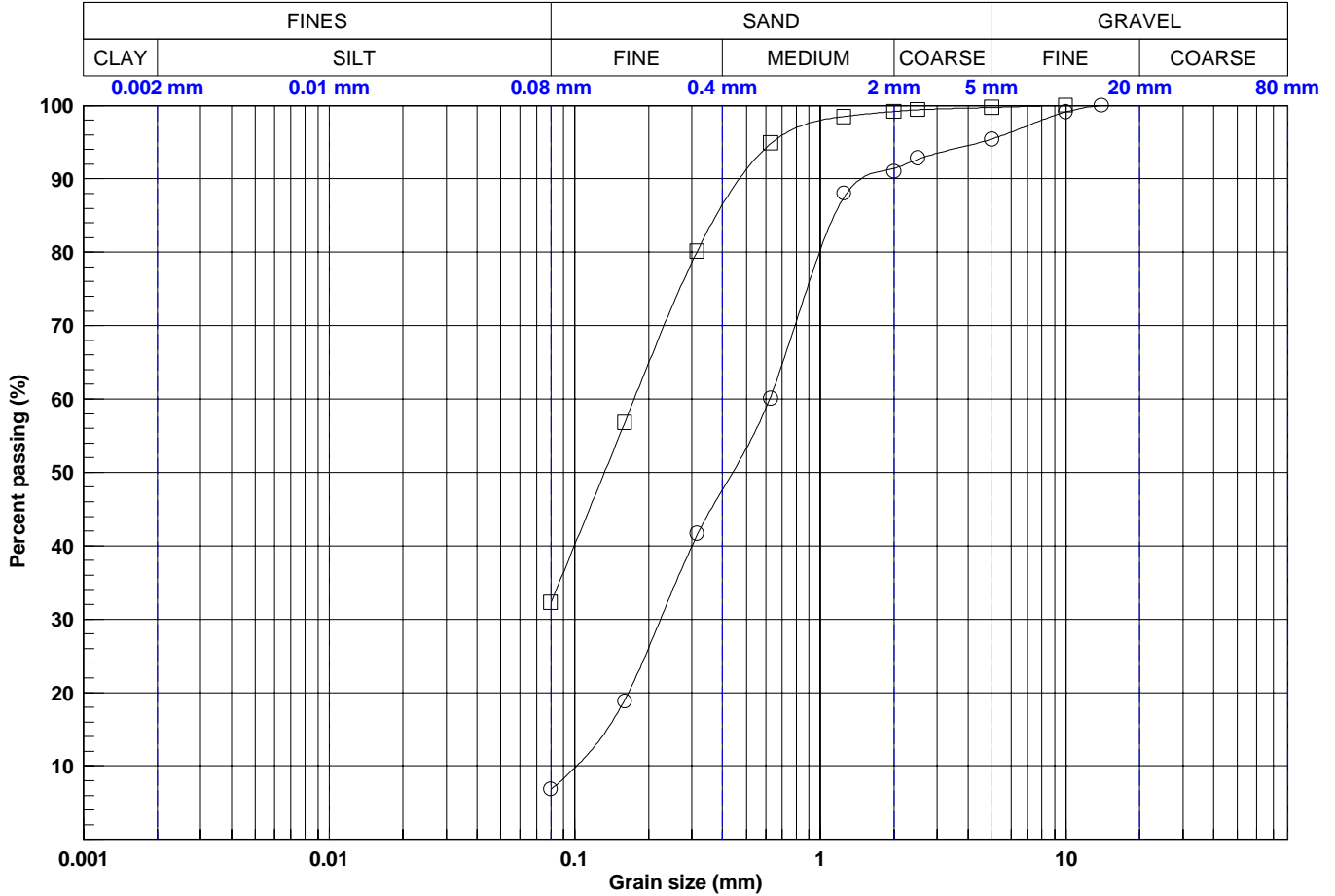
Project N°: **2257554002**

Client: **TROILUS GOLD CORPORATION**

Location plan N°: -

Location: **Troilus Mine, North of Chibougamau, Québec**

Date (start): **2023-09-27**



Legend	CLAY	SILT	SAND	GRAVEL
○	-	6.8	88.6	4.6
□	-	32.3	67.5	0.3

Legend	0.002 mm	0.08 mm	0.16 mm	0.315 mm	0.63 mm	1.25 mm	2.5 mm	5 mm	10 mm	14 mm	20 mm	28 mm	40 mm	56 mm	80 mm
○	-	6.78	19.01	41.43	60.49	87.50	92.65	95.42	99.11	99.97	100.00	100.00	100.00	100.00	100.00
□	-	32.25	56.80	80.07	94.81	98.49	99.39	99.71	99.99	100.00	100.00	100.00	100.00	100.00	100.00

Legend	Sounding	Sample	Depth (m)	Description	D10	D30	D60	Cu	Cc	USCS	w
○	TM-23-57	01	0.10 - 0.70	Sand, some silt, trace gravel.	0.102	0.224	0.622	-	-	-	21
□	TM-23-57	02	0.70 - 1.60	Silty sand.	-	-	0.175	-	-	-	33

Y:\geotec\_80\style\lab2\_EN\GL\SHIWSP\_EN\_Lab\_GSA&HYD.sty

Prepared by: **Tim Lewyckj, tech.**

Date: **2023-11-14**

Checked by: **Eric Cardinal Tech. Sr.**

Date: **2024-01-08**

Production date: **2024-03-21**



# GRAIN SIZE ANALYSIS

Sounding N°

TM-23-58

Project name: **Troilus Feasibility Study**

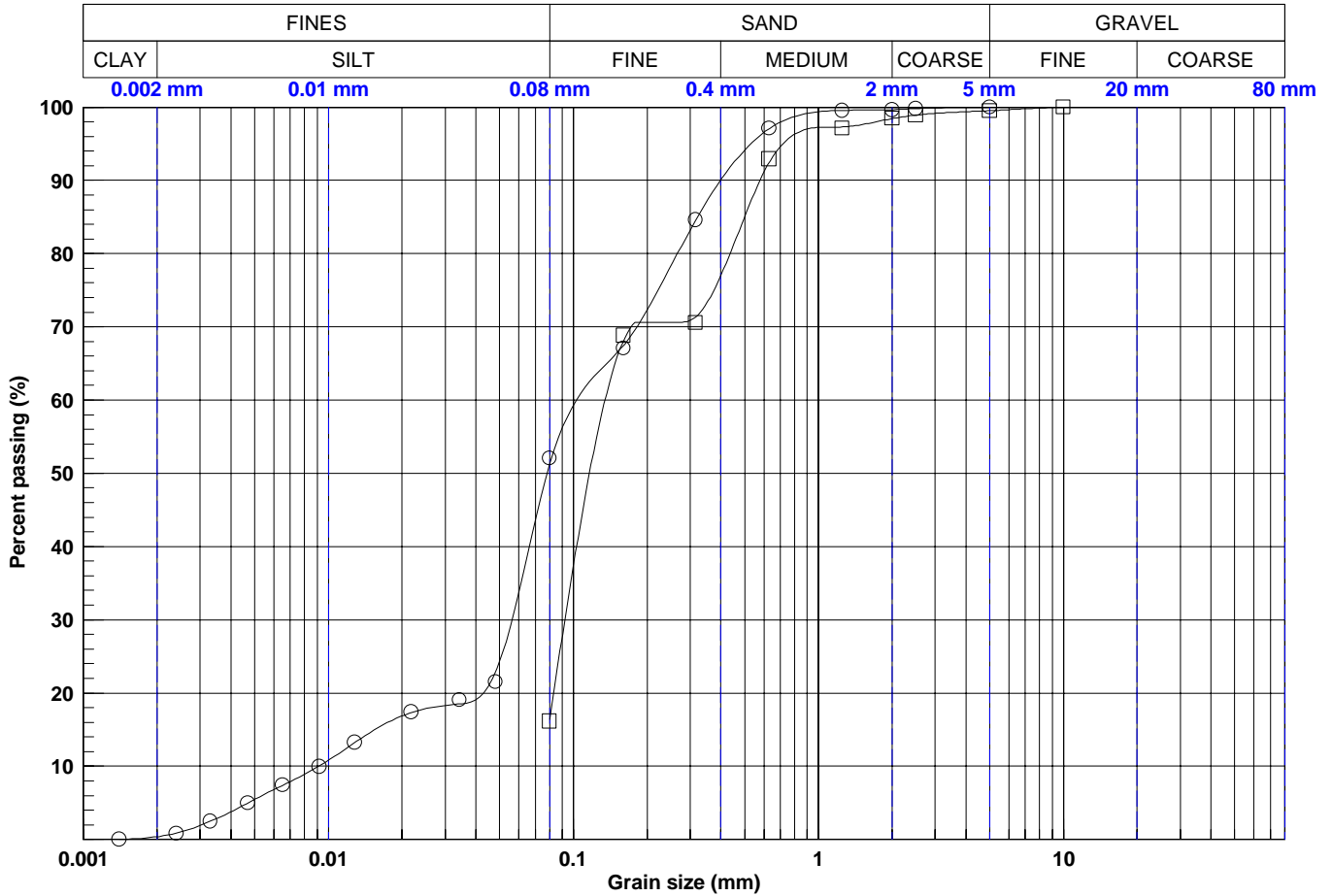
Project N°: **2257554002**

Client: **TROILUS GOLD CORPORATION**

Location plan N°: **-**

Location: **Troilus Mine, North of Chibougamau, Québec**

Date (start): **2023-09-27**



Legend	CLAY	SILT	SAND	GRAVEL
○	0.4	50.8	48.9	0.0
□	-	16.4	83.1	0.5

Legend	0.002 mm	0.08 mm	0.16 mm	0.315 mm	0.63 mm	1.25 mm	2.5 mm	5 mm	10 mm	14 mm	20 mm	28 mm	40 mm	56 mm	80 mm
○	0.37	51.13	67.43	84.52	97.06	99.56	99.79	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
□	-	16.41	68.08	71.32	92.44	97.29	98.91	99.52	99.99	100.00	100.00	100.00	100.00	100.00	100.00

Legend	Sounding	Sample	Depth (m)	Description	D10	D30	D60	Cu	Cc	USCS	w
○	TM-23-58	01	0.60 - 0.90	Silt and sand.	0.009	0.056	0.103	-	-	-	92
□	TM-23-58	02	0.90 - 3.00	Silty sand.	-	0.092	0.135	-	-	-	20

Prepared by: **Timothy Lewyckj, Tech.**

Date: **2024-01-25**

Checked by: **Eric Cadinal, Tech. Sr.**

Date: **2024-01-25**

Production date: **2024-03-21**

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Consultant:



Client:



# GRAIN SIZE ANALYSIS

Sounding N°

TM-23-87

Project name: **Troilus Feasibility Study**

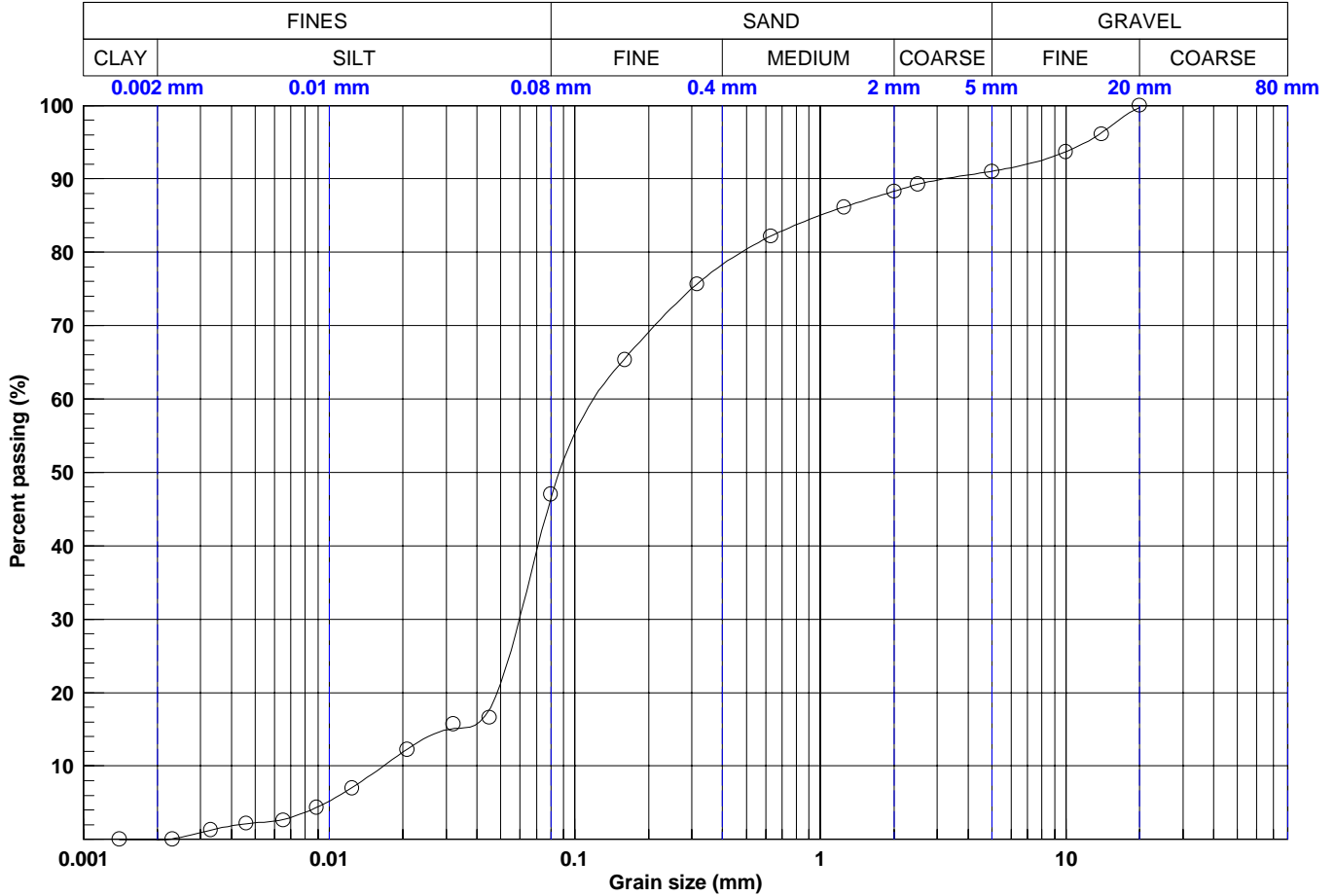
Project N°: **2257554002**

Client: **TROILUS GOLD CORPORATION**

Location plan N°: **-**

Location: **Troilus Mine, North of Chibougamau, Québec**

Date (start): **2023-09-28**



Legend	CLAY	SILT	SAND	GRAVEL
○	0.0	46.4	44.6	9.0

Legend	0.002 mm	0.08 mm	0.16 mm	0.315 mm	0.63 mm	1.25 mm	2.5 mm	5 mm	10 mm	14 mm	20 mm	28 mm	40 mm	56 mm	80 mm
○	0.00	46.41	65.50	75.65	82.19	86.15	89.25	91.02	93.68	96.29	99.71	100.00	100.00	100.00	100.00

Legend	Sounding	Sample	Depth (m)	Description	D10	D30	D60	Cu	Cc	USCS	w
○	TM-23-87	01	0.10 - 0.13	Silt and sand, some gravel.	0.017	0.060	0.119	-	-	-	42

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Prepared by: **Tim Lewyckj, tech.**

Date: **2023-11-14**

Checked by: **Eric Cardinal Tech. Sr.**

Date: **2024-01-08**

Production date: **2024-03-21**

Consultant:



Client:



# GRAIN SIZE ANALYSIS

Sounding N°

TP-23-90

Project name: **Troilus Feasibility Study**

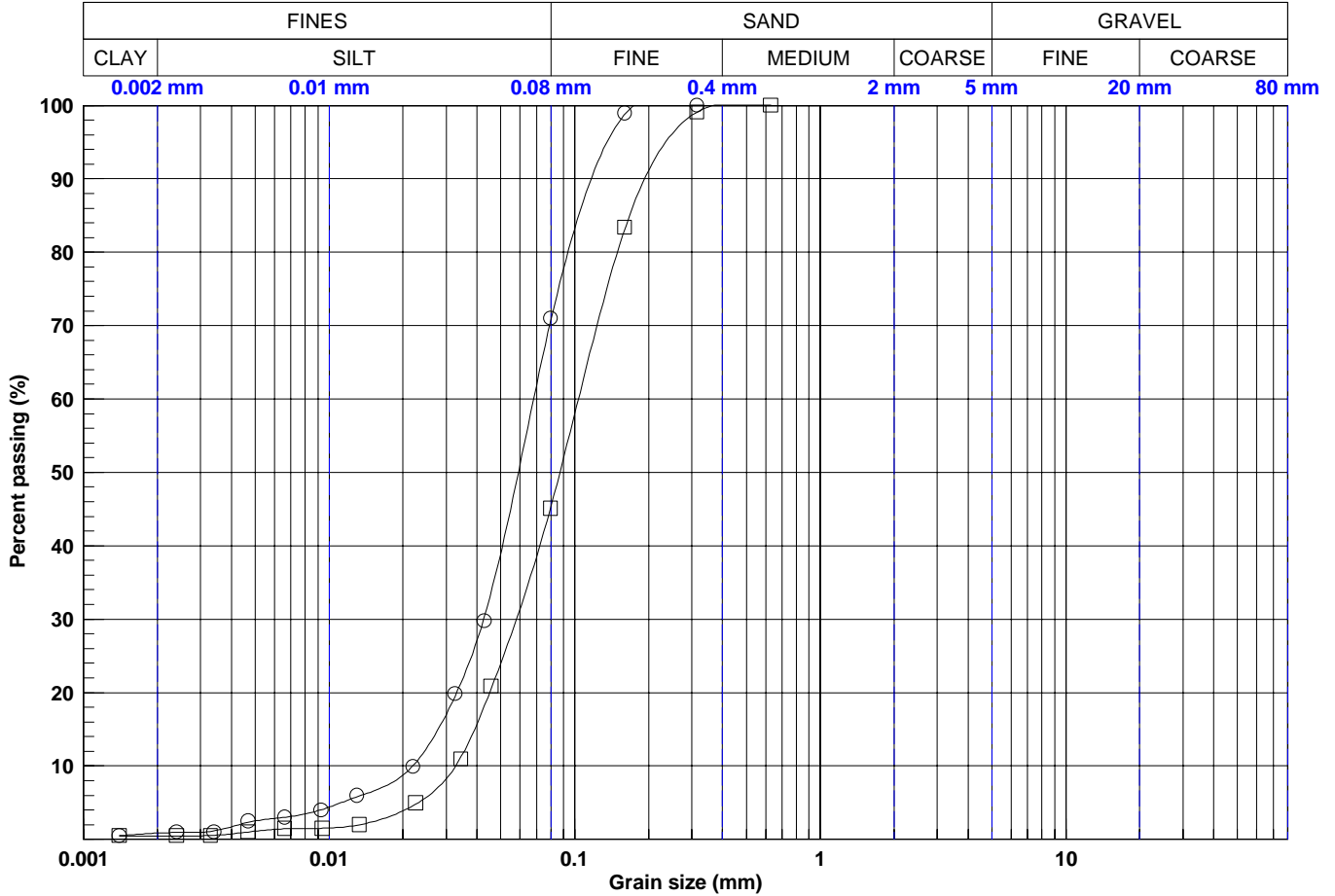
Project N°: **2257554002**

Client: **TROILUS GOLD CORPORATION**

Location plan N°: **-**

Location: **Troilus Mine, North of Chibougamau, Québec**

Date (start): **2023-09-07**



Consultant:



Client:



# GRAIN SIZE ANALYSIS

Sounding N°

TP-23-91

Project name: **Troilus Feasibility Study**

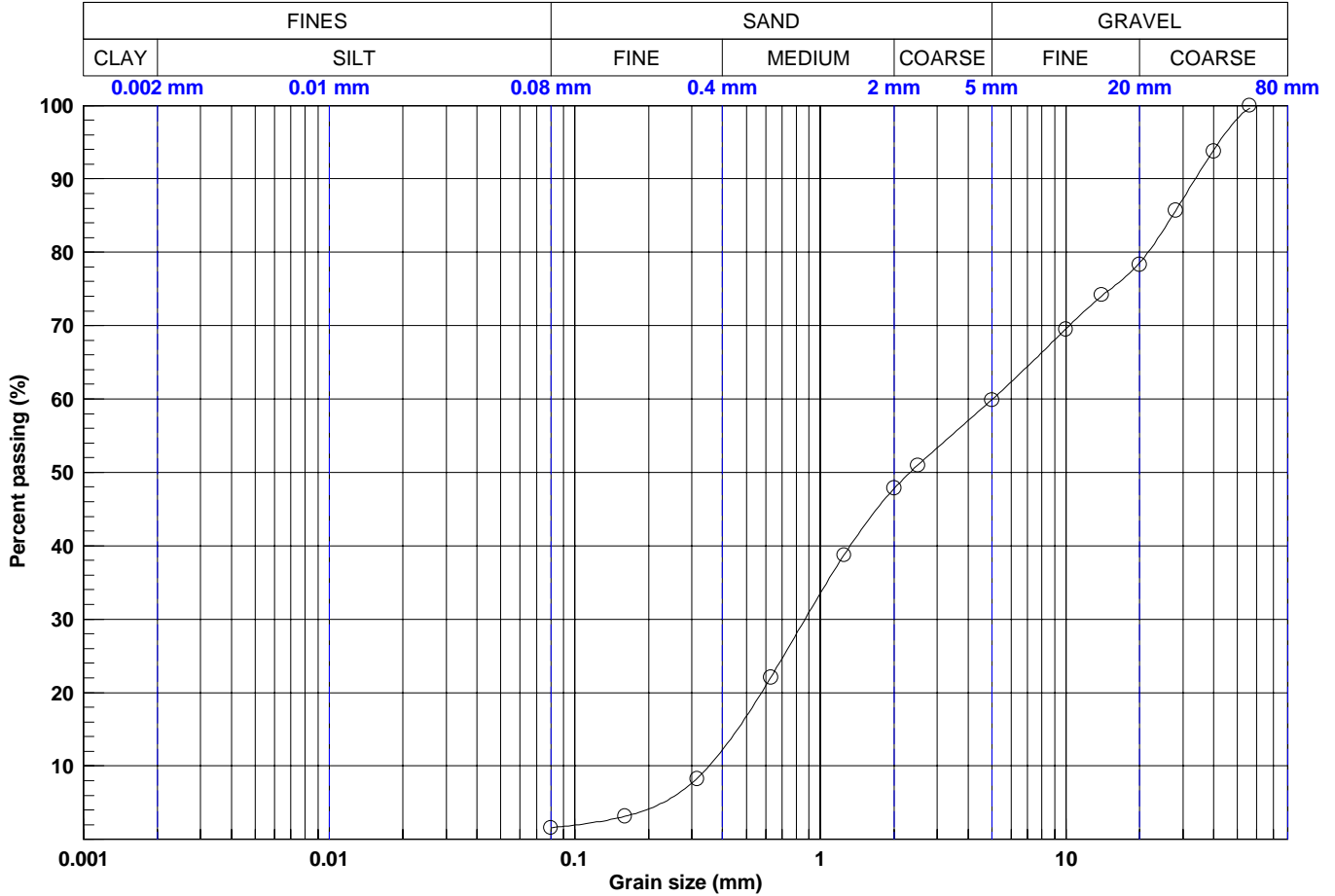
Project N°: **2257554002**

Client: **TROILUS GOLD CORPORATION**

Location plan N°: **-**

Location: **Troilus Mine, North of Chibougamau, Québec**

Date (start): **2023-09-06**



Legend	CLAY	SILT	SAND	GRAVEL
○	-	1.6	58.3	40.1

Legend	0.002 mm	0.08 mm	0.16 mm	0.315 mm	0.63 mm	1.25 mm	2.5 mm	5 mm	10 mm	14 mm	20 mm	28 mm	40 mm	56 mm	80 mm
○	-	1.58	3.13	8.31	22.10	38.74	51.00	59.89	69.53	74.03	78.58	85.65	93.90	99.65	100.00

Legend	Sounding	Sample	Depth (m)	Description	D10	D30	D60	Cu	Cc	USCS	w
○	TP-23-91	02	0.80 - 4.50	Sand and gravel, trace silt.	0.353	0.867	5.042	-	-	-	5

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Prepared by: **Tim Lewyckj, tech.**

Date: **2023-11-10**

Checked by: **Eric Cardinal Tech. Sr.**

Date: **2024-01-08**

Production date: **2024-03-21**



# GRAIN SIZE ANALYSIS

Sounding N°

TP-23-92

Project name: **Troilus Feasibility Study**

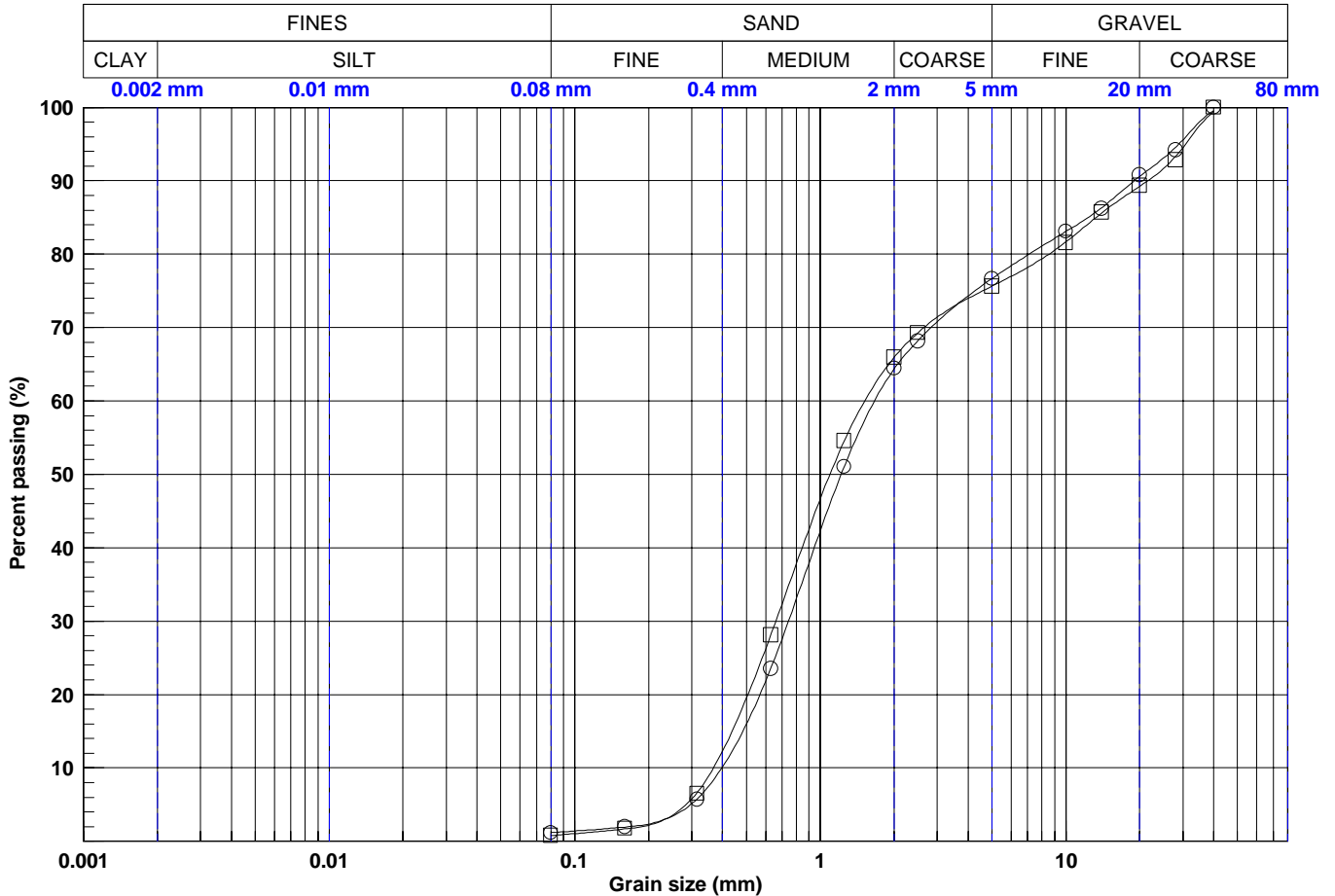
Project N°: **2257554002**

Client: **TROILUS GOLD CORPORATION**

Location plan N°: **-**

Location: **Troilus Mine, North of Chibougamau, Québec**

Date (start): **2023-09-06**



Legend	CLAY	SILT	SAND	GRAVEL
○	-	1.2	75.5	23.3
□	-	0.8	74.8	24.4

Legend	0.002 mm	0.08 mm	0.16 mm	0.315 mm	0.63 mm	1.25 mm	2.5 mm	5 mm	10 mm	14 mm	20 mm	28 mm	40 mm	56 mm	80 mm
○	-	1.17	1.93	5.76	23.61	50.97	68.23	76.67	83.08	86.31	90.61	94.55	99.55	100.00	100.00
□	-	0.78	1.69	6.63	28.14	54.48	69.31	75.62	81.64	85.61	89.25	93.31	99.43	100.00	100.00

Legend	Sounding	Sample	Depth (m)	Description	D10	D30	D60	Cu	Cc	USCS	w
○	TP-23-92	02	1.00 - 2.00	Gravelly sand, trace silt.	0.398	0.743	1.665	-	-	-	4
□	TP-23-92	03	2.00 - 5.00	Gravelly sand.	0.367	0.660	1.517	-	-	-	9

Prepared by: **Tim Lewyckj, tech.**

Date: **2023-11-10**

Checked by: **Eric Cardinal Tech. Sr.**

Date: **2024-01-08**

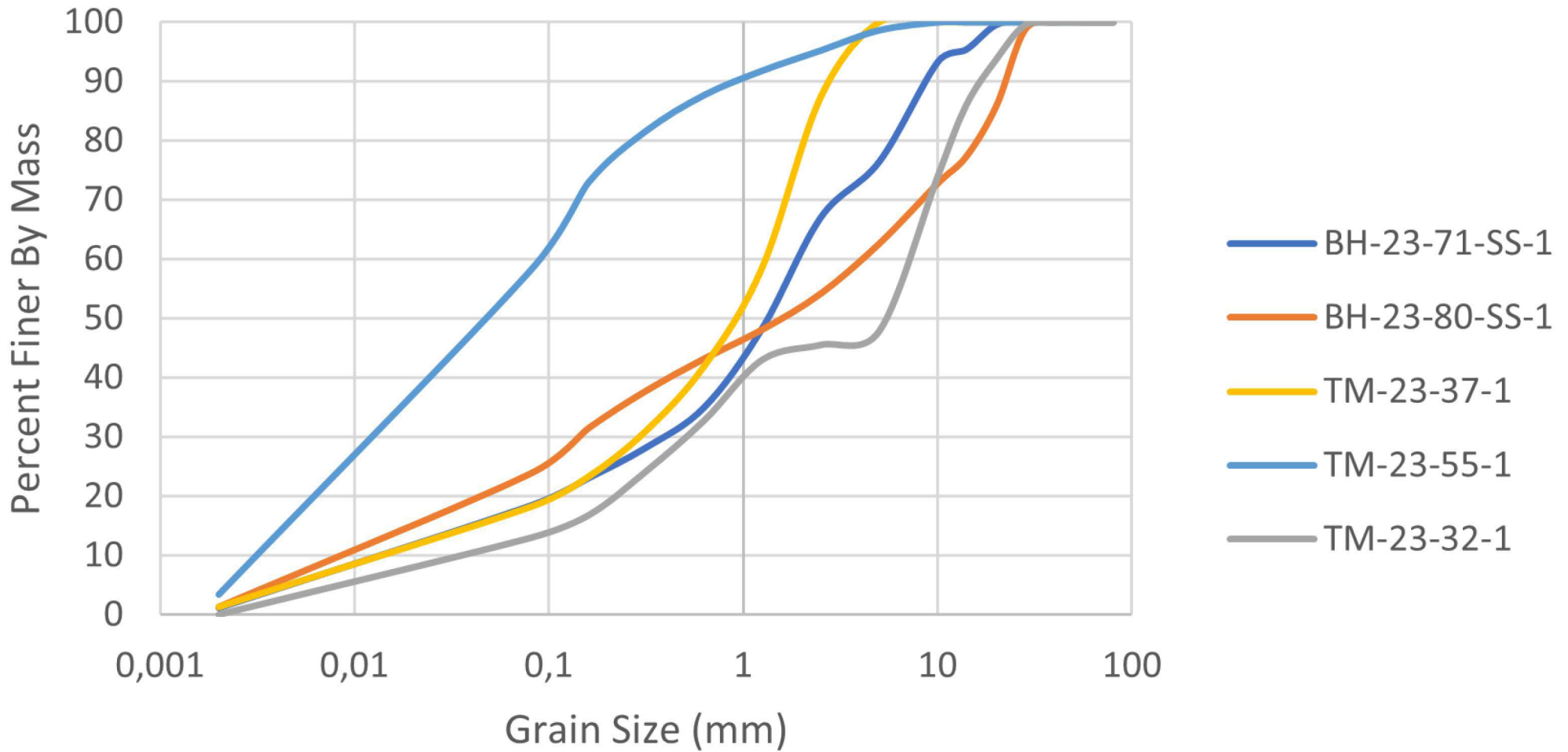
Production date: **2024-03-21**

**APPENDIX D**

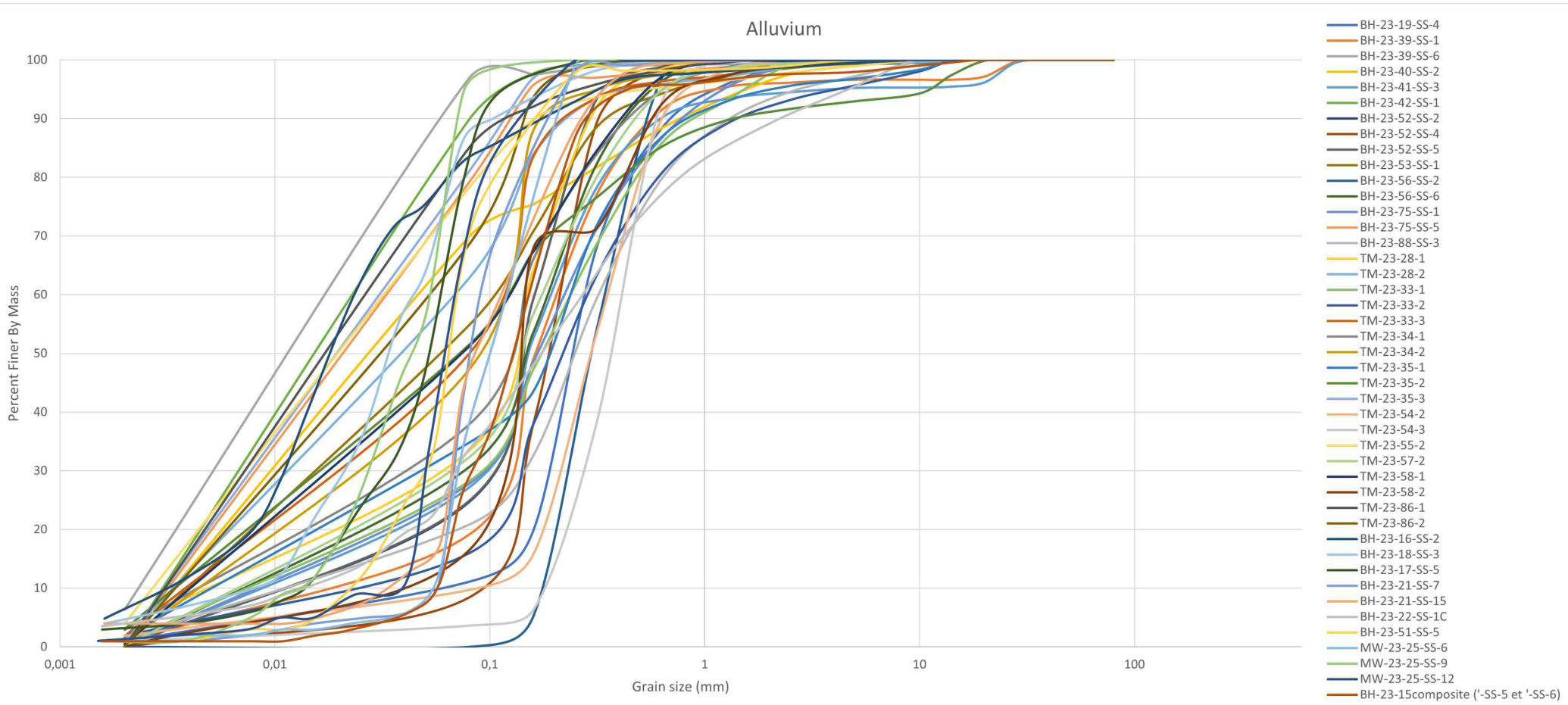
**Soil Grain Size Distribution per  
Stratigraphical Unit**



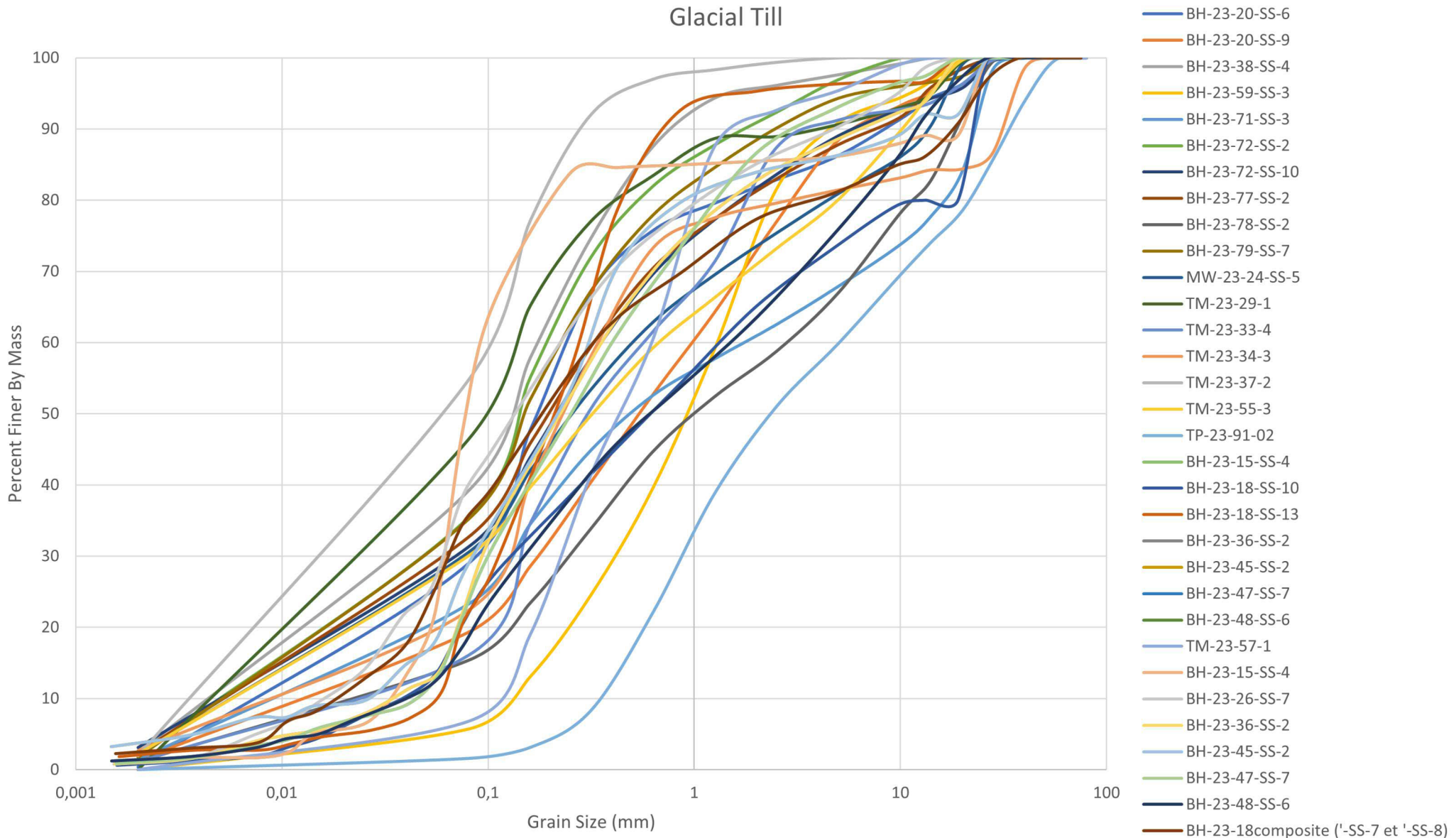
# Organic Silt and Peat



Graph D1 - Compilation of grain size analysis results for organic silt and peat soil.



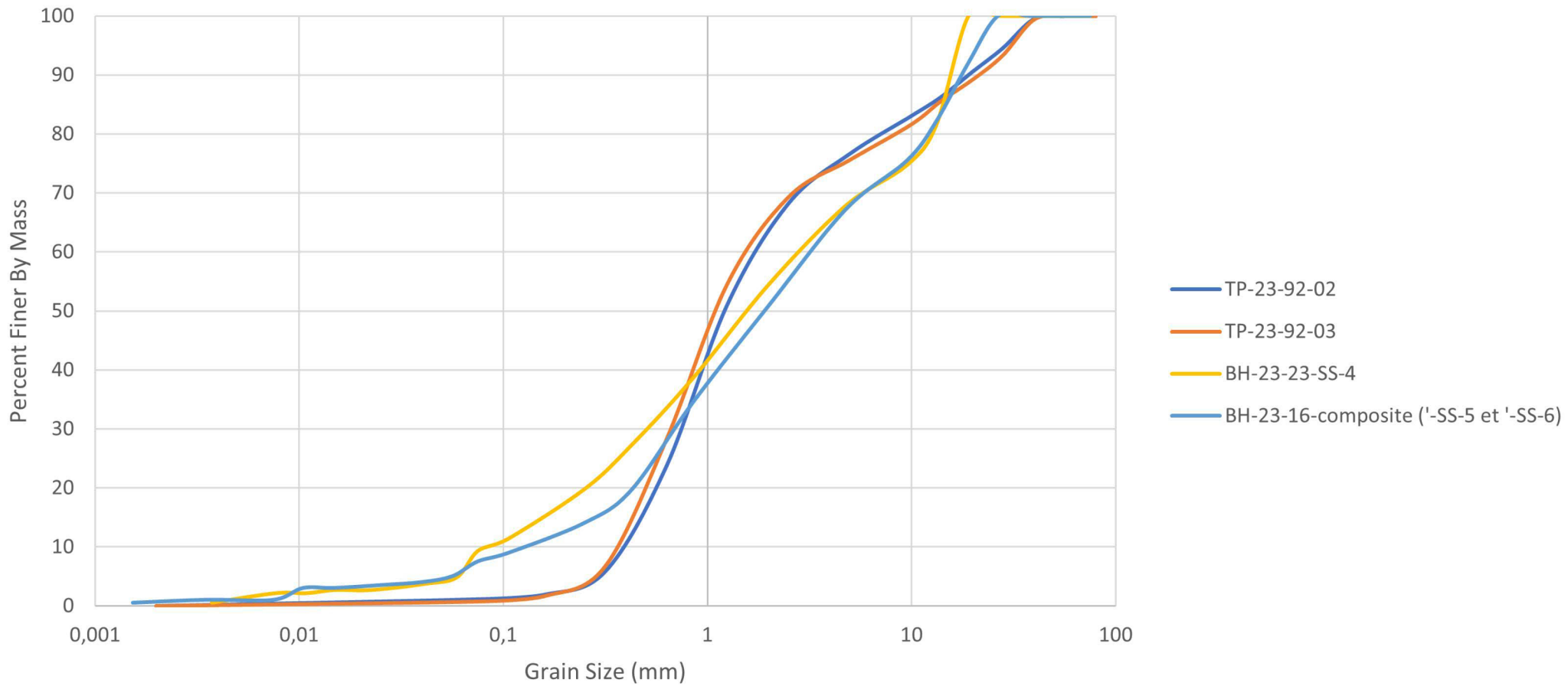
Graph D2 - Compilation of grain size analysis results for alluvium soil.



Graph D3 - Compilation of grain size analysis results for glacial till soil.



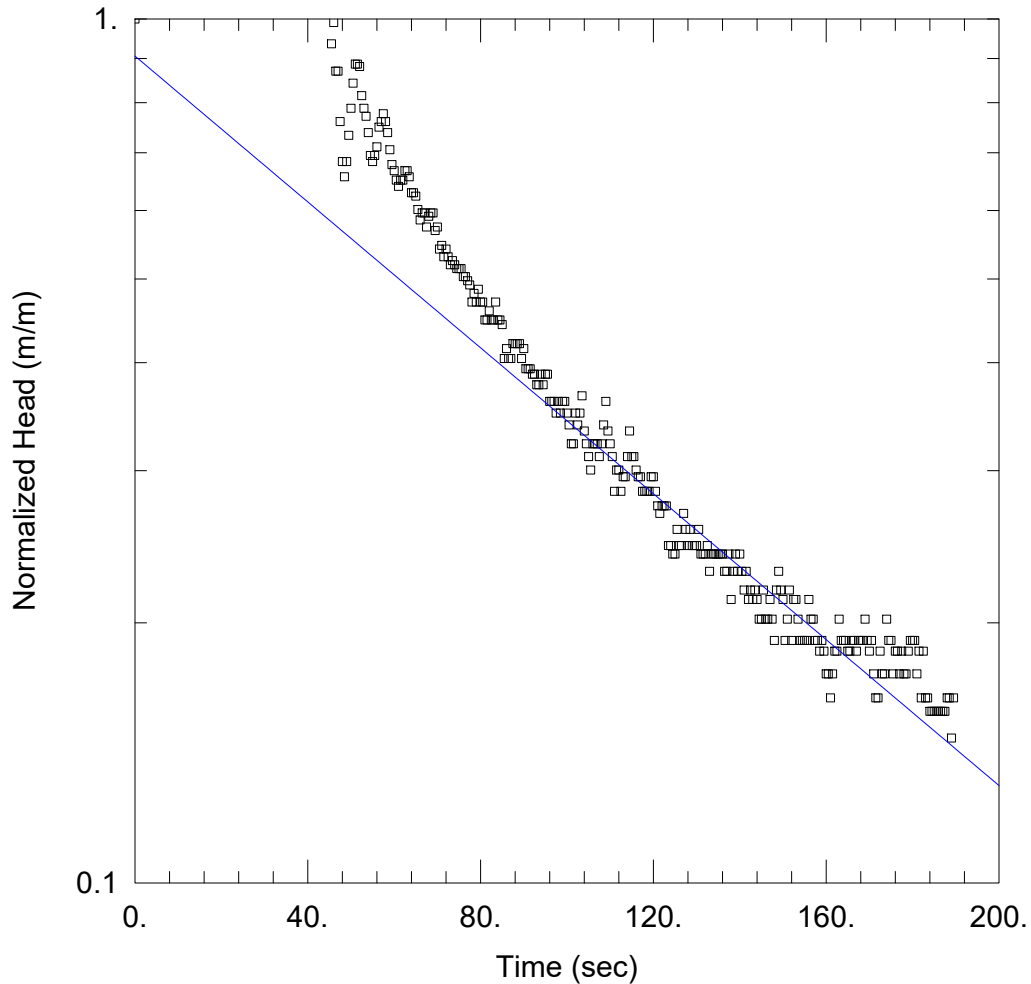
### Esker



Graph D4 - Compilation of grain size analysis results for esker soil.

**APPENDIX E**

# Hydraulic Test Result



WELL TEST ANALYSIS

Data Set: C:\...\MW-23-24.aqt  
 Date: 02/13/24

Time: 12:03:07

PROJECT INFORMATION

Company: WSP  
 Client: Troilus Gold Corporation  
 Project: 2257554002  
 Test Well: MW-23-24  
 Test Date: 2023-11-02

AQUIFER DATA

Saturated Thickness: 2.44 m

Anisotropy Ratio ( $K_z/K_r$ ): 1.

WELL DATA (MW-23-24)

Initial Displacement: 0.35 m  
 Total Well Penetration Depth: 2.44 m  
 Casing Radius: 0.02019 m

Static Water Column Height: 9.13 m  
 Screen Length: 2.44 m  
 Well Radius: 0.046 m

SOLUTION

Aquifer Model: Confined  
 $K = 2.47E-6$  m/sec

Solution Method: Bower-Rice  
 $y_0 = 0.317$  m

**APPENDIX F**

**Limitations and General Conditions**

## **Limitations and General Conditions of the Study**

This report is intended solely for the Troilus Gold Corporation (Troilus) named. The material in it reflects our best judgment in light of the information available to WSP Canada Incorporated (WSP) at the time of preparation. Unless otherwise agreed in writing by WSP, it shall not be used to express or imply warranty as to the fitness of the property for a particular purpose. No portion of this report may be used as a separate entity, it is written to be read in its entirety.

The conclusions and recommendations given in this report are based on information determined at the borehole locations. The information contained herein in no way reflects on the environment aspects of the project, unless otherwise stated. Subsurface and groundwater conditions between and beyond the test holes may differ from those encountered at the test hole locations, and conditions may become apparent during construction, which could not be detected or anticipated at the time of the site investigation. The benchmark and elevations used in this report are primarily to establish relative elevation differences between the boreholes locations and should not be used for other purposes, such as grading, excavating, planning, development, etc.

The design recommendations given in this report are applicable only to the project described in the text and then only if constructed substantially in accordance with the details stated in this report.

The comments made in this report on potential construction problems and possible methods are intended only for the guidance of the designer. The number of test holes may not be sufficient to determine all the factors that may affect construction methods and costs. For example, the thickness of surficial topsoil or fill layers may vary markedly and unpredictably. The contractors bidding on this project or undertaking the construction should, therefore, make their own interpretation of the factual information presented and draw their own conclusions as to how the subsurface conditions may affect their work. This work has been undertaken in accordance with normally accepted geotechnical engineering practices.

Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, are the responsibility of such third parties. WSP accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report.

We accept no responsibility for any decisions made or actions taken as a result of this report unless we are specifically advised of and participate in such action, in which case our responsibility will be as agreed to, at that time.

