# APPENDIX R15E

## 2010 Geotechnical Investigation for Mine Site Infrastructure Factual Data Report

Victoria GOLD CORP

Stantec

BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

# VICTORIA GOLD CORPORATION

# EAGLE GOLD PROJECT
# DUBLIN GULCH, YUKON

# 2010 GEOTECHNICAL INVESTIGATION FOR MINE SITE INFRASTRUCTURE
# FACTUAL DATA REPORT

| | | | |
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November 17, 2011
Project No. 0792-004

Mike Padula
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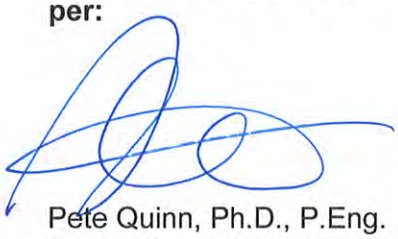
Dear Mr. Padula,

**RE: EAGLE GOLD PROJECT: 2010 GEOTECHNICAL INVESTIGATION FOR MINE SITE INFRASTRUCTURE FACTUAL DATA REPORT**

Please find attached the final version of the aforementioned report. Should you have any questions or comments, please do not hesitate to contact the undersigned.

Yours sincerely,

**BGC ENGINEERING INC.**
**per:**



Pete Quinn, Ph.D., P.Eng.
Senior Geotechnical Engineer

# EXECUTIVE SUMMARY

This report summarizes the findings of geotechnical site investigation work conducted in the summer of 2010 at the Eagle Gold Project, at Dublin Gulch, located near Mayo, Yukon. Several areas on site were explored as part of a Feasibility Study for development of an open pit heap leach gold mine. BGC is providing engineering recommendations for the open pit slopes and pit depressurization under separate cover. The present report addresses investigations conducted for proposed mine site infrastructure other than the open pit, including: the heap leach pad; waste rock storage areas; crushers and conveyors; water diversion structures; plant site buildings; solution and water management ponds; and other miscellaneous buildings and facilities.

In 2010, a total of forty-nine (49) test pits and twenty-five (25) drill holes were completed to characterize the overburden material and bedrock conditions. Additionally, three (3) cut slopes were logged for exposed soil and rock conditions, and core from one client-drilled condemnation hole was logged for geotechnical purposes. Laboratory testing was completed on selected samples for moisture content, and representative samples were also tested for Atterberg Limits and grain size analysis. Other laboratory tests were completed on bulk samples of placer tailings to assess their potential use as select fill or aggregate.

This report presents factual data only, and does not include any engineering interpretation of the data nor engineering recommendations in relation to the proposed mine facilities.

# TABLE OF CONTENTS

## LIST OF TABLES



## LIST OF DRAWINGS



## LIST OF APPENDICES

# LIMITATIONS

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This report presents factual data only, and does not include any engineering interpretations or recommendations. Any such interpretation by others is solely their responsibility.

# 1.0 INTRODUCTION

## 1.1. General

Victoria Gold Corporation (VIT) is completing a feasibility study (FS) for development of the proposed Eagle Gold mine at Dublin Gulch, Yukon. BGC Engineering Inc. (BGC) was contracted by VIT to design the slopes for the open pit and to complete geotechnical subsurface exploration work for the other mine facilities. This report presents factual data resulting from the geotechnical investigations performed in May, June and August 2010. This work was conducted to investigate subsurface conditions at the proposed locations for the mine site infrastructure, other than the open pit, including: the heap leach pad; waste rock storage areas; crushers and conveyors; water diversion structures; plant site buildings; solution and water management ponds; and other miscellaneous buildings and facilities.

## 1.2. Project Description

The Eagle Gold property is located approximately 40 km north of Mayo, and 15 km northwest of Elsa, as illustrated in Drawing 01. The mine will comprise an open pit and heap leach pad; haul roads; waste rock storage areas; process plant site; crushers and conveyors; process water ponds; drainage ditches; sediment control structures and various ancillary facilities.

A preliminary layout for the proposed mine facilities, as received from Wardrop on February 23, 2011, is illustrated in Drawing 02. Note that the field investigation plans were made on the basis of earlier general arrangements received from the pre-feasibility designers, Scott Wilson RPA, in early 2010. The general arrangement is understood to be undergoing further revision at the time of writing of this report.

## 1.3. Previous Studies

Previous geotechnical site investigations were carried out at the Eagle Gold property in 1995 by Knight Piesold and in 1996 by Sitka Corp. The purpose of those studies was to investigate potential heap leach and waste rock facility locations for feasibility design. The following are the key previous site investigation reports:

- Report on 1995 Geotechnical Investigations for Four Potential Heap Leach Facility Site Alternatives, First Dynasty Mines, Dublin Gulch Property. (Knight Piesold, 1996a)
- Report on Feasibility Design of the Mine Waste Rock Storage Area, First Dynasty Mines, Dublin Gulch Property. (Knight Piesold, 1996b)
- Field Investigation Data Report, Dublin Gulch Project, New Millennium Mining. (Sitka Corp, 1996.)
- Hydrogeological Characterization and Assessment, Dublin Gulch Project, New Millennium Mining. (GeoEnviro Engineering, 1996)

Knight Piesold completed a feasibility level geotechnical study to evaluate the surficial materials and bedrock conditions at four (4) potential heap leach pad locations, two (2) potential waste rock storage areas, and the open pit. Groundwater wells and two (2) thermistors were installed in selected drillholes. Test pitting and diamond drilling were completed from June to September 1995 at upper Bawn Bay Gulch, lower Dublin Gulch, the north side of Lynx Creek, and at the confluence of Haggart and Lynx Creeks.

In 1996, Sitka Corp completed test pits and diamond drillholes in Bawn Bay Gulch, Eagle Pup, Stewart Gulch, and Platinum Gulch for preliminary design of the heap leach and waste rock facilities. Auger holes were drilled in Gill Gulch to evaluate it as a potential borrow source of silt material for use as a liner for the heap leach facility. Monitoring wells were installed in Bawn Bay Gulch and Eagle Pup. Eight (8) thermistor strings were installed.

In 2009, BGC was engaged to gather factual data describing subsurface conditions at the proposed heap leach and waste rock storage facility locations. The work involved the excavation of sixty-nine (69) test pits and advancement of seven (7) boreholes. Thermistor strings were installed in three (3) boreholes to gather temperature data. Dynamic cone penetration profiles were obtained at two (2) borehole locations to obtain information about material density. Dynamic cone soundings were attempted in two (2) other holes and met with refusal. Groundwater monitoring wells were installed by Stantec in two (2) of the seven (7) BGC boreholes. In addition, Stantec supervised the logging and installation of several other monitoring wells around the site.

### 1.4. Scope of Work

BGC was engaged to gather additional factual data regarding subsurface conditions at the proposed mine site facilities in 2010. The 2010 field activities involved the excavation of forty-nine (49) test pits and advancement of twenty-four (24) drill holes. Additionally, BGC logged soil and rock conditions at three (3) existing cut slopes, and logged the collected core from one of VIT's condemnation holes for geotechnical purposes. Samples were taken from select test pits and boreholes for index testing. Bulk samples of placer tailings were also analyzed to assess their potential for re-use as select fill or aggregate.

# 2.0 SITE CONDITIONS

## 2.1. Regional Geology

### 2.1.1.Surficial Geology

The surficial geology of the Dublin Gulch area has been mapped by Bond (1998) and is illustrated in Drawing 03. Pleistocene and Holocene colluvial deposits are abundant in the project area and generally consist of diamicton, gravel, shattered bedrock, and lenses of sand and silt derived from bedrock and surficial materials by a variety of chemical and physical weathering processes. Transport of surface material occurs as creep, sheetwash, and mass wasting and is common on all slopes in the area.

Glacial till is infrequently observed because the valley is aligned transverse to the regional Cordilleran ice flow. Where till does occur, it is generally either a silty or sandy clay matrix with some proportion of larger clasts up to cobble size. The valley bottom is dominated by alluvium and placer mining tailings. The north facing uplands are covered by an apron or blanket of colluvium over bedrock, as compared with the southern facing uplands, where bedrock is nearer to surface and covered by a thinner veneer of colluvium. The Haggart Creek Valley to the west of the project site is filled with a mix of alluvial deposits and placer tailings. A till blanket has been mapped along the east side of Haggart Creek, south of its confluence with Dublin Gulch.

The project site is located in a region of discontinuous permafrost. Permafrost distribution within the project area is controlled by factors such as surface sediments, soil moisture, aspect, and snow depth. Permafrost occurs typically on north- and east-facing slopes at higher elevations, and within poorly drained valley bottoms.

Frozen soil, when observed, is generally encountered immediately below the organic cover, although frozen organics are also encountered on north-facing slopes and under a dense spruce forest canopy. The distribution of frozen ground is highly variable across the site. Permafrost was confirmed with temperature measurements at one of ten (10) thermistors installed by Knight Piesold and Sitka Corp (GT96-33) in 1996. Their other nine (9) thermistors showed an absence of permafrost. Two (2) of BGC's thermistors from 2009 (STU-3 and STU-4) confirmed permafrost at those locations. In all three cases of confirmed permafrost, the measured ground temperatures showed the permafrost to be warm, at close to 0$^{o}$C.

### 2.1.2.Bedrock Geology

The Eagle Gold occurrence is located at the western limit of the Dublin Gulch property at its narrowest extent. It is hosted within Upper Proterozoic to Lower Cambrian aged metasedimentary rocks of the Hyland group. The metasedimentary clastic rocks consist of intercalated and deformed quartzites, and phyllites, and to a lesser degree, schists and

carbonates. The dominant structure in the Dublin Gulch deposit area is a northeast (70°E) trending intrusive stock, roughly 2 km wide by 5.5 km long, which has been dated at approximately 93 million years. The long axis of the stock coincides with the axis of the Dublin Gulch anticline. Sheet-like sills of granodiorite extend from the stock and cut the meta-sedimentary strata at low angles. The intrusive-meta-sedimentary contact dips shallowly to steeply to the north on the northern side of the intrusive, and steeply to the north or south along its southern margin.

The Dublin Gulch Property is located in the northern portion of the Selwyn Basin. The Selwyn Basin is a fault controlled epicratonic basin that is underlain by four main metasedimentary units. Dominantly clastic, these units are, from oldest to youngest, the Proterozoic Hyland Group, the Paleozoic Upper Schist, and the Mesozoic Lower Schist and Keno Hill Quartzites.

These units have been juxtaposed by Cretaceous-aged laterally extensive, northward directed thrust sheets. There are three (3) principal thrust sheets, from east to west: the Dawson, Tombstone and Robert Service.

Four generations of deformation are documented; however, two initial events are responsible for the dominant structural orientation. The first resulted in widespread development of foliation that was subsequently deformed by gentle, regional-scale folding. The second deformational event resulted in east-trending, south-plunging anticlines within the Dublin Gulch area which are the dominant structures at the Eagle Gold occurrence.

At least four periods of faulting have occurred in the Dublin Gulch area, including two low angle thrust and bedding plane faults, NW trending faults, NE trending faults, E trending faults, and N-S trending faults. It is the latter that may have the most significant impact on mineralization, which appears to displace the Dublin Gulch stock.

The Dublin Gulch area is characterized by four intrusive episodes. The most significant is the occurrence of Cretaceous aged granodiorite which has intruded the Hyland Group metasediments near their contact with the underlying Upper Schist. Quartz diorite, quartz monzonite, leucogranite and aplite comprise the younger intrusive phases that occur predominantly as dikes and sills, and cut both, the granodiorite and surrounding country rocks.

The meta-sedimentary rocks are the product of greenschist-grade regional metamorphism, and proximal to the Dublin Creek area have undergone metasomatism and contact metamorphism. A hornfels thermal aureole surrounds the deposit and within which the coarse clastic components of the Hyland Group have been altered to quartz-biotite, the argillaceous components to sericite-biotite-chlorite schist, and the carbonates to marble, wollastonite-quartz skarn and pyroxenite skarn. The aureole extends from 800 to 2,000 m outward from the intrusive.

# 3.0 GEOTECHNICAL INVESTIGATIONS

## 3.1. General

The field work for this project was conducted in May, June and August, 2010, and included the following tasks:

- Initial reconnaissance to stake out the test pit and borehole locations;
- Excavation of test pits to refusal, sloughing, or the limit of reach of a John Deere 33T excavator;
- Visual classification and sampling of overburden materials in the test pits;
- Visual logging of soil and rock conditions at selected cut slopes;
- Ground ice classification, where encountered;
- Supervision of drilling using solid stem auger and triple tube diamond drill coring;
- Completion of standard penetrometer testing at discrete intervals in the auger holes;
- Visual classification of overburden materials and bedrock core in the drill holes;
- Point load testing of selected rock core samples; and,
- Installation of a thermistor string at one borehole location.

The test pit program was designed to develop an understanding of the engineering properties of the overburden materials across the site, providing additional data to support that obtained in 2009. The borehole program was planned to characterize overburden and bedrock conditions at selected key facility locations.

A summary of all test locations conducted in 2010 is included in Table 1, below. The horizontal locations of all test pits and boreholes were estimated using a handheld GPS unit. Ground elevations at test hole locations have been inferred from available topographic data. All test hole location information should be considered approximate.

Overburden materials were described according to the Unified Soil Classification System (USCS, ASTM D24887) and frozen soils were classified according to ASTM D4083. All laboratory testing was conducted in general accordance with the standards detailed in Table 2. A summary table of all samples collected in 2010 is provided in Table A.1, found in Appendix A.

## 3.2. Test Pitting

In 2010, a total of forty-nine (49) test pits were excavated throughout the project area. Test pits were excavated using a John Deere 33T excavator. All test pit locations are illustrated on Drawings 04, 04A, 04B and 04C. Test pit observations allowed for characterization of subsurface conditions and collection of disturbed soil samples for laboratory testing. Observations of material compactness were inferred from excavator performance and from penetration resistance of the side walls of shallow pits. All frozen ground encountered was

classified for ice content in the field. All test pits were terminated until refusal on bedrock or frozen ground, sloughing/collapse of side walls, or the limits of excavator reach. Test pit logs are included in Appendix B. Selected test pit photographs are included in Appendix C.

A substantial volume of test pit data is available from other sources (provided to BGC from VIT), as summarized above in Section 1. The locations of BGC test pits from the pre-feasibility investigation in 2009 are shown on Drawing 05. The locations of test pits completed by others are shown in Drawing 06.

### 3.3. Auger Drilling

Solid stem auger drilling was conducted by Core Drilling of Calgary, Alberta. Auger holes were advanced to the limits of drilling capability (i.e. length of auger) or to refusal, typically on boulders or bedrock. Auger hole logs are included in Appendix D.

Standard penetration testing (SPT) was completed at selected intervals in the auger holes in the placer tailings (fill) in the valley bottom to obtain some measure of in-situ density. Previous observations of the subsurface materials at site indicate the presence of a large fraction of coarse particles (cobbles and boulders) in most undisturbed overburden materials (i.e. colluvium and weathered bedrock) and fill (i.e. placer tailings), reducing the applicability of SPT testing. It is noted that SPT results were frequently affected by the presence of cobbles and boulders, and should be interpreted with caution. The raw SPT blow count results are shown on the auger hole logs.

A substantial volume of additional drill hole data is available from other sources, as detailed in Section 1. The locations of BGC bore holes from the pre-feasibility investigation in 2009 are shown in Drawing 05. The locations of drill holes completed by others are shown in Drawing 06.

### 3.4. Diamond Drilling

Diamond drilling was conducted by Lyncorp of Smithers, BC using a sledge mounted diamond drill rig equipped with PQ and HQ3 drill equipment. Note that drilling activities were conducted by exploration drillers unaccustomed to geotechnical drilling techniques for good recovery of overburden and bedrock necessary for determining engineering properties; therefore, recovery in overburden materials and in lower quality rockmass materials tended to be poor, limiting the ability to observe subsurface conditions to the more competent rock. Diamond drill hole logs are included in Appendix D. Core photos are included in Appendix E.

Point load testing was completed on selected core samples. The test results are tabulated in Table A.8 in Appendix A.

### 3.5. Thermistor Installation

A thermistor string was installed in one borehole (BH-BGC10-07) to measure ground temperatures to 10 m depth. The thermistor string was installed in an open 50 mm diameter,

schedule 80 PVC casing. The thermistor string was manufactured by EBA Engineering Consultants Ltd.

### 3.6. Stantec Monitoring Wells

During the 2010 field season, BGC logged two (2) boreholes (BH-STAN10-AG3 and BH-STAN10-AG5) that were supervised by Stantec and completed as monitoring wells. The monitoring wells were constructed using 50 mm diameter, Schedule 40, threaded PVC pipe with a screened section of slotted PVC at the bottom. The geotechnical classification of overburden and bedrock conditions is detailed in the borehole logs in Appendix D, and core photos are included, where available, in Appendix E.

### 3.7. Cut Slope Logging

The presence of recent cut slopes at three locations provided an opportunity to log additional subsurface materials without the need for further excavation. This was done at the cut slope adjacent to two (2) drill pads (BH-BGC10-01 and -10) and along the road cut adjacent to test pit TP-BGC10-04. Cut slope logs are found in Appendix F.

**Table 1. 2010 Site Investigation Test Holes**

| Test Hole | Date Completed | UTM Coordinates[1] (NAD83, Zone 8N) | | Approximate Elevation[2] (m) | Completion Depth (m) | Hole Advancement Method | Depth Water was Observed[3] (m) | Frozen Ground Observed? (Y/N) | Comments |
|---|---|---|---|---|---|---|---|---|---|
| | | Easting (m) | Northing (m) | | | | | | |
| **Test Pits** | | | | | | | | | |
| TP-BGC10-01 | 7-Aug-10 | 460757 | 7099759 | 1347 | 1.2 | Excavator | | N | |
| TP-BGC10-02 | 7-Aug-10 | 460417 | 7099041 | 1328 | 2.8 | Excavator | | N | |
| TP-BGC10-03 | 7-Aug-10 | 460256 | 7099026 | 1245 | 1.8 | Excavator | | Y | |
| TP-BGC10-04 | 7-Aug-10 | 460125 | 7099116 | 1228 | 0.5 | Excavator | | N | Cutslope |
| TP-BGC10-05 | 7-Aug-10 | 459666 | 7099847 | 1064 | 4.0 | Excavator | | N | |
| TP-BGC10-06 | 8-Aug-10 | 459577 | 7099886 | 1038 | 4.2 | Excavator | | Y | |
| TP-BGC10-07 | 8-Aug-10 | 460373 | 7099880 | 1206 | 7.0 | Excavator | | N | |
| TP-BGC10-08 | 8-Aug-10 | 460276 | 7100107 | 1098 | 2.3 | Excavator | | N | |
| TP-BGC10-09 | 8-Aug-10 | 459751 | 7100146 | 1038 | 1.0 | Excavator | | N | |
| TP-BGC10-10 | 8-Aug-10 | 459888 | 7100167 | 1080 | 1.5 | Excavator | | N | |
| TP-BGC10-11 | 8-Aug-10 | 459542 | 7100568 | 945 | 4.0 | Excavator | | Y | |
| TP-BGC10-12 | 8-Aug-10 | 460016 | 7100722 | 971 | 9.0 | Excavator | | N | |
| TP-BGC10-13 | 9-Aug-10 | 460600 | 7100045 | 1208 | 4.2 | Excavator | | N | |

| Test Hole | Date Completed | UTM Coordinates[1] (NAD83, Zone 8N) | | Approximate Elevation[2] (m) | Completion Depth (m) | Hole Advancement Method | Depth Water was Observed[3] (m) | Frozen Ground Observed? (Y/N) | Comments |
|---|---|---|---|---|---|---|---|---|---|
| | | Easting (m) | Northing (m) | | | | | | |
| TP-BGC10-14 | 9-Aug-10 | 460377 | 7100366 | 1070 | 8.5 | Excavator | 8.0 | Y | |
| TP-BGC10-15 | 9-Aug-10 | 460410 | 7100594 | 1065 | 4.0 | Excavator | | N | |
| TP-BGC10-16 | 9-Aug-10 | 460168 | 7100829 | 981 | 3.8 | Excavator | | N | |
| TP-BGC10-17 | 10-Aug-10 | 459421 | 7100941 | 873 | 6.0 | Excavator | | N | |
| TP-BGC10-18 | 9-Aug-10 | 459480 | 7100988 | 877 | 7.5 | Excavator | | N | |
| TP-BGC10-19 | 10-Aug-10 | 459599 | 7100978 | 899 | 2.5 | Excavator | 1.75 | Y | |
| TP-BGC10-20 | 10-Aug-10 | 459756 | 7101062 | 905 | 3.2 | Excavator | | N | |
| TP-BGC10-21 | 10-Aug-10 | 459841 | 7101288 | 895 | 6.5 | Excavator | 3.0 | N | |
| TP-BGC10-22 | 10-Aug-10 | 459762 | 7101195 | 884 | 5.3 | Excavator | 3.0 | N | |
| TP-BGC10-23 | 10-Aug-10 | 459645 | 7101244 | 880 | 5.0 | Excavator | | N | |
| TP-BGC10-24 | 10-Aug-10 | 459460 | 7101141 | 858 | 3.0 | Excavator | | N | |
| TP-BGC10-25 | 11-Aug-10 | 459274 | 7101786 | 1023 | 6.5 | Excavator | | N | |
| TP-BGC10-26 | 11-Aug-10 | 459422 | 7101934 | 1023 | 5.3 | Excavator | | N | |
| TP-BGC10-27 | 11-Aug-10 | 459394 | 7102090 | 1045 | 5.3 | Excavator | | N | |
| TP-BGC10-28 | 11-Aug-10 | 459287 | 7102251 | 1027 | 0.5 | Excavator | | Y | |

| Test Hole | Date Completed | UTM Coordinates[1] (NAD83, Zone 8N) | | Approximate Elevation[2] (m) | Completion Depth (m) | Hole Advancement Method | Depth Water was Observed[3] (m) | Frozen Ground Observed? (Y/N) | Comments |
|---|---|---|---|---|---|---|---|---|---|
| | | Easting (m) | Northing (m) | | | | | | |
| TP-BGC10-29 | 11-Aug-10 | 459520 | 7102249 | 1049 | 3.0 | Excavator | | N | |
| TP-BGC10-30 | 11-Aug-10 | 459923 | 7102051 | 1060 | 5.5 | Excavator | | N | |
| TP-BGC10-31 | 11-Aug-10 | 459817 | 7102120 | 1048 | 5.3 | Excavator | | N | |
| TP-BGC10-32 | 12-Aug-10 | 459801 | 7101382 | 902 | 8.0 | Excavator | | N | |
| TP-BGC10-33 | 12-Aug-10 | 458787 | 7101135 | 868 | 6.5 | Excavator | | N | |
| TP-BGC10-34 | 12-Aug-10 | 458961 | 7101138 | 852 | 6.5 | Excavator | | N | |
| TP-BGC10-35 | 12-Aug-10 | 459222 | 7101209 | 880 | 5.5 | Excavator | | Y | |
| TP-BGC10-36 | 14-Aug-10 | 459216 | 7101005 | 837 | 4.5 | Excavator | | N | |
| TP-BGC10-37 | 14-Aug-10 | 458962 | 7100879 | 826 | 9.0 | Excavator | | N | |
| TP-BGC10-38 | 14-Aug-10 | 459027 | 7100975 | 830 | 4.5 | Excavator | | N | |
| TP-BGC10-39 | 14-Aug-10 | 458848 | 7100939 | 825 | 5.5 | Excavator | | N | |
| TP-BGC10-40 | 14-Aug-10 | 458885 | 7100870 | 816 | 5.5 | Excavator | 4.5 | N | |
| TP-BGC10-41 | 20-Aug-10 | 459431 | 7101617 | 942 | 6.1 | Excavator | | N | |
| TP-BGC10-42 | 20-Aug-10 | 459263 | 7101396 | 917 | 3.5 | Excavator | | Y | |
| TP-BGC10-43 | 21-Aug-10 | 459130 | 7100769 | 861 | 6.5 | Excavator | | N | |

| Test Hole | Date Completed | UTM Coordinates[1] (NAD83, Zone 8N) | | Approximate Elevation[2] (m) | Completion Depth (m) | Hole Advancement Method | Depth Water was Observed[3] (m) | Frozen Ground Observed? (Y/N) | Comments |
|---|---|---|---|---|---|---|---|---|---|
| | | Easting (m) | Northing (m) | | | | | | |
| TP-BGC10-44 | 21-Aug-10 | 459200 | 7100590 | 892 | 6.0 | Excavator | | Y | |
| TP-BGC10-45 | 21-Aug-10 | 459232 | 7100742 | 867 | 6.7 | Excavator | | N | |
| TP-BGC10-46 | 21-Aug-10 | 458380 | 7101022 | 794 | 6.1 | Excavator | | N | |
| TP-BGC10-47 | 22-Aug-10 | 458486 | 7100918 | 806 | 5.3 | Excavator | | N | |
| TP-BGC10-48 | 22-Aug-10 | 458508 | 7101006 | 801 | 3.5 | Excavator | 2.0 | N | |
| TP-BGC10-49 | 22-Aug-10 | 458586 | 7100979 | 808 | 6.0 | Excavator | 5.5 | N | |
| **Boreholes** | | | | | | | | | |
| BH-BGC10-1 | 25-May-10 | 459906 | 7102065 | 1057 | 20.4 | Diamond Drill | | | Cutslope |
| BH-BGC10-2 | 19-Aug-10 | 459436 | 7101609 | 949 | 46.6 | Diamond Drill | | | |
| BH-BGC10-3 | 16-May-10 | 459654 | 7101217 | 878 | 50.7 | Diamond Drill | 6.15 | | |
| BH-BGC10-4 | 15-May-10 | 459465 | 7101139 | 858 | 31.0 | Diamond Drill | | | |
| BH-BGC10-5 | 18-May-10 | 459744 | 7101195 | 885 | 21.0 | Diamond Drill | 0.4 | | |
| BH-BGC10-6 | 15-Aug-10 | 459479 | 7100991 | 876 | 28.9 | Diamond Drill | | | |
| BH-BGC10-7 | 17-Aug-10 | 459547 | 7100585 | 948 | 28.8 | Diamond Drill | | | Thermistor Install |
| BH-BGC10-8 | 22-May-10 | 459566 | 7099879 | 1036 | 26.2 | Diamond Drill | 5.6 | | |

| Test Hole | Date Completed | UTM Coordinates[1] (NAD83, Zone 8N) | | Approximate Elevation[2] (m) | Completion Depth (m) | Hole Advancement Method | Depth Water was Observed[3] (m) | Frozen Ground Observed? (Y/N) | Comments |
|---|---|---|---|---|---|---|---|---|---|
| | | Easting (m) | Northing (m) | | | | | | |
| BH-BGC10-9 | 20-Aug-10 | 460191 | 7100825 | 987 | 28.3 | Diamond Drill | | | |
| BH-BGC10-10 | 20-May-10 | 460017 | 7100722 | 971 | 23.5 | Diamond Drill | | | Cutslope |
| BH-BGC10-11 | 19-Aug-10 | 458966 | 7101156 | 857 | 46.6 | Diamond Drill | | | |
| BH-BGC10-12 | 16-Aug-10 | 458779 | 7101125 | 863 | 28.7 | Diamond Drill | | | |
| BH-BGC10-13 | 17-May-10 | 458844 | 7100942 | 824 | 19.5 | Augers/ Diamond Drill | | | |
| BH-BGC10-14 | 13-May-10 | 458580 | 7100980 | 808 | 20.7 | Augers/ Diamond Drill | 12.6 | | |
| BH-BGC10-14B | 15-May-10 | 458503 | 7101013 | 800 | 16.2 | Augers/ Diamond Drill | | | |
| BH-BGC10-15 | 19-May-10 | 459835 | 7101280 | 893 | 21.0 | Diamond Drill | | | |
| BH-BGC10-16 | 14-Aug-10 | 459409 | 7100913 | 878 | 28.0 | Diamond Drill | | | |
| BH-BGC10-17 | 14-May-10 | 459222 | 7101020 | 836 | 39.3 | Diamond Drill | | | |
| BH-BGC10-18 | 23-May-10 | 459659 | 7099855 | 1063 | 30.2 | Diamond Drill | 6.6 | | |
| BH-BGC10-19 | 23-Jun-10 | 460274 | 7100084 | 1104 | 49.4 | Diamond Drill | | | Condemnation Hole |
| BH-BGC10-20 | 19-Aug-10 | 460615 | 7100059 | 1209 | 15.1 | Diamond Drill | | | |
| BH-BGC10-22 | 11-May-10 | 458391 | 7101098 | 793 | 19.0 | Augers/ Diamond Drill | 0.6 | | |
| BH-BGC10-23 | 16-May-10 | 459315 | 7101055 | 848 | 6.0 | Augers/ Diamond Drill | | | |

| Test Hole | Date Completed | UTM Coordinates[1] (NAD83, Zone 8N) | | Approximate Elevation[2] (m) | Completion Depth (m) | Hole Advancement Method | Depth Water was Observed[3] (m) | Frozen Ground Observed? (Y/N) | Comments |
|---|---|---|---|---|---|---|---|---|---|
| | | Easting (m) | Northing (m) | | | | | | |
| BH-STAN10-AG3 | 25-May-10 | 459665 | 7101971 | 998 | 16.7 | Diamond Drill | | | Stantec drill hole |
| BH-STAN10-AG5 | 26-May-05 | 459551 | 7101626 | 939 | 16.2 | Diamond Drill | | Y | Stantec drill hole |

Notes:

1. Horizontal coordinates approximate, obtained by hand-held GPS.
2. Elevations are approximate, inferred from available topographic data.
3. Groundwater depths are as observed during excavation or drilling, and may not represent stable conditions reflective of the groundwater table.

## 3.8. Laboratory Testing

Laboratory testing conducted on select samples collected in 2010 included: moisture content determination, Atterberg limits, grain size analysis (sieve analysis and hydrometers), specific gravity, and moisture-density relationships (Modified Proctor). In addition, point load testing of rock core, and aggregate testing was conducted on select representative samples of the existing placer tailings. The total number of laboratory tests and reference standards used during testing are summarized in Table 2. All results are tabulated in Appendix A. The original lab test reports are included in Appendix G.

**Table 2. 2010 Laboratory Testing Conducted**

| Laboratory Test | Testing Standard | Number of Tests | Reference Table in Appendix A |
|---|---|---|---|
| Moisture Content | ASTM D2216 | 57 | A.2 |
| Soil Gradation, Sieve Analysis of Coarse and Fine Aggregate. | CSA A23.2-2A, ASTM C136 | 35 | A.3 |
| Hydrometer (Grain Size Distribution of Silt and Clay Content) | ASTM D422 | 8 | A.3 |
| Specific Gravity Soil, and Fine Aggregate | ASTM D854 and ASTM C127, CSA A23.2-6A | 20 | A.4 |
| Atterberg Limits | ASTM D4318 | 15 | A.5 |
| Modified Proctor (Moisture Density Relationship) | ASTM D1557 | 2 | A.6 |
| Relative Density and Absorption of Aggregate | CSA A23.2-6A and 12A, ASTM C127, ASTM D854 | 4 | A.7 |
| Petrographic Number | CSA A23.2-15A | 2 | A.7 |
| Organic Impurities | ASTM D2974 and CSA A23.2-7A | 4 | A.7 |
| Clay Lumps | CSA A23.2-3A | 1 | A.7 |
| Micro Deval | CSA A23.2-23A and 29A | 2 | A.7 |
| LA Abrasion | CSA A23.2-16A | 1 | A.7 |
| Freeze Thaw Durability | CSA A23.2-24A | 1 | A.7 |
| Low Density Granular Material | CSA A23.2-4A | 1 | A.7 |
| Bulk Density of Aggregate | CSA A23.2-10A | 1 | A.7 |
| $MgSO_4$ Aggregate Soundness | CSA A23.2-9A, ASTM C88 | 8 | A.7 |
| Soluble Sulphate in Soil | CSA A23.2-3B | 1 | A.7 |
| Potential Alkalai-Silica Reactivity | CSA A23.2-25A | 1 | A.7 |
| Point Load Testing | ASTM D5371 | 44 | A.8 |

# 4.0 OBSERVED SUBSURFACE CONDITIONS

Subsurface conditions within the project area can be generalized as a thin cover of organic soil and vegetation underlain by colluvium and variably weathered bedrock. Often, alluvial sediments, glacial till or placer tailings (fill) were encountered in or near the valley bottom close to Dublin Gulch. Ground conditions throughout the project site were found to be highly variable and influenced by the degree of bedrock weathering, slope angles, and ground elevation.

Frozen ground was observed at many test hole locations, and was observed to vary considerably with respect to the depth to frozen ground, thickness, and ground ice content. Excess ice was observed in some locations. The spatial distribution of observed frozen ground is illustrated in Drawing 07.

Groundwater observations at higher elevations were rare and groundwater was typically encountered at shallow depth in the valley bottom near Dublin Gulch.

## 4.1. Overburden

A brief discussion of the types of overburden materials encountered within the project site is provided below.

### 4.1.1.Organics

Organic cover is widespread across the project site and primarily consists of vegetative rootmat, moss, silt and sand, and organic matter in varying proportions. Typically, the thickness was in the order of 0.2 m, and was not usually encountered in previously disturbed areas containing fill materials, such as the placer tailings in the valley bottom. However, in TP-BGC10-17, -21 (inferred as old sedimentation ponds) trace to some organic materials were noted. A buried layer of peat and/or organic silt was noted at 3.0 m and 5.0 m in test pits TP-BGC10-32 and -45, respectively.

### 4.1.2.Colluvium

Colluvium materials were generally encountered on sloping ground throughout the site at or near the ground surface, below the organic cover. Colluvium was not typically observed near the valley bottom or in the previously disturbed areas in Dublin Gulch. The relative density of the colluvium was variable and generally ranged between loose and compact. The thickness and gradation of the colluvium was observed to be highly variable, predominantly ranging from boulders and cobbles with some silt and sand to silty sand with gravel and some cobbles. Gravel, cobbles, and boulders were generally observed to be angular to subangular. Finer grained silt with trace sand and gravel colluvium was also noted in test pits TP-BGC10-11, -14. -29, -31, -33, -41, -42 and -45.

#### 4.1.3.Fill

The surface materials in the valley bottom near Dublin Gulch have been reworked by several decades of placer mining activities. Old sedimentation ponds and stockpiles of variable washed sand and gravels are present throughout this area. Drawing 08 shows a rough classification of materials surveyed from surface observations. Note that this classification is intended for general information purposes; there is considerable variability of material gradation and compactness within areas identified as containing similar materials. Subsurface observations of these materials were conducted by auger drilling and test pitting, and grab samples were obtained from the ground surface. Field observations and lab testing indicate that the bulk of the material is loose to compact sand and gravel with variable amounts of silt, cobbles and boulders.

#### 4.1.4.Alluvium

Coarse alluvial materials can be difficult to distinguish from the fill materials identified above. However, finer-grained, stratified silty sand to sandy silt (with trace to no gravel) classified as alluvial soil, was encountered in TP-BGC10-43 near Stuttle Gulch.

#### 4.1.5.Glacial Till

The glacial till observed on the lower flanks of north facing slopes above (i.e. south of) Dublin Gulch can be described as a stiff to very stiff sandy silt with trace to some clay and gravel and trace to some cobbles. Interpretations of glacial till materials were generally made in the field on the basis of the (absence of) angularity of gravel and cobble size clasts. Subrounded to rounded materials are indicative of glacially transported soils in contrast to more locally transported colluvium, which tends to be more angular, as described above. Glacial till was observed in test pits TP-BGC10-17, -18, -37, and -43. In test pits TP-BGC10-17 and -37, the glacial till was observed beneath approximately 4.5 and 5.5 m of fill materials respectively.

#### 4.1.6.Highly to Completely Weathered Bedrock

Colluvium was typically observed to be underlain by a horizon of variably-weathered un-transported bedrock. The weathering profile varies substantially across the site, depending on parent rock type and other local factors.

The near-surface metasedimentary rock (e.g. quartzite, schist, phyllite) was typically observed to be: completely weathered to a silt and clay with some to trace gravel; to highly weathered sand and gravel with cobbles and trace to some silt and clay. The gravel and cobble sizes tended to be friable and platy. The transition from highly or completely weathered rock to a more competent, less weathered rockmass is highly variable and often subtle; unweathered rock was not observed in test pits, and not often observed in drill holes.

The near-surface intrusive rock (e.g. granodiorite) was typically observed to be either completely weathered to a silty sand, or sandy silt, or highly weathered to a poorly graded

sand. The thickness of the weathered horizon over less weathered, more compact bedrock, was highly variable.

## 4.2. Groundwater Conditions

Groundwater seepage was noted in twelve (12) test hole locations, as summarized in Table 1. Groundwater seepage was typically encountered in the valley bottom near Dublin Gulch with the exception of TP-BGC10-14, east of Eagle Pup and BH-BGC10-08 and -18 near Stuttle Gulch. Groundwater seepage in TP-BGC10-48 was observed to be rapid and caused sloughing and collapse of the side walls of test pit.

## 4.3. Frozen Ground

Frozen ground was encountered at ten (10) test locations in the 2010 field program. Frozen soil was generally encountered immediately within the upper 2.0 m beneath the organics; however, frozen ground was encountered at a depth of 3.0 m in TP-BGC10-44. Observations of frozen ground are illustrated on Drawing 07, which also shows frozen ground observations from previous exploration programs. It should be noted that the presence of frozen ground at the time of investigation does not automatically imply the presence of permafrost, since the maximum thaw may occur later in the year than the time of exploration; however, the presence of frozen ground does indicate that frost will likely persist at the observed locations until sometime late in the construction season.

## 4.4. Bedrock

Two (2) major rock types were encountered at the site below the overburden soils: metasedimentary and intrusive. The metasedimentary bedrock type was most predominant bedrock type encountered during the 2010 field program, since the intrusive stock extends across the uplands, which were not a primary focus of investigation this year. The bedrock may be subdivided into two broad categories for the purposes of further analysis, on the basis of similar anticipated engineering properties: highly to completely weathered rock; and, moderately to slightly weathered rock.

Note that this simplified rock classification scheme will be updated and refined in subsequent reports to include four categories of rock with successively better engineering properties: Weathered, Type 3, Type 2 and Type 1. The present report preserves a more simplified classification scheme, as follows, and as envisioned during the 2010 site investigations.

### 4.4.1. Highly to Completely Weathered Bedrock

The inferred weathering grade of rock is shown in the borehole and test pit logs, and examples of various weathering grades may be observed in the test pit and borehole photos. While the highly to completely weathered bedrock is considered intact, undisturbed rock, these materials can be described as more similar to soil than rock, and are described as

such where appropriate on the test hole logs. Rock Quality Designation (RQD) and Rock Mass Rating (RMR) were determined on the recovered core in the boreholes. Recovery of drill core was extremely poor to non-existent with RQD values ranging between 0 and 20%.

Highly to completely weathered bedrock is considered to be a soil unit for engineering classification purposes.

#### 4.4.2. Moderately to Slightly Weathered Bedrock

Highly to completely weathered rock tends to transition with depth into a less weathered profile comprised of moderately to slightly weathered rock, which tends to be stronger and contains fewer discontinuities, resulting in a higher RQD ranging between 0 to 80%, and generally greater than 35%. Core recovery in places was generally poor in the moderately to slightly weathered bedrock; however, some drill runs returned full recovery at depth.

The transition from highly or completely weathered rock to slightly or moderately weathered rock is often subtle, occurring at varying depths. In places, more competent rock is underlain by more weathered rock, resulting in a non-uniform weathering profile.

### 4.5. Sampling and Laboratory Testing Results

Representative grab samples were collected by BGC staff for laboratory index testing from both the test pits and boreholes and were tested for: natural moisture content, Atterberg Limits, grain size distribution, and specific gravity. Two (2) bulk samples from test pits were selected for additional borrow source testing. Aggregate testing was conducted on bulk samples obtained from the surface of the placer tailings and one (1) test pit. A table inventorying all samples collected during the 2010 site investigation program is provided in Table A.1 in Appendix A. The laboratory results are summarized in Appendix A, as figures in Appendix H, and the original laboratory reports are provided in Appendix G.

#### 4.5.1. Moisture Content

Samples were selected from various test pits, boreholes, and placer tailings grab samples for natural moisture content analyses. Moisture contents were highly variable and the results are reflective of the range in material gradation and density. The moisture testing results are presented in Table A.2 found in Appendix A.

#### 4.5.2. Grain Size Distribution

Representative samples were selected from various test pits and from within the placer tailings (fill) for grain size distribution analyses. Table A.3 in Appendix A and Figures H-1 to H-34 in Appendix H summarize the results.

### 4.5.3.Soil Specific Gravity

Selected samples were analyzed for specific gravity. Samples from BH-BGC10-14B were tested at three depths to look for changes in specific gravity with depth. The results indicate that the specific gravity of the materials found at site ranges between 2.65 and 2.79 m. The results are summarized in Table A.4.

### 4.5.4.Atterberg Limits

Atterberg Limits testing was conducted on five (5) test pit samples and ten (10) borehole samples. All testing was conducted on the soil fraction less than 425 μm. The results indicate that the finer grained soils exhibit some range in plasticity with a Liquid Limit between 17 and 51% and a Plastic Limit between 14 and 40%. Table A.5 and Figures H-35 to H-49 in Appendix H summarize the results. Most soils were classified as low-plasticity.

### 4.5.5.Borrow Source Testing

Borrow source testing was performed on two (2) bulk test pit samples from TP-BGC10-38 and TP-BGC10-44. Testing included: moisture-density relationship, gradation including the oversize fraction (defined as material greater than 19 mm nominal diameter), absorption, and specific gravity of coarse material. Refer to Table A.6 and Figures H-50 and H-51 in Appendix H for a summary of results.

### 4.5.6.Aggregate Testing

In May 2010, ten (10) bulk material samples were taken from various locations (Drawing 08) around the placer tailings (fill) in order to determine their characteristics relative to use as concrete aggregate. Samples were taken from the ground surface. Three (3) of the ten (10) samples were tested for grain size analysis, organic matter content, aggregate soundness by MgSO4, specific gravity, relative density and water absorption; and the remaining seven (7) were analyzed for specific gravity and moisture content. In August 2010, an additional bulk sample was sampled from a test pit and tested for a wider range of test parameters typically used for evaluation of materials proposed for concrete aggregate. Testing included all of the parameters above and: bulk density, LA abrasion, micro deval, low density granular material, clay lumps, sulphate content, alkaline aggregate reaction expansivity, freeze-thaw testing, and petrographic analysis. The results of the aggregate testing are summarized in Table A.7.

### 4.5.7.Point Load Testing

Point load testing was conducted on representative samples of rock core. The results of testing on a total of 41 samples of the metasedimentary rock indicate an average point load index of 1.7 MPa. An average point load index of 7.3 MPa was observed for 4 samples of granodiorite rock. The details of the testing are provided on Table A.8. Preliminary correlations between unconfined compressive strength testing and point load test data

(unpublished results from ongoing BGC open pit work) indicate that a k value of about 23 may be appropriate to estimate UCS (in MPa) from the point load index (in MPa), where UCS ~ k ($I_{S(50)}$), and $I_{S(50)}$ is the point load index.

## 5.0 CLOSURE

We trust the above satisfies your requirements at this time. Should you have any questions or comments, please do not hesitate to contact us.

Yours sincerely,

**BGC ENGINEERING INC.**
**per:**

for
Anthony Urquhart, M.Eng P.Eng.
Geotechnical Engineer

for
Tracye Davies, M.Sc.
Geologist

17.11.11
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Reviewed by:

Jack Seto, M.Sc., P.Eng.
Senior Geotechnical Engineer

Thomas G. Harper, P.E.
Senior Civil Engineer

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BGC Engineering Inc. 2009. Site Facilities Geotechnical Investigation Factual Data Report. Eagle Gold Project, Victoria Gold Corporatation.

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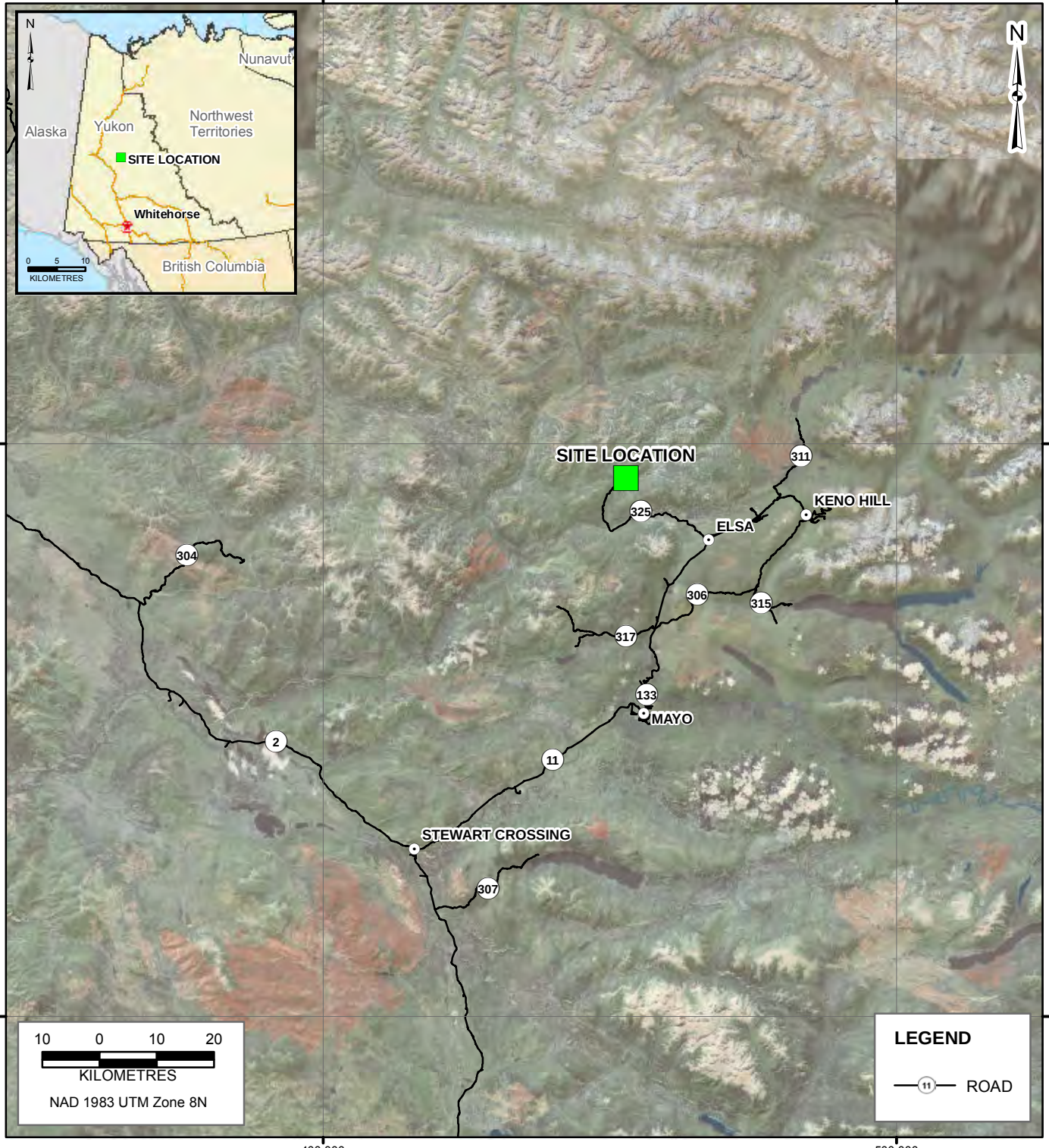
# DRAWINGS



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AN APPLIED EARTH SCIENCES COMPANY

CLIENT:
VICTORIA GOLD CORPORATION

PROJECT:
EAGLE GOLD PROJECT
2010 GEOTECHNICAL INVESTIGATION FOR MINE SITE INFRASTRUCTURE
FACTUAL DATA REPORT

TITLE:
GENERAL SITE LOCATION

| PROJECT No.: | DWG No.: | REV.: |
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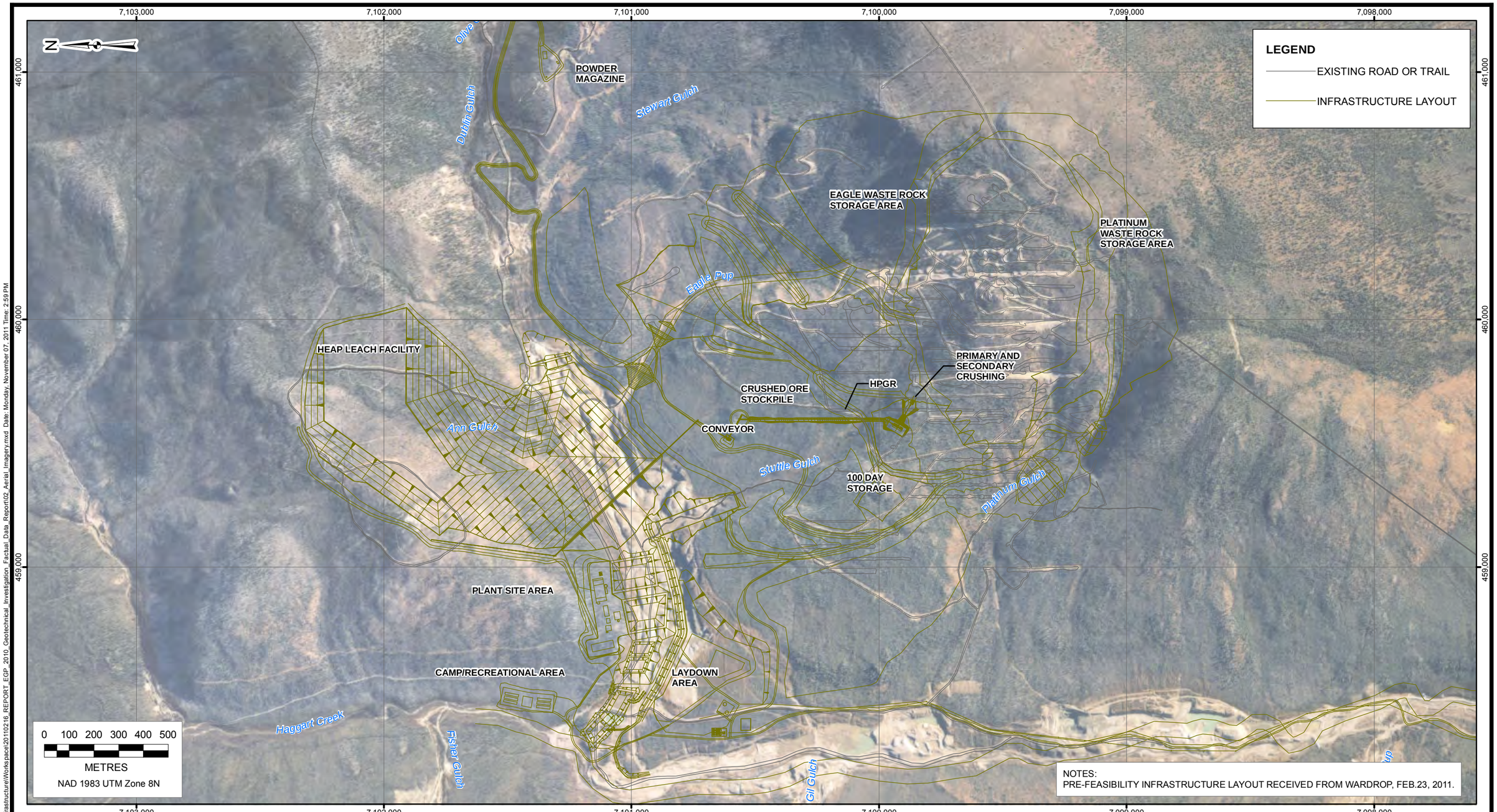


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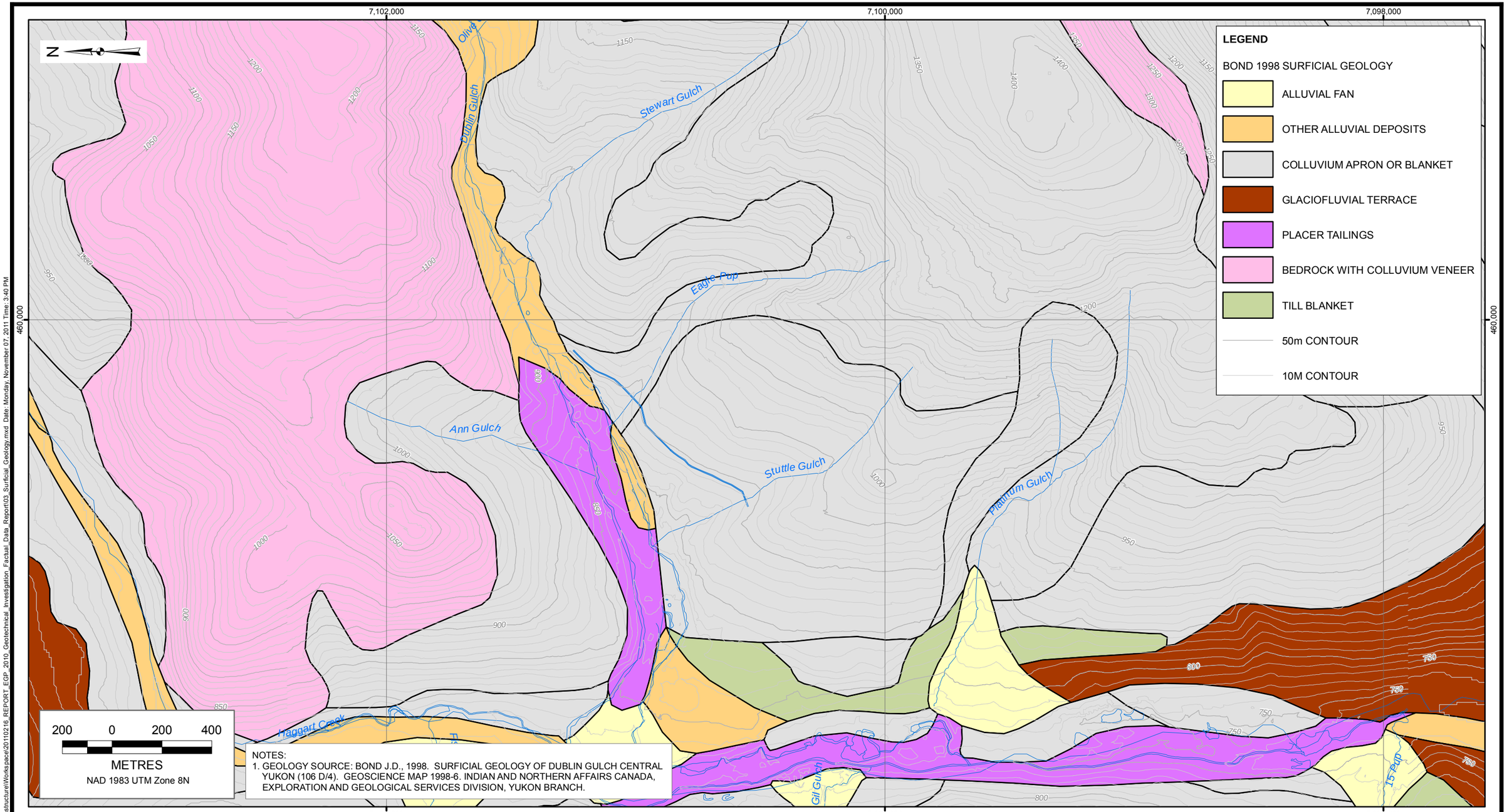


NOTES:
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2010 GEOTECHNICAL INVESTIGATION FOR MINE SITE INFRASTRUCTURE FACTUAL DATA REPORT

TITLE: SURFICIAL GEOLOGY

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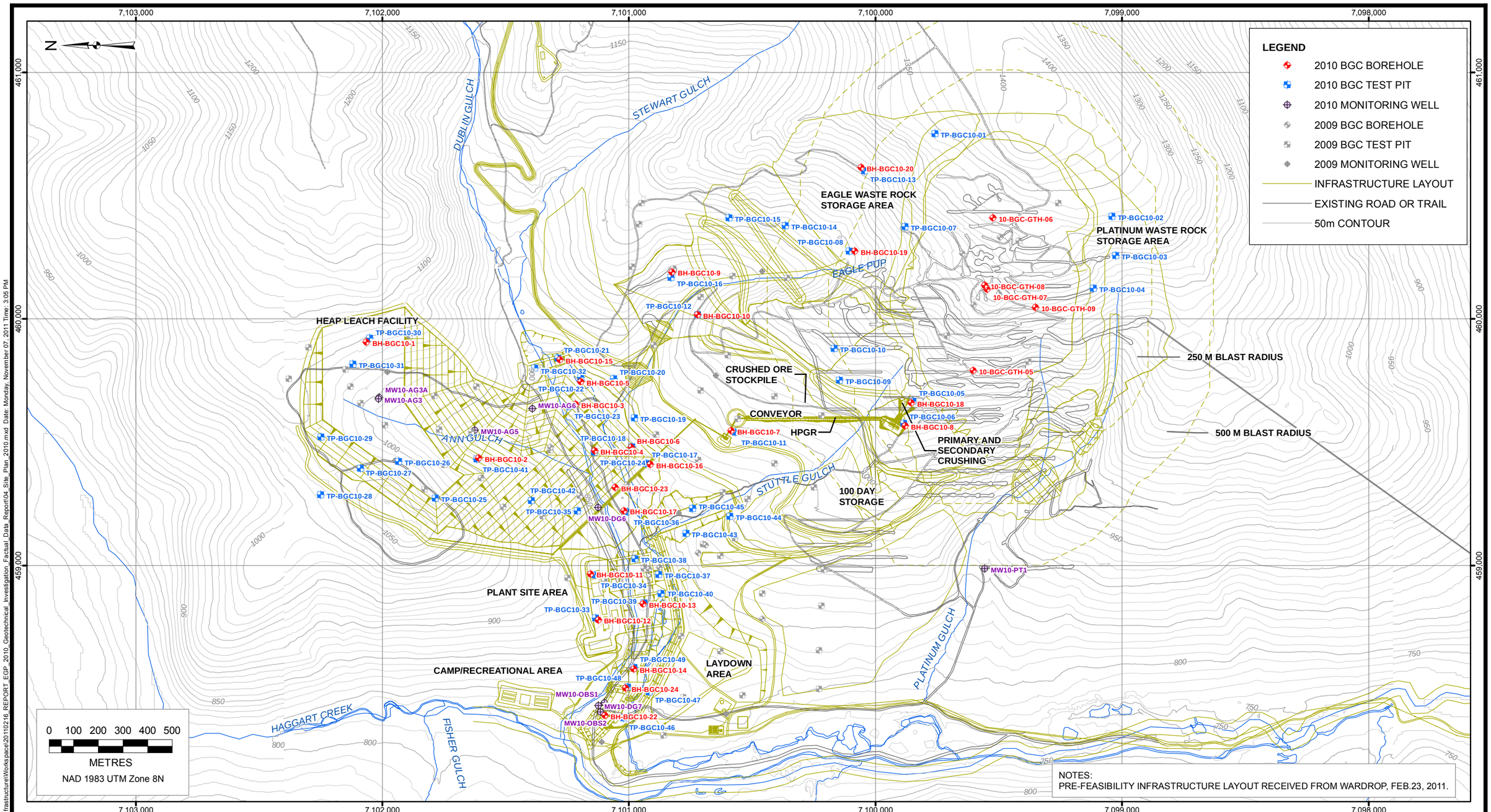


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PROJECT: EAGLE GOLD PROJECT
2010 GEOTECHNICAL INVESTIGATION FOR MINE SITE INFRASTRUCTURE FACTUAL DATA REPORT

TITLE: TEST HOLE LOCATION PLAN - 2010 FIELD INVESTIGATIONS

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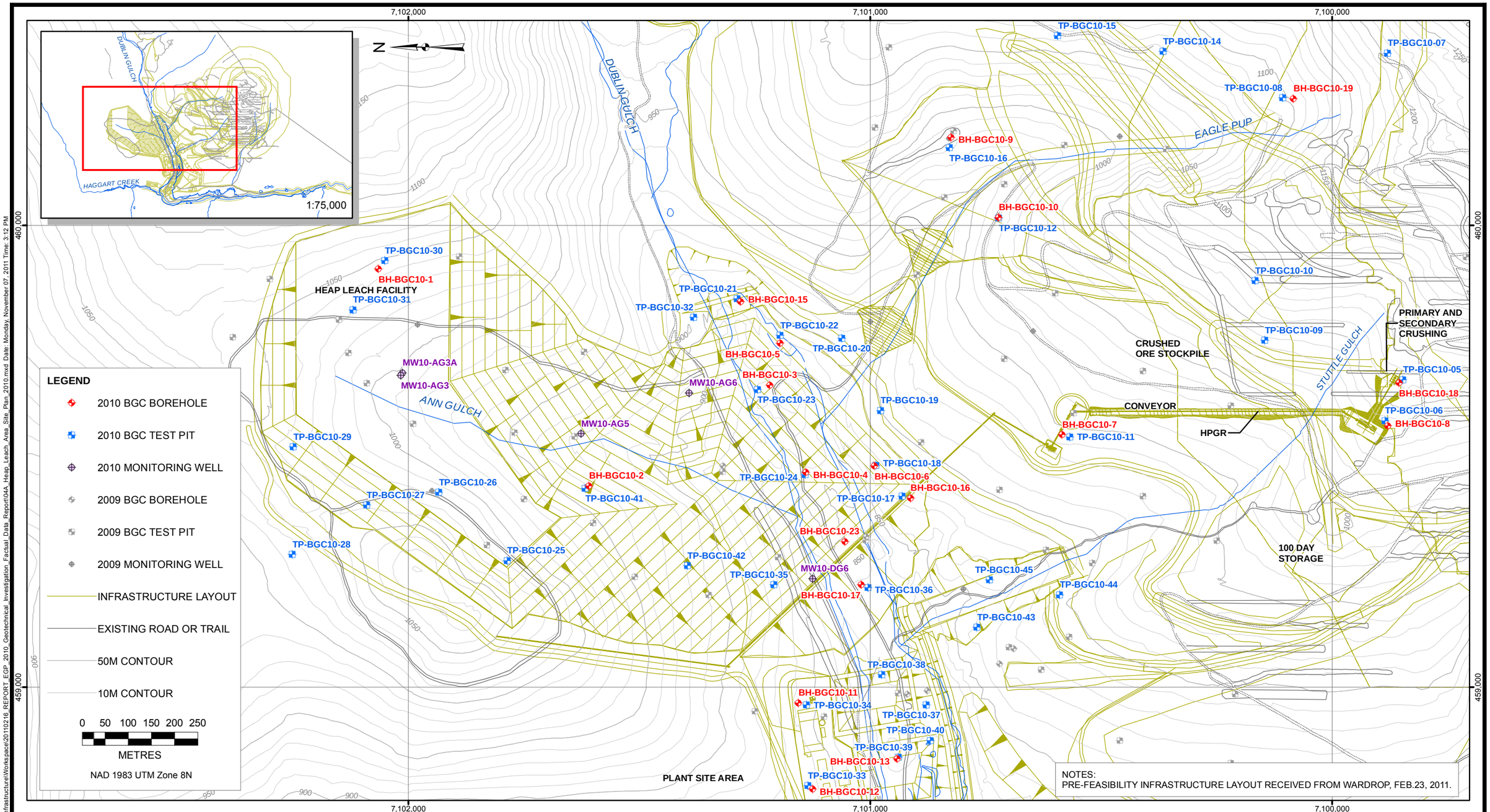




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CLIENT:
VICTORIA GOLD CORPORATION

PROJECT:
EAGLE GOLD PROJECT
2010 GEOTECHNICAL INVESTIGATION FOR MINE SITE INFRASTRUCTURE FACTUAL DATA REPORT

TITLE:
TEST HOLE LOCATION PLAN - 2010 FIELD INVESITIGATIONS
HEAP LEACH FACILITY

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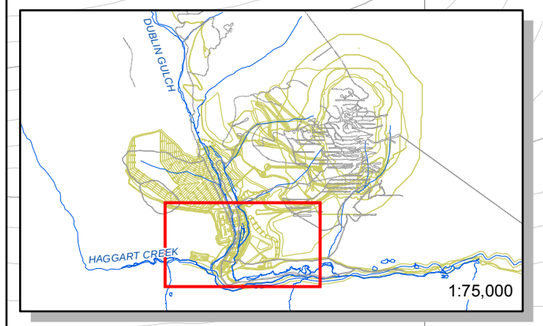
PLANT SITE AREA

CAMP/RECREATION AREA

LAYDOWN AREA

TP-BGC10-43
TP-BGC10-38
BH-BGC10-11
TP-BGC10-34
TP-BGC10-37
TP-BGC10-40
TP-BGC10-39
BH-BGC10-13
TP-BGC10-33
BH-BGC10-12
TP-BGC10-49
BH-BGC10-14
TP-BGC10-48
BH-BGC10-24
TP-BGC10-47
MW10-OBS1
MW10-DG7
MW10-OBS2
BH-BGC10-22
TP-BGC10-46

1000 850 800 850 800




0 50 100 150 200 250
METRES
NAD 1983 UTM Zone 8N

LEGEND
- 2010 BGC BOREHOLE
- 2010 BGC TEST PIT
- 2010 MONITORING WELL
- 2009 BGC BOREHOLE
- 2009 BGC TEST PIT
- 2009 MONITORING WELL
- EXISTING ROAD OR TRAIL
- INFRASTRUCTURE LAYOUT
- 50m CONTOUR
- 10m CONTOUR

NOTES:
PRE-FEASIBILITY INFRASTRUCTURE LAYOUT RECEIVED FROM WARDROP, FEB.23, 2011.

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| 0 | NOV.2011 | ISSUED WITH FINAL REPORT | LL | DW | PQ |

SCALE: 1:5,000
DATE: NOV 2011
DRAWN: LL
DESIGNED: LGT
CHECKED: AKU
APPROVED: PQ

PROFESSIONAL SEAL:

BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

CLIENT: VICTORIA GOLD CORPORATION

PROJECT: EAGLE GOLD PROJECT
2010 GEOTECHNICAL INVESTIGATION FOR MINE SITE INFRASTRUCTURE FACTUAL DATA REPORT

TITLE: TEST HOLE LOCATION PLAN - 2010 FIELD INVESTIGATIONS PLANT SITE AREA

| PROJECT No.: | DWG No.: | REV.: |
|---|---|---|
| 0792-004 | 04B | 0 |

DWG TO BE READ WITH BGC REPORT TITLED "EAGLE GOLD PROJECT 2010 GEOTECHNICAL INVESTIGATION FOR MINE SITE INFRASTRUCTURE FACTUAL DATA REPORT" DATED NOVEMBER 2011

7,101,000 7,100,000 7,099,000

460,000

N

EAGLE WASTE ROCK STORAGE AREA

PLATINUM WASTE ROCK STORAGE AREA

CRUSHED ORE STOCKPILE

PRIMARY CRUSHING

SECONDARY CRUSHING

HPGR

EAGLE PUP

STUTTLE GULCH

TP-BGC10-01
BH-BGC10-20
TP-BGC10-13
TP-BGC10-15
TP-BGC10-14
TP-BGC10-07
10-BGC-GTH-06
TP-BGC10-02
TP-BGC10-08
BH-BGC10-19
TP-BGC10-03
BH-BGC10-9
TP-BGC10-16
10-BGC-GTH-08
TP-BGC10-04
10-BGC-GTH-07r
10-BGC-GTH-09
BH-BGC10-10
TP-BGC10-12
TP-BGC10-10
TP-BGC10-21
BH-BGC10-15
10-BGC-GTH-05
TP-BGC10-22
TP-BGC10-20
BH-BGC10-5
TP-BGC10-09
TP-BGC10-05
BH-BGC10-18
BH-BGC10-3
TP-BGC10-23
TP-BGC10-19
TP-BGC10-06
BH-BGC10-8
BH-BGC10-7
TP-BGC10-11
TP-BGC10-18
BH-BGC10-4
BH-BGC10-6
TP-BGC10-24
BH-BGC10-16
TP-BGC10-17
BH-BGC10-23
MW10-DG6
BH-BGC10-17
TP-BGC10-35
TP-BGC10-36
TP-BGC10-45
TP-BGC10-44

1250 1300 1350 1400 1450 1300 1250 1200 1150 1100 1050 1000 950 900 850

250 M BLAST RADIUS

500 M BLAST RADIUS

DUBLIN GULCH

HAGGART CREEK

1:75,000

**LEGEND**

- 2010 BGC BOREHOLE
- 2010 BGC TEST PIT
- 2010 MONITORING WELL
- 2009 BGC BOREHOLE
- 2009 BGC TEST PIT
- 2009 MONITORING WELL
- INFRASTRUCTURE LAYOUT
- EXISTING ROAD OR TRAIL
- 50M CONTOUR
- 10M CONTOUR

0 50 100 150 200 250

METRES

NAD 1983 UTM Zone 8N

NOTES:
PRE-FEASIBILITY INFRASTRUCTURE LAYOUT RECEIVED FROM WARDROP, FEB.23, 2011.



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SCALE: 1:8,000
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CHECKED: AKU
APPROVED: PQ

PROFESSIONAL SEAL:

BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

CLIENT: VICTORIA GOLD CORPORATION

PROJECT: EAGLE GOLD PROJECT
2010 GEOTECHNICAL INVESTIGATION FOR MINE
SITE INFRASTRUCTURE FACTUAL DATA REPORT

TITLE: TEST HOLE LOCATION PLAN - 2010 FIELD INVESTIGATIONS
WASTE ROCK STORAGE AREAS

| PROJECT No.: | DWG No.: | REV.: |
|---|---|---|
| 0792-004 | 04C | 0 |

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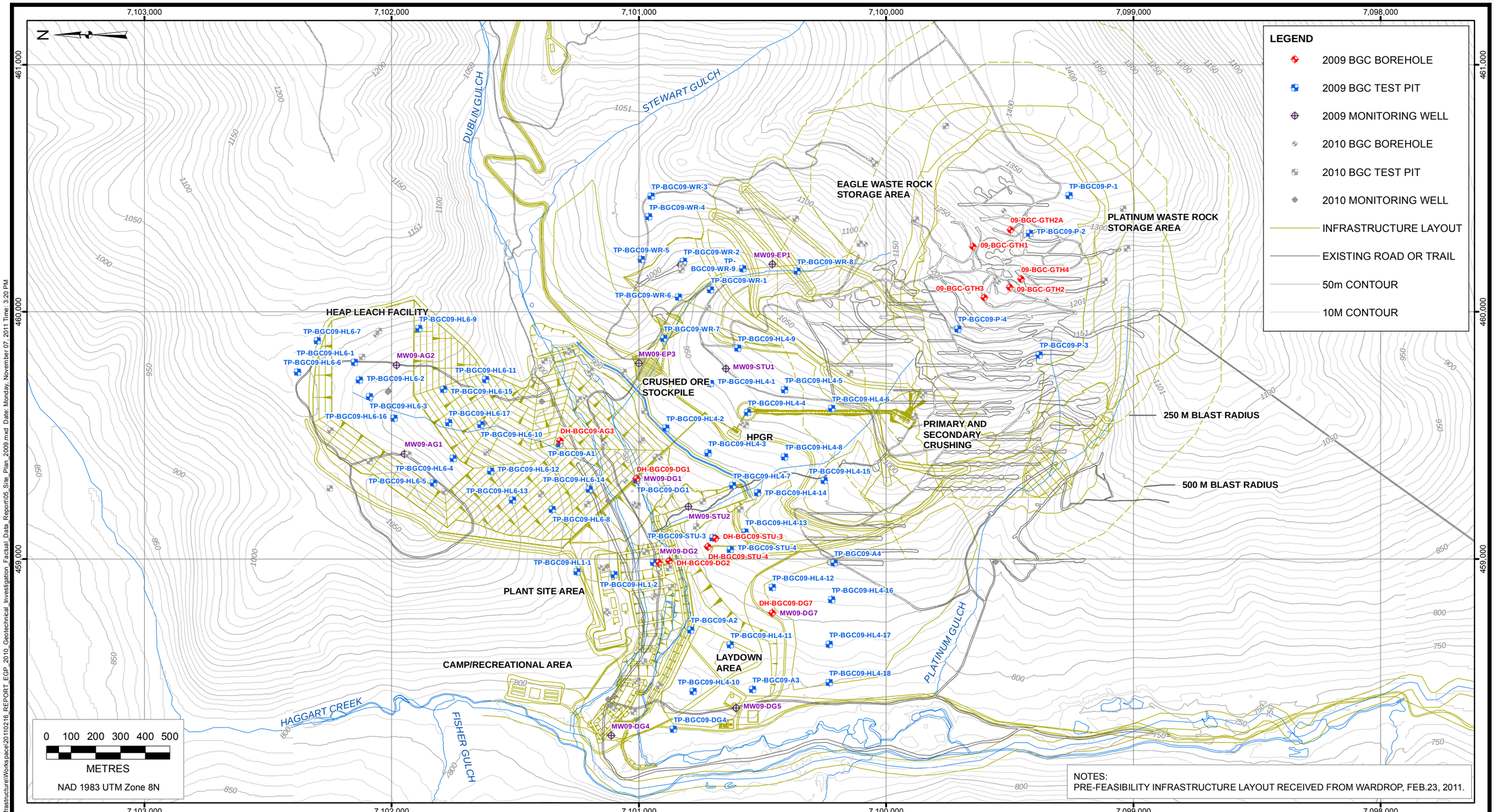


NOTES:
PRE-FEASIBILITY INFRASTRUCTURE LAYOUT RECEIVED FROM WARDROP, FEB.23, 2011.



| REV. | DATE | REVISION NOTES | DRAWN | CHECK | APPR. |
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| DRAWN: | LL |
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| CHECKED: | AKU |
| APPROVED: | PQ |

PROFESSIONAL SEAL:

BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

CLIENT:
VICTORIA GOLD CORPORATION

PROJECT:
EAGLE GOLD PROJECT
2010 GEOTECHNICAL INVESTIGATION FOR MINE SITE INFRASTRUCTURE FACTUAL DATA REPORT

TITLE:
TEST HOLE LOCATION PLAN - 2009 FIELD INVESTIGATIONS

| PROJECT No.: | DWG No.: | REV.: |
|---|---|---|
| 0792-004 | 05 | 0 |

DWG TO BE READ WITH BGC REPORT TITLED "EAGLE GOLD PROJECT 2010 GEOTECHNICAL INVESTIGATION FOR MINE SITE INFRASTRUCTURE FACTUAL DATA REPORT" DATED NOVEMBER 2011

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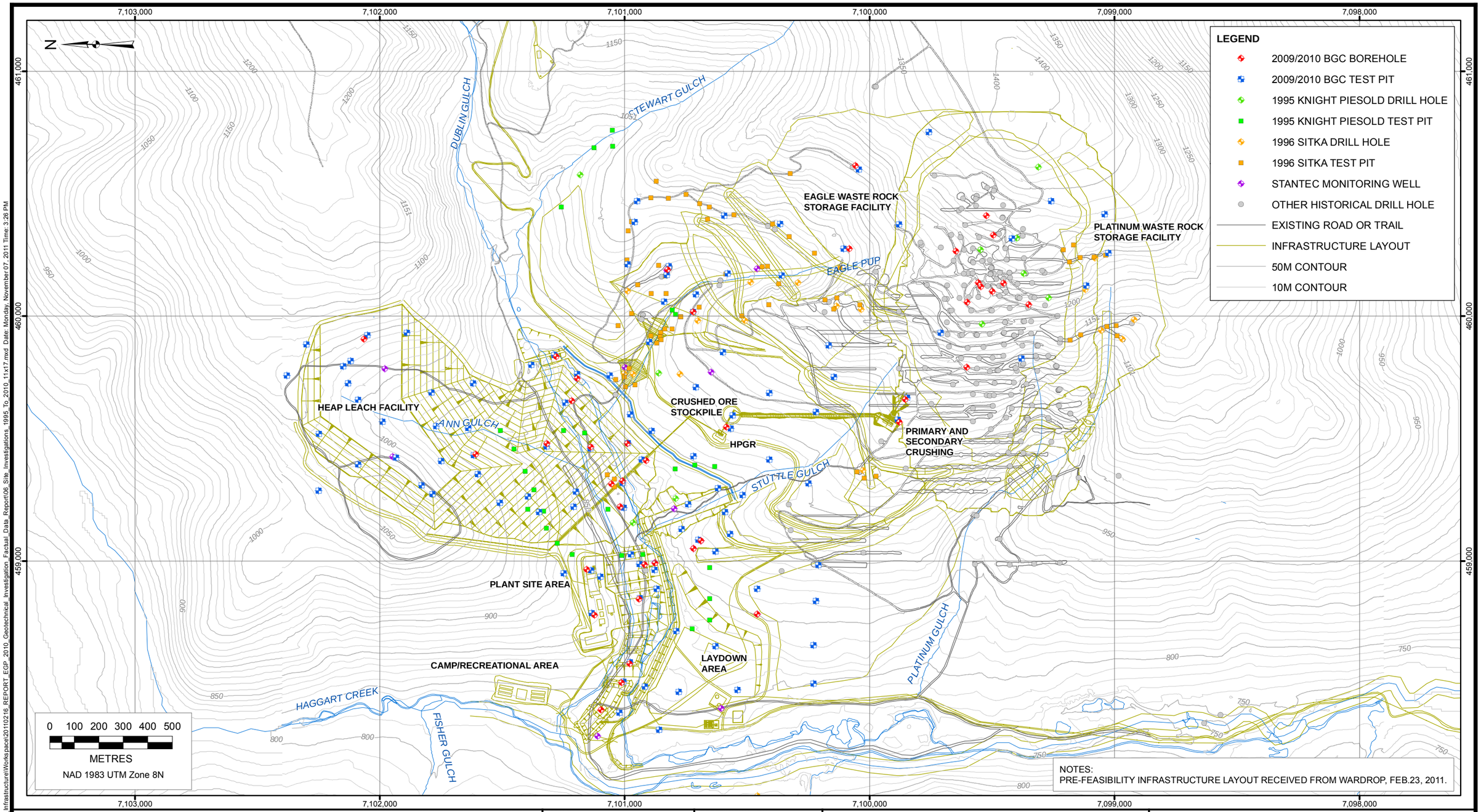


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| DESIGNED: | LGT |
| CHECKED: | AKU |
| APPROVED: | PQ |

PROFESSIONAL SEAL:

BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

CLIENT:
VICTORIA GOLD CORPORATION

PROJECT:
EAGLE GOLD PROJECT
2010 GEOTECHNICAL INVESTIGATION FOR MINE
SITE INFRASTRUCTURE FACTUAL DATA REPORT

TITLE:
SITE INVESTIGATIONS 1995 TO 2010

| PROJECT No.: | DWG No.: | REV.: |
|---|---|---|
| 0792-004 | 06 | 0 |

DWG TO BE READ WITH BGC REPORT TITLED "EAGLE GOLD PROJECT 2010 GEOTECHNICAL INVESTIGATION FOR MINE SITE INFRASTRUCTURE FACTUAL DATA REPORT" DATED NOVEMBER 2011

7,102,000 7,100,000 7,098,000

460,000

N

Olympia

Dublin Gulch

Stewart Gulch

Lynx Creek

Eagle Pup

Ann Gulch

Sturtle Gulch

Platinum Gulch

Haggart Creek

Fisher Gulch

Gil Gulch

**LEGEND**

- FROZEN SOIL - 2010
- NO FROZEN SOIL - 2010
- FROZEN SOIL - HISTORICAL
- NO FROZEN SOIL - HISTORICAL
- ROAD OR TRAIL
- INFRASTRUCTURE LAYOUT

200 0 200 400

METRES

NAD 1983 UTM Zone 8N

NOTES:
1. BASED ON INVESTIGATION PROGRAMS IN SUMMER 1995 (KNIGHT PIESOLD 1996); SUMMER 1996 (SITKA 1996), SUMMER 2009 (BGC 2010), SUMMER 2010 (THIS STUDY).
2. PRE-FEASIBILITY INFRASTRUCTURE LAYOUT RECEIVED FROM WARDROP, FEB.23, 2011.

7,102,000 7,100,000 7,098,000

460,000

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| DRAWN: | LL |
| DESIGNED: | LGT |
| CHECKED: | AKU |
| APPROVED: | PQ |

PROFESSIONAL SEAL:

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AN APPLIED EARTH SCIENCES COMPANY

CLIENT: VICTORIA GOLD CORPORATION

PROJECT: EAGLE GOLD PROJECT
2010 GEOTECHNICAL INVESTIGATION FOR MINE SITE INFRASTRUCTURE FACTUAL DATA REPORT

TITLE: FROZEN GROUND OBSERVATIONS

| PROJECT No.: | DWG No.: | REV.: |
|---|---|---|
| 0792-004 | 07 | 0 |

DWG TO BE READ WITH BGC REPORT TITLED "EAGLE GOLD PROJECT 2010 GEOTECHNICAL INVESTIGATION FOR MINE SITE INFRASTRUCTURE FACTUAL DATA REPORT" DATED NOVEMBER 2011

Material Groups (Visually Assessed at Ground Surface, May 2010)

1: SAND (SW), gravelly, trace to some silt, trace cobbles, well graded. Large clasts (cobbles) are mainly equant to elongated sub-rounded to rounded granodiorite, strong (R4). Particles up to large gravel size are a mix of weak to strong (R2-R4) metasedimentary rock and strong (R4) granodiorite, mainly metasedimentary.

2: GRAVEL (GW), fine to coarse, sandy, trace to some boulders, trace cobbles, trace silt, well graded. Large clasts (cobbles) are mainly equant to elongated sub-rounded to rounded granodiorite, moderately strong to strong (R3-R4).

3: GRAVEL (GP), coarse and cobbles, some boulders, trace sand, gap graded. Clasts are mainly sub-rounded to rounded granodiorite, strong (R4).

4: COBBLES AND BOULDERS, some gravel, trace sand, gap graded. Clasts are mainly equant sub-rounded to rounded granodiorite, strong (R4).

5: GRAVEL (GW), fine to coarse, sandy, cobbley, trace to some boulders, well graded. Clasts are mainly sub-rounded to rounded granodiorite, strong (R4).

6: SILT (ML), some sand, mainly fine, trace clay, non to slightly plastic, brownish grey, moist, homogeneous, rapid to moderately rapid dilatancy.

458,400 458,600 458,800 459,000 459,200 459,400 459,600 459,800

7,101,200 7,101,000 7,100,800 7,100,600

TP-BGC10-32 BH-BGC10-15 TP-BGC10-21 TP-BGC10-23 S8 BH-BGC10-3 BH-BGC10-5 TP-BGC10-22 TP-BGC10-35 BH-BGC10-11 TP-BGC10-33 TP-BGC10-34 BH-BGC10-12 BH-BGC10-4 TP-BGC10-24 BH-BGC10-22 S7 BH-BGC10-23 TP-BGC10-20 TP-BGC10-46 BH-BGC10-24 TP-BGC10-48 BH-BGC10-17 TP-BGC10-36 BH-BGC10-6 TP-BGC10-18 TP-BGC10-19 BH-BGC10-14 TP-BGC10-49 TP-BGC10-38 S2 BH-BGC10-13 TP-BGC10-17 TP-BGC10-47 S3 TP-BGC10-39 S5 S6 BH-BGC10-16 S4 TP-BGC10-37 S1 TP-BGC10-40 TP-BGC10-43 TP-BGC10-45 S9 S10 TP-BGC10-44 BH-BGC10-7 TP-BGC10-11

DUBLIN GULCH HAGGART CREEK 1:100,000

0 50 100 150
METRES
NAD 1983 UTM Zone 8N

NOTES:
PRE-FEASIBILITY INFRASTRUCTURE LAYOUT RECEIVED FROM WARDROP, FEB.23, 2011.

**LEGEND**

**MATERIAL GROUPS**
- 1
- 2
- 3
- 4
- 5
- 6

- 2010 BGC BOREHOLE
- 2010 BGC TEST PIT
- S4 SAMPLE
- INFRASTRUCTURE LAYOUT
- ROAD OR TRAIL
- 10M CONTOUR



| REV. | DATE | REVISION NOTES | DRAWN | CHECK | APPR. |
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APPROVED: PQ

PROFESSIONAL SEAL:

BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

CLIENT: VICTORIA GOLD CORPORATION

PROJECT: EAGLE GOLD PROJECT
2010 GEOTECHNICAL INVESTIGATION FOR MINE SITE INFRASTRUCTURE FACTUAL DATA REPORT

TITLE: PLACER TAILINGS MATERIAL GROUPS

| PROJECT No.: | DWG No.: | REV.: |
|---|---|---|
| 0792-004 | 08 | 0 |

X:\Projects\0792 Victoria Gold\004_EG_FS_Infrastructure\Workspace\20110216_REPORT_EGP_2010_Geotechnical_Investigation_Factual_Data_Report\08_Placer_Tailings_Material_Groups.mxd Date: Monday, November 07, 2011 Time: 3:36 PM

DWG TO BE READ WITH BGC REPORT TITLED "EAGLE GOLD PROJECT 2010 GEOTECHNICAL INVESTIGATION FOR MINE SITE INFRASTRUCTURE FACTUAL DATA REPORT" DATED NOVEMBER 2011

# APPENDIX A
# SUMMARY TABLES

**Table A.1 – 2010 Sample Summary Table**

| Test Location | Coordinates | | Sample ID | Depth (m) | | Field Sample Description (USCS) | BGC Staff | Date | Comments |
|---|---|---|---|---|---|---|---|---|---|
| | Northing | Easting | | From | To | | | | |
| TP-BGC10-01 | 460757 | 7099759 | M1 | 1.0 | | Cobbles & Boulders | AKU | 7-Aug-10 | |
| TP-BGC10-02 | 460417 | 7099041 | M1 | 0.8 | | SM | AKU | 7-Aug-10 | |
| TP-BGC10-03 | 460256 | 7099026 | M1 | 1.0 | | Cobbles & Boulders | AKU | 7-Aug-10 | |
| TP-BGC10-03 | 460256 | 7099026 | M2 | 1.7 | | SP | AKU | 7-Aug-10 | |
| TP-BGC10-05 | 459666 | 7099847 | M1 | 0.5 | | Cobbles & Gravel | AKU | 7-Aug-10 | |
| TP-BGC10-06 | 459577 | 7099886 | M1 | 0.5 | | GW | AKU | 8-Aug-10 | |
| TP-BGC10-06 | 459577 | 7099886 | M2 | 1.1 | | ML | AKU | 8-Aug-10 | |
| TP-BGC10-06 | 459577 | 7099886 | M3 | 3.7 | | W3 Bedrock | AKU | 8-Aug-10 | Bulk Sample |
| TP-BGC10-07 | 460373 | 7099880 | M1 | 2.5 | | SM | AKU | 8-Aug-10 | |
| TP-BGC10-08 | 460276 | 7100107 | M1 | 0.6 | | SM | AKU | 8-Aug-10 | |
| TP-BGC10-08 | 460276 | 7100107 | M2 | 1.0 | | SM | AKU | 8-Aug-10 | |
| TP-BGC10-10 | 459888 | 7100167 | M1 | 0.9 | | SM and Cobbles | AKU | 8-Aug-10 | |
| TP-BGC10-11 | 459542 | 7100568 | M1 | 1.0 | | SM | AKU | 8-Aug-10 | |
| TP-BGC10-11 | 459542 | 7100568 | M2 | 1.8 | | SM | AKU | 8-Aug-10 | Frozen, Excess Ice, Bulk Sample |
| TP-BGC10-11 | 459542 | 7100568 | M3 | 3.5 | | GW | AKU | 8-Aug-10 | |
| TP-BGC10-11 | 459542 | 7100568 | M4 | 4.3 | | GW | AKU | 8-Aug-10 | Frozen, Possible Excess Ice |
| TP-BGC10-12 | 460016 | 7100722 | M2 | 3.0 | | ML | AKU | 8-Aug-10 | |
| TP-BGC10-12 | 460016 | 7100722 | M3 | 8.5 | | W4 Bedrock | AKU | 8-Aug-10 | Bulk Sample |
| TP-BGC10-13 | 460600 | 7100045 | M1 | 1.2 | | GW | AKU | 9-Aug-10 | |

| Test Location | Coordinates | | Sample ID | Depth (m) | | Field Sample Description (USCS) | BGC Staff | Date | Comments |
|---|---|---|---|---|---|---|---|---|---|
| | Northing | Easting | | From | To | | | | |
| TP-BGC10-13 | 460600 | 7100045 | M2 | 3.8 | | SM | AKU | 9-Aug-10 | |
| TP-BGC10-14 | 460377 | 7100366 | M1 | 0.8 | | SM | AKU | 9-Aug-10 | |
| TP-BGC10-14 | 460377 | 7100366 | M2 | 2.0 | | SM | AKU | 9-Aug-10 | |
| TP-BGC10-14 | 460377 | 7100366 | M3 | 3.2 | | SW | AKU | 9-Aug-10 | Frozen |
| TP-BGC10-14 | 460377 | 7100366 | M4 | 5.2 | | SM | AKU | 9-Aug-10 | |
| TP-BGC10-14 | 460377 | 7100366 | M5 | 8.0 | | SM | AKU | 9-Aug-10 | Bulk Sample |
| TP-BGC10-15 | 460410 | 7100594 | M1 | 1.5 | | SM | AKU | 9-Aug-10 | |
| TP-BGC10-15 | 460410 | 7100594 | M2 | 3.8 | | SM | AKU | 9-Aug-10 | |
| TP-BGC10-15 | 460410 | 7100594 | M2 | 3.8 | | SM | AKU | 9-Aug-10 | Bulk Sample |
| TP-BGC10-17 | 459421 | 7100941 | M1 | 5.0 | | ML | AKU | 10-Aug-10 | |
| TP-BGC10-18 | 459480 | 7100988 | M1 | 3.0 | | SM | AKU | 9-Aug-10 | |
| TP-BGC10-18 | 459480 | 7100988 | M2 | 5.0 | | SM | AKU | 9-Aug-10 | |
| TP-BGC10-18 | 459480 | 7100988 | M3 | 7.3 | | SP and GP | AKU | 9-Aug-10 | |
| TP-BGC10-19 | 459599 | 7100978 | M1 | 1.0 | | SM | AKU | 10-Aug-10 | |
| TP-BGC10-19 | 459599 | 7100978 | M2 | 1.8 | | SM | AKU | 10-Aug-10 | Frozen, Excess Ice |
| TP-BGC10-21 | 459841 | 7101288 | M1 | 5.0 | | CL | AKU | 10-Aug-10 | |
| TP-BGC10-21 | 459841 | 7101288 | M2 | 6.0 | | GM | AKU | 10-Aug-10 | |
| TP-BGC10-23 | 459645 | 7101244 | M1 | 1.0 | | SW | AKU | 10-Aug-10 | |
| TP-BGC10-26 | 459422 | 7101934 | M1 | 2.5 | | W4Bedrock | AKU | 11-Aug-10 | |
| TP-BGC10-27 | 459394 | 7102090 | M1 | 3.5 | | GP | AKU | 11-Aug-10 | |
| TP-BGC10-28 | 459287 | 7102251 | M1 | 0.4 | | SM | AKU | 11-Aug-10 | Frozen, Excess Ice |
| TP-BGC10-30 | 459923 | 7102051 | M1 | 1.0 | | SM/SW | AKU | 11-Aug-10 | |

| Test Location | Coordinates | | Sample ID | Depth (m) | | Field Sample Description (USCS) | BGC Staff | Date | Comments |
|---|---|---|---|---|---|---|---|---|---|
| | Northing | Easting | | From | To | | | | |
| TP-BGC10-31 | 459817 | 7102120 | M1 | 3.2 | | ML | AKU | 11-Aug-10 | |
| TP-BGC10-32 | 459801 | 7101382 | M1 | 4.0 | | SM/SW | AKU | 12-Aug-10 | |
| TP-BGC10-33 | 458787 | 7101135 | M1 | 1.0 | | ML | AKU | 12-Aug-10 | |
| TP-BGC10-33 | 458787 | 7101135 | M2 | 2.0 | | GW | AKU | 12-Aug-10 | |
| TP-BGC10-34 | 458961 | 7101138 | M1 | 4.0 | | SM | AKU | 12-Aug-10 | |
| TP-BGC10-37 | 459962 | 7100879 | M1 | 2.0 | | SM | AKU | 14-Aug-10 | |
| TP-BGC10-37 | 459962 | 7100879 | M2 | 6.0 | | ML | AKU | 14-Aug-10 | |
| TP-BGC10-37 | 459962 | 7100879 | M3 | 6.5 | | ML | AKU | 14-Aug-10 | |
| TP-BGC10-38 | 459027 | 7100975 | M1 | 1.5 | | SW | AKU | 14-Aug-10 | |
| TP-BGC10-38 | 459027 | 7100975 | M1 | 1.5 | | SW | AKU | 14-Aug-10 | Bulk Sample |
| TP-BGC10-39 | 458848 | 7100939 | M1 | 3.5 | | SM | AKU | 14-Aug-10 | |
| TP-BGC10-40 | 458885 | 7100870 | M1 | 5.5 | | SP | AKU | 14-Aug-10 | |
| TP-BGC10-41 | 459431 | 710161 | M1 | 1.2 | | ML | AKU | 20-Aug-10 | |
| TP-BGC10-42 | 459263 | 7101396 | M1 | 1.0 | | SM | AKU | 20-Aug-10 | Frozen, Excess Ice |
| TP-BGC10-42 | 459263 | 7101396 | M2 | 2.0 | | ML | AKU | 20-Aug-10 | Frozen, Excess Ice |
| TP-BGC10-42 | 459263 | 7101396 | M3 | 3.5 | | ML | AKU | 20-Aug-10 | Frozen, Excess Ice |
| TP-BGC10-43 | 459130 | 7100769 | M1 | 0.8 | | SM | AKU | 21-Aug-10 | |
| TP-BGC10-43 | 459130 | 7100769 | M2 | 4.0 | | SM | AKU | 21-Aug-10 | |
| TP-BGC10-43 | 459130 | 7100769 | M3 | 5.2 | | SM | AKU | 21-Aug-10 | |
| TP-BGC10-44 | 459200 | 7100590 | M1 | 2.0 | | SW | AKU | 21-Aug-10 | Bulk Sample |
| TP-BGC10-44 | 459200 | 7100590 | M1 | 2.0 | | SW | AKU | 21-Aug-10 | |
| TP-BGC10-45 | 459232 | 7100742 | M1 | 5.5 | | OL | AKU | 21-Aug-10 | |

| Test Location | Coordinates | | Sample ID | Depth (m) | | Field Sample Description (USCS) | BGC Staff | Date | Comments |
|---|---|---|---|---|---|---|---|---|---|
| | Northing | Easting | | From | To | | | | |
| TP-BGC10-46 | 458380 | 7101022 | M1 | 2.0 | | SW | AKU | 21-Aug-10 | |
| TP-BGC10-46 | 458380 | 7101022 | M1 | 2.0 | | SW | AKU | 21-Aug-10 | Bulk Sample |
| TP-BGC10-46 | 458380 | 7101022 | M2 | 6.1 | | SM | AKU | 21-Aug-10 | |
| TP-BGC10-48 | 458508 | 7100106 | M1 | 2.0 | | SM | AKU | 22-Aug-10 | |
| TP-BGC10-48 | 458508 | 7100106 | M2 | 3.0 | | CH | AKU | 22-Aug-10 | |
| TP-BGC10-49 | 458586 | 7100979 | M1 | 2.5 | | ML | AKU | 22-Aug-10 | |
| Tailings Group 2 | 458531 | 7100889 | S1 | Surface | | GW | LGT | 26-May-10 | See Drawing 8 |
| Tailings Group 1 | 458582 | 7100962 | S2 | Surface | | SW | LGT | 26-May-10 | See Drawing 8 |
| Tailings Group 5 | 458758 | 7100933 | S3 | Surface | | GW | LGT | 26-May-10 | See Drawing 8 |
| Tailings Group 2 | 458962 | 7100906 | S4 | Surface | | GW | LGT | 26-May-10 | See Drawing 8 |
| Tailings Group 3 | 459097 | 7100919 | S5 | Surface | | GP | LGT | 26-May-10 | See Drawing 8 |
| Tailings Group 8 | 459135 | 7100919 | S6 | Surface | | GP | LGT | 26-May-10 | See Drawing 8 |
| Tailings Group 5 | 459337 | 7101075 | S7 | Surface | | GW | LGT | 26-May-10 | See Drawing 8 |
| Tailings Group 5 | 459680 | 7101249 | S8 | Surface | | GW | LGT | 26-May-10 | See Drawing 8 |
| Tailings Group 1 | 458675 | 7100774 | S9 | Surface | | SW | LGT | 26-May-10 | See Drawing 8 |
| Tailings Group 6 | 458701 | 7100763 | S10 | Surface | | ML | LGT | 26-May-10 | See Drawing 8 |
| BH-BGC10-05 | 459744 | 7101195 | G1 | 7.0 | 7.3 | GW | AW | 17-May-10 | Fracture infilling material |
| BH-BGC10-13 | 458844 | 7100942 | SPT1 | 0.8 | 1.1 | GW/SW | LGT | 14-May-10 | |
| BH-BGC10-13 | 458844 | 7100942 | SPT2 | 1.5 | 2.0 | GW/SW | LGT | 14-May-10 | |
| BH-BGC10-13 | 458844 | 7100942 | SPT3 | 2.3 | 2.7 | GW/SW | LGT | 14-May-10 | |
| BH-BGC10-13 | 458844 | 7100942 | SPT4 | 3.0 | 3.5 | GW/SW | LGT | 14-May-10 | |
| BH-BGC10-13 | 458844 | 7100942 | SPT5 | 3.8 | 4.2 | GW/SW | LGT | 14-May-10 | |

| Test Location | Coordinates | | Sample ID | Depth (m) | | Field Sample Description (USCS) | BGC Staff | Date | Comments |
|---|---|---|---|---|---|---|---|---|---|
| | Northing | Easting | | From | To | | | | |
| BH-BGC10-13 | 458844 | 7100942 | SPT6 | 4.5 | 4.8 | GW/SW | LGT | 14-May-10 | |
| BH-BGC10-14 | 458580 | 7100980 | G1 | 0.0 | 1.5 | GW/SW | LGT | 12-May-10 | |
| BH-BGC10-14 | 458580 | 7100980 | G2 | 2.0 | 2.8 | ML/SM | LGT | 12-May-10 | |
| BH-BGC10-14 | 458580 | 7100980 | G3 | 2.8 | 3.0 | ML/SM | LGT | 12-May-10 | |
| BH-BGC10-14 | 458580 | 7100980 | G4 | 3.0 | 4.1 | ML/SM | LGT | 12-May-10 | |
| BH-BGC10-14 | 458580 | 7100980 | G5 | 4.1 | 4.5 | SM/ML | LGT | 12-May-10 | |
| BH-BGC10-14 | 458580 | 7100980 | G6 | 4.5 | 6.0 | SM/ML | LGT | 12-May-10 | |
| BH-BGC10-14 | 458580 | 7100980 | G7 | 6.0 | 7.5 | ML | LGT | 12-May-10 | |
| BH-BGC10-14 | 458580 | 7100980 | G8 | 7.5 | 8.3 | SM | TW | 12-May-10 | |
| BH-BGC10-14 | 458580 | 7100980 | G9 | 8.3 | 9.3 | SM | TW | 12-May-10 | |
| BH-BGC10-14 | 458580 | 7100980 | SPT1 | 1.5 | 2.0 | SW-Boulders | LGT | 12-May-10 | |
| BH-BGC10-14 | 458580 | 7100980 | SPT2 | 3.0 | 3.5 | SW/GW | LGT | 12-May-10 | |
| BH-BGC10-14 | 458580 | 7100980 | SPT3 | 4.5 | 5.0 | SW/GW | LGT | 12-May-10 | |
| BH-BGC10-14 | 458580 | 7100980 | SPT4 | 6.0 | 6.5 | SW/GW | TW | 12-May-10 | |
| BH-BGC10-14 | 458580 | 7100980 | SPT5 | 7.5 | 8.0 | SM/ML | LGT | 12-May-10 | |
| BH-BGC10-14 | 458580 | 7100980 | SPT6 | 9.5 | 10.0 | GW | TW | 12-May-10 | |
| BH-BGC10-14 | 458580 | 7100980 | SPT7 | 10.5 | 11.0 | GW | LGT | 12-May-10 | |
| BH-BGC10-14 | 458580 | 7100980 | SPT8 | 12.0 | 12.5 | GW | LGT | 12-May-10 | |
| BH-BGC10-14 | 458580 | 7100980 | SPT9 | 15.0 | 15.5 | SM | LGT | 12-May-10 | |
| BH-BGC10-14 | 458580 | 7100980 | SPT11 | 16.4 | 16.9 | SM | LGT | 12-May-10 | |
| BH-BGC10-14 | 458580 | 7100980 | SPT12 | 18.0 | 18.2 | SM | LGT | 12-May-10 | |
| BH-BGC10-14 | 458580 | 7100980 | SPT13 | 19.5 | 19.8 | GP | LGT | 12-May-10 | |

| Test Location | Coordinates | | Sample ID | Depth (m) | | Field Sample Description (USCS) | BGC Staff | Date | Comments |
|---|---|---|---|---|---|---|---|---|---|
| | Northing | Easting | | From | To | | | | |
| BH-BGC10-14 | 458580 | 7100980 | SPT14 | 20.6 | 20.7 | GP | LGT | 12-May-10 | |
| BH-BGC10-15 | 459835 | 7101280 | G1 | 9.2 | 9.4 | GW | AW | 18-May-10 | Fracture infilling material |
| BH-BGC10-15 | 459835 | 7101280 | G2 | 13.2 | 13.4 | CL | AW | 18-May-10 | Fracture infilling material |
| BH-BGC10-22 | 458391 | 7101098 | G1 | 0.0 | 0.5 | SM/ML | TW | 10-May-10 | |
| BH-BGC10-22 | 458391 | 7101098 | G2 | 0.5 | 1.5 | SM/ML | TW | 10-May-10 | |
| BH-BGC10-22 | 458391 | 7101098 | G3 | 2.0 | 3.0 | SM/ML | TW | 10-May-10 | |
| BH-BGC10-22 | 458391 | 7101098 | G4 | 3.0 | 3.5 | SM/ML | LGT | 10-May-10 | |
| BH-BGC10-22 | 458391 | 7101098 | G5 | 3.5 | 3.8 | SM/ML | LGT | 10-May-10 | |
| BH-BGC10-22 | 458391 | 7101098 | G6 | 3.8 | 4.5 | GW/SW | TW | 10-May-10 | |
| BH-BGC10-22 | 458391 | 7101098 | G7 | 4.5 | 6.0 | SW | TW | 10-May-10 | |
| BH-BGC10-22 | 458391 | 7101098 | G8 | 9.5 | 9.9 | SM/ML | TW | 10-May-10 | |
| BH-BGC10-22 | 458391 | 7101098 | G9 | 6.0 | 7.5 | SW | TW | 10-May-10 | |
| BH-BGC10-22 | 458391 | 7101098 | G10 | 7.5 | 9.0 | SM | TW | 10-May-10 | |
| BH-BGC10-22 | 458391 | 7101098 | G11 | 9.0 | 9.9 | SM | TW | 10-May-10 | |
| BH-BGC10-22 | 458391 | 7101098 | G12 | 9.9 | 10.5 | SM/ML | TW | 10-May-10 | |
| BH-BGC10-22 | 458391 | 7101098 | G13 | 10.5 | 12.0 | SM/ML | TW | 10-May-10 | |
| BH-BGC10-22 | 458391 | 7101098 | G14 | 12.0 | 13.5 | SM/ML | TW | 10-May-10 | |
| BH-BGC10-22 | 458391 | 7101098 | G15 | 13.5 | 15.0 | SM/ML | TW | 10-May-10 | |
| BH-BGC10-22 | 458391 | 7101098 | G16 | 15.0 | 16.0 | SM/ML | TW | 10-May-10 | |
| BH-BGC10-22 | 458391 | 7101098 | G17 | 16.0 | 16.5 | SW | TW | 10-May-10 | |
| BH-BGC10-22 | 458391 | 7101098 | SPT1 | 1.5 | 2.0 | ML | AW | 11-May-10 | |
| BH-BGC10-22 | 458391 | 7101098 | SPT2 | 1.5 | 2.0 | ML | LGT | 11-May-10 | |

| Test Location | Coordinates | | Sample ID | Depth (m) | | Field Sample Description (USCS) | BGC Staff | Date | Comments |
|---|---|---|---|---|---|---|---|---|---|
| | Northing | Easting | | From | To | | | | |
| BH-BGC10-22 | 458391 | 7101098 | SPT3 | 3.0 | 3.5 | ML/SM | AW/TW | 11-May-10 | |
| BH-BGC10-22 | 458391 | 7101098 | SPT4 | 4.5 | 5.0 | SW | AW/TW | 11-May-10 | |
| BH-BGC10-22 | 458391 | 7101098 | SPT5 | 4.5 | 5.0 | SW | AW/TW | 11-May-10 | |
| BH-BGC10-22 | 458391 | 7101098 | SPT6 | 6.0 | 6.5 | SW | AW/TW | 11-May-10 | |
| BH-BGC10-22 | 458391 | 7101098 | SPT7 | 7.5 | 8.0 | SM | TW | 11-May-10 | |
| BH-BGC10-22 | 458391 | 7101098 | SPT8 | 9.0 | 9.5 | SM | TW | 11-May-10 | |
| BH-BGC10-22 | 458391 | 7101098 | SPT9 | 10.5 | 11.0 | SM/ML | TW | 11-May-10 | |
| BH-BGC10-22 | 458391 | 7101098 | SPT11 | 13.5 | 14.0 | SM/ML | TW | 11-May-10 | |
| BH-BGC10-22 | 458391 | 7101098 | SPT12 | 15.0 | 15.5 | ML | TW | 11-May-10 | |
| BH-BGC10-24 | 458503 | 7101013 | SPT2 | 3.0 | 3.5 | SW | LGT | 14-May-10 | |
| BH-BGC10-24 | 458503 | 7101013 | SPT3 | 4.5 | 5.0 | ML | LGT | 14-May-10 | |
| BH-BGC10-24 | 458503 | 7101013 | SPT4 | 6.0 | 6.1 | ML | LGT | 14-May-10 | |
| BH-BGC10-24 | 458503 | 7101013 | G1 | 3.5 | 4.5 | SW | LGT | 15-May-10 | |
| BH-BGC10-24 | 458503 | 7101013 | G2 | 6.1 | 7.5 | ML | LGT | 15-May-10 | |
| BH-BGC10-24 | 458503 | 7101013 | G3 | 7.5 | 9.0 | ML | LGT | 15-May-10 | |
| BH-BGC10-24 | 458503 | 7101013 | G4 | 9.0 | 10.5 | ML | LGT | 15-May-10 | |
| BH-BGC10-24 | 458503 | 7101013 | G5 | 10.5 | 12.0 | SP | LGT | 15-May-10 | |
| BH-BGC10-24 | 458503 | 7101013 | G6 | 12.0 | 13.5 | SP | LGT | 15-May-10 | |
| BH-BGC10-24 | 458503 | 7101013 | G7 | 13.5 | 15.0 | SM | LGT | 15-May-10 | |
| BH-BGC10-24 | 458503 | 7101013 | G8 | 15.0 | 15.7 | SM | LGT | 15-May-10 | |
| BH-BGC10-24 | 458503 | 7101013 | G9 | 15.7 | 16.2 | SM | LGT | 15-May-10 | |
| BH-BGC10-22 | 458391 | 7101098 | SPT13 | 16.5 | 17.0 | GW | TW | 11-May-10 | |

| Test Location | Coordinates | | Sample ID | Depth (m) | | Field Sample Description (USCS) | BGC Staff | Date | Comments |
|---|---|---|---|---|---|---|---|---|---|
| | Northing | Easting | | From | To | | | | |
| BH-BGC10-22 | 458391 | 7101098 | SPT14 | 18.0 | 18.5 | GW | TW | 11-May-10 | |
| BH-BGC10-22 | 458391 | 7101098 | SPT15 | 18.5 | 19.0 | GW | TW | 11-May-10 | |
| BH-BGC10-23 | 458391 | 7101098 | G1 | 0.0 | 1.5 | GW | LGT | 16-May-10 | |
| BH-BGC10-23 | 458391 | 7101098 | G2 | 1.5 | 3.0 | SW/GW | LGT | 16-May-10 | |
| BH-BGC10-23 | 458391 | 7101098 | G3 | 3.0 | 4.5 | SW | LGT | 16-May-10 | |
| BH-BGC10-23 | 458391 | 7101098 | G4 | 4.5 | 6.0 | SW | LGT | 16-May-10 | |

**Table A.2 – Moisture Content Summary**

| Test Location | Sample ID | Depth (m) | | Water Content (%) | USCS Classification |
|---|---|---|---|---|---|
| | | From | To | | |
| TP-BGC10-05 | M1 | 0.5 | | 8.5 | GM |
| TP-BGC10-06 | M1 | 0.5 | | 8.8 | GW |
| TP-BGC10-06 | M2 | 1.1 | | 16.0 | ML |
| TP-BGC10-08 | M1 | 0.6 | | 7.8 | SP-SM |
| TP-BGC10-08 | M2 | 1.0 | | 16.7 | SP-SM |
| TP-BGC10-11 | M3 | 3.5 | | 8.7 | GW |
| TP-BGC10-12 | M2 | 3.0 | | 13.6 | CL |
| TP-BGC10-13 | M2 | 3.8 | | 10.8 | SM |
| TP-BGC10-14 | M4 | 5.2 | | 8.9 | SM |
| TP-BGC10-15 | M1 | 1.5 | | 17.0 | SM |
| TP-BGC10-15 | M2 | 3.8 | | 16.9 | SM |
| TP-BGC10-18 | M1 | 3.0 | | 8.0 | GM |
| TP-BGC10-18 | M2 | 5.0 | | 11.0 | CL |
| TP-BGC10-19 | M1 | 1.0 | | 7.7 | GM |
| TP-BGC10-21 | M1 | 5.0 | | 20.0 | CL |
| TP-BGC10-21 | M2 | 6.0 | | 12.8 | GM |
| TP-BGC10-26 | M1 | 2.5 | | 5.7 | GW |
| TP-BGC10-30 | M1 | 1.0 | | 9.7 | GM |
| TP-BGC10-32 | M1 | 4.0 | | 9.6 | GM |
| TP-BGC10-33 | M1 | 1.0 | | 17.4 | ML |
| TP-BGC10-33 | M2 | 2.0 | | 4.7 | GP-GM |
| TP-BGC10-34 | M1 | 4.0 | | 9.9 | SM |
| TP-BGC10-37 | M2 | 6.0 | | 7.9 | ML |
| TP-BGC10-38 | M1 | 1.5 | | 3.4 | SW |
| TP-BGC10-42 | M2 | 2.0 | | 13.6 | SM |
| TP-BGC10-43 | M2 | 4.0 | | 20.8 | SM |
| TP-BGC10-43 | M3 | 5.2 | | 9.4 | ML |
| TP-BGC10-44 | M1 | 2.0 | | 5.1 | SW |
| TP-BGC10-45 | M1 | 5.5 | | 21.5 | OL |
| TP-BGC10-48 | M2 | 3.0 | | 45.3 | CL |
| TP-BGC10-49 | M1 | 2.5 | | 32.6 | ML |
| BH-BGC10-13 | SPT1 | 0.8 | 1.2 | 5.2 | SW |

| Test Location | Sample ID | Depth (m) | | Water Content (%) | USCS Classification |
|---|---|---|---|---|---|
| | | From | To | | |
| BH-BGC10-13 | SPT2 | 1.5 | 2.0 | 4.5 | GW |
| BH-BGC10-13 | SPT3 | 2.3 | 2.7 | 2.5 | GW |
| BH-BGC10-13 | SPT4 | 3.0 | 3.5 | 4.4 | SW |
| BH-BGC10-13 | SPT5 | 3.8 | 4.2 | 2.3 | GW |
| BH-BGC10-13 | SPT6 | 4.5 | 5.0 | 5.0 | GW |
| BH-BGC10-14 | G2 | 0.0 | 0.0 | 24.8 | ML |
| BH-BGC10-14 | G6 | 4.5 | 6.0 | 31.2 | SM |
| BH-BGC10-14 | G7 | 6.0 | 7.5 | 34.8 | ML |
| BH-BGC10-14 | SPT6 | 9.5 | 10.0 | 7.4 | GW |
| BH-BGC10-15 | G2 | 13.2 | 3.4 | 26.0 | CL-ML |
| BH-BGC10-22 | G2 | 0.5 | 1.5 | 26.6 | ML |
| BH-BGC10-22 | G11 | 9.0 | 9.3 | 20.1 | CL-ML |
| BH-BGC10-22 | SPT8 | 9.0 | 9.5 | 21.6 | CL-ML |
| BH-BGC10-22 | G13 | 10.5 | 12.0 | 10.8 | ML |
| BH-BGC10-22 | G16 | 15.0 | 16.0 | 19.3 | ML |
| BH-BGC10-24 | SPT3 | 4.5 | 5.0 | 25.4 | ML |
| BH-BGC10-24 | G2 | 6.5 | 7.5 | 26.0 | ML |
| BH-BGC10-24 | G6 | 12.0 | 13.5 | 15.4 | SP |
| BH-BGC10-24 | G9 | 15.7 | 16.2 | 13.4 | SM |
| Tailings Group 2 | S1 | Ground Surface | | 23.1 | GW |
| Tailings Group 1 | S2 | Ground Surface | | 3.1 | SW |
| Tailings Group 6 | S6 | Ground Surface | | 0.4 | GP |
| Tailings Group 5 | S7 | Ground Surface | | 4.0 | GW |
| Tailings Group 5 | S8 | Ground Surface | | 1.2 | SW |
| Tailings Group 1 | S9 | Ground Surface | | 6.7 | SW |

**Table A.3 – Grain Size Analyses Summary**

| Test Location | Sample ID | Depth (m) | Grain Size Distribution | | | | USCS Classification |
|---|---|---|---|---|---|---|---|
| | | | Gravel % | Sand % | Fines | | |
| | | | | | Silt % | Clay % | |
| TP-BGC10-05 | M1 | 0.5 | 56.4 | 18.2 | 25.4 | | GM |
| TP-BGC10-06 | M1 | 0.5 | 66.5 | 20.0 | 13.5 | | GW |
| TP-BGC10-06 | M2 | 1.1 | 11.0 | 29.2 | 59.9 | | ML |
| TP-BGC10-08 | M1 | 0.6 | 24.7 | 63.2 | 12.1 | | SP-SM |
| TP-BGC10-08 | M2 | 1.0 | 7.4 | 79.9 | 12.7 | | SP-SM |
| TP-BGC10-11 | M3 | 3.5 | 46.3 | 40.1 | 13.6 | | GW |
| TP-BGC10-12 | M2 | 3.0 | 24.0 | 42.5 | 21.7 | 11.8 | CL |
| TP-BGC10-13 | M2 | 3.8 | 25.3 | 58.2 | 5.6 | 10.8 | SM |
| TP-BGC10-14 | M4 | 5.2 | 29.9 | 50.7 | 19.4 | | SM |
| TP-BGC10-15 | M1 | 1.5 | 19.9 | 52.7 | 27.4 | | SM |
| TP-BGC10-15 | M2 | 3.8 | 12.4 | 58.3 | 29.4 | | SM |
| TP-BGC10-18 | M1 | 3.0 | 49.6 | 26.8 | 23.7 | | GM |
| TP-BGC10-18 | M2 | 5.0 | 32.9 | 34.3 | 22.7 | 10.1 | CL |
| TP-BGC10-19 | M1 | 1.0 | 43.3 | 39.9 | 16.9 | | GM |
| TP-BGC10-21 | M1 | 5.0 | 21.2 | 27.8 | 40.3 | 10.7 | CL |
| TP-BGC10-21 | M2 | 6.0 | 42.2 | 41.8 | 16.0 | | GM |
| TP-BGC10-26 | M1 | 2.5 | 50.4 | 44.5 | 1.7 | 3.4 | GW |
| TP-BGC10-30 | M1 | 1.0 | 43.0 | 27.7 | 29.3 | | GM |
| TP-BGC10-32 | M1 | 4.0 | 47.8 | 32.1 | 20.1 | | GM |
| TP-BGC10-33 | M1 | 1.0 | 7.0 | 16.8 | 76.1 | | ML |
| TP-BGC10-33 | M2 | 2.0 | 54.2 | 38.8 | 7.0 | | GP-GM |
| TP-BGC10-34 | M1 | 4.0 | 21.7 | 40.4 | 37.9 | | SM |
| TP-BGC10-37 | M2 | 6.0 | 23.1 | 38.0 | 38.9 | | ML |
| TP-BGC10-38 | M1 | 1.5 | 46.1 | 49.0 | 4.9 | | SW |
| TP-BGC10-42 | M2 | 2.0 | 25.9 | 30.9 | 43.2 | | SM |
| TP-BGC10-43 | M2 | 4.0 | 0.0 | 24.1 | 75.9 | | ML |
| TP-BGC10-43 | M3 | 5.2 | 29.5 | 43.4 | 23.7 | 3.5 | SM |
| TP-BGC10-44 | M1 | 2.0 | 34.1 | 61.2 | 4.7 | | SW |
| TP-BGC10-45 | M1 | 5.5 | 4.6 | 15.1 | 70.2 | 10.0 | OL |
| TP-BGC10-48 | M2 | 3.0 | 0.5 | 5.7 | 75.3 | 18.5 | CL |
| TP-BGC10-49 | M1 | 2.5 | 1.7 | 3.7 | 94.6 | | ML |

| Test Location | Sample ID | Depth (m) | Grain Size Distribution | | | | USCS Classification |
|---|---|---|---|---|---|---|---|
| | | | Gravel % | Sand % | Fines | | |
| | | | | | Silt % | Clay % | |
| Tailings G5 | S3 | 0.0 | 43.3 | 37.4 | 4.4 | | GW |
| Tailings G2 | S4 | 0.0 | 32.8 | 32.3 | 28.2 | | SM |
| Tailings G5 | S8 | 0.0 | 23.9 | 25.1 | 1.9 | | SW |

Notes:

1. Gravel – Soil Particles greater than 4.75 mm nominal diameter
2. Sand – Soil Particles between 4.75 mm and 0.075 mm nominal diameter
3. Silt – Soil Particles between 0.075 mm and 0.02 mm nominal diameter
4. Clay – Soil Particles less than 0.002 mm nominal diameter

**Table A.4 – Soil Specific Gravity Summary**

| Test Location | Sample ID | Sample Depth (m) | | Specific Gravity |
|---|---|---|---|---|
| | | From | To | |
| TP-BGC10-12 | M2 | 3.0 | | 2.71 |
| TP-BGC10-13 | M2 | 3.8 | | 2.71 |
| TP-BGC10-18 | M2 | 5.0 | | 2.79 |
| TP-BGC10-21 | M1 | 5.0 | | 2.73 |
| TP-BGC10-26 | M1 | 2.5 | | 2.83 |
| TP-BGC10-43 | M3 | 5.2 | | 2.76 |
| TP-BGC10-45 | M1 | 5.5 | | 2.65 |
| TP-BGC10-48 | M2 | 3.0 | | 2.70 |
| BH-BGC10-14 | G2 | 6.4 | 7.5 | 2.81 |
| BH-BGC10-14 | G6 | 12.0 | 13.5 | 2.73 |
| BH-BGC10-14 | G9 | 15.7 | 16.2 | 2.72 |
| Tailings Group 5 | S3 | Surface | | 2.68 |
| Tailings Group 2 | S4 | Surface | | 2.70 |
| Tailings Group 5 | S8 | Surface | | 2.65 |
| Tailings Group 2 | S4 | Surface | | 2.70 |
| Tailings Group 1 | S6 | Surface | | 2.75 |
| Tailings Group 5 | S7 | Surface | | 2.72 |
| Tailings Group 5 | S8 | Surface | | 2.65 |
| Tailings Group 1 | S9 | Surface | | 2.76 |

**Table A.5 – Atterberg Limits Results**

| Test Location | Sample ID | Sample Depth (m) | | Liquid Limit (%) | Plastic Limit (%) | Plasticity Index (%) | Water Content (%) | USCS Classification |
|---|---|---|---|---|---|---|---|---|
| | | From | To | | | | | |
| TP-BGC10-12 | M2 | 3.0 | | 26 | 17 | 9 | 13.6 | CL |
| TP-BGC10-18 | M2 | 5.0 | | 22 | 14 | 8 | 11.0 | CL |
| TP-BGC10-21 | M1 | 5.0 | | 28 | 24 | 4 | 20.0 | CL |
| TP-BGC10-45 | M1 | 5.5 | | 32 | 26 | 6 | 21.5 | OL |
| TP-BGC10-48 | M2 | 3.0 | | 51 | 40 | 11 | 45.3 | CL |
| BH-BGC10-14 | G2 | 2.0 | 2.8 | 35 | 28 | 7 | 24.8 | ML-CL |
| BH-BGC10-14 | G6 | 4.5 | 6.0 | 35 | 27 | 8 | 31.2 | ML |
| BH-BGC10-14 | G7 | 6.0 | 7.5 | 37 | 27 | 10 | 34.8 | ML |
| BH-BGC10-15 | G2 | 13.2 | 13.3 | 30 | 25 | 5 | 26.0 | ML-CL |
| BH-BGC10-22 | G2 | 0.5 | 1.5 | 33 | 27 | 6 | 26.6 | ML |
| BH-BGC10-22 | G11 | 9.0 | 9.3 | 25 | 20 | 5 | 20.1 | CL-ML |
| BH-BGC10-22 | G13 | 10.5 | 12.0 | 17 | 16 | 1 | 10.8 | ML |
| BH-BGC10-22 | G16 | 15.0 | 16.0 | 31 | 20 | 11 | 19.3 | ML |
| BH-BGC10-22 | SPT8 | 9.0 | 9.4 | 28 | 22 | 6 | 21.6 | CL-ML |
| BH-BGC10-24 | G2 | 6.1 | 7.5 | 28 | 22 | 6 | 26.0 | ML |

Notes: Testing conducted on soil fraction less than 425 µm nominal diameter.

**Table A.6 – Moisture Density Testing Summary**

| Test Location | Sample ID | Depth (m) | Water Content (%) | Max. Dry Density ($kg/m^3$) | Optimum Moisture Content (%) | Oversize Material | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | Oversize Fraction (%) | Specific Gravity | Average Absorption (%) |
| TP-BGC10-38 | M1 | 1.5 | 3.40 | 2094 | 8.2 | 21.9 | 2.69 | 1.2 |
| TP-BGC10-44 | M1 | 2.0 | 5.10 | 2069 | 8.0 | 9.0 | 2.69 | 1.6 |

Notes:

1. ASTM D1557 Method C – Laboratory Compaction Characteristics of Soil Using Modified Effort
2. Oversize Fraction defined as soil particles retained greater than 19 mm

**Table A.7 - Aggregate Testing Summary**

| Test Location | Sample ID | CSA A23.2-2A | | | | | | | CSA A23.2 - 10A | ASTM C127 | ASTM D854 | CSA A23.2-12A | CSA A23.2-6A | CSA A23.2-12A | CSA A23.2-6A | CSA A23.2-15A | CSA A23.2-9A, ASTM C88 | | CSA A23.2-29A | CSA A23.2-23A | CSA A23.2-16A | CSA A23.2 - 4A | CSA A23.2-24A | ASTM D2974, CSA A23.2 - 7A | CSA A23.2 - 3A | CSA A223.2-25A | CSA A23.2-3B |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sieve Analysis - Percent Passing | | | | | | | Bulk Density (kg/m$^3$) | Specific Gravity | | (SSD) Relative Density | | Absorption | | PN[1] | MgSO4 Soundness | | Micro-Deval | | LA Abrasion (% Loss) | Low Density Granular Material (%) | Freeze Thaw (% Loss) | Organic Impurities (Color Plate Value or %) | Clay Lumps (%) | AMBT AAR Expansivity (14 Days) | Water Soluble Sulphate (Total) Ion in Soil (%) |
| | | 28 mm | 20 mm | 14 mm | 10 mm | 5 mm | 2.5 mm | 0.08 mm | | Coarse | Fine | Coarse | Fine | Coarse (%) | Fine (%) | | Coarse (% Loss) | Fine (% Loss) | Coarse (% Loss) | Fine (% Loss) | | | | | | | |
| Tailings Group 2 | S1 | | | | | | | | | | 2.75 | | | | | | | | | | | | | | | | |
| Tailings Group 1 | S2 | | | | | | | | | | 2.73 | | | | | | | | | | | | | | | | |
| Tailings Group 5 | S3 | | | | | | | | | 2.61 | 2.68 | 2.64 | | 1.27 | | | 8.6 | 13.0 | | | | | | 0.80% | | | |
| Tailings Group 2 | S4 | | | | | | | | | 2.62 | 2.70 | 2.65 | | 1.10 | | | 10.5 | 8.2 | | | | | | 1.40% | | | |
| Tailings Group 3 | S5 | | | | | | | | | 2.65 | | | | 1.16 | | | | | | | | | | | | | |
| Tailings Group 1 | S6 | | | | | | | | | 2.71 | 2.75 | | | 1.78 | | | | | | | | | | | | | |
| Tailings Group 5 | S7 | | | | | | | | | 2.73 | 2.72 | | | 1.46 | | | | | | | | | | | | | |
| Tailings Group 5 | S8 | | | | | | | | | 2.60 | 2.65 | 2.63 | | 1.39 | | | 11.1 | 20.0 | | | | | | 0.70% | | | |
| Tailings Group 1 | S9 | | | | | | | | | 2.65 | 2.76 | | | 1.17 | | | | | | | | | | | | | |
| TP-BGC10-46 | M1 | 82 | 77 | 70 | 65 | 54 | 43 | 11 | 2091 | 2.60 | 2.45 | 2.62 | 2.53 | 1.18 | 3.28 | 167 | 5.5 | 9.6 | 17.5 | 19.6 | 28.9 | 0.0 | 3.6 | 2 CPV | 0.0 | 0.311 | 0.02 |

Notes:
1. PN – Petrographic Number

**Table A.8 – Point Load Testing Summary**

| Sample ID | Sample Depth (m) | Lithology | Sample Length (mm) | Sample Width (mm) | Load Direction | Gauge Reading (MPa) | Failure Load (MN) | $D_e$ (mm) | $I_s$ (MPa) | Size Correction | $I_{s(50)}$ (MPa) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| BH-BGC10-01 | 18.34 | MS | 100 | 61 | // | 4.9 | 0.005 | 61.0 | 1.25 | 1.09 | 1.37 |
| BH-BGC10-01 | 18.40 | MS | 155 | 61 | // | 0.66 | 0.001 | 61.0 | 0.17 | 1.09 | 0.18 |
| BH-BGC10-01 | 18.56 | MS | 150 | 61 | // | 4.04 | 0.004 | 61.0 | 1.03 | 1.09 | 1.13 |
| BH-BGC10-06 | 23.70 | MS | 140 | 61 | L | 2.62 | 0.002 | 61.0 | 0.67 | 1.09 | 0.73 |
| BH-BGC10-06 | 26.35 | MS | 85 | 61 | // | 1.78 | 0.002 | 61.0 | 0.45 | 1.09 | 0.50 |
| BH-BGC10-06 | 26.98 | MS | 80 | 61 | N/A | 2.78 | 0.003 | 61.0 | 0.71 | 1.09 | 0.77 |
| BH-BGC10-07 | 29.90 | MS | 130 | 61 | // | 0.48 | 0.000 | 61.0 | 0.12 | 1.09 | 0.13 |
| BH-BGC10-07 | 22.32 | MS | 90 | 60 | // | 1.24 | 0.001 | 61.0 | 0.32 | 1.09 | 0.35 |
| BH-BGC10-08 | 3.81 | MS | 115 | 61 | // | 0.64 | 0.001 | 61.0 | 0.16 | 1.09 | 0.18 |
| BH-BGC10-08 | 6.78 | MS | 120 | 61 | // | 22.6 | 0.021 | 61.0 | 5.76 | 1.09 | 6.30 |
| BH-BGC10-08 | 8.64 | MS | 116 | 61 | // | 3.98 | 0.004 | 61.0 | 1.01 | 1.09 | 1.11 |
| BH-BGC10-08 | 9.70 | MS | 115 | 61 | // | 8.18 | 0.008 | 61.0 | 2.08 | 1.09 | 2.28 |
| BH-BGC10-08 | 12.68 | MS | 106 | 61 | // | 13.6 | 0.013 | 61.0 | 3.46 | 1.09 | 3.79 |
| BH-BGC10-08 | 20.74 | MS | 210 | 61 | // | 30.9 | 0.029 | 61.0 | 7.87 | 1.09 | 8.61 |
| BH-BGC10-08 | 23.79 | MS | 208 | 61 | // | 10.2 | 0.010 | 61.0 | 2.60 | 1.09 | 2.84 |
| BH-BGC10-08 | 24.80 | MS | 215 | 61 | 99 | 29.92 | 0.028 | 61.0 | 7.62 | 1.09 | 8.34 |
| BH-BGC10-09 | 22.62 | MS | 150 | 61 | X | 3.06 | 0.003 | 61.0 | 0.78 | 1.09 | 0.85 |
| BH-BGC10-09 | 26.04 | MS | 150 | 61 | X | 4.4 | 0.004 | 61.0 | 1.12 | 1.09 | 1.23 |
| BH-BGC10-09 | 26.51 | MS | 160 | 61 | X | 4.3 | 0.004 | 61.0 | 1.10 | 1.09 | 1.20 |
| BH-BGC10-09 | 27.33 | MS | 150 | 60 | X | 2.12 | 0.002 | 61.0 | 0.54 | 1.09 | 0.59 |
| BH-BGC10-11 | 35.86 | MS | 120 | 61 | // | 3.26 | 0.003 | 61.0 | 0.83 | 1.09 | 0.91 |
| BH-BGC10-11 | 44.98 | MS | 82 | 60.5 | // | 1 | 0.001 | 61.0 | 0.25 | 1.09 | 0.28 |

| Sample ID | Sample Depth (m) | Lithology | Sample Length (mm) | Sample Width (mm) | Load Direction | Gauge Reading (MPa) | Failure Load (MN) | $D_e$ (mm) | $I_s$ (MPa) | Size Correction | $I_{s(50)}$ (MPa) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| BH-BGC10-15 | 12.46 | MS | 100 | 61 | // | 0.54 | 0.001 | 61.0 | 0.14 | 1.09 | 0.15 |
| BH-BGC10-15 | 15.66 | MS | 70 | 61 | // | 0.76 | 0.001 | 61.0 | 0.19 | 1.09 | 0.21 |
| BH-BGC10-15 | 17.35 | MS | 115 | 61 | // | 0.96 | 0.001 | 61.0 | 0.24 | 1.09 | 0.27 |
| BH-BGC10-16 | 11.42 | MS | 160 | 61 | // | 5.63 | 0.005 | 61.0 | 1.43 | 1.09 | 1.57 |
| BH-BGC10-16 | 11.38 | MS | 210 | 61 | // | 6.6 | 0.006 | 61.0 | 1.68 | 1.09 | 1.84 |
| BH-BGC10-16 | 12.91 | MS | 220 | 61 | 99 | 11.98 | 0.011 | 61.0 | 3.05 | 1.09 | 3.34 |
| BH-BGC10-16 | 18.05 | MS | 280 | 61 | X | 4.6 | 0.004 | 61.0 | 1.17 | 1.09 | 1.28 |
| BH-BGC10-16 | 27.95 | MS | 160 | 61 | // | 5.34 | 0.005 | 61.0 | 1.36 | 1.09 | 1.49 |
| BH-BGC10-18 | 7.43 | MS | 150 | 61 | // | 0.38 | 0.000 | 61.0 | 0.10 | 1.09 | 0.11 |
| BH-BGC10-18 | 7.37 | MS | 120 | 61 | // | 2.38 | 0.002 | 61.0 | 0.61 | 1.09 | 0.66 |
| BH-BGC10-18 | 17.22 | MS | 95 | 61 | // | 1.04 | 0.001 | 61.0 | 0.26 | 1.09 | 0.29 |
| BH-BGC10-18 | 18.43 | MS | 105 | 61 | // | 4.5 | 0.004 | 61.0 | 1.15 | 1.09 | 1.25 |
| BH-BGC10-18 | 20.65 | MS | 180 | 61 | // | 19.3 | 0.018 | 61.0 | 4.92 | 1.09 | 5.38 |
| BH-BGC10-18 | 22.75 | MS | 160 | 61 | // | 15.1 | 0.014 | 61.0 | 3.85 | 1.09 | 4.21 |
| BH-BGC10-18 | 30.03 | MS | 280 | 61 | // | 2.88 | 0.003 | 61.0 | 0.73 | 1.09 | 0.80 |
| BH-BGC10-20 | 6.98 | GRD | 145 | 61 | 99 | 40.4 | 0.038 | 61.0 | 10.29 | 1.09 | 11.26 |
| BH-BGC10-20 | 9.59 | GRD | 140 | 61 | 99 | 18.52 | 0.018 | 61.0 | 4.72 | 1.09 | 5.16 |
| BH-BGC10-20 | 11.20 | GRD | 300 | 61 | 99 | 26.96 | 0.026 | 61.0 | 6.87 | 1.09 | 7.51 |
| BH-BGC10-20 | 13.55 | GRD | 110 | 61 | 99 | 19.16 | 0.018 | 61.0 | 4.88 | 1.09 | 5.34 |
| BH-STAN10-AG3 | 124.30 | MS | 190 | 61 | X | 14.26 | 0.014 | 61.0 | 3.63 | 1.09 | 3.97 |
| BH-STAN10-AG3 | 132.00 | MS | 209 | 61 | // | 7.06 | 0.007 | 61.0 | 1.80 | 1.09 | 1.97 |
| BH-STAN10-AG3 | 134.50 | MS | 85 | 61 | // | 1.86 | 0.002 | 61.0 | 0.47 | 1.09 | 0.52 |

| Sample ID | Sample Depth (m) | Lithology | Sample Length (mm) | Sample Width (mm) | Load Direction | Gauge Reading (MPa) | Failure Load (MN) | $D_e$ (mm) | $I_s$ (MPa) | Size Correction | $I_{s(50)}$ (MPa) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| BH-STAN10-AG3 | 140.50 | MS | 86 | 61 | X | 12.4 | 0.012 | 61.0 | 3.16 | 1.09 | 3.45 |

Notes:

1. De - Equivalent core diameter
2. Is - Uncorrected point load strength
3. IS(50) - Size corrected point load strength
4. // - Load direction is parallel to fabric,
5. 99 - load direction not applicable
6. MS – Metasedimentary
7. GRD – Granodiorite

# APPENDIX B
# TEST PIT LOGS

PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# *TEST PIT # TP-BGC10-01*

LOCATION: EAGLE PUP



SURVEY METHOD: Hand GPS
CO-ORDINATES (m): 460757E, 7099759N
GROUND ELEVATION (m): 1347
DATUM: UTM NAD 83

EXCAVATOR: 33T John Deere Excavator
OPERATOR: John Waugh

START DATE: 07 Aug 10
FINISH DATE: 07 Aug 10
FINAL DEPTH OF PIT (m): 1.2
LOGGED BY: AKU
REVIEWED BY: PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | WEATHERING GRADE | SYMBOL | LITHOLOGIC DESCRIPTION |
|---|---|---|---|---|---|
| 0 | | | | | Moss, vegetation, rootmat. |
| | | | | | COBBLES<br>Silty matrix, trace gravel, loose to compact, max size: 450 mm, moist, brown. [COLLUVIUM] |
| 1 | | | | | END OF TEST PIT AT 1.2 m<br><br>Notes:<br>1. No water observed<br>2. Refusal on inferred bedrock or boulders |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |

Su - kPa

40 80 120 160

| VANE | FIELD | LAB | |
|---|---|---|---|
| PEAK | ◆ | ■ | ▲ UC/2 |
| REMOLD | ◇ | □ | △ Pocket Pen /2 |

★ % Fines

Moisture Content

$W_P$% W% $W_L$%

20 40 60 80

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EGP (TESTPIT) EGP_TESTPIT.GDL BGC.GDT 11/16/11

# TEST PIT # TP-BGC10-02



PROJECT: Eagle Gold Project - Infrastructure
PROJECT NO.: 0792-004
LOCATION: PLATINUM GULCH

SURVEY METHOD: Hand GPS
CO-ORDINATES (m): 460417E, 7099041N
GROUND ELEVATION (m): 1328
DATUM: UTM NAD 83

EXCAVATOR: 33T John Deere Excavator
OPERATOR: John Waugh

START DATE: 07 Aug 10
FINISH DATE: 07 Aug 10
FINAL DEPTH OF PIT (m): 2.8
LOGGED BY: AKU
REVIEWED BY: PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | WEATHERING GRADE | SYMBOL | LITHOLOGIC DESCRIPTION |
|---|---|---|---|---|---|
| 0 | | | | | Moss, rootmat, vegetation. |
| | | | 5 | | COBBLES and SAND<br>Some silt to silty, trace gravel, gap graded, loose, max size: 400-500 mm, angular, flat, brown, moist (no ice), trace rootlets to 1.0 m<br>[COMPLETELY WEATHERED METASEDIMENTARY ROCK] |
| 1 | | | 2 | | BEDROCK<br>Brown, iron staining, fine grained, highly fractured with some fine sand and silt infill, (R2), W2.<br>[MODERATELY WEATHERED METASEDIMENTARY ROCK] |
| 2 | | | 3 | | BEDROCK<br>Brown, iron staining on discontinuities, (R3), W3.<br>[SLIGHTLY WEATHERED METASEDIMENTARY] |
| 3 | | | | | END OF TEST PIT AT 2.8 m<br><br>Notes:<br>1. No water observed<br>2. Refusal on bedrock<br>3. Bedding of rock appears to be in same direction as slope |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |

Su - kPa
40 80 120 160

| VANE | FIELD | LAB | |
|---|---|---|---|
| PEAK | ◆ | ■ | ▲ UC/2 |
| REMOLD | ◇ | □ | △ Pocket Pen /2 |

★ % Fines

Moisture Content
$W_P$% W% $W_L$%
20 40 60 80



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PRINT DATE: 11/16/2011

PROJECT: Eagle Gold Project - Infrastructure
PROJECT NO.: 0792-004

# TEST PIT # TP-BGC10-03

LOCATION: PLATINUM GULCH



SURVEY METHOD: Hand GPS
CO-ORDINATES (m): 460256E, 7099026N
GROUND ELEVATION (m): 1245
DATUM: UTM NAD 83

EXCAVATOR: 33T John Deere Excavator
OPERATOR: John Waugh

START DATE: 07 Aug 10
FINISH DATE: 07 Aug 10
FINAL DEPTH OF PIT (m): 1.8
LOGGED BY: AKU
REVIEWED BY: PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | WEATHERING GRADE | SYMBOL | LITHOLOGIC DESCRIPTION |
|---|---|---|---|---|---|
| 0 | | | | | Moss, rootmat, vegetation. |
| | | | | | BOULDERS and COBBLES<br>Sandy, some silt, brown, very moist, loose to compact. Boulders are sub-rounded to rounded.<br>[COLLUVIUM] |
| 1 | | | 5 | | SAND (SP)<br>Yellowish brown, moist.<br>[COMPLETELY WEATHERED GRANODIORITE] |
| | | | | | 1.7 m - FROZEN, Vs, oriented ice formations |
| 2 | | | | | END OF TEST PIT AT 1.8 m |
| | | | | | Notes:<br>1. No water observed<br>2. Refusal on frozen ground |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |

Su - kPa
40 80 120 160

| VANE | FIELD | LAB | |
|---|---|---|---|
| PEAK | ◆ | ■ | ▲ UC/2 |
| REMOLD | ◇ | □ | △ Pocket Pen /2 |

★ % Fines

Moisture Content
$W_P$% W% $W_L$%
20 40 60 80

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PRINT DATE: 11/16/2011

EGP (TESTPIT) EGP_TESTPIT.GDL BGC.GDT 11/16/11

PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# TEST PIT # TP-BGC10-05

LOCATION: STUTTLE GULCH



SURVEY METHOD: Hand GPS
CO-ORDINATES (m): 459666E, 7099847N
GROUND ELEVATION (m): 1064
DATUM: UTM NAD 83

EXCAVATOR: 33T John Deere Excavator
OPERATOR: John Waugh

START DATE: 07 Aug 10
FINISH DATE: 07 Aug 10
FINAL DEPTH OF PIT (m): 4.0
LOGGED BY: AKU
REVIEWED BY: PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | WEATHERING GRADE | SYMBOL | LITHOLOGIC DESCRIPTION |
|---|---|---|---|---|---|
| 0 | | | | | Rootmat, vegetation, moss. |
| | | | | | COBBLES and GRAVEL<br>Some silt, some sand, poorly graded, brown, loose, moist.<br>[COLLUVIUM] |
| | | | 4 | | 0.5 m - Grain Size Analysis: 56% Gravel, 18% Sand, 26% Fines |
| 1 | | | | | BEDROCK<br>Fine grained, iron stained, no apparent infill of joints, highly fractured, (R1), W4.<br>[HIGHLY WEATHERED METASEDIMENTARY ROCK] |
| | | | | | BEDROCK<br>Fine grained, reddish colour, iron staining present, highly fractured, (R3), W2-W3.<br>[MODERATELY TO SLIGHTLY WEATHERED METASEDIMENTARY ROCK] |
| 2 | | | | | 2.0 m - Becomes (R4), moderate fracturing, rectangular cobbles, possible quartzite. |
| | | | 2.5 | | |
| 3 | | | | | |
| 4 | | | | | END OF TEST PIT AT 4.0 m |
| | | | | | Notes:<br>1. No water observed<br>2. Refusal on bedrock<br>3. Bedrock is rippable to 4.0 m |
| 5 | | | | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |

Su - kPa

40 80 120 160

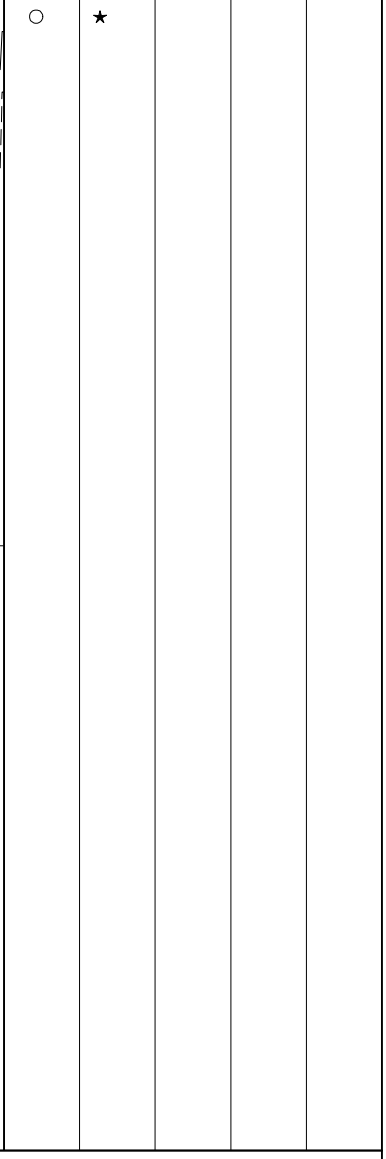
| VANE | FIELD | LAB | | |
|---|---|---|---|---|
| PEAK | ◆ | ■ | ▲ | UC/2 |
| REMOLD | ◇ | □ | △ | Pocket Pen /2 |

★ % Fines

Moisture Content

$W_P$% W% $W_L$%

20 40 60 80



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PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# TEST PIT # TP-BGC10-06

LOCATION: STUTTLE GULCH



SURVEY METHOD: Hand GPS
CO-ORDINATES (m): 459577E, 7099886N
GROUND ELEVATION (m): 1038
DATUM: UTM NAD 83

EXCAVATOR: 33T John Deere Excavator
OPERATOR: John Waugh

START DATE: 08 Aug 10
FINISH DATE: 08 Aug 10
FINAL DEPTH OF PIT (m): 4.2
LOGGED BY: AKU
REVIEWED BY: PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | WEATHERING GRADE | SYMBOL | LITHOLOGIC DESCRIPTION |
|---|---|---|---|---|---|
| 0 | | | | | Rootmat, vegetation, moss. |
| | | | | | GRAVEL (GM)<br>Sandy, some cobbles, some silt, trace clay, poorly graded, compact, angular, flat, light brown, iron stained, moist, quartzite present.<br>[COLLUVIUM]<br>0.5 m - Grain Size Analysis: 67% Gravel, 20% Sand, 13% Fines |
| 1 | | | | | SILT (ML) and SAND<br>Some cobbles, some gravel, low plasticity, gap graded, compact, angular, blocky, greyish brown, moist.<br>[COLLUVIUM]<br>1.1 m - Grain Size Analysis: 11% Gravel, 29% Sand, 60% Fines |
| | | | 5 | | GRAVEL (GP) and SAND<br>Trace silt, poorly graded, compact, max particle size: 50 mm, angular, brown, iron stained, homogeneous.<br>[COMPLETELY WEATHERED METASEDIMENTARY ROCK] |
| 2 | | | | | BEDROCK<br>Brown, iron stained, fine grained, highly fractured bedrock, (R2), W3.<br>[MODERATELY WEATHERED METASEDIMENTARY ROCK] |
| 3 | | | 3 | | |
| 4 | | | | | END OF TEST PIT AT 4.2m<br><br>Notes:<br>1. No water observed<br>2. Refusal on bedrock |
| 5 | | | | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |

Su - kPa

40 80 120 160

| VANE | FIELD | LAB | | |
|---|---|---|---|---|
| PEAK | ◆ | ■ | ▲ | UC/2 |
| REMOLD | ◇ | □ | △ | Pocket Pen /2 |

★ % Fines

Moisture Content

$W_P$% W% $W_L$%

20 40 60 80



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PRINT DATE: 11/16/2011

PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# TEST PIT # TP-BGC10-07

LOCATION: EAGLE PUP



SURVEY METHOD: Hand GPS
CO-ORDINATES (m): 460373E, 7099880N
GROUND ELEVATION (m): 1206
DATUM: UTM NAD 83

EXCAVATOR: 33T John Deere Excavator
OPERATOR: John Waugh

START DATE: 08 Aug 10
FINISH DATE: 08 Aug 10
FINAL DEPTH OF PIT (m): 7.0
LOGGED BY: AKU
REVIEWED BY: PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | WEATHERING GRADE | SYMBOL | LITHOLOGIC DESCRIPTION |
|---|---|---|---|---|---|
| 0 | | | | | Organics, boulders, trees, peat (fiberous), rootmat. |
| 1 | | | | | COBBLES<br>Some silt, trace gravel, loose, greyish brown, moist.<br>[COLLUVIUM] |
| | | | | | Organics, peat, cobbles. |
| 2 | | | | | SAND (SM) and GRAVEL<br>Cobbley, silty, well graded, compact, angular, blocky, greyish brown, moist, homogeneous, rootlets.<br>[COLLUVIUM] |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | 2 | | BEDROCK<br>Brownish, iron stained, blocky, moderately to highly fractured, (R4), W2.<br>[SLIGHTLY WEATHERED GRANODIORITE] |
| 7 | | | | | END OF TEST PIT AT 7.0 m<br><br>Notes:<br>1. No water observed<br>2. Refusal on bedrock<br>3. Overlying material appears indicative of previous slide. |
| 8 | | | | | |

Su - kPa

40 80 120 160

| VANE | FIELD | LAB | |
|---|---|---|---|
| PEAK | ◆ | ■ | ▲ UC/2 |
| REMOLD | ◇ | □ | △ Pocket Pen /2 |

★ % Fines

Moisture Content

$W_P$% × — — — — ○ — — — — × $W_L$%

W% 20 40 60 80



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PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# TEST PIT # TP-BGC10-08

LOCATION: EAGLE PUP



SURVEY METHOD: Hand GPS
CO-ORDINATES (m): 460276E, 7100107N
GROUND ELEVATION (m): 1098
DATUM: UTM NAD 83

EXCAVATOR: 33T John Deere Excavator
OPERATOR: John Waugh

START DATE: 08 Aug 10
FINISH DATE: 08 Aug 10
FINAL DEPTH OF PIT (m): 2.3
LOGGED BY: AKU
REVIEWED BY: PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | WEATHERING GRADE | SYMBOL | LITHOLOGIC DESCRIPTION |
|---|---|---|---|---|---|
| 0 | | | | | Moss, vegetation, rootmat. |
| | | | | | SAND (SP)<br>Some gravel to gravelly, some silt, trace cobbles, angular, compact, greyish brown, moist, trace rootlets.<br>[COLLUVIUM]<br>0.6 m - Grain Size Analysis: 25% Gravel, 63% Sand, 12% Fines |
| 1 | | | | | SAND (SP) and GRAVEL<br>Some cobbles, trace gravel, trace silt, poorly graded, compact<br>[COLLUVIUM]<br>1.0 m - Grain Size Analysis: 7% Gravel, 80% Sand, 13% Fines |
| | | | 4 | | BEDROCK<br>Greyish, iron stained at joints, blocky, (R4), W4.<br>[HIGHLY WEATHERED GRANODIORITE]<br>Below 1.7 m - FROZEN, Vs, increasing cobbles with depth. |
| 2 | | | | | END OF TEST PIT AT 2.3 m |
| | | | | | Notes:<br>1. No water observed<br>2. Refusal on bedrock |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |

Su - kPa

40 80 120 160

| VANE | FIELD | LAB | |
|---|---|---|---|
| PEAK | ◆ | ■ | ▲ UC/2 |
| REMOLD | ◇ | □ | △ Pocket Pen /2 |

★ % Fines

Moisture Content

$W_P$% W% $W_L$%

20 40 60 80

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CLIENT: Victoria Gold Corporation

PRINT DATE: 11/16/2011

EGP (TESTPIT) EGP_TESTPIT.GDL BGC.GDT 11/16/11

PROJECT: Eagle Gold Project - Infrastructure
PROJECT NO.: 0792-004

# TEST PIT # TP-BGC10-09

LOCATION: STUTTLE GULCH



SURVEY METHOD: Hand GPS
CO-ORDINATES (m): 459751E, 7100146N
GROUND ELEVATION (m): 1038
DATUM: UTM NAD 83

EXCAVATOR: 33T John Deere Excavator
OPERATOR: John Waugh

START DATE: 08 Aug 10
FINISH DATE: 08 Aug 10
FINAL DEPTH OF PIT (m): 1.0
LOGGED BY: AKU
REVIEWED BY: PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | WEATHERING GRADE | SYMBOL | LITHOLOGIC DESCRIPTION |
|---|---|---|---|---|---|
| 0 | | | | | Moss, vegetation, rootmat. |
| | | | | | COBBLES<br>Silty, sandy, trace boulders, some gravel, gap graded, loose to compact, angular, flat, brown, moist, rootlets.<br>[COLLUVIUM] |
| 1 | | | 2 | | BEDROCK<br>Iron stained at joints, highly fractured, blocky, (R4), W2 . Dipping down slope, orthogonal jointing.<br>[SLIGHTLY WEATHERED METASEDIMENTARY ROCK] |
| | | | | | END OF TEST PIT AT 1.0 m |
| | | | | | Notes:<br>1. No water observed<br>2. No samples collected<br>3. Refusal on bedrock. |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |

Su - kPa
40 80 120 160

| VANE | FIELD | LAB | |
|---|---|---|---|
| PEAK | ◆ | ■ | ▲ UC/2 |
| REMOLD | ◇ | □ | △ Pocket Pen /2 |

★ % Fines

Moisture Content
$W_P$% W% $W_L$%
20 40 60 80

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CLIENT: Victoria Gold Corporation

PRINT DATE: 11/16/2011

EGP (TESTPIT) EGP_TESTPIT.GDL BGC.GDT 11/16/11

PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# TEST PIT # TP-BGC10-10

LOCATION: STUTTLE GULCH



SURVEY METHOD: Hand GPS
CO-ORDINATES (m): 459888E, 7100167N
GROUND ELEVATION (m): 1080
DATUM: UTM NAD 83

EXCAVATOR: 33T John Deere Excavator
OPERATOR: John Waugh

START DATE: 08 Aug 10
FINISH DATE: 08 Aug 10
FINAL DEPTH OF PIT (m): 1.5
LOGGED BY: AKU
REVIEWED BY: PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | WEATHERING GRADE | SYMBOL | LITHOLOGIC DESCRIPTION |
|---|---|---|---|---|---|
| 0 | | | | | Moss, vegetation, rootmat. |
| | | | | | COBBLES and SAND<br>Silty, trace gravel, trace boulders, gap graded, loose to compact, angular, flat, blocky, brown, moist, rootlets to 1.0 m.<br>[COLLUVIUM] |
| 1 | | | 2 | | BEDROCK<br>Greyish, iron stained at vertical joints, moderately fractured, (R4), W2, jointing dipping down slope.<br>[SLIGHTLY WEATHERED METASEDIMENTARY QUARTZITE] |
| 2 | | | | | END OF TEST PIT AT 1.5 m<br><br>Notes:<br>1. No water observed<br>2. Refusal on bedrock. |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |

Su - kPa

40 80 120 160

| VANE | FIELD | LAB | | |
|---|---|---|---|---|
| PEAK | ◆ | ■ | ▲ | UC/2 |
| REMOLD | ◇ | □ | △ | Pocket Pen /2 |

★ % Fines

Moisture Content

$W_P$% W% $W_L$%

20 40 60 80

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PRINT DATE: 11/16/2011

EGP (TESTPIT) EGP_TESTPIT.GDL BGC.GDT 11/16/11

PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# TEST PIT # TP-BGC10-11

LOCATION: STUTTLE GULCH



SURVEY METHOD: Hand GPS
CO-ORDINATES (m): 459542E, 7100568N
GROUND ELEVATION (m): 945
DATUM: UTM NAD 83

EXCAVATOR: 33T John Deere Excavator
OPERATOR: John Waugh

START DATE: 08 Aug 10
FINISH DATE: 08 Aug 10
FINAL DEPTH OF PIT (m): 4.3
LOGGED BY: AKU
REVIEWED BY: PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | WEATHERING GRADE | SYMBOL | LITHOLOGIC DESCRIPTION |
|---|---|---|---|---|---|
| 0 | | | | | Moss, vegetation, rootmat. |
| | | | | | SAND (SM)<br>Silty, trace gravel, trace clay, well graded, loose to compact, sub-rounded, brown, reddish brown banding, moist, rootlets and trace organics.<br>[COLLUVIUM] |
| 1 | | | | | |
| 2 | | | | | 1.7 m - FROZEN, Vx, well bonded, excess ice. |
| | | | | | GRAVEL (GW) and SAND<br>Trace silt, trace cobbles, well graded, partially compact to dense, max particle size: 25 mm, sub-rounded, brown, moist. Partially frozen areas (Nbn, Nf).<br>[COLLUVIUM] |
| 3 | | | | | |
| | | | | | 3.5 m -Grain Size Analysis: 46% Gravel, 40% Sand, 14% Fines |
| 4 | | | | | |
| | | | | | END OF TEST PIT AT 4.3 m |
| | | | | | Notes:<br>1. No water observed<br>2. Maximum reach of excavator |
| 5 | | | | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |

Su - kPa

40 80 120 160

| VANE | FIELD | LAB | |
|---|---|---|---|
| PEAK | ◆ | ■ | ▲ UC/2 |
| REMOLD | ◇ | □ | △ Pocket Pen /2 |

★ % Fines

Moisture Content

$W_P$% W% $W_L$%

20 40 60 80

○★



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PROJECT: Eagle Gold Project - Infrastructure
PROJECT NO.: 0792-004

# TEST PIT # TP-BGC10-12

LOCATION: EAGLE PUP



SURVEY METHOD: Hand GPS
CO-ORDINATES (m): 460016E, 7100722N
GROUND ELEVATION (m): 975
DATUM: UTM NAD 83

EXCAVATOR: 33T John Deere Excavator
OPERATOR: John Waugh

START DATE: 08 Aug 10
FINISH DATE: 08 Aug 10
FINAL DEPTH OF PIT (m): 9.0
LOGGED BY: AKU
REVIEWED BY: PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | WEATHERING GRADE | SYMBOL | LITHOLOGIC DESCRIPTION |
|---|---|---|---|---|---|
| 0 | | | | | Moss, vegetation, rootmat |
| | | | | | COBBLES and SAND<br>Silty, trace gravel, trace boulders, gap graded, loose to compact, angular, brown, moist, rootlets.<br>[COLLUVIUM] |
| 1 | | | | | |
| 2 | | | | | SAND and SILT (ML)<br>Trace clay, gravelly, low plasticity, firm, light yellowish grey, iron stained bands, moist, zones of sand and gravel, easy ripping.<br>[COMPLETELY WEATHERED BEDROCK] |
| 3 | | | 5 | | 3.0 m - Grain Size Analysis: 24% Gravel, 43% Sand, 21% Size Silt, 12% Size Clay. |
| 4 | | | | | |
| 5 | | | | | BEDROCK<br>Phyllitic, platy, grey, shiny, highly fractured, (R0-R1), quartzite present, rippable.<br>[HIGHLY WEATHERED PHYLLITE BEDROCK] |
| 6 | | | 4 | | |
| 7 | | | | | |
| 8 | | | | | |

Su - kPa
40 80 120 160
VANE FIELD LAB ▲ UC/2
PEAK ◆ ■
REMOLD ◇ □ △ Pocket Pen /2
★ % Fines

Moisture Content
$W_P$% W% $W_L$%
20 40 60 80

*(Continued on next page)*

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CLIENT: Victoria Gold Corporation
PRINT DATE: 11/16/2011

PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# *TEST PIT # TP-BGC10-12*

LOCATION: EAGLE PUP



SURVEY METHOD: Hand GPS
CO-ORDINATES (m): 460016E, 7100722N
GROUND ELEVATION (m): 975
DATUM: UTM NAD 83

EXCAVATOR: 33T John Deere Excavator
OPERATOR: John Waugh

START DATE: 08 Aug 10
FINISH DATE: 08 Aug 10
FINAL DEPTH OF PIT (m): 9.0
LOGGED BY: AKU
REVIEWED BY: PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | WEATHERING GRADE | SYMBOL | LITHOLOGIC DESCRIPTION |
|---|---|---|---|---|---|
| 8 | | | 4 | | |
| 9 | | | | | END OF TEST PIT AT 9.0 m<br><br>Notes:<br>1. No water observed<br>2. Maximum reach of excavator. |
| 10 | | | | | |
| 11 | | | | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

Su - kPa

40 80 120 160

| VANE | FIELD | LAB | | |
|---|---|---|---|---|
| PEAK | ◆ | ■ | ▲ | UC/2 |
| REMOLD | ◇ | □ | △ | Pocket Pen /2 |

★ % Fines

Moisture Content

$W_P$% W% $W_L$%

20 40 60 80

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EGP (TESTPIT) EGP_TESTPIT.GDL BGC.GDT 11/16/11

PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# TEST PIT # TP-BGC10-13

LOCATION: EAGLE PUP



SURVEY METHOD: Hand GPS
CO-ORDINATES (m): 460600E, 7100045N
GROUND ELEVATION (m): 1208
DATUM: UTM NAD 83

EXCAVATOR: 33T John Deere Excavator
OPERATOR: John Waugh

START DATE: 09 Aug 10
FINISH DATE: 09 Aug 10
FINAL DEPTH OF PIT (m): 4.5
LOGGED BY: AKU
REVIEWED BY: PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | WEATHERING GRADE | SYMBOL | LITHOLOGIC DESCRIPTION |
|---|---|---|---|---|---|
| 0 | | | | | Moss, vegetation, rootmat. |
| | | | | | BOULDERS and COBBLES<br>Trace sand, trace organics, loose, max particle size: 1000 mm, rootlets, boulders are granodiorote with trace iron staining, moist.<br>[COLLUVIUM] |
| 1 | | | | | GRAVEL (GW) and SAND<br>Cobbley, trace boulders, trace silt, well graded, loose to compact, max particle size: 300mm, sub-rounded to sub-angular, blocky, brown, moist, homogeneous, increasing boulder content with depth.<br>[COLLUVIUM] |
| 2 | | | | | |
| 3 | | | | | |
| | | | 5 | | SAND (SP)<br>Some gravel, some silt, trace clay, trace cobbles, gap graded, compact, orange, greyish brown, moist, homogeneous, weak cementation, iron staining on corestones (cobbles), easy to rip with excavator.<br>[COMPLETELY WEATHERED GRANODIORITE] |
| 4 | | | | | 3.8 m - Grain Size Analysis: 25% Gravel, 58% Sand, 6% Size Silt, 11% Size Clay |
| | | | 4 | | BEDROCK<br>Iron stained, blocky, fractured, harder to rip, (R3-R4), W4<br>[HIGHLY WEATHERED GRANODIORITE] |
| 5 | | | | | END OF TEST PIT AT 4.5 m<br><br>Notes:<br>1. No water observed<br>2. Refusal on bedrock. |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |

Su - kPa: 40, 80, 120, 160

| VANE | FIELD | LAB | |
|---|---|---|---|
| PEAK | ◆ | ■ | ▲ UC/2 |
| REMOLD | ◇ | □ | △ Pocket Pen /2 |

★ % Fines

Moisture Content: $W_P$% × — ○ — × $W_L$%; W% ○ at 20, 40, 60, 80

○ ★

EGP (TESTPIT) EGP_TESTPIT.GDL BGC.GDT 11/16/11

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CLIENT: Victoria Gold Corporation

PRINT DATE: 11/16/2011

PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# TEST PIT # TP-BGC10-14



LOCATION: EAGLE PUP

SURVEY METHOD: Hand GPS
CO-ORDINATES (m): 460377E, 7100366N
GROUND ELEVATION (m): 1070
DATUM: UTM NAD 83

EXCAVATOR: 33T John Deere Excavator
OPERATOR: John Waugh

START DATE: 09 Aug 10
FINISH DATE: 09 Aug 10
FINAL DEPTH OF PIT (m): 8.5
LOGGED BY: AKU
REVIEWED BY: PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | WEATHERING GRADE | SYMBOL | LITHOLOGIC DESCRIPTION |
|---|---|---|---|---|---|
| 0 | | | | | Moss, vegetation, rootmat. |
| | | | | | SAND (SM)<br>Silty, some cobbles, some gravel, well graded, loose, brown, moist.<br>[COLLUVIUM] |
| 1 | | | | | Interbedded topsoil and silty sand, peat and clay (organics)<br>Topsoil: brown, organic, sand, some silt, moist.<br>Silty sand: orange, trace gravel, moist<br>Silty clay: black, low plasticity less than 25 mm layer thickness, firm, organic, wood pieces.<br>[COLLUVIUM] |
| 2 | | | | | 1.5m - zones of frozen material, trace boulders, trace cobbles, some gravel. |
| | | | | | SAND (SW)<br>Trace silt, some gravel, some cobbles, well graded, compact, orange, moist, patches of frozen material.<br>[COLLUVIUM] |
| 3 | | | | | |
| | | | | | SAND (SM)<br>Some silt (silty zones), some gravel, trace cobbles, well graded, compact, sub-rounded to rounded, light grey brown, very moist, easy digging.<br>[COLLUVIUM] |
| 4 | | | | | |
| 5 | | | | | 5.2 m - Grain Size Analysis: 30% Gravel, 51% Sand, 19% Fines |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |

Su - kPa

40 80 120 160

| VANE | FIELD | LAB | |
|---|---|---|---|
| PEAK | ◆ | ■ | ▲ UC/2 |
| REMOLD | ◇ | □ | △ Pocket Pen /2 |

★ % Fines

Moisture Content

$W_P$% W% $W_L$%

20 40 60 80

*(Continued on next page)*

PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# TEST PIT # TP-BGC10-14



LOCATION: EAGLE PUP

SURVEY METHOD: Hand GPS
CO-ORDINATES (m): 460377E, 7100366N
GROUND ELEVATION (m): 1070
DATUM: UTM NAD 83

EXCAVATOR: 33T John Deere Excavator
OPERATOR: John Waugh

START DATE: 09 Aug 10
FINISH DATE: 09 Aug 10
FINAL DEPTH OF PIT (m): 8.5
LOGGED BY: AKU
REVIEWED BY: PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | WEATHERING GRADE | SYMBOL | LITHOLOGIC DESCRIPTION |
|---|---|---|---|---|---|
| 8 | | | | | 8.0 m - Water seeping into pit. |
| | | | | | END OF TEST PIT AT 8.5 m |
| | | | | | Notes:<br>1. Maximum reach of excavator. |
| 9 | | | | | |
| 10 | | | | | |
| 11 | | | | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

Su - kPa

40 80 120 160

| VANE | FIELD | LAB | |
|---|---|---|---|
| PEAK | ◆ | ■ | ▲ UC/2 |
| REMOLD | ◇ | □ | △ Pocket Pen /2 |

★ % Fines

Moisture Content

$W_P$% W% $W_L$%

20 40 60 80

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PRINT DATE: 11/16/2011

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PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# TEST PIT # TP-BGC10-15

LOCATION: EAGLE PUP



SURVEY METHOD: Hand GPS
CO-ORDINATES (m): 460410E, 7100594N
GROUND ELEVATION (m): 1065
DATUM: UTM NAD 83

EXCAVATOR: 33T John Deere Excavator
OPERATOR: John Waugh

START DATE: 09 Aug 10
FINISH DATE: 09 Aug 10
FINAL DEPTH OF PIT (m): 4.0
LOGGED BY: AKU
REVIEWED BY: PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | WEATHERING GRADE | SYMBOL | LITHOLOGIC DESCRIPTION |
|---|---|---|---|---|---|
| 0 | | | | | Moss, vegetation, rootmat. |
| | | | | | SAND (SW) and GRAVEL<br>Some cobbles, some silt, well graded, loose to compact, angular, brown, moist.<br>[COLLUVIUM] |
| 1 | | | | | SILT (ML) and CLAY<br>Some gravel, trace sand, trace cobbles, low plasticity, firm, moist.<br>[COLLUVIUM] |
| | | | | | GRAVEL (GP)<br>Sandy, trace cobbles, poorly graded, compact, red, grey, brown, angular.<br>[COLLUVIUM] |
| 2 | | | | | SAND (SM) and SILT<br>Some clay, trace gravel, well graded, compact, orange, white, red iron colour, moist.<br>[COMPLETELY WEATHERED GRANODIORITE]<br>1.50 m - Grain Size Analysis: 20% Gravel, 53% Sand, 27 % Fines |
| 3 | | | 5 | | |
| 4 | | | | | 3.80 m - Grain Size Analysis: 12% Gravel, 58% Sand, 30% Fines<br>3.80 m - Becomes weakly cemented, and dense.<br>END OF TEST PIT AT 4.0 m<br><br>Notes:<br>1. No water observed<br>2. Maximum reach of excavator |
| 5 | | | | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |

Su - kPa

40 80 120 160

| VANE | FIELD | LAB | |
|---|---|---|---|
| PEAK | ◆ | ■ | ▲ UC/2 |
| REMOLD | ◇ | □ | △ Pocket Pen /2 |

★ % Fines

Moisture Content

$W_P$% W% $W_L$%

20 40 60 80

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EGP (TESTPIT) EGP_TESTPIT.GDL BGC.GDT 11/16/11

# TEST PIT # TP-BGC10-16



PROJECT: Eagle Gold Project - Infrastructure
PROJECT NO.: 0792-004
LOCATION: EAGLE PUP

SURVEY METHOD: Hand GPS
CO-ORDINATES (m): 460168E, 7100829N
GROUND ELEVATION (m): 981
DATUM: UTM NAD 83

EXCAVATOR: 33T John Deere Excavator
OPERATOR: John Waugh

START DATE: 09 Aug 10
FINISH DATE: 09 Aug 10
FINAL DEPTH OF PIT (m): 3.8
LOGGED BY: AKU
REVIEWED BY: PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | WEATHERING GRADE | SYMBOL | LITHOLOGIC DESCRIPTION |
|---|---|---|---|---|---|
| 0 | | | | | Moss, vegetation, rootmat. |
| | | | | | SILT (SM)<br>Sandy, some gravel, low plasticity, firm, brown, moist.<br>[COLLUVIUM] |
| 1 | | | | | GRAVEL (GW)<br>Some sand, trace silt, angular, flat, up to cobble size, iron stained, extremely to highly fractured, moist.<br>[HIGHLY WEATHERED METASEDIMENTARY ROCK]<br>1.2 m - Becomes cobbles and gravel. |
| 2 | | | 4 | | |
| 3 | | | | | 2.5 m - Rock changes to fresh, but still highly fractured, cobbles. |
| 4 | | | | | END OF TEST PIT AT 3.8 m<br><br>Notes:<br>1. No water observed<br>2. No sample collected<br>3. End of test pit due to sloughing |
| 5 | | | | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |

Su - kPa
40 80 120 160

| VANE | FIELD | LAB | | |
|---|---|---|---|---|
| PEAK | ◆ | ■ | ▲ | UC/2 |
| REMOLD | ◇ | □ | △ | Pocket Pen /2 |

★ % Fines

Moisture Content
$W_P$% W% $W_L$%
20 40 60 80



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PRINT DATE: 11/16/2011

PROJECT: Eagle Gold Project - Infrastructure
PROJECT NO.: 0792-004

# TEST PIT # TP-BGC10-17

LOCATION: STUTTLE GULCH



SURVEY METHOD: Hand GPS
CO-ORDINATES (m): 459414E, 7100941N
GROUND ELEVATION (m): 873
DATUM: UTM NAD 83

EXCAVATOR: 33T John Deere Excavator
OPERATOR: John Waugh

START DATE: 09 Aug 10
FINISH DATE: 10 Aug 10
FINAL DEPTH OF PIT (m): 6.0
LOGGED BY: AKU
REVIEWED BY: PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | WEATHERING GRADE | SYMBOL | LITHOLOGIC DESCRIPTION |
|---|---|---|---|---|---|
| 0 | | | | | Grass and rootmat. |
| | | | | | SILT (ML)<br>Some sand, some gravel, some cobbles, non to low plasticity, soft, grey, organic odour, wet, layered, wood and organics.<br>[FILL] |
| 1 | | | | | |
| | | | | | 1.5 m - Very soft section. |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| | | | | | SILT (ML) and SAND<br>Some gravel, some cobbles, trace boulders, non to low plasticity, stiff to very stiff, greyish brown, moist, homogeneous, cobbles are sub-rounded.<br>[GLACIAL TILL?] |
| 5 | | | | | |
| 6 | | | | | END OF TEST PIT AT 6.0 m<br><br>Notes:<br>1. No water observed<br>2. Maximum reach of excavator. |
| 7 | | | | | |
| 8 | | | | | |

Su - kPa
40 80 120 160

| VANE | FIELD | LAB | |
|---|---|---|---|
| PEAK | ◆ | ■ | ▲ UC/2 |
| REMOLD | ◇ | □ | △ Pocket Pen /2 |

★ % Fines

Moisture Content
$W_P$% W% $W_L$%
20 40 60 80

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PRINT DATE: 11/16/2011

EGP (TESTPIT) EGP_TESTPIT.GDL BGC.GDT 11/16/11

PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# TEST PIT # TP-BGC10-18

LOCATION: EAGLE PUP



SURVEY METHOD: Hand GPS
CO-ORDINATES (m): 459480E, 7100988N
GROUND ELEVATION (m): 877
DATUM: UTM NAD 83

EXCAVATOR: 33T John Deere Excavator
OPERATOR: John Waugh

START DATE: 09 Aug 10
FINISH DATE: 09 Aug 10
FINAL DEPTH OF PIT (m): 7.5
LOGGED BY: AKU
REVIEWED BY: PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | WEATHERING GRADE | SYMBOL | LITHOLOGIC DESCRIPTION |
|---|---|---|---|---|---|
| 0 | | | | | Moss, vegetation, rootmat |
| | | | | | SAND (SM)<br>Silty, some cobbles, trace gravel, trace boulders, gap graded, loose to compact, angular, flat, brown, moist.<br>[COLLUVIUM] |
| 1 | | | | | SILT (ML)<br>Sandy, some gravel, some cobbles, trace clay, well graded, firm to stiff, sub-rounded to rounded, moist, homogeneous.<br>[GLACIAL TILL?] |
| | | | | | GRAVEL (GM)<br>Silty, sandy, moist.<br>[GLACIAL TILL?] |
| 2 | | | | | |
| 3 | | | | | 3.00 m - Grain Size Analysis: 50% Gravel, 27% Sand, 23% Fines |
| 4 | | | | | |
| | | | | | SILT (SM) and GRAVEL<br>Sandy, trace to some clay, very stiff, sub-angular to sub-rounded cobbles, greyish brown, moist, trace granodiorite boulders.<br>[GLACIAL TILL?]<br>5.00 m - Grain Size Analysis: 33% Gravel, 34% Sand, 23% Size Silt, 10% Size Clay |
| 5 | | | | | |
| 6 | | | | | |
| | | | | | SAND (SP) and GRAVEL<br>Trace silt, some cobbles, trace boulders (R4), compact, light brown.<br>[GLACIAL TILL?] |
| 7 | | | | | |
| | | | | | END OF TEST PIT AT 7.5 m<br><br>Notes: |
| 8 | | | | | |

Su - kPa: 40, 80, 120, 160

VANE PEAK ◆ FIELD ■ LAB ▲ UC/2
REMOLD ◇ □ △ Pocket Pen /2

★ % Fines

Moisture Content: $W_P$% × — ○ — × $W_L$%; 20, 40, 60, 80

*(Continued on next page)*

PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# *TEST PIT # TP-BGC10-18*

LOCATION: EAGLE PUP



SURVEY METHOD: Hand GPS
CO-ORDINATES (m): 459480E, 7100988N
GROUND ELEVATION (m): 877
DATUM: UTM NAD 83

EXCAVATOR: 33T John Deere Excavator
OPERATOR: John Waugh

START DATE: 09 Aug 10
FINISH DATE: 09 Aug 10
FINAL DEPTH OF PIT (m): 7.5
LOGGED BY: AKU
REVIEWED BY: PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | WEATHERING GRADE | SYMBOL | LITHOLOGIC DESCRIPTION |
|---|---|---|---|---|---|
| 8 | | | | | 1. No water observed<br>2. Maximum reach of excavator |
| 9 | | | | | |
| 10 | | | | | |
| 11 | | | | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

Su - kPa

40 80 120 160

| VANE | FIELD | LAB | |
|---|---|---|---|
| PEAK | ◆ | ■ | ▲ UC/2 |
| REMOLD | ◇ | □ | △ Pocket Pen /2 |

★ % Fines

Moisture Content

$W_P$% W% $W_L$%

20 40 60 80



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CLIENT: Victoria Gold Corporation

PRINT DATE: 11/16/2011

PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# TEST PIT # TP-BGC10-19

LOCATION: EAGLE PUP



SURVEY METHOD: Hand GPS
CO-ORDINATES (m): 459599E, 7100978N
GROUND ELEVATION (m): 899
DATUM: UTM NAD 83

EXCAVATOR: Tertiary Excavator
OPERATOR: John Waugh

START DATE: 10 Aug 10
FINISH DATE: 10 Aug 10
FINAL DEPTH OF PIT (m): 7.5
LOGGED BY: AKU
REVIEWED BY: PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | WEATHERING GRADE | SYMBOL | LITHOLOGIC DESCRIPTION |
|---|---|---|---|---|---|
| 0 | | | | | Moss, vegetation, rootmat. |
| | | | | | SAND (SP)<br>Gravelly, some silt, some cobbles, trace boulders (blocky granodiorite), poorly graded, compact, sub-angular to sub-rounded, very moist, homogeneous, roots to 0.5 m.<br>[COLLUVIUM] |
| 1 | | | | | 1.00 m - Grain Size Analysis: 43% Gravel, 40% Sand, 17% Fines |
| 2 | | | | | 1.75 m - Seepage.<br>1.8 m - FROZEN, Vx, structureless, excess ice. |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | | | |
| 7 | | | | | END OF TEST PIT AT 7.5 m |
| 8 | | | | | Notes: |

Su - kPa: 40, 80, 120, 160

| | VANE | FIELD | LAB | |
|---|---|---|---|---|
| PEAK | | ◆ | ■ | ▲ UC/2 |
| REMOLD | | ◇ | □ | △ Pocket Pen /2 |

★ % Fines

Moisture Content: $W_P$% × — — — ○ — — — × $W_L$%; W% 20, 40, 60, 80

*(Continued on next page)*

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PRINT DATE: 11/16/2011

PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# *TEST PIT # TP-BGC10-19*

LOCATION: EAGLE PUP



SURVEY METHOD: Hand GPS
CO-ORDINATES (m): 459599E, 7100978N
GROUND ELEVATION (m): 899
DATUM: UTM NAD 83

EXCAVATOR: Tertiary Excavator
OPERATOR: John Waugh

START DATE: 10 Aug 10
FINISH DATE: 10 Aug 10
FINAL DEPTH OF PIT (m): 7.5
LOGGED BY: AKU
REVIEWED BY: PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | WEATHERING GRADE | SYMBOL | LITHOLOGIC DESCRIPTION |
|---|---|---|---|---|---|
| 8 | | | | | 1. Water observed at 1.75 m<br>2. Refusal on frozen ground |
| 9 | | | | | |
| 10 | | | | | |
| 11 | | | | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

Su - kPa

40 80 120 160

| VANE | FIELD | LAB | |
|---|---|---|---|
| PEAK | ◆ | ■ | ▲ UC/2 |
| REMOLD | ◇ | □ | △ Pocket Pen /2 |

★ % Fines

Moisture Content

$W_P$% W% $W_L$%

20 40 60 80

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EGP (TESTPIT) EGP_TESTPIT.GDL BGC.GDT 11/16/11

PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# TEST PIT # TP-BGC10-20



LOCATION: EAGLE PUP

SURVEY METHOD: Hand GPS
CO-ORDINATES (m): 459756E, 7101062N
GROUND ELEVATION (m): 905
DATUM: UTM NAD 83

EXCAVATOR: 33T John Deere Excavator
OPERATOR: John Waugh

START DATE: 10 Aug 10
FINISH DATE: 10 Aug 10
FINAL DEPTH OF PIT (m): 3.2
LOGGED BY: AKU
REVIEWED BY: PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | WEATHERING GRADE | SYMBOL | LITHOLOGIC DESCRIPTION |
|---|---|---|---|---|---|
| 0 | | | | | Moss, vegetation, rootmat. |
| | | | | | SAND (SM)<br>Silty, some gravel, some cobbles, loose, brown, moist, trace roots.<br>[COLLUVIUM] |
| 1 | | | 3 | | BEDROCK<br>Brown, some iron staining, extremely to highly fractured, bonding evident, no other visible structure, (R3), W3. Cobbles are angular to sub-angular, moist.<br>[MODERATELY WEATHERED METASEDIMENTARY ROCK]<br>0.75 m - Sloughing. |
| 2 | | | | | |
| 3 | | | | | END OF TEST PIT AT 3.2 m<br><br>Notes:<br>1. No water observed<br>2. No sample collected<br>3. End of test pit due to sloughing |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |

Su - kPa

40 80 120 160

| VANE | FIELD | LAB | | |
|---|---|---|---|---|
| PEAK | ◆ | ■ | ▲ | UC/2 |
| REMOLD | ◇ | □ | △ | Pocket Pen /2 |

★ % Fines

Moisture Content

$W_P$% W% $W_L$%

20 40 60 80

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PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# TEST PIT # TP-BGC10-21



LOCATION: MIDDLE REACH DUBLIN GULCH

SURVEY METHOD: Hand GPS
CO-ORDINATES (m): 459841E, 7101288N
GROUND ELEVATION (m): 895
DATUM: UTM NAD 83

EXCAVATOR: 33T John Deere Excavator
OPERATOR: John Waugh

START DATE: 10 Aug 10
FINISH DATE: 10 Aug 10
FINAL DEPTH OF PIT (m): 6.5
LOGGED BY: AKU
REVIEWED BY: PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | WEATHERING GRADE | SYMBOL | LITHOLOGIC DESCRIPTION |
|---|---|---|---|---|---|
| 0 | | | | | Moss, vegetation, rootmat. |
| | | | | | SAND (SM)<br>Silty, orangish brown, trace organics, strippings, moist.<br>[FILL] |
| 3 | | | | | GRAVEL (GW)<br>Sandy, some cobbles, well graded, compact, sub-angular, wet (seepage), sloughing.<br>[FILL] |
| | | | | | SILT (ML)<br>Sandy, clayey, trace to some fine gravel (increasing content with depth), non to low plasticity, soft to firm, grey, no cementation, organic odour, moist to wet, homogeneous, quick dilatancy, trace organics, wood.<br>[FILL] |
| 5 | | | | | 5.00 m - Grain Size Analysis: 21% Gravel, 28% Sand, 40% Size Silt, 11% Size Clay |
| 6 | | | | | 6.00 m - Grain Size Analysis: 42% Gravel, 42% Sand, 16% Fines |
| | | | | | GRAVEL and SAND<br>Some silt, some cobbles, compact, sub-angular to sub-rounded, orange, wet. |
| | | | | | END OF THE TEST PIT AT 6.5 m |
| 7 | | | | | Notes:<br>1. Water observed in test pit at 3.0 m<br>2. End of test pit due to sloughing |
| 8 | | | | | |

Su - kPa: 40, 80, 120, 160

VANE PEAK ◆ REMOLD ◇ FIELD ■ □ LAB ▲ UC/2 △ Pocket Pen /2

★ % Fines

Moisture Content: $W_P$% × — $W$% ○ — $W_L$% ×; 20, 40, 60, 80

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PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# *TEST PIT # TP-BGC10-22*

LOCATION: MIDDLE REACH DUBLIN GULCH



SURVEY METHOD: Hand GPS
CO-ORDINATES (m): 459762E, 7101195N
GROUND ELEVATION (m): 884
DATUM: UTM NAD 83

EXCAVATOR: 33T John Deere Excavator
OPERATOR: John Waugh

START DATE: 10 Aug 10
FINISH DATE: 10 Aug 10
FINAL DEPTH OF PIT (m): 5.3
LOGGED BY: AKU
REVIEWED BY: PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | WEATHERING GRADE | SYMBOL | LITHOLOGIC DESCRIPTION |
|---|---|---|---|---|---|
| 0 | | | | | Moss, vegetation, rootmat. |
| | | | | | BOULDERS<br>Some sand, some cobbles, some gravel, rounded to sub-angular, brown, moist.<br>[COLLUVIUM] |
| 1 | | | 5 | | SAND (SP)<br>Some gravel, trace cobbles, trace boulders, moist, easily ripped with excavator.<br>[COMPLETELY WEATHERED GRANODIORITE] |
| 2 | | | 3 | | SAND (SM) and COBBLES<br>Silty, some boulders, no structure, hard to rip, orange, highly to moderately fractured, wet.<br>[MODERATELY WEATHERED GRANODIORITE] |
| 3 | | | 4 | | GRAVEL (GM)<br>Silty, max particle size: 20 mm, flat angular, platy, wet, completely fractured bedrock.<br>[HIGHLY WEATHERED METASEDIMENTARY ROCK] |
| 5 | | | | | END OF TEST PIT AT 5.3 m<br><br>Notes:<br>1. Water observed in test pit at 3.0 m<br>2. No sample collected<br>3. Refusal on bedrock |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |

Su - kPa

40 80 120 160

| VANE | FIELD | LAB | |
|---|---|---|---|
| PEAK | ◆ | ■ | ▲ UC/2 |
| REMOLD | ◇ | □ | △ Pocket Pen /2 |

★ % Fines

Moisture Content

$W_P$% W% $W_L$%

20 40 60 80



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PROJECT: Eagle Gold Project - Infrastructure
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# *TEST PIT # TP-BGC10-22B*

LOCATION: MIDDLE REACH DUBLIN GULCH



SURVEY METHOD: Hand GPS
CO-ORDINATES (m): E, N
GROUND ELEVATION (m):
DATUM: UTM NAD 83

EXCAVATOR: 33T John Deere Excavator
OPERATOR: John Waugh

START DATE: 10 Aug 10
FINISH DATE: 10 Aug 10
FINAL DEPTH OF PIT (m): 3.0
LOGGED BY: AKU
REVIEWED BY: PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | WEATHERING GRADE | SYMBOL | LITHOLOGIC DESCRIPTION |
|---|---|---|---|---|---|
| 0 | | | | | Leaves, vegetation, rootmat<br>[TOPSOIL] |
| | | | | | BOULDERS and SAND<br>Some cobbles, some silt, moderately graded, loose to compact, sub-rounded, light brown, increasing frequency of cobbles and boulders with depth.<br>[FILL] |
| 3 | | | | | END OF TEST PIT AT 3.0 m |
| | | | | | Notes:<br>1. No water observed<br>2. No samples collected |

Su - kPa
40 80 120 160

| | FIELD | LAB | |
|---|---|---|---|
| VANE | | | ▲ UC/2 |
| PEAK | ◆ | ■ | |
| REMOLD | ◇ | □ | △ Pocket Pen /2 |

★ % Fines

Moisture Content
$W_P$% W% $W_L$%
20 40 60 80

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PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# TEST PIT # TP-BGC10-23



LOCATION: MIDDLE REACH DUBLIN GULCH

SURVEY METHOD: Hand GPS
CO-ORDINATES (m): 459645E, 7101244N
GROUND ELEVATION (m): 880
DATUM: UTM NAD 83

EXCAVATOR: 33T John Deere Excavator
OPERATOR: John Waugh

START DATE: 10 Aug 10
FINISH DATE: 10 Aug 10
FINAL DEPTH OF PIT (m): 5.0
LOGGED BY: AKU
REVIEWED BY: PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | WEATHERING GRADE | SYMBOL | LITHOLOGIC DESCRIPTION |
|---|---|---|---|---|---|
| 0 | | | | | SAND (SW)<br>Some gravel, some boulders, trace silt, some cobbles, well graded, compact, sub-angular, brown, moist, no structure.<br>[FILL] |
| 1 | | | | | |
| | | | | | 1.5 m - difficult digging, boulder content increases with depth. |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | 4.0 m - Silty zone, wet. |
| 5 | | | | | END OF TEST PIT AT 5.0 m<br><br>Notes:<br>1. No water observed<br>2. Maximum reach of excavator |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |

Su - kPa

40 80 120 160

| VANE | FIELD | LAB | |
|---|---|---|---|
| PEAK | ◆ | ■ | ▲ UC/2 |
| REMOLD | ◇ | □ | △ Pocket Pen /2 |

★ % Fines

Moisture Content

$W_P$% × — — — — — ○ — — — — — × $W_L$%

W% 20 40 60 80

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PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# *TEST PIT # TP-BGC10-24*

LOCATION: DUBLIN GULCH VALLEY BOTTOM



SURVEY METHOD: Hand GPS
CO-ORDINATES (m): 459460E, 7101141N
GROUND ELEVATION (m): 858
DATUM: UTM NAD 83

EXCAVATOR: 33T John Deere Excavator
OPERATOR: John Waugh

START DATE: 10 Aug 10
FINISH DATE: 10 Aug 10
FINAL DEPTH OF PIT (m): 3.0
LOGGED BY: AKU
REVIEWED BY: PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | WEATHERING GRADE | SYMBOL | LITHOLOGIC DESCRIPTION |
|---|---|---|---|---|---|
| 0 | | | | | Leaves, vegetation, rootmat. |
| | | | | | SAND (SW) and BOULDERS<br>Some cobbles, some silt , well graded, loose to compact, sub-rounded, light brown, increasing frequency of cobbles and boulders with depth<br>[FILL] |
| 3 | | | | | END OF TEST PIT AT 3.0 m |
| | | | | | Notes:<br>1. No water observed<br>2. No samples collected<br>3. End of test pit due to sloughing. |

Su - kPa

40 80 120 160

| VANE | FIELD | LAB | | |
|---|---|---|---|---|
| PEAK | ◆ | ■ | ▲ | UC/2 |
| REMOLD | ◇ | □ | △ | Pocket Pen /2 |

★ % Fines

Moisture Content

$W_P$% W% $W_L$%

20 40 60 80



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PROJECT: Eagle Gold Project - Infrastructure

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# TEST PIT # TP-BGC10-25

LOCATION: ANN GULCH



SURVEY METHOD: Hand GPS
CO-ORDINATES (m): 459274E, 7101786N
GROUND ELEVATION (m): 1023
DATUM: UTM NAD 83

EXCAVATOR: 33T John Deere Excavator
OPERATOR: John Waugh

START DATE: 11 Aug 10
FINISH DATE: 11 Aug 10
FINAL DEPTH OF PIT (m): 6.5
LOGGED BY: AKU
REVIEWED BY: PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | WEATHERING GRADE | SYMBOL | LITHOLOGIC DESCRIPTION |
|---|---|---|---|---|---|
| 0 | | | | | Leaves, vegetation, rootmat. |
| | | | | | SAND (SM)<br>Silty, gravelly, dark grey.<br>[COLLUVIUM] |
| 1 | | | | | SAND (SW)<br>Some silt, some gravel, some cobbles, well graded, loose, sub-angular to angular, light brown, damp, roots to 0.8 m.<br>[COLLUVIUM] |
| | | | 4 | | BEDROCK<br>Brown, greyish highly fractured blocky quartzite, relict structure somewhat evident however too fractured to note jointing. Pockets of black shiny, soapy, fine grained, platy, (R1), W4, phyllic rock.<br>[HIGHLY WEATHERED METASEDIMENTARY ROCK] |
| 2 | | | | | |
| 3 | | | | | BEDROCK<br>Iron stained, fine grained, blocky, flat, coming out of hole as cobbles, gravel, trace sand, (R4), W3<br>[MODERATELY WEATHERED METASEDIMENTARY ROCK]<br>3.0 m - Slight Sloughing. |
| 4 | | | 3 | | 4.0 m - Cobble and boulder sized material coming out of hole, moderately fractured. Vertical jointing evident. Potential source of aggregate? |
| 5 | | | | | |
| 6 | | | | | |
| | | | | | END OF TEST PIT AT 6.5 m<br><br>Notes:<br>1. No water observed<br>2. No samples collected<br>3. Refusal on bedrock |
| 7 | | | | | |
| 8 | | | | | |

Su - kPa
40 80 120 160
VANE FIELD LAB ▲ UC/2
PEAK ◆ ■
REMOLD ◇ □ △ Pocket Pen /2
★ % Fines
Moisture Content
$W_P$% W% $W_L$%
20 40 60 80

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PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# TEST PIT # TP-BGC10-26

LOCATION: ANN GULCH



SURVEY METHOD: Hand GPS
CO-ORDINATES (m): 459422E, 7101934N
GROUND ELEVATION (m): 1023
DATUM: UTM NAD 83

EXCAVATOR: 33T John Deere Excavator
OPERATOR: John Waugh

START DATE: 11 Aug 10
FINISH DATE: 11 Aug 10
FINAL DEPTH OF PIT (m): 5.3
LOGGED BY: AKU
REVIEWED BY: PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | WEATHERING GRADE | SYMBOL | LITHOLOGIC DESCRIPTION |
|---|---|---|---|---|---|
| 0 | | | | | Vegetation, rootmat. |
| | | | | | SAND (SM)<br>Silty, some gravel, some cobbles, well graded, loose, sub-angular to angular, light brown, damp, trace roots.<br>[COLLUVIUM] |
| 1 | | | | | |
| 2 | | | 4.5 | | BEDROCK<br>Brown, fine grained, highly fractured. Comes out as SAND (SW), some gravel , some silt.<br>[HIGHLY TO COMPLETELY WEATHERED METASEDIMENTARY ROCK] |
| | | | | | BEDROCK<br>Black shiny, fine grained, soapy, platy, highly fractured, (R0), W4, comes out as gravel and coarse sand, crumbles to clay under finger pressure (graphite-like), zones with iron stained nodules, completely weathered to clay/silt. Easy to rip.<br>[HIGHLY WEATHERED METASEDIMENTARY ROCK]<br>2.50 m - Grain Size Analysis: 50% Gravel, 45% Sand, 2% Size Silt, 3% Size Clay. |
| 3 | | | | | |
| 4 | | | 4 | | |
| | | | | | BEDROCK<br>Black, fine grained, comes out as gravel, some highly fractured cobbles, very greasy surfaces, quartz nodules present, (R0-R1), W4. |
| 5 | | | | | |
| | | | | | END OF TEST PIT AT 5.3 m<br><br>Notes:<br>1. No water observed<br>2. Refusal on bedrock |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |

Su - kPa

40 80 120 160

| VANE | FIELD | LAB | |
|---|---|---|---|
| PEAK | ◆ | ■ | ▲ UC/2 |
| REMOLD | ◇ | □ | △ Pocket Pen /2 |

★ % Fines

Moisture Content

$W_P$% W% $W_L$%

20 40 60 80



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PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# TEST PIT # TP-BGC10-27

LOCATION: ANN GULCH



SURVEY METHOD: Hand GPS
CO-ORDINATES (m): 459394E, 7102090N
GROUND ELEVATION (m): 1045
DATUM: UTM NAD 83

EXCAVATOR: 33T John Deere Excavator
OPERATOR: John Waugh

START DATE: 11 Aug 10
FINISH DATE: 11 Aug 10
FINAL DEPTH OF PIT (m): 5.3
LOGGED BY: AKU
REVIEWED BY: PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | WEATHERING GRADE | SYMBOL | LITHOLOGIC DESCRIPTION |
|---|---|---|---|---|---|
| 0 | | | | | Vegetation, rootmat. |
| | | | | | SAND (SM)<br>Silty, some gravel, some cobbles, well graded, loose to compact, brown, damp.<br>[COLLUVIUM] |
| 1 | | | | | |
| 2 | | | 5 | | BEDROCK<br>Orange, fine grained, banded, comes out as gravel and sand, trace cobbles, weathered to clay in zones, greasy surface on some cobbles, platy, shiny, phyllitic.<br>[COMPLETELY WEATHERED METASEDIMENTARY ROCK] |
| 3 | | | | | |
| 4 | | | 4 | | BEDROCK<br>Grey, fine grained, comes out as gravel and cobbles, with some sand. Cobbles are blocky, platy.<br>[HIGHLY WEATHERED METASEDIMENTARY ROCK] |
| 5 | | | 3 | | BEDROCK<br>Grey, fine grained, comes out as gravel, cobbles and boulders, with some sand. Boulders show iron staining, angular, (R4). Jointing in rock not apparent.<br>[MODERATELY WEATHERED METASEDIMENTARY ROCK]<br>5.0 m - More cobbles |
| | | | | | END OF TEST PIT AT 5.3 m<br><br>Notes:<br>1. No water observed<br>2. Refusal on bedrock |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |

Su - kPa

40 80 120 160

| VANE | FIELD | LAB | |
|---|---|---|---|
| PEAK | ◆ | ■ | ▲ UC/2 |
| REMOLD | ◇ | □ | △ Pocket Pen /2 |

★ % Fines

Moisture Content

$W_P$% W% $W_L$%

20 40 60 80

EGP (TESTPIT) EGP_TESTPIT.GDL BGC.GDT 11/16/11

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PROJECT: Eagle Gold Project - Infrastructure
PROJECT NO.: 0792-004

# TEST PIT # TP-BGC10-28

LOCATION: WEST FLANK TIN DOME



SURVEY METHOD: Hand GPS
CO-ORDINATES (m): 459287E, 7102251N
GROUND ELEVATION (m): 1027
DATUM: UTM NAD 83

EXCAVATOR: 33T John Deere Excavator
OPERATOR: John Waugh

START DATE: 11 Aug 10
FINISH DATE: 11 Aug 10
FINAL DEPTH OF PIT (m): 0.5
LOGGED BY: AKU
REVIEWED BY: PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | WEATHERING GRADE | SYMBOL | LITHOLOGIC DESCRIPTION |
|---|---|---|---|---|---|
| 0 | | | | | Vegetation, rootmat. |
| | | | | | SAND (SM) and SILT<br>Trace fine gravel, non plastic to low plasticity, firm, very moist, grey brown, moist to wet, homogeneous, no cementation, medium dilatancy.<br>0.35 m - FROZEN, Vx,excess ice. |
| 1 | | | | | END OF TEST PIT AT 0.5m |
| | | | | | Notes:<br>1. No water observed<br>2. Refusal on frozen ground |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |

Su - kPa
40 80 120 160

| VANE | FIELD | LAB | | |
|---|---|---|---|---|
| PEAK | ◆ | ■ | ▲ | UC/2 |
| REMOLD | ◇ | □ | △ | Pocket Pen /2 |

★ % Fines

Moisture Content
$W_P$% W% $W_L$%
20 40 60 80

BGC ENGINEERING INC.
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CLIENT: Victoria Gold Corporation

PRINT DATE: 11/16/2011

EGP (TESTPIT) EGP_TESTPIT.GDL BGC.GDT 11/16/11

PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# TEST PIT # TP-BGC10-29



LOCATION: ANN GULCH

SURVEY METHOD: Hand GPS
CO-ORDINATES (m): 459520E, 7102249N
GROUND ELEVATION (m): 1049
DATUM: UTM NAD 83

EXCAVATOR: 33T John Deere Excavator
OPERATOR: John Waugh

START DATE: 11 Aug 10
FINISH DATE: 11 Aug 10
FINAL DEPTH OF PIT (m): 3.0
LOGGED BY: AKU
REVIEWED BY: PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | WEATHERING GRADE | SYMBOL | LITHOLOGIC DESCRIPTION |
|---|---|---|---|---|---|
| 0 | | | | | Vegetation, rootmat. |
| | | | | | SAND (SM) and SILT<br>Some gravel, trace cobbles, poorly graded, loose to compact, sub-angular to sub-rounded, brown, moist, roots to 0.5m.<br>[COLLUVIUM] |
| 1 | | | | | SILT (ML)<br>Some fine sand, some gravel, some cobbles, non plastic to low plasticity, stiff, moist, homogeneous.<br>[COLLUVIUM] |
| | | | 4 | | BEDROCK<br>Brown, highly fractured, comes out as gravel, sandy, trace silt, angular, moist.<br>[HIGHLY WEATHERED METASEDIMENTARY ROCK]<br>1.5 m - Sloughing. |
| 2 | | | | | |
| 3 | | | | | END OF TEST PIT AT 3.0 m<br><br>Notes:<br>1. No water observed in pit<br>2. No sample collected<br>3. End of test pit due to Sloughing |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |

Su - kPa

40 80 120 160

| VANE | FIELD | LAB | |
|---|---|---|---|
| PEAK | ◆ | ■ | ▲ UC/2 |
| REMOLD | ◇ | □ | △ Pocket Pen /2 |

★ % Fines

Moisture Content

$W_P$% × — — — — — ○ — — — — — × $W_L$%

W% 20 40 60 80



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CLIENT: Victoria Gold Corporation

PRINT DATE: 11/16/2011

PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# TEST PIT # TP-BGC10-30

LOCATION: ANN GULCH



SURVEY METHOD: Hand GPS
CO-ORDINATES (m): 459923E, 7102051N
GROUND ELEVATION (m): 1060
DATUM: UTM NAD 83

EXCAVATOR: 33T John Deere Excavator
OPERATOR: John Waugh

START DATE: 11 Aug 10
FINISH DATE: 11 Aug 10
FINAL DEPTH OF PIT (m): 5.5
LOGGED BY: AKU
REVIEWED BY: PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | WEATHERING GRADE | SYMBOL | LITHOLOGIC DESCRIPTION |
|---|---|---|---|---|---|
| 0 | | | | | Moss, vegetation, rootmat, topsoil. |
| | | | | | GRAVEL (GM) and SAND<br>Silty, some cobbles, well graded, loose to compact, blocky, sub-angular, moist, no cementation.<br>[COLLUVIUM] |
| 1 | | | | | 1.00 m - Grain Size Analysis: 43% Gravel, 28% Sand, 29% Fines |
| | | | | | COBBLES and SAND<br>Gravelly, some silt, loose to compact, sub-angular, no cementation.<br>[COLLUVIUM] |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | BEDROCK<br>Brown, iron staining, fine grained, comes out as gravel and sand, platy, silty, angular, flat, (R1).<br>[COMPLETELY WEATHERED METASEDIMENTARY ROCK] |
| | | | 5 | | |
| 5 | | | | | |
| | | | | | END OF TEST PIT AT 5.5 m<br><br>Notes:<br>1.No water observed<br>2. Refusal on bedrock and maximum reach of excavator |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |

Su - kPa

40 80 120 160

| VANE | FIELD | LAB | | |
|---|---|---|---|---|
| PEAK | ◆ | ■ | ▲ | UC/2 |
| REMOLD | ◇ | □ | △ | Pocket Pen /2 |

★ % Fines

Moisture Content

$W_P$% W% $W_L$%

20 40 60 80

○ ★

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CLIENT: Victoria Gold Corporation

PRINT DATE: 11/16/2011

EGP (TESTPIT) EGP_TESTPIT.GDL BGC.GDT 11/16/11

PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# TEST PIT # TP-BGC10-31

LOCATION: ANN GULCH



SURVEY METHOD: Hand GPS
CO-ORDINATES (m): 459817E, 7102120N
GROUND ELEVATION (m): 1048
DATUM: UTM NAD 83

EXCAVATOR: 33T John Deere Excavator
OPERATOR: John Waugh

START DATE: 11 Aug 10
FINISH DATE: 11 Aug 10
FINAL DEPTH OF PIT (m): 5.3
LOGGED BY: AKU
REVIEWED BY: PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | WEATHERING GRADE | SYMBOL | LITHOLOGIC DESCRIPTION |
|---|---|---|---|---|---|
| 0 | | | | | Vegetation, rootmat. |
| | | | | | SILT (ML)<br>Sandy, some gravel, some cobbles, none to low plasticity, firm to stiff. Zones of well graded silty sand, some gravel, some cobbles, sub-angular, compact, moist.<br>[COLLUVIUM] |
| 3 | | | 5 | | BEDROCK<br>Brown with iron staining, fine grained, comes out as gravel and silt, some clay, trace sand, trace cobbles, homogeneous, non plastic to low plasticity, firm, moist.<br>[COMPLETELY WEATHERED METASEDIMENTARY ROCK]<br><br>4.5 m - Becomes sand and gravel, some cobbles, some silt to silty, brown, moist, angular.<br>4.7 m - More cobbles, some cementation. |
| 5 | | | | | END OF TEST PIT AT 5.3 m<br><br>Notes:<br>1. No water observed<br>2. No sample collected<br>3. Maximum reach of excavator<br>4. Test pit walls remain vertical. |
| 8 | | | | | |

Su - kPa
40 80 120 160
VANE FIELD LAB ▲ UC/2
PEAK ◆ ■
REMOLD ◇ □ △ Pocket Pen /2
★ % Fines
Moisture Content
$W_P$% W% $W_L$%
20 40 60 80

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EGP (TESTPIT) EGP_TESTPIT.GDL BGC.GDT 11/16/11

PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# TEST PIT # TP-BGC10-32



LOCATION: MIDDLE REACH DUBLIN GULCH

SURVEY METHOD: Hand GPS
CO-ORDINATES (m): 459801E, 7101382N
GROUND ELEVATION (m): 902
DATUM: UTM NAD 83

EXCAVATOR: 33T John Deere Excavator
OPERATOR: John Waugh

START DATE: 12 Aug 10
FINISH DATE: 12 Aug 10
FINAL DEPTH OF PIT (m): 8.0
LOGGED BY: AKU
REVIEWED BY: PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | WEATHERING GRADE | SYMBOL | LITHOLOGIC DESCRIPTION |
|---|---|---|---|---|---|
| 0 | | | | | SAND (SM)<br>Some gravel, some cobbles, trace boulders, some silt to silty, well graded, loose to compact, sub-angular to sub-rounded, brown, moist, trace roots to 1.0m.<br>[FILL] |
| 3 | | | | | Bed of organics, dark brown to black, fiberous wood, roots. |
| 4 | | | | | SAND, GRAVEL, and COBBLES<br>Some boulders, silty, well graded, compact, harder digging due to boulders, sub-rounded, brown, moist.<br>[FILL]<br>4.0 m - More boulders, round- to sub-rounded, granodiorite, appear larger with depth.<br>4.00 m - Grain Size Analysis: 48% Gravel, 32% Sand, 20% Fines. |
| 7 | | | | | BOULDERS<br>Some gravel, some silt, boulders are granodiorite, rounded, gravel is metasedimentary. |
| 8 | | | | | |

Su - kPa
40 80 120 160
VANE FIELD LAB ▲ UC/2
PEAK ◆ ■
REMOLD ◇ □ △ Pocket Pen /2
★ % Fines
Moisture Content
$W_p$% W% $W_L$%
20 40 60 80

*(Continued on next page)*

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CLIENT: Victoria Gold Corporation

PRINT DATE: 11/16/2011

PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# *TEST PIT # TP-BGC10-32*



LOCATION: MIDDLE REACH DUBLIN GULCH

SURVEY METHOD: Hand GPS

CO-ORDINATES (m): 459801E, 7101382N

GROUND ELEVATION (m): 902

DATUM: UTM NAD 83

EXCAVATOR: 33T John Deere Excavator

OPERATOR: John Waugh

START DATE: 12 Aug 10

FINISH DATE: 12 Aug 10

FINAL DEPTH OF PIT (m): 8.0

LOGGED BY: AKU

REVIEWED BY: PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | WEATHERING GRADE | SYMBOL | LITHOLOGIC DESCRIPTION |
|---|---|---|---|---|---|
| 8 | | | | | END OF TEST PIT AT 8.0 m<br><br>Notes:<br>1. No water observed<br>2. Sample collected at 4.0 m<br>3. Maximum reach of excavator |
| 9 | | | | | |
| 10 | | | | | |
| 11 | | | | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

Su - kPa

40 80 120 160

| VANE | FIELD | LAB | | |
|---|---|---|---|---|
| PEAK | ◆ | ■ | ▲ | UC/2 |
| REMOLD | ◇ | □ | △ | Pocket Pen /2 |

★ % Fines

Moisture Content

$W_P$% W% $W_L$%

20 40 60 80



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CLIENT: Victoria Gold Corporation

PRINT DATE: 11/16/2011

PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# TEST PIT # TP-BGC10-33



LOCATION: WEST FLANK TIN DOME

SURVEY METHOD: Hand GPS

CO-ORDINATES (m): 458787E, 7101135N

GROUND ELEVATION (m): 868

DATUM: UTM NAD 83

EXCAVATOR: 33T John Deere Excavator

OPERATOR: John Waugh

START DATE: 12 Aug 10

FINISH DATE: 12 Aug 10

FINAL DEPTH OF PIT (m): 6.5

LOGGED BY: AKU

REVIEWED BY: PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | WEATHERING GRADE | SYMBOL | LITHOLOGIC DESCRIPTION |
|---|---|---|---|---|---|
| 0 | | | | | Vegetation, rootmat. |
| | | | | | SAND (SM)<br>Some gravel, silty, trace cobbles, gap graded, brown, moist, trace roots.<br>[COLLUVIUM] |
| 1 | | | | | SILT (ML)<br>Some fine sand, trace gravel, trace cobbles, none to low plasticity, firm, brown, moist, uniform.<br>[COLLUVIUM]<br>1.00 m - Grain Size Analysis: 7% Gravel, 17% Sand, 76% Fines |
| 2 | | | | | GRAVEL and SAND<br>Some cobbles, some silt, well graded, compact, sub-rounded, brown, moist.<br>[COLLUVIUM]<br>2.00 m - Grain Size Analysis: 54% Gravel, 39% Sand, 7% Fines |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | 5 | | BEDROCK<br>Grey, shiny iron staining, homogeneous, easy digging, comes out as (R0) gravel, some sand, areas of low plasticity clayey silt.<br>[COMPLETELY WEATHERED METASEDIMENTARY ROCK]<br><br>5.0 m - Material comes out as cobbles, gravel and sand, structure indicates downslope dipping. |
| 6 | | | | | |
| 7 | | | | | END OF TEST PIT AT 6.5 m<br><br>Notes:<br>1. No water observed<br>2. Maximum reach of excavator |
| 8 | | | | | |

Su - kPa

40 80 120 160

VANE FIELD LAB ▲ UC/2

PEAK ◆ ■

REMOLD ◇ □ △ Pocket Pen /2

★ % Fines

Moisture Content

$W_P$% W% $W_L$%

20 40 60 80

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PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# TEST PIT # TP-BGC10-34

LOCATION: WEST FLANK TIN DOME



SURVEY METHOD: Hand GPS
CO-ORDINATES (m): 458961E, 7101138N
GROUND ELEVATION (m): 852
DATUM: UTM NAD 83

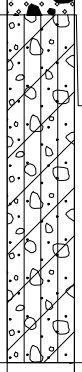
EXCAVATOR: 33T John Deere Excavator
OPERATOR: John Waugh

START DATE: 12 Aug 10
FINISH DATE: 12 Aug 10
FINAL DEPTH OF PIT (m): 6.5
LOGGED BY: AKU
REVIEWED BY: PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | WEATHERING GRADE | SYMBOL | LITHOLOGIC DESCRIPTION |
|---|---|---|---|---|---|
| 0 | | | | | Vegetation, rootmat, moss |
| | | | | | SAND (SM)<br>Trace to some cobbles, silty, well graded, compact, sub-angular to angular, greyish brown, moist, roots to 0.7m, increasing cobbles with depth.<br>[COLLUVIUM] |
| 1 | | | | | |
| | | | | | 1.6m - Wood present, small topsoil nodules. |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | 5 | | SAND (SM)<br>Cobbley, some gravel, silty, well graded, compact to dense, angular, greyish brown, moist, zones of fine sand and silt, faint structure, easy digging.<br>[COMPLETELY WEATHERED ROCK?]<br>4.00 m - Grain Size Analysis: 22% Gravel, 40% Sand, 38% Fines |
| 5 | | | 5 | | BEDROCK<br>Grey, shiny iron staining, homogeneous, easy digging, comes out as (R0) gravel, areas of low plasticity clayey silt<br>[COMPLETELY WEATHERED METASEDIMENTARY ROCK] |
| 6 | | | | | |
| 7 | | | | | END OF TEST PIT AT 6.5 m<br><br>Notes:<br>1. No water observed<br>2. Maximum reach of excavator |
| 8 | | | | | |

Su - kPa
40 80 120 160
VANE FIELD LAB ▲ UC/2
PEAK ◆ ■
REMOLD ◇ □ △ Pocket Pen /2
★ % Fines

Moisture Content
$W_P$% W% $W_L$%
20 40 60 80



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EGP (TESTPIT) EGP_TESTPIT.GDL BGC.GDT 11/16/11

PROJECT: Eagle Gold Project - Infrastructure
PROJECT NO.: 0792-004

# TEST PIT # TP-BGC10-35

LOCATION: ANN GULCH



SURVEY METHOD: Hand GPS
CO-ORDINATES (m): 459222E, 7101209N
GROUND ELEVATION (m): 880
DATUM: UTM NAD 83

EXCAVATOR: 33T John Deere Excavator
OPERATOR: John Waugh

START DATE: 12 Aug 10
FINISH DATE: 12 Aug 10
FINAL DEPTH OF PIT (m): 5.5
LOGGED BY: AKU
REVIEWED BY: PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | WEATHERING GRADE | SYMBOL | LITHOLOGIC DESCRIPTION |
|---|---|---|---|---|---|
| 0 | | | | | Rootmat, vegetation, moss, topsoil. |
| 1 | | | | | SAND (SM)<br>Silty, some gravel, well graded, loose, angular, brown, moist to wet.<br>[COLLUVIUM] |
| | | | | | SILT (ML)<br>Interbedded with topsoil, moist, organic ground, buried tree.<br>[COLLUVIUM] |
| 2 | | | | | SAND (SW)<br>Gravelly, some silt, some cobbles, well graded, loose to compact, angular, light brown, moist, homogeneous.<br>[COLLUVIUM] |
| 3 | | | | | BEDROCK<br>Comes out as cobbles, angular, flat, blocky, (R3), iron stained with some sand, some silt, some gravel, trace clay. Relict structure apparent, dipping into slope, easy digging, sloughing.<br>[MODERATELY TO HIGHLY WEATHERED ROCK] |
| | | | | | 3.5 m - Mostly cobbles and gravel, trace clay. |
| 4 | | | 3.5 | | |
| | | | | | 4.5 m - trace ice crystals on cobbles (Vc). |
| 5 | | | | | 5.3 m - Gravel and sand, some cobbles, flat, platy, shiny, phyllitic. |
| | | | | | END OF TEST PIT AT 5.5 m |
| 6 | | | | | Notes:<br>1. No water observed<br>2. No sample collected<br>3. Maximum reach of excavator |
| 7 | | | | | |
| 8 | | | | | |

Su - kPa
40 80 120 160

| VANE | FIELD | LAB | |
|---|---|---|---|
| PEAK | ◆ | ■ | ▲ UC/2 |
| REMOLD | ◇ | □ | △ Pocket Pen /2 |

★ % Fines

Moisture Content
$W_P$% W% $W_L$%
20 40 60 80

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EGP (TESTPIT) EGP_TESTPIT.GDL BGC.GDT 11/16/11

PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# *TEST PIT # TP-BGC10-36*



LOCATION: DUBLIN GULCH VALLEY BOTTOM

SURVEY METHOD: Hand GPS

CO-ORDINATES (m): 459216E, 7101005N

GROUND ELEVATION (m): 837

DATUM: UTM NAD 83

EXCAVATOR: 33T John Deere Excavator

OPERATOR: John Waugh

START DATE: 14 Aug 10

FINISH DATE: 14 Aug 10

FINAL DEPTH OF PIT (m): 4.5

LOGGED BY: AKU

REVIEWED BY: PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | WEATHERING GRADE | SYMBOL | LITHOLOGIC DESCRIPTION |
|---|---|---|---|---|---|
| 0 | | | | | Cobbles and gravel.<br>[FILL] |
| | | | | | CLAY (CL)<br>Silty, low plasticity, soft to firm, brown, greyish brown, orange, moist, stratified.<br>[FILL] |
| 1 | | | | | GRAVEL and SAND<br>Some silt, some cobbles, trace boulders, well graded, compact, blocky, moist, roots to 0.5m.<br>[FILL]<br>1.2 m - increasing boulders with depth, rounded. |
| 2 | | | | | 2.0 m - Sloughing. |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | END OF TEST PIT AT 4.5 m<br>Notes:<br>1. No water observed<br>2. No sample collected<br>3. End of test pit due to sloughing |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |

Su - kPa

40 80 120 160

| VANE | FIELD | LAB | | |
|---|---|---|---|---|
| PEAK | ◆ | ■ | ▲ | UC/2 |
| REMOLD | ◇ | □ | △ | Pocket Pen /2 |

★ % Fines

Moisture Content

$W_P$% × — — — — ○ — — — — × $W_L$%

20 40 60 80

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# TEST PIT # TP-BGC10-37



PROJECT: Eagle Gold Project - Infrastructure
PROJECT NO.: 0792-004
LOCATION: EAGLE PUP

SURVEY METHOD: Hand GPS
CO-ORDINATES (m): 459962E, 7100879N
GROUND ELEVATION (m): 930
DATUM: UTM NAD 83

EXCAVATOR: 33T John Deere Excavator
OPERATOR: John Waugh

START DATE: 14 Aug 10
FINISH DATE: 14 Aug 10
FINAL DEPTH OF PIT (m): 9.0
LOGGED BY: AKU
REVIEWED BY: PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | WEATHERING GRADE | SYMBOL | LITHOLOGIC DESCRIPTION |
|---|---|---|---|---|---|
| 0 | | | | | SAND (SM)<br>Silty, some gravel, some cobbles, trace boulders, loose, sub-rounded to rounded, brown, moist, roots<br>[FILL] |
| 1 | | | | | 1.2 m - More boulders with depth, rounded. |
| 2 | | | | | 2.0 m - Sloughing. |
| 3 | | | | | 3.5 m - Gravel content increases, trace organics. |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | | | SILT (ML) and SAND<br>Gravelly, stiff, moist, non plastic to low plasticity. Clasts are sub-angular to sub-rounded.<br>[GLACIAL TILL?]<br>6.00 m - Grain Size Analysis: 23% Gravel, 38% Sand, 39% Fines |
| 7 | | | | | 6.5 m - Becomes firm, very moist. |
| 8 | | | | | 7.5 m - Becomes stiff again. |

Su - kPa
40 80 120 160
VANE FIELD LAB ▲ UC/2
PEAK ◆ ■
REMOLD ◇ □ △ Pocket Pen /2
★ % Fines
Moisture Content
$W_P$% W% $W_L$%
20 40 60 80

*(Continued on next page)*

PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# TEST PIT # TP-BGC10-37



LOCATION: EAGLE PUP

SURVEY METHOD: Hand GPS
CO-ORDINATES (m): 459962E, 7100879N
GROUND ELEVATION (m): 930
DATUM: UTM NAD 83

EXCAVATOR: 33T John Deere Excavator
OPERATOR: John Waugh

START DATE: 14 Aug 10
FINISH DATE: 14 Aug 10
FINAL DEPTH OF PIT (m): 9.0
LOGGED BY: AKU
REVIEWED BY: PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | WEATHERING GRADE | SYMBOL | LITHOLOGIC DESCRIPTION |
|---|---|---|---|---|---|
| 8 | | | | | |
| 9 | | | | | END OF TEST PIT AT 9.0 m<br><br>Notes:<br>1. No water observed<br>2. No sample collected<br>3. End of test pit due to sloughing and maximum reach of excavator |
| 10 | | | | | |
| 11 | | | | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

Su - kPa

40 80 120 160

| VANE | FIELD | LAB | | |
|---|---|---|---|---|
| PEAK | ◆ | ■ | ▲ | UC/2 |
| REMOLD | ◇ | □ | △ | Pocket Pen /2 |

★ % Fines

Moisture Content

$W_P$% W% $W_L$%

20 40 60 80

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PRINT DATE: 11/16/2011

EGP (TESTPIT) EGP_TESTPIT.GDL BGC.GDT 11/16/11

PROJECT: Eagle Gold Project - Infrastructure
PROJECT NO.: 0792-004

# TEST PIT # TP-BGC10-38

LOCATION: DUBLIN GULCH VALLEY BOTTOM



SURVEY METHOD: Hand GPS
CO-ORDINATES (m): 459027E, 7100975N
GROUND ELEVATION (m): 830
DATUM: UTM NAD 83

EXCAVATOR: 33T John Deere Excavator
OPERATOR: John Waugh

START DATE: 14 Aug 10
FINISH DATE: 14 Aug 10
FINAL DEPTH OF PIT (m): 4.8
LOGGED BY: AKU
REVIEWED BY: PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | WEATHERING GRADE | SYMBOL | LITHOLOGIC DESCRIPTION |
|---|---|---|---|---|---|
| 0 | | | | | SAND (SW) and GRAVEL<br>Some cobbles, some boulders, some to trace silt, well graded, loose, sub-rounded to sub-angular, light brown, roots to 0.3m, moist.<br>[FILL] |
| 1 | | | | | |
| | | | | | 1.50 m - Grain Size Analysis: 46% Gravel, 49% Sand, 5% Fines |
| 2 | | | | | |
| 3 | | | | | 3.0 m - Some sloughing of sidewalls, variable amounts of boulders. |
| 4 | | | | | |
| | | | | | SAND (SM) and SILT<br>Some gravel, compact, brown, moist to wet. |
| 5 | | | | | END OF TEST PIT AT 4.8 m<br><br>Notes:<br>1. No water observed<br>2. End of test pit due to sloughing<br>3. Willows at surface |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |

Su - kPa
40 80 120 160
VANE FIELD LAB ▲ UC/2
PEAK ◆ ■
REMOLD ◇ □ △ Pocket Pen /2
★ % Fines
Moisture Content
$W_P$% W% $W_L$%
20 40 60 80

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CLIENT: Victoria Gold Corporation
PRINT DATE: 11/16/2011

EGP (TESTPIT) EGP_TESTPIT.GDL BGC.GDT 11/16/11

PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# TEST PIT # TP-BGC10-39



LOCATION: DUBLIN GULCH VALLEY BOTTOM

SURVEY METHOD: Hand GPS

CO-ORDINATES (m): 458848E, 7100939N

GROUND ELEVATION (m): 825

DATUM: UTM NAD 83

EXCAVATOR: 33T John Deere Excavator

OPERATOR: John Waugh

START DATE: 14 Aug 10

FINISH DATE: 14 Aug 10

FINAL DEPTH OF PIT (m): 5.5

LOGGED BY: AKU

REVIEWED BY: PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | WEATHERING GRADE | SYMBOL | LITHOLOGIC DESCRIPTION |
|---|---|---|---|---|---|
| 0 | | | | | SAND and GRAVEL<br>Trace to some silt, some cobbles, some boulders, loose to compact, sub-rounded to rounded, light brown, moist.<br>[FILL] |
| 1 | | | | | GRAVEL (GP) and SAND<br>Some silt, poorly graded, compact, angular to sub-angular, greyish brown, moist.<br>[FILL] |
| 2 | | | | | |
| 3 | | | | | SAND (SP) and GRAVEL<br>Some silt, trace cobbles, poorly graded, compact, sub-rounded, orangish brown to brown, moist.<br>[FILL] |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | | | END OF TEST PIT AT 5.5 m<br><br>Notes:<br>1. No water observed<br>2. End of test pit due to sloughing |
| 7 | | | | | |
| 8 | | | | | |

Su - kPa

40 80 120 160

| VANE | FIELD | LAB | |
|---|---|---|---|
| PEAK | ◆ | ■ | ▲ UC/2 |
| REMOLD | ◇ | □ | △ Pocket Pen /2 |

★ % Fines

Moisture Content

$W_P$% W% $W_L$%

20 40 60 80

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EGP (TESTPIT) EGP_TESTPIT.GDL BGC.GDT 11/16/11

# TEST PIT # TP-BGC10-40



PROJECT: Eagle Gold Project - Infrastructure
PROJECT NO.: 0792-004
LOCATION: DUBLIN GULCH VALLEY BOTTOM

SURVEY METHOD: Hand GPS
CO-ORDINATES (m): 458885E, 7100870N
GROUND ELEVATION (m): 816
DATUM: UTM NAD 83

EXCAVATOR: 33T John Deere Excavator
OPERATOR: John Waugh

START DATE: 14 Aug 10
FINISH DATE: 14 Aug 10
FINAL DEPTH OF PIT (m): 5.5
LOGGED BY: AKU
REVIEWED BY: PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | WEATHERING GRADE | SYMBOL | LITHOLOGIC DESCRIPTION |
|---|---|---|---|---|---|
| 0 | | | | | SAND (SM) and GRAVEL<br>Some silt to silty, trace cobbles, trace boulders, poorly graded, compact, sub-rounded to sub-angular, brown, moist, roots to 0.5m. Zones of SILT (ML), sandy.<br>[FILL] |
| 1 | | | | | |
| 2 | | | | | 2.0 m - Side walls sloughing.<br><br>2.5 m - Increase in boulder content. |
| 3 | | | | | |
| 4 | | | | | SAND (SM)<br>Silty, trace cobbles, poorly graded, greyish brown, very moist.<br>[FILL] |
| 5 | | | | | SAND (SP)<br>Gravelly, some silt, some cobbles, poorly graded, angular to sub-angular, greyish brown, wet.<br>[FILL] |
| 6 | | | | | END OF TEST PIT AT 5.5 m<br><br>Notes:<br>1. Water observed at 4.5 m<br>2. End of test pit due to sloughing |
| 7 | | | | | |
| 8 | | | | | |

Su - kPa
40 80 120 160

| VANE | FIELD | LAB | |
|---|---|---|---|
| PEAK | ◆ | ■ | ▲ UC/2 |
| REMOLD | ◇ | □ | △ Pocket Pen /2 |

★ % Fines

Moisture Content
$W_P$% W% $W_L$%
20 40 60 80

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PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# TEST PIT # TP-BGC10-41

LOCATION: ANN GULCH



SURVEY METHOD: Hand GPS
CO-ORDINATES (m): 459431E, 7101617N
GROUND ELEVATION (m): 942
DATUM: UTM NAD 83

EXCAVATOR: 33T John Deere Excavator
OPERATOR: John Waugh

START DATE: 20 Aug 10
FINISH DATE: 20 Aug 10
FINAL DEPTH OF PIT (m): 6.1
LOGGED BY: AKU
REVIEWED BY: PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | WEATHERING GRADE | SYMBOL | LITHOLOGIC DESCRIPTION |
|---|---|---|---|---|---|
| 0 | | | | | Vegetation, moss, topsoil. |
| | | | | | SAND (SM)<br>Silty, some gravel, some cobbles, well graded, loose, subangular, brown, moist.<br>[COLLUVIUM] |
| 1 | | | | | SILT (ML)<br>Trace gravel, trace sand, trace cobbles, low plastic, firm, brown, moist, homogeneous, slightly dilatant, trace wood.<br>[COLLUVIUM] |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| | | | 4 | | BEDROCK<br>Metasedimentary, fine grained, reddish brown, iron stained, comes out as cobbles, gravel, and sand. No apparent structure, easily rippable.<br>[HIGHLY WEATHERED METASEDIMENTARY ROCK] |
| 5 | | | | | |
| 6 | | | | | END OF TEST PIT AT 6.1 m<br><br>Notes:<br>1. No water observed.<br>2. No sample collected<br>3. End of test pit due to sloughing |
| 7 | | | | | |
| 8 | | | | | |

Su - kPa

40 80 120 160

| VANE | FIELD | LAB | | |
|---|---|---|---|---|
| PEAK | ◆ | ■ | ▲ | UC/2 |
| REMOLD | ◇ | □ | △ | Pocket Pen /2 |

★ % Fines

Moisture Content

$W_P$% W% $W_L$%

20 40 60 80



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PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# TEST PIT # TP-BGC10-42

LOCATION: ANN GULCH



SURVEY METHOD: Hand GPS
CO-ORDINATES (m): 459263E, 7101396N
GROUND ELEVATION (m): 917
DATUM: UTM NAD 83

EXCAVATOR: 33T John Deere Excavator
OPERATOR: John Waugh

START DATE: 20 Aug 10
FINISH DATE: 20 Aug 10
FINAL DEPTH OF PIT (m): 3.5
LOGGED BY: AKU
REVIEWED BY: PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | WEATHERING GRADE | SYMBOL | LITHOLOGIC DESCRIPTION |
|---|---|---|---|---|---|
| 0 | | | | | Vegetation, moss, topsoil. |
| | | | | | SAND (SM)<br>Silty, some gravel, some cobbles, well graded, loose to compact, subangular to angular, greyish brown, moist.<br>[COLLUVIUM] |
| 1 | | | | | 0.70 m - FROZEN, Vr, visible ice crystals, clear, veins, excess ice.<br><br>1.2 m - Grades to SILT (ML), sandy. |
| 2 | | | | | 2.0 m - Grain Size Analysis: 26% Gravel, 31% Sand, 43% Fines |
| 3 | | | | | |
| | | | | | END OF TEST PIT AT 3.5 m |
| 4 | | | | | Notes:<br>1. No water observed<br>2. Refusal on frozen ground |
| 5 | | | | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |

Su - kPa

40 80 120 160

| VANE | FIELD | LAB | |
|---|---|---|---|
| PEAK | ◆ | ■ | ▲ UC/2 |
| REMOLD | ◇ | □ | △ Pocket Pen /2 |

★ % Fines

Moisture Content

$W_P$% W% $W_L$%

20 40 60 80



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PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# TEST PIT # TP-BGC10-43

LOCATION: STUTTLE GULCH



SURVEY METHOD: Hand GPS
CO-ORDINATES (m): 459130E, 7100769N
GROUND ELEVATION (m): 861
DATUM: UTM NAD 83

EXCAVATOR: 33T John Deere Excavator
OPERATOR: John Waugh

START DATE: 20 Aug 10
FINISH DATE: 20 Aug 10
FINAL DEPTH OF PIT (m): 6.5
LOGGED BY: AKU
REVIEWED BY: PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | WEATHERING GRADE | SYMBOL | LITHOLOGIC DESCRIPTION |
|---|---|---|---|---|---|
| 0 | | | | | Leaves, rootmat, vegetation. |
| | | | | | SILT (ML)<br>Sandy, trace gravel, trace cobbles, loose, sub-angular, damp to moist.<br>[COLLUVIUM] |
| 1 | | | | | SAND (SM)<br>Silty to some silt, uniformly graded, loose to compact, brown, very damp to moist, roots and rootlets to 1.0m.<br>[ALLUVIUM?]<br>1.0 m - Becomes compact.65 |
| 2 | | | | | |
| | | | | | 2.5 m - Stratified with silt, 20 mm thickness (stiff, low plasticity, grey, clayey), trace cobbles. |
| 3 | | | | | |
| 4 | | | | | 4.00 m - Grain Size Analysis: 24% Sand, 76% Fines |
| 5 | | | | | SAND (SM)<br>Silty, some gravel, some cobbles, well graded, compact sub-rounded, grey, moist, homoegenous.<br>[GLACIAL TILL?]<br>5.20 m - Grain Size Analysis: 30% Gravel, 43% Sand, 24% Size Silt, 3% Size Clay |
| 6 | | | | | |
| | | | | | END OF TEST PIT AT 6.5 m<br><br>Notes:<br>1. No water observed<br>2. Maximum reach of excavator. |
| 7 | | | | | |
| 8 | | | | | |

Su - kPa

40 80 120 160

| VANE | FIELD | LAB | |
|---|---|---|---|
| PEAK | ◆ | ■ | ▲ UC/2 |
| REMOLD | ◇ | □ | △ Pocket Pen /2 |

★ % Fines

Moisture Content

$W_p$% W% $W_L$%

20 40 60 80



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PRINT DATE: 11/16/2011

PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# *TEST PIT # TP-BGC10-44*

LOCATION: STUTTLE GULCH



SURVEY METHOD: Hand GPS
CO-ORDINATES (m): 459200E, 7100590N
GROUND ELEVATION (m): 892
DATUM: UTM NAD 83

EXCAVATOR: 33T John Deere Excavator
OPERATOR: John Waugh

START DATE: 21 Aug 10
FINISH DATE: 21 Aug 10
FINAL DEPTH OF PIT (m): 6.0
LOGGED BY: AKU
REVIEWED BY: PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | WEATHERING GRADE | SYMBOL | LITHOLOGIC DESCRIPTION |
|---|---|---|---|---|---|
| 0 | | | | | Moss, rootmat, vegetation, topsoil. |
| | | | | | SAND (SW)<br>Some silt, some gravel, trace cobbles, well graded, loose, angular to sub-angular, reddish brown, moist, roots to 0.9m.<br>[COLLUVIUM] |
| 1 | | | | | SAND (SW)<br>Some silt, some cobbles, well graded, compact, sub-rounded to sub-angular, brown, moist, rootlets to 1.5m.<br>[COLLUVIUM] |
| 2 | | | | | 2.0 m - Grain Size Analysis: 34% Gravel, 61% Sand, 5% Fines |
| 3 | | | | | 3.0 m - FROZEN, Nbn |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | | | END OF TEST PIT AT 6.0 m<br><br>Notes:<br>1. No water observed<br>2. Refusal on frozen ground |
| 7 | | | | | |
| 8 | | | | | |

Su - kPa

40 80 120 160

| VANE | FIELD | LAB | |
|---|---|---|---|
| PEAK | ◆ | ■ | ▲ UC/2 |
| REMOLD | ◇ | □ | △ Pocket Pen /2 |

★ % Fines

Moisture Content

$W_P$% × — — — — ○ — — — — × $W_L$%

20 40 60 80

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# TEST PIT # TP-BGC10-45



PROJECT: Eagle Gold Project - Infrastructure
PROJECT NO.: 0792-004
LOCATION: STUTTLE GULCH

SURVEY METHOD: Hand GPS
CO-ORDINATES (m): 459232E, 7100742N
GROUND ELEVATION (m): 867
DATUM: UTM NAD 83

EXCAVATOR: 33T John Deere Excavator
OPERATOR: John Waugh

START DATE: 21 Aug 10
FINISH DATE: 21 Aug 10
FINAL DEPTH OF PIT (m): 6.7
LOGGED BY: AKU
REVIEWED BY: PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | WEATHERING GRADE | SYMBOL | LITHOLOGIC DESCRIPTION |
|---|---|---|---|---|---|
| 0 | | | | | Rootmat, cobbley, ground surface appears to have been previously stripped |
| | | | | | SAND (SM)<br>Silty, some cobbles, gravelly, trace boulders, loose to compact, sub-angular to sub-rounded, brown, moist, roots to 1.0m.<br>[COLLUVIUM] |
| 3.5 | | | | | BEDROCK<br>Light brown, iron staining, comes out as angular to sub-angular cobbles, gravel, sandy, silty, becomes difficult to excavate at 4.0m<br>[COLLUVIUM - REWORKED WEATHERED ROCK] |
| 5 | | | | | SILT (OL)<br>Some sand, low plasticity, firm to stiff, grey, damp, sulphur smell, roots.<br>[COLLUVIUM]<br>5.50 m - Grain Size Analysis: 5% Gravel, 15% Sand, 70% Size Silt, 10% Size Clay |
| 6.5 | | | | | GRAVEL (GM) and COBBLES<br>Silty, some sand, sub-rounded to sub-angular, grey, brown, iron staining.<br>[COLLUVIUM] |
| 6.7 | | | | | END OF TEST PIT AT 6.7 m<br><br>Notes:<br>1. No water observed<br>2. Maximum reach of excavator |

Su - kPa
40 80 120 160

| | FIELD | LAB | |
|---|---|---|---|
| VANE | | | ▲ UC/2 |
| PEAK | ◆ | ■ | |
| REMOLD | ◇ | □ | △ Pocket Pen /2 |

★ % Fines

Moisture Content
$W_P$% W% $W_L$%
20 40 60 80



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PRINT DATE: 11/16/2011

PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# TEST PIT # TP-BGC10-46



LOCATION: DUBLIN GULCH VALLEY BOTTOM

SURVEY METHOD: Hand GPS

CO-ORDINATES (m): 458380E, 7101022N

GROUND ELEVATION (m): 795

DATUM: UTM NAD 83

EXCAVATOR: 33T John Deere Excavator

OPERATOR: John Waugh

START DATE: 21 Aug 10

FINISH DATE: 21 Aug 10

FINAL DEPTH OF PIT (m): 6.7

LOGGED BY: AKU

REVIEWED BY: PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | WEATHERING GRADE | SYMBOL | LITHOLOGIC DESCRIPTION |
|---|---|---|---|---|---|
| 0 | | | | | SAND and GRAVEL and COBBLES and BOULDERS<br>Some silt, well graded, loose to compact, maximum particle size = 1.2 m, rounded, brown, moist to wet.<br>[FILL] |
| 4 | | | | | 4.5 m - Some boulders. |
| 6 | | | | | SAND (SM) and SILT<br>Uniformly graded, compact, brown, slightly dilatant, non plastic.<br>[FILL] |
| 7 | | | | | END OF TEST PIT AT 6.7 m<br><br>Notes:<br>1. No water observed<br>2. Maximum reach of excavator |
| 8 | | | | | |

Su - kPa

40 80 120 160

VANE FIELD LAB ▲ UC/2

PEAK ◆ ■

REMOLD ◇ □ △ Pocket Pen /2

★ % Fines

Moisture Content

$W_P$% W% $W_L$%

20 40 60 80

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CLIENT: Victoria Gold Corporation

PRINT DATE: 11/16/2011

EGP (TESTPIT) EGP_TESTPIT.GDL BGC.GDT 11/16/11

PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# TEST PIT # TP-BGC10-47



LOCATION: DUBLIN GULCH VALLEY BOTTOM

SURVEY METHOD: Hand GPS

CO-ORDINATES (m): 458486E, 7100918N

GROUND ELEVATION (m): 806

DATUM: UTM NAD 83

EXCAVATOR: 33T John Deere Excavator

OPERATOR: John Waugh

START DATE: 22 Aug 10

FINISH DATE: 22 Aug 10

FINAL DEPTH OF PIT (m): 5.3

LOGGED BY: AKU

REVIEWED BY: PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | WEATHERING GRADE | SYMBOL | LITHOLOGIC DESCRIPTION |
|---|---|---|---|---|---|
| 0 | | | | | SAND (SW) and GRAVEL<br>Some silt, some cobbles, trace boulders, well graded, loose to compact, subangular to subrounded, brown, moist<br>[FILL] |
| 2 | | | | | 2.0 m - Increase in cobble content. |
| 3 | | | | | BOULDERS and SAND<br>Some gravel, some cobbles, loose to compact, subangular to subrounded, brown, moist.<br>[FILL] |
| 3 | | | | | 3.4 m - Becomes silty. |
| 5 | | | | | END OF TEST PIT AT 5.3 m |
| | | | | | Notes:<br>1. No water observed<br>2. No samples collected<br>3. Maximum reach of excavator |

Su - kPa

40 80 120 160

| VANE | FIELD | LAB | | |
|---|---|---|---|---|
| PEAK | ◆ | ■ | ▲ | UC/2 |
| REMOLD | ◇ | □ | △ | Pocket Pen /2 |

★ % Fines

Moisture Content

$W_P$% W% $W_L$%

20 40 60 80

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PRINT DATE: 11/16/2011

EGP (TESTPIT) EGP_TESTPIT.GDL BGC.GDT 11/16/11

PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# TEST PIT # TP-BGC10-48



LOCATION: STEINER AREA

SURVEY METHOD: Hand GPS
CO-ORDINATES (m): 458508E, 7100106N
GROUND ELEVATION (m): 793
DATUM: UTM NAD 83

EXCAVATOR: 33T John Deere Excavator
OPERATOR: John Waugh

START DATE: 22 Aug 10
FINISH DATE: 22 Aug 10
FINAL DEPTH OF PIT (m): 3.5
LOGGED BY: AKU
REVIEWED BY: PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | WEATHERING GRADE | SYMBOL | LITHOLOGIC DESCRIPTION |
|---|---|---|---|---|---|
| 0 | | | | | SAND (SM)<br>Some silt to silty, trace to some cobbles, trace to some gravel, trace boulders, well graded to gap graded, loose, brown, moist.<br>[FILL] |
| 2 | | | | | 2.0 m - Water entering test pit, rapid seepage. |
| 3 | | | | | SILT (MH)<br>High plasticity, firm, grey, dark grey, very moist, dilatant, possible old pond liner.<br>[FILL]<br>3.00 m - Grain Size Analysis: 1% Gravel, 6% Sand, 75% Size Silt, 18% Size Clay. |
| 4 | | | | | END OF TEST PIT AT 3.5 m<br><br>Notes:<br>1. Water observed at 2.0 m<br>2. End of test pit due to sloughing at 2.0 m |

Su - kPa
40 80 120 160
VANE FIELD LAB ▲ UC/2
PEAK ◆ ■
REMOLD ◇ □ △ Pocket Pen /2
★ % Fines
Moisture Content
$W_P$% W% $W_L$%
20 40 60 80

EGP (TESTPIT) EGP_TESTPIT.GDL BGC.GDT 11/16/11

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PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# TEST PIT # TP-BGC10-49



LOCATION: DUBLIN GULCH VALLEY BOTTOM

SURVEY METHOD: Hand GPS
CO-ORDINATES (m): 458586E, 7100979N
GROUND ELEVATION (m): 808
DATUM: UTM NAD 83

EXCAVATOR: 33T John Deere Excavator
OPERATOR: John Waugh

START DATE: 22 Aug 10
FINISH DATE: 22 Aug 10
FINAL DEPTH OF PIT (m): 6.0
LOGGED BY: AKU
REVIEWED BY: PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | WEATHERING GRADE | SYMBOL | LITHOLOGIC DESCRIPTION |
|---|---|---|---|---|---|
| 0 | | | | | SAND (SP)<br>Trace silt, trace gravel, some cobbles, poorly graded, loose, sub-rounded, brown.<br>[FILL] |
| 1 | | | | | SAND (SW)<br>Some silt, some gravel, some cobbles, well graded, loose to compact, brown.<br>[FILL] |
| 2 | | | | | |
| 3 | | | | | SILT (ML)<br>Trace fine sand, trace rounded cobbles, trace rounded boulders, low plasticity, firm, brown, moist, high dilatancy.<br>[FILL?]<br>2.50 m - Grain Size Analysis: 2% Gravel, 4% Sand, 94% Fines |
| 4 | | | | | SAND (SP)<br>Some gravel, sub-rounded, loose to compact, brown, moist. |
| 5 | | | | | SILT (ML)<br>Some fine sand, low plasticity, firm, grey, sulphide smell, trace organics.<br><br>5.5 m - Becomes brown, wet, rapid seepage. |
| 6 | | | | | END OF TEST PIT AT 6.0 m<br><br>Notes:<br>1. Water observed at 5.5 m<br>2. End of test pit due to sloughing |
| 7 | | | | | |
| 8 | | | | | |

Su - kPa

40 80 120 160

VANE FIELD LAB ▲ UC/2
PEAK ◆ ■
REMOLD ◇ □ △ Pocket Pen /2

★ % Fines

Moisture Content

$W_P$% W% $W_L$%

20 40 60 80

○ ★

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# APPENDIX C
# TEST PIT PHOTOS

**Photo 1 – TP-BGC10-01**

**Photo 2 – TP-BGC10-01**

**Photo 3 – TP-BGC10-01**

**Photo 4 – TP-BGC10-01**

**Photo 5 – TP-BGC10-01**

**Photo 6 – TP-BGC10-01**

**Photo 7 – TP-BGC10-01**

**Photo 8 – TP-BGC10-02**

**Photo 9 – TP-BGC10-02**

**Photo 10 – TP-BGC10-02**

**Photo 11 – TP-BGC10-02**

**Photo 12– TP-BGC10-02**

**Photo 13 – TP-BGC10-02**

**Photo 14 – TP-BGC10-02**

**Photo 15 – TP-BGC10-02**

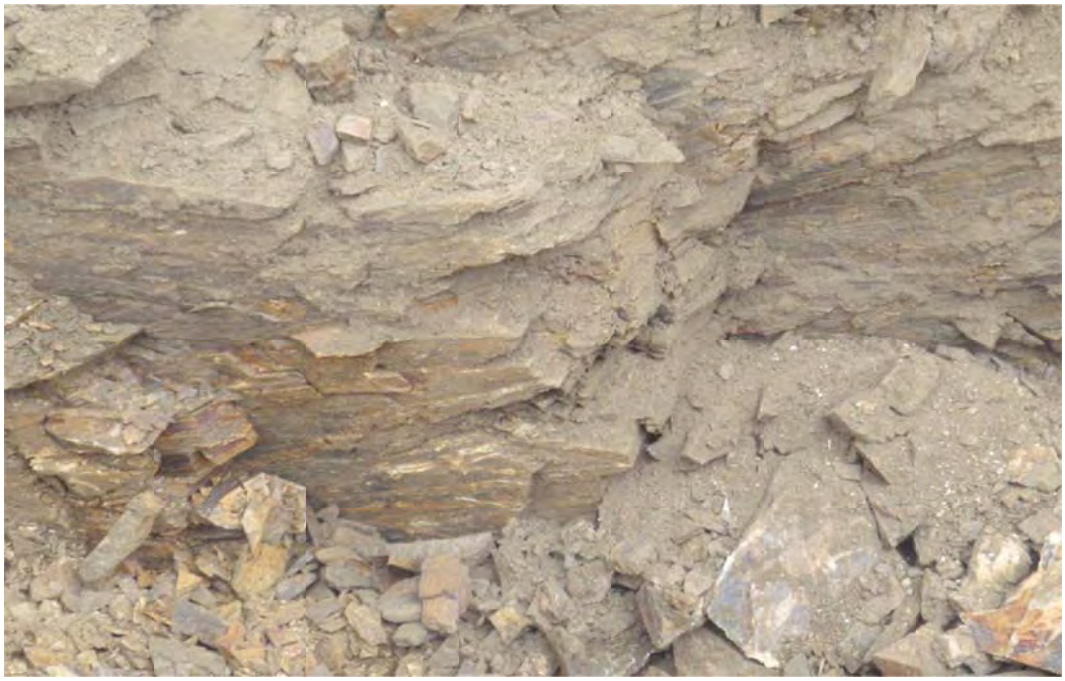

**Photo 16 – TP-BGC10-02**

**Photo 17 – TP-BGC10-02**

**Photo 18 – TP-BGC10-02**

**Photo 19 – TP-BGC10-02**

**Photo 20 – TP-BGC10-02**

**Photo 21 – TP-BGC10-03**

**Photo 22 – TP-BGC10-03**

**Photo 23 – TP-BGC10-03**

**Photo 24 – TP-BGC10-03**

**Photo 25– TP-BGC10-03**

**Photo 26 – TP-BGC10-03**

**Photo 27 – TP-BGC10-03**

**Photo 28 – TP-BGC10-03**

**Photo 29 – TP-BGC10-03**

**Photo 30 – TP-BGC10-04**

**Photo 31 – TP-BGC10-04**

**Photo 32 – TP-BGC10-04**

**Photo 33 – TP-BGC10-04**

**Photo 34 – TP-BGC10-04**

**Photo 35 – TP-BGC10-05**

**Photo 36 – TP-BGC10-05**

**Photo 37 – TP-BGC10-05**

**Photo 38 – TP-BGC10-05**

**Photo 39 – TP-BGC10-05**

**Photo 40 – TP-BGC10-05**

**Photo 41 – TP-BGC10-05**

**Photo 42 – TP-BGC10-06**

**Photo 43 – TP-BGC10-06**

**Photo 44 – TP-BGC10-06**

**Photo 45 – TP-BGC10-06**

**Photo 46 – TP-BGC10-06**

**Photo 47 – TP-BGC10-07**

**Photo 48 – TP-BGC10-07**

**Photo 49 – TP-BGC10-07**

**Photo 50 – TP-BGC10-07**

**Photo 51 – TP-BGC10-07**

**Photo 52 – TP-BGC10-07**

**Photo 53 – TP-BGC10-07**

**Photo 54 – TP-BGC10-07**

**Photo 55 – TP-BGC10-07**

**Photo 56 – TP-BGC10-08**

**Photo 57 – TP-BGC10-08**

**Photo 58 – TP-BGC10-08**

**Photo 59 – TP-BGC10-08**

**Photo 60 – TP-BGC10-08**

**Photo 61 – TP-BGC10-08**

**Photo 62 – TP-BGC10-08**

**Photo 63 – TP-BGC10-09**

**Photo 64 – TP-BGC10-09**

**Photo 65 – TP-BGC10-09**

**Photo 66 – TP-BGC10-10**

**Photo 67 – TP-BGC10-10**

**Photo 68 – TP-BGC10-10**

**Photo 69 – TP-BGC10-10**

**Photo 70 – TP-BGC10-11**

**Photo 71 – TP-BGC10-11**

**Photo 72 – TP-BGC10-11**

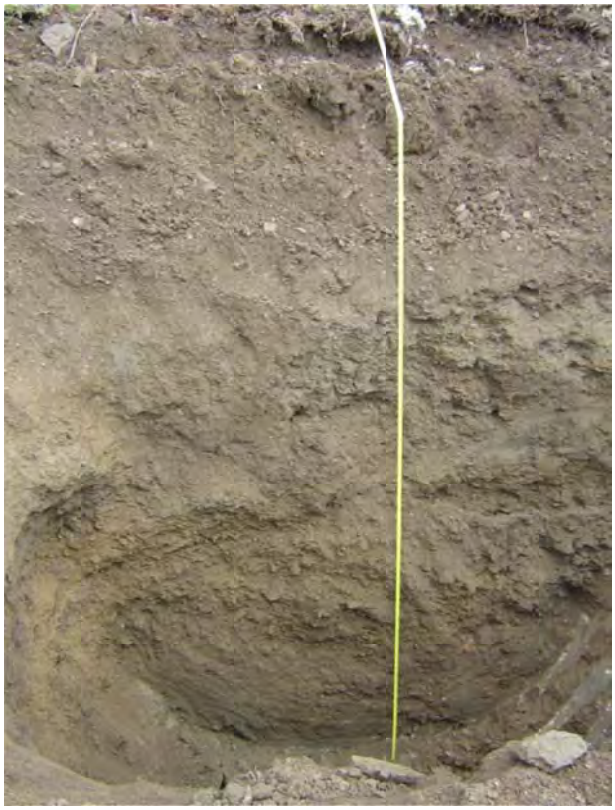

**Photo 73 – TP-BGC10-11**

**Photo 74 – TP-BGC10-12**

**Photo 75 – TP-BGC10-12**

**Photo 76 – TP-BGC10-12**

**Photo 77 – TP-BGC10-12**

**Photo 78 – TP-BGC10-12**

**Photo 79 – TP-BGC10-12**

**Photo 80 – TP-BGC10-12**

**Photo 81 – TP-BGC10-12**

**Photo 82 – TP-BGC10-12**

**Photo 83 – TP-BGC10-12**

**Photo 84 – TP-BGC10-12**

**Photo 85 – TP-BGC10-12**

**Photo 86 – TP-BGC10-13**

**Photo 87 – TP-BGC10-13**

**Photo 88 – TP-BGC10-13**

**Photo 89 – TP-BGC10-13**

**Photo 90 – TP-BGC10-13**

**Photo 91 – TP-BGC10-13**

**Photo 92 – TP-BGC10-14**

**Photo 93– TP-BGC10-14**

**Photo 94 – TP-BGC10-14**

**Photo 95– TP-BGC10-14**

**Photo 96 – TP-BGC10-14**

**Photo 97 – TP-BGC10-14**

**Photo 98 – TP-BGC10-14**

**Photo 99 – TP-BGC10-14**

**Photo 100 – TP-BGC10-14**

**Photo 101 – TP-BGC10-14**

**Photo 102 – TP-BGC10-15**

**Photo 103 – TP-BGC10-15**

**Photo 104 – TP-BGC10-15**

**Photo 105 – TP-BGC10-15**

**Photo 106 – TP-BGC10-15**

**Photo 107 – TP-BGC10-16**

**Photo 108 – TP-BGC10-16**

**Photo 109 – TP-BGC10-16**

**Photo 110 – TP-BGC10-16**

**Photo 111 – TP-BGC10-16**

**Photo 112 – TP-BGC10-17**

**Photo 113 – TP-BGC10-17**

**Photo 114 – TP-BGC10-17**

**Photo 115 – TP-BGC10-17**

**Photo 116 – TP-BGC10-17**

**Photo 117 – TP-BGC10-18**

**Photo 118 – TP-BGC10-18**

**Photo 119 – TP-BGC10-18**

**Photo 120 – TP-BGC10-18**

**Photo 121 – TP-BGC10-19**

**Photo 122 – TP-BGC10-19**

**Photo 123 – TP-BGC10-19**

**Photo 124 – TP-BGC10-19**

**Photo 125 – TP-BGC10-20**

**Photo 126 – TP-BGC10-20**

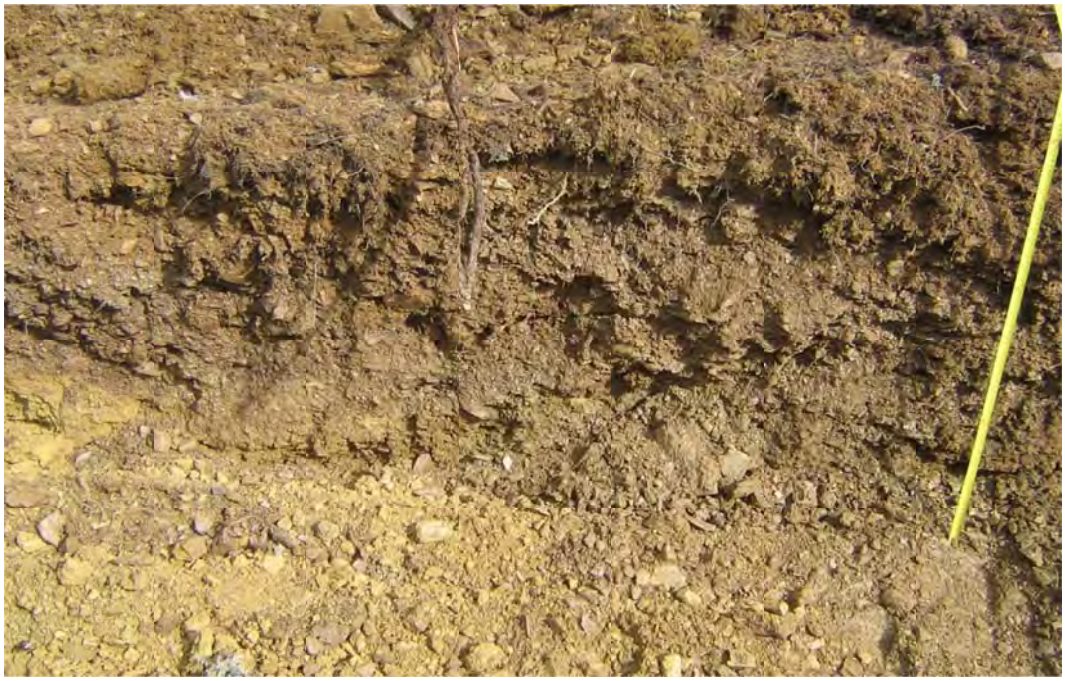

**Photo 127 – TP-BGC10-20**

**Photo 128 – TP-BGC10-20**

**Photo 129 – TP-BGC10-20**

**Photo 130 – TP-BGC10-21**

**Photo 131 – TP-BGC10-21**

**Photo 132 – TP-BGC10-21**

**Photo 133 – TP-BGC10-21**

**Photo 134 – TP-BGC10-22**

**Photo 135 – TP-BGC10-22**

**Photo 136 – TP-BGC10-22**

**Photo 137– TP-BGC10-22**

**Photo 138 – TP-BGC10-22**

**Photo 139 – TP-BGC10-22**

**Photo 140 – TP-BGC10-22**

**Photo 141 – TP-BGC10-22**

**Photo 142 – TP-BGC10-22**

**Photo 143 – TP-BGC10-22**

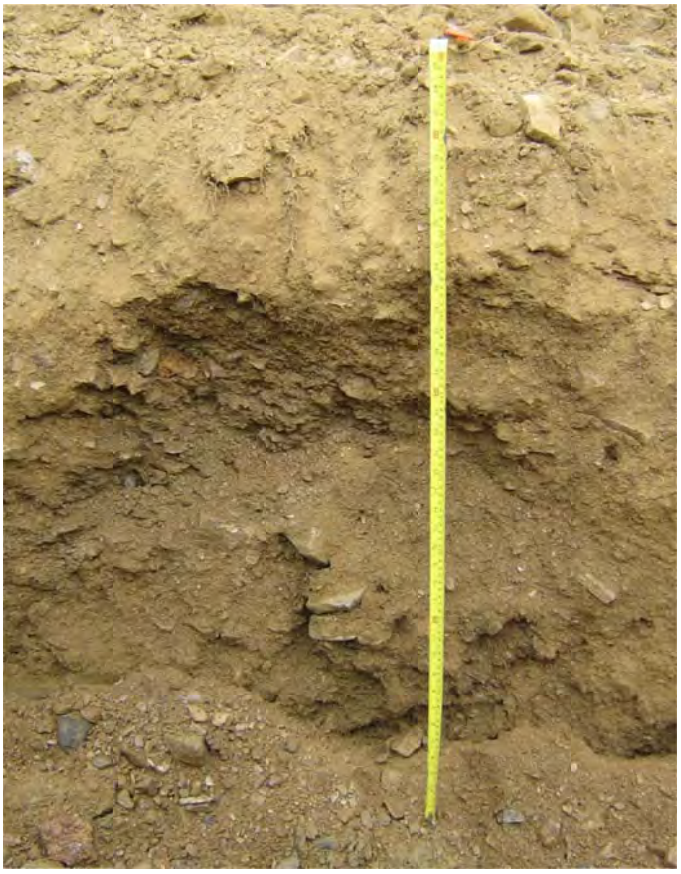

**Photo 144 – TP-BGC10-23**

**Photo 145 – TP-BGC10-23**

**Photo 146– TP-BGC10-23**

**Photo 147 – TP-BGC10-23**

**Photo 148 – TP-BGC10-24**

**Photo 149 – TP-BGC10-24**

**Photo 150 – TP-BGC10-24**

**Photo 151 – TP-BGC10-25**

**Photo 152 – TP-BGC10-25**

**Photo 153 – TP-BGC10-25**

**Photo 154 – TP-BGC10-25**

**Photo 155 – TP-BGC10-25**

**Photo 156 – TP-BGC10-25**

**Photo 157 – TP-BGC10-25**

**Photo 158 – TP-BGC10-26**

**Photo 159 – TP-BGC10-26**

**Photo 160 – TP-BGC10-26**

**Photo 161 – TP-BGC10-26**

**Photo 162 – TP-BGC10-26**

**Photo 163 – TP-BGC10-26**

**Photo 164 – TP-BGC10-26**

**Photo 165 – TP-BGC10-26**

**Photo 166 – TP-BGC10-26**

**Photo 167 – TP-BGC10-27**

**Photo 168 – TP-BGC10-27**

**Photo 169 – TP-BGC10-27**

**Photo 170 – TP-BGC10-27**

**Photo 171 – TP-BGC10-27**

**Photo 172 – TP-BGC10-28**

**Photo 173 – TP-BGC10-28**

**Photo 174 – TP-BGC10-28**

**Photo 175 – TP-BGC10-29**

**Photo 176 – TP-BGC10-29**

**Photo 177 – TP-BGC10-29**

**Photo 178 – TP-BGC10-29**

**Photo 179 – TP-BGC10-29**

**Photo 180 – TP-BGC10-29**

**Photo 181 – TP-BGC10-30**

**Photo 182 – TP-BGC10-30**

**Photo 183 – TP-BGC10-30**

**Photo 184 – TP-BGC10-30**

**Photo 185 – TP-BGC10-31**

**Photo 186 – TP-BGC10-31**

**Photo 187 – TP-BGC10-31**

**Photo 188 – TP-BGC10-31**

**Photo 189 – TP-BGC10-31**

**Photo 190 – TP-BGC10-31**

**Photo 191 – TP-BGC10-31**

**Photo 192 – TP-BGC10-32**

**Photo 193 – TP-BGC10-32**

**Photo 194 – TP-BGC10-32**

**Photo 195 – TP-BGC10-32**

**Photo 196 – TP-BGC10-32**

**Photo 197 – TP-BGC10-32**

**Photo 198 – TP-BGC10-32**

**Photo 199 – TP-BGC10-32**

**Photo 200 – TP-BGC10-32**

**Photo 201 – TP-BGC10-32**

**Photo 202 – TP-BGC10-32**

**Photo 203 – TP-BGC10-32**

**Photo 204 – TP-BGC10-32**

**Photo 205 – TP-BGC10-32**

**Photo 206 – TP-BGC10-32**

**Photo 207 – TP-BGC10-33**

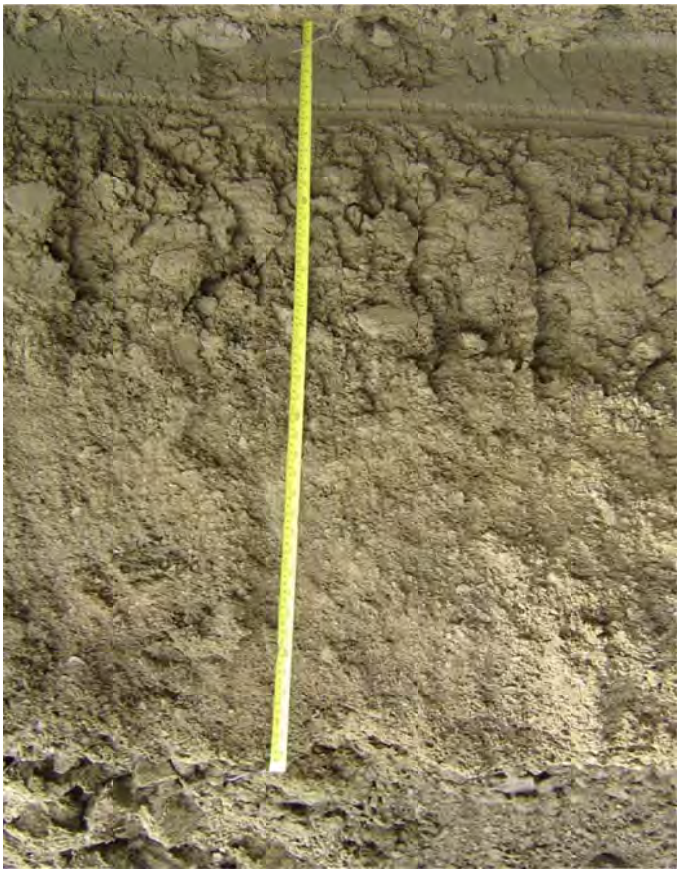

**Photo 208 – TP-BGC10-33**

**Photo 209 – TP-BGC10-33**

**Photo 210 – TP-BGC10-33**

**Photo 211 – TP-BGC10-33**

**Photo 212 – TP-BGC10-33**

**Photo 213 – TP-BGC10-33**

**Photo 214 – TP-BGC10-33**

**Photo 215 – TP-BGC10-33**

**Photo 216 – TP-BGC10-33**

**Photo 217 – TP-BGC10-34**

**Photo 218 – TP-BGC10-34**

**Photo 219 – TP-BGC10-34**

**Photo 220 – TP-BGC10-34**

**Photo 221 – TP-BGC10-34**

**Photo 222 – TP-BGC10-34**

**Photo 223 – TP-BGC10-34**

**Photo 224 – TP-BGC10-34**

**Photo 225 – TP-BGC10-34**

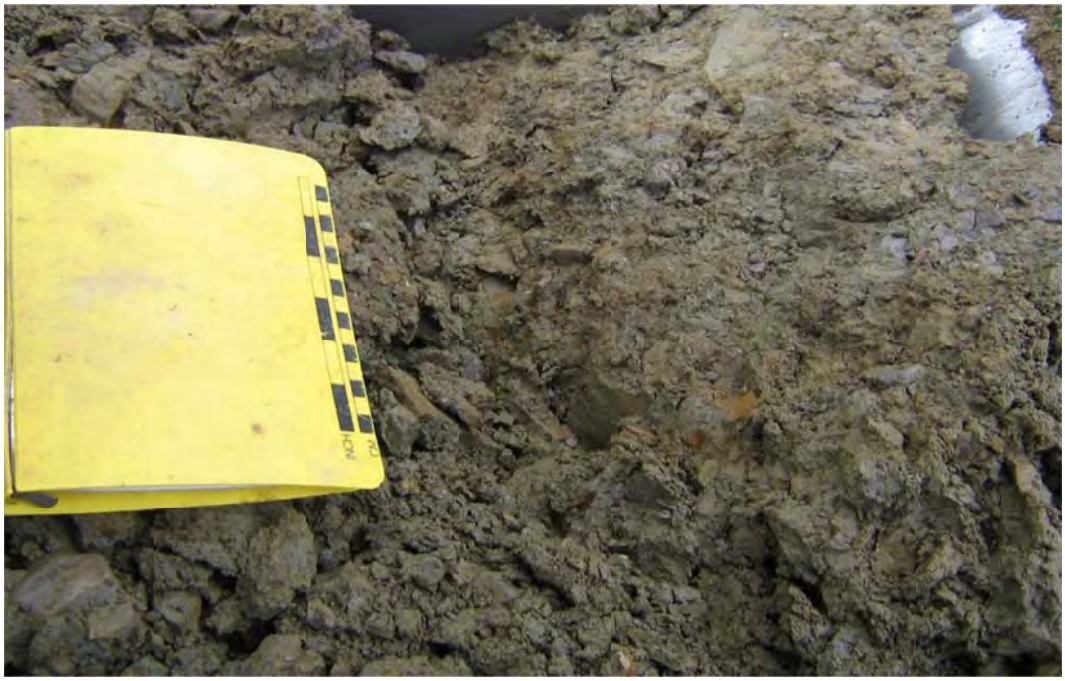

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**Photo 227 – TP-BGC10-34**

**Photo 228 – TP-BGC10-34**

**Photo 229 – TP-BGC10-35**

**Photo 230 – TP-BGC10-35**

**Photo 231 – TP-BGC10-35**

**Photo 232 – TP-BGC10-35**

**Photo 233 – TP-BGC10-35**

**Photo 234 – TP-BGC10-35**

**Photo 235 – TP-BGC10-35**

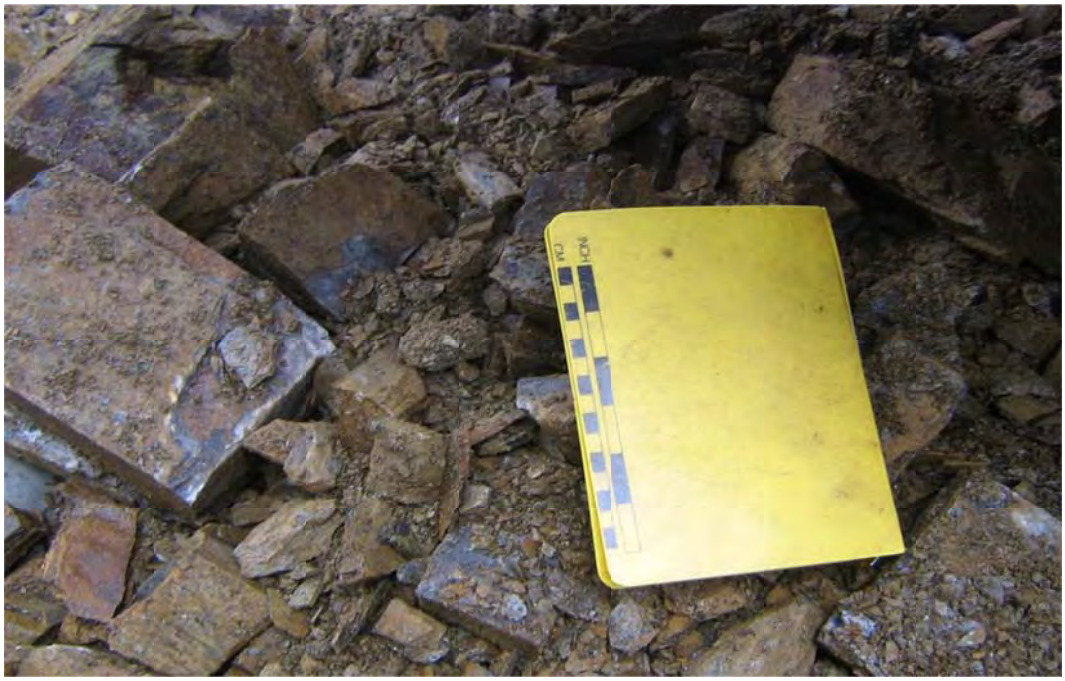


**Photo 236 – TP-BGC10-35**

**Photo 237 – TP-BGC10-35**

**Photo 238 – TP-BGC10-35**

**Photo 239 – TP-BGC10-35**

**Photo 240 – TP-BGC10-35**

**Photo 241 – TP-BGC10-35**

**Photo 242 – TP-BGC10-35**

**Photo 243 – TP-BGC10-35**

**Photo 244 – TP-BGC10-35**

**Photo 245 – TP-BGC10-36**

**Photo 246 – TP-BGC10-36**

**Photo 247 – TP-BGC10-36**

**Photo 248 – TP-BGC10-36**

**Photo 249 – TP-BGC10-36**

**Photo 250 – TP-BGC10-36**

**Photo 251 – TP-BGC10-37**


**Photo 252 – TP-BGC10-37**

**Photo 253 – TP-BGC10-37**

**Photo 254 – TP-BGC10-37**

**Photo 255 – TP-BGC10-37**

**Photo 256 – TP-BGC10-37**

**Photo 257 – TP-BGC10-37**

**Photo 258 – TP-BGC10-37**

**Photo 259 – TP-BGC10-37**

**Photo 260 – TP-BGC10-37**

**Photo 261 – TP-BGC10-38**

**Photo 262 – TP-BGC10-38**

**Photo 263 – TP-BGC10-38**

**Photo 264 – TP-BGC10-38**

**Photo 265 – TP-BGC10-38**

**Photo 266 – TP-BGC10-38**

**Photo 267 – TP-BGC10-38**

**Photo 268 – TP-BGC10-38**

**Photo 269 – TP-BGC10-39**

**Photo 270 – TP-BGC10-39**

**Photo 271 – TP-BGC10-39**

**Photo 272 – TP-BGC10-39**

**Photo 273 – TP-BGC10-39**

**Photo 274 – TP-BGC10-39**

**Photo 275 – TP-BGC10-39**

**Photo 276 – TP-BGC10-40**

**Photo 277 – TP-BGC10-40**

**Photo 278 – TP-BGC10-40**

**Photo 279 – TP-BGC10-40**

**Photo 280 – TP-BGC10-40**

**Photo 281 – TP-BGC10-41**

**Photo 282 – TP-BGC10-41**

**Photo 283 – TP-BGC10-41**

**Photo 284 – TP-BGC10-41**

**Photo 285 – TP-BGC10-41**

**Photo 286 – TP-BGC10-41**

**Photo 287 – TP-BGC10-41**

**Photo 288 – TP-BGC10-41**

**Photo 289 – TP-BGC10-41**

**Photo 290 – TP-BGC10-41**

**Photo 291 – TP-BGC10-42**

**Photo 292 – TP-BGC10-42**

**Photo 293 – TP-BGC10-42**

**Photo 294 – TP-BGC10-42**

**Photo 295 – TP-BGC10-42**

**Photo 296 – TP-BGC10-42**

**Photo 297 – TP-BGC10-43**

**Photo 298 – TP-BGC10-43**

**Photo 299 – TP-BGC10-43**

**Photo 300 – TP-BGC10-43**

**Photo 301 – TP-BGC10-43**

**Photo 302 – TP-BGC10-43**

**Photo 303 – TP-BGC10-43**

**Photo 304 – TP-BGC10-43**

**Photo 305 – TP-BGC10-43**

**Photo 306 – TP-BGC10-44**

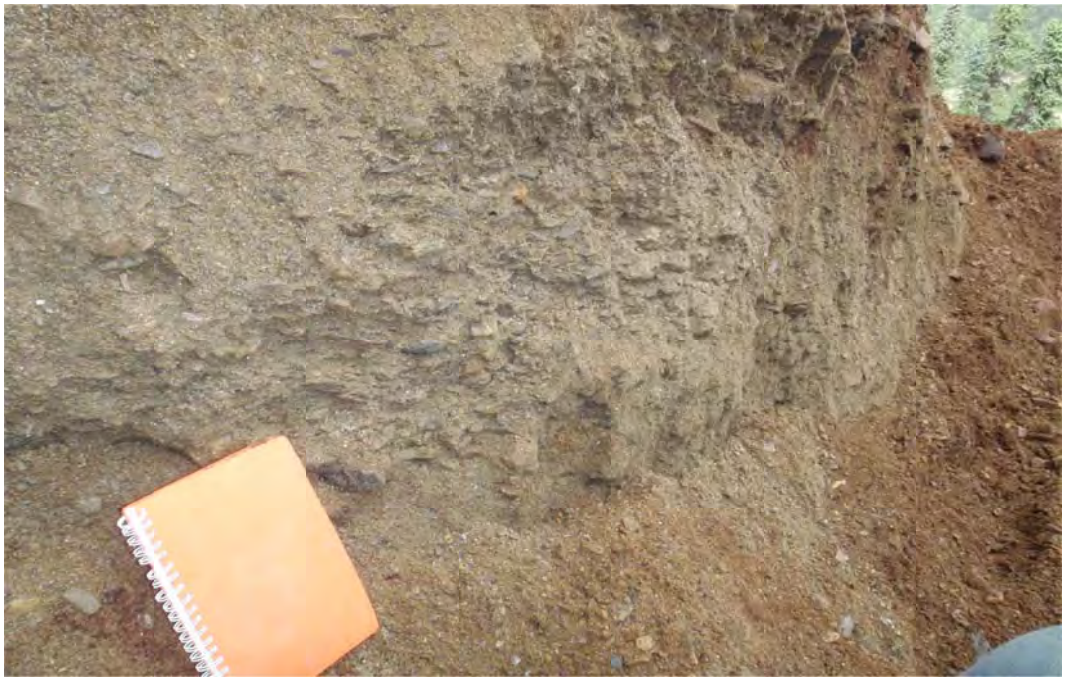


**Photo 307 – TP-BGC10-44**

**Photo 308 – TP-BGC10-44**

**Photo 309 – TP-BGC10-44**

**Photo 310 – TP-BGC10-44**

**Photo 311 – TP-BGC10-44**

**Photo 312 – TP-BGC10-45**

**Photo 313 – TP-BGC10-45**

**Photo 314 – TP-BGC10-45**

**Photo 315 – TP-BGC10-45**

**Photo 316 – TP-BGC10-45**

**Photo 317 – TP-BGC10-45**

**Photo 318 – TP-BGC10-46**

**Photo 319 – TP-BGC10-46**

**Photo 320 – TP-BGC10-46**

**Photo 321 – TP-BGC10-46**

**Photo 322 – TP-BGC10-46**

**Photo 323 – TP-BGC10-46**

**Photo 324 – TP-BGC10-46**

**Photo 325 – TP-BGC10-46**

**Photo 326 – TP-BGC10-46**

TP-BGC10-47 (No Photographs)

**Photo 327 – TP-BGC10-48**

**Photo 328 – TP-BGC10-48**

**Photo 329 – TP-BGC10-48**

**Photo 330 – TP-BGC10-48**

**Photo 331 – TP-BGC10-48**

**Photo 332 – TP-BGC10-48**

**Photo 333 – TP-BGC10-49**

**Photo 334 – TP-BGC10-49**

**Photo 335 – TP-BGC10-49**

**Photo 336 – TP-BGC10-49**

**Photo 337 – TP-BGC10-49**

**Photo 338 – TP-BGC10-49**

**Photo 339 – TP-BGC10-49**

# APPENDIX D
# BOREHOLE LOGS

PROJECT: Eagle Gold Project - Infrastructure
PROJECT NO.: 0792-004

# DRILL HOLE # BH-BGC10-1

LOCATION : ANN GULCH



CO-ORDINATES (m): 459906E - 7102065N
GROUND ELEVATION (m) : 1057
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : N/A

DRILL DESIGNATION : CS-10
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond
CORE : HQ3
FLUID : Water / Polymer
CASED TO (m) : 4.70

START DATE : 24 May 10
FINISH DATE : 25 May 10
FINAL DEPTH (m) : 20.4
DEPTH TO TOP OF ROCK (m) : 1.8
LOGGED BY : LGT/ASW
REVIEWED BY : PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | SYMBOL | LITHOLOGIC DESCRIPTION | INSTRUMENT DETAILS | SPT BLOWS PER 150mm |
|---|---|---|---|---|---|---|
| 0 | | | | No Recovery. For soil description, refer to test pit log TP-BGC10-30. | | |
| 1 | | | | | | |
| 2 | | | | Rock encountered at 1.83 m depth.<br>Refer to rock log. | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |

Su - kPa: 40, 80, 120, 160
★ % FINES
● SPT (blows/300mm)
RECOVERY: 20, 40, 60, 80
MOISTURE CONTENT & SPT N: $W_P$% — W% — $W_L$%: 20, 40, 60, 80

BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

CLIENT: Victoria Gold Corporation
PRINT DATE: 11/16/2011

EGP (SOIL) EGP_SOIL.GDL BGC.GDT 11/16/11

PROJECT: Eagle Gold Project - Infrastructure
PROJECT NO.: 0792-004

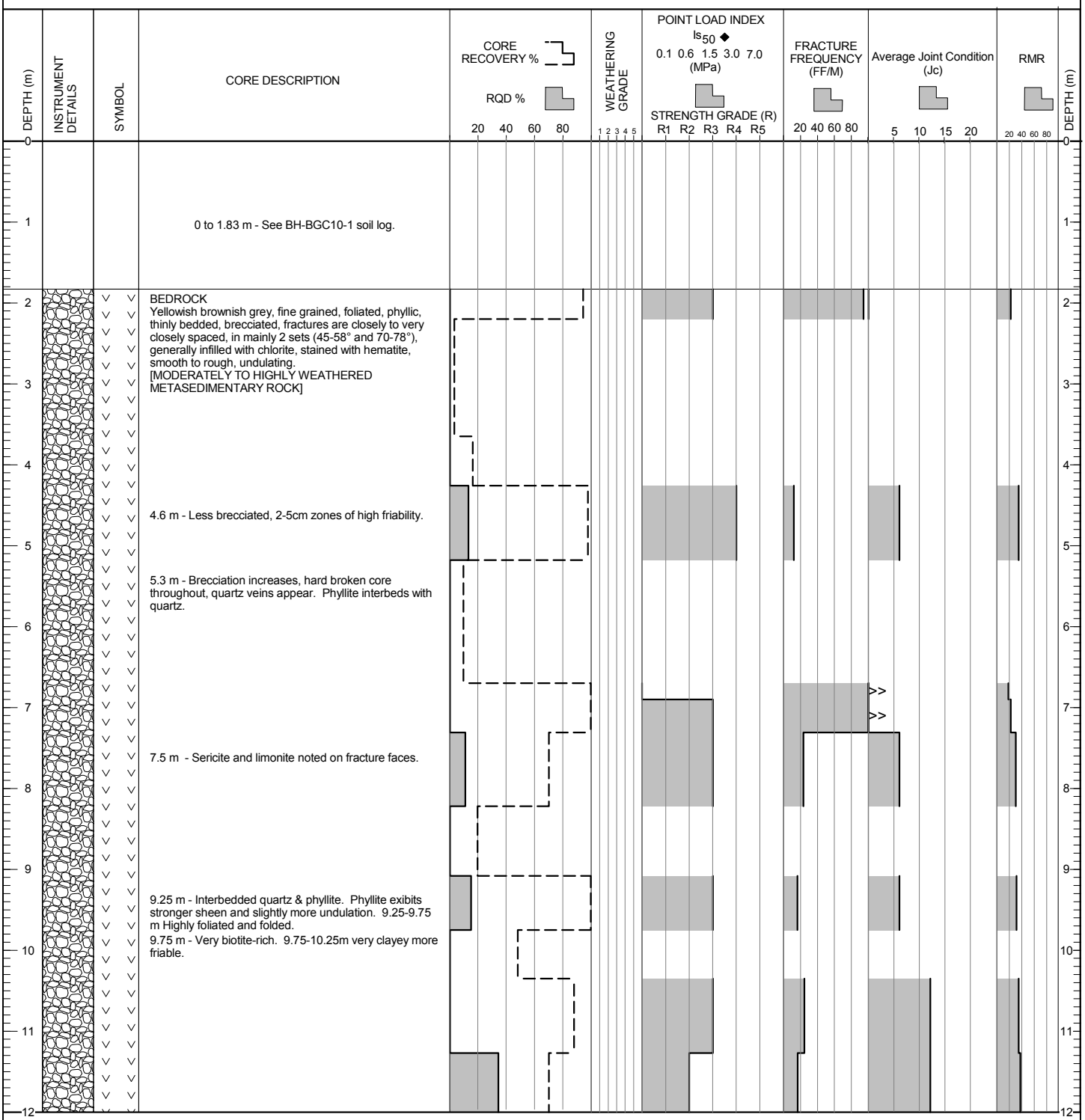
# DRILL HOLE # BH-BGC10-1

LOCATION : ANN GULCH

CO-ORDINATES (m) 459906E - 7102065N
GROUND ELEVATION (m) : 1057
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : n/a

DRILL DESIGNATION : CS-10
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond
CORE SIZE : HQ3
FLUID : Water / Polymer
CASED TO (m): 4.7

START DATE : 24 May 10
FINISH DATE : 25 May 10
FINAL DEPTH (m) : 20.4
DEPTH TO TOP OF ROCK (m) : 1.8
LOGGED BY : LGT/ASW
REVIEWED BY : PQ

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BGC ENGINEERING INC.
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CLIENT: Victoria Gold Corporation

PRINT DATE: 11/16/2011

PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# DRILL HOLE # BH-BGC10-1

LOCATION : ANN GULCH



CO-ORDINATES (m) 459906E - 7102065N
GROUND ELEVATION (m) : 1057
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : n/a

DRILL DESIGNATION : CS-10
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond
CORE SIZE : HQ3
FLUID : Water / Polymer
CASED TO (m): 4.7

START DATE : 24 May 10
FINISH DATE : 25 May 10
FINAL DEPTH (m) : 20.4
DEPTH TO TOP OF ROCK (m) : 1.8
LOGGED BY : LGT/ASW
REVIEWED BY : PQ

| DEPTH (m) | INSTRUMENT DETAILS | SYMBOL | CORE DESCRIPTION |
|---|---|---|---|
| 12 | | | 12.1 m - Fractures increase, foliation less planar. Oxides increase on fracture faces. |
| 13 | | | 13.35 m - Zone of clean and planar parallel joints at 75°. No visible replacement. |
| 14 | | | 14.32 m - 1-2 cm layers of biotite rich weathered phylitte, increase in friability. |
| 15 | | | |
| 16 | | | 16.2 m - Highly silicified quartzite-rich area. |
| 17 | | | 17.3 m - Very clayey ~40cm section of high friable biotite-phyllite. |
| 18 | | | 17.8 m - Highly silicified quartzite-rich area. |
| 19 | | | |
| 20 | | | 19.8 m - More phyllite rich section, less quartz. Very friable, dark grey, biotite-rich. |
| | | | End of borehole at 20.42 m. |
| 21 | | | |
| 22 | | | |
| 23 | | | |
| 24 | | | |

CORE RECOVERY %
RQD %
20 40 60 80

WEATHERING GRADE
1 2 3 4 5

POINT LOAD INDEX
$Is_{50}$ ◆
0.1 0.6 1.5 3.0 7.0
(MPa)
STRENGTH GRADE (R)
R1 R2 R3 R4 R5

FRACTURE FREQUENCY (FF/M)
20 40 60 80

Average Joint Condition (Jc)
5 10 15 20

RMR
20 40 60 80

DEPTH (m)



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CLIENT: Victoria Gold Corporation

PRINT DATE: 11/16/2011

PROJECT: Eagle Gold Project - Infrastructure
PROJECT NO.: 0792-004

# DRILL HOLE # BH-BGC10-2

LOCATION : ANN GULCH



CO-ORDINATES (m): 459436E - 7101609N
GROUND ELEVATION (m) : 949
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : N/A

DRILL DESIGNATION : CS-1000
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond
CORE : HQ3
FLUID : Water / Polymer
CASED TO (m) : 0.00

START DATE : 19 Aug 10
FINISH DATE : 19 Aug 10
FINAL DEPTH (m) : 20.5
DEPTH TO TOP OF ROCK (m) : 7.3
LOGGED BY : MM
REVIEWED BY : PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | SYMBOL | LITHOLOGIC DESCRIPTION | INSTRUMENT DETAILS | SPT BLOWS PER 150mm |
|---|---|---|---|---|---|---|
| 0 | | | | No Recovery. Refer to test pit # TP-BGC10-41 for soil description. | | |
| 7.3 | | | | Rock encountered at 7.30 m depth. Refer to rock log. | | |

Su - kPa: 40, 80, 120, 160
★ % FINES
● SPT (blows/300mm)
RECOVERY: 20, 40, 60, 80
MOISTURE CONTENT & SPT N: $W_P$% — W% — $W_L$%: 20, 40, 60, 80



BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

CLIENT: Victoria Gold Corporation
PRINT DATE: 11/16/2011

PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# DRILL HOLE # BH-BGC10-2

LOCATION : ANN GULCH



CO-ORDINATES (m) 459436E - 7101609N
GROUND ELEVATION (m) : 949
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : n/a

DRILL DESIGNATION : CS-1000
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond
CORE SIZE : HQ3
FLUID : Water / Polymer
CASED TO (m): 0

START DATE : 19 Aug 10
FINISH DATE : 19 Aug 10
FINAL DEPTH (m) : 20.5
DEPTH TO TOP OF ROCK (m) : 7.3
LOGGED BY : MM
REVIEWED BY : PQ

| DEPTH (m) | INSTRUMENT DETAILS | SYMBOL | CORE DESCRIPTION | CORE RECOVERY % / RQD % (20 40 60 80) | WEATHERING GRADE (1 2 3 4 5) | POINT LOAD INDEX $Is_{50}$ ◆ 0.1 0.6 1.5 3.0 7.0 (MPa) / STRENGTH GRADE (R) R1 R2 R3 R4 R5 | FRACTURE FREQUENCY (FF/M) (20 40 60 80) | Average Joint Condition (Jc) (5 10 15 20) | RMR (20 40 60 80) | DEPTH (m) |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | | | 0 to 7.30 m - See BH-BGC10-2 soil log. | | | | | | | 0 |
| 7 | | | BEDROCK<br>Grey to dark grey, fine grained, discontinuities are infilled with quartzite, iron stained, soapy, platy, shiny, corestone pieces are extremely weak to weak (R0-R2), W4, no visible structure from recovered core, phyllitic structure inferred.<br>[HIGHLY WEATHERED METASEDIMENTARY ROCK] | | | | | | | 7 |
| 12 | | | | | | | | | | 12 |

*(CONTINUED ON NEXT PAGE)*



BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

CLIENT: Victoria Gold Corporation

PRINT DATE: 11/16/2011

PROJECT: Eagle Gold Project - Infrastructure
PROJECT NO.: 0792-004

# DRILL HOLE # BH-BGC10-2

LOCATION : ANN GULCH

CO-ORDINATES (m) 459436E - 7101609N
GROUND ELEVATION (m) : 949
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : n/a

DRILL DESIGNATION : CS-1000
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond
CORE SIZE : HQ3
FLUID : Water / Polymer
CASED TO (m): 0

START DATE : 19 Aug 10
FINISH DATE : 19 Aug 10
FINAL DEPTH (m) : 20.5
DEPTH TO TOP OF ROCK (m) : 7.3
LOGGED BY : MM
REVIEWED BY : PQ

| DEPTH (m) | INSTRUMENT DETAILS | SYMBOL | CORE DESCRIPTION |
|---|---|---|---|
| 12 | | | 12.2 m - Limited recovery: two clods of soapy firm clay. |
| 13 | | | |
| 14 | | | |
| 15 | | | |
| 16 | | | |
| 17 | | | |
| 18 | | | 17.80 m - Limited recovery. |
| 19 | | | |
| 20 | | | |
| 21 | | | End of borehole at 20.46m.<br>Notes:<br>1. Hole terminated due to ground conditions preventing rods and core barrel from being safely extracted. |
| 22 | | | |
| 23 | | | |
| 24 | | | |

CORE RECOVERY %
RQD % — 20 40 60 80

WEATHERING GRADE — 1 2 3 4 5

POINT LOAD INDEX $Is_{50}$ ◆ 0.1 0.6 1.5 3.0 7.0 (MPa)
STRENGTH GRADE (R) — R1 R2 R3 R4 R5

FRACTURE FREQUENCY (FF/M) — 20 40 60 80

Average Joint Condition (Jc) — 5 10 15 20

RMR — 20 40 60 80

DEPTH (m)

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PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# DRILL HOLE # BH-BGC10-3

LOCATION : MIDDLE REACH DUBLIN GULCH

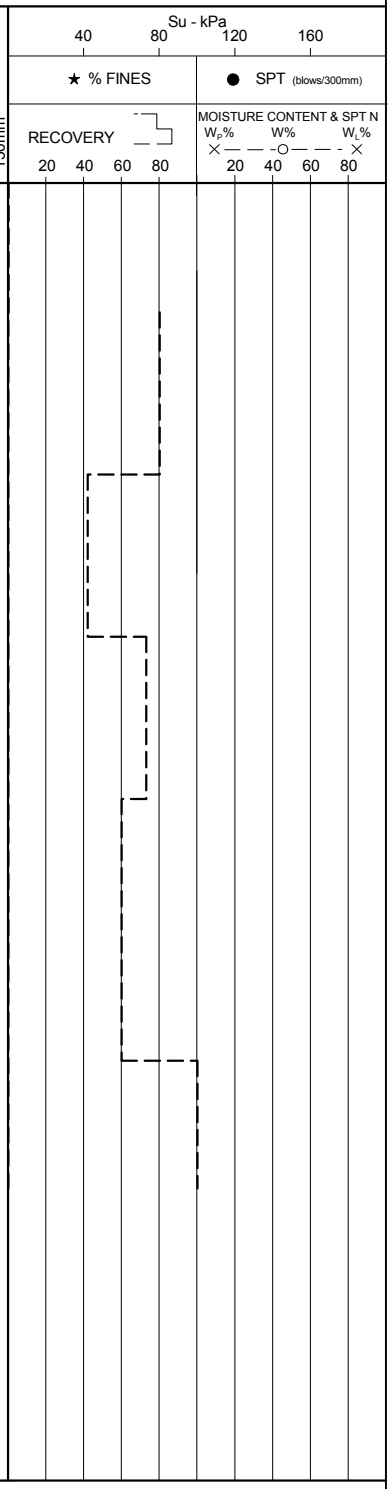


CO-ORDINATES (m): 459656E - 7101217N
GROUND ELEVATION (m) : 878
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : N/A

DRILL DESIGNATION : CS-10
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond/PQ
CORE : PQ
FLUID : Water/Polymer
CASED TO (m) : 6.00

START DATE : 15 May 10
FINISH DATE : 16 May 10
FINAL DEPTH (m) : 50.7
DEPTH TO TOP OF ROCK (m) : 9.3
LOGGED BY : TW/ASW
REVIEWED BY : PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | SYMBOL | LITHOLOGIC DESCRIPTION | INSTRUMENT DETAILS | SPT BLOWS PER 150mm |
|---|---|---|---|---|---|---|
| 0 | | | | No Recovery. Refer to test pit # TP-BGC10-23 for soil description. | | |
| 1 | | | | GRAVEL (GW)<br>Sandy, some boulders, trace to some cobbles, max. particle size= >40mm, equant, angular to sub-angular, bluish grey and pinkish white. Large clasts are strong (R4), bluish grey, granodiorite, quartzite.<br>[FILL] | | |
| 2 | | | | 1.83 m - Sand is greyish brown. | | |
| 3 | | | | 2.7 m - Trace sand, well graded, max. particle size= 300 mm, mostly equant, some are flat. | | |
| 4 | | | | | | |
| 5 | | | | 4.81 m - Max. particle size= 400 mm, angular to subangular, bluish grey to whitish pink, sand is yellowish brown. | | |
| 6 | | | | 5.7 m - Sandy, trace silt, well graded, max. particle size= 50 mm. | | |
| 7 | | | | 6.2 m - Boulders are light bluish grey, fine grained, porphyritic, diorite/granite, strong (R4). | | |
| 8 | | | | BOULDERS<br>Dark bluish grey, fine grained, diorite/granite, very strong (R5).<br>[FILL] | | |
| 9 | | | | | | |
| 10 | | | | Rock encountered at 9.30 m depth.<br>Refer to rock log. | | |
| 11 | | | | | | |
| 12 | | | | | | |

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PRINT DATE: 11/17/2011

EGP (SOIL) EGP_SOIL.GDL BGC.GDT 11/17/11

PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# DRILL HOLE # BH-BGC10-3

LOCATION : MIDDLE REACH DUBLIN GULCH

CO-ORDINATES (m) 459656E - 7101217N
GROUND ELEVATION (m) : 878
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : n/a

DRILL DESIGNATION : CS-10
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond/PQ
CORE SIZE : PQ
FLUID : Water/Polymer
CASED TO (m): 6

START DATE : 15 May 10
FINISH DATE : 16 May 10
FINAL DEPTH (m) : 50.7
DEPTH TO TOP OF ROCK (m) : 9.3
LOGGED BY : TW/ASW
REVIEWED BY : PQ

| DEPTH (m) | INSTRUMENT DETAILS | SYMBOL | CORE DESCRIPTION |
|---|---|---|---|
| 0 to 9.30 | | | 0 to 9.30 m - See BH-BGC10-3 soil log. |
| 9.3 to 12 | | | BEDROCK<br>Brownish grey, fine grained, phyllitic, foliations and sets at 65-70 degrees to core axis, moderately strong (R3), W2. Discontinuities are very closely to closely spaced, mainly smooth, planar to slightly undulating. [SLIGHTLY WEATHERED METASEDIMENTARY ROCK]<br>10.2 m - 0.3 m of sand and gravel.<br>10.5 m - Oxidized phyllite. Moderate sericite and silicification.<br>11.7 m - Sericitized, silicified phyllite, moderate quartz |

CORE RECOVERY %
RQD % (20 40 60 80)
WEATHERING GRADE (1 2 3 4 5)
POINT LOAD INDEX $Is_{50}$ ◆ 0.1 0.6 1.5 3.0 7.0 (MPa)
STRENGTH GRADE (R) R1 R2 R3 R4 R5
FRACTURE FREQUENCY (FF/M) (20 40 60 80)
Average Joint Condition (Jc) (5 10 15 20)
RMR (20 40 60 80)

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PROJECT: Eagle Gold Project - Infrastructure
PROJECT NO.: 0792-004

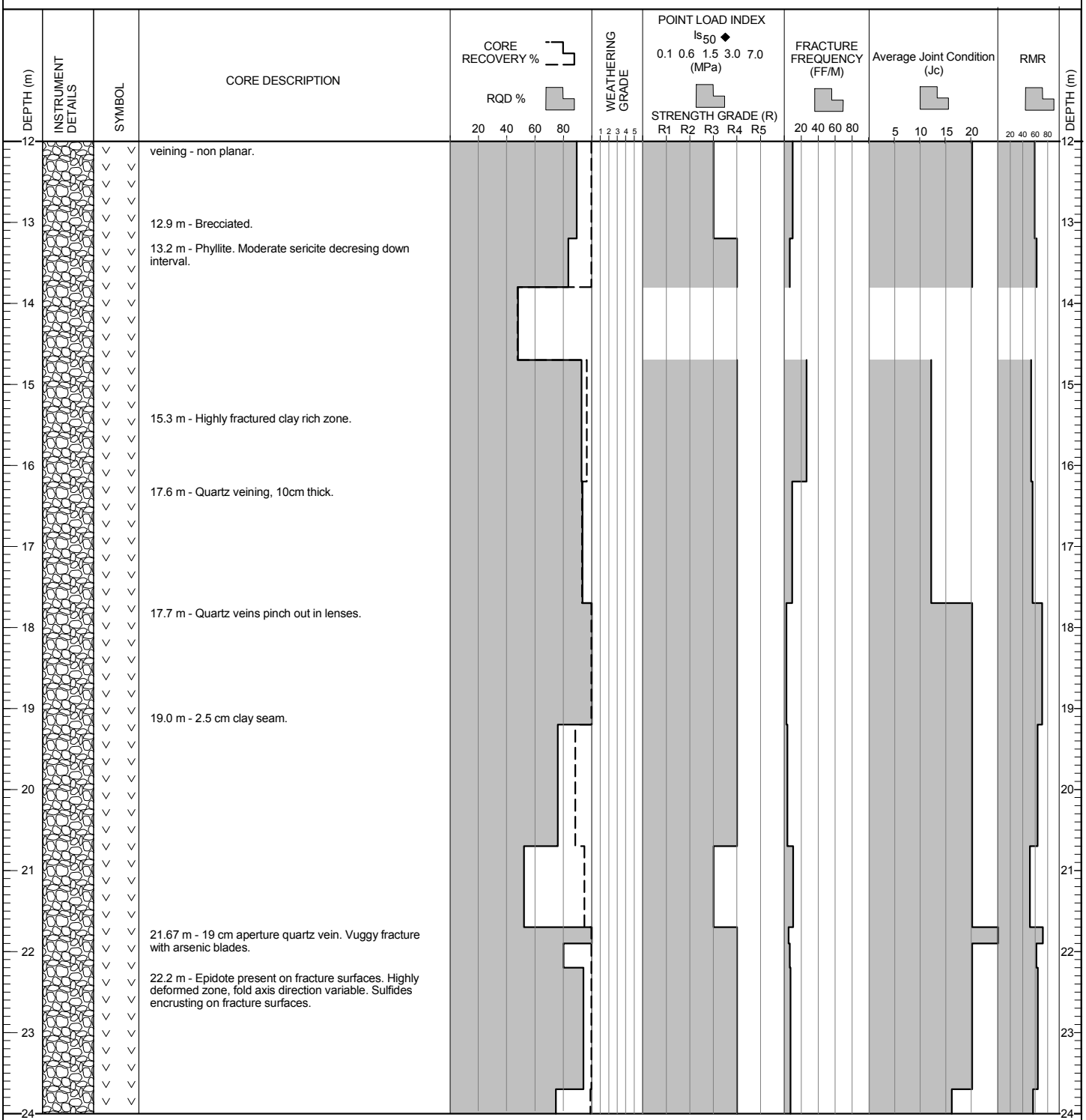
# DRILL HOLE # BH-BGC10-3

LOCATION : MIDDLE REACH DUBLIN GULCH

CO-ORDINATES (m) 459656E - 7101217N
GROUND ELEVATION (m) : 878
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : n/a

DRILL DESIGNATION : CS-10
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond/PQ
CORE SIZE : PQ
FLUID : Water/Polymer
CASED TO (m): 6

START DATE : 15 May 10
FINISH DATE : 16 May 10
FINAL DEPTH (m) : 50.7
DEPTH TO TOP OF ROCK (m) : 9.3
LOGGED BY : TW/ASW
REVIEWED BY : PQ

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PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

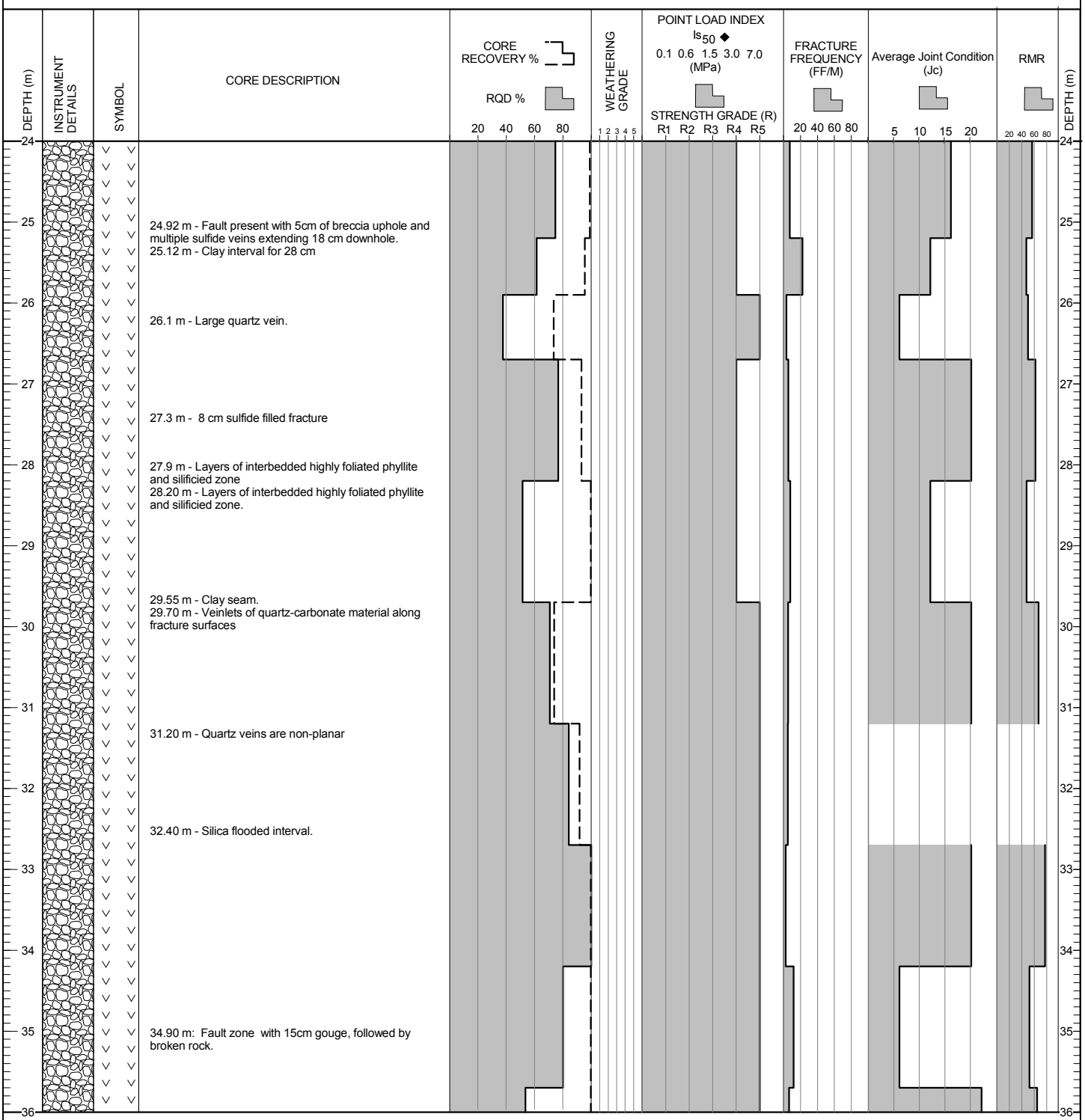
# DRILL HOLE # BH-BGC10-3

LOCATION : MIDDLE REACH DUBLIN GULCH

CO-ORDINATES (m) 459656E - 7101217N
GROUND ELEVATION (m) : 878
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : n/a

DRILL DESIGNATION : CS-10
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond/PQ
CORE SIZE : PQ
FLUID : Water/Polymer
CASED TO (m): 6

START DATE : 15 May 10
FINISH DATE : 16 May 10
FINAL DEPTH (m) : 50.7
DEPTH TO TOP OF ROCK (m) : 9.3
LOGGED BY : TW/ASW
REVIEWED BY : PQ

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PROJECT NO.: 0792-004

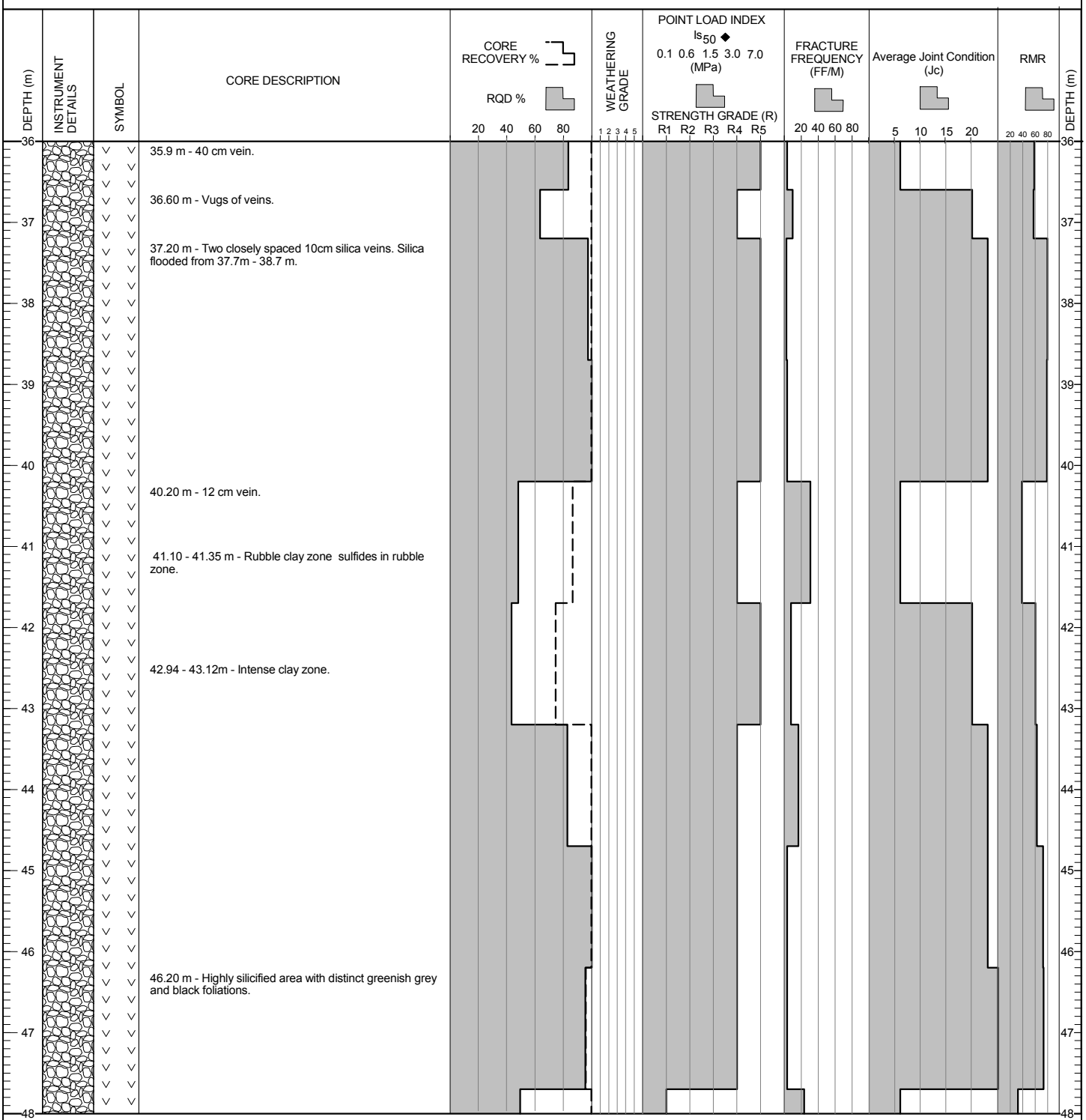
# DRILL HOLE # BH-BGC10-3

LOCATION : MIDDLE REACH DUBLIN GULCH

CO-ORDINATES (m) 459656E - 7101217N
GROUND ELEVATION (m) : 878
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : n/a

DRILL DESIGNATION : CS-10
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond/PQ
CORE SIZE : PQ
FLUID : Water/Polymer
CASED TO (m): 6

START DATE : 15 May 10
FINISH DATE : 16 May 10
FINAL DEPTH (m) : 50.7
DEPTH TO TOP OF ROCK (m) : 9.3
LOGGED BY : TW/ASW
REVIEWED BY : PQ

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PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# DRILL HOLE # BH-BGC10-3

LOCATION : MIDDLE REACH DUBLIN GULCH



CO-ORDINATES (m) 459656E - 7101217N
GROUND ELEVATION (m) : 878
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : n/a

DRILL DESIGNATION : CS-10
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond/PQ
CORE SIZE : PQ
FLUID : Water/Polymer
CASED TO (m): 6

START DATE : 15 May 10
FINISH DATE : 16 May 10
FINAL DEPTH (m) : 50.7
DEPTH TO TOP OF ROCK (m) : 9.3
LOGGED BY : TW/ASW
REVIEWED BY : PQ

| DEPTH (m) | INSTRUMENT DETAILS | SYMBOL | CORE DESCRIPTION |
|---|---|---|---|
| 48 | | | 47.90 m - Highly fractured and altered phyllite with intermittent clay seams. |
| 49 | | | |
| 50 | | | |
| 51 | | | End of borehole at 50.7m.<br>Notes:<br>1. Water level @ 6.15m (1 hour after drilling was completed). |
| 52 | | | |
| 53 | | | |
| 54 | | | |
| 55 | | | |
| 56 | | | |
| 57 | | | |
| 58 | | | |
| 59 | | | |
| 60 | | | |

CORE RECOVERY %
RQD % 20 40 60 80

WEATHERING GRADE 1 2 3 4 5

POINT LOAD INDEX $Is_{50}$ ◆ 0.1 0.6 1.5 3.0 7.0 (MPa)
STRENGTH GRADE (R) R1 R2 R3 R4 R5

FRACTURE FREQUENCY (FF/M) 20 40 60 80

Average Joint Condition (Jc) 5 10 15 20

RMR 20 40 60 80

DEPTH (m)

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EGP (ROCK) EGP_ROCK.GDL BGC.GDT 11/17/11

PROJECT: Eagle Gold Project - Infrastructure
PROJECT NO.: 0792-004

# DRILL HOLE # BH-BGC10-4

LOCATION : DUBLIN GULCH VALLEY BOTTOM

CO-ORDINATES (m): 459465E - 7101139N
GROUND ELEVATION (m) : 858
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : N/A

DRILL DESIGNATION : CS-10
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond
CORE : PQ
FLUID : Water/Polymer
CASED TO (m) : 4.50

START DATE : 14 May 10
FINISH DATE : 15 May 10
FINAL DEPTH (m) : 31.0
DEPTH TO TOP OF ROCK (m) : 8.7
LOGGED BY : TW/ASW
REVIEWED BY : PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | SYMBOL | LITHOLOGIC DESCRIPTION | INSTRUMENT DETAILS | SPT BLOWS PER 150mm |
|---|---|---|---|---|---|---|
| 0 | | | | No recovery. Refer to test pit # TP-BGC10-24 for soil description. | | |
| 3 | | | | BOULDERS<br>Dark bluish grey with black specks, medium grained, porphyritic, no alteration, yellowish discoloration in discontinuities, strong (R4). Matrix: sand, medium to coarse, some gravel, fine to coarse, well graded, max. particle size= 40mm, equant, angular to subangular, pinkish white to bluish grey.<br>[FILL] | | |
| 5 | | | | 5.5 m - Matrix: max. particle size= 30mm. | | |
| 6 | | | | 6.2m - Matrix: some sand, coarse to medium, some gravel, well graded, max. particle size= 100mm, flat to equant, angular, rusty brown. | | |
| 7 | | | | Poor recovery: washed cuttings show<br>GRAVEL (GW)<br>Well graded, max. particle size= 80mm, equant, angular to subangular, orange brown, rust discoloration.<br>[FILL] | | |
| 9 | | | | GRAVEL (GW)<br>Trace sand, trace silt, well graded, max. particle size= 60mm, flat to elongated, angular, silvery blue grey, sand is mustard brown.<br>[WEATHERED BEDROCK] | | |
| | | | | Rock encountered at 8.70 m depth.<br>Refer to rock log. | | |

Su - kPa: 40, 80, 120, 160
★ % FINES
● SPT (blows/300mm)
RECOVERY: 20, 40, 60, 80
MOISTURE CONTENT & SPT N: $W_P$% — W% — $W_L$%: 20, 40, 60, 80

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CLIENT: Victoria Gold Corporation
PRINT DATE: 11/16/2011

EGP (SOIL) EGP_SOIL.GDL BGC.GDT 11/16/11

PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# DRILL HOLE # BH-BGC10-4

LOCATION : DUBLIN GULCH VALLEY BOTTOM

CO-ORDINATES (m) 459465E - 7101139N
GROUND ELEVATION (m) : 858
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : n/a

DRILL DESIGNATION : CS-10
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond
CORE SIZE : PQ
FLUID : Water/Polymer
CASED TO (m): 4.5

START DATE : 14 May 10
FINISH DATE : 15 May 10
FINAL DEPTH (m) : 31.0
DEPTH TO TOP OF ROCK (m) : 8.7
LOGGED BY : TW/ASW
REVIEWED BY : PQ

| DEPTH (m) | INSTRUMENT DETAILS | SYMBOL | CORE DESCRIPTION |
|---|---|---|---|
| 0 to 8.70 | | | 0 to 8.70 m - See BH-BGC10-4 soil log. |
| 8.7 to 12 | | | BEDROCK<br>Grey, iron stained, fine grained, phyllic, thinly foliated beds, weak to strong (R2-R4), W2-W3. Two main sets of structures (45-60° and 65-77°), discontinuities are parallel, 0.5 mm to 100 mm apart, planar, smooth. [SLIGHTLY TO MODERATELY WEATHERED METASEDIMENTARY ROCK]<br>11.15 m - Heavily clay altered zone.<br>11.5 m - 300 mm of fault gouge: silt/clay.<br>11.8 m - Black phyllite with small zones of quartzite. |

CORE RECOVERY %
RQD % — 20 40 60 80

WEATHERING GRADE — 1 2 3 4 5

POINT LOAD INDEX $Is_{50}$ ◆ 0.1 0.6 1.5 3.0 7.0 (MPa)
STRENGTH GRADE (R) — R1 R2 R3 R4 R5

FRACTURE FREQUENCY (FF/M) — 20 40 60 80

Average Joint Condition (Jc) — 5 10 15 20

RMR — 20 40 60 80

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EGP (ROCK) EGP_ROCK.GDL BGC.GDT 11/16/11

PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

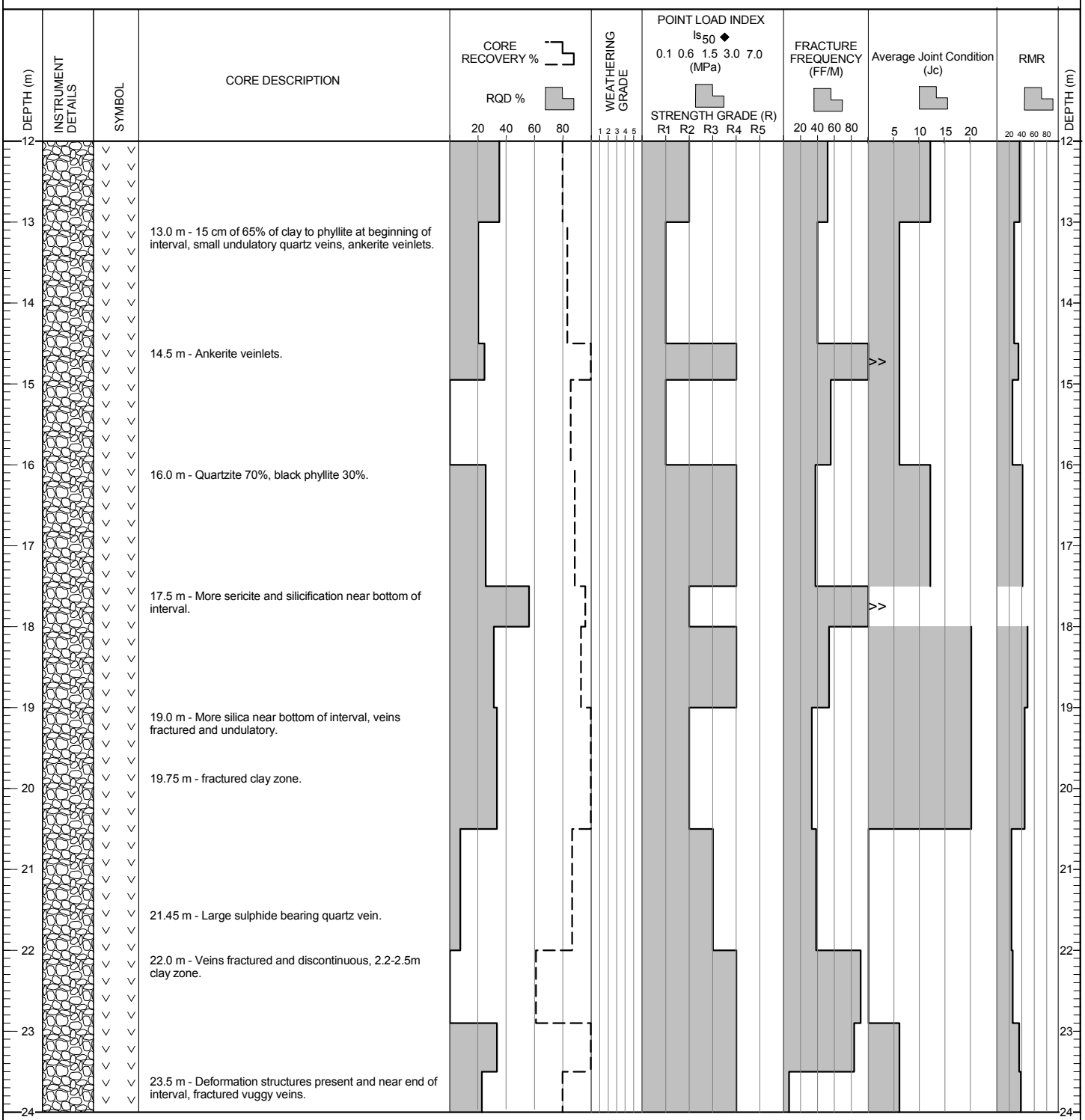
# DRILL HOLE # BH-BGC10-4

LOCATION : DUBLIN GULCH VALLEY BOTTOM

CO-ORDINATES (m) 459465E - 7101139N
GROUND ELEVATION (m) : 858
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : n/a

DRILL DESIGNATION : CS-10
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond
CORE SIZE : PQ
FLUID : Water/Polymer
CASED TO (m): 4.5

START DATE : 14 May 10
FINISH DATE : 15 May 10
FINAL DEPTH (m) : 31.0
DEPTH TO TOP OF ROCK (m) : 8.7
LOGGED BY : TW/ASW
REVIEWED BY : PQ

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PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

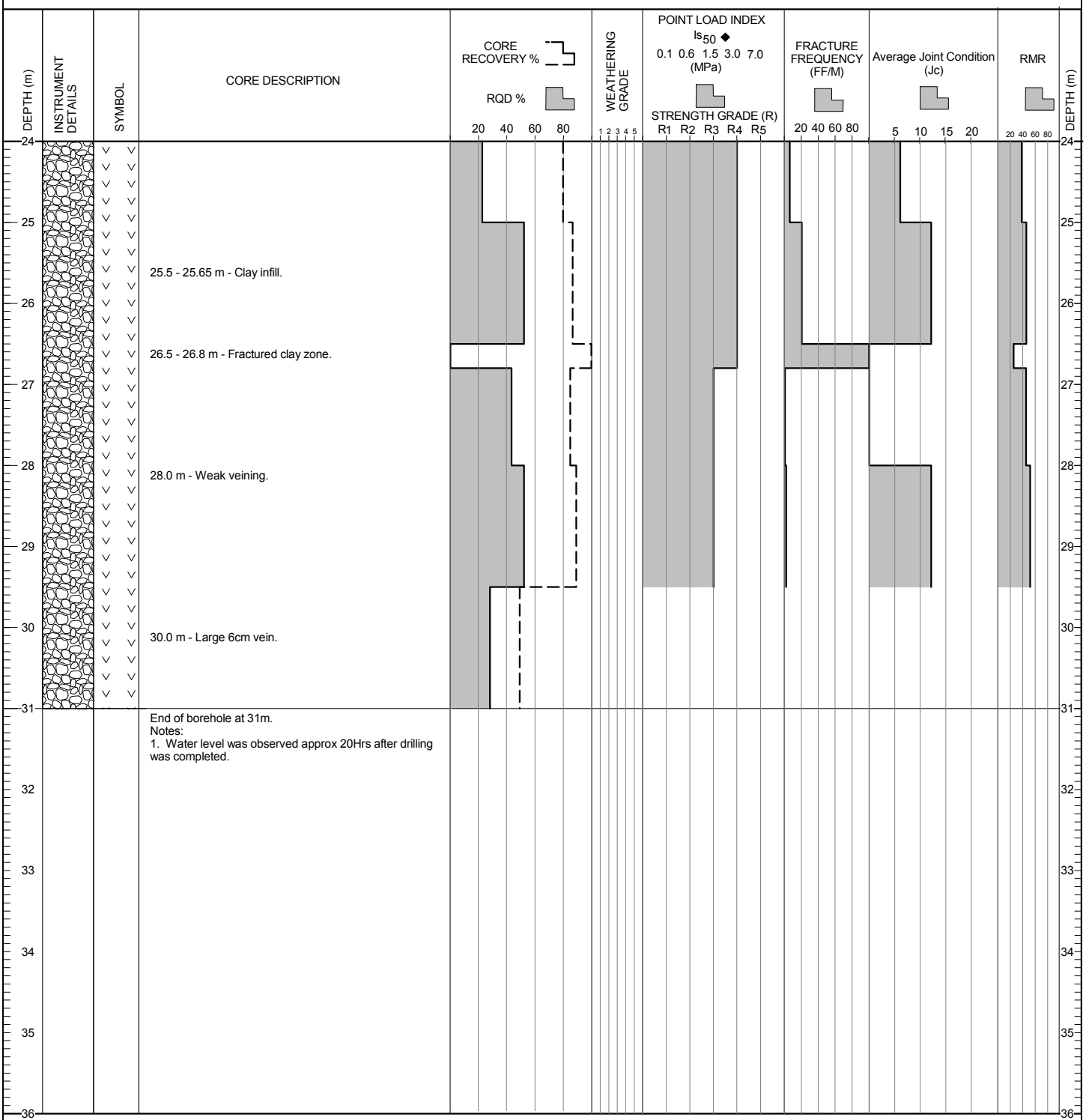
# DRILL HOLE # BH-BGC10-4

LOCATION : DUBLIN GULCH VALLEY BOTTOM

CO-ORDINATES (m) 459465E - 7101139N
GROUND ELEVATION (m) : 858
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : n/a

DRILL DESIGNATION : CS-10
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond
CORE SIZE : PQ
FLUID : Water/Polymer
CASED TO (m): 4.5

START DATE : 14 May 10
FINISH DATE : 15 May 10
FINAL DEPTH (m) : 31.0
DEPTH TO TOP OF ROCK (m) : 8.7
LOGGED BY : TW/ASW
REVIEWED BY : PQ

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PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# DRILL HOLE # BH-BGC10-5

LOCATION : MIDDLE REACH DUBLIN GULCH



CO-ORDINATES (m): 459744E - 7101195N
GROUND ELEVATION (m) : 884
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : N/A

DRILL DESIGNATION : CS-10
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond
CORE : PQ
FLUID : Water/Polymer
CASED TO (m) : 4.30

START DATE : 17 May 10
FINISH DATE : 18 May 10
FINAL DEPTH (m) : 21.0
DEPTH TO TOP OF ROCK (m) : 4.3
LOGGED BY : ASW
REVIEWED BY : PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | SYMBOL | LITHOLOGIC DESCRIPTION | INSTRUMENT DETAILS | SPT BLOWS PER 150mm |
|---|---|---|---|---|---|---|
| 0 | | | | COBBLES and SAND<br>Gravelly, trace silt, well graded, max. particle size=180mm, subangular to angular, brown, homogeneous, trace organics (tree roots).<br>[FILL] | | |
| 3 | | | | GRAVEL (GW)<br>Some boulders, trace cobbles, trace sand, coarse, well graded, max.particle size= 270mm, elongated, angular to subangular, homogeneous, mostly metasediment.<br>[FILL] | | |
| 4.26 | | | | Rock encountered at 4.26 m depth.<br>Refer to rock log. | | |

Su - kPa: 40, 80, 120, 160
★ % FINES
● SPT (blows/300mm)
RECOVERY: 20, 40, 60, 80
MOISTURE CONTENT & SPT N
$W_P$% W% $W_L$%
20, 40, 60, 80

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CLIENT: Victoria Gold Corporation

PRINT DATE: 11/17/2011

EGP (SOIL) EGP_SOIL.GDL BGC.GDT 11/17/11

PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

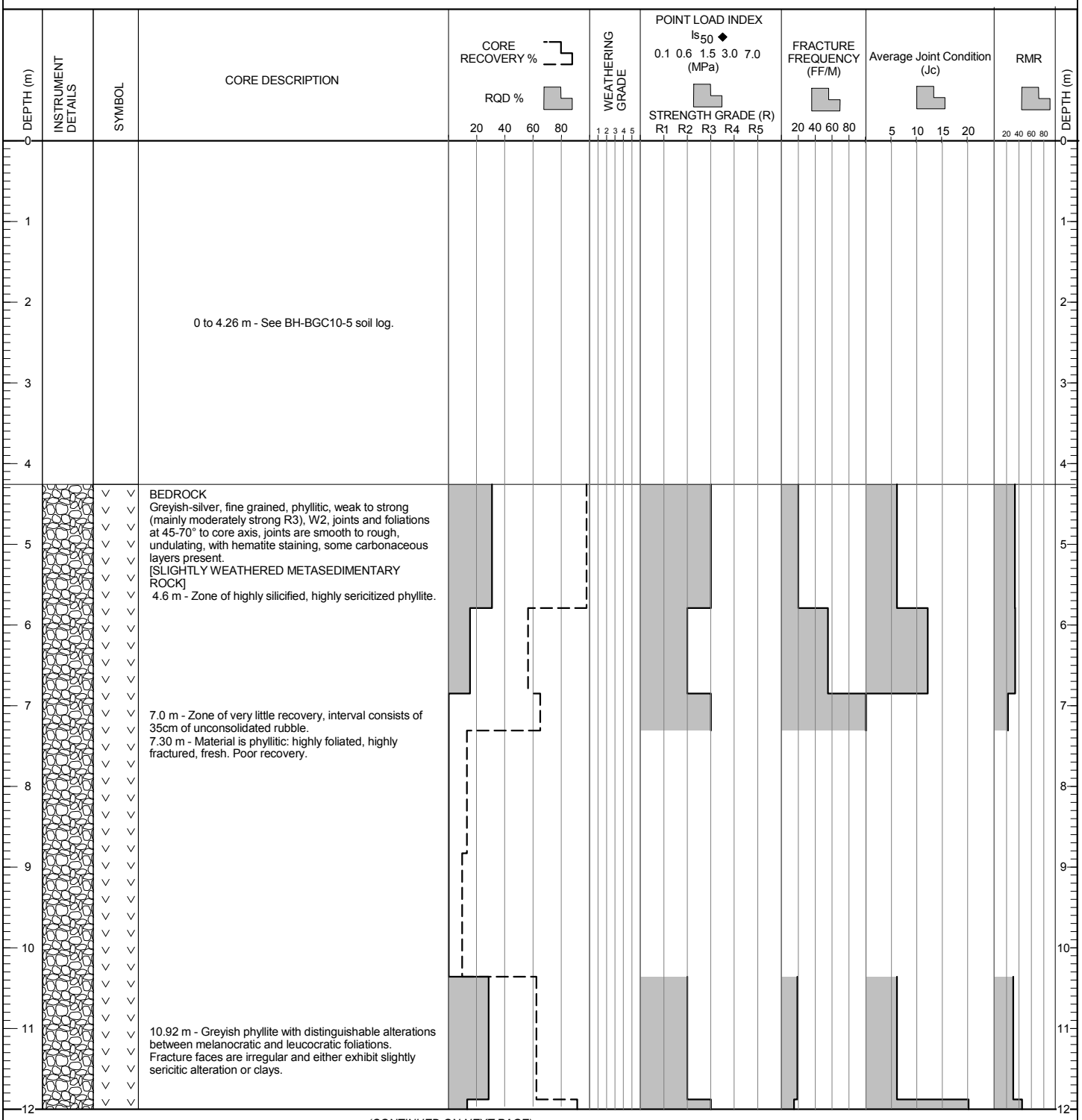
# DRILL HOLE # BH-BGC10-5

LOCATION : MIDDLE REACH DUBLIN GULCH

CO-ORDINATES (m) 459744E - 7101195N
GROUND ELEVATION (m) : 884
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : n/a

DRILL DESIGNATION : CS-10
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond
CORE SIZE : PQ
FLUID : Water/Polymer
CASED TO (m): 4.3

START DATE : 17 May 10
FINISH DATE : 18 May 10
FINAL DEPTH (m) : 21.0
DEPTH TO TOP OF ROCK (m) : 4.3
LOGGED BY : ASW
REVIEWED BY : PQ

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PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# DRILL HOLE # BH-BGC10-5

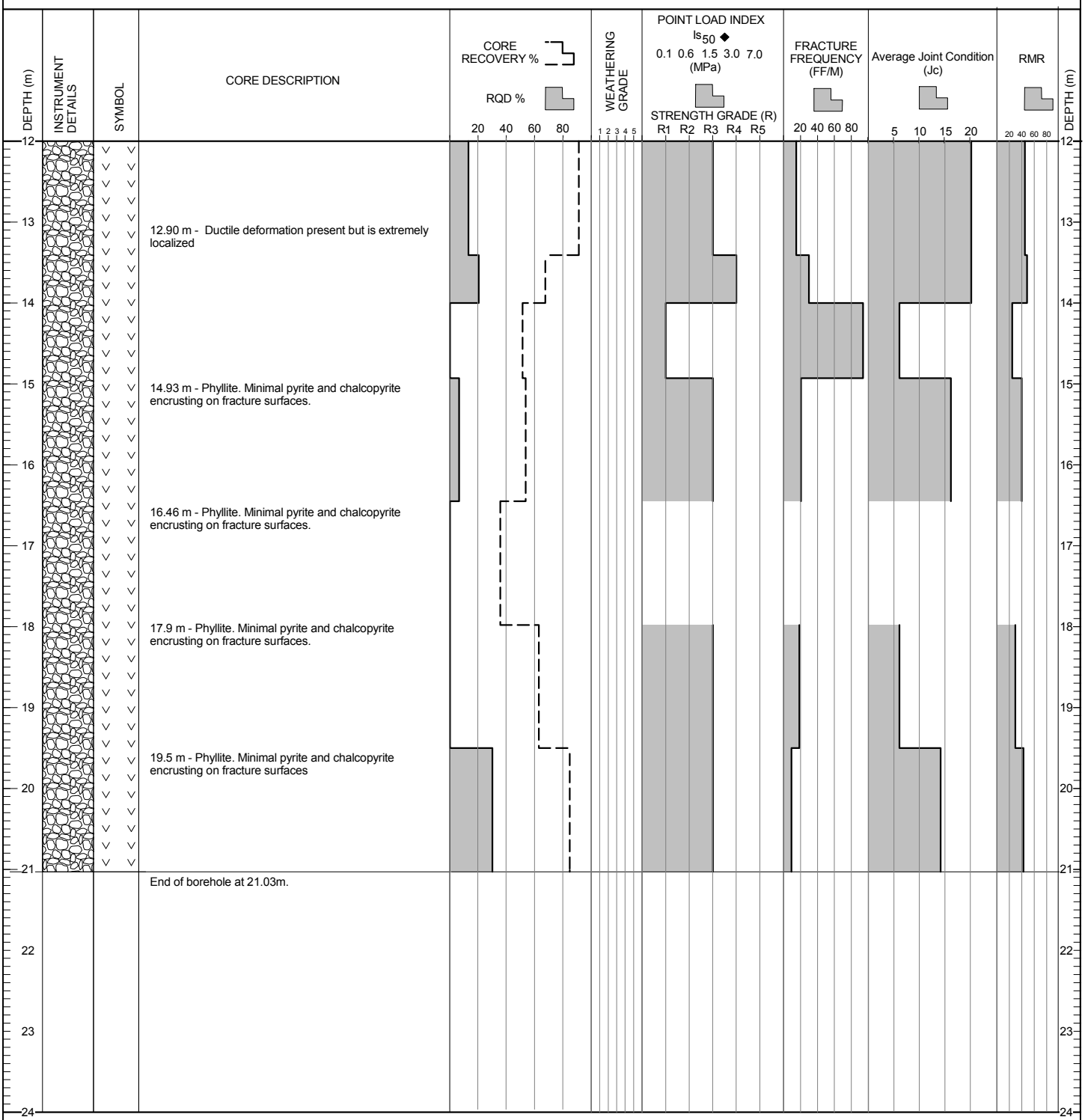
LOCATION : MIDDLE REACH DUBLIN GULCH



CO-ORDINATES (m) 459744E - 7101195N
GROUND ELEVATION (m) : 884
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : n/a

DRILL DESIGNATION : CS-10
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond
CORE SIZE : PQ
FLUID : Water/Polymer
CASED TO (m): 4.3

START DATE : 17 May 10
FINISH DATE : 18 May 10
FINAL DEPTH (m) : 21.0
DEPTH TO TOP OF ROCK (m) : 4.3
LOGGED BY : ASW
REVIEWED BY : PQ

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PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# DRILL HOLE # BH-BGC10-6

LOCATION : EAGLE PUP



CO-ORDINATES (m): 459479E - 7100991N
GROUND ELEVATION (m) : 876
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : N/A

DRILL DESIGNATION : CS-1000
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond
CORE : HQ3
FLUID : Water/Polymer
CASED TO (m) : 0.00

START DATE : 15 Aug 10
FINISH DATE : 15 Aug 10
FINAL DEPTH (m) : 28.9
DEPTH TO TOP OF ROCK (m) : 18.4
LOGGED BY : AKU
REVIEWED BY : PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | SYMBOL | LITHOLOGIC DESCRIPTION | INSTRUMENT DETAILS | SPT BLOWS PER 150mm |
|---|---|---|---|---|---|---|
| 0 | | | | SAND (SM) and SILT<br>Some cobbles, some gravel, trace clay, low plasticity, compact to dense, brown, interbedded, Clasts are sub-rounded to rounded. Trace wood pieces.<br>[GLACIAL TILL?]<br>Low Recovery: matrix mainly washed away. Refer to Test Pit # TP-BGC10-18. | | |
| 1 | | | | 1.4 m - Clasts are sub-rounded to sub-angular. | | |
| 2 | | | | | | |
| 3 | | | | 3.4 m - Trace boulders (granodiorite), very strong (R5). | | |
| 4 | | | | | | |
| 5 | | | | 5.5 m - Fractured granodiorite boulder. | | |
| 6 | | | | | | |
| 7 | | | | SAND and GRAVEL (SP/GP)<br>Some cobbles, trace boulders<br>Clasts are granodiorite and metasedimentary rock.<br>[GLACIAL TILL?] | | |
| 8 | | | | 7.9m - Some boulders, coarse-grained, granodiorite, very strong (R5). | | |
| 9 | | | | | | |
| 10 | | | | 9.4m - Clasts are strong (R4). | | |
| 11 | | | | | | |
| 12 | | | | | | |

Su - kPa: 40, 80, 120, 160

★ % FINES

● SPT (blows/300mm)

RECOVERY: 20, 40, 60, 80

MOISTURE CONTENT & SPT N: $W_P$% — W% — $W_L$%; 20, 40, 60, 80

*(Continued on next page)*

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PRINT DATE: 11/17/2011

PROJECT: Eagle Gold Project - Infrastructure
PROJECT NO.: 0792-004

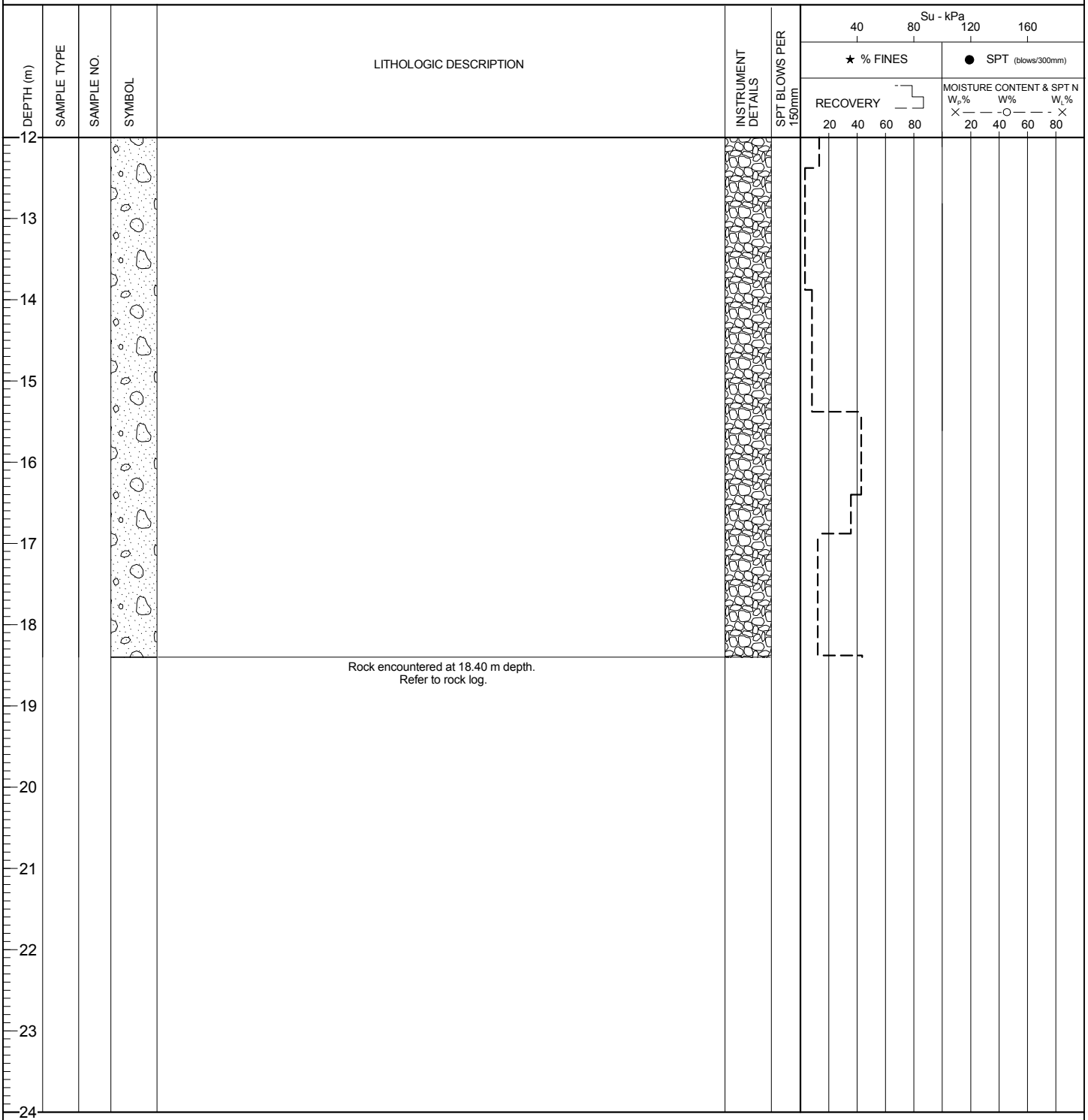
# DRILL HOLE # BH-BGC10-6

LOCATION : EAGLE PUP

CO-ORDINATES (m): 459479E - 7100991N
GROUND ELEVATION (m) : 876
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : N/A

DRILL DESIGNATION : CS-1000
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond
CORE : HQ3
FLUID : Water/Polymer
CASED TO (m) : 0.00

START DATE : 15 Aug 10
FINISH DATE : 15 Aug 10
FINAL DEPTH (m) : 28.9
DEPTH TO TOP OF ROCK (m) : 18.4
LOGGED BY : AKU
REVIEWED BY : PQ

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CLIENT: Victoria Gold Corporation

PRINT DATE: 11/17/2011

EGP (SOIL) EGP_SOIL.GDL BGC.GDT 11/17/11

PROJECT: Eagle Gold Project - Infrastructure
PROJECT NO.: 0792-004

# DRILL HOLE # BH-BGC10-6

LOCATION : EAGLE PUP

CO-ORDINATES (m) 459479E - 7100991N
GROUND ELEVATION (m) : 876
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : n/a

DRILL DESIGNATION : CS-1000
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond
CORE SIZE : HQ3
FLUID : Water/Polymer
CASED TO (m): 0

START DATE : 15 Aug 10
FINISH DATE : 15 Aug 10
FINAL DEPTH (m) : 28.9
DEPTH TO TOP OF ROCK (m) : 18.4
LOGGED BY : AKU
REVIEWED BY : PQ

| DEPTH (m) | INSTRUMENT DETAILS | SYMBOL | CORE DESCRIPTION |
|---|---|---|---|
| 12 | | | 0 to 18.40 m - See BH-BGC10-6 soil log. |
| 18 | | | |
| 19 | | | BEDROCK<br>Grey, iron stained, fine grained, highly foliated, phyllitic, moderately strong (R3), W2, discontinuities organized in two sets (20-30° and 65-80°), closely spaced, planar, smooth to rough. Joint walls are generally stained with hematite, calcite or chlorite.<br>[SLIGHTLY WEATHERED METASEDIMENTARY ROCK] |
| 24 | | | |

CORE RECOVERY %
RQD % — 20 40 60 80

WEATHERING GRADE — 1 2 3 4 5

POINT LOAD INDEX $Is_{50}$ ◆
0.1 0.6 1.5 3.0 7.0 (MPa)
STRENGTH GRADE (R)
R1 R2 R3 R4 R5

FRACTURE FREQUENCY (FF/M) — 20 40 60 80

Average Joint Condition (Jc) — 5 10 15 20

RMR — 20 40 60 80

*(CONTINUED ON NEXT PAGE)*

PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# DRILL HOLE # BH-BGC10-6

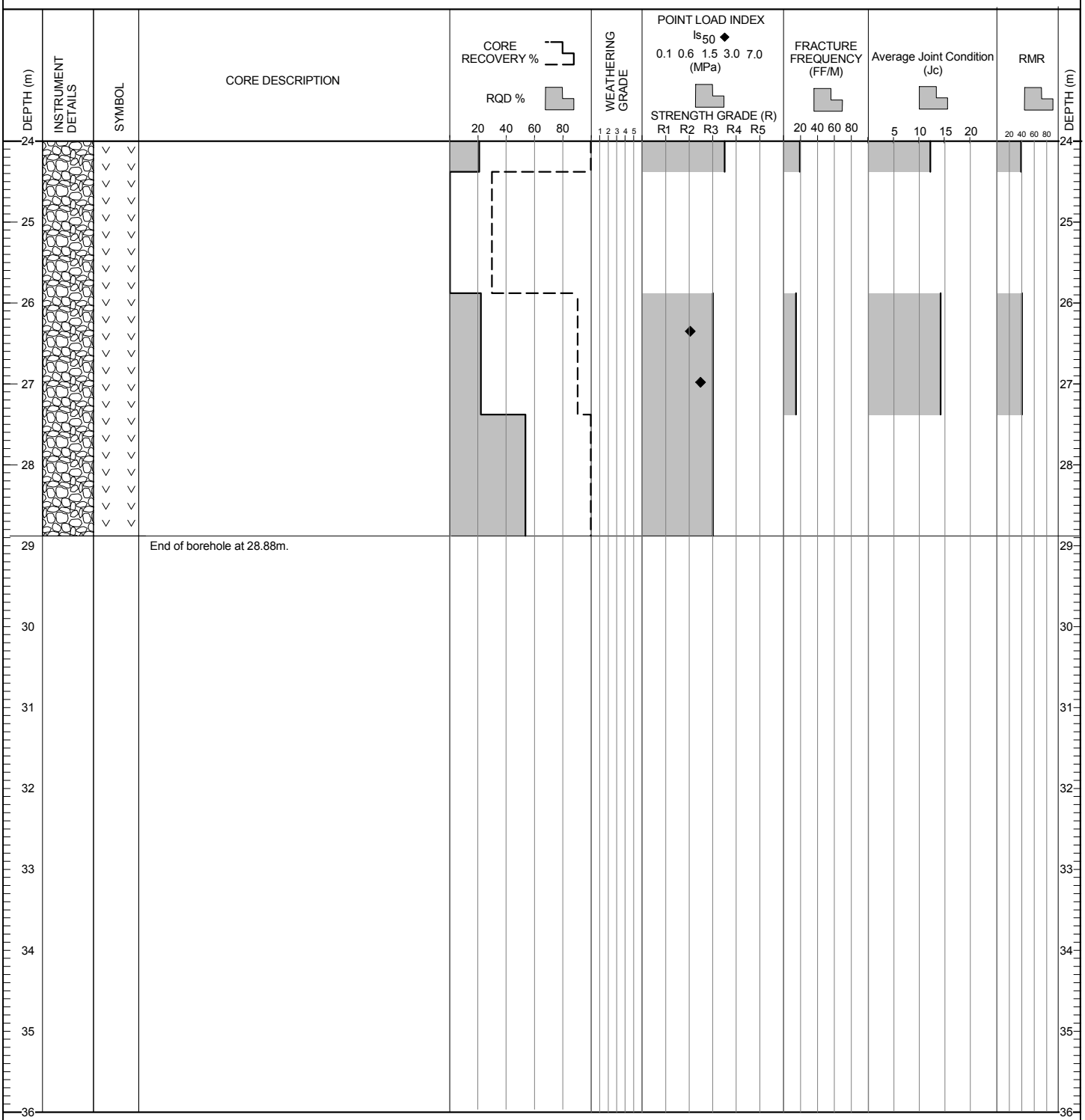
LOCATION : EAGLE PUP



CO-ORDINATES (m) 459479E - 7100991N
GROUND ELEVATION (m) : 876
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : n/a

DRILL DESIGNATION : CS-1000
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond
CORE SIZE : HQ3
FLUID : Water/Polymer
CASED TO (m): 0

START DATE : 15 Aug 10
FINISH DATE : 15 Aug 10
FINAL DEPTH (m) : 28.9
DEPTH TO TOP OF ROCK (m) : 18.4
LOGGED BY : AKU
REVIEWED BY : PQ

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PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# DRILL HOLE # BH-BGC10-7

LOCATION : STUTTLE GULCH



CO-ORDINATES (m): 459547E - 7100585N
GROUND ELEVATION (m) : 948
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : N/A

DRILL DESIGNATION : CS-1000
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond
CORE : HQ3
FLUID : Water/Polymer
CASED TO (m) : 10.00

START DATE : 16 Aug 10
FINISH DATE : 17 Aug 10
FINAL DEPTH (m) : 30.0
DEPTH TO TOP OF ROCK (m) : 18.0
LOGGED BY : AKU/LGT
REVIEWED BY : PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | SYMBOL | LITHOLOGIC DESCRIPTION | INSTRUMENT DETAILS | SPT BLOWS PER 150mm |
|---|---|---|---|---|---|---|
| 0 | | | | SAND (SM)<br>Silty, trace fine gravel, sub-rounded. Low Recovery, fines washed. Description inferred from nearby TP-BGC10-11. | | |
| 1 | | | | 1.28 m - Recovered gravel, sub-angular to sub-rounded, and coarse sand. | | |
| 2 | | | | | | |
| 3 | | | | GRAVEL (GW)<br>Sandy, sub-rounded, clasts are strong (R4). | | |
| 4 | | | | Low Recovery<br>Fines are washed, trace subrounded gravel. Inferred from cuttings: Sand, trace gravel, trace cobbles. | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | 10.4 m - Trace cobble, quartzite, strong (R4). | | |
| 11 | | | | | | |
| 12 | | | | | | |

Su - kPa: 40, 80, 120, 160

★ % FINES

● SPT (blows/300mm)

RECOVERY: 20, 40, 60, 80

MOISTURE CONTENT & SPT N: $W_P$% — W% — $W_L$%; 20, 40, 60, 80

*(Continued on next page)*

BGC ENGINEERING INC.
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CLIENT: Victoria Gold Corporation

PRINT DATE: 11/16/2011

PROJECT: Eagle Gold Project - Infrastructure
PROJECT NO.: 0792-004

# DRILL HOLE # BH-BGC10-7

LOCATION : STUTTLE GULCH

CO-ORDINATES (m): 459547E - 7100585N
GROUND ELEVATION (m) : 948
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : N/A

DRILL DESIGNATION : CS-1000
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond
CORE : HQ3
FLUID : Water/Polymer
CASED TO (m) : 10.00

START DATE : 16 Aug 10
FINISH DATE : 17 Aug 10
FINAL DEPTH (m) : 30.0
DEPTH TO TOP OF ROCK (m) : 18.0
LOGGED BY : AKU/LGT
REVIEWED BY : PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | SYMBOL | LITHOLOGIC DESCRIPTION | INSTRUMENT DETAILS | SPT BLOWS PER 150mm |
|---|---|---|---|---|---|---|
| 12 | | | | 11.9 m - Trace gravel, trace coarse sand. | | |
| 13 | | | | 13.4 m - Trace gravel, trace cobbles. | | |
| 14 | | | | | | |
| 15 | | | | 15.0 m - Trace subrounded cobble, strong (R4). | | |
| 16 | | | | | | |
| 17 | | | | 16.5 m - Trace gravels, trace cobbles, trace clay. Recovered silt, some sand, trace clay, brown, non to low plastic. | | |
| 18 | | | | Rock encountered at 18.00 m depth. Refer to rock log. | | |
| 19 | | | | | | |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |
| 23 | | | | | | |
| 24 | | | | | | |

Su - kPa
40 80 120 160
★ % FINES
● SPT (blows/300mm)
RECOVERY
20 40 60 80
MOISTURE CONTENT & SPT N
$W_P$% W% $W_L$%
20 40 60 80

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PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

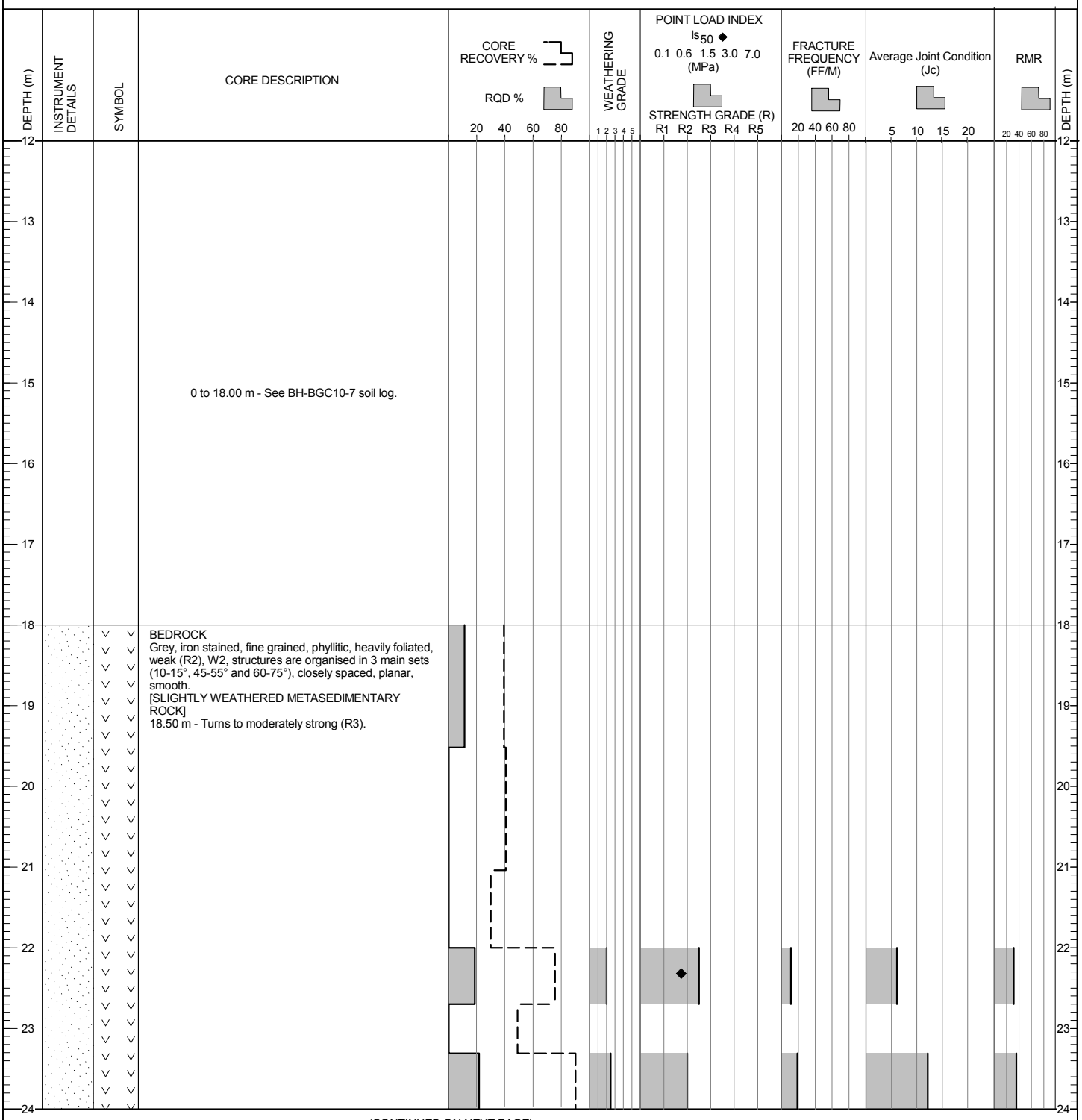
# DRILL HOLE # BH-BGC10-7

LOCATION : STUTTLE GULCH

CO-ORDINATES (m) 459547E - 7100585N
GROUND ELEVATION (m) : 948
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : n/a

DRILL DESIGNATION : CS-1000
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond
CORE SIZE : HQ3
FLUID : Water/Polymer
CASED TO (m): 10

START DATE : 16 Aug 10
FINISH DATE : 17 Aug 10
FINAL DEPTH (m) : 30.0
DEPTH TO TOP OF ROCK (m) : 18.0
LOGGED BY : AKU/LGT
REVIEWED BY : PQ

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CLIENT: Victoria Gold Corporation

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PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# DRILL HOLE # BH-BGC10-7

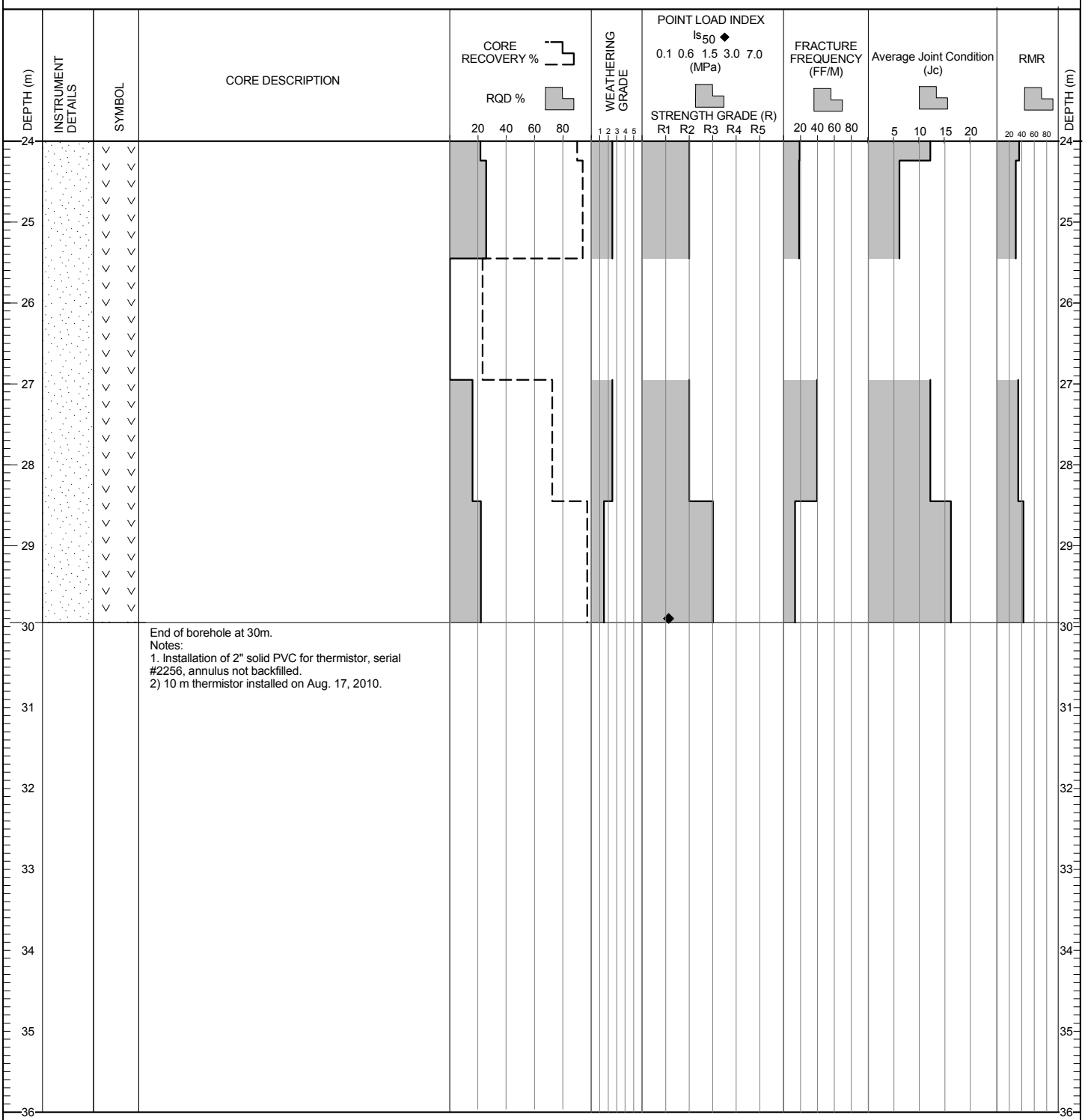
LOCATION : STUTTLE GULCH



CO-ORDINATES (m) 459547E - 7100585N
GROUND ELEVATION (m) : 948
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : n/a

DRILL DESIGNATION : CS-1000
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond
CORE SIZE : HQ3
FLUID : Water/Polymer
CASED TO (m): 10

START DATE : 16 Aug 10
FINISH DATE : 17 Aug 10
FINAL DEPTH (m) : 30.0
DEPTH TO TOP OF ROCK (m) : 18.0
LOGGED BY : AKU/LGT
REVIEWED BY : PQ




End of borehole at 30m.
Notes:
1. Installation of 2" solid PVC for thermistor, serial #2256, annulus not backfilled.
2) 10 m thermistor installed on Aug. 17, 2010.

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PRINT DATE: 11/16/2011

PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# DRILL HOLE # BH-BGC10-8

LOCATION : STUTTLE GULCH



CO-ORDINATES (m): 459566E - 7099879N
GROUND ELEVATION (m) : 1036
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : N/A

DRILL DESIGNATION : CS-10
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond
CORE : HQ3
FLUID : Water/Polymer
CASED TO (m) : 4.26

START DATE : 21 May 10
FINISH DATE : 22 May 10
FINAL DEPTH (m) : 26.2
DEPTH TO TOP OF ROCK (m) : 3.4
LOGGED BY : LGT/ASW
REVIEWED BY : PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | SYMBOL | LITHOLOGIC DESCRIPTION | INSTRUMENT DETAILS | SPT BLOWS PER 150mm |
|---|---|---|---|---|---|---|
| 0 | | | | COBBLES and GRAVEL (GP)<br>Coarse, max. particle size= 100mm, 60%>75mm, poorly graded, elongated to equant, angular to subangular, bluish grey to brownish grey, quartzite, highly weathered, moderately strong to strong (R3 to R4). Matrix was washed through drilling process.<br>[HIGHLY WEATHERED METASEDIMENTARY ROCK]<br>0.5 m - Phyllite, muse and biotite. 0.1 -1.0cm width Qtz/plug leurosome. 0.1-1.0cm width biotite melarosome. Low recovery.<br><br>2.74 m - Quartz layer, 1cm width, separate lenses within bt rich phyllite matrix. Hematite staining on fracture surfaces. | | |
| 3.41 | | | | Rock encountered at 3.41 m depth.<br>Refer to rock log. | | |

Su - kPa: 40, 80, 120, 160

★ % FINES

● SPT (blows/300mm)

RECOVERY: 20, 40, 60, 80

MOISTURE CONTENT & SPT N
$W_P$% W% $W_L$%
20, 40, 60, 80

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EGP (SOIL) EGP_SOIL.GDL BGC.GDT 11/16/11

PROJECT: Eagle Gold Project - Infrastructure
PROJECT NO.: 0792-004

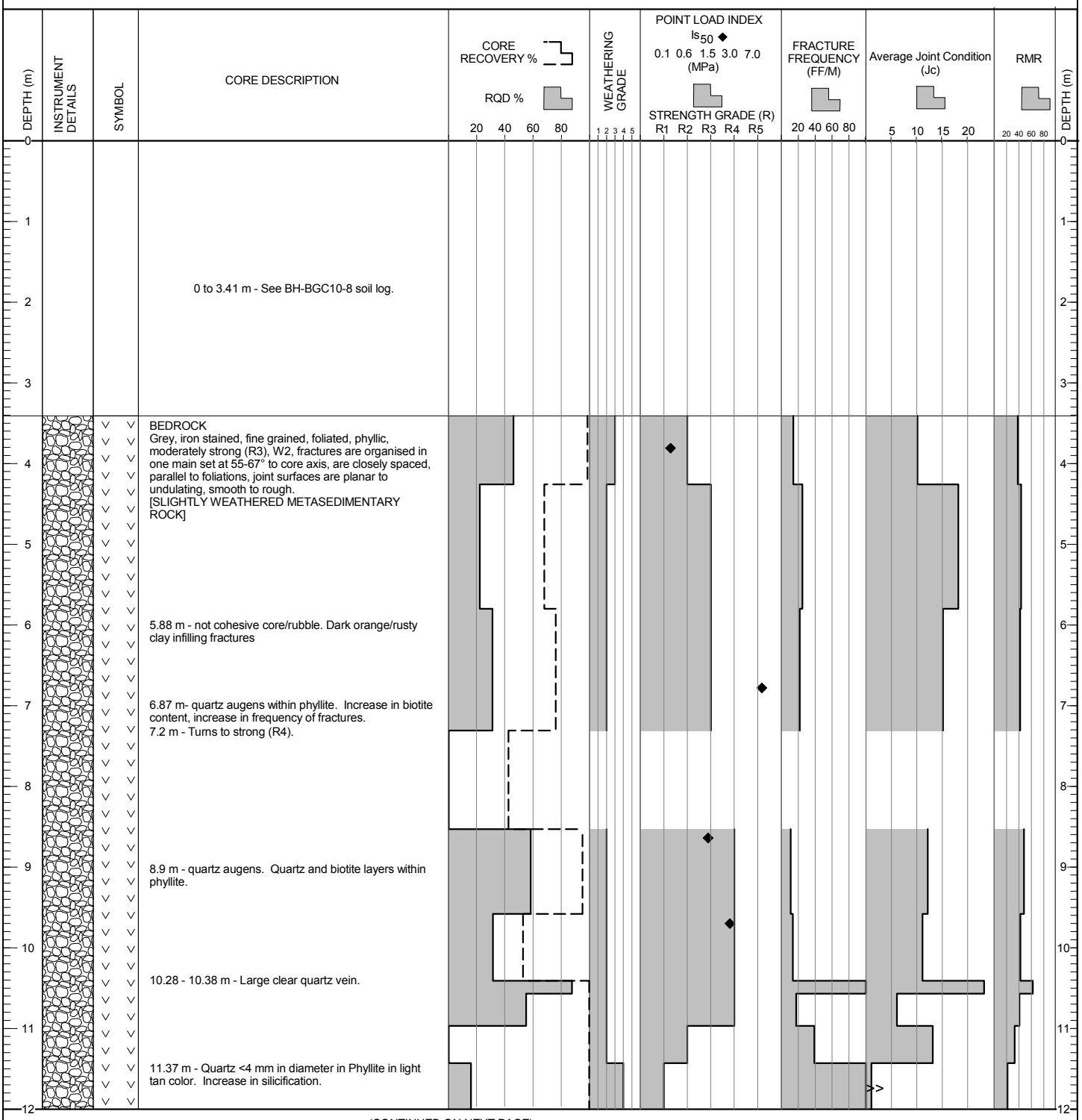
# DRILL HOLE # BH-BGC10-8

LOCATION : STUTTLE GULCH

CO-ORDINATES (m) 459566E - 7099879N
GROUND ELEVATION (m) : 1036
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : n/a

DRILL DESIGNATION : CS-10
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond
CORE SIZE : HQ3
FLUID : Water/Polymer
CASED TO (m): 4.26

START DATE : 21 May 10
FINISH DATE : 22 May 10
FINAL DEPTH (m) : 26.2
DEPTH TO TOP OF ROCK (m) : 3.4
LOGGED BY : LGT/ASW
REVIEWED BY : PQ

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BGC ENGINEERING INC.
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EGP (ROCK) EGP_ROCK.GDL BGC.GDT 11/16/11

PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# DRILL HOLE # BH-BGC10-8

LOCATION : STUTTLE GULCH



CO-ORDINATES (m) 459566E - 7099879N
GROUND ELEVATION (m) : 1036
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : n/a

DRILL DESIGNATION : CS-10
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond
CORE SIZE : HQ3
FLUID : Water/Polymer
CASED TO (m): 4.26

START DATE : 21 May 10
FINISH DATE : 22 May 10
FINAL DEPTH (m) : 26.2
DEPTH TO TOP OF ROCK (m) : 3.4
LOGGED BY : LGT/ASW
REVIEWED BY : PQ

DEPTH (m) | INSTRUMENT DETAILS | SYMBOL | CORE DESCRIPTION | CORE RECOVERY % / RQD % (20 40 60 80) | WEATHERING GRADE (1 2 3 4 5) | POINT LOAD INDEX $Is_{50}$ ◆ 0.1 0.6 1.5 3.0 7.0 (MPa) / STRENGTH GRADE (R) R1 R2 R3 R4 R5 | FRACTURE FREQUENCY (FF/M) (20 40 60 80) | Average Joint Condition (Jc) (5 10 15 20) | RMR (20 40 60 80) | DEPTH (m)

12.49 m - Repeated layering of quartz and biotite layers within Phyllite.

14.17 m - Hornfels, increase in biotite, hornblende and quartz content. Large quartz vein, fractures within veins/chlorite.

15.54 m - Phyllite increases biotite.

17.06 m - Diorite/Aplite dyke. 15cm wide phyllite breccia clast. Biotites are aligned.

18.4 m - Small folds.

18.59 m - Phyllite, more green/grey color. Increase in chlorite vein at end of interval.

20.11 m - Silicification zone 20% biotite 80% quartz. Calcite and Chlorite veins.

21.64 m - Silicification Hornfels. Chlorite veinlets and chlorite alteration. 1cm along fracture

23.16 m - quartz vein. Hornfels/Silica veinlets assosiated with chlorite.

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PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# DRILL HOLE # BH-BGC10-8

LOCATION : STUTTLE GULCH



CO-ORDINATES (m) 459566E - 7099879N
GROUND ELEVATION (m) : 1036
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : n/a

DRILL DESIGNATION : CS-10
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond
CORE SIZE : HQ3
FLUID : Water/Polymer
CASED TO (m): 4.26

START DATE : 21 May 10
FINISH DATE : 22 May 10
FINAL DEPTH (m) : 26.2
DEPTH TO TOP OF ROCK (m) : 3.4
LOGGED BY : LGT/ASW
REVIEWED BY : PQ

| DEPTH (m) | INSTRUMENT DETAILS | SYMBOL | CORE DESCRIPTION |
|---|---|---|---|
| 24 | | | 23.86 m - Quartz vein cross-cut by Calcite + Chlorite vein. |
| 25 | | | 24.68 m - Increase in amount of quartz veins in Hornfel |
| 26 | | | 25.37 m - Hornfels. |
| | | | End of borehole at 26.21m. |

CORE RECOVERY %
RQD % 20 40 60 80

WEATHERING GRADE 1 2 3 4 5

POINT LOAD INDEX $Is_{50}$ ◆ 0.1 0.6 1.5 3.0 7.0 (MPa)
STRENGTH GRADE (R) R1 R2 R3 R4 R5

FRACTURE FREQUENCY (FF/M) 20 40 60 80

Average Joint Condition (Jc) 5 10 15 20

RMR 20 40 60 80

DEPTH (m)

EGP (ROCK) EGP_ROCK.GDL BGC.GDT 11/16/11

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CLIENT: Victoria Gold Corporation

PRINT DATE: 11/16/2011

PROJECT: Eagle Gold Project - Infrastructure
PROJECT NO.: 0792-004

# DRILL HOLE # BH-BGC10-9

LOCATION : EAGLE PUP



CO-ORDINATES (m): 460191E - 7100825N
GROUND ELEVATION (m) : 987
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : N/A

DRILL DESIGNATION : CS-1000
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond
CORE : HQ3
FLUID : Water/Polymer
CASED TO (m) : 0.00

START DATE : 19 Aug 10
FINISH DATE : 20 Aug 10
FINAL DEPTH (m) : 28.3
DEPTH TO TOP OF ROCK (m) : 13.4
LOGGED BY : MM/AKU
REVIEWED BY : PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | SYMBOL | LITHOLOGIC DESCRIPTION | INSTRUMENT DETAILS | SPT BLOWS PER 150mm |
|---|---|---|---|---|---|---|
| 0 | | | | Inferred from cutslope:<br>GRAVEL and SAND<br>Some silt to silty, trace cobbles, maximum particle size 200 mm, < 10% > 75 mm, clasts are angular, mainly elongated, (R3-R4) metasedimentary, brown, moist, non plastic, homogeneous.<br>-cuttings show SAND (SM), silty, trace gravel, light brown. | | |
| 7 | | | | As above. Cuttings show gravel, trace cobbles. Clasts are as above, maximum particle size = 85 mm. | | |
| 10 | | | | GRAVEL (GM)<br>Some silt, some sand, trace clay. Clasts are elongated to flat, subangular to angular, metasedimentary, moderately strong to strong (R3-R4). Matrix is brownish yellow, moderately plastic, moist, homogeneous.<br>[COMPLETELY WEATHERED METASEDIMENTARY ROCK] | | |
| 12 | | | | | | |

Su - kPa: 40, 80, 120, 160
★ % FINES
● SPT (blows/300mm)
RECOVERY: 20, 40, 60, 80
MOISTURE CONTENT & SPT N: $W_P$% — W% — $W_L$%: 20, 40, 60, 80

*(Continued on next page)*

PROJECT: Eagle Gold Project - Infrastructure
PROJECT NO.: 0792-004

# DRILL HOLE # BH-BGC10-9

LOCATION : EAGLE PUP

CO-ORDINATES (m): 460191E - 7100825N
GROUND ELEVATION (m) : 987
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : N/A

DRILL DESIGNATION : CS-1000
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond
CORE : HQ3
FLUID : Water/Polymer
CASED TO (m) : 0.00

START DATE : 19 Aug 10
FINISH DATE : 20 Aug 10
FINAL DEPTH (m) : 28.3
DEPTH TO TOP OF ROCK (m) : 13.4
LOGGED BY : MM/AKU
REVIEWED BY : PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | SYMBOL | LITHOLOGIC DESCRIPTION | INSTRUMENT DETAILS | SPT BLOWS PER 150mm |
|---|---|---|---|---|---|---|
| 12 | | | | | | |
| 13 | | | | Rock encountered at 13.41 m depth.<br>Refer to rock log. | | |
| 14 | | | | | | |
| 15 | | | | | | |
| 16 | | | | | | |
| 17 | | | | | | |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |
| 23 | | | | | | |
| 24 | | | | | | |

Su - kPa: 40, 80, 120, 160
★ % FINES
● SPT (blows/300mm)
RECOVERY: 20, 40, 60, 80
MOISTURE CONTENT & SPT N: $W_P$% — W% — $W_L$%: 20, 40, 60, 80



BGC ENGINEERING INC.
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PROJECT: Eagle Gold Project - Infrastructure
PROJECT NO.: 0792-004

# DRILL HOLE # BH-BGC10-9

LOCATION : EAGLE PUP

CO-ORDINATES (m) 460191E - 7100825N
GROUND ELEVATION (m) : 987
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : n/a

DRILL DESIGNATION : CS-1000
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond
CORE SIZE : HQ3
FLUID : Water/Polymer
CASED TO (m): 0

START DATE : 19 Aug 10
FINISH DATE : 20 Aug 10
FINAL DEPTH (m) : 28.3
DEPTH TO TOP OF ROCK (m) : 13.4
LOGGED BY : MM/AKU
REVIEWED BY : PQ

| DEPTH (m) | INSTRUMENT DETAILS | SYMBOL | CORE DESCRIPTION |
|---|---|---|---|
| 12 | | | |
| 13 | | | 0 to 13.41 m - See BH-BGC10-9 soil log. |
| 14 | | | BEDROCK<br>Grey, iron stained, fine grained, phyllic, weak to moderately strong (R2-R3), W3, foliated, fractures are mainly at 45-60° to core axis, closely spaced, parallel to foliations, planar, smooth.<br>[MODERATELY WEATHERED METASEDIMENTARY ROCK] |
| 15 | | | |
| 16 | | | |
| 17 | | | |
| 18 | | | |
| 19 | | | |
| 20 | | | |
| 21 | | | |
| 22 | | | |
| 23 | | | |
| 24 | | | |

CORE RECOVERY %
RQD % — 20 40 60 80

WEATHERING GRADE — 1 2 3 4 5

POINT LOAD INDEX $Is_{50}$ ◆
0.1 0.6 1.5 3.0 7.0 (MPa)
STRENGTH GRADE (R)
R1 R2 R3 R4 R5

FRACTURE FREQUENCY (FF/M) — 20 40 60 80

Average Joint Condition (Jc) — 5 10 15 20

RMR — 20 40 60 80

*(CONTINUED ON NEXT PAGE)*

PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# DRILL HOLE # BH-BGC10-9

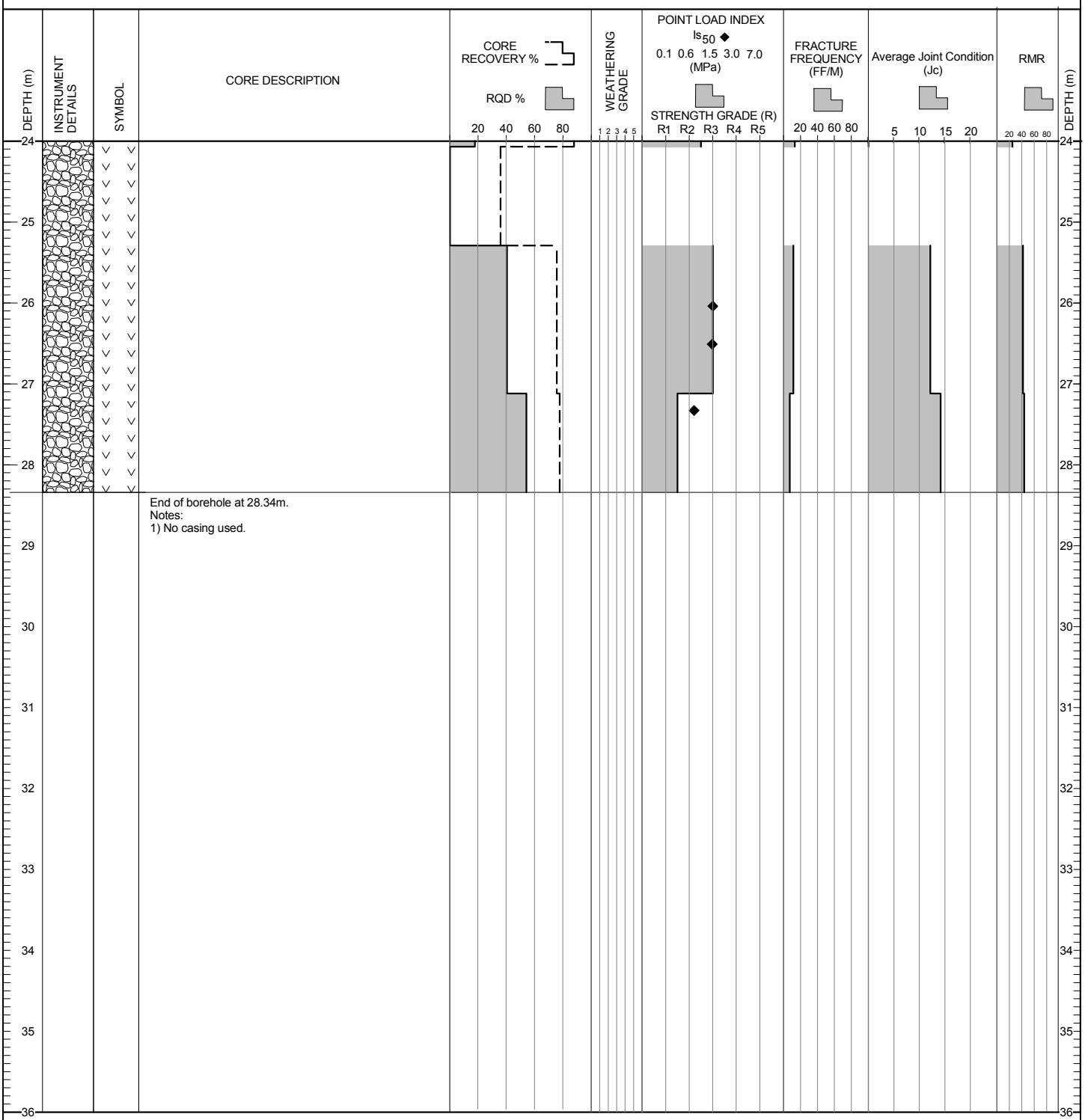
LOCATION : EAGLE PUP



CO-ORDINATES (m) 460191E - 7100825N
GROUND ELEVATION (m) : 987
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : n/a

DRILL DESIGNATION : CS-1000
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond
CORE SIZE : HQ3
FLUID : Water/Polymer
CASED TO (m): 0

START DATE : 19 Aug 10
FINISH DATE : 20 Aug 10
FINAL DEPTH (m) : 28.3
DEPTH TO TOP OF ROCK (m) : 13.4
LOGGED BY : MM/AKU
REVIEWED BY : PQ

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EGP (ROCK) EGP_ROCK.GDL BGC.GDT 11/16/11

PROJECT: Eagle Gold Project - Infrastructure
PROJECT NO.: 0792-004

# DRILL HOLE # BH-BGC10-10

LOCATION : EAGLE PUP



CO-ORDINATES (m): 460017E - 7100722N
GROUND ELEVATION (m) : 971
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : N/A

DRILL DESIGNATION : CS-10
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond
CORE : HQ3
FLUID : Water / Polymer
CASED TO (m) : 19.70

START DATE : 19 May 10
FINISH DATE : 20 May 10
FINAL DEPTH (m) : 23.5
DEPTH TO TOP OF ROCK (m) : 8.8
LOGGED BY : LGT/ASW
REVIEWED BY : PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | SYMBOL | LITHOLOGIC DESCRIPTION | INSTRUMENT DETAILS | SPT BLOWS PER 150mm |
|---|---|---|---|---|---|---|
| 0 | | | | GRAVEL (GP)<br>Medium to coarse (mainly coarse), some cobbles, poorly graded, max. particle size= 45mm, elongated, angular to subangular, some iron oxide staining, metasedimentary, (R3).<br>Poor recovery: matrix washed away.<br>[FILL/ DRILLING PAD] | | |
| 9 | | | | Rock encountered at 8.83 m depth.<br>Refer to rock log. | | |

Su - kPa: 40, 80, 120, 160
★ % FINES
● SPT (blows/300mm)
RECOVERY: 20, 40, 60, 80
MOISTURE CONTENT & SPT N
$W_P$% W% $W_L$%
20, 40, 60, 80



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PROJECT: Eagle Gold Project - Infrastructure
PROJECT NO.: 0792-004

# DRILL HOLE # BH-BGC10-10

LOCATION : EAGLE PUP

CO-ORDINATES (m) 460017E - 7100722N
GROUND ELEVATION (m) : 971
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : n/a

DRILL DESIGNATION : CS-10
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond
CORE SIZE : HQ3
FLUID : Water / Polymer
CASED TO (m): 19.7

START DATE : 19 May 10
FINISH DATE : 20 May 10
FINAL DEPTH (m) : 23.5
DEPTH TO TOP OF ROCK (m) : 8.8
LOGGED BY : LGT/ASW
REVIEWED BY : PQ

| DEPTH (m) | INSTRUMENT DETAILS | SYMBOL | CORE DESCRIPTION |
|---|---|---|---|
| 0 to 8.83 | | | 0 to 8.83 m - See BH-BGC10-10 soil log. |
| 9 to 12 | | | BEDROCK<br>Interbedded layers of:<br>- Dark blue grey metasedimentary rock, fine grained, phyllic, foliate, W3, weak to moderately strong (R2-R3), thinly bedded, hematite altered. [MODERATELY WEATHERED BEDROCK]<br>- Gravel (GP), fine to coarse, some cobbles, poorly graded, max. particle size= 45 mm, flat to equant, angular to sub angular.<br>8.9 m - Zone of moderately foliated phyllitic material, greyish silver with some quartz veining.<br>10.4 m - Clay altered zone (almost 100%), some relict clasts of phyllite. |

CORE RECOVERY %
RQD % (20 40 60 80)
WEATHERING GRADE (1 2 3 4 5)
POINT LOAD INDEX $Is_{50}$ ◆ 0.1 0.6 1.5 3.0 7.0 (MPa)
STRENGTH GRADE (R) R1 R2 R3 R4 R5
FRACTURE FREQUENCY (FF/M) (20 40 60 80)
Average Joint Condition (Jc) (5 10 15 20)
RMR (20 40 60 80)

(CONTINUED ON NEXT PAGE)

PROJECT: Eagle Gold Project - Infrastructure
PROJECT NO.: 0792-004

# DRILL HOLE # BH-BGC10-10

LOCATION : EAGLE PUP

CO-ORDINATES (m) 460017E - 7100722N
GROUND ELEVATION (m) : 971
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : n/a

DRILL DESIGNATION : CS-10
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond
CORE SIZE : HQ3
FLUID : Water / Polymer
CASED TO (m): 19.7

START DATE : 19 May 10
FINISH DATE : 20 May 10
FINAL DEPTH (m) : 23.5
DEPTH TO TOP OF ROCK (m) : 8.8
LOGGED BY : LGT/ASW
REVIEWED BY : PQ

| DEPTH (m) | INSTRUMENT DETAILS | SYMBOL | CORE DESCRIPTION |
|---|---|---|---|
| 12 | | | |
| 13 | | | 13.0 m - Zone of moderate foliated phyllitic material, greyish silver with some quartz veining. |
| 14 | | | 14.00 m - Poor recovery: core, dark blue grey, fine grained, thinly bedded metasediment with some hematite alteration. Slightly weathered (W2) with fracture surfaces showing iron oxide staining and faint decomposition, weak to moderately strong (R2-R3). Closely spaced joints are present along the foliations |
| 15 | | | |
| 16 | | | |
| 17 | | | 17.40 m - Poor recovery: Recovered clasts thinly bedded metasedimentary phillite and quartzite, rock is moderately strong (R3), W2. Clay is highly plastic. |
| 18 | | | |
| 19 | | | |
| 20 | | | 20.00 m - Phyllite. Highly foliated, moderately limonized phyllite with crinkly foliation, friability increases intensely towards bottom of interval<br>20.0 m - poor recovery: corestones, max particle size= 250mm, bluish grey metasediment, fine grained and thinly bedded, hematite alteration and iron oxide staining on fractures. Joints along bedding, W3. |
| 21 | | | |
| 22 | | | |
| 23 | | | |
| 24 | | | End of borehole at 23.46m.<br>Notes:<br>1. No water level measurement taken due to thick |

CORE RECOVERY %
RQD % (20 40 60 80)
WEATHERING GRADE (1 2 3 4 5)
POINT LOAD INDEX $Is_{50}$ ◆ 0.1 0.6 1.5 3.0 7.0 (MPa)
STRENGTH GRADE (R) R1 R2 R3 R4 R5
FRACTURE FREQUENCY (FF/M) (20 40 60 80)
Average Joint Condition (Jc) (5 10 15 20)
RMR (20 40 60 80)

*(CONTINUED ON NEXT PAGE)*

PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# DRILL HOLE # BH-BGC10-10

LOCATION : EAGLE PUP

CO-ORDINATES (m) 460017E - 7100722N
GROUND ELEVATION (m) : 971
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : n/a

DRILL DESIGNATION : CS-10
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond
CORE SIZE : HQ3
FLUID : Water / Polymer
CASED TO (m): 19.7

START DATE : 19 May 10
FINISH DATE : 20 May 10
FINAL DEPTH (m) : 23.5
DEPTH TO TOP OF ROCK (m) : 8.8
LOGGED BY : LGT/ASW
REVIEWED BY : PQ

| DEPTH (m) | INSTRUMENT DETAILS | SYMBOL | CORE DESCRIPTION |
|---|---|---|---|
| 24 | | | bentonite mud used in drilling.<br>2. Due to poor recovery and high degree of weathering it is difficult to conclusively determine if recovred core is actually bedrock or possibly colluvium<br>3. Drill rig encountered difficulty during drilling due to settlement of its recently created pad and the early loss of water return. |

CORE RECOVERY %
RQD % 20 40 60 80

WEATHERING GRADE 1 2 3 4 5

POINT LOAD INDEX $Is_{50}$ ◆ 0.1 0.6 1.5 3.0 7.0 (MPa)
STRENGTH GRADE (R) R1 R2 R3 R4 R5

FRACTURE FREQUENCY (FF/M) 20 40 60 80

Average Joint Condition (Jc) 5 10 15 20

RMR 20 40 60 80

DEPTH (m) 24 25 26 27 28 29 30 31 32 33 34 35 36

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EGP (ROCK) EGP_ROCK.GDL BGC.GDT 11/16/11

PROJECT: Eagle Gold Project - Infrastructure
PROJECT NO.: 0792-004

# DRILL HOLE # BH-BGC10-11

LOCATION : WEST FLANK TIN DOME

CO-ORDINATES (m): 458966E - 7101156N
GROUND ELEVATION (m) : 857
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : N/A

DRILL DESIGNATION : CS-1000
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond
CORE : HQ3
FLUID : Water / Polymer
CASED TO (m) : 15.24

START DATE : 18 Aug 10
FINISH DATE : 19 Aug 10
FINAL DEPTH (m) : 46.6
DEPTH TO TOP OF ROCK (m) : 13.2
LOGGED BY : MM/AKU
REVIEWED BY : PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | SYMBOL | LITHOLOGIC DESCRIPTION | INSTRUMENT DETAILS | SPT BLOWS PER 150mm |
|---|---|---|---|---|---|---|
| 0 | | | | No Recovery:<br>Refer to test pit # TP-BGC10-33 for soil description. | | |
| 7 | | | | GRAVEL (GM)<br>Sandy, trace silt, trace cobbles, trace boulders, maximum particle size = 250 mm, angular, disintegrated, orange brown, heavily oxidized, fine grained, highly to completely weathered rock (W4 to W5), very weak (R1).<br>[HIGHLY TO COMPLETELY WEATHERED METASEDIMENTARY ROCK] | | |
| 12 | | | | | | |

Su - kPa: 40, 80, 120, 160
★ % FINES
● SPT (blows/300mm)
RECOVERY: 20, 40, 60, 80
MOISTURE CONTENT & SPT N: $W_P$% W% $W_L$%: 20, 40, 60, 80

*(Continued on next page)*

PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# DRILL HOLE # BH-BGC10-11

LOCATION : WEST FLANK TIN DOME

CO-ORDINATES (m): 458966E - 7101156N
GROUND ELEVATION (m) : 857
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : N/A

DRILL DESIGNATION : CS-1000
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond
CORE : HQ3
FLUID : Water / Polymer
CASED TO (m) : 15.24

START DATE : 18 Aug 10
FINISH DATE : 19 Aug 10
FINAL DEPTH (m) : 46.6
DEPTH TO TOP OF ROCK (m) : 13.2
LOGGED BY : MM/AKU
REVIEWED BY : PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | SYMBOL | LITHOLOGIC DESCRIPTION | INSTRUMENT DETAILS | SPT BLOWS PER 150mm |
|---|---|---|---|---|---|---|
| 12 | | | | | | |
| 13 | | | | Rock encountered at 13.20 m depth.<br>Refer to rock log. | | |
| 14 | | | | | | |
| 15 | | | | | | |
| 16 | | | | | | |
| 17 | | | | | | |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |
| 23 | | | | | | |
| 24 | | | | | | |

Su - kPa: 40, 80, 120, 160

★ % FINES

● SPT (blows/300mm)

RECOVERY: 20, 40, 60, 80

MOISTURE CONTENT & SPT N
$W_P$% W% $W_L$%
20, 40, 60, 80



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PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# DRILL HOLE # BH-BGC10-11

LOCATION : WEST FLANK TIN DOME

CO-ORDINATES (m) 458966E - 7101156N
GROUND ELEVATION (m) : 857
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : n/a

DRILL DESIGNATION : CS-1000
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond
CORE SIZE : HQ3
FLUID : Water / Polymer
CASED TO (m): 15.24

START DATE : 18 Aug 10
FINISH DATE : 19 Aug 10
FINAL DEPTH (m) : 46.6
DEPTH TO TOP OF ROCK (m) : 13.2
LOGGED BY : MM/AKU
REVIEWED BY : PQ

| DEPTH (m) | INSTRUMENT DETAILS | SYMBOL | CORE DESCRIPTION |
|---|---|---|---|
| 12 | | | |
| 13 | | | 0 to 13.20 m - See BH-BGC10-11 soil log. |
| 14 | | | BEDROCK<br>Grey, white veins, iron stained, fine grained, phyllic, very weak to weak (R1-R2), highly to moderately weathered (W3-W4), soapy, shiny, clay-like, appears as silt, sand, gravel and clay most of the time. When recovered structures appeared organized as two sets (40° and 65-75°), parallel to foliations, planar to undulating, smooth to rough.<br>[HIGHLY TO MODERATELY WEATHERED METASEDIMENTARY ROCK]<br>14.68 - 16.20 m - reddish grey to white. |
| 15 | | | |
| 16 | | | |
| 17 | | | |
| 18 | | | |
| 19 | | | |
| 20 | | | |
| 21 | | | 20.44 - 22.28 m - Brown, silt, clay, gravel. |
| 22 | | | |
| 23 | | | |
| 24 | | | |

CORE RECOVERY %
RQD % (20 40 60 80)

WEATHERING GRADE (1 2 3 4 5)

POINT LOAD INDEX $Is_{50}$ ◆ 0.1 0.6 1.5 3.0 7.0 (MPa)
STRENGTH GRADE (R) R1 R2 R3 R4 R5

FRACTURE FREQUENCY (FF/M) (20 40 60 80)

Average Joint Condition (Jc) (5 10 15 20)

RMR (20 40 60 80)

*(CONTINUED ON NEXT PAGE)*

PROJECT: Eagle Gold Project - Infrastructure
PROJECT NO.: 0792-004

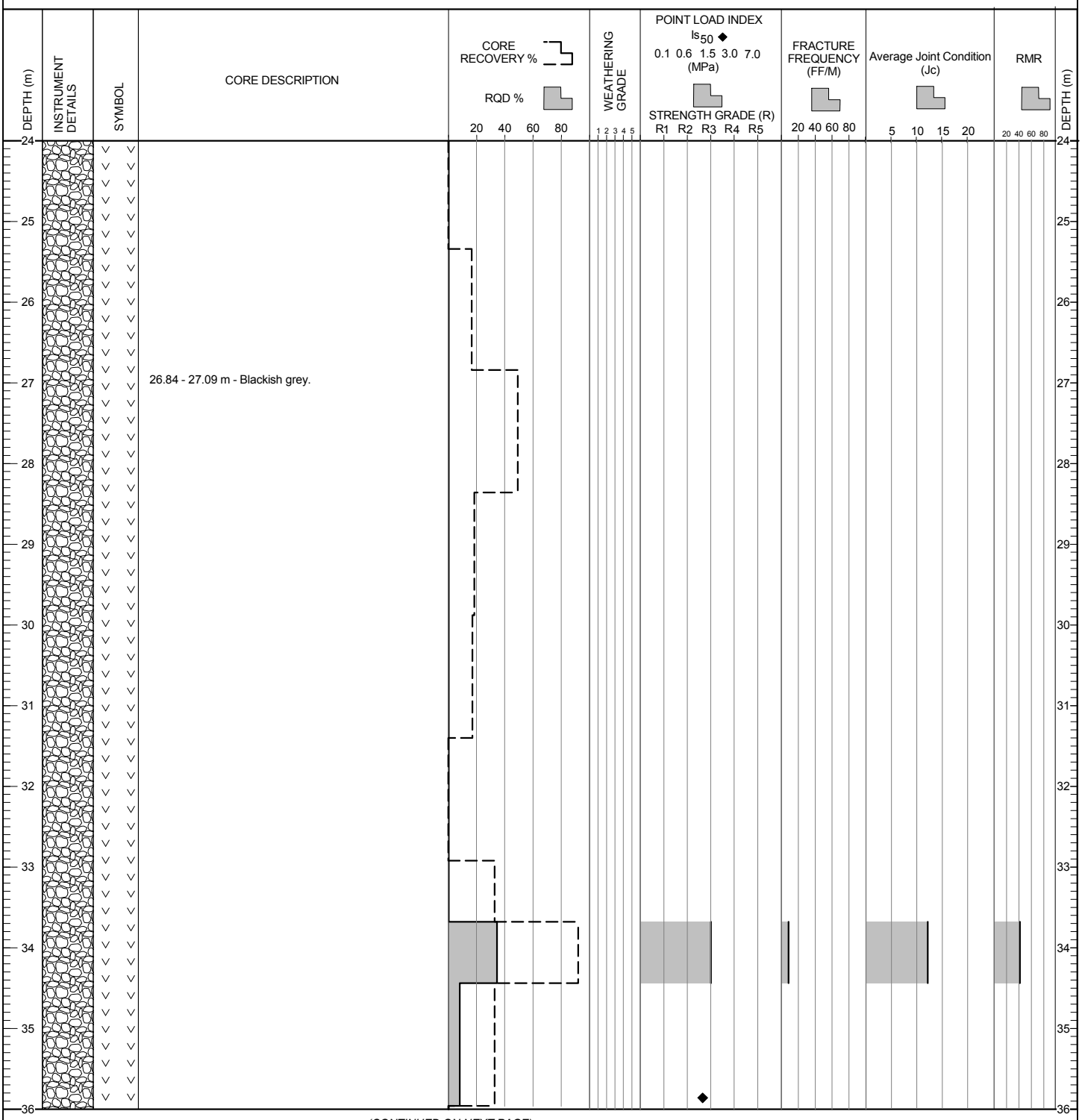
# DRILL HOLE # BH-BGC10-11

LOCATION : WEST FLANK TIN DOME

CO-ORDINATES (m) 458966E - 7101156N
GROUND ELEVATION (m) : 857
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : n/a

DRILL DESIGNATION : CS-1000
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond
CORE SIZE : HQ3
FLUID : Water / Polymer
CASED TO (m): 15.24

START DATE : 18 Aug 10
FINISH DATE : 19 Aug 10
FINAL DEPTH (m) : 46.6
DEPTH TO TOP OF ROCK (m) : 13.2
LOGGED BY : MM/AKU
REVIEWED BY : PQ

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PROJECT NO.: 0792-004

# DRILL HOLE # BH-BGC10-11

LOCATION : WEST FLANK TIN DOME

CO-ORDINATES (m) 458966E - 7101156N
GROUND ELEVATION (m) : 857
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : n/a

DRILL DESIGNATION : CS-1000
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond
CORE SIZE : HQ3
FLUID : Water / Polymer
CASED TO (m): 15.24

START DATE : 18 Aug 10
FINISH DATE : 19 Aug 10
FINAL DEPTH (m) : 46.6
DEPTH TO TOP OF ROCK (m) : 13.2
LOGGED BY : MM/AKU
REVIEWED BY : PQ


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PROJECT: Eagle Gold Project - Infrastructure
PROJECT NO.: 0792-004

# DRILL HOLE # BH-BGC10-12

LOCATION : WEST FLANK TIN DOME

CO-ORDINATES (m): 458779E - 7101125N
GROUND ELEVATION (m) : 860
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : N/A

DRILL DESIGNATION : CS-1000
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond
CORE : HQ3
FLUID : Water / Polymer
CASED TO (m) : 18.29

START DATE : 16 Aug 10
FINISH DATE : 16 Aug 10
FINAL DEPTH (m) : 28.7
DEPTH TO TOP OF ROCK (m) : 19.2
LOGGED BY : MM/AKU
REVIEWED BY : PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | SYMBOL | LITHOLOGIC DESCRIPTION | INSTRUMENT DETAILS | SPT BLOWS PER 150mm |
|---|---|---|---|---|---|---|
| 0 | | | | No Recovery:<br>Refer to test pit # TP-BGC10-34 for soil description. | | |
| 6 | | | | GRAVEL (GM)<br>Sandy, trace silt, trace cobbles, trace boulders, maximum particle size = 250 mm, angular, disintegrated, orange brown, heavily oxidized, fine grained, highly to completely weathered rock (W4 to W5), very weak (R1).<br>[HIGHLY TO COMPLETELY WEATHERED METASEDIMENTARY ROCK] | | |

Su - kPa: 40, 80, 120, 160
★ % FINES
● SPT (blows/300mm)
RECOVERY: 20, 40, 60, 80
MOISTURE CONTENT & SPT N: $W_P$% W% $W_L$%: 20, 40, 60, 80

*(Continued on next page)*

PROJECT: Eagle Gold Project - Infrastructure
PROJECT NO.: 0792-004

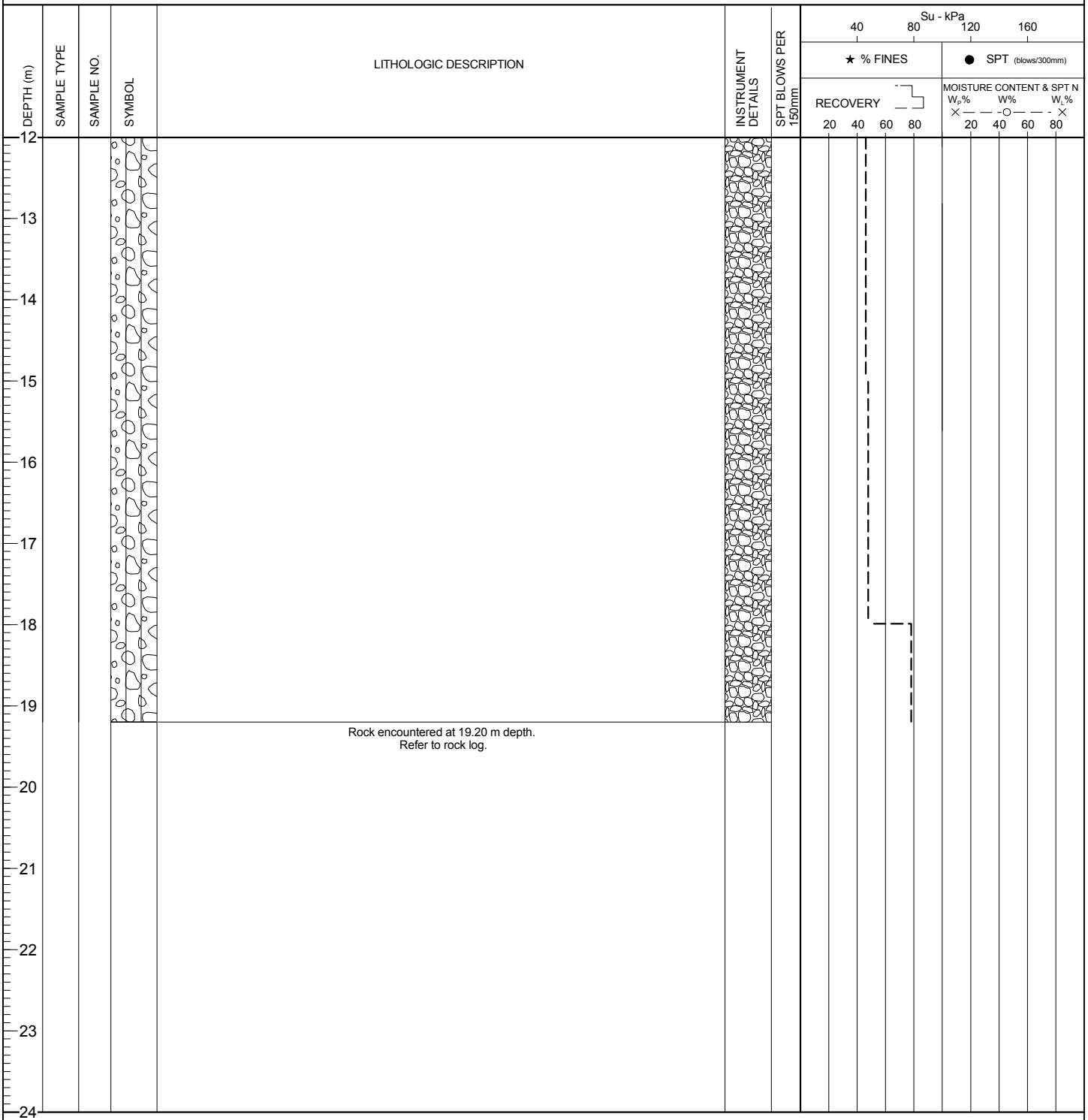
# DRILL HOLE # BH-BGC10-12

LOCATION : WEST FLANK TIN DOME

CO-ORDINATES (m): 458779E - 7101125N
GROUND ELEVATION (m) : 860
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : N/A

DRILL DESIGNATION : CS-1000
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond
CORE : HQ3
FLUID : Water / Polymer
CASED TO (m) : 18.29

START DATE : 16 Aug 10
FINISH DATE : 16 Aug 10
FINAL DEPTH (m) : 28.7
DEPTH TO TOP OF ROCK (m) : 19.2
LOGGED BY : MM/AKU
REVIEWED BY : PQ

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CLIENT: Victoria Gold Corporation

PRINT DATE: 11/16/2011

EGP (SOIL) EGP_SOIL.GDL BGC.GDT 11/16/11

PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

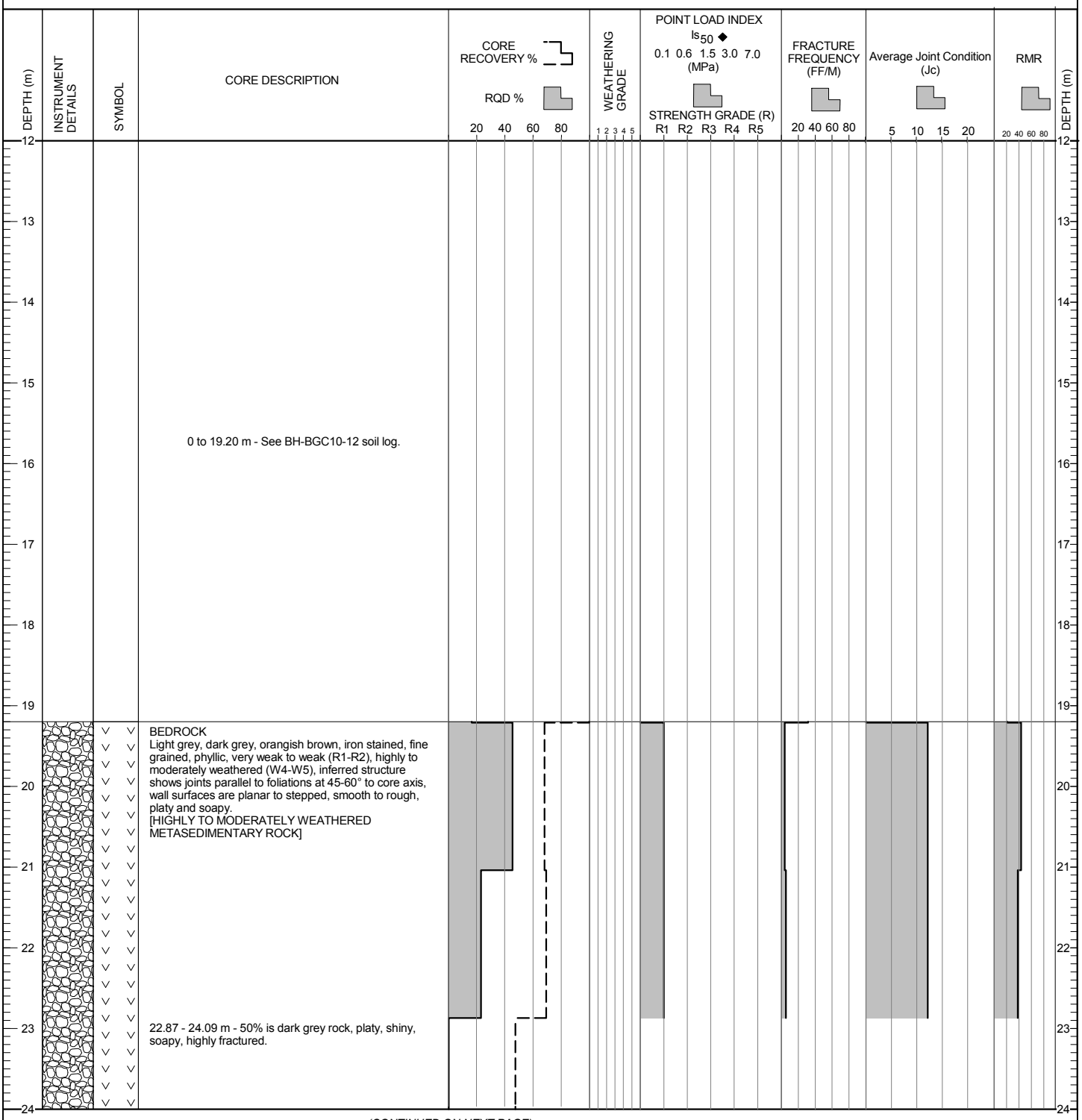
# DRILL HOLE # BH-BGC10-12

LOCATION : WEST FLANK TIN DOME

CO-ORDINATES (m) 458779E - 7101125N
GROUND ELEVATION (m) : 860
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : n/a

DRILL DESIGNATION : CS-1000
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond
CORE SIZE : HQ3
FLUID : Water / Polymer
CASED TO (m): 18.29

START DATE : 16 Aug 10
FINISH DATE : 16 Aug 10
FINAL DEPTH (m) : 28.7
DEPTH TO TOP OF ROCK (m) : 19.2
LOGGED BY : MM/AKU
REVIEWED BY : PQ

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PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# DRILL HOLE # BH-BGC10-12

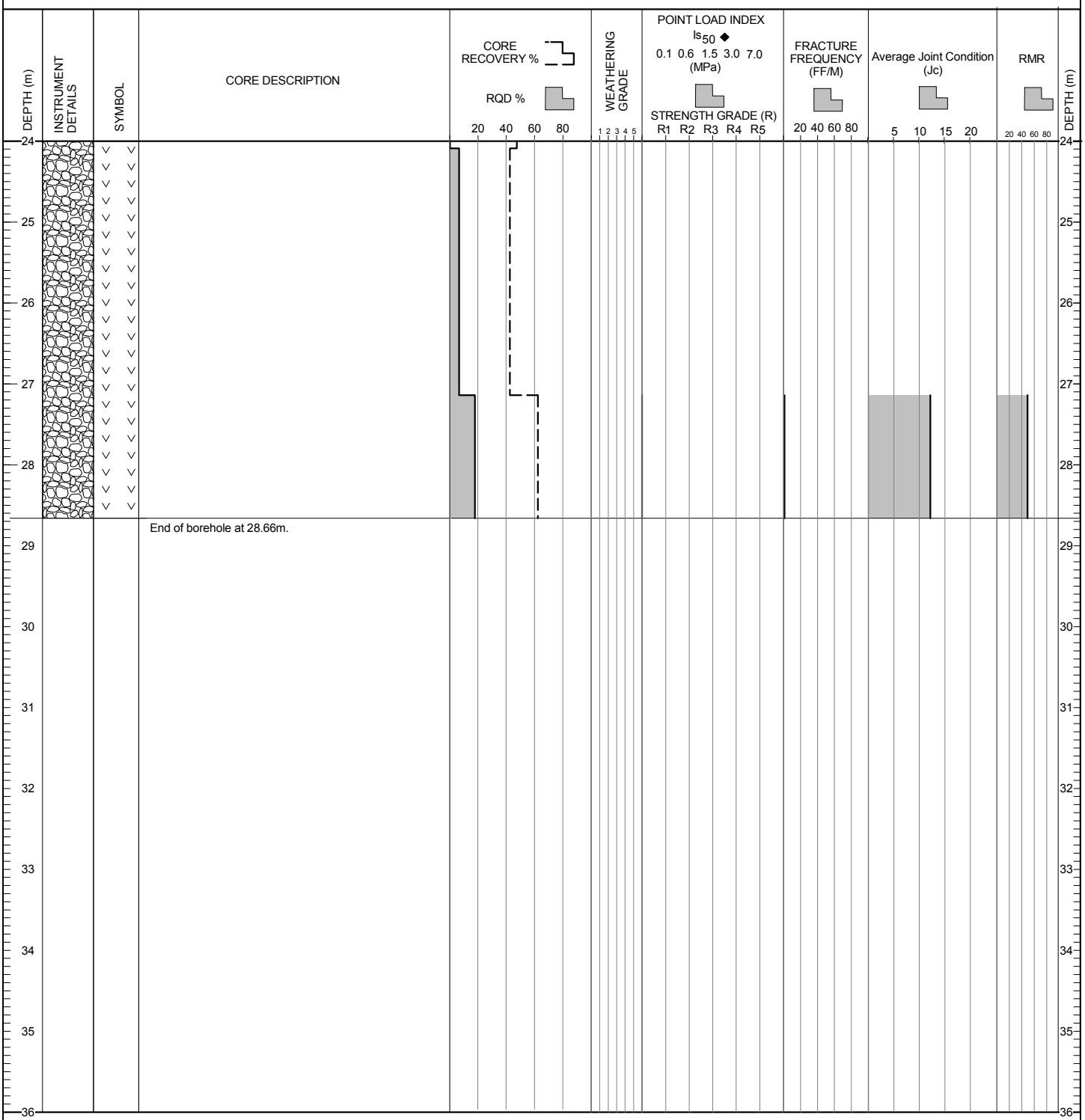
LOCATION : WEST FLANK TIN DOME



CO-ORDINATES (m) 458779E - 7101125N
GROUND ELEVATION (m) : 860
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : n/a

DRILL DESIGNATION : CS-1000
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond
CORE SIZE : HQ3
FLUID : Water / Polymer
CASED TO (m): 18.29

START DATE : 16 Aug 10
FINISH DATE : 16 Aug 10
FINAL DEPTH (m) : 28.7
DEPTH TO TOP OF ROCK (m) : 19.2
LOGGED BY : MM/AKU
REVIEWED BY : PQ

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PRINT DATE: 11/16/2011

EGP (ROCK) EGP_ROCK.GDL BGC.GDT 11/16/11

PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# DRILL HOLE # BH-BGC10-13

LOCATION : DUBLIN GULCH VALLEY BOTTOM

CO-ORDINATES (m): 458844E - 7100942N
GROUND ELEVATION (m) : 825
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : N/A

DRILL DESIGNATION : Auger/CS-10
DRILLING CONTRACTOR : Core Drilling /Lyncorp
DRILL METHOD : Auger/ Diamond
CORE : HQ3
FLUID : Water / Polymer
CASED TO (m) : 4.50

START DATE : 14 May 10
FINISH DATE : 17 May 10
FINAL DEPTH (m) : 19.5
DEPTH TO TOP OF ROCK (m) : 12.2
LOGGED BY : TW/LGT/ASW
REVIEWED BY : PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | SYMBOL | LITHOLOGIC DESCRIPTION | INSTRUMENT DETAILS | SPT BLOWS PER 150mm |
|---|---|---|---|---|---|---|
| 0 | | | | GRAVEL (GW)<br>Sandy, trace cobbles, well graded, loose, max. particle size = 60 mm, elongated to equant, angular to rounded, greyish brown, moist, interbedded, non cemented, clasts are fresh to slightly weathered, (R2-R4), metasedimentary & intrusive (granodiorite/quartzite) rock.<br>[FILL] | | |
| 1 | | SPT1 | | and<br>SAND (SW)<br>Gravelly, some silt (medium dilatancy/non plastic), well graded, max. particle size= 50mm, equant, subrounded to angular, orange brown, dry, homogeneous.<br>[FILL] | | 9<br>13<br>17 |
| 2 | | SPT2 | | | | 6<br>21<br>20 |
| | | SPT3 | | | | 13<br>14<br>13 |
| 3 | | SPT4 | | 3.04 m - Maximum particle size = 60 mm, elongated to equant, angular to subangular, greyish brown. | | 8<br>10<br>9 |
| 4 | | SPT5 | | | | 12<br>17<br>18 |
| | | SPT6 | | 4.26 m - Maximum particle size = 130 mm. | | 10<br>22<br>R |
| 5 | | | | | | |
| 6 | | | | 5.69 m - Thin bed of sand, medium to coarse, trace gravel, fine, poorly graded, max. particle size= 5mm, equant, angular, grey brown, homogeneous.<br>5.78 m - Well graded, trace to some cobbles, trace boulders max. particle size= 80mm, elongated to equant, angular to subangular. | | |
| 7 | | | | 7.3 m - Max. particle size= 60mm, whitish pink to whitish blue. | | |
| 8 | | | | 8.0 m - Max. particle size= 10mm, subangular to subrounded, whitish pink to blue grey. | | |
| 9 | | | | 8.8 m - Max. particle size= 40mm, sand is yellowish brown. | | |
| 10 | | | | 9.52 m - Boulder: bluish grey, fine grained, bedded/stratified, metasediments.<br>9.72 m - 30 mm thick piece of wood, dark bluish black. | | |
| 11 | | | | 10.7 m - Max. particle size = 40mm, flat to elongated, subangular, blue grey, weathered from underneath. | | |
| 12 | | | | GRAVEL (GW) and SAND<br>Some silt to silty, clasts are moderately to highly weathered, bluish grey, fine grained, bedded, metasedimentary, flat, angular, rusty blue grey.<br>[COLLUVIUM] | | |

Su - kPa: 40, 80, 120, 160

★ % FINES

● SPT (blows/300mm)

RECOVERY: 20, 40, 60, 80

MOISTURE CONTENT & SPT N: $W_P$%, W%, $W_L$%: 20, 40, 60, 80

*(Continued on next page)*

PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# DRILL HOLE # BH-BGC10-13

LOCATION : DUBLIN GULCH VALLEY BOTTOM

CO-ORDINATES (m): 458844E - 7100942N
GROUND ELEVATION (m) : 825
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : N/A

DRILL DESIGNATION : Auger/CS-10
DRILLING CONTRACTOR : Core Drilling /Lyncorp
DRILL METHOD : Auger/ Diamond
CORE : HQ3
FLUID : Water / Polymer
CASED TO (m) : 4.50

START DATE : 14 May 10
FINISH DATE : 17 May 10
FINAL DEPTH (m) : 19.5
DEPTH TO TOP OF ROCK (m) : 12.2
LOGGED BY : TW/LGT/ASW
REVIEWED BY : PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | SYMBOL | LITHOLOGIC DESCRIPTION | INSTRUMENT DETAILS | SPT BLOWS PER 150mm |
|---|---|---|---|---|---|---|
| 12 | | | | 11.9 m - Max. particle size = 40mm, rusty pink to bluish grey.<br>12.0 m - Silty sandy matrix of medium plasticity, rapid dilatancy, medium dry strength.<br>Rock encountered at 12.15 m depth.<br>Refer to rock log. | | |

Su - kPa: 40, 80, 120, 160

★ % FINES | ● SPT (blows/300mm)

RECOVERY: 20, 40, 60, 80

MOISTURE CONTENT & SPT N: $W_P$% — W% — $W_L$%: 20, 40, 60, 80



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PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

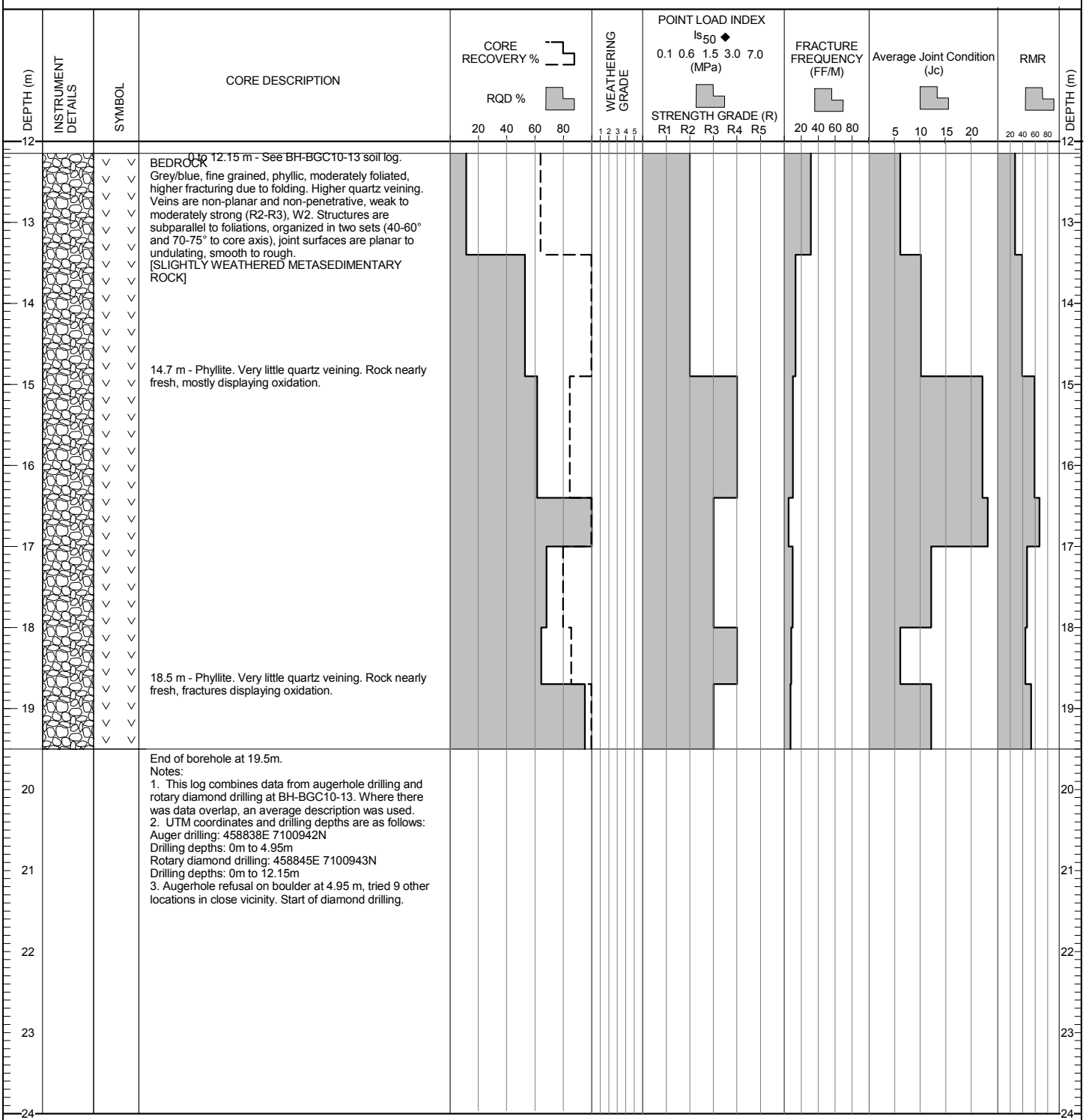
# DRILL HOLE # BH-BGC10-13

LOCATION : DUBLIN GULCH VALLEY BOTTOM

CO-ORDINATES (m) 458844E - 7100942N
GROUND ELEVATION (m) : 825
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : n/a

DRILL DESIGNATION : Auger/CS-10
DRILLING CONTRACTOR : Core Drilling /Lyncorp
DRILL METHOD : Auger/ Diamond
CORE SIZE : HQ3
FLUID : Water / Polymer
CASED TO (m): 4.5

START DATE : 14 May 10
FINISH DATE : 17 May 10
FINAL DEPTH (m) : 19.5
DEPTH TO TOP OF ROCK (m) : 12.2
LOGGED BY : TW/LGT/ASW
REVIEWED BY : PQ

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EGP (ROCK) EGP_ROCK.GDL BGC.GDT 11/16/11

PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# DRILL HOLE # BH-BGC10-14

LOCATION : DUBLIN GULCH VALLEY BOTTOM

CO-ORDINATES (m): 458580E - 7100980N
GROUND ELEVATION (m) : 808
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : N/A

DRILL DESIGNATION : C407 Auger
DRILLING CONTRACTOR : Core Drilling
DRILL METHOD : Solid/Hollow Stem Auger
CORE : 4'1/4 aug
FLUID : None
CASED TO (m) : 20.60

START DATE : 12 May 10
FINISH DATE : 13 May 10
FINAL DEPTH (m) : 20.7
DEPTH TO TOP OF ROCK (m) :
LOGGED BY : TW/LGT/ASW
REVIEWED BY : PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | LITHOLOGIC DESCRIPTION | SPT BLOWS PER 150mm |
|---|---|---|---|---|
| 0 | | | GRAVEL and SAND (GW/SW)<br>Well graded, max. particle size= 12 mm, particles are elongated to equant, angular to sub-rounded, greyish brown, moist, homogeneous, non-cemented.<br>[FILL] | |
| 1 | G | G1 | | |
| | | | 1.3 m - Trace silt, max. particle size=10 mm, elongated, angular to sub-angular. | |
| | SPT | SPT1 | | 37<br>R |
| 2 | | | SILT and SAND<br>Trace to some clay, trace to some gravel, low plasticity, soft to very soft, brown, wet, interbedded, medium dilatancy, gravel is angular to sub-rounded.<br>[FILL] | |
| | G | G2 | | |
| | G | G3 | 2.8 m - Trace cobbles, well graded, max. particle size= 80 mm, 5% is > 75 mm, elongated to equant, subangular to subrounded, greyish brown to pinkish grey, moist. | |
| 3 | SPT | SPT2 | | 8<br>5<br>6 |
| | G | G4 | | |
| 4 | G | G5 | 4.1 m - Max. particle size= 15 mm, rapid dilatancy. | |
| | SPT | SPT3 | 4.5 m - Max. particle size= 50mm, flat to equant, subangular to subrounded, R3. | 7<br>17<br>6 |
| 5 | G | G6 | | |
| 6 | SPT | SPT4 | 6.0 m - Trace cobbles, less than 5% > 75 mm. | 3<br>3<br>4 |
| | G | G7 | 7.0 m - Max. particle size= 5 mm, low plastic, very stiff, yellowish greyish brown, weak cementation, medium dry strength, medium dilatancy. | |
| 7 | SPT | SPT5 | | 2<br>3<br>4 |
| 8 | G | G8 | 8.2 m - Max. particle size= 80 mm, subangular to subrounded, orangish brown, dry, homogeneous. | |
| | G | G9 | | |
| 9 | | | | |
| | SPT | SPT6 | | 6<br>22<br>24 |
| 10 | | | GRAVEL (GW)<br>Sandy, trace silt, well graded, dense, max. particle size = 20mm, equant, subrounded to subangular, orangish brown, wet, homogeneous.<br>[FILL] | |
| | SPT | SPT7 | 10.5 m - Max. particle size = 35mm, particles are phyllite, dark grey with orangish red discolorations, slightly to moderately weathered, R2-R3 with trace quartzite. | 11<br>19<br>20 |
| 11 | | | | |
| 12 | | | | |

INSTRUMENT DETAILS

Su - kPa: 40, 80, 120, 160

★ % FINES

● SPT (blows/300mm)

RECOVERY: 20, 40, 60, 80

MOISTURE CONTENT & SPT N: $W_P$%, W%, $W_L$%: 20, 40, 60, 80

*(Continued on next page)*

PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# DRILL HOLE # BH-BGC10-14

LOCATION : DUBLIN GULCH VALLEY BOTTOM

CO-ORDINATES (m): 458580E - 7100980N
GROUND ELEVATION (m) : 808
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : N/A

DRILL DESIGNATION : C407 Auger
DRILLING CONTRACTOR : Core Drilling
DRILL METHOD : Solid/Hollow Stem Auger
CORE : 4'1/4 aug
FLUID : None
CASED TO (m) : 20.60

START DATE : 12 May 10
FINISH DATE : 13 May 10
FINAL DEPTH (m) : 20.7
DEPTH TO TOP OF ROCK (m) :
LOGGED BY : TW/LGT/ASW
REVIEWED BY : PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | SYMBOL | LITHOLOGIC DESCRIPTION | INSTRUMENT DETAILS | SPT BLOWS PER 150mm |
|---|---|---|---|---|---|---|
| 12 | SPT | SPT8 | | 12.0 m - Orangish brown. | | 13<br>21<br>22 |
| | | | | 12.45 - 15.0 m - No recovery. | | |
| 15 | SPT | SPT9 | | SAND (SP)<br>Gravelly, compact, max. particle size=15mm, equant, subrounded, non plastic, greyish brown, dense, interbeded and laminated<br>[FILL]<br>15.15 m -Thin bed of fine to coarse sand. | | 31<br>43<br>28 |
| 16 | SPT | SPT11 | | Max. particle size= 45mm, flat to equant, angular to subrounded, grey, weak cementation. Clasts are weathered metasedimentary and quartzite, moderately strong (R3). | | 12<br>14<br>26 |
| 18 | SPT | SPT12 | | GRAVEL (GP)<br>Trace sand, trace silt, very dense, max. particle size= 38mm, reddish orangish brown, wet, interbedded, no cementation. Highly weathered rock, very weak, crumbling into gravel and smaller. Clasts are weak to strong (R2 to R4), moderately weathered metasedimentary. | | 39<br>R |
| 19 | SPT | SPT13 | | 19.5 m - Homogeneous, weak to moderate cementation. Consists of highly weathered rock turning into soil. | | 21<br>R |
| 20 | SPT | SPT14 | | Light brown, wet, homogeneous, no cementation. | | R |
| 21 | | | | End of borehole at 20.67m.<br>Notes:<br>1. This log comprises data from several different drilling attempts. Where there was data overlap, an average description was used.<br>2. UTM coordinates and depths of recorded data for each relevant attempt are as follows:<br>Attempt 1: 458579E 7100975N<br>Depths: 0m to 1.5m<br>Attempt 4: 458585E 7100974N<br>Depths: 1.95m to 8.25m<br>Attempt 7: 458588E 7100980N<br>Depths: 7.5m to 9.0m<br>Attempt 9: 458579E 7100984N<br>Depths: 1.5m to 20.67m<br>3. End of hole due to refusal | | |
| 22 | | | | | | |
| 23 | | | | | | |
| 24 | | | | | | |

Su - kPa: 40, 80, 120, 160

★ % FINES

● SPT (blows/300mm)

RECOVERY: 20, 40, 60, 80

MOISTURE CONTENT & SPT N: $W_P$%, W%, $W_L$%: 20, 40, 60, 80



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PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# DRILL HOLE # BH-BGC10-15

LOCATION : MIDDLE REACH DUBLIN GULCH



CO-ORDINATES (m): 459835E - 7101280N
GROUND ELEVATION (m) : 894
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : N/A

DRILL DESIGNATION : CS-10
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond
CORE : HQ3
FLUID : Water / Polymer
CASED TO (m) : 9.75

START DATE : 18 May 10
FINISH DATE : 19 May 10
FINAL DEPTH (m) : 21.0
DEPTH TO TOP OF ROCK (m) : 8.8
LOGGED BY : TW/ASW
REVIEWED BY : PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | SYMBOL | LITHOLOGIC DESCRIPTION | INSTRUMENT DETAILS | SPT BLOWS PER 150mm |
|---|---|---|---|---|---|---|
| 0 | | | | No Recovery:<br>Refer to test pit # TP-BGC10-21 for soil description. | | |
| 9 | | | | Rock encountered at 8.83 m depth.<br>Refer to rock log. | | |

Su - kPa: 40, 80, 120, 160

★ % FINES

● SPT (blows/300mm)

RECOVERY: 20, 40, 60, 80

MOISTURE CONTENT & SPT N
$W_P$% W% $W_L$%
20, 40, 60, 80



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PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# DRILL HOLE # BH-BGC10-15

LOCATION : MIDDLE REACH DUBLIN GULCH

CO-ORDINATES (m) 459835E - 7101280N
GROUND ELEVATION (m) : 894
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : n/a

DRILL DESIGNATION : CS-10
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond
CORE SIZE : HQ3
FLUID : Water / Polymer
CASED TO (m): 9.75

START DATE : 18 May 10
FINISH DATE : 19 May 10
FINAL DEPTH (m) : 21.0
DEPTH TO TOP OF ROCK (m) : 8.8
LOGGED BY : TW/ASW
REVIEWED BY : PQ

| DEPTH (m) | INSTRUMENT DETAILS | SYMBOL | CORE DESCRIPTION | CORE RECOVERY % / RQD % (20 40 60 80) | WEATHERING GRADE (1 2 3 4 5) | POINT LOAD INDEX $Is_{50}$ ◆ 0.1 0.6 1.5 3.0 7.0 (MPa) / STRENGTH GRADE (R) R1 R2 R3 R4 R5 | FRACTURE FREQUENCY (FF/M) (20 40 60 80) | Average Joint Condition (Jc) (5 10 15 20) | RMR (20 40 60 80) | DEPTH (m) |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | | | 0 to 8.83 m - See BH-BGC10-15 soil log. | | | | | | | 0 |
| 9 | | | BEDROCK<br>Silverish-grey, fine grained, phyllic, foliated, moderately strong (R3), W2. Discontinuities are very closely spaced, parallel to foliations at 55-70° to core axis, planar, smooth to rough (mainly smooth).<br>[SLIGHTLY WEATHERED MEDISEDIMENTARY ROCK] | | | | | | | 9 |
| 12 | | | | | | | | | | 12 |

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PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

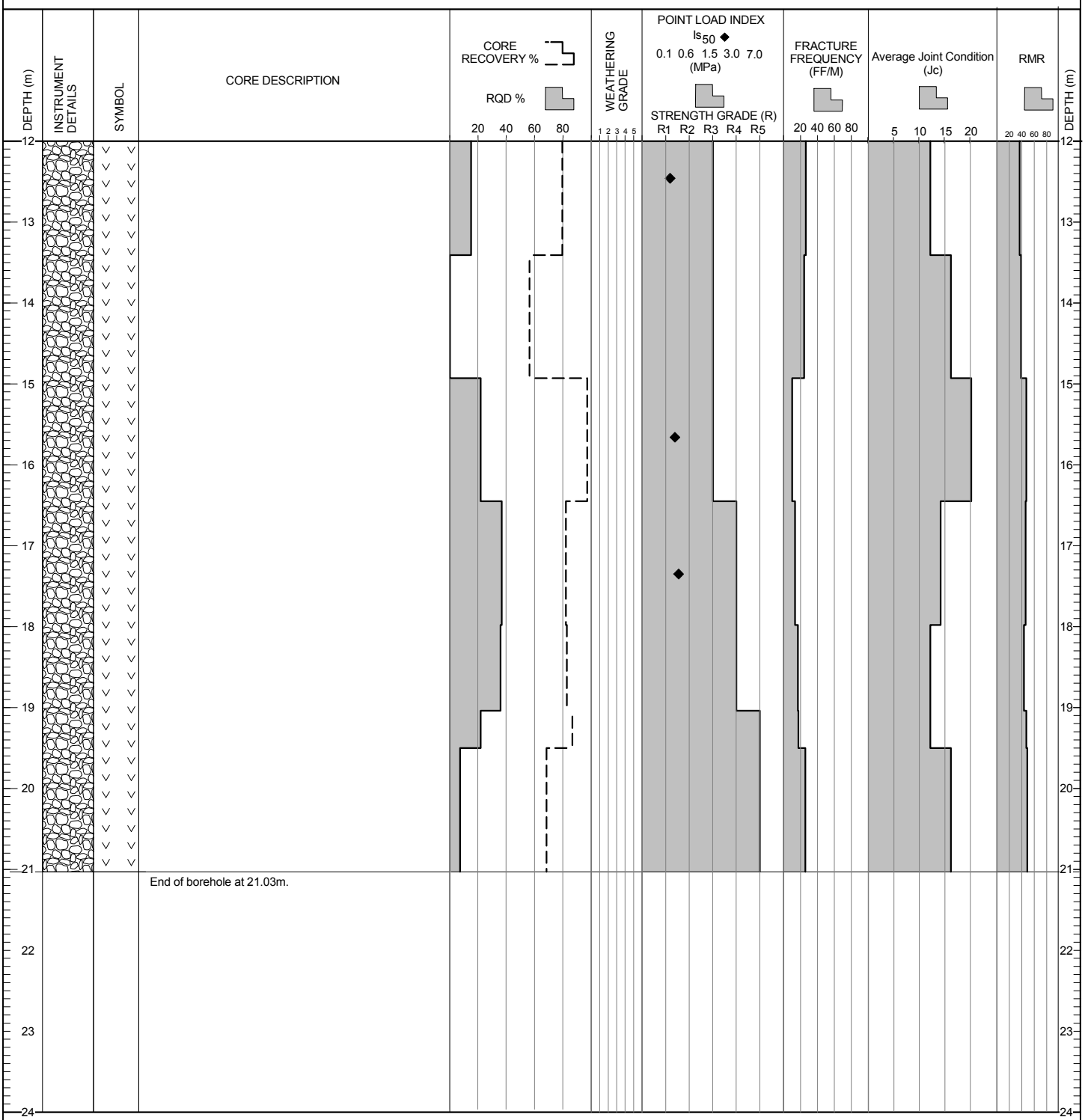
# DRILL HOLE # BH-BGC10-15

LOCATION : MIDDLE REACH DUBLIN GULCH

CO-ORDINATES (m) 459835E - 7101280N
GROUND ELEVATION (m) : 894
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : n/a

DRILL DESIGNATION : CS-10
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond
CORE SIZE : HQ3
FLUID : Water / Polymer
CASED TO (m): 9.75

START DATE : 18 May 10
FINISH DATE : 19 May 10
FINAL DEPTH (m) : 21.0
DEPTH TO TOP OF ROCK (m) : 8.8
LOGGED BY : TW/ASW
REVIEWED BY : PQ

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PRINT DATE: 11/16/2011

EGP (ROCK) EGP_ROCK.GDL BGC.GDT 11/16/11

PROJECT: Eagle Gold Project - Infrastructure
PROJECT NO.: 0792-004

# DRILL HOLE # BH-BGC10-16

LOCATION : STUTTLE GULCH



CO-ORDINATES (m): 459409E - 7100913N
GROUND ELEVATION (m) : 875
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : N/A

DRILL DESIGNATION : CS-1000
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond
CORE : HQ3
FLUID : Water/Polymer
CASED TO (m) : 0.00

START DATE : 14 Aug 10
FINISH DATE : 19 Aug 10
FINAL DEPTH (m) : 28.0
DEPTH TO TOP OF ROCK (m) : 9.9
LOGGED BY : MM
REVIEWED BY : PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | SYMBOL | LITHOLOGIC DESCRIPTION | INSTRUMENT DETAILS | SPT BLOWS PER 150mm |
|---|---|---|---|---|---|---|
| 0 | | | | No recovery. Refer to test pit # TP-BGC10-17 for soil description. | | |
| 8.4 | | | | GRAVEL (GM)<br>Some silt, angular, blue grey with heavy iron staining, maximum particle size = 50 mm.<br>[HIGHLY TO COMPLETELY WEATHERED METASEDIMENTARY ROCK] | | |
| 9.9 | | | | Rock encountered at 9.90 m depth.<br>Refer to rock log. | | |

Su - kPa: 40, 80, 120, 160
★ % FINES
● SPT (blows/300mm)
RECOVERY: 20, 40, 60, 80
MOISTURE CONTENT & SPT N: $W_P$% W% $W_L$%: 20, 40, 60, 80

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EGP (SOIL) EGP_SOIL.GDL BGC.GDT 11/16/11

PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# DRILL HOLE # BH-BGC10-16

LOCATION : STUTTLE GULCH

CO-ORDINATES (m) 459409E - 7100913N
GROUND ELEVATION (m) : 875
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : n/a

DRILL DESIGNATION : CS-1000
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond
CORE SIZE : HQ3
FLUID : Water/Polymer
CASED TO (m): 0

START DATE : 14 Aug 10
FINISH DATE : 19 Aug 10
FINAL DEPTH (m) : 28.0
DEPTH TO TOP OF ROCK (m) : 9.9
LOGGED BY : MM
REVIEWED BY : PQ

| DEPTH (m) | INSTRUMENT DETAILS | SYMBOL | CORE DESCRIPTION |
|---|---|---|---|
| 0 | | | 0 to 9.90 m - See BH-BGC10-16 soil log. |
| 10 | | | BEDROCK<br>Light greyish, white veins, iron staining in areas, fine grained, phyllic, very weak to strong (R1-R4), moderately to highly weathered (W3-W4), joints are organized in two sets (40-45° and 60-65°), joints are also planar/platy and rough or soapy. [MODERATELY TO HIGHLY WEATHERED METASEDIMENTARY ROCK/QUARTZITE]<br>10.93 - 11.23 m - Highly weathered W4, very weak (R1), shiny, soapy, platy, black, crumbles to silt and clay. Joint sets at ~ 55°, ~40° in rock. Quartzite is hard (R4-R5), but veiny rock can be weaker (R2). |

CORE RECOVERY %
RQD % (20 40 60 80)
WEATHERING GRADE (1 2 3 4 5)
POINT LOAD INDEX $Is_{50}$ ◆ 0.1 0.6 1.5 3.0 7.0 (MPa)
STRENGTH GRADE (R) R1 R2 R3 R4 R5
FRACTURE FREQUENCY (FF/M) (20 40 60 80)
Average Joint Condition (Jc) (5 10 15 20)
RMR (20 40 60 80)

*(CONTINUED ON NEXT PAGE)*

PROJECT: Eagle Gold Project - Infrastructure
PROJECT NO.: 0792-004

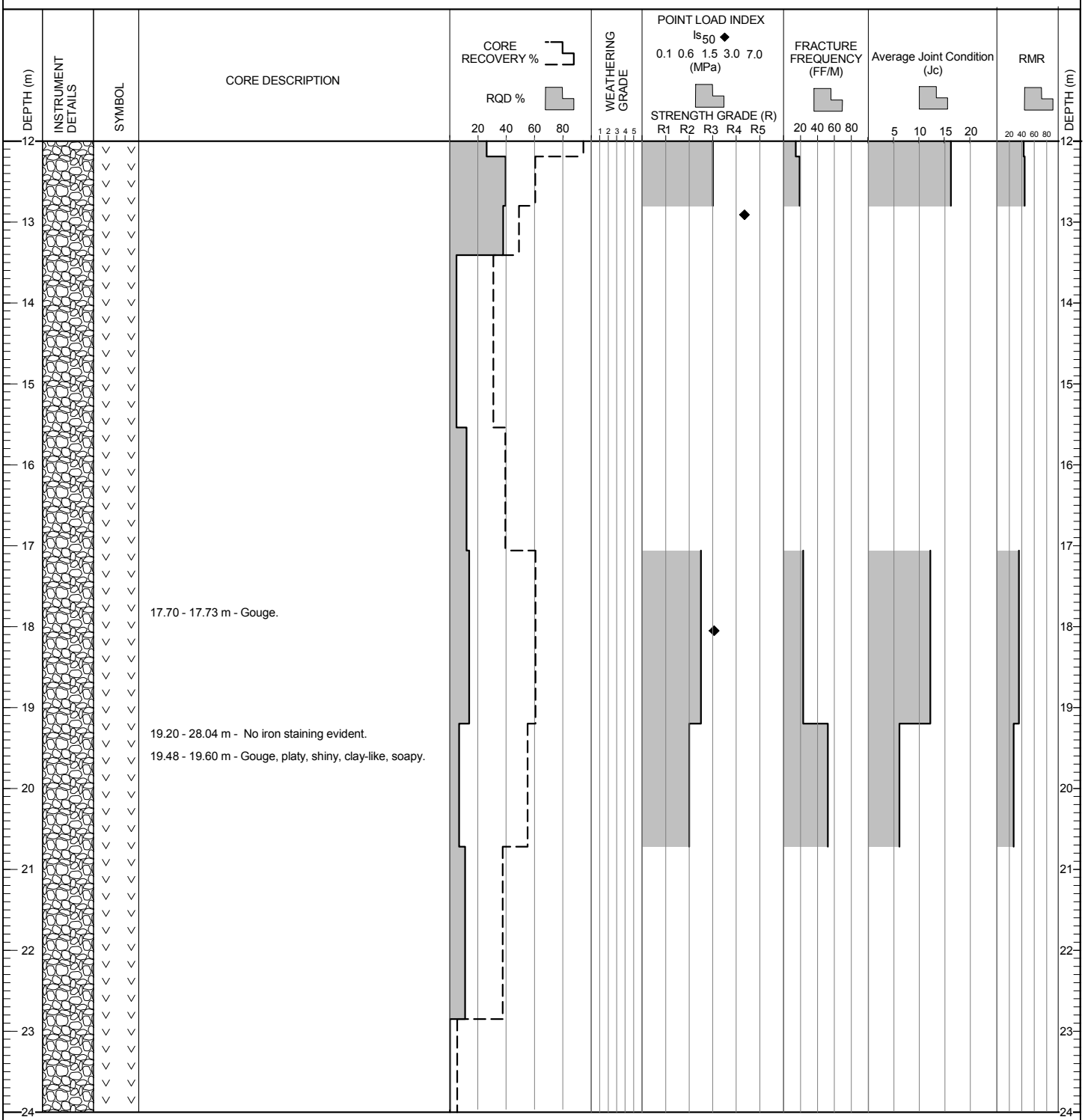
# DRILL HOLE # BH-BGC10-16

LOCATION : STUTTLE GULCH

CO-ORDINATES (m) 459409E - 7100913N
GROUND ELEVATION (m) : 875
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : n/a

DRILL DESIGNATION : CS-1000
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond
CORE SIZE : HQ3
FLUID : Water/Polymer
CASED TO (m): 0

START DATE : 14 Aug 10
FINISH DATE : 19 Aug 10
FINAL DEPTH (m) : 28.0
DEPTH TO TOP OF ROCK (m) : 9.9
LOGGED BY : MM
REVIEWED BY : PQ

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PRINT DATE: 11/16/2011

PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# DRILL HOLE # BH-BGC10-16

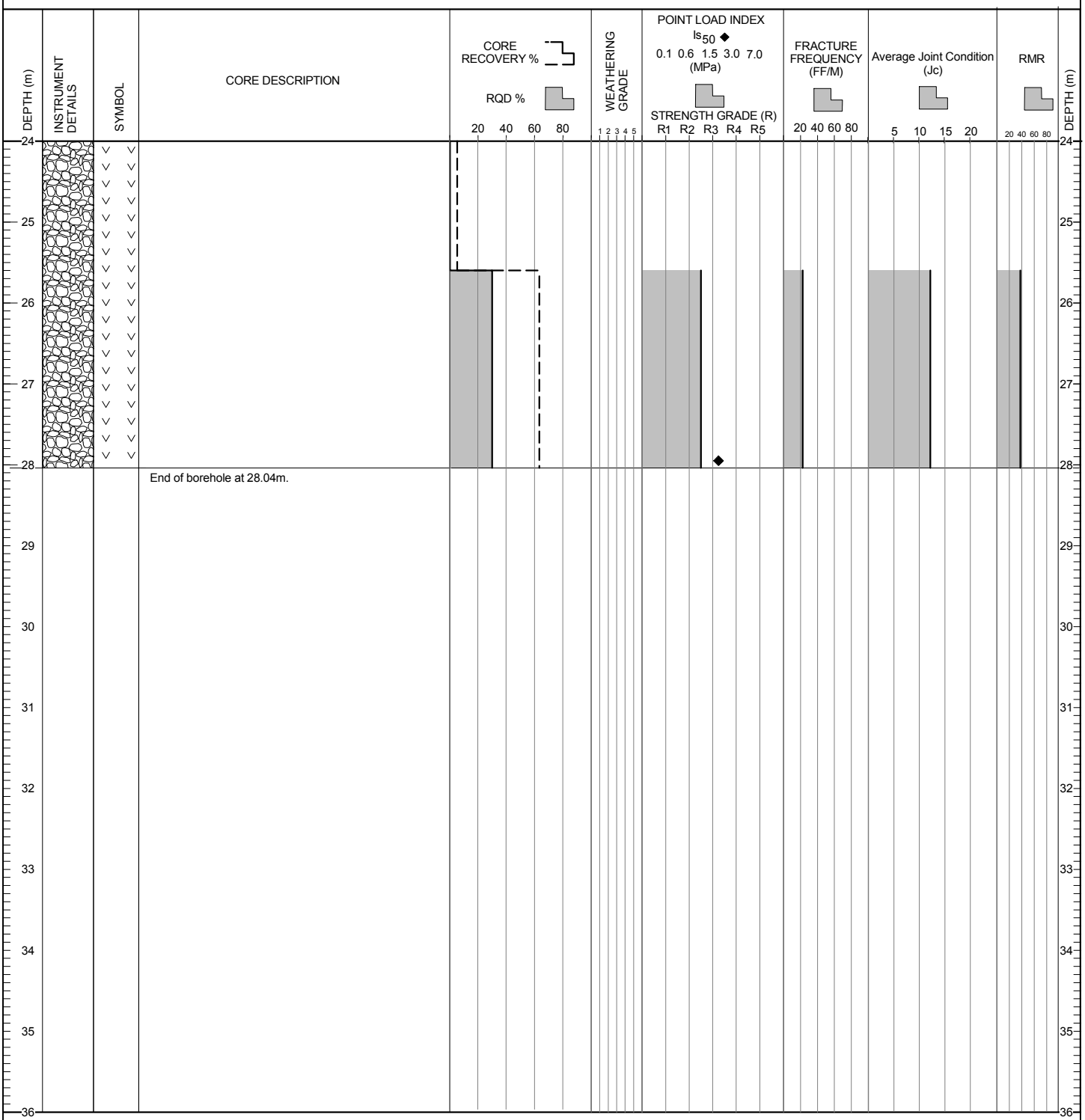
LOCATION : STUTTLE GULCH



CO-ORDINATES (m) 459409E - 7100913N
GROUND ELEVATION (m) : 875
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : n/a

DRILL DESIGNATION : CS-1000
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond
CORE SIZE : HQ3
FLUID : Water/Polymer
CASED TO (m): 0

START DATE : 14 Aug 10
FINISH DATE : 19 Aug 10
FINAL DEPTH (m) : 28.0
DEPTH TO TOP OF ROCK (m) : 9.9
LOGGED BY : MM
REVIEWED BY : PQ

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PRINT DATE: 11/16/2011

EGP (ROCK) EGP_ROCK.GDL BGC.GDT 11/16/11

PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# DRILL HOLE # BH-BGC10-17

LOCATION : DUBLIN GULCH VALLEY BOTTOM



CO-ORDINATES (m): 459222E - 7101020N
GROUND ELEVATION (m) : 836
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : N/A

DRILL DESIGNATION : CS-10
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond
CORE : PQ
FLUID : Water / Polymer
CASED TO (m) : 4.50

START DATE : 13 May 10
FINISH DATE : 14 May 10
FINAL DEPTH (m) : 37.3
DEPTH TO TOP OF ROCK (m) : 7.3
LOGGED BY : TW/ASW
REVIEWED BY : PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | SYMBOL | LITHOLOGIC DESCRIPTION | INSTRUMENT DETAILS | SPT BLOWS PER 150mm |
|---|---|---|---|---|---|---|
| 0 | | | | COBBLES and GRAVEL<br>Medium to coarse, max. particle size= 100mm, elongated to equant, angular to subangular, slightly weathered, R2 to R4, granodiorite, metasedimentary rocks.<br>[FILL] | | |
| 4.3 | | | | BOULDERS and COBBLES<br>Some gravel, max. particle size= 200mm, 60%>75mm, elongated, angular, yellowish brown. Clasts are slightly to moderately weathered, moderately strong to strong (R3 to R4), metasedimentary and quartzite.<br>[FILL] | | |
| 6.1 | | | | GRAVEL (GP)<br>Medium to coarse, trace cobbles, trace boulder, max. particle size= 200 mm, elongated to equant, subangular to angular, brownish grey, clasts are slightly to moderately weathered, moderately strong to strong (R3-R4), granodiorite and quartzite. Fines washed away.<br>[FILL]<br>6.8m - Boulder: size= 200mm, 80%>75mm, elongated to flat, slightly weathered, quartzite. | | |
| 7.3 | | | | Rock encountered at 7.30 m depth.<br>Refer to rock log. | | |

Su - kPa: 40, 80, 120, 160

★ % FINES

● SPT (blows/300mm)

RECOVERY: 20, 40, 60, 80

MOISTURE CONTENT & SPT N: $W_P$% — W% — $W_L$%: 20, 40, 60, 80



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CLIENT: Victoria Gold Corporation

PRINT DATE: 11/16/2011

PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

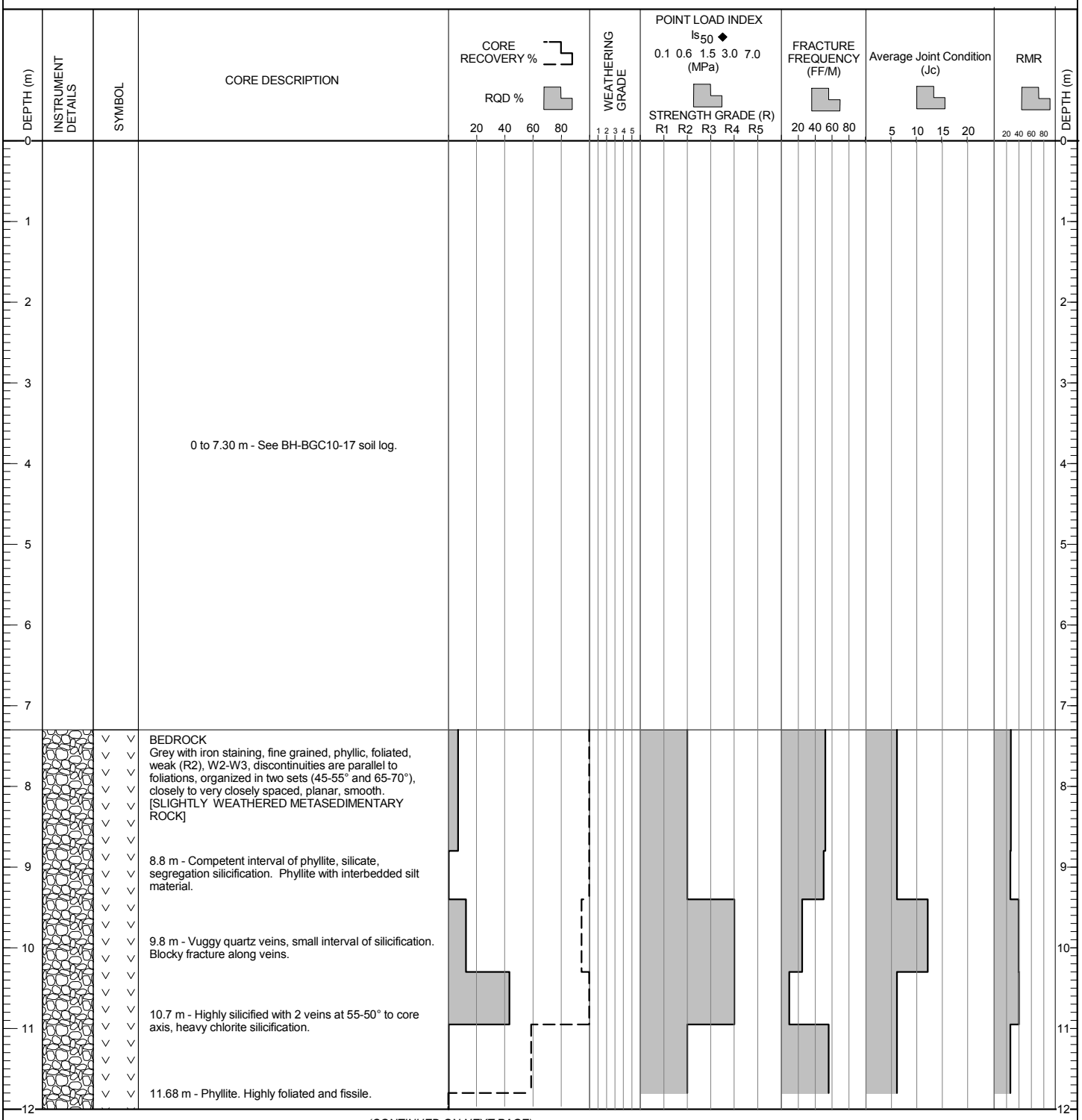
# DRILL HOLE # BH-BGC10-17

LOCATION : DUBLIN GULCH VALLEY BOTTOM

CO-ORDINATES (m) 459222E - 7101020N
GROUND ELEVATION (m) : 836
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : n/a

DRILL DESIGNATION : CS-10
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond
CORE SIZE : PQ
FLUID : Water / Polymer
CASED TO (m): 4.5

START DATE : 13 May 10
FINISH DATE : 14 May 10
FINAL DEPTH (m) : 37.3
DEPTH TO TOP OF ROCK (m) : 7.3
LOGGED BY : TW/ASW
REVIEWED BY : PQ

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PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# DRILL HOLE # BH-BGC10-17

LOCATION : DUBLIN GULCH VALLEY BOTTOM

CO-ORDINATES (m) 459222E - 7101020N
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DATUM : UTM NAD 83
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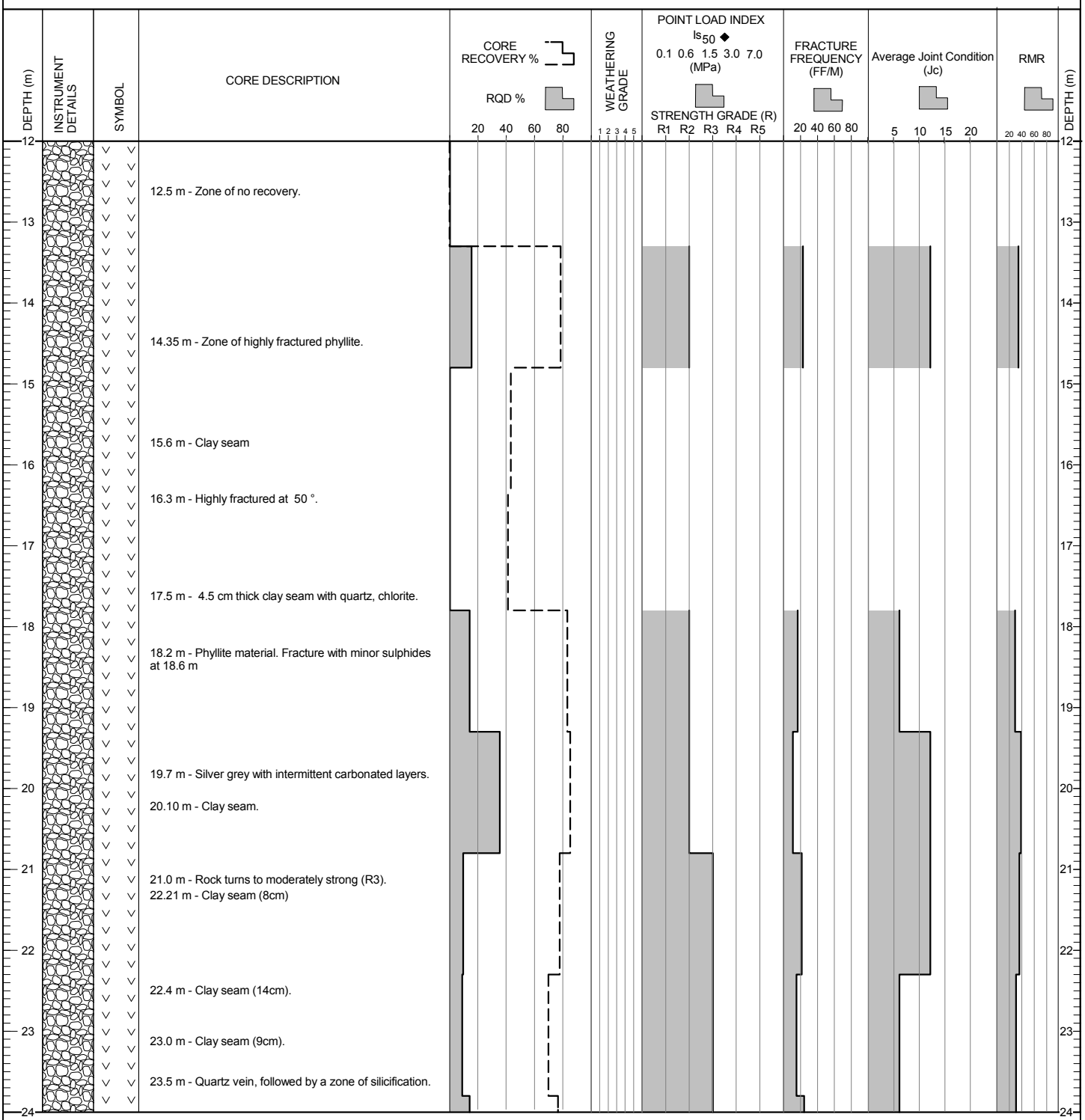


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# DRILL HOLE # BH-BGC10-17

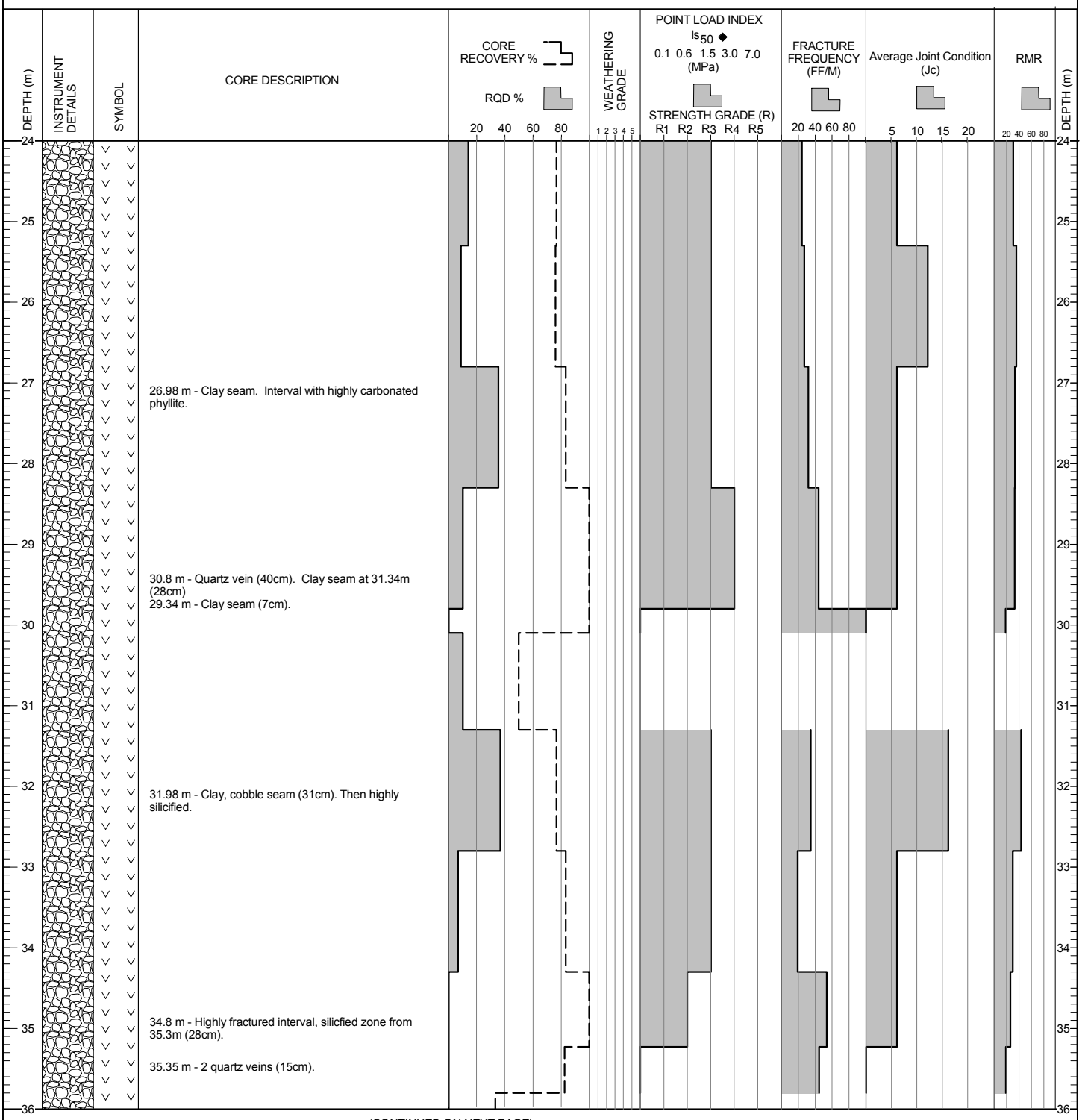
LOCATION : DUBLIN GULCH VALLEY BOTTOM



CO-ORDINATES (m) 459222E - 7101020N
GROUND ELEVATION (m) : 836
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : n/a

DRILL DESIGNATION : CS-10
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond
CORE SIZE : PQ
FLUID : Water / Polymer
CASED TO (m): 4.5

START DATE : 13 May 10
FINISH DATE : 14 May 10
FINAL DEPTH (m) : 37.3
DEPTH TO TOP OF ROCK (m) : 7.3
LOGGED BY : TW/ASW
REVIEWED BY : PQ

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BGC ENGINEERING INC.
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PROJECT NO.: 0792-004

# DRILL HOLE # BH-BGC10-17

LOCATION : DUBLIN GULCH VALLEY BOTTOM

CO-ORDINATES (m) 459222E - 7101020N
GROUND ELEVATION (m) : 836
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : n/a

DRILL DESIGNATION : CS-10
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond
CORE SIZE : PQ
FLUID : Water / Polymer
CASED TO (m): 4.5

START DATE : 13 May 10
FINISH DATE : 14 May 10
FINAL DEPTH (m) : 37.3
DEPTH TO TOP OF ROCK (m) : 7.3
LOGGED BY : TW/ASW
REVIEWED BY : PQ

| DEPTH (m) | INSTRUMENT DETAILS | SYMBOL | CORE DESCRIPTION |
|---|---|---|---|
| 36 | | | |
| 37 | | | 36.4 m - Clay Seam (44cm). Highly weathered. |
| | | | End of borehole at 37.3m.<br>Notes:<br>1. No water level measurement taken due to sloughing into hole. |

CORE RECOVERY %
RQD % 20 40 60 80

WEATHERING GRADE 1 2 3 4 5

POINT LOAD INDEX $Is_{50}$ ◆
0.1 0.6 1.5 3.0 7.0 (MPa)
STRENGTH GRADE (R) R1 R2 R3 R4 R5

FRACTURE FREQUENCY (FF/M) 20 40 60 80

Average Joint Condition (Jc) 5 10 15 20

RMR 20 40 60 80

DEPTH (m)

EGP (ROCK) EGP_ROCK.GDL BGC.GDT 11/16/11

BGC ENGINEERING INC.
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CLIENT: Victoria Gold Corporation

PRINT DATE: 11/16/2011

PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# DRILL HOLE # BH-BGC10-18

LOCATION : STUTTLE GULCH



CO-ORDINATES (m): 459659E - 7099855N
GROUND ELEVATION (m) : 1063
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : N/A

DRILL DESIGNATION : CS-10
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond
CORE : HQ3
FLUID : Water / Polymer
CASED TO (m) : 6.10

START DATE : 22 May 10
FINISH DATE : 23 May 10
FINAL DEPTH (m) : 30.2
DEPTH TO TOP OF ROCK (m) : 4.5
LOGGED BY : LGT/ASW
REVIEWED BY : PQ

DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | SYMBOL | LITHOLOGIC DESCRIPTION | INSTRUMENT DETAILS | SPT BLOWS PER 150mm

Su - kPa: 40, 80, 120, 160
★ % FINES | ● SPT (blows/300mm)
RECOVERY: 20, 40, 60, 80
MOISTURE CONTENT & SPT N: $W_P$% | W% | $W_L$%: 20, 40, 60, 80

0 m

GRAVEL (GW)
Poor recovery. Washed cuttings showed:
Sandy, some silt, some cobbles, trace boulders, max. particle size= 450mm, 20%>75mm, elongated to equant, angular, slightly to moderately weathered (W2-W3), moderately strong to strong (R3-R4), metasedimentary (logged from cut at surface).
[COLLUVIUM/WEATHERED ROCK]

GRAVEL (GP)
Medium to coarse, max. particle size= 55mm, elongated to equant, subangular to angular, (R4), quartzite.

Rock encountered at 4.47 m depth.
Refer to rock log.

1 m 2 m 3 m 4 m 5 m 6 m 7 m 8 m 9 m 10 m 11 m 12 m

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EGP (SOIL) EGP_SOIL.GDL BGC.GDT 11/16/11

PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

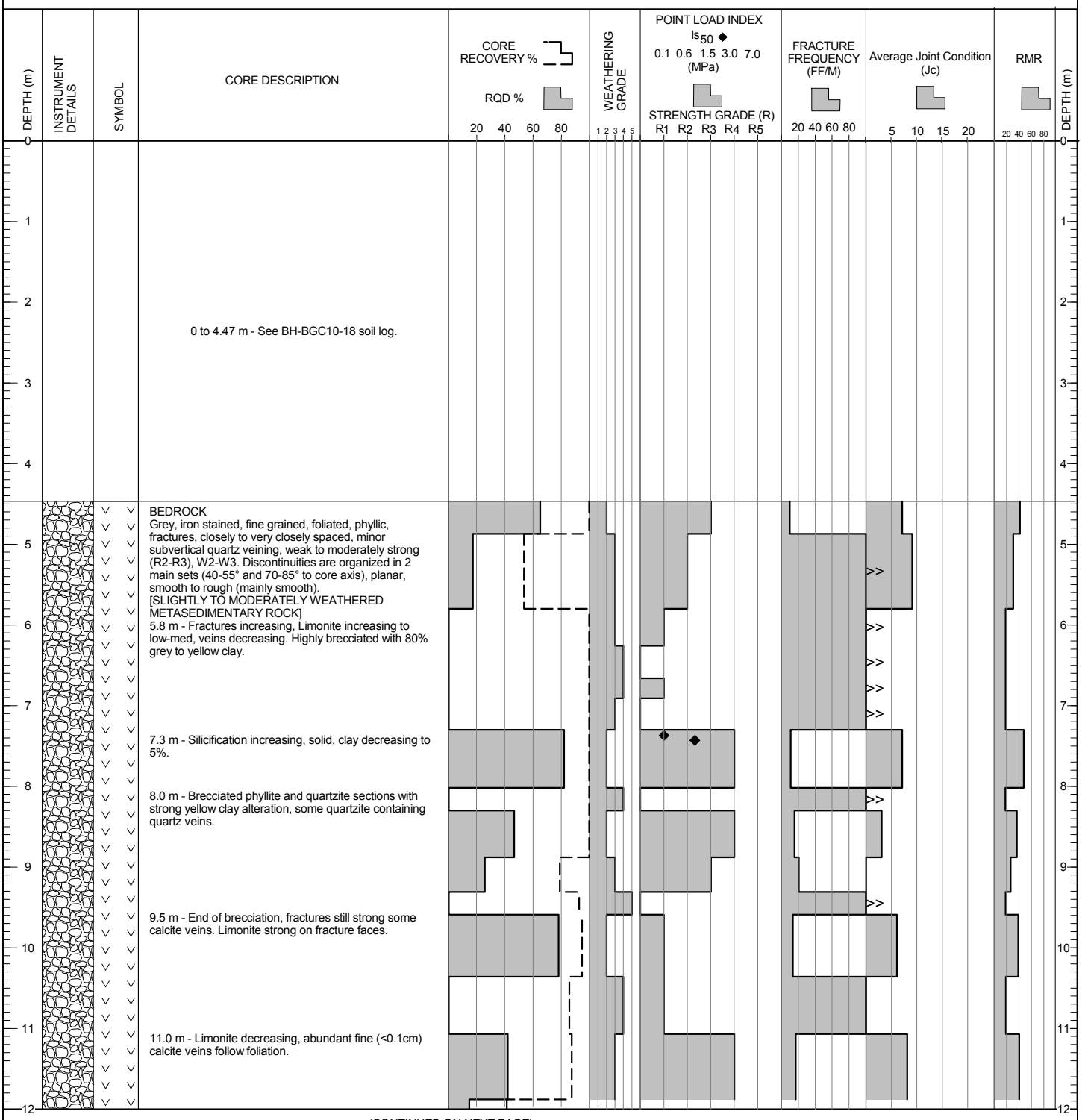
# DRILL HOLE # BH-BGC10-18

LOCATION : STUTTLE GULCH

CO-ORDINATES (m) 459659E - 7099855N
GROUND ELEVATION (m) : 1063
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : n/a

DRILL DESIGNATION : CS-10
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond
CORE SIZE : HQ3
FLUID : Water / Polymer
CASED TO (m): 6.1

START DATE : 22 May 10
FINISH DATE : 23 May 10
FINAL DEPTH (m) : 30.2
DEPTH TO TOP OF ROCK (m) : 4.5
LOGGED BY : LGT/ASW
REVIEWED BY : PQ

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BGC ENGINEERING INC.
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PRINT DATE: 11/16/2011

PROJECT: Eagle Gold Project - Infrastructure
PROJECT NO.: 0792-004

# DRILL HOLE # BH-BGC10-18

LOCATION : STUTTLE GULCH



CO-ORDINATES (m) 459659E - 7099855N
GROUND ELEVATION (m) : 1063
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : n/a

DRILL DESIGNATION : CS-10
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond
CORE SIZE : HQ3
FLUID : Water / Polymer
CASED TO (m): 6.1

START DATE : 22 May 10
FINISH DATE : 23 May 10
FINAL DEPTH (m) : 30.2
DEPTH TO TOP OF ROCK (m) : 4.5
LOGGED BY : LGT/ASW
REVIEWED BY : PQ

DEPTH (m) | INSTRUMENT DETAILS | SYMBOL | CORE DESCRIPTION | CORE RECOVERY % / RQD % (20 40 60 80) | WEATHERING GRADE (1 2 3 4 5) | POINT LOAD INDEX $Is_{50}$ ◆ 0.1 0.6 1.5 3.0 7.0 (MPa) / STRENGTH GRADE (R) R1 R2 R3 R4 R5 | FRACTURE FREQUENCY (FF/M) (20 40 60 80) | Average Joint Condition (Jc) (5 10 15 20) | RMR (20 40 60 80) | DEPTH (m)

12.5 m - Highly brecciated, possible fault zone. Sericite and abundant calcite veining throughout. Black alteration throughout (biotite ksp?).

15.0 m - High amounts of oxides. Veins undulatory and/or fractured.

16.15 m - High amounts of oxides. Veins undulatory and/or fractured.

17.05 m Altered metasediments-phyllite. Oxidized and silicified proximal to fault phyllite.

18.00 m - rubble
18.10 - 18.15 m - clay zone

20.00 m - Clay rubble zone.

22.05 m - Dark grey undulatory veins throughout.

23.0 m - More veining, less silicification. Biotite alteration throughout.

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# DRILL HOLE # BH-BGC10-18

LOCATION : STUTTLE GULCH



CO-ORDINATES (m) 459659E - 7099855N
GROUND ELEVATION (m) : 1063
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : n/a

DRILL DESIGNATION : CS-10
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond
CORE SIZE : HQ3
FLUID : Water / Polymer
CASED TO (m): 6.1

START DATE : 22 May 10
FINISH DATE : 23 May 10
FINAL DEPTH (m) : 30.2
DEPTH TO TOP OF ROCK (m) : 4.5
LOGGED BY : LGT/ASW
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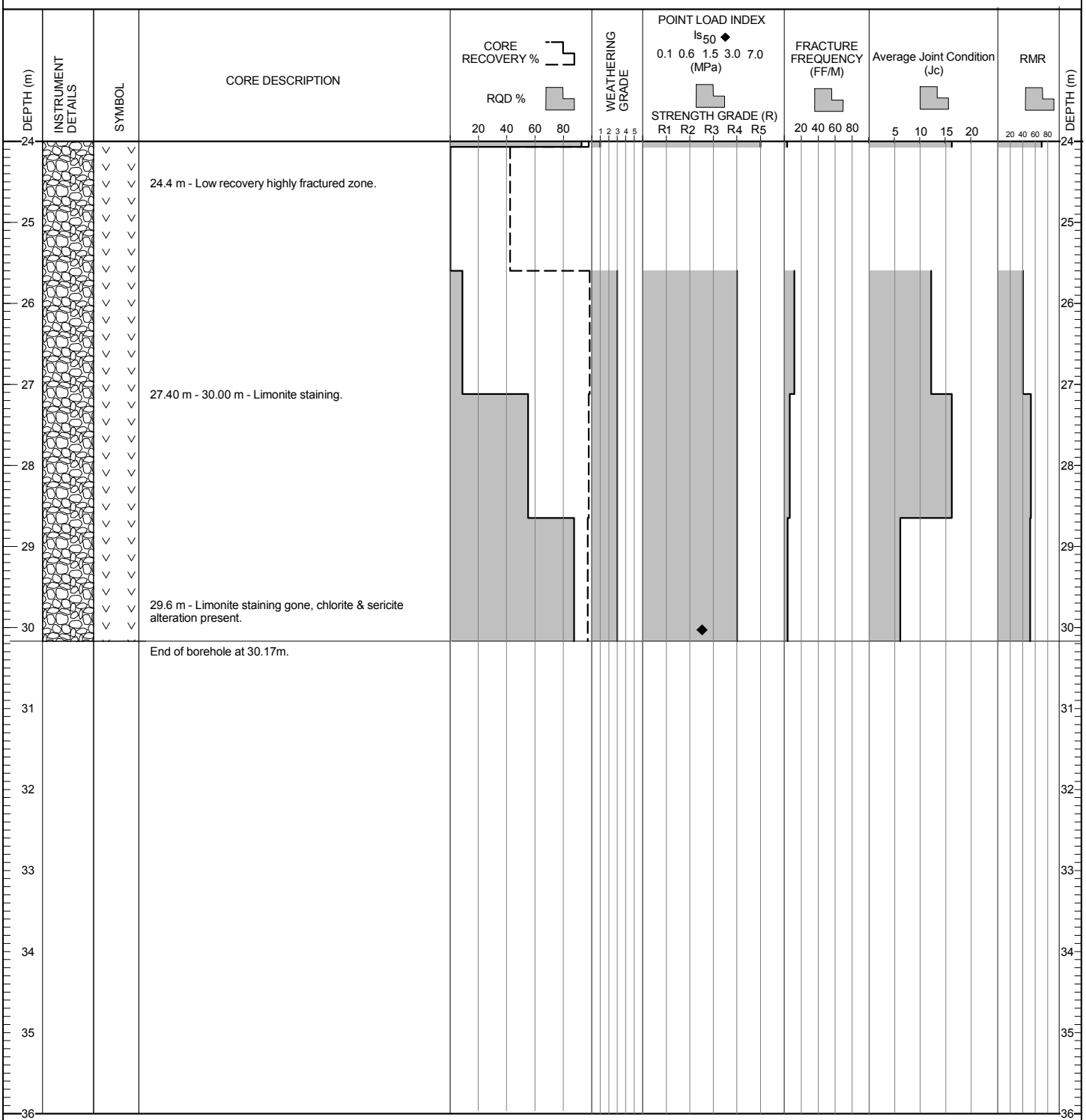


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PRINT DATE: 11/16/2011

EGP (ROCK) EGP_ROCK.GDL BGC.GDT 11/16/11

PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# DRILL HOLE # BH-BGC10-19

LOCATION : EAGLE PUP



CO-ORDINATES (m): 460274E - 7100084N
GROUND ELEVATION (m) : 1104
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : N/A

DRILL DESIGNATION : CS-1000
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond
CORE : HQ3
FLUID : Water/Polymer
CASED TO (m) : 12.20

START DATE : 21 Jun 10
FINISH DATE : 23 Jun 10
FINAL DEPTH (m) : 49.4
DEPTH TO TOP OF ROCK (m) : 12.3
LOGGED BY : MM
REVIEWED BY : PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | SYMBOL | LITHOLOGIC DESCRIPTION | INSTRUMENT DETAILS | SPT BLOWS PER 150mm |
|---|---|---|---|---|---|---|
| 0 | | | | No Recovery. Test hole was executed as condemnation hole and materials washed until rock was reached. Refer to test pit log TP-BGC10-08, for soil description. | | |

Su - kPa: 40, 80, 120, 160
★ % FINES
● SPT (blows/300mm)
RECOVERY: 20, 40, 60, 80
MOISTURE CONTENT & SPT N: $W_P$% — W% — $W_L$%: 20, 40, 60, 80

*(Continued on next page)*

PROJECT: Eagle Gold Project - Infrastructure
PROJECT NO.: 0792-004

# DRILL HOLE # BH-BGC10-19

LOCATION : EAGLE PUP

CO-ORDINATES (m): 460274E - 7100084N
GROUND ELEVATION (m) : 1104
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : N/A

DRILL DESIGNATION : CS-1000
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond
CORE : HQ3
FLUID : Water/Polymer
CASED TO (m) : 12.20

START DATE : 21 Jun 10
FINISH DATE : 23 Jun 10
FINAL DEPTH (m) : 49.4
DEPTH TO TOP OF ROCK (m) : 12.3
LOGGED BY : MM
REVIEWED BY : PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | SYMBOL | LITHOLOGIC DESCRIPTION | INSTRUMENT DETAILS | SPT BLOWS PER 150mm |
|---|---|---|---|---|---|---|
| 12 | | | | Rock encountered at 12.30 m depth.<br>Refer to rock log. | | |

Su - kPa: 40, 80, 120, 160
★ % FINES
● SPT (blows/300mm)
RECOVERY: 20, 40, 60, 80
MOISTURE CONTENT & SPT N: $W_P$% — W% — $W_L$%: 20, 40, 60, 80

13 14 15 16 17 18 19 20 21 22 23 24

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CLIENT: Victoria Gold Corporation
PRINT DATE: 11/16/2011

EGP (SOIL) EGP_SOIL.GDL BGC.GDT 11/16/11

PROJECT: Eagle Gold Project - Infrastructure
PROJECT NO.: 0792-004

# DRILL HOLE # BH-BGC10-19

LOCATION : EAGLE PUP

CO-ORDINATES (m) 460274E - 7100084N
GROUND ELEVATION (m) : 1104
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : n/a

DRILL DESIGNATION : CS-1000
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond
CORE SIZE : HQ3
FLUID : Water/Polymer
CASED TO (m): 12.2

START DATE : 21 Jun 10
FINISH DATE : 23 Jun 10
FINAL DEPTH (m) : 49.4
DEPTH TO TOP OF ROCK (m) : 12.3
LOGGED BY : MM
REVIEWED BY : PQ

| DEPTH (m) | INSTRUMENT DETAILS | SYMBOL | CORE DESCRIPTION |
|---|---|---|---|
| 12 | | | 0 to 12.30 m - See BH-BGC10-19 soil log. |
| 12 | | | BEDROCK<br>Light grey with black flecks throughout, medium grain size, granular, iron staining on joints and on cracks, W3 -W4, extremely weak to moderately strong (R0-R3). Discontinuities are organized in two sets (25-35° and 60-75° to core axis).<br>[HIGHLY TO MODERATELY WEATHERED GRANODIORITE] |
| 16 | | | 16.31 m - Extremely weak to very weak (R0-R1), crumbly material. |
| 17 | | | BEDROCK<br>Light, greyish, black flecks, medium grain size, granular, iron staining on joints and cracks, W2, moderately to very strong (R3-R5). Structures organized in two sets (25-40° and 50-70° to core axis), undulating to stepped, rough.<br>[SLIGHTLY WEATHERED GRANODIORITE] |
| 19 | | | 19.7 m - 50 mm infill of sand with gravel, fault zone? |
| 22 | | | 22.0 - 22.35 m - Moderately weathered zone.<br>22.35 - 22.45 m - Completely weathered zone. |
| 23 | | | 23.5 - 25.2 m - Moderately to highly weathered zone (W2-W3), fractured rock, weak (R2), iron staining on joints and fractures. |
| 24 | | | |

CORE RECOVERY %
RQD % — 20 40 60 80

WEATHERING GRADE — 1 2 3 4 5

POINT LOAD INDEX
$Is_{50}$ ◆
0.1 0.6 1.5 3.0 7.0 (MPa)
STRENGTH GRADE (R)
R1 R2 R3 R4 R5

FRACTURE FREQUENCY (FF/M) — 20 40 60 80

Average Joint Condition (Jc) — 5 10 15 20

RMR — 20 40 60 80

*(CONTINUED ON NEXT PAGE)*

PROJECT: Eagle Gold Project - Infrastructure
PROJECT NO.: 0792-004

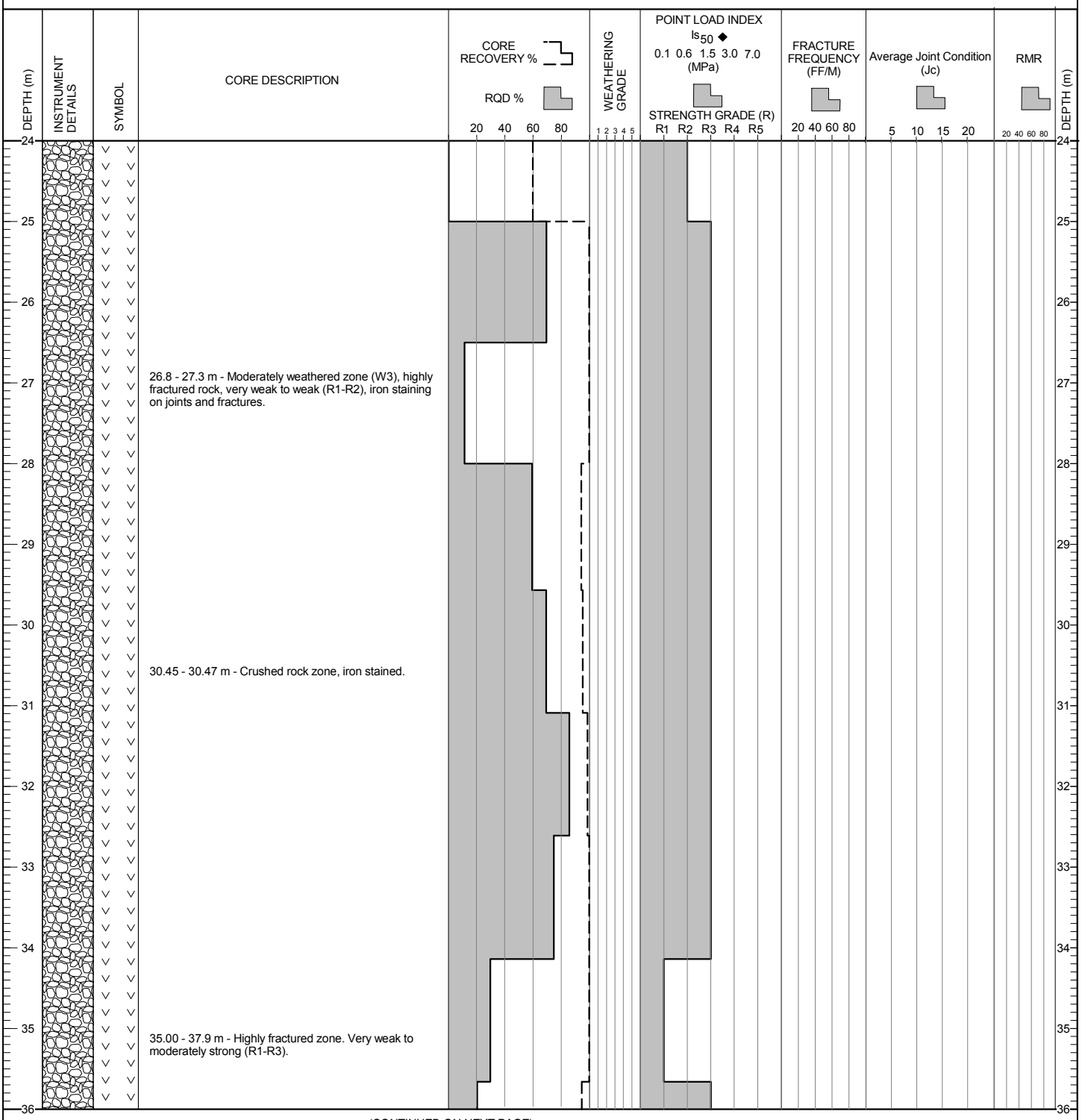
# DRILL HOLE # BH-BGC10-19

LOCATION : EAGLE PUP

CO-ORDINATES (m) 460274E - 7100084N
GROUND ELEVATION (m) : 1104
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : n/a

DRILL DESIGNATION : CS-1000
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond
CORE SIZE : HQ3
FLUID : Water/Polymer
CASED TO (m): 12.2

START DATE : 21 Jun 10
FINISH DATE : 23 Jun 10
FINAL DEPTH (m) : 49.4
DEPTH TO TOP OF ROCK (m) : 12.3
LOGGED BY : MM
REVIEWED BY : PQ

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PROJECT: Eagle Gold Project - Infrastructure
PROJECT NO.: 0792-004

# DRILL HOLE # BH-BGC10-19

LOCATION : EAGLE PUP

CO-ORDINATES (m) 460274E - 7100084N
GROUND ELEVATION (m) : 1104
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : n/a

DRILL DESIGNATION : CS-1000
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond
CORE SIZE : HQ3
FLUID : Water/Polymer
CASED TO (m): 12.2

START DATE : 21 Jun 10
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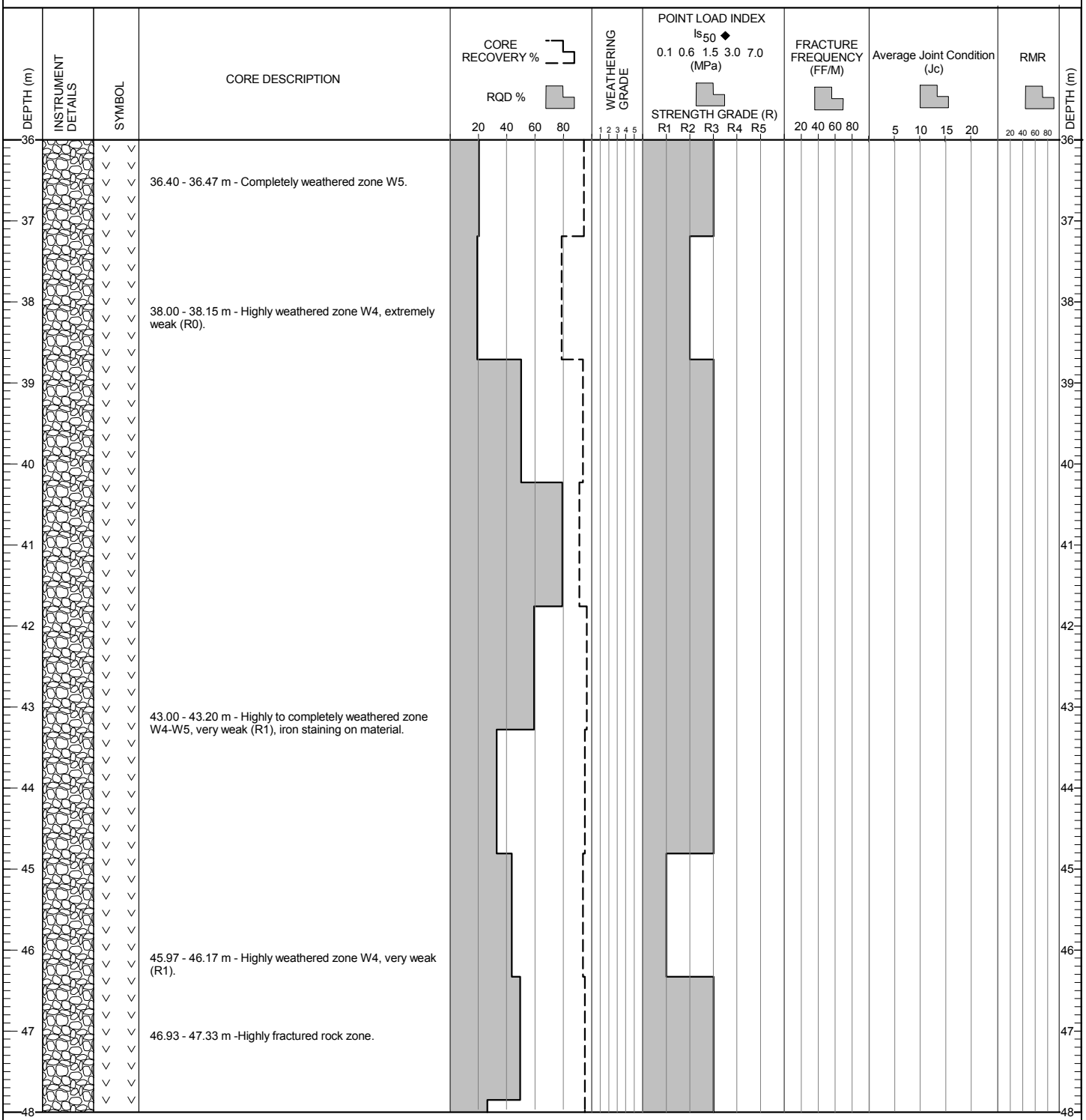
DEPTH TO TOP OF ROCK (m) : 12.3
LOGGED BY : MM
REVIEWED BY : PQ

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# DRILL HOLE # BH-BGC10-19

LOCATION : EAGLE PUP

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GROUND ELEVATION (m) : 1104
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : n/a

DRILL DESIGNATION : CS-1000
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond
CORE SIZE : HQ3
FLUID : Water/Polymer
CASED TO (m): 12.2

START DATE : 21 Jun 10
FINISH DATE : 23 Jun 10
FINAL DEPTH (m) : 49.4
DEPTH TO TOP OF ROCK (m) : 12.3
LOGGED BY : MM
REVIEWED BY : PQ

| DEPTH (m) | INSTRUMENT DETAILS | SYMBOL | CORE DESCRIPTION |
|---|---|---|---|
| 48 | | | 47.85 - 48.00 m - Completely weathered zone W5, extremely weak (R0).<br>48.30 - 48.40 m - Completely weathered zone. |
| 49 | | | End of borehole at 49.38m.<br>Notes:<br>1. Logged material from Condemnation hole - hole was drilled to 130m. |
| 50 | | | |
| 51 | | | |
| 52 | | | |
| 53 | | | |
| 54 | | | |
| 55 | | | |
| 56 | | | |
| 57 | | | |
| 58 | | | |
| 59 | | | |
| 60 | | | |

CORE RECOVERY %
RQD % 20 40 60 80

WEATHERING GRADE 1 2 3 4 5

POINT LOAD INDEX $Is_{50}$ ◆ 0.1 0.6 1.5 3.0 7.0 (MPa)
STRENGTH GRADE (R) R1 R2 R3 R4 R5

FRACTURE FREQUENCY (FF/M) 20 40 60 80

Average Joint Condition (Jc) 5 10 15 20

RMR 20 40 60 80

DEPTH (m)

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EGP (ROCK) EGP_ROCK.GDL BGC.GDT 11/16/11

PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# DRILL HOLE # BH-BGC10-20

LOCATION : EAGLE PUP



CO-ORDINATES (m) 460615E - 7100059N
GROUND ELEVATION (m) : 1209
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : n/a

DRILL DESIGNATION : CS1000
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Diamond Rotary
CORE SIZE : HQ3
FLUID : Water/Polymer
CASED TO (m): 0

START DATE : 18 Aug 10
FINISH DATE : 19 Aug 10
FINAL DEPTH (m) : 15.1
DEPTH TO TOP OF ROCK (m) : 0.0
LOGGED BY : LGT/MRD
REVIEWED BY : PQ

| DEPTH (m) | INSTRUMENT DETAILS | SYMBOL | CORE DESCRIPTION |
|---|---|---|---|
| 0 | | | BEDROCK<br>Grey, iron stained, medium grained, phyllitic, fractures are moderately to closely spaced, moderately to very strong, W1-W2.<br>[NON TO SLIGHTLY WEATHERED GRANODIORITE] |

CORE RECOVERY %
RQD %
20 40 60 80

WEATHERING GRADE
1 2 3 4 5

POINT LOAD INDEX
$Is_{50}$ ◆
0.1 0.6 1.5 3.0 7.0
(MPa)
STRENGTH GRADE (R)
R1 R2 R3 R4 R5

FRACTURE FREQUENCY (FF/M)
20 40 60 80

Average Joint Condition (Jc)
5 10 15 20

RMR
20 40 60 80

DEPTH (m)

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BGC ENGINEERING INC.
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CLIENT: Victoria Gold Corporation

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EGP (ROCK) EGP_ROCK.GDL BGC.GDT 11/16/11

PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# DRILL HOLE # BH-BGC10-20

LOCATION : EAGLE PUP



CO-ORDINATES (m) 460615E - 7100059N
GROUND ELEVATION (m) : 1209
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : n/a

DRILL DESIGNATION : CS1000
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Diamond Rotary
CORE SIZE : HQ3
FLUID : Water/Polymer
CASED TO (m): 0

START DATE : 18 Aug 10
FINISH DATE : 19 Aug 10
FINAL DEPTH (m) : 15.1
DEPTH TO TOP OF ROCK (m) : 0.0
LOGGED BY : LGT/MRD
REVIEWED BY : PQ

| DEPTH (m) | INSTRUMENT DETAILS | SYMBOL | CORE DESCRIPTION | CORE RECOVERY % / RQD % | WEATHERING GRADE | POINT LOAD INDEX $Is_{50}$ ◆ 0.1 0.6 1.5 3.0 7.0 (MPa) / STRENGTH GRADE (R) | FRACTURE FREQUENCY (FF/M) | Average Joint Condition (Jc) | RMR | DEPTH (m) |
|---|---|---|---|---|---|---|---|---|---|---|
| 12–15 | | | End of borehole at 15.09m. | 20 40 60 80 | 1 2 3 4 5 | R1 R2 R3 R4 R5 | 20 40 60 80 | 5 10 15 20 | 20 40 60 80 | 12–24 |

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CLIENT: Victoria Gold Corporation

PRINT DATE: 11/16/2011

EGP (ROCK) EGP_ROCK.GDL BGC.GDT 11/16/11

PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# DRILL HOLE # BH-BGC10-22

LOCATION : DUBLIN GULCH VALLEY BOTTOM

CO-ORDINATES (m): 458391E - 7101098N
GROUND ELEVATION (m) : 793
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : N/A

DRILL DESIGNATION : C407 Auger
DRILLING CONTRACTOR : Core Drilling
DRILL METHOD : Solid/Hollow Stem Auger
CORE : 4'1/4 aug
FLUID : None
CASED TO (m) : 0.00

START DATE : 10 May 10
FINISH DATE : 11 May 10
FINAL DEPTH (m) : 19.0
DEPTH TO TOP OF ROCK (m) :
LOGGED BY : TW/LGT/ASW
REVIEWED BY : PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | LITHOLOGIC DESCRIPTION | SPT BLOWS PER 150mm |
|---|---|---|---|---|
| 0 | G | G1 | SAND (SM) and SILT<br>Trace clay, low plasticity, greyish brown, moist, homogeneous, no cementation, rapid dilatancy.<br>[FILL] | |
| 1 | G | G2 | | |
| | SPT | SPT1&2 | SILT (ML)<br>Some sand, trace clay, non plastic, grey, moist, homogeneous, no cementation, rapid dilatancy.<br>[FILL] | |
| 2 | G | G3 | SAND (SM) and SILT<br>Greyish brown, wet, homogeneous, low plasticity, no cementation, low dry strength, rapid dilatancy, some roots.<br>[FILL] | |
| | G | G4 | | |
| 3 | SPT | SPT3 | 3.0 m - Trace gravel, dark bluish grey to orangish brown, gravel is angular. | 2<br>3<br>3 |
| | G | G5 | | |
| 4 | G | G6 | GRAVEL (GW) and SAND<br>Trace silt, well graded, max. particle size= 50 mm, subrounded to subangular, brown, moist, homogeneous.<br>[FILL] | |
| | SPT | SPT4&5 | SAND (SW)<br>Gravelly, silty, well graded, max. particle size= 50 mm, subrounded to subangular, brown, moist, homogeneous.<br>[FILL] | |
| 5 | G | G7 | | |
| 6 | SPT | SPT6 | | 2<br>3<br>11 |
| | G | G9 | | |
| 7 | SPT | SPT7 | SAND (SM)<br>Silty, some gravel, well graded, max particle size: 5 mm, subrounded to subangular, brown, moist, homogeneous.<br>[FILL] | 6<br>7<br>6 |
| 8 | G | G10 | | |
| 9 | SPT | SPT8 | 9.0 m - Max particle size: 3 mm, subrounded, wet, homogeneous. | 4<br>7<br>10 |
| | G | G11 | | |
| | G | G8 | SAND (SM) and SILT<br>Trace gravel, gap graded, max. particle size= 15 mm, subangular, non plastic, greyish brown, moist, homogeneous.<br>[FILL] | |
| 10 | G | G12 | 9.9 m - Fine to coarse, well graded, max. particle size= 20 mm | |
| | SPT | SPT9 | 10.5 m - Some gravel, dense, max. particle size=30 mm, subangular, greyish brown, homogeneous. | 7<br>10<br>27 |
| 11 | G | G13 | | |
| 12 | | | | |

Su - kPa: 40, 80, 120, 160

★ % FINES

● SPT (blows/300mm)

RECOVERY: 20, 40, 60, 80

MOISTURE CONTENT & SPT N: $W_P$% W% $W_L$%: 20, 40, 60, 80

*(Continued on next page)*

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PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# DRILL HOLE # BH-BGC10-22

LOCATION : DUBLIN GULCH VALLEY BOTTOM

CO-ORDINATES (m): 458391E - 7101098N
GROUND ELEVATION (m) : 793
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : N/A

DRILL DESIGNATION : C407 Auger
DRILLING CONTRACTOR : Core Drilling
DRILL METHOD : Solid/Hollow Stem Auger
CORE : 4'1/4 aug
FLUID : None
CASED TO (m) : 0.00

START DATE : 10 May 10
FINISH DATE : 11 May 10
FINAL DEPTH (m) : 19.0
DEPTH TO TOP OF ROCK (m) :
LOGGED BY : TW/LGT/ASW
REVIEWED BY : PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | LITHOLOGIC DESCRIPTION | INSTRUMENT DETAILS | SPT BLOWS PER 150mm |
|---|---|---|---|---|---|
| 12 | | | 12.0 m - Sand is fine to medium, gravelly, max. particle size= 15 mm, subrounded to subangular, orangish brown, homogeneous. | | |
| | G | G14 | | | |
| 13 | | | | | |
| | SPT | SPT11 | 13.5 m - Sand is fine, some gravel, gap graded, compact, max. particle size= 30 mm, subrounded to subangular, orange brown, homogeneous. | | 3 5 12 |
| 14 | G | G15 | | | |
| 15 | SPT | SPT12 | SILT (ML)<br>Clayey, some sand, trace gravel, max. particle size= 40 mm, subrounded, grey brown, wet, no cementation, rapid dilatancy.<br>[FILL] | | 11 24 37 |
| | G | G16 | | | |
| 16 | G | G17 | SAND (SW)<br>Gravelly, fine, trace silt, well graded, max. particle size= 10 mm, subangular, yellowish brown, moist, homogeneous.<br>[FILL] | | |
| | SPT | SPT13 | GRAVEL (GW)<br>Sandy, trace silt, well graded, dense, max. particle size= 50mm, gravel is subrounded to subangular, orange brown, dry, homogeneous. Clasts are metasedimentary, dark brown to white in colour.<br>[FILL] | | 17 21 26 |
| 17 | | | | | |
| 18 | SPT | SPT14 | | | 35 40 |
| | SPT | SPT15 | 18.5 m - Clasts are highly weathered, dark grey blackish with silvery sheen, fine texture, foliated, extremely weak, slate like, metasedimentary. | | 56 43 R |
| 19 | | | End of borehole at 18.95m. | | |
| 20 | | | Notes:<br>1. This log comprises data from 'BH-22-1', 'BH-22-2', and 'BH22-3'<br>2. Where there was data overlap, an average description was used.<br>3. UTM coordinates and depths for each hole are as follows.<br>BH-22-1: 458385E 7101103N elev. 789m<br>Drilled: 0m to 16.5m<br>BH-22-2: 458382E 7101104N elev. 789m<br>Drilled: 0m to 4.95m<br>BH-22-3: 458385E 7101102N elev. 789m<br>Drilled: 4.5m to 18.95m<br>4. End of hole due to refusal. | | |
| 21 | | | | | |
| 22 | | | | | |
| 23 | | | | | |
| 24 | | | | | |

Su - kPa: 40, 80, 120, 160

★ % FINES

● SPT (blows/300mm)

RECOVERY: 20, 40, 60, 80

MOISTURE CONTENT & SPT N: $W_P$% — W% — $W_L$%: 20, 40, 60, 80

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PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# DRILL HOLE # BH-BGC10-23

LOCATION : DUBLIN GULCH VALLEY BOTTOM

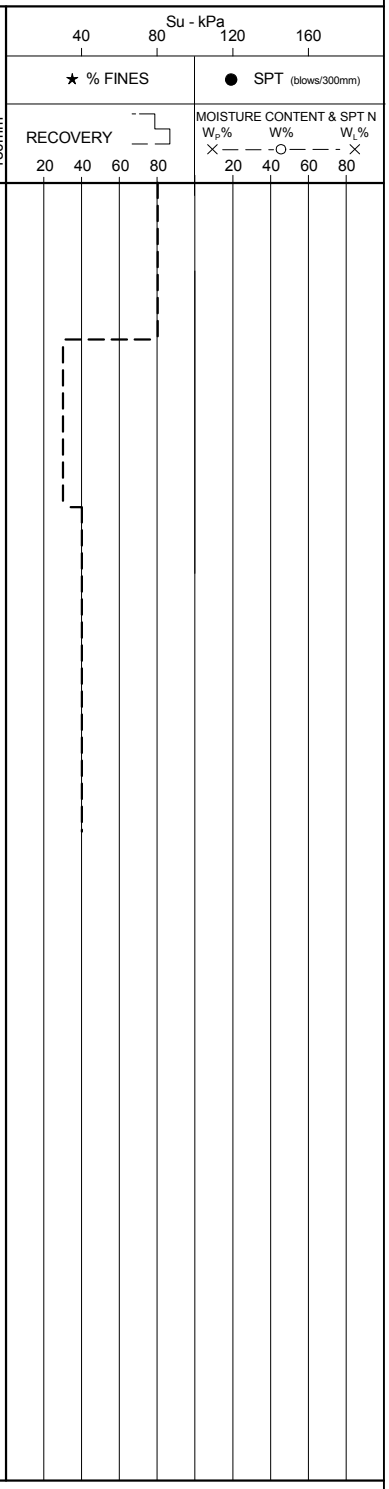


CO-ORDINATES (m): 459315E - 7101055N
GROUND ELEVATION (m) : 849
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : N/A

DRILL DESIGNATION : C407 Auger
DRILLING CONTRACTOR : Core Drilling
DRILL METHOD : Solid Stem Auger
CORE : 4'1/4
FLUID : None
CASED TO (m) : 0.00

START DATE : 16 May 10
FINISH DATE : 16 May 10
FINAL DEPTH (m) : 6.0
DEPTH TO TOP OF ROCK (m) :
LOGGED BY : LGT
REVIEWED BY : PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | SYMBOL | LITHOLOGIC DESCRIPTION | INSTRUMENT DETAILS | SPT BLOWS PER 150mm |
|---|---|---|---|---|---|---|
| 0 | G | G1 | | GRAVEL (GW)<br>Fine to medium, sandy, well graded, loose, max. particle size= 35 mm, elongated to equant, subangular to angular, light greyish brown, odourless, moist, homogeneous, no cementation.<br>[FILL] | | |
| 1 | | | | | | |
| 2 | G | G2 | | | | |
| 3 | | | | SAND (SW)<br>Gravelly, well graded. Max. particle size= 68 mm, elongated to equant, subangular to angular, light greyish brown, wet, homogeneous, no cementation, clasts are a mix of granodiorite/metasedimentary, fresh to highly weathered, weak to strong (R2 to R4).<br>[FILL] | | |
| 4 | G | G3 | | | | |
| 5 | G | G4 | | | | |
| 6 | | | | End of borehole at 6.0m.<br>Notes:<br>1. Hollow stem auger tried at 6.0 m without success<br>2. Solid stem rock bit broke at 6.2 m: refusal<br>3. Two other locations were tried in vicinity without success | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |

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PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# DRILL HOLE # BH-BGC10-24

LOCATION : DUBLIN GULCH VALLEY BOTTOM



CO-ORDINATES (m): 458500E - 7101012N
GROUND ELEVATION (m) : 800
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : N/A

DRILL DESIGNATION : C407 Auger
DRILLING CONTRACTOR : Core Drilling
DRILL METHOD : Solid/Hollow Stem Auger
CORE : 4'1/4
FLUID : None
CASED TO (m) : 6.00

START DATE : 14 May 10
FINISH DATE : 15 May 10
FINAL DEPTH (m) : 16.2
DEPTH TO TOP OF ROCK (m) :
LOGGED BY : LGT
REVIEWED BY : PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | LITHOLOGIC DESCRIPTION | SPT BLOWS PER 150mm |
|---|---|---|---|---|
| 0 | | | GRAVEL (GW)<br>Fine to medium, sandy, well graded, loose, elongated, angular, pinkish grey, moist, homogeneous, no cementation.<br>*logging from cuttings. | |
| 1 | | | SILT (ML)<br>Trace sand, trace fine gravel, trace clay, low plasticity, very soft, grey, odourless, wet, high dry strength, rapid dilatancy.<br>[FILL] | |
| 1 | | SPT1 | | 0<br>0<br>1 |
| 3 | | SPT2 | | 1<br>1<br>1 |
| 4 | G | G1 | | |
| 4 | | SPT3 | 4.5 m - Dark grey, speckled black, moderately spaced (10 cm) thin beds of decomposing organics. | 3<br>3<br>5 |
| 5 | | | No Recovery. | |
| 6 | | SPT4 | SAND (SW)<br>Gravelly, well graded, dense, flat to elongated, angular to sub-angular, brown, moist, homogeneous, no cementation.<br>[FILL] | 10<br>R |
| 6 | G | G2 | 6.12 m - Fine gravel, chipped into thin grey flakes. | |
| 7 | | | SILT (ML)<br>Sandy, fine, trace gravel, max. particle size= 20 mm, low plasticity, brown, odourless, low to medium dry strength, rapid dilatancy.<br>[FILL] | |
| 8 | | | SAND (SM)<br>Silty, trace fine gravel, max. particle size= 10 mm, brown, wet, clasts are elongated, sub-rounded to sub-angular, moderate dry strength<br>[FILL] | |
| 8 | G | G3 | | |
| 10 | G | G4 | | |
| 11 | | | SAND (SP)<br>Trace to some silt, poorly graded, orangish brown, wet, homogeneous, non cemented, rapid dilatancy, low dry strength.<br>[FILL] | |
| 11 | G | G5 | | |
| 12 | | | | |

INSTRUMENT DETAILS

Su - kPa: 40, 80, 120, 160

★ % FINES

● SPT (blows/300mm)

RECOVERY: 20, 40, 60, 80

MOISTURE CONTENT & SPT N
$W_P$% W% $W_L$%
20, 40, 60, 80

*(Continued on next page)*

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EGP (SOIL) EGP_SOIL.GDL BGC.GDT 11/16/11

PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# DRILL HOLE # BH-BGC10-24

LOCATION : DUBLIN GULCH VALLEY BOTTOM

CO-ORDINATES (m): 458500E - 7101012N
GROUND ELEVATION (m) : 800
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : N/A

DRILL DESIGNATION : C407 Auger
DRILLING CONTRACTOR : Core Drilling
DRILL METHOD : Solid/Hollow Stem Auger
CORE : 4'1/4
FLUID : None
CASED TO (m) : 6.00

START DATE : 14 May 10
FINISH DATE : 15 May 10
FINAL DEPTH (m) : 16.2
DEPTH TO TOP OF ROCK (m) :
LOGGED BY : LGT
REVIEWED BY : PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | SYMBOL | LITHOLOGIC DESCRIPTION | INSTRUMENT DETAILS | SPT BLOWS PER 150mm |
|---|---|---|---|---|---|---|
| 12 | | | | | | |
| 13 | G | G6 | | | | |
| 14 | | | | SAND (SM)<br>Silty, some gravel, trace clay, well graded, max. particle size= 10 mm, medium plasticity, brown, wet, homogeneous, rapid dilatancy, low to moderate dry strength.<br>[FILL] | | |
| 15 | G | G7 | | | | |
| 16 | G | G8 | | | | |
| 17 | G | G9 | | End of borehole at 16.2m.<br>Notes:<br>1. Wall of auger hole collapsing.<br>2. Backfilled with cuttings and bentonite cap.<br>3. Hollow stem to 6.0 m, solid stem to 16.2 m. | | |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |
| 23 | | | | | | |
| 24 | | | | | | |

Su - kPa
40 80 120 160
★ % FINES
● SPT (blows/300mm)
RECOVERY
20 40 60 80
MOISTURE CONTENT & SPT N
$W_P$% W% $W_L$%
20 40 60 80

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CLIENT: Victoria Gold Corporation

PRINT DATE: 11/16/2011

EGP (SOIL) EGP_SOIL.GDL BGC.GDT 11/16/11

PROJECT: Eagle Gold Project - Infrastructure
PROJECT NO.: 0792-004

# DRILL HOLE # BH-BGC10-AG3

LOCATION : ANN GULCH

CO-ORDINATES (m): 459665E - 7101971N
GROUND ELEVATION (m) : 801
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : N/A

DRILL DESIGNATION : CS-10
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond
CORE : HQ3
FLUID : Water
CASED TO (m) : 12.88

START DATE : 25 May 10
FINISH DATE : 25 May 10
FINAL DEPTH (m) : 16.7
DEPTH TO TOP OF ROCK (m) : 11.8
LOGGED BY : LGT/ASW
REVIEWED BY : PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | SYMBOL | LITHOLOGIC DESCRIPTION | INSTRUMENT DETAILS | SPT BLOWS PER 150mm |
|---|---|---|---|---|---|---|
| 0 | | | | SILT (OL)<br>Organic, trace fine to coarse sand, trace clay, low plastic, dark brown, moist, homogeneous, some roots and rootlets. | | |
| | | | | SAND (SW)<br>Some silt, some gravel, trace cobbles, max. particle size= 450mm, <5% > 75mm, clasts are flat to equant, angular, R3 to R4, metasedimentary, brown, odourless, moist to wet, homogeneous, no cementation.<br>No recovery: description from cut slope by pad. | | |
| 5 | | | | Low recovery shows:<br>GRAVEL (GP)<br>Medium to coarse, max. particle size= 70mm, elongated to equant, angular to subangular, brownish to bluish grey, weak to strong (R2 to R4).<br>[HIGHLY WEATHERED METASEDIMENTARY ROCK] | | |
| 8 | | | | No recovery | | |
| 10 | | | | GRAVEL (GP)<br>Medium to coarse, max. particle size= 70mm, elongated to equant, angular to subangular, brownish to bluish grey, R2 to R4. Low recovery.<br>[HIGHLY WEATHERED METASEDIMENTARY ROCK] | | |
| 12 | | | | Rock encountered at 11.80 m depth.<br>Refer to rock log. | | |

Su - kPa: 40, 80, 120, 160
★ % FINES
● SPT (blows/300mm)
RECOVERY: 20, 40, 60, 80
MOISTURE CONTENT & SPT N: $W_P$% W% $W_L$%: 20, 40, 60, 80



BGC ENGINEERING INC.
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CLIENT: Victoria Gold Corporation
PRINT DATE: 11/16/2011

PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# DRILL HOLE # BH-BGC10-AG3

LOCATION : ANN GULCH



CO-ORDINATES (m) 459665E - 7101971N
GROUND ELEVATION (m) : 801
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : n/a

DRILL DESIGNATION : CS-10
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond
CORE SIZE : HQ3
FLUID : Water
CASED TO (m): 12.88

START DATE : 25 May 10
FINISH DATE : 25 May 10
FINAL DEPTH (m) : 16.7
DEPTH TO TOP OF ROCK (m) : 11.8
LOGGED BY : LGT/ASW
REVIEWED BY : PQ

| DEPTH (m) | INSTRUMENT DETAILS | SYMBOL | CORE DESCRIPTION | CORE RECOVERY % / RQD % (20 40 60 80) | WEATHERING GRADE (1 2 3 4 5) | POINT LOAD INDEX $Is_{50}$ ◆ 0.1 0.6 1.5 3.0 7.0 (MPa) / STRENGTH GRADE (R) R1 R2 R3 R4 R5 | FRACTURE FREQUENCY (FF/M) (20 40 60 80) | Average Joint Condition (Jc) (5 10 15 20) | RMR (20 40 60 80) | DEPTH (m) |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | | | | | | | | | | 0 |
| 1 | | | | | | | | | | 1 |
| 2 | | | | | | | | | | 2 |
| 3 | | | | | | | | | | 3 |
| 4 | | | | | | | | | | 4 |
| 5 | | | | | | | | | | 5 |
| 6 | | | 0 to 11.80 m - See BH-BGC10-AG3 soil log. | | | | | | | 6 |
| 7 | | | | | | | | | | 7 |
| 8 | | | | | | | | | | 8 |
| 9 | | | | | | | | | | 9 |
| 10 | | | | | | | | | | 10 |
| 11 | | | | | | | | | | 11 |
| 12 | | V V | BEDROCK | | | | | | | 12 |

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EGP (ROCK) EGP_ROCK.GDL BGC.GDT 11/16/11

PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# DRILL HOLE # BH-BGC10-AG3

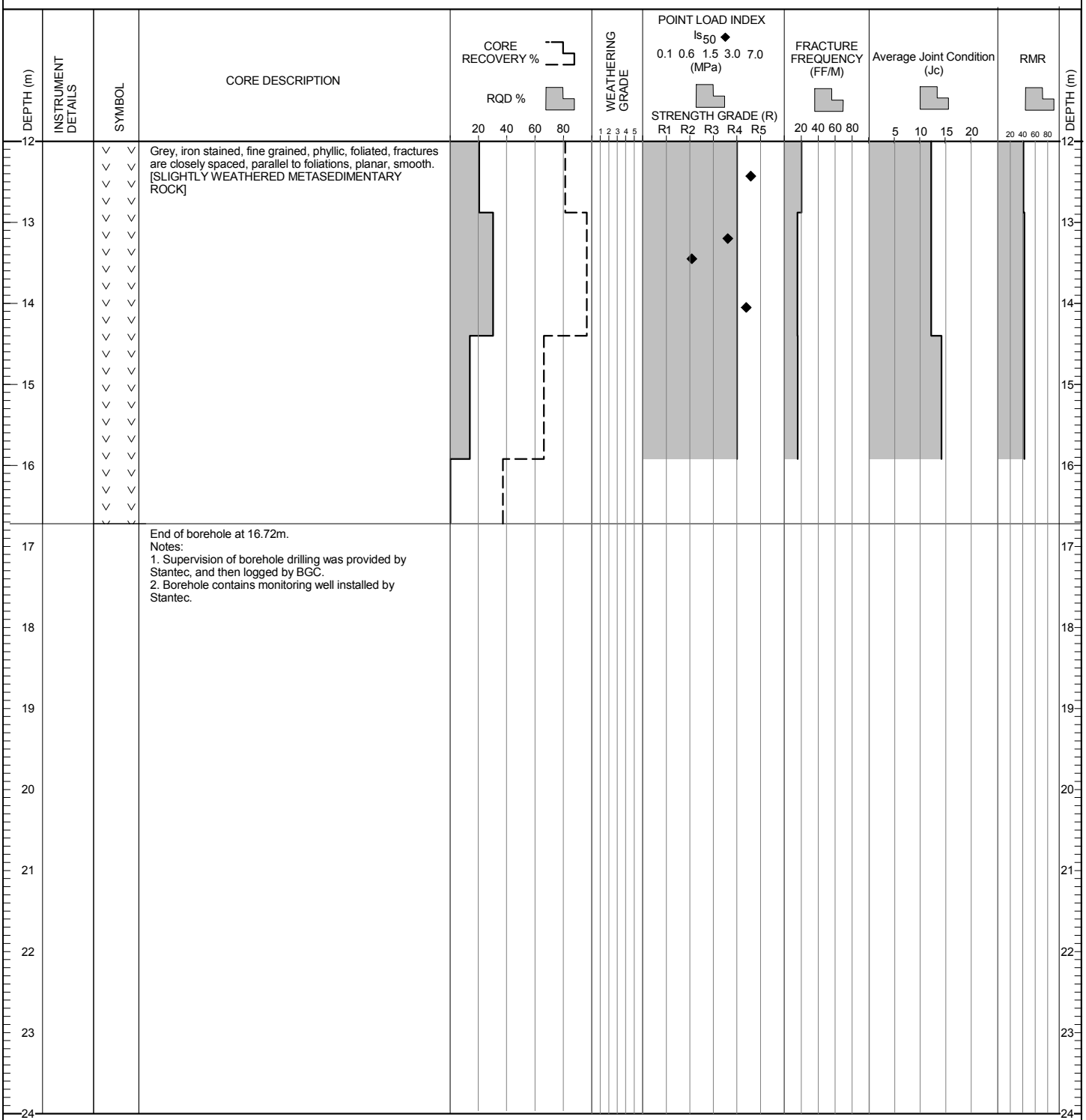
LOCATION : ANN GULCH

CO-ORDINATES (m) 459665E - 7101971N
GROUND ELEVATION (m) : 801
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : n/a

DRILL DESIGNATION : CS-10
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond
CORE SIZE : HQ3
FLUID : Water
CASED TO (m): 12.88

START DATE : 25 May 10
FINISH DATE : 25 May 10
FINAL DEPTH (m) : 16.7
DEPTH TO TOP OF ROCK (m) : 11.8
LOGGED BY : LGT/ASW
REVIEWED BY : PQ

| DEPTH (m) | INSTRUMENT DETAILS | SYMBOL | CORE DESCRIPTION |
|---|---|---|---|
| 12 | | | Grey, iron stained, fine grained, phyllic, foliated, fractures are closely spaced, parallel to foliations, planar, smooth. [SLIGHTLY WEATHERED METASEDIMENTARY ROCK] |
| 16 | | | End of borehole at 16.72m.<br>Notes:<br>1. Supervision of borehole drilling was provided by Stantec, and then logged by BGC.<br>2. Borehole contains monitoring well installed by Stantec. |

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PRINT DATE: 11/16/2011

EGP (ROCK) EGP_ROCK.GDL BGC.GDT 11/16/11

PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# DRILL HOLE # BH-BGC10-AG5

LOCATION : ANN GULCH



CO-ORDINATES (m): 459551E - 7101626N
GROUND ELEVATION (m) : 934
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : N/A

DRILL DESIGNATION : CS-10
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond
CORE : HQ3
FLUID : Water
CASED TO (m) :

START DATE : 26 May 10
FINISH DATE : 26 May 10
FINAL DEPTH (m) : 16.2
DEPTH TO TOP OF ROCK (m) : 0.9
LOGGED BY : LGT
REVIEWED BY : PQ

| DEPTH (m) | SAMPLE TYPE | SAMPLE NO. | SYMBOL | LITHOLOGIC DESCRIPTION | INSTRUMENT DETAILS | SPT BLOWS PER 150mm |
|---|---|---|---|---|---|---|
| 0 | | | | ORGANICS (OL)<br>Trace sand, trace silt, decomposing pine needles, moss, roots, and rootlets. | | |
| | | | | SAND (SM)<br>Silty, some gravel, max. particle size= 50mm, elongated to equant, angular, brown, wet, R3 to R4, W2 to W3, metasedimentary. Frozen (Nbn). | | |
| 1 | | | | Rock encountered at 0.90 m depth.<br>Refer to rock log. | | |

Su - kPa: 40, 80, 120, 160

★ % FINES

● SPT (blows/300mm)

RECOVERY: 20, 40, 60, 80

MOISTURE CONTENT & SPT N
$W_P$% W% $W_L$%
20, 40, 60, 80

BGC ENGINEERING INC.
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CLIENT: Victoria Gold Corporation

PRINT DATE: 11/16/2011

EGP (SOIL) EGP_SOIL.GDL BGC.GDT 11/16/11

PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

# DRILL HOLE # BH-BGC10-AG5

LOCATION : ANN GULCH

CO-ORDINATES (m) 459551E - 7101626N
GROUND ELEVATION (m) : 934
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : n/a

DRILL DESIGNATION : CS-10
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond
CORE SIZE : HQ3
FLUID : Water
CASED TO (m):

START DATE : 26 May 10
FINISH DATE : 26 May 10
FINAL DEPTH (m) : 16.2
DEPTH TO TOP OF ROCK (m) : 0.9
LOGGED BY : LGT
REVIEWED BY : PQ

| DEPTH (m) | INSTRUMENT DETAILS | SYMBOL | CORE DESCRIPTION |
|---|---|---|---|
| 0 | | | 0 to 0.90 m - See BH-BGC10-AG5 soil log. |
| 1 | | | BEDROCK<br>Grey, iron stained, fine grained, phyllic, foliated, fractures are closely spaced, parallel to foliations, planar, smooth. [SLIGHTLY WEATHERED METASEDIMENTARY ROCK] |

CORE RECOVERY %
RQD % (20 40 60 80)
WEATHERING GRADE (1 2 3 4 5)
POINT LOAD INDEX $Is_{50}$ ◆ 0.1 0.6 1.5 3.0 7.0 (MPa)
STRENGTH GRADE (R) R1 R2 R3 R4 R5
FRACTURE FREQUENCY (FF/M) (20 40 60 80)
Average Joint Condition (Jc) (5 10 15 20)
RMR (20 40 60 80)

(CONTINUED ON NEXT PAGE)

PROJECT: Eagle Gold Project - Infrastructure

PROJECT NO.: 0792-004

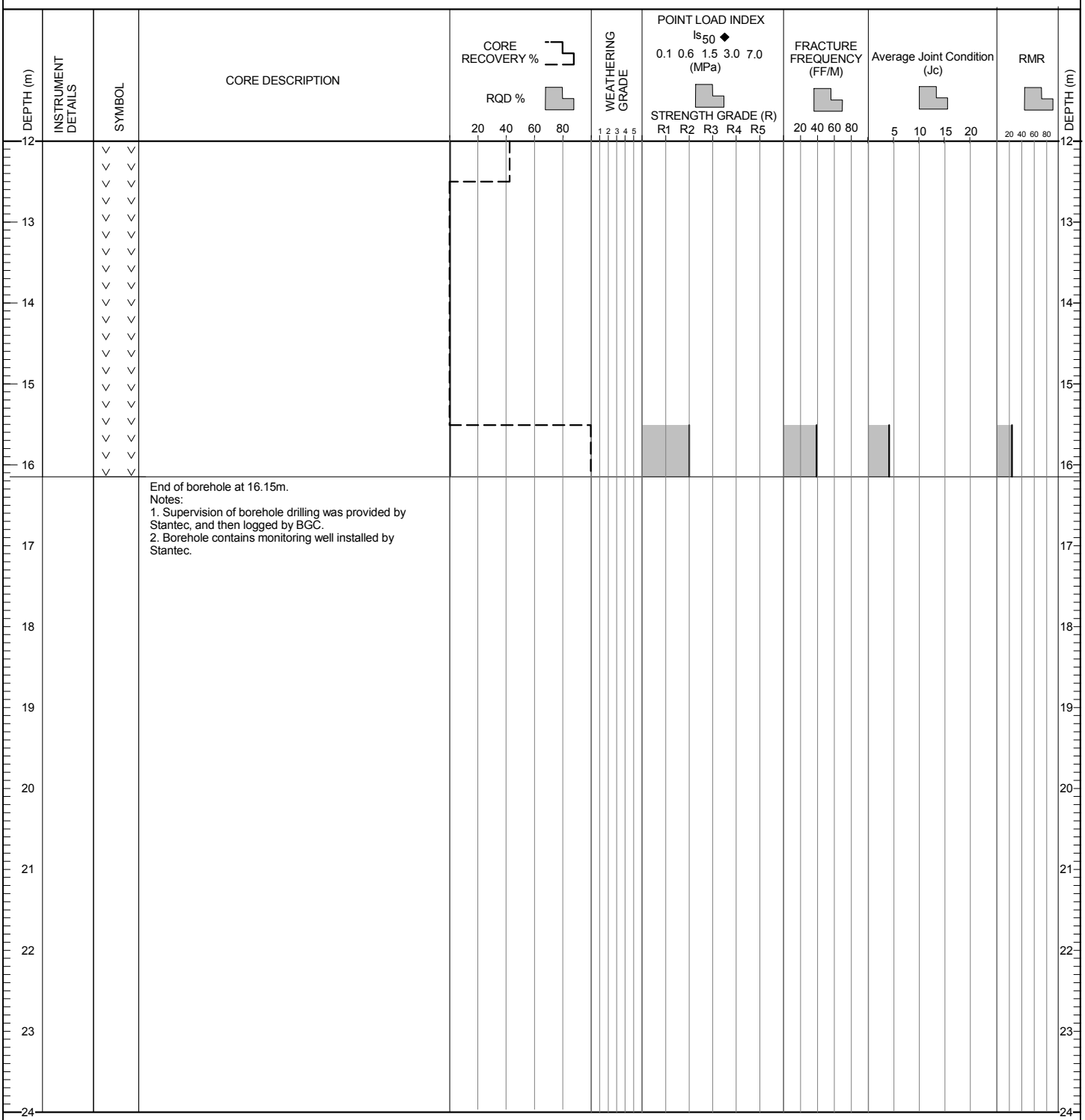
# DRILL HOLE # BH-BGC10-AG5

LOCATION : ANN GULCH

CO-ORDINATES (m) 459551E - 7101626N
GROUND ELEVATION (m) : 934
SURVEY METHOD : Hand GPS
DATUM : UTM NAD 83
PLUNGE (°) : -90
TREND (°) : n/a

DRILL DESIGNATION : CS-10
DRILLING CONTRACTOR : Lyncorp
DRILL METHOD : Rotary Diamond
CORE SIZE : HQ3
FLUID : Water
CASED TO (m):

START DATE : 26 May 10
FINISH DATE : 26 May 10
FINAL DEPTH (m) : 16.2
DEPTH TO TOP OF ROCK (m) : 0.9
LOGGED BY : LGT
REVIEWED BY : PQ




End of borehole at 16.15m.
Notes:
1. Supervision of borehole drilling was provided by Stantec, and then logged by BGC.
2. Borehole contains monitoring well installed by Stantec.

BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

CLIENT: Victoria Gold Corporation

PRINT DATE: 11/16/2011

EGP (ROCK) EGP_ROCK.GDL BGC.GDT 11/16/11

# APPENDIX E
# BOREHOLE PHOTOS

**BH-BGC10-01**


Hole ID: BH-BGC10-01 Box 1 – 0 m to 7.31 m


Hole ID: BH-BGC10-01 Box 2 – 7.31 m to 11.27 m


Hole ID: BH-BGC10-01 Box 3 – 11.27 m to 14.5 m


Hole ID: BH-BGC10-01 Box 4 – 14.5 m to 18.3 m


Hole ID: BH-BGC10-01 Box 5 – 18.3 m to 20.42 m

**BH-BGC10-02**


Hole ID: BH-BGC10-02 Box 1 – 0 m to 20.40 m

**BH-BGC10-04**


Hole ID: BH-BGC10-04 Box 1 – 2.4 m to 5.5 m


Hole ID: BH-BGC10-04 Box 2 – 9.8 m to 12.0 m

Hole ID: BH-BGC10-04 Box 3 – 12.0 m to 15.0 m


Hole ID: BH-BGC10-04 Box 4 – 15.0 m to 17.5 m


Hole ID: BH-BGC10-04 Box 5 – 17.5 m to 19.8 m


Hole ID: BH-BGC10-04 Box 6 – 19.8 m to 22.0 m


Hole ID: BH-BGC10-04 Box 7 – 22.0 m to 24.8 m


Hole ID: BH-BGC10-04 Box 8 – 24.8 m to 27.0 m


Hole ID: BH-BGC10-04 Box 9 – 27.0 m to 29.5 m


Hole ID: BH-BGC10-04 Box 10 – 29.5 m to 31.0 m

**BH-BGC10-05**


Hole ID: BH-BGC10-05 Box 1 – 0 m to 5.3 m


Hole ID: BH-BGC10-05 Box 2 – 5.3 m to 10.45 m


Hole ID: BH-BGC10-05 Box 3 – 10.45 m to 13.0 m


Hole ID: BH-BGC10-05 Box 4 – 13.0 m to 15.65 m


Hole ID: BH-BGC10-05 Box 5 – 15.65 to 19.3 m


Hole ID: BH-BGC10-05 Box 6 – 19.3 m to 21.03 m

**BH-BGC10-06**


Hole ID: BH-BGC10-06 Box 1 – 0 m to 19.52 m


Hole ID: BH-BGC10-06 Box 2 – 19.52 m to 25.88 m


Hole ID: BH-BGC10-06 Box 3 – 25.88 m to 28.88 m

**BH-BGC10-07**


Hole ID: BH-BGC10-07 Box 1 – 0 m to 22.60 m


Hole ID: BH-BGC10-07 Box 2 – 22.60 m to 28.65 m


Hole ID: BH-BGC10-07 Box 3 – 28.65 m to 29.55 m

**BH-BGC10-08**


Hole ID: BH-BGC10-08 Box 1 – 0 m to 6.87 m


Hole ID: BH-BGC10-08 Box 2 – 6.87 m to 10.97 m


Hole ID: BH-BGC10-08 Box 3 – 10.97 m to 14.02 m


Hole ID: BH-BGC10-08 Box 4 – 10.0 m to 14.8 m


Hole ID: BH-BGC10-08 Box 5 – 14.80 m to 20.11 m


Hole ID: BH-BGC10-08 Box 6 – 20.11 m to 23.05 m


Hole ID: BH-BGC10-08 Box 7 – 23.05 m to 26.21 m

**BH-BGC10-09**


Hole ID: BH-BGC10-09 Box 1 – 0 m to 23.17 m


Hole ID: BH-BGC10-09 Box 2 – 23.17 m to 28.34

**BH-BGC10-10**


Hole ID: BH-BGC10-10 Box 1 – 0 m to 14.32 m


Hole ID: BH-BGC10-10 Box 2 – 14.32 m to 23.46 m

**BH-BGC10-11**


Hole ID: BH-BGC10-11 Box 1 – 0 m to 23.8 m


Hole ID: BH-BGC10-11 Box 2 – 23.8 m to 39.2 m


Hole ID: BH-BGC10-11 Box 3 – 39.8 m to 46.6 m

**BH-BGC10-12**

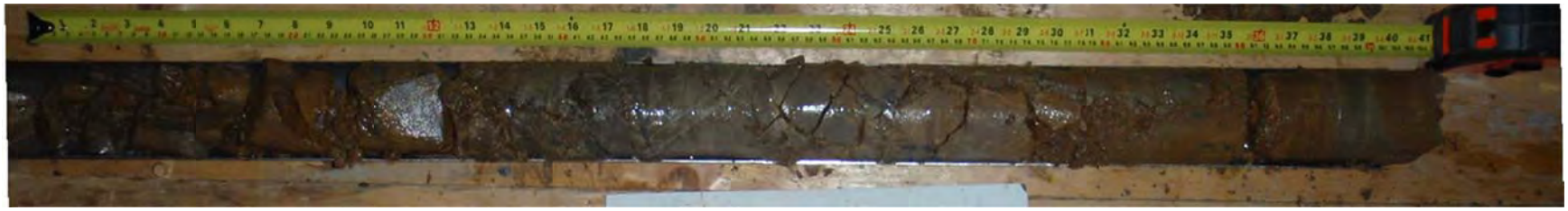
Hole ID: BH-BGC10-12 Runs 1 - 0 m to 2.74 m

Hole ID: BH-BGC10-12 Runs 2 – 2.74 m to 5.79 m

Hole ID: BH-BGC10-12 Run 4 – 8.84 m to 11.89 m

Hole ID: BH-BGC10-12 Run 5 – 11.89 to 14.94 m

Hole ID: BH-BGC10-12 Run 6 – 14.94 m to 17.99 m



Hole ID: BH-BGC10-12 Run 7 – 17.99 m to 19.21 m

Hole ID: BH-BGC10-12 Run 8 – 19.21 m to 21.04 m

Hole ID: BH-BGC10-12 Run 9 – 21.04 m to 22.87 m

Hole ID: BH-BGC10-12 Run 10– 22.87 m to 24.09 m

Hole ID: BH-BGC10-12 Run 11 – 24.09 m to 27.14 m

Hole ID: BH-BGC10-12 Run 12 – 27.14 m to 28.66 m

**BH-BGC10-13**


Hole ID: BH-BGC10-13 Box 1 – 0 m to 5.78 m


Hole ID: BH-BGC10-13 Box 2 – 5.78 m to 10.6 m


Hole ID: BH-BGC10-13 Box 3 – 10.6 m to 13.8 m

**BH-BGC10-15**


Hole ID: BH-BGC10-15 Box 1 – 8.83 m to 12.98 m


Hole ID: BH-BGC10-15 Box 2 – 12.98 m to 16.15 m


Hole ID: BH-BGC10-15 Box 3 – 16.15 m to 19.50 m


Hole ID: BH-BGC10-15 Box 4 – 19.5 m to 21.03 m

**BH-BGC10-16**


Hole ID: BH-BGC10-16 Box 1 – 0 m to 12.80 m


Hole ID: BH-BGC10-16 Box 2 – 12.80 m to 21.00 m

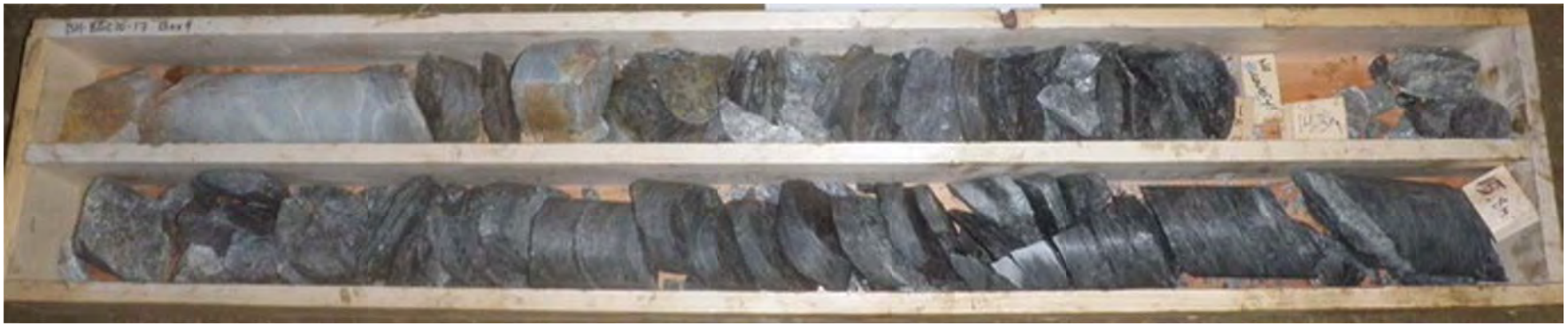

Hole ID: BH-BGC10-16 Box 3 – 21.00 m to 28.04 m

**BH-BGC10-17**

Hole ID: BH-BGC10-17 Box 1 – 2.8 m to 5.8 m

Hole ID: BH-BGC10-17 Box 2 – 5.8 m to 7.3 m

Hole ID: BH-BGC10-17 Box 3 – 7.3 m to 10.0 m



Hole ID: BH-BGC10-17 Box 4 – 10.0 m to 14.8 m

Hole ID: BH-BGC10-17 Box 5 – 14.8 m to 19.0 m


Hole ID: BH-BGC10-17 Box 6 – 19.0 m to 21.3 m


Hole ID: BH-BGC10-17 Box 7 – 21.3 m to 24.2 m


Hole ID: BH-BGC10-17 Box 8 – 24.2 m to 27.0 m


Hole ID: BH-BGC10-17 Box 9 – 27.0 m to 29.5 m


Hole ID: BH-BGC10-17 Box 10 – 29.5 m to 32.5 m


Hole ID: BH-BGC10-17 Box 11 – 32.5 m to 35.0 m


Hole ID: BH-BGC10-17 Box 12 – 35.0 m to 37.3 m

**BH-BGC10-18**


Hole ID: BH-BGC10-18 Box 1 – 0 m to 7.50 m


Hole ID: BH-BGC10-18 Box 2 – 7.50 m to 10.38 m


Hole ID: BH-BGC10-18 Box 3 – 10.38 m to 14.50 m


Hole ID: BH-BGC10-18 Box 4 – 14.50 m to 17.80 m


Hole ID: BH-BGC10-18 Box 5 – 17.80 m to 20.40 m


Hole ID: BH-BGC10-18 Box 6 – 20.4 m to 23.55 m


Hole ID: BH-BGC10-18 Box 7 – 23.55 m to 27.12 m


Hole ID: BH-BGC10-18 Box 8 – 27.12 m to 30.17 m

**BH-BGC10-20**


Hole ID: BH-BGC10-20 Box 1 – 0 m to 5.35 m


Hole ID: BH-BGC10-20 Box 2 – 5.35 m to 9.50 m


Hole ID: BH-BGC10-20 Box 3 – 9.50 m to 13.02 m


Hole ID: BH-BGC10-20 Box 4 – 13.02 m to 15.09 m

**BH-STAN10-AG3**


Hole ID: BH-STAN10-AG3 Box 1 – 0 m to 13.40 m


Hole ID: BH-STAN10-AG3 Box 2 – 13.40 to 16.72 m

# APPENDIX F
# CUT SLOPE LOGS

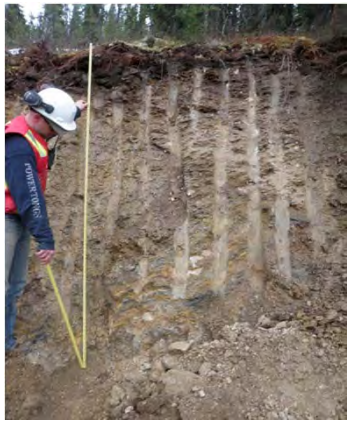
# Cut Slope Log BH-BGC10-01

Group 5 rock close up

Group 4 rock close up

1 SILT (OL), organic, trace sand, fine to coarse, trace clay, dark brown, moderately plastic, moist, homogeneous, some roots and rootlets [TOPSOIL]
2 SAND (SM), fine to coarse, silty, trace clay, trace fine to coarse gravel, trace cobbles, moderately plastic, brown, moist, rapid dilatancy.
Clasts are: mps: 150mm, <5%>75mm, elongated to equant, angular, W3, R2-R3, metasedinmentary rock [COLLUVIUM]
3 3 to 10cm bed of SAND (SW), some silt, trace fine gravel, dark grey, non plastic, wet, bedded. Clast are mps:30mm, flat angular.
4 Bedrock: Thinly spaced beds of siltstone/sandstone, W4, RO (rockmass), R3 (for intact clasts), brownish grey, metasedimentary. Beds thickness varies from 2 to 50mm
5 Bedrock: Moderately thinly spaced beds of siltstone/sandstone, brownish grey, W3, R2-R4 (for intact clasts). Rock mass is highly fractured and breaks into cobble size equant squarish angular blocks

# Cut Slope Log BH-BGC10-10




1 SILT (OL), trace sand, non plastic, very soft, dark brown, wet, organic smell, non cemented, some roots and rootlets [TOPSOIL]
2 SAND (SM), fine to coarse, silty, come gravel, fine to coarse, trace cobbles, mps=200mm, <5%>75mm. Particles are elongated to equant, angular, R1 to R3, slightly to moderately weathered. [COLLUVIUM]
Soil is stiff (frozen), moist to wet, homogeneous. Nbn, Vx (inclusions of colourledd ice, transparent, <1-% bubbles, bubbles <1mm. Ice is separate from soil and particles)
3 Thinly laminated beds of SAND (SM), fine to coarse, silty, trace clay/ SAND (SP), medium to coarse, trace to some gravel. [COMPLETELY WEATHERED BEDROCK]
Well to poorly graded, compact, dark grey to yellowish orange, non to moderately plastic, rapid dilatancy (for silty sand).
Particles are elongated to equant, angular, quartzite, R1-R2, moderately weathered. Some weathered clats break down to silt clay particles.
Frozen Nbn with Vx (in lenses).

# Cut Slope Log TP-BGC10-04


1 SILT (OL), organic, trace sand, fine to coarse, trace clay, dark brown, some roots and rootlets [TOPSOIL]
2 SAND (SM), silty, trace clay, trace to some gravel, trace cobbles, brown, moist [COLLUVIUM]
3 Bedrock: Highly fractured rock mass, R3, W2, brownish grey, [MEDISEDIMENTARY]
4 Bedrock: Blocky, R4 W2, fractured and breaks into cobble size cubic angular blocks[MEDISEDIMENTARY]

# APPENDIX G
# LABORATORY TEST REPORTS

# WATER CONTENT DETERMINATION

Reference(s)
**ASTM D 4959**

| | | | |
|---|---|---|---|
| **Client:** | BGC Engineering Inc | **Project No.:** 10-1416-0029 **Phase:** 17000 | |
| **Project:** | Eagle Gold Project | **Lab Schedule No.:** 230 | |
| **Location:** | Yukon | | |

| Sample Location | Sample No. | Sample Interval | | Water Content (%) |
|---|---|---|---|---|
| | | Depth (m) | Bottom (m) | |
| **TP-BGC10-05** | **M1** | 0.50 | 0.50 | **8.5** |
| **TP-BGC10-06** | **M1** | 0.50 | 0.50 | **8.8** |
| **TP-BGC10-06** | **M2** | 1.10 | 1.10 | **16.0** |
| **TP-BGC10-08** | **M1** | 0.60 | 0.60 | **7.8** |
| **TP-BGC10-08** | **M2** | 1.00 | 1.00 | **16.7** |
| **TP-BGC10-11** | **M3** | 3.50 | 3.50 | **8.7** |
| **TP-BGC10-12** | **M2** | 3.00 | 3.00 | **13.6** |
| **TP-BGC10-13** | **M2** | 3.80 | 3.80 | **10.8** |
| **TP-BGC10-14** | **M4** | 5.20 | 5.20 | **8.9** |
| **TP-BGC10-15** | **M1** | 1.50 | 1.50 | **17.0** |
| **TP-BGC10-15** | **M2** | 3.80 | 3.80 | **16.9** |
| **TP-BGC10-18** | **M1** | 3.00 | 3.00 | **8.0** |
| **TP-BGC10-18** | **M2** | 5.00 | 5.00 | **11.0** |
| **TP-BGC10-19** | **M1** | 1.00 | 1.00 | **7.7** |
| **TP-BGC10-21** | **M1** | 5.00 | 5.00 | **20.0** |
| **TP-BGC10-21** | **M2** | 6.00 | 6.00 | **12.8** |
| **TP-BGC10-26** | **M1** | 2.50 | 2.50 | **5.7** |
| **TP-BGC10-30** | **M1** | 1.00 | 1.00 | **9.7** |
| **TP-BGC10-32** | **M1** | 4.00 | 4.00 | **9.6** |
| **TP-BGC10-33** | **M1** | 1.00 | 1.00 | **17.4** |
| **TP-BGC10-33** | **M2** | 2.00 | 2.00 | **4.7** |
| **TP-BGC10-34** | **M1** | 4.00 | 4.00 | **9.9** |
| **TP-BGC10-37** | **M2** | 6.00 | 6.00 | **7.9** |
| **TP-BGC10-42** | **M2** | 2.00 | 2.00 | **13.6** |
| **TP-BGC10-43** | **M2** | 4.00 | 4.00 | **20.8** |
| **TP-BGC10-43** | **M3** | 5.20 | 5.20 | **9.4** |
| **TP-BGC10-45** | **M1** | 5.50 | 5.50 | **21.5** |
| **TP-BGC10-48** | **M2** | 3.00 | 3.00 | **45.3** |
| **TP-BGC10-49** | **M1** | 2.50 | 2.50 | **32.6** |

| | | |
|---|---|---|
| LP | 12/6/2010 | |
| Checked | Date | |

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# PARTICLE SIZE ANALYSIS OF SOILS

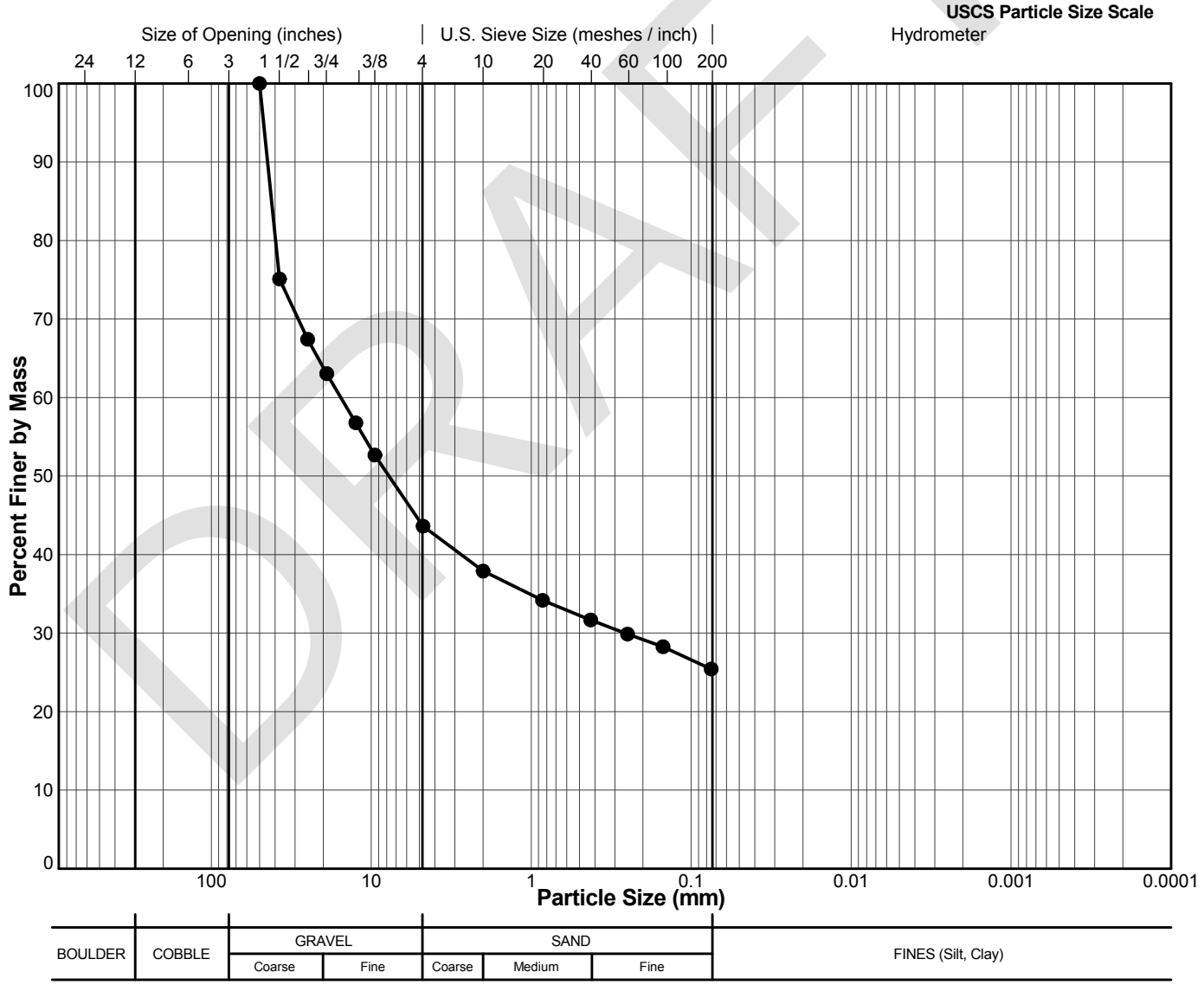
Reference(s)
**ASTM D 422-63 (2007)**

| | |
|---|---|
| **Client:** BGC Engineering Inc | **Sample Location:** TP-BGC10-05 |
| **Project:** Eagle Gold Project | **Sample No.:** M1 |
| **Location:** Yukon | **Depth Interval (m):** 0.50 to 0.50 |
| **Project No.:** 10-1416-0029 **Phase:** 17000 | **Lab Schedule No.:** 230 |

**Other Remarks:** **N/A**

| | |
|---|---|
| **Specific Gravity (assumed): 2.76** | **Shape: N/A** |
| **Max. Particle Size Passing (mm): 50** | **Hardness: N/A** |

**Method: Split, Washed**




| KG/EB | 11/23/2010 | | |
|---|---|---|---|
| Tech | Date | Checked | Date |





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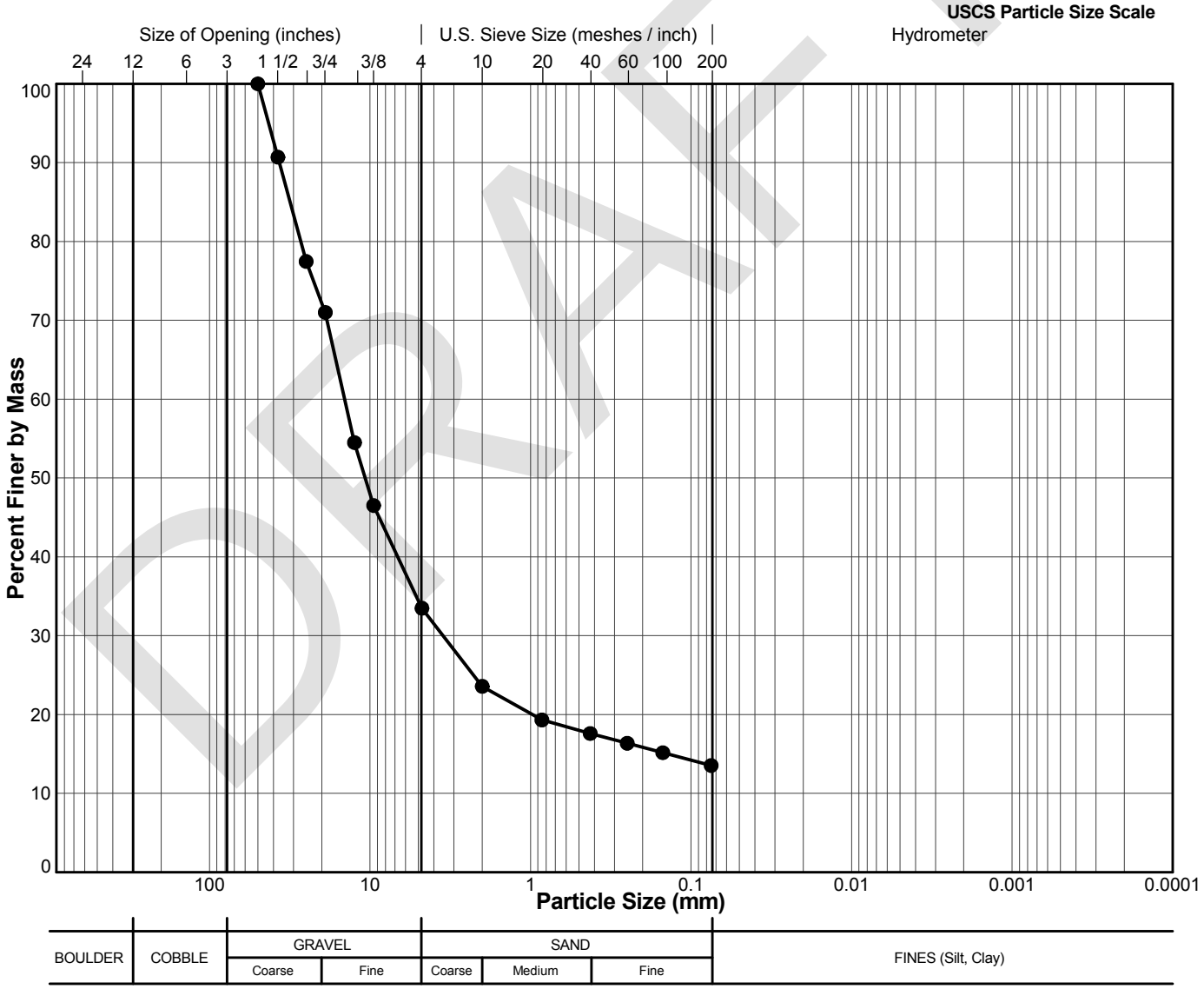
# PARTICLE SIZE ANALYSIS OF SOILS

Reference(s)
**ASTM D 422-63 (2007)**

| | | | |
|---|---|---|---|
| **Client:** | BGC Engineering Inc | **Sample Location:** | TP-BGC10-06 |
| **Project:** | Eagle Gold Project | **Sample No.:** | M1 |
| **Location:** | Yukon | **Depth Interval (m):** | 0.50 to 0.50 |
| **Project No.:** | 10-1416-0029 **Phase:** 17000 | **Lab Schedule No.:** | 230 |

**Other Remarks:** **N/A**

| | |
|---|---|
| **Specific Gravity (assumed): 2.76** | **Shape: N/A** |
| **Max. Particle Size Passing (mm): 50** | **Hardness: N/A** |
| **Method: Split, Washed** | |




| | | | |
|---|---|---|---|
| **KG/EB** | **11/24/2010** | | |
| Tech | Date | Checked | Date |





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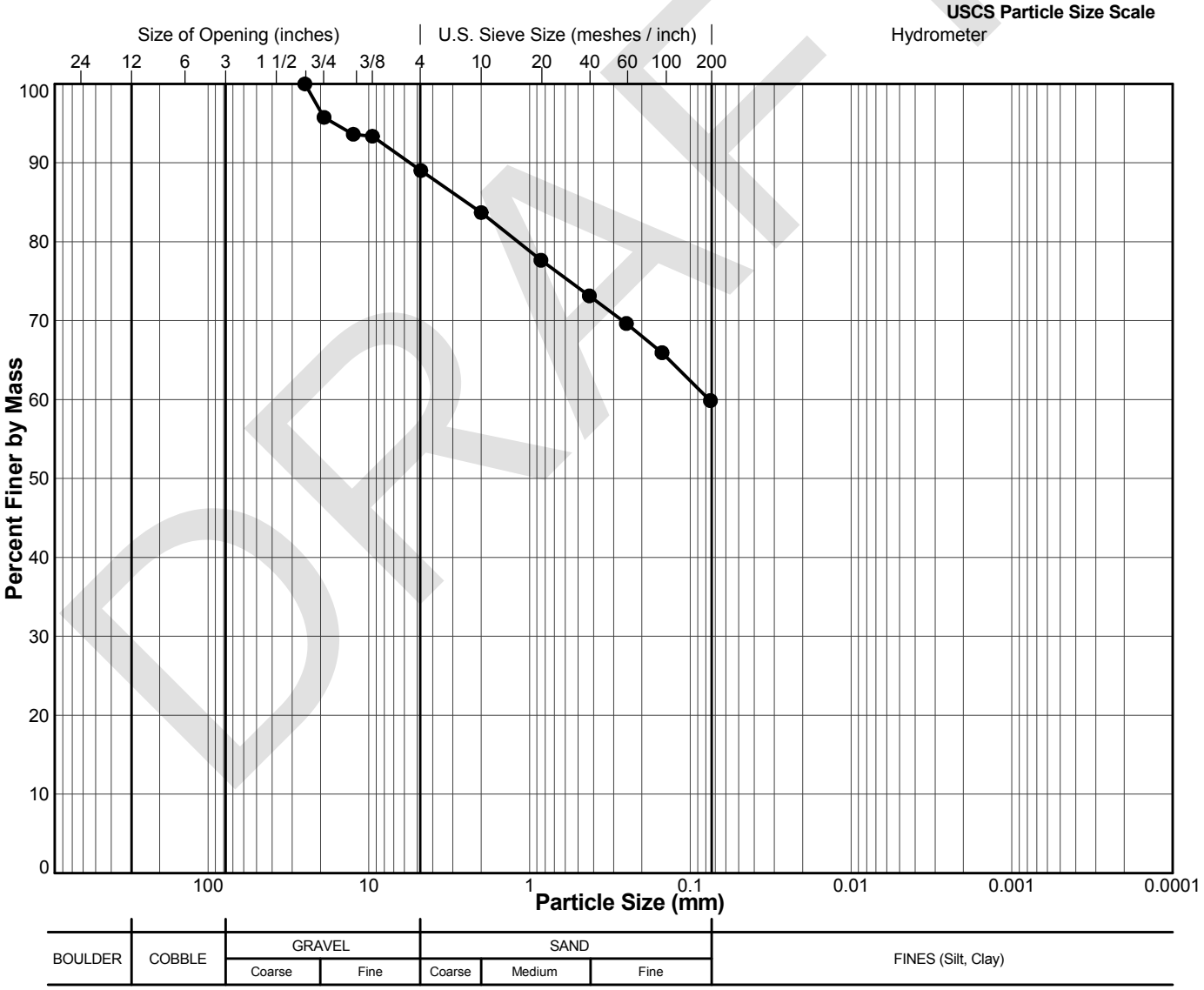
# PARTICLE SIZE ANALYSIS OF SOILS

Reference(s)
**ASTM D 422-63 (2007)**

| | |
|---|---|
| **Client:** BGC Engineering Inc | **Sample Location:** TP-BGC10-06 |
| **Project:** Eagle Gold Project | **Sample No.:** M2 |
| **Location:** Yukon | **Depth Interval (m):** 1.10 to 1.10 |
| **Project No.:** 10-1416-0029 **Phase:** 17000 | **Lab Schedule No.:** 230 |

**Other Remarks:** **N/A**

| | |
|---|---|
| **Specific Gravity (assumed): 2.76** | **Shape: N/A** |
| **Max. Particle Size Passing (mm): 25** | **Hardness: N/A** |
| **Method: Split, Washed** | |




| | | | |
|---|---|---|---|
| **KG/EB** | **11/24/2010** | | |
| Tech | Date | Checked | Date |





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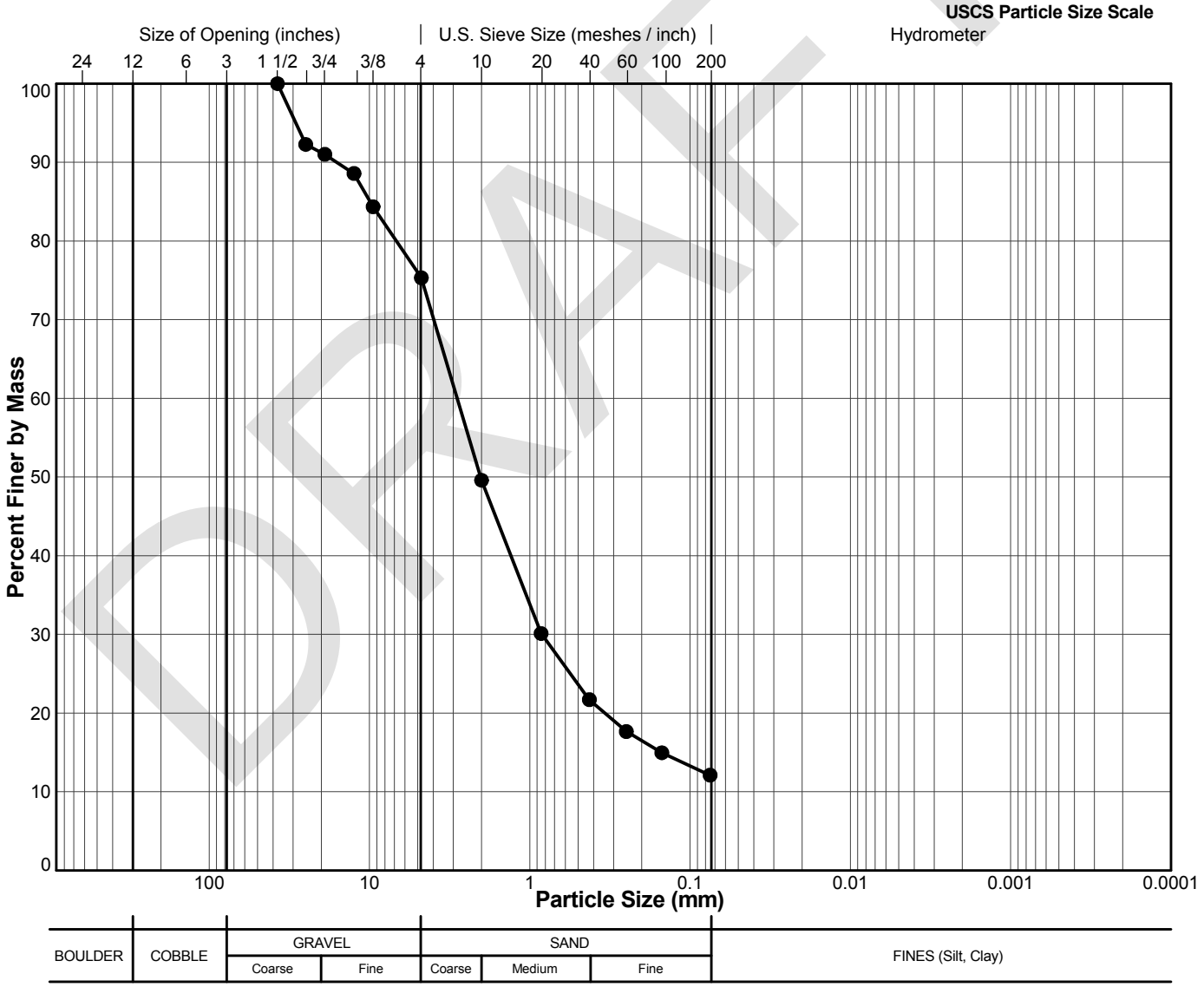
# PARTICLE SIZE ANALYSIS OF SOILS

Reference(s)
**ASTM D 422-63 (2007)**

| | |
|---|---|
| **Client:** BGC Engineering Inc | **Sample Location:** TP-BGC10-08 |
| **Project:** Eagle Gold Project | **Sample No.:** M1 |
| **Location:** Yukon | **Depth Interval (m):** 0.60 to 0.60 |
| **Project No.:** 10-1416-0029 **Phase:** 17000 | **Lab Schedule No.:** 230 |

**Other Remarks:** **N/A**

| | |
|---|---|
| **Specific Gravity (assumed): 2.76** | **Shape: N/A** |
| **Max. Particle Size Passing (mm): 37.5** | **Hardness: N/A** |
| **Method: Split, Washed** | |




| | | | |
|---|---|---|---|
| **KG/EB** | **11/24/2010** | | |
| Tech | Date | Checked | Date |





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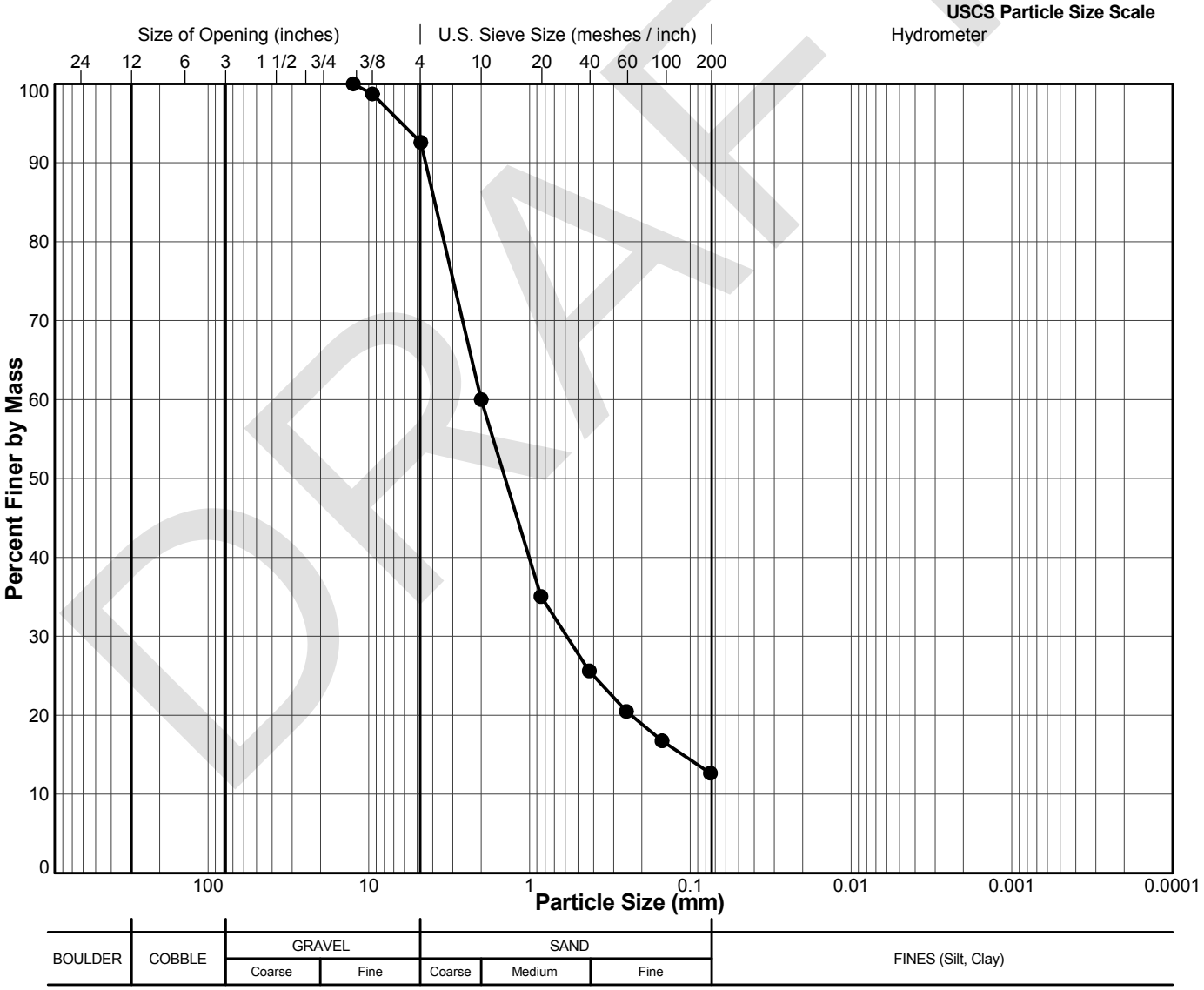
# PARTICLE SIZE ANALYSIS OF SOILS

Reference(s)
**ASTM D 422-63 (2007)**

| | |
|---|---|
| **Client:** BGC Engineering Inc | **Sample Location:** TP-BGC10-08 |
| **Project:** Eagle Gold Project | **Sample No.:** M2 |
| **Location:** Yukon | **Depth Interval (m):** 1.00 to 1.00 |
| **Project No.:** 10-1416-0029 **Phase:** 17000 | **Lab Schedule No.:** 230 |

**Other Remarks:** **N/A**

| | |
|---|---|
| **Specific Gravity (assumed): 2.76** | **Shape: N/A** |
| **Max. Particle Size Passing (mm): 12.5** | **Hardness: N/A** |
| **Method: Split, Washed** | |




| | | | |
|---|---|---|---|
| **KG/EB** | **11/23/2010** | | |
| Tech | Date | Checked | Date |





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# PARTICLE SIZE ANALYSIS OF SOILS

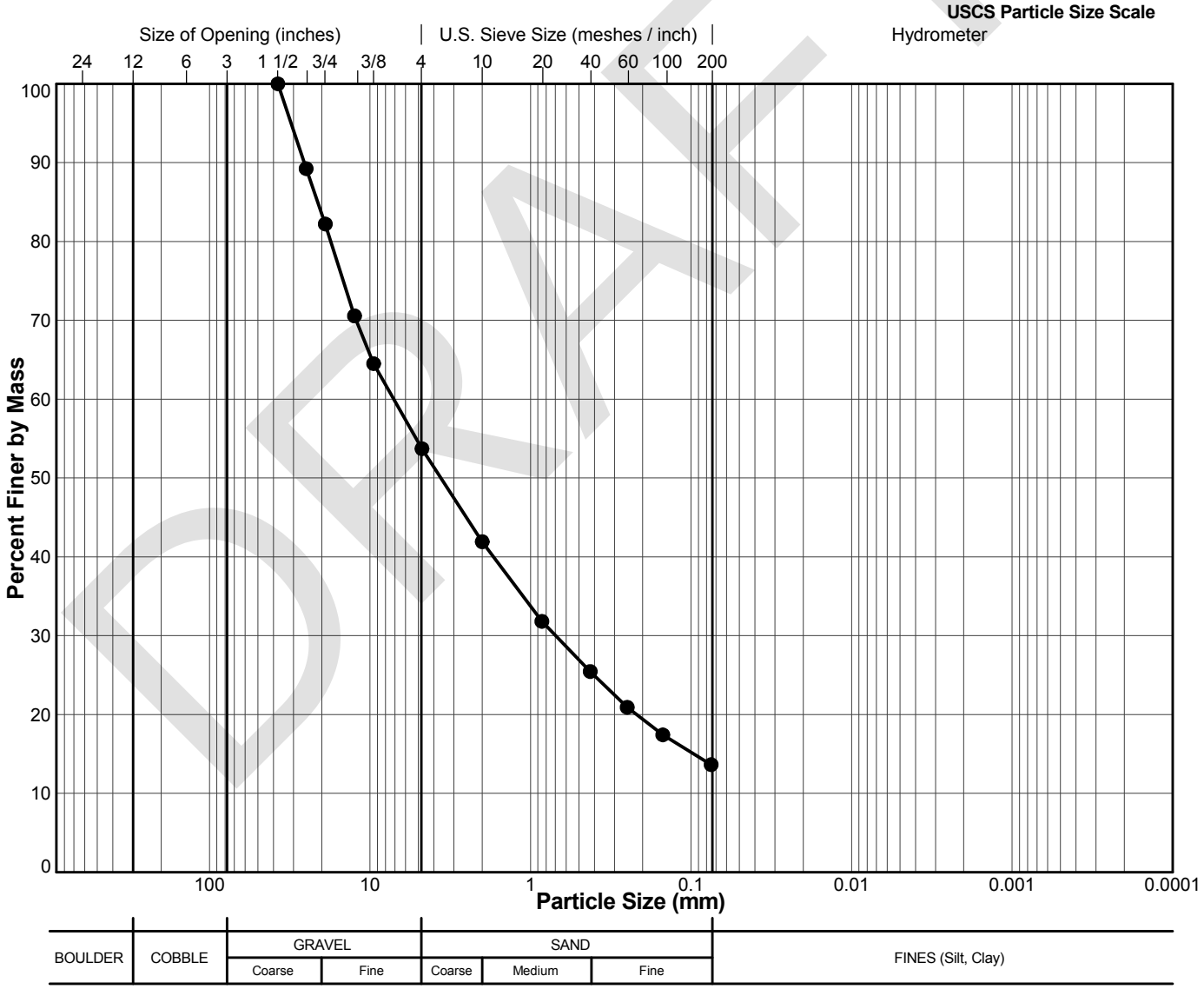
Reference(s)
**ASTM D 422-63 (2007)**

| | |
|---|---|
| **Client:** BGC Engineering Inc | **Sample Location:** TP-BGC10-11 |
| **Project:** Eagle Gold Project | **Sample No.:** M3 |
| **Location:** Yukon | **Depth Interval (m):** 3.50 to 3.50 |
| **Project No.:** 10-1416-0029 **Phase:** 17000 | **Lab Schedule No.:** 230 |

**Other Remarks:** **N/A**

| | |
|---|---|
| **Specific Gravity (assumed): 2.76** | **Shape: N/A** |
| **Max. Particle Size Passing (mm): 37.5** | **Hardness: N/A** |

**Method: Split, Washed**




| | | | |
|---|---|---|---|
| **KG/EB** | **11/24/2010** | | |
| Tech | Date | Checked | Date |





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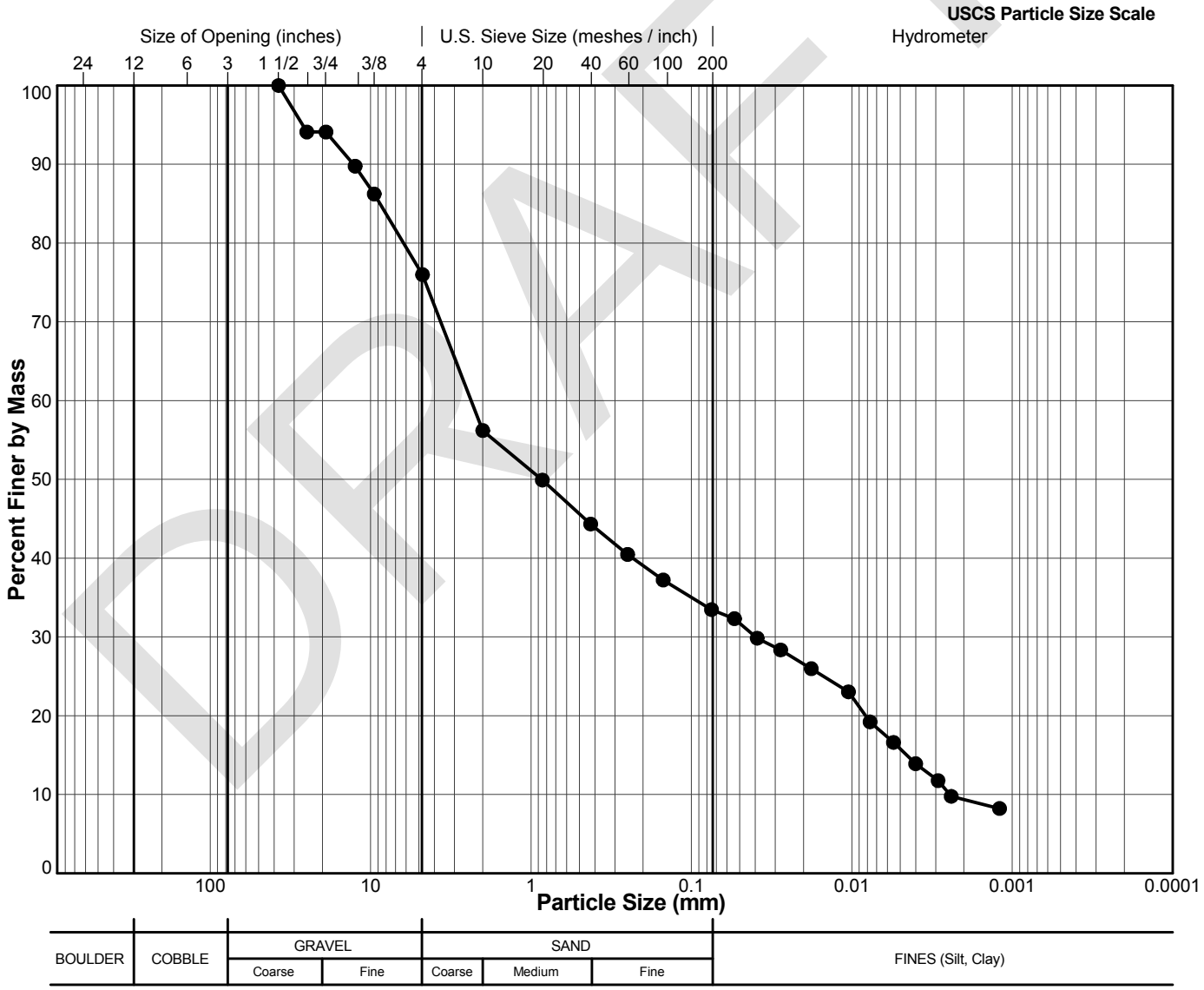
# PARTICLE SIZE ANALYSIS OF SOILS

Reference(s)
**ASTM D 422-63 (2007)**

| | |
|---|---|
| **Client:** BGC Engineering Inc | **Sample Location:** TP-BGC10-12 |
| **Project:** Eagle Gold Project | **Sample No.:** M2 |
| **Location:** Yukon | **Depth Interval (m):** 3.00 to 3.00 |
| **Project No.:** 10-1416-0029 **Phase:** 17000 | **Lab Schedule No.:** 230 |

**Other Remarks:** **N/A**

| | |
|---|---|
| **Specific Gravity (assumed): 2.71** | **Shape: N/A** |
| **Max. Particle Size Passing (mm): 37.5** | **Hardness: N/A** |
| **Method: Split, Washed** | **Dispersion Method: Stirring** |
| **Hydrometer ID: BURNABY - 541360** | **Dispersion Period (min): 1** |

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| **KG/EB** | **11/30/2010** | | |
| Tech | Date | Checked | Date |





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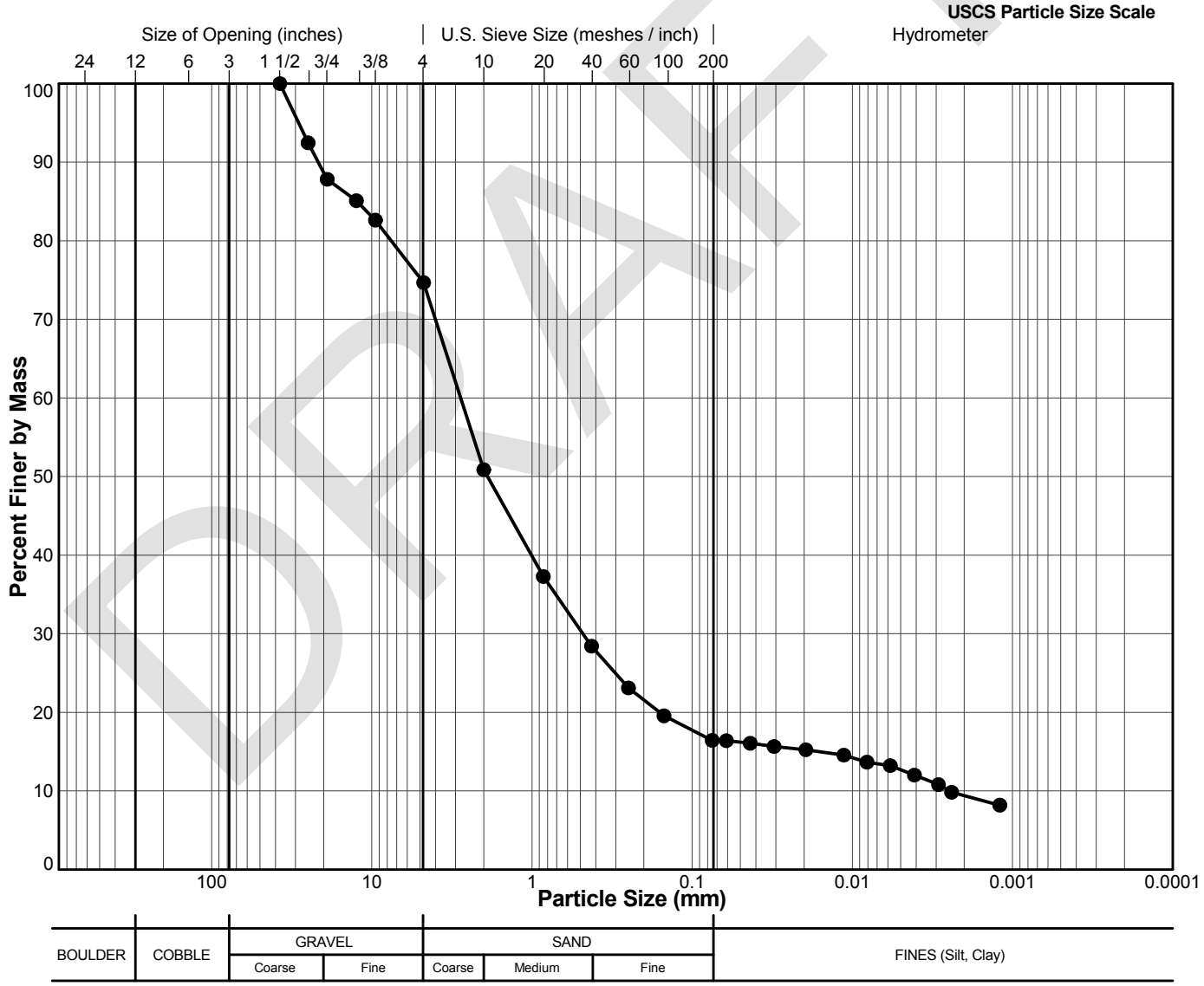
# PARTICLE SIZE ANALYSIS OF SOILS

Reference(s)
**ASTM D 422-63 (2007)**

| | |
|---|---|
| **Client:** BGC Engineering Inc | **Sample Location:** TP-BGC10-13 |
| **Project:** Eagle Gold Project | **Sample No.:** M2 |
| **Location:** Yukon | **Depth Interval (m):** 3.80 to 3.80 |
| **Project No.:** 10-1416-0029 **Phase:** 17000 | **Lab Schedule No.:** 230 |

**Other Remarks:** **N/A**

| | |
|---|---|
| **Specific Gravity (assumed): 2.71** | **Shape: N/A** |
| **Max. Particle Size Passing (mm): 37.5** | **Hardness: N/A** |
| **Method: Split, Washed** | **Dispersion Method: Stirring** |
| **Hydrometer ID: BURNABY - 87024** | **Dispersion Period (min): 1** |

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| **KG/EB** | **11/30/2010** | | |
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# PARTICLE SIZE ANALYSIS OF SOILS

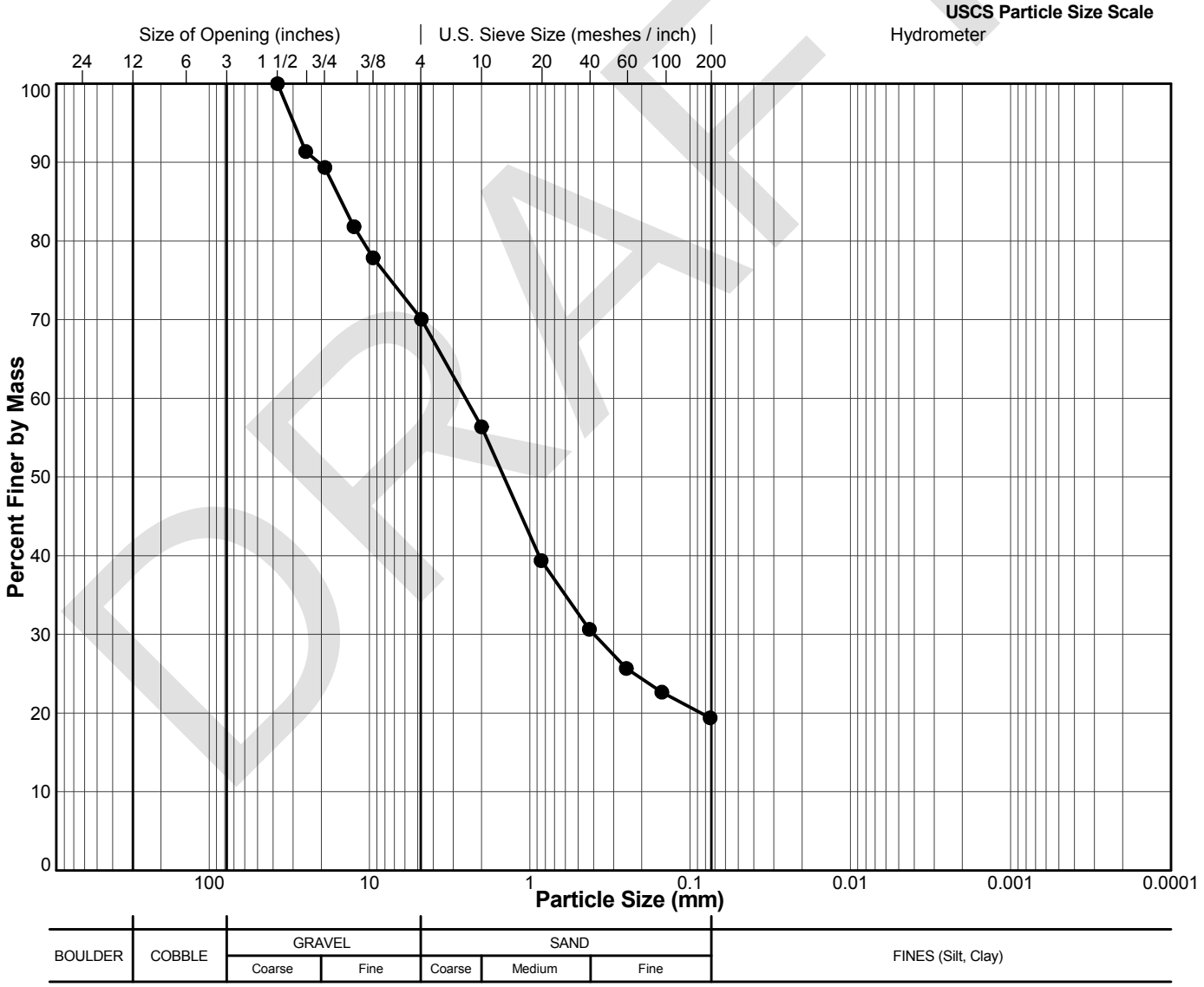
Reference(s)
**ASTM D 422-63 (2007)**

| | |
|---|---|
| **Client:** BGC Engineering Inc | **Sample Location:** TP-BGC10-14 |
| **Project:** Eagle Gold Project | **Sample No.:** M4 |
| **Location:** Yukon | **Depth Interval (m):** 5.20 to 5.20 |
| **Project No.:** 10-1416-0029 **Phase:** 17000 | **Lab Schedule No.:** 230 |

**Other Remarks:** **N/A**

| | |
|---|---|
| **Specific Gravity (assumed): 2.76** | **Shape: N/A** |
| **Max. Particle Size Passing (mm): 37.5** | **Hardness: N/A** |

**Method: Split, Washed**

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| **KG/EB** | **11/24/2010** | | |
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# PARTICLE SIZE ANALYSIS OF SOILS

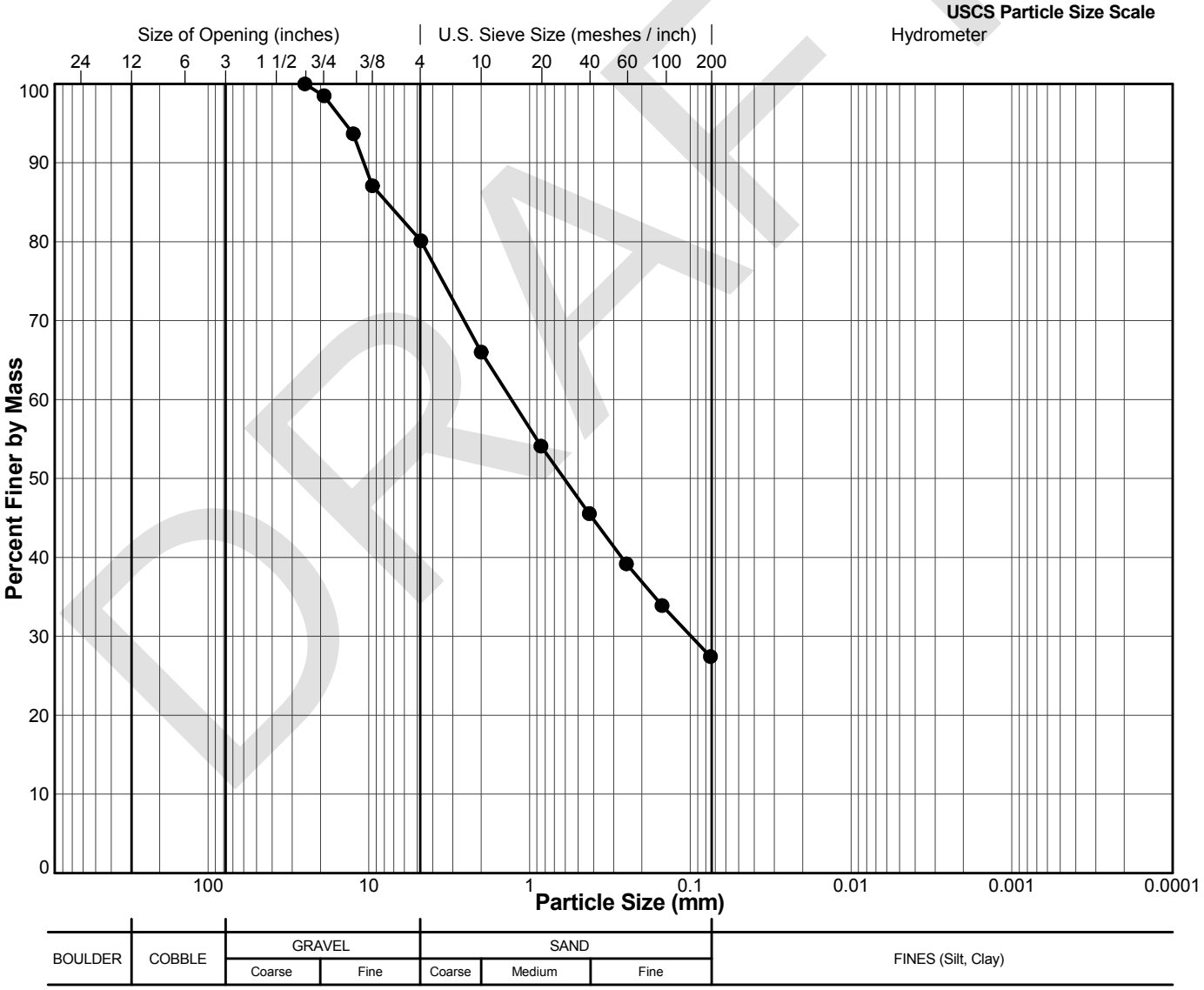
Reference(s)
**ASTM D 422-63 (2007)**

| | |
|---|---|
| **Client:** BGC Engineering Inc | **Sample Location:** TP-BGC10-15 |
| **Project:** Eagle Gold Project | **Sample No.:** M1 |
| **Location:** Yukon | **Depth Interval (m):** 1.50 to 1.50 |
| **Project No.:** 10-1416-0029 **Phase:** 17000 | **Lab Schedule No.:** 230 |

**Other Remarks:** **N/A**

| | |
|---|---|
| **Specific Gravity (assumed): 2.76** | **Shape: N/A** |
| **Max. Particle Size Passing (mm): 25** | **Hardness: N/A** |

**Method: Split, Washed**

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# PARTICLE SIZE ANALYSIS OF SOILS

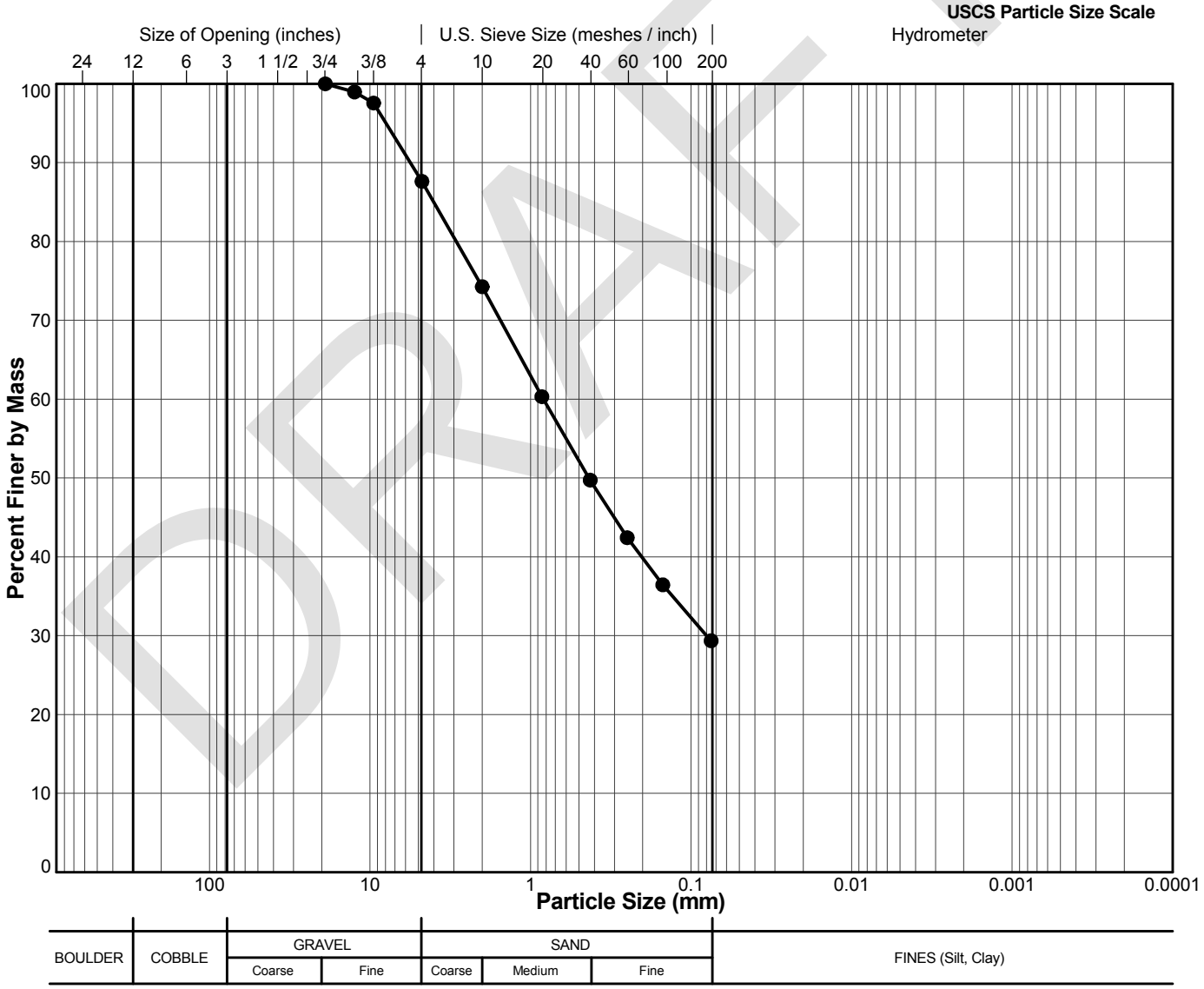
Reference(s)
**ASTM D 422-63 (2007)**

| | |
|---|---|
| **Client:** BGC Engineering Inc | **Sample Location:** TP-BGC10-15 |
| **Project:** Eagle Gold Project | **Sample No.:** M2 |
| **Location:** Yukon | **Depth Interval (m):** 3.80 to 3.80 |
| **Project No.:** 10-1416-0029 **Phase:** 17000 | **Lab Schedule No.:** 230 |

**Other Remarks:** **N/A**

| | |
|---|---|
| **Specific Gravity (assumed): 2.76** | **Shape: N/A** |
| **Max. Particle Size Passing (mm): 19** | **Hardness: N/A** |

**Method: Split, Washed**

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# PARTICLE SIZE ANALYSIS OF SOILS

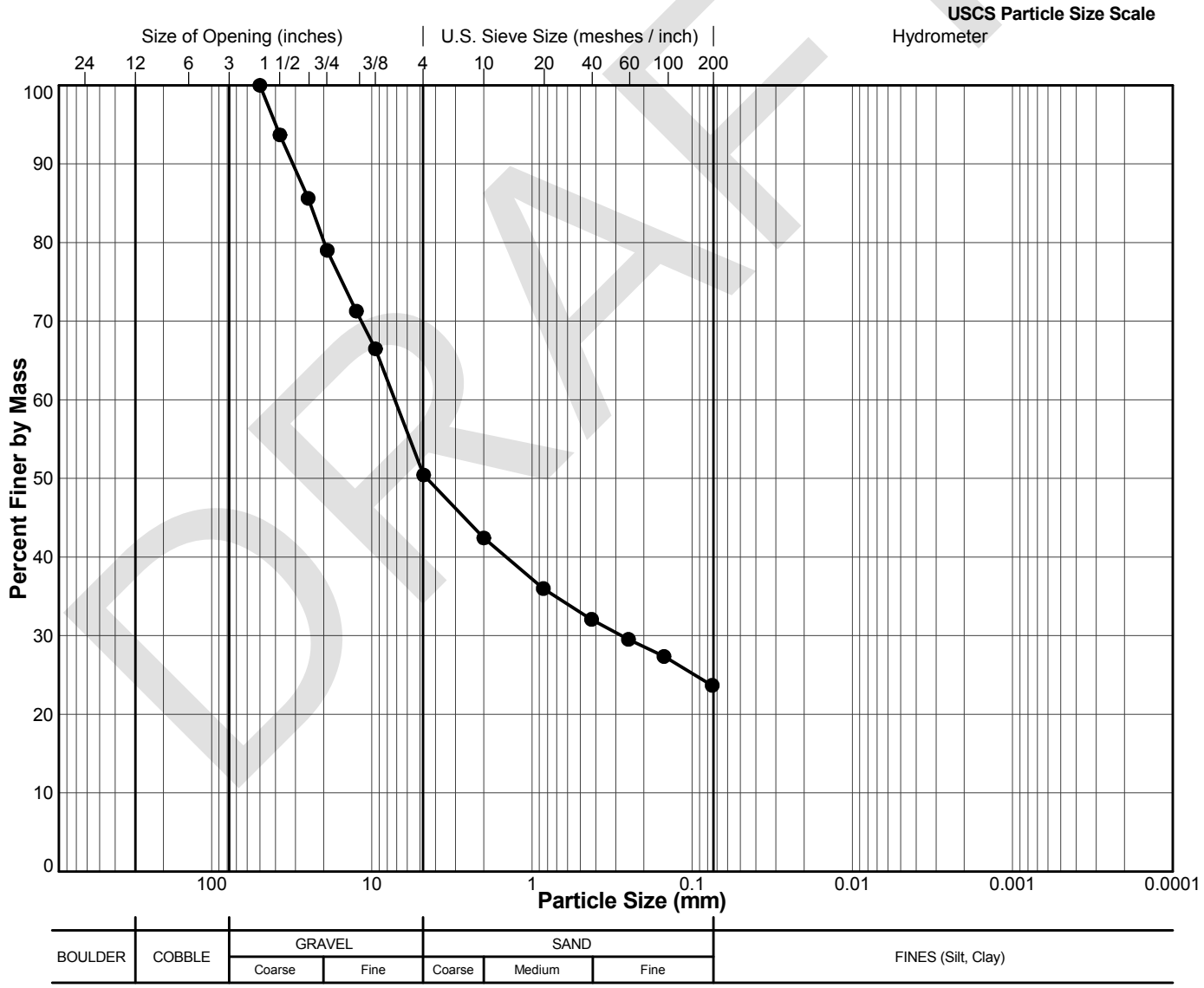
Reference(s)
**ASTM D 422-63 (2007)**

| | |
|---|---|
| **Client:** BGC Engineering Inc | **Sample Location:** TP-BGC10-18 |
| **Project:** Eagle Gold Project | **Sample No.:** M1 |
| **Location:** Yukon | **Depth Interval (m):** 3.00 to 3.00 |
| **Project No.:** 10-1416-0029 **Phase:** 17000 | **Lab Schedule No.:** 230 |

**Other Remarks:** **N/A**

| | |
|---|---|
| **Specific Gravity (assumed): 2.76** | **Shape: N/A** |
| **Max. Particle Size Passing (mm): 50** | **Hardness: N/A** |

**Method: Split, Washed**

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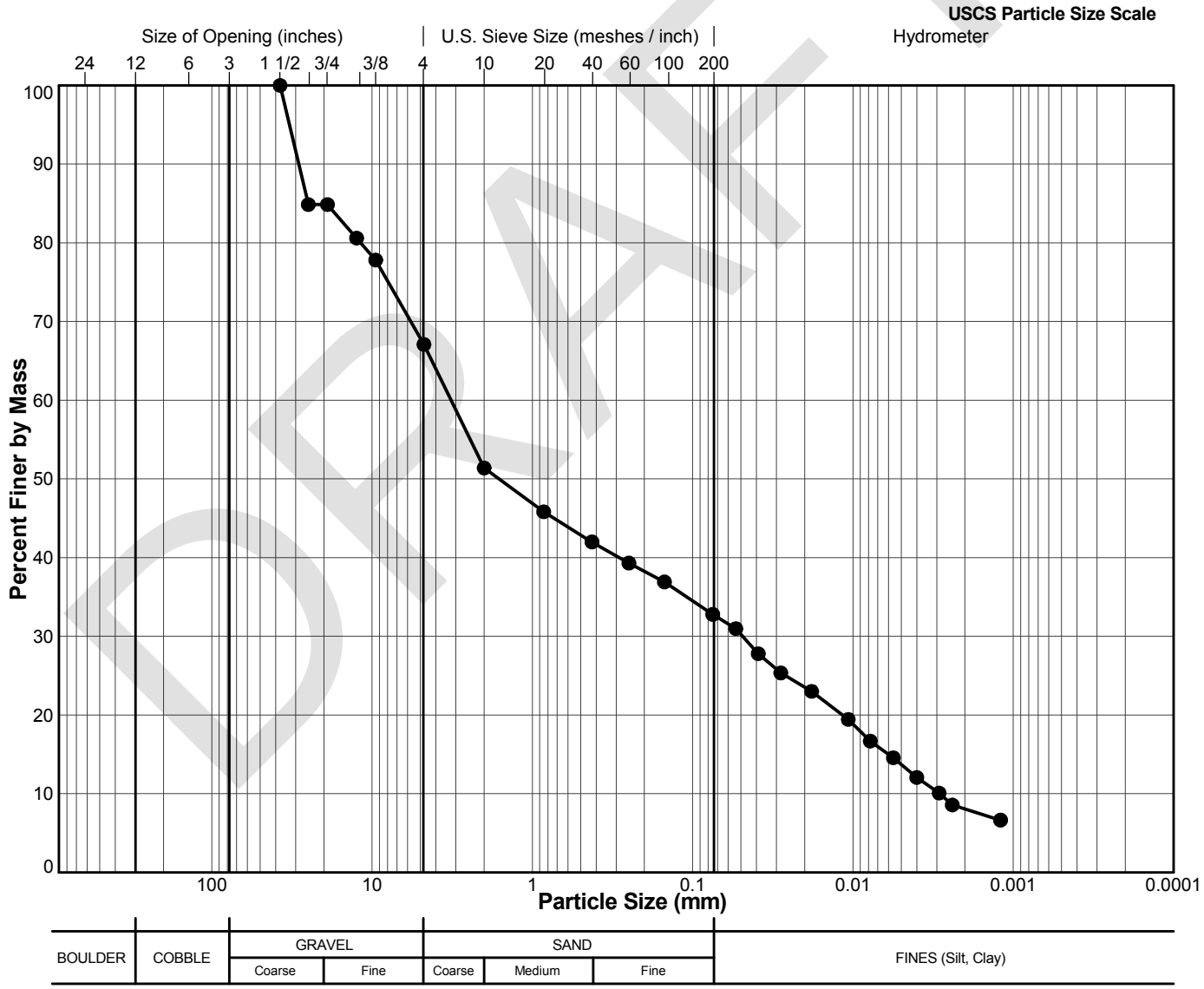
# PARTICLE SIZE ANALYSIS OF SOILS

Reference(s)
**ASTM D 422-63 (2007)**

| | |
|---|---|
| **Client:** BGC Engineering Inc | **Sample Location:** TP-BGC10-18 |
| **Project:** Eagle Gold Project | **Sample No.:** M2 |
| **Location:** Yukon | **Depth Interval (m):** 5.00 to 5.00 |
| **Project No.:** 10-1416-0029 **Phase:** 17000 | **Lab Schedule No.:** 230 |

**Other Remarks:** **N/A**

| | |
|---|---|
| **Specific Gravity (assumed): 2.79** | **Shape: N/A** |
| **Max. Particle Size Passing (mm): 37.5** | **Hardness: N/A** |
| **Method: Split, Washed** | **Dispersion Method: Stirring** |
| **Hydrometer ID: BURNABY - 541360** | **Dispersion Period (min): 1** |

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# PARTICLE SIZE ANALYSIS OF SOILS

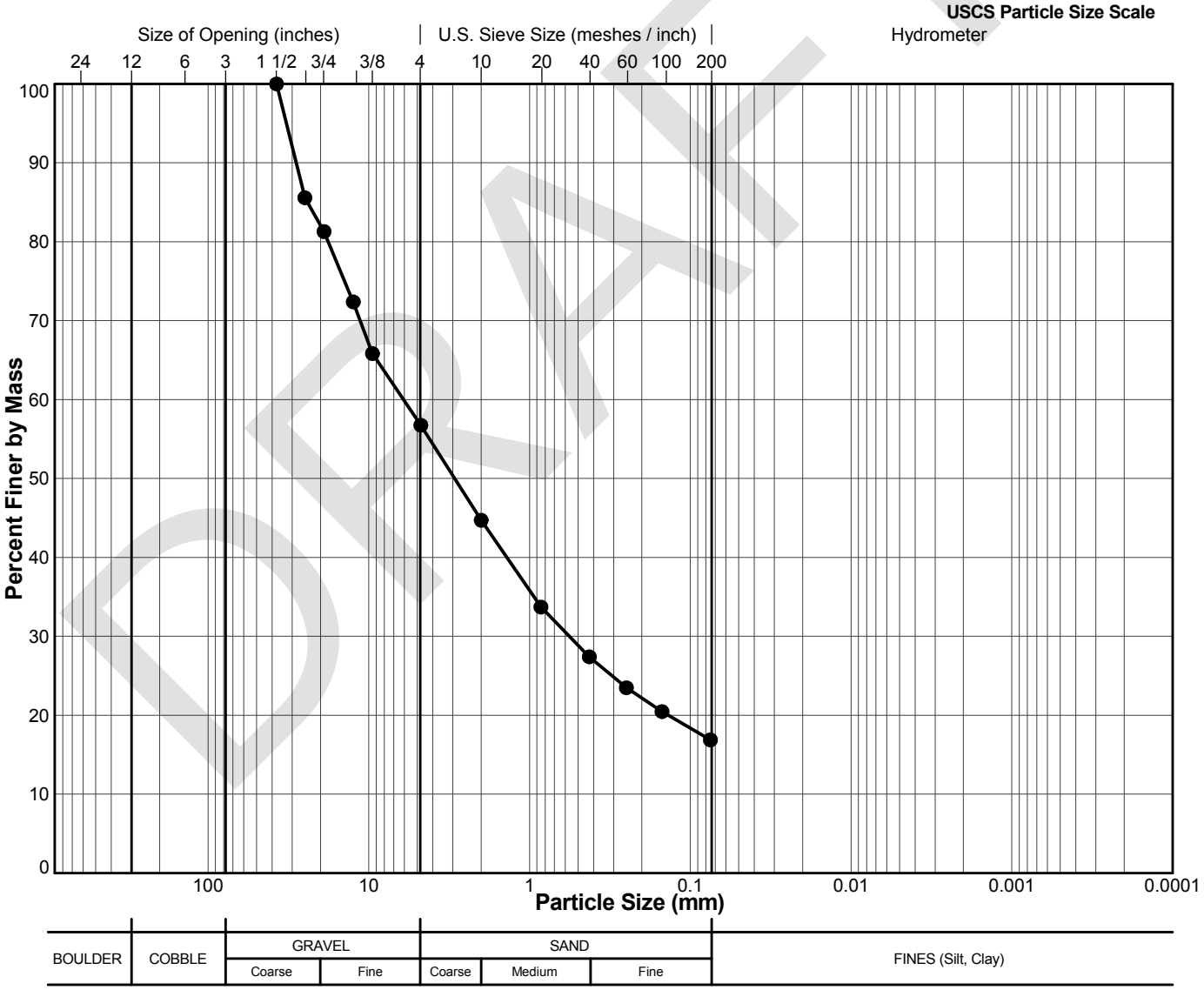
Reference(s)
**ASTM D 422-63 (2007)**

| | |
|---|---|
| **Client:** BGC Engineering Inc | **Sample Location:** TP-BGC10-19 |
| **Project:** Eagle Gold Project | **Sample No.:** M1 |
| **Location:** Yukon | **Depth Interval (m):** 1.00 to 1.00 |
| **Project No.:** 10-1416-0029 **Phase:** 17000 | **Lab Schedule No.:** 230 |

**Other Remarks:** **N/A**

| | |
|---|---|
| **Specific Gravity (assumed): 2.76** | **Shape: N/A** |
| **Max. Particle Size Passing (mm): 37.5** | **Hardness: N/A** |

**Method: Split, Washed**

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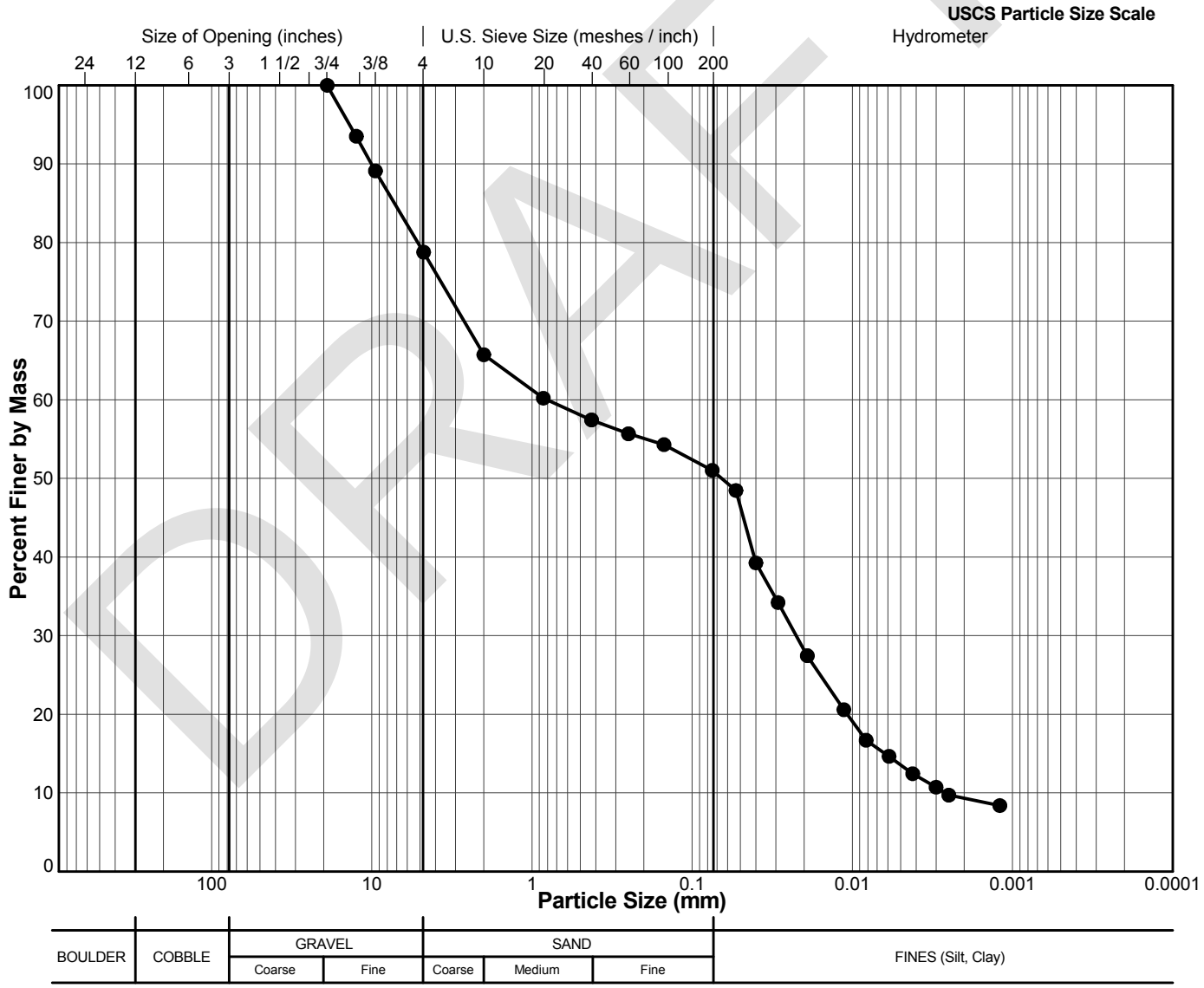
# PARTICLE SIZE ANALYSIS OF SOILS

Reference(s)
**ASTM D 422-63 (2007)**

| | |
|---|---|
| **Client:** BGC Engineering Inc | **Sample Location:** TP-BGC10-21 |
| **Project:** Eagle Gold Project | **Sample No.:** M1 |
| **Location:** Yukon | **Depth Interval (m):** 5.00 to 5.00 |
| **Project No.:** 10-1416-0029 **Phase:** 17000 | **Lab Schedule No.:** 230 |

**Other Remarks:** **N/A**

| | |
|---|---|
| **Specific Gravity (assumed): 2.73** | **Shape: N/A** |
| **Max. Particle Size Passing (mm): 19** | **Hardness: N/A** |
| **Method: Split, Washed** | **Dispersion Method: Stirring** |
| **Hydrometer ID: BURNABY - 87024** | **Dispersion Period (min): 1** |

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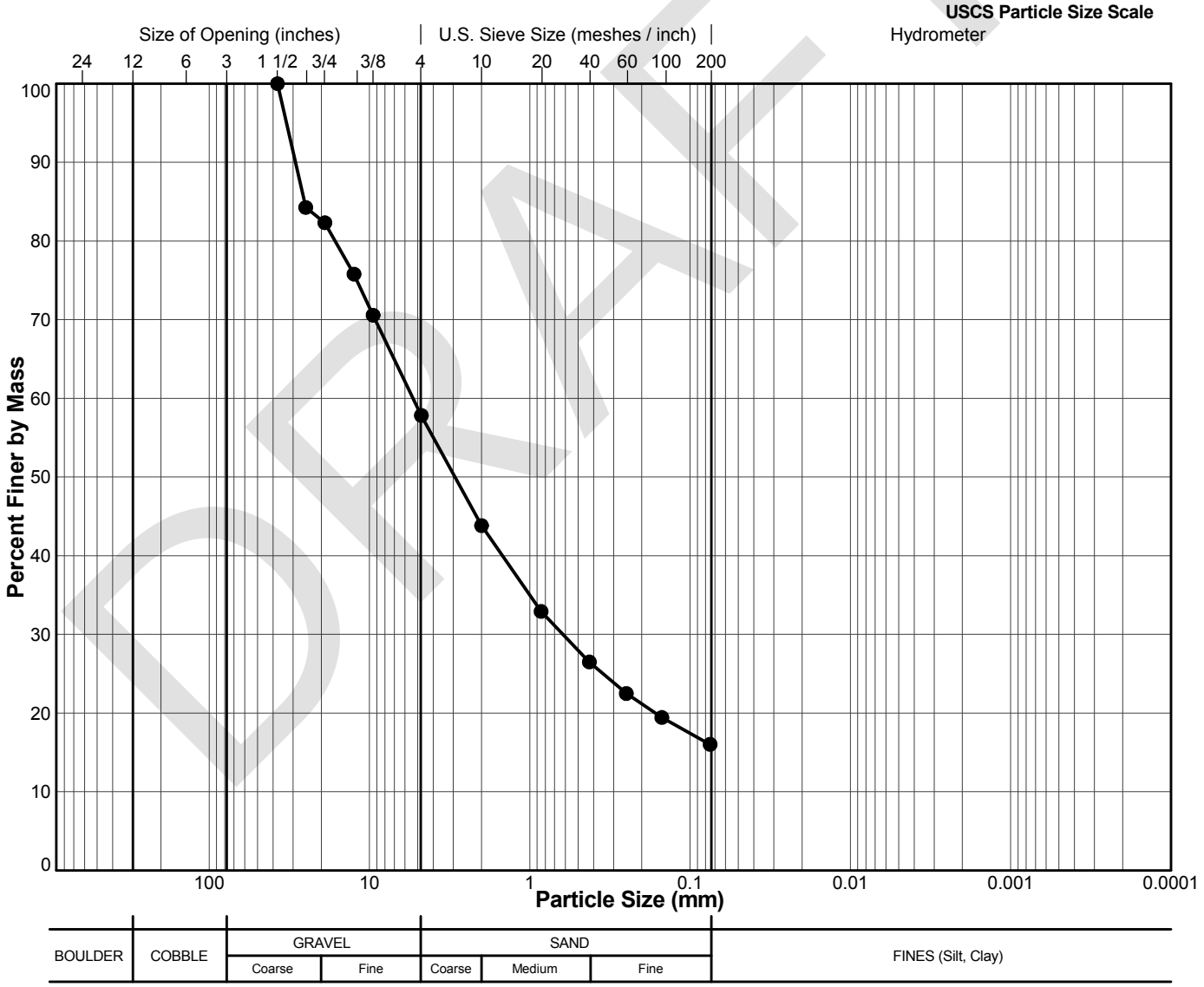
# PARTICLE SIZE ANALYSIS OF SOILS

Reference(s)
**ASTM D 422-63 (2007)**

| | |
|---|---|
| **Client:** BGC Engineering Inc | **Sample Location:** TP-BGC10-21 |
| **Project:** Eagle Gold Project | **Sample No.:** M2 |
| **Location:** Yukon | **Depth Interval (m):** 6.00 to 6.00 |
| **Project No.:** 10-1416-0029 **Phase:** 17000 | **Lab Schedule No.:** 230 |

**Other Remarks:** **N/A**

| | |
|---|---|
| **Specific Gravity (assumed): 2.76** | **Shape: N/A** |
| **Max. Particle Size Passing (mm): 37.5** | **Hardness: N/A** |
| **Method: Split, Washed** | |

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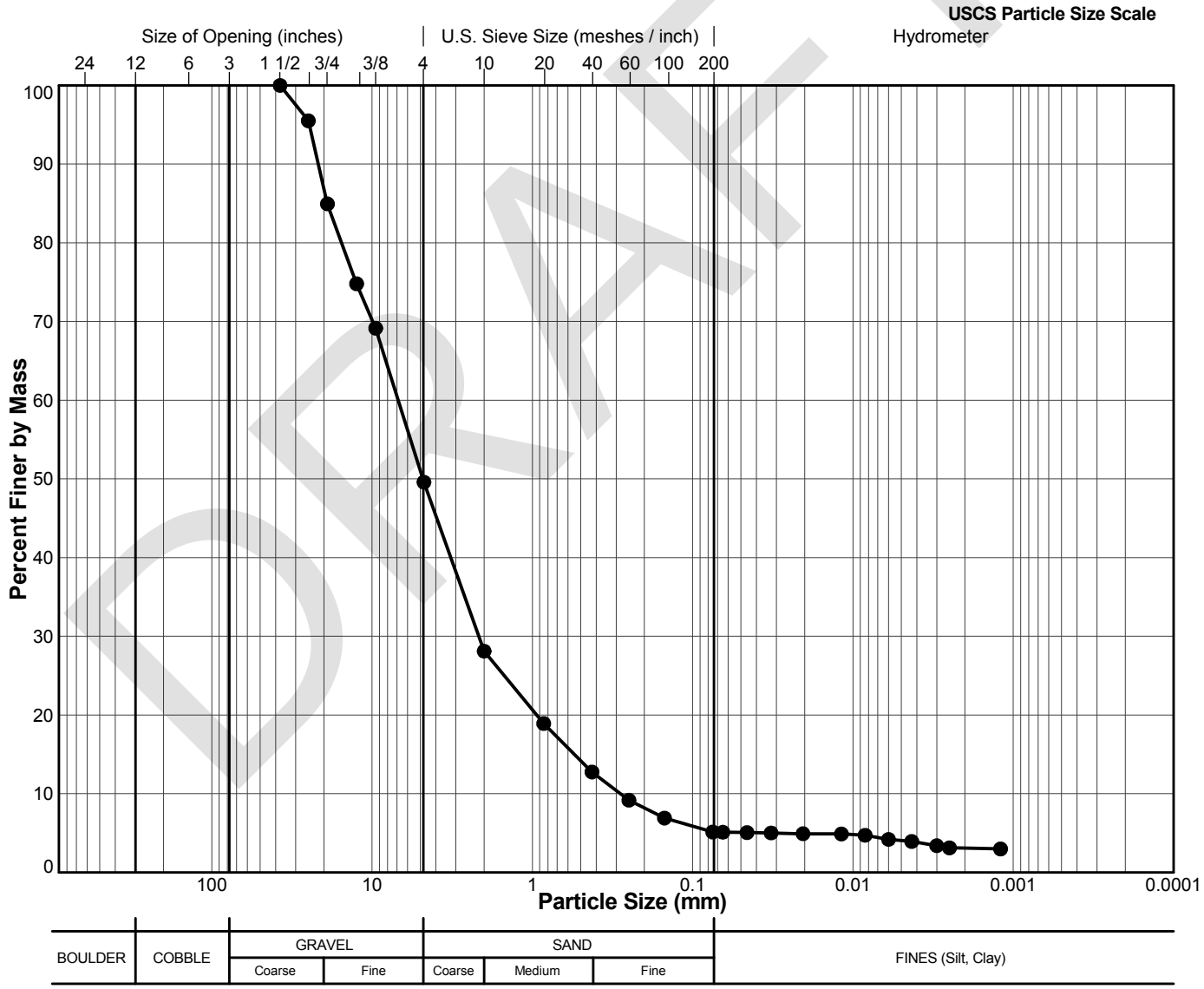
# PARTICLE SIZE ANALYSIS OF SOILS

Reference(s)
**ASTM D 422-63 (2007)**

| | |
|---|---|
| **Client:** BGC Engineering Inc | **Sample Location:** TP-BGC10-26 |
| **Project:** Eagle Gold Project | **Sample No.:** M1 |
| **Location:** Yukon | **Depth Interval (m):** 2.50 to 2.50 |
| **Project No.:** 10-1416-0029 **Phase:** 17000 | **Lab Schedule No.:** 230 |

**Other Remarks:** **N/A**

| | |
|---|---|
| **Specific Gravity (assumed): 2.83** | **Shape: N/A** |
| **Max. Particle Size Passing (mm): 37.5** | **Hardness: N/A** |
| **Method: Split, Washed** | **Dispersion Method: Stirring** |
| **Hydrometer ID: BURNABY - 87024** | **Dispersion Period (min): 1** |



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# PARTICLE SIZE ANALYSIS OF SOILS

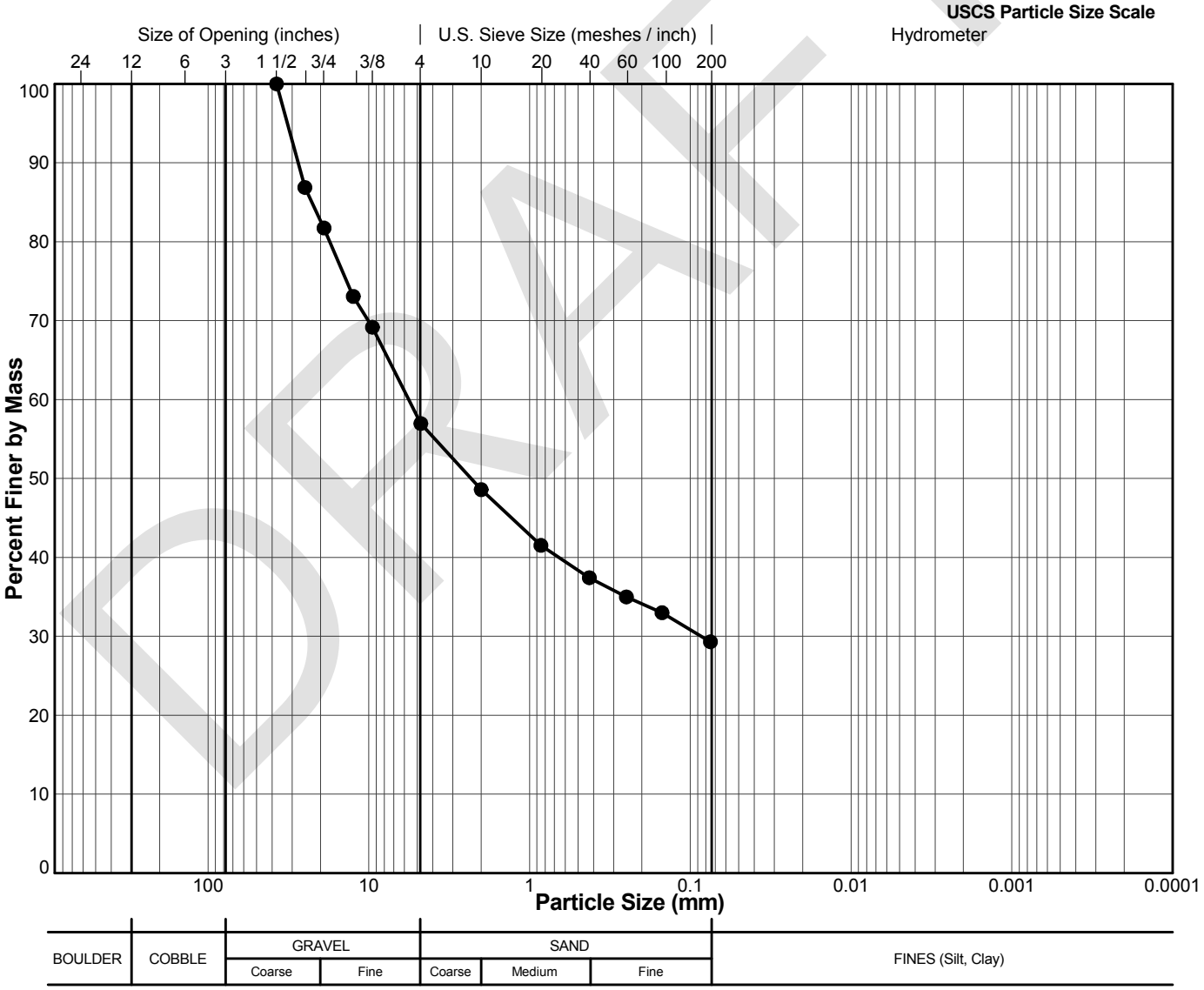
Reference(s)
**ASTM D 422-63 (2007)**

| | |
|---|---|
| **Client:** BGC Engineering Inc | **Sample Location:** TP-BGC10-30 |
| **Project:** Eagle Gold Project | **Sample No.:** M1 |
| **Location:** Yukon | **Depth Interval (m):** 1.00 to 1.00 |
| **Project No.:** 10-1416-0029 **Phase:** 17000 | **Lab Schedule No.:** 230 |

**Other Remarks:** **N/A**

| | |
|---|---|
| **Specific Gravity (assumed): 2.76** | **Shape: N/A** |
| **Max. Particle Size Passing (mm): 37.5** | **Hardness: N/A** |

**Method: Split, Washed**

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# PARTICLE SIZE ANALYSIS OF SOILS

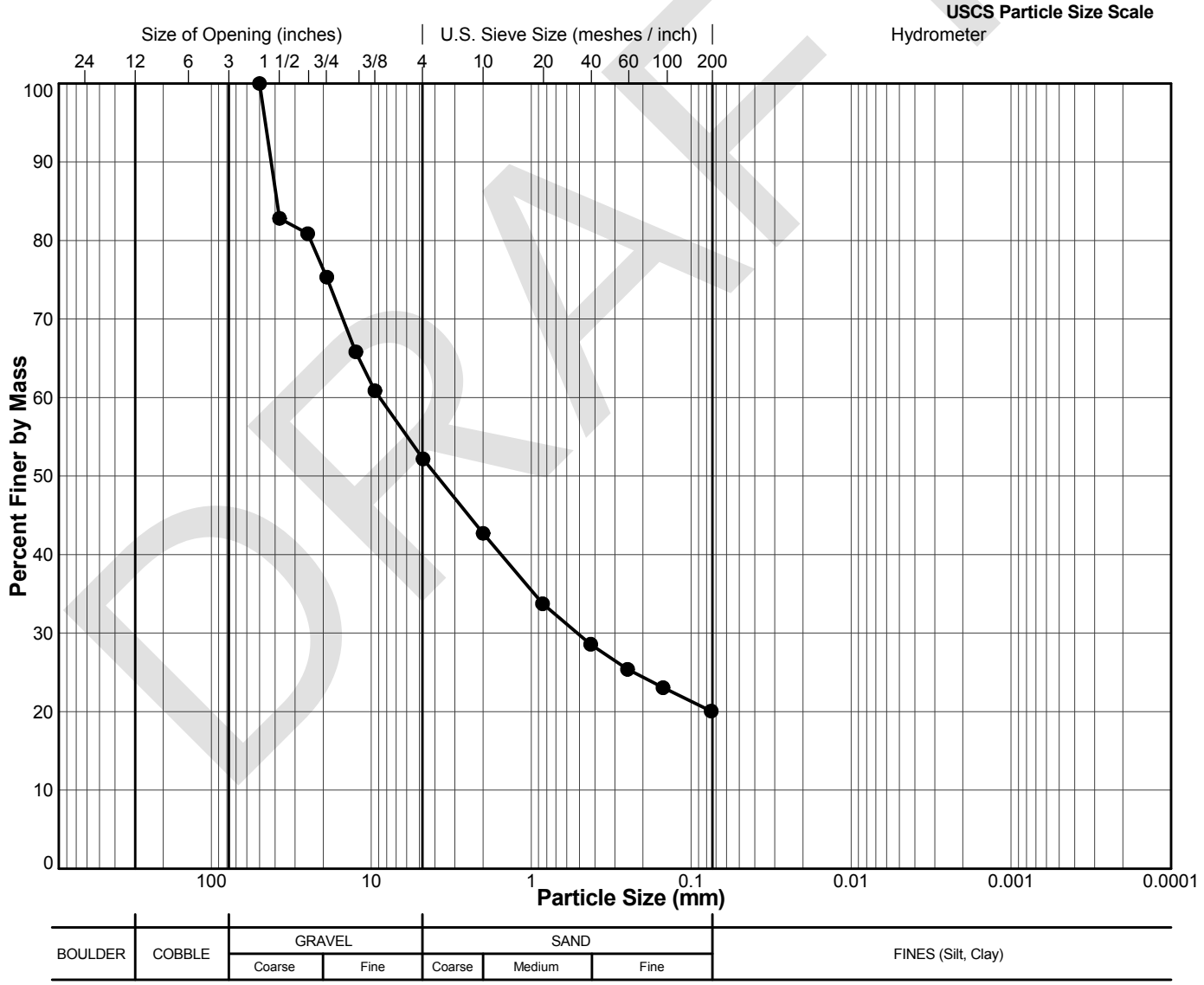
Reference(s)
**ASTM D 422-63 (2007)**

| | |
|---|---|
| **Client:** BGC Engineering Inc | **Sample Location:** TP-BGC10-32 |
| **Project:** Eagle Gold Project | **Sample No.:** M1 |
| **Location:** Yukon | **Depth Interval (m):** 4.00 to 4.00 |
| **Project No.:** 10-1416-0029 **Phase:** 17000 | **Lab Schedule No.:** 230 |

**Other Remarks:** **N/A**

| | |
|---|---|
| **Specific Gravity (assumed): 2.76** | **Shape: N/A** |
| **Max. Particle Size Passing (mm): 50** | **Hardness: N/A** |

**Method: Split, Washed**



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# PARTICLE SIZE ANALYSIS OF SOILS

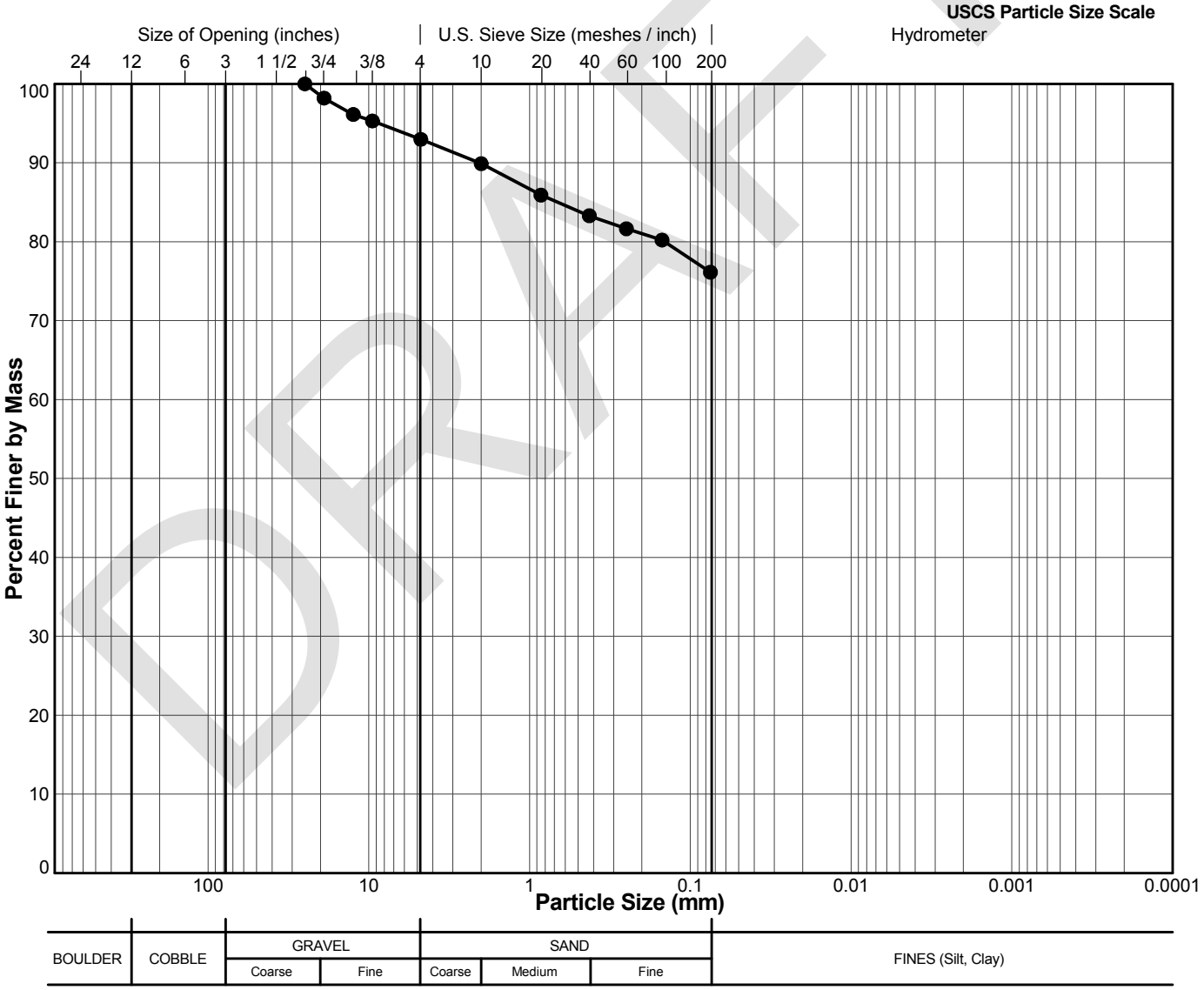
Reference(s)
**ASTM D 422-63 (2007)**

| | |
|---|---|
| **Client:** BGC Engineering Inc | **Sample Location:** TP-BGC10-33 |
| **Project:** Eagle Gold Project | **Sample No.:** M1 |
| **Location:** Yukon | **Depth Interval (m):** 1.00 to 1.00 |
| **Project No.:** 10-1416-0029 **Phase:** 17000 | **Lab Schedule No.:** 230 |

**Other Remarks:** **N/A**

| | |
|---|---|
| **Specific Gravity (assumed): 2.76** | **Shape: N/A** |
| **Max. Particle Size Passing (mm): 25** | **Hardness: N/A** |

**Method: Split, Washed**

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# PARTICLE SIZE ANALYSIS OF SOILS

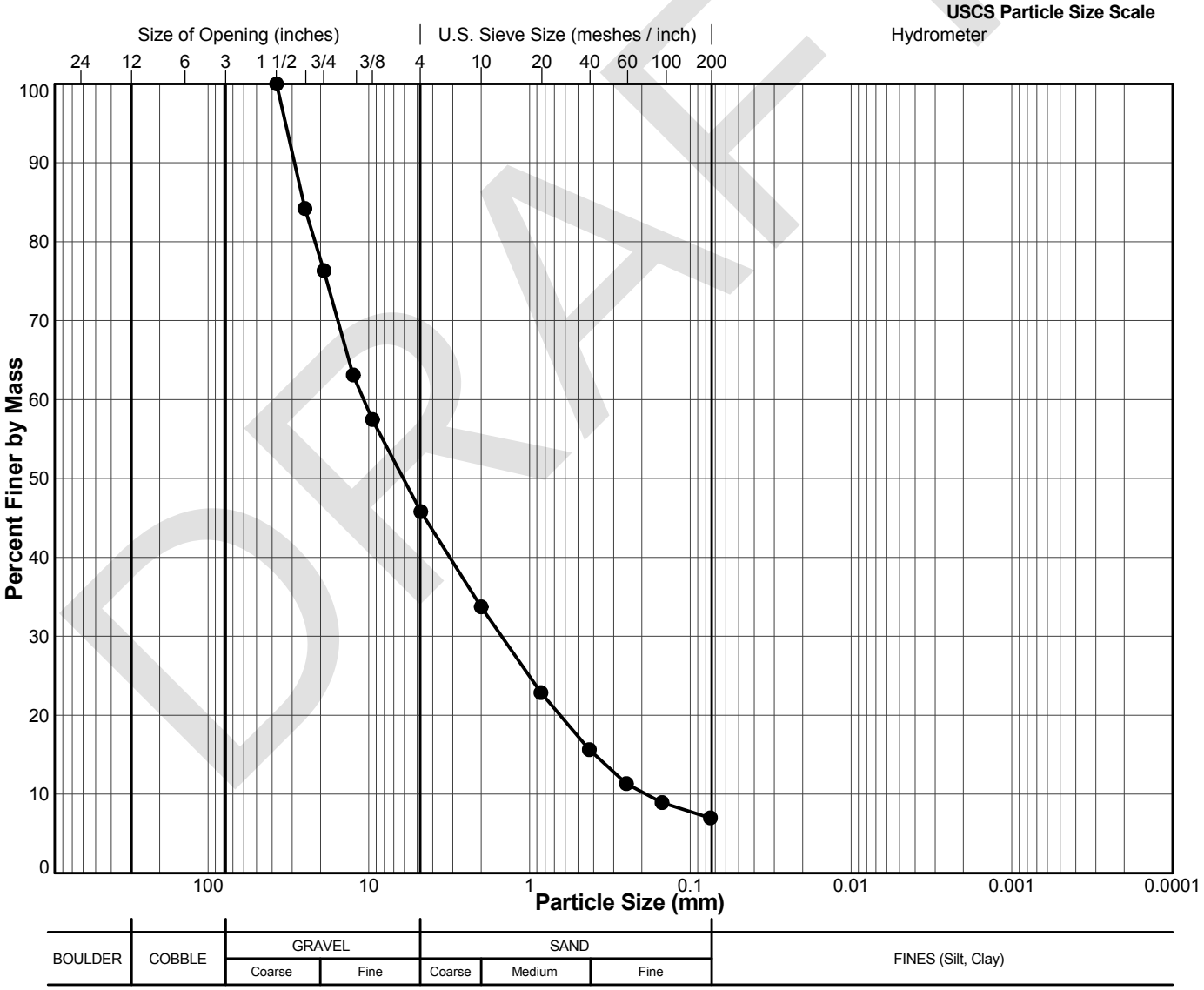
Reference(s)
**ASTM D 422-63 (2007)**

| | |
|---|---|
| **Client:** BGC Engineering Inc | **Sample Location:** TP-BGC10-33 |
| **Project:** Eagle Gold Project | **Sample No.:** M2 |
| **Location:** Yukon | **Depth Interval (m):** 2.00 to 2.00 |
| **Project No.:** 10-1416-0029 **Phase:** 17000 | **Lab Schedule No.:** 230 |

**Other Remarks:** **N/A**

| | |
|---|---|
| **Specific Gravity (assumed): 2.76** | **Shape: N/A** |
| **Max. Particle Size Passing (mm): 37.5** | **Hardness: N/A** |

**Method: Combined, Washed**

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| **KG/EB** | **11/23/2010** | | |
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# PARTICLE SIZE ANALYSIS OF SOILS

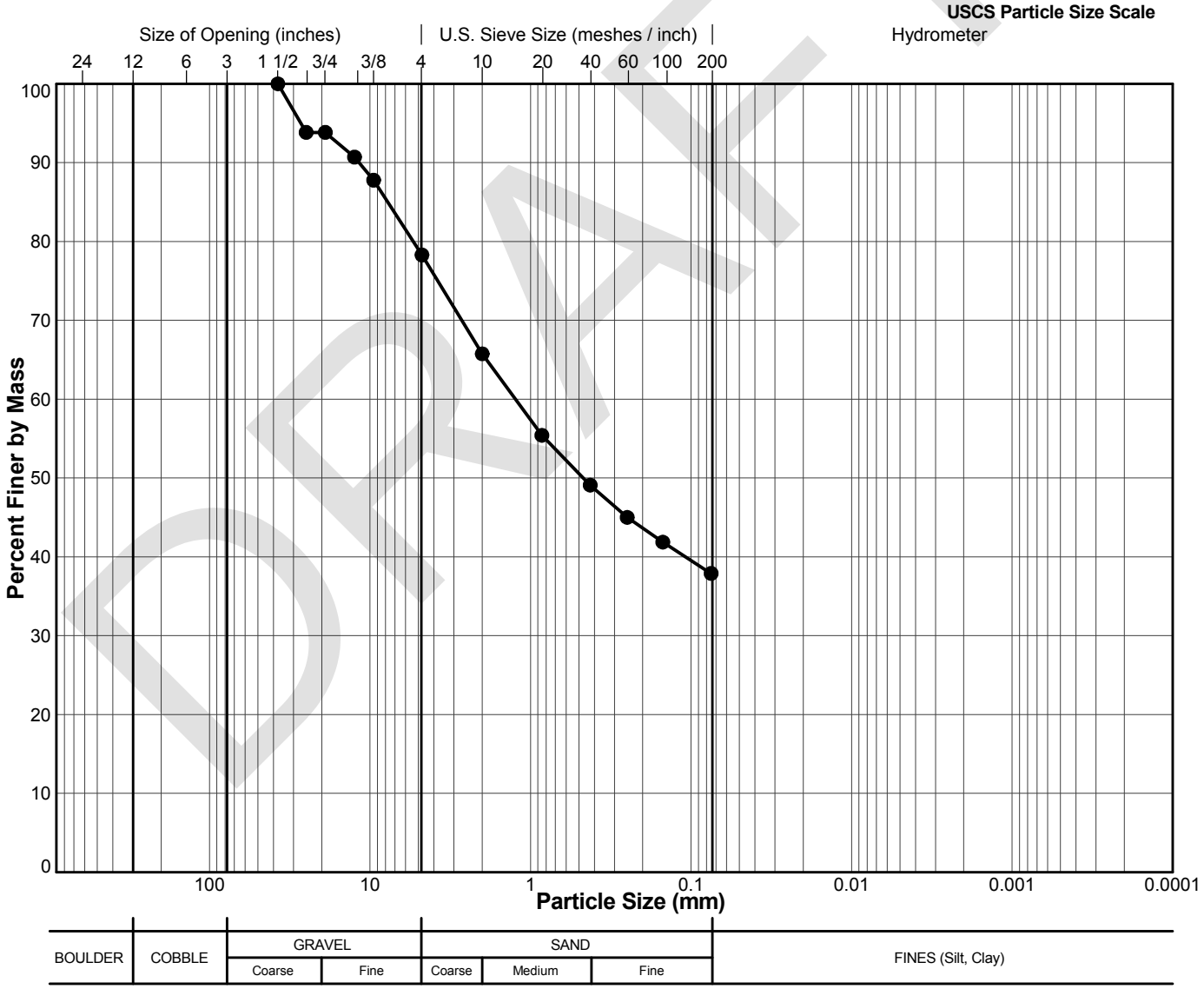
Reference(s)
**ASTM D 422-63 (2007)**

| | |
|---|---|
| **Client:** BGC Engineering Inc | **Sample Location:** TP-BGC10-34 |
| **Project:** Eagle Gold Project | **Sample No.:** M1 |
| **Location:** Yukon | **Depth Interval (m):** 4.00 to 4.00 |
| **Project No.:** 10-1416-0029 **Phase:** 17000 | **Lab Schedule No.:** 230 |

**Other Remarks:** **N/A**

| | |
|---|---|
| **Specific Gravity (assumed): 2.76** | **Shape: N/A** |
| **Max. Particle Size Passing (mm): 37.5** | **Hardness: N/A** |

**Method: Split, Washed**

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# PARTICLE SIZE ANALYSIS OF SOILS

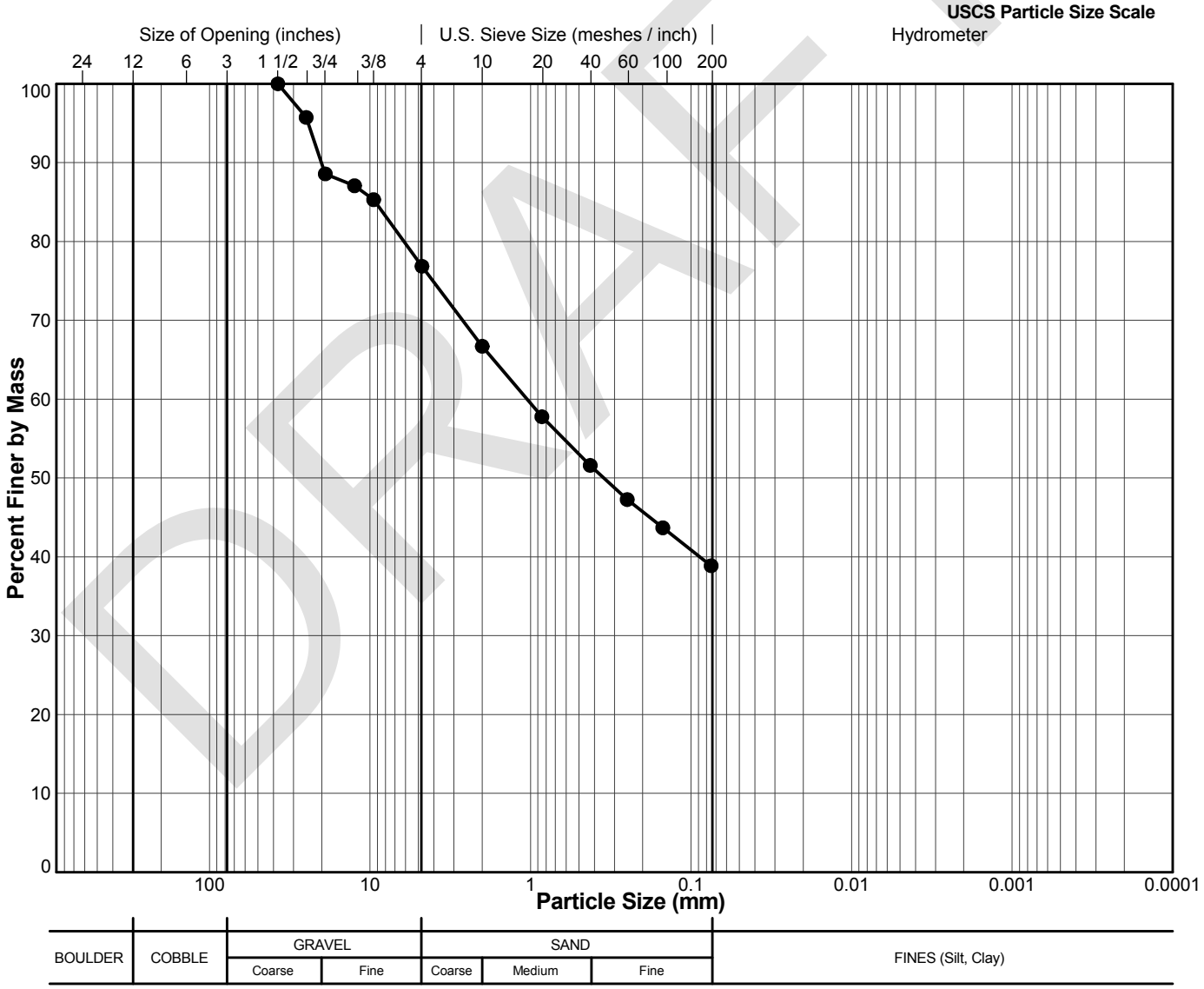
Reference(s)
**ASTM D 422-63 (2007)**

| | |
|---|---|
| **Client:** BGC Engineering Inc | **Sample Location:** TP-BGC10-37 |
| **Project:** Eagle Gold Project | **Sample No.:** M2 |
| **Location:** Yukon | **Depth Interval (m):** 6.00 to 6.00 |
| **Project No.:** 10-1416-0029 **Phase:** 17000 | **Lab Schedule No.:** 230 |

**Other Remarks:** **N/A**

| | |
|---|---|
| **Specific Gravity (assumed): 2.76** | **Shape: N/A** |
| **Max. Particle Size Passing (mm): 37.5** | **Hardness: N/A** |

**Method: Split, Washed**

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# PARTICLE SIZE ANALYSIS OF SOILS

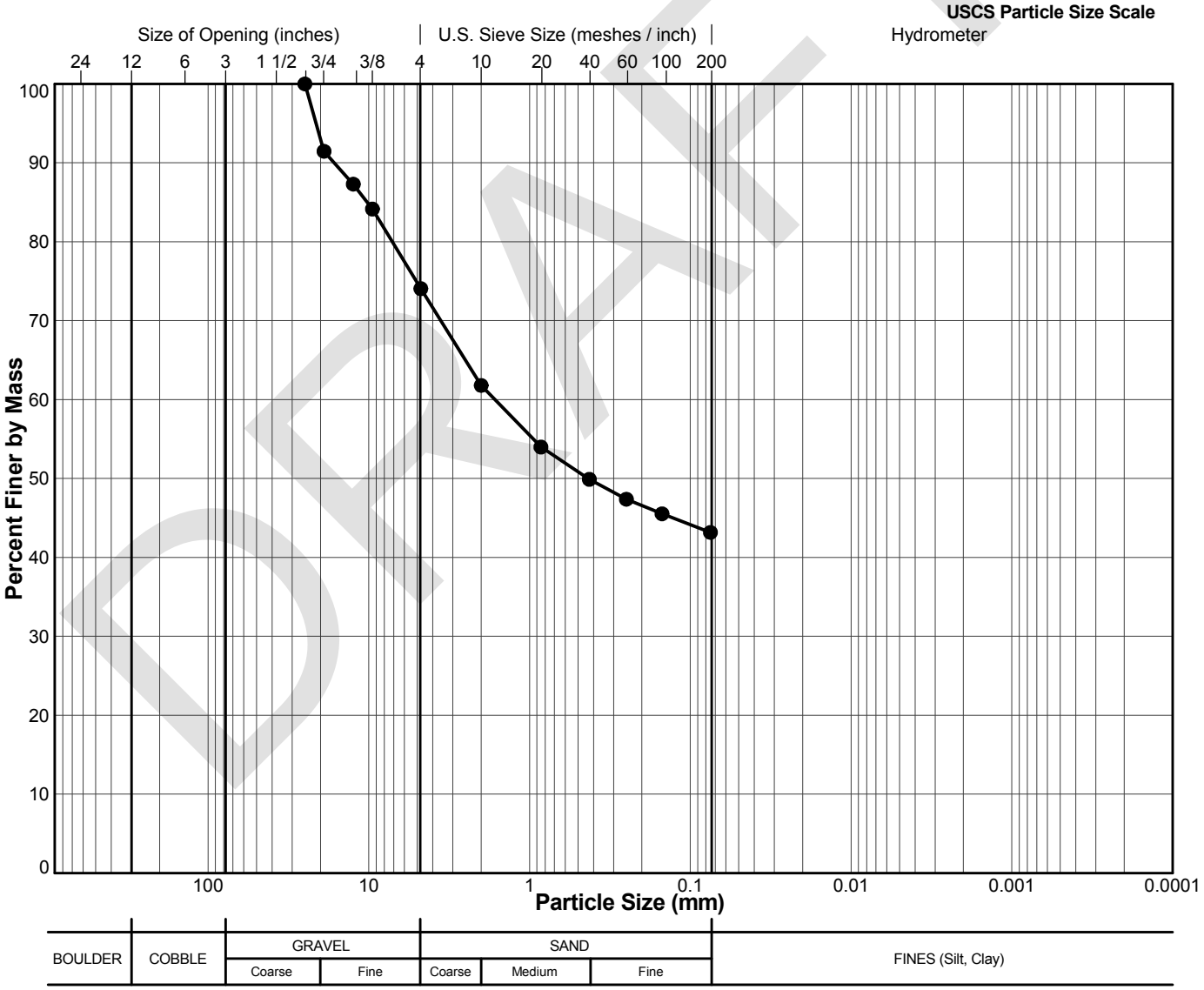
Reference(s)
**ASTM D 422-63 (2007)**

| | |
|---|---|
| **Client:** BGC Engineering Inc | **Sample Location:** TP-BGC10-42 |
| **Project:** Eagle Gold Project | **Sample No.:** M2 |
| **Location:** Yukon | **Depth Interval (m):** 2.00 to 2.00 |
| **Project No.:** 10-1416-0029 **Phase:** 17000 | **Lab Schedule No.:** 230 |

**Other Remarks:** **N/A**

| | |
|---|---|
| **Specific Gravity (assumed): 2.76** | **Shape: N/A** |
| **Max. Particle Size Passing (mm): 25** | **Hardness: N/A** |

**Method: Split, Washed**




| | | | |
|---|---|---|---|
| **KG/EB** | **11/24/2010** | | |
| Tech | Date | Checked | Date |





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# PARTICLE SIZE ANALYSIS OF SOILS

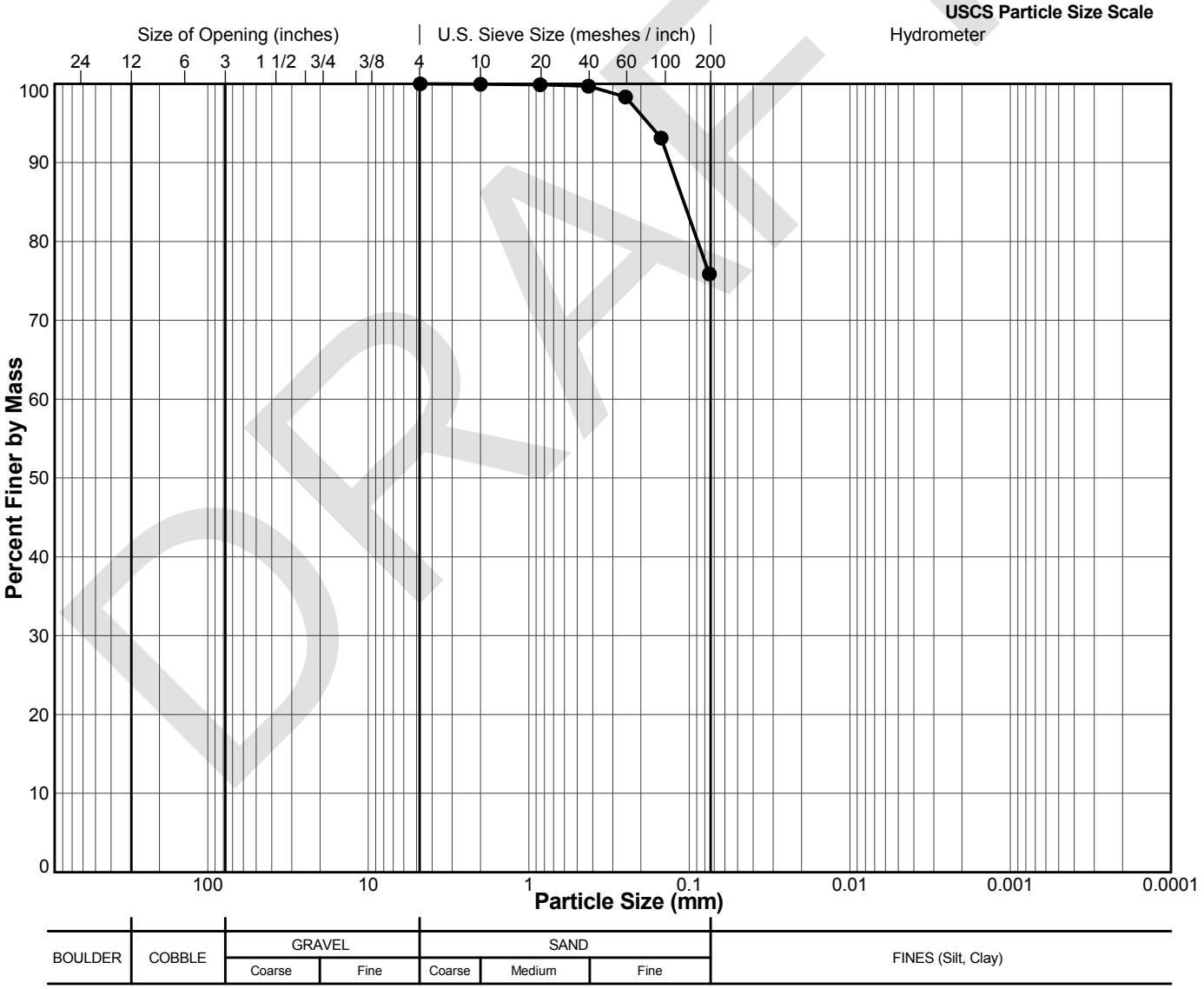
Reference(s)
**ASTM D 422-63 (2007)**

| | |
|---|---|
| **Client:** BGC Engineering Inc | **Sample Location:** TP-BGC10-43 |
| **Project:** Eagle Gold Project | **Sample No.:** M2 |
| **Location:** Yukon | **Depth Interval (m):** 4.00 to 4.00 |
| **Project No.:** 10-1416-0029 **Phase:** 17000 | **Lab Schedule No.:** 230 |

**Other Remarks:** **N/A**

| | |
|---|---|
| **Specific Gravity (assumed): 2.76** | **Shape: N/A** |
| **Max. Particle Size Passing (mm): 4.75** | **Hardness: N/A** |

**Method: Split, Washed**




| | | | |
|---|---|---|---|
| **KG/EB** | **11/25/2010** | | |
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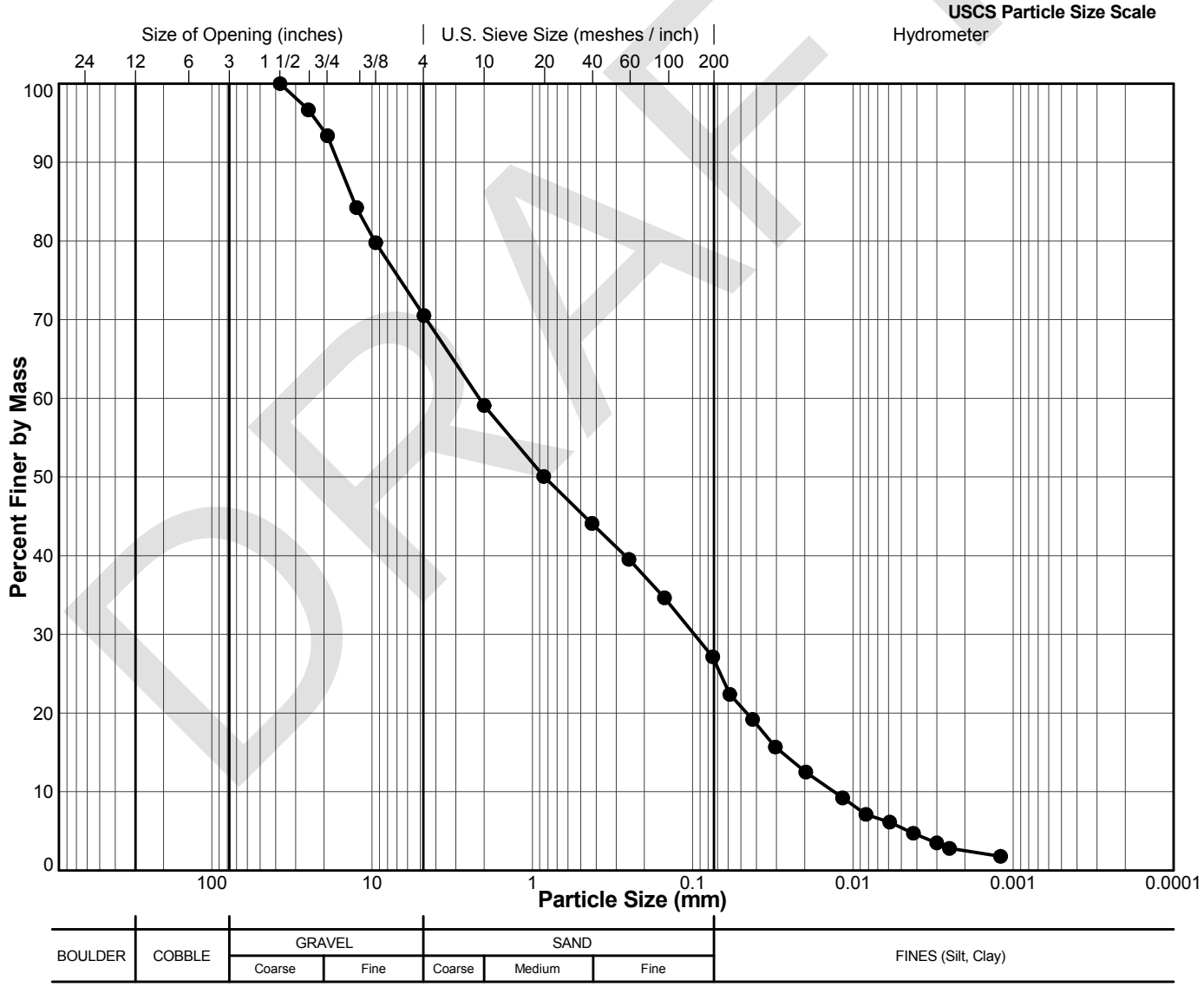
# PARTICLE SIZE ANALYSIS OF SOILS

Reference(s)
**ASTM D 422-63 (2007)**

| | |
|---|---|
| **Client:** BGC Engineering Inc | **Sample Location:** TP-BGC10-43 |
| **Project:** Eagle Gold Project | **Sample No.:** M3 |
| **Location:** Yukon | **Depth Interval (m):** 5.20 to 5.20 |
| **Project No.:** 10-1416-0029 **Phase:** 17000 | **Lab Schedule No.:** 230 |

**Other Remarks:** **N/A**

| | |
|---|---|
| **Specific Gravity (assumed): 2.76** | **Shape: N/A** |
| **Max. Particle Size Passing (mm): 37.5** | **Hardness: N/A** |
| **Method: Split, Washed** | **Dispersion Method: Stirring** |
| **Hydrometer ID: BURNABY - 541360** | **Dispersion Period (min): 1** |




| | | | |
|---|---|---|---|
| **KG/EB** | **11/30/2010** | | |
| Tech | Date | Checked | Date |





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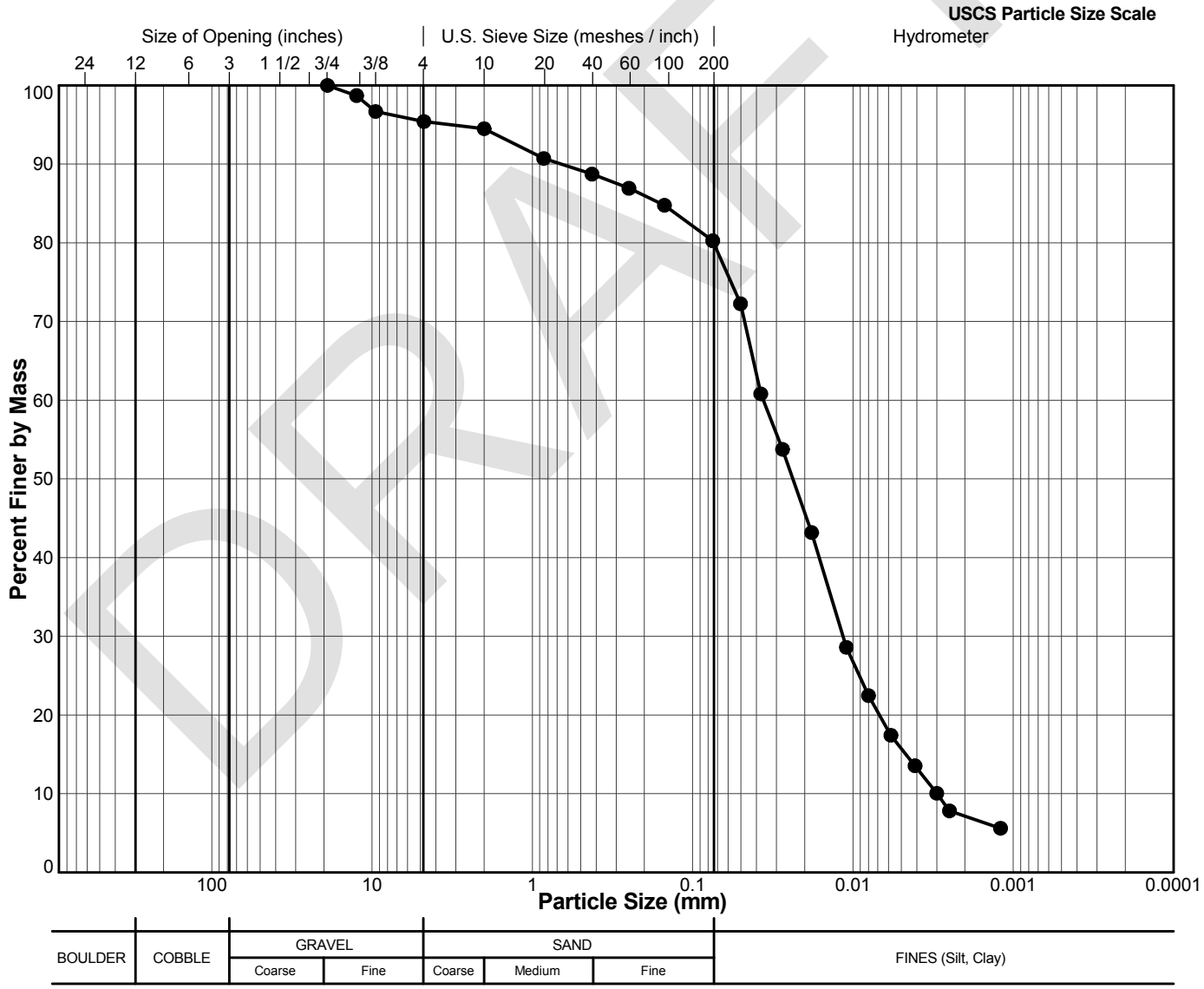
# PARTICLE SIZE ANALYSIS OF SOILS

Reference(s)
**ASTM D 422-63 (2007)**

| | |
|---|---|
| **Client:** BGC Engineering Inc | **Sample Location:** TP-BGC10-45 |
| **Project:** Eagle Gold Project | **Sample No.:** M1 |
| **Location:** Yukon | **Depth Interval (m):** 5.50 to 5.50 |
| **Project No.:** 10-1416-0029 **Phase:** 17000 | **Lab Schedule No.:** 230 |

**Other Remarks:** **N/A**

| | |
|---|---|
| **Specific Gravity (assumed): 2.65** | **Shape: N/A** |
| **Max. Particle Size Passing (mm): 19** | **Hardness: N/A** |
| **Method: Split, Washed** | **Dispersion Method: Stirring** |
| **Hydrometer ID: BURNABY - 541360** | **Dispersion Period (min): 1** |




| | | | |
|---|---|---|---|
| **KG/EB** | **11/30/2010** | | |
| Tech | Date | Checked | Date |





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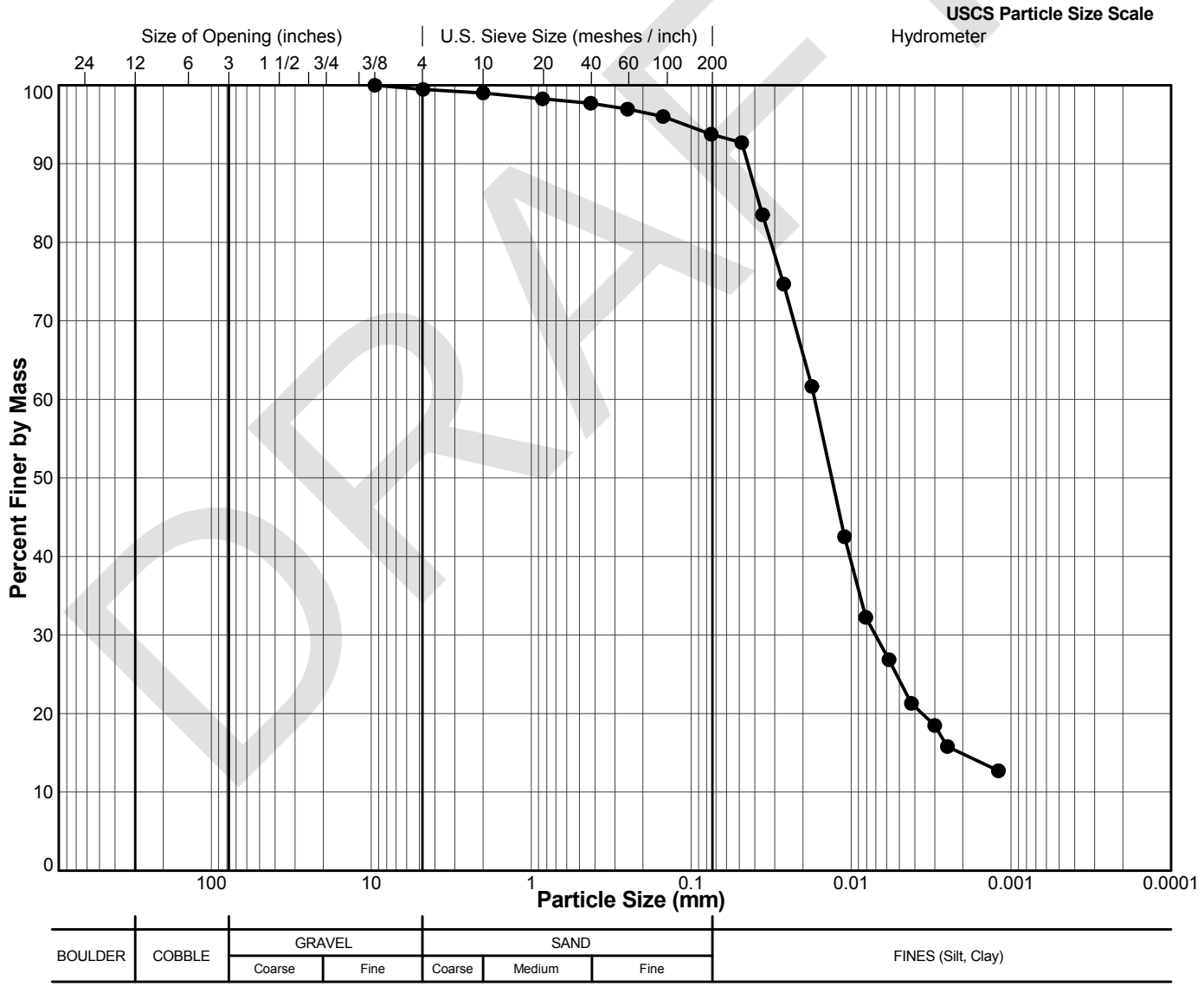
# PARTICLE SIZE ANALYSIS OF SOILS

Reference(s)
**ASTM D 422-63 (2007)**

| | |
|---|---|
| **Client:** BGC Engineering Inc | **Sample Location:** TP-BGC10-48 |
| **Project:** Eagle Gold Project | **Sample No.:** M2 |
| **Location:** Yukon | **Depth Interval (m):** 3.00 to 3.00 |
| **Project No.:** 10-1416-0029 **Phase:** 17000 | **Lab Schedule No.:** 230 |

**Other Remarks:** **N/A**

| | |
|---|---|
| **Specific Gravity (assumed): 2.7** | **Shape: N/A** |
| **Max. Particle Size Passing (mm): 9.5** | **Hardness: N/A** |
| **Method: Split, Washed** | **Dispersion Method: Stirring** |
| **Hydrometer ID: BURNABY - 87024** | **Dispersion Period (min): 1** |




| KG/EB | 11/30/2010 | | |
|---|---|---|---|
| Tech | Date | Checked | Date |





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# PARTICLE SIZE ANALYSIS OF SOILS

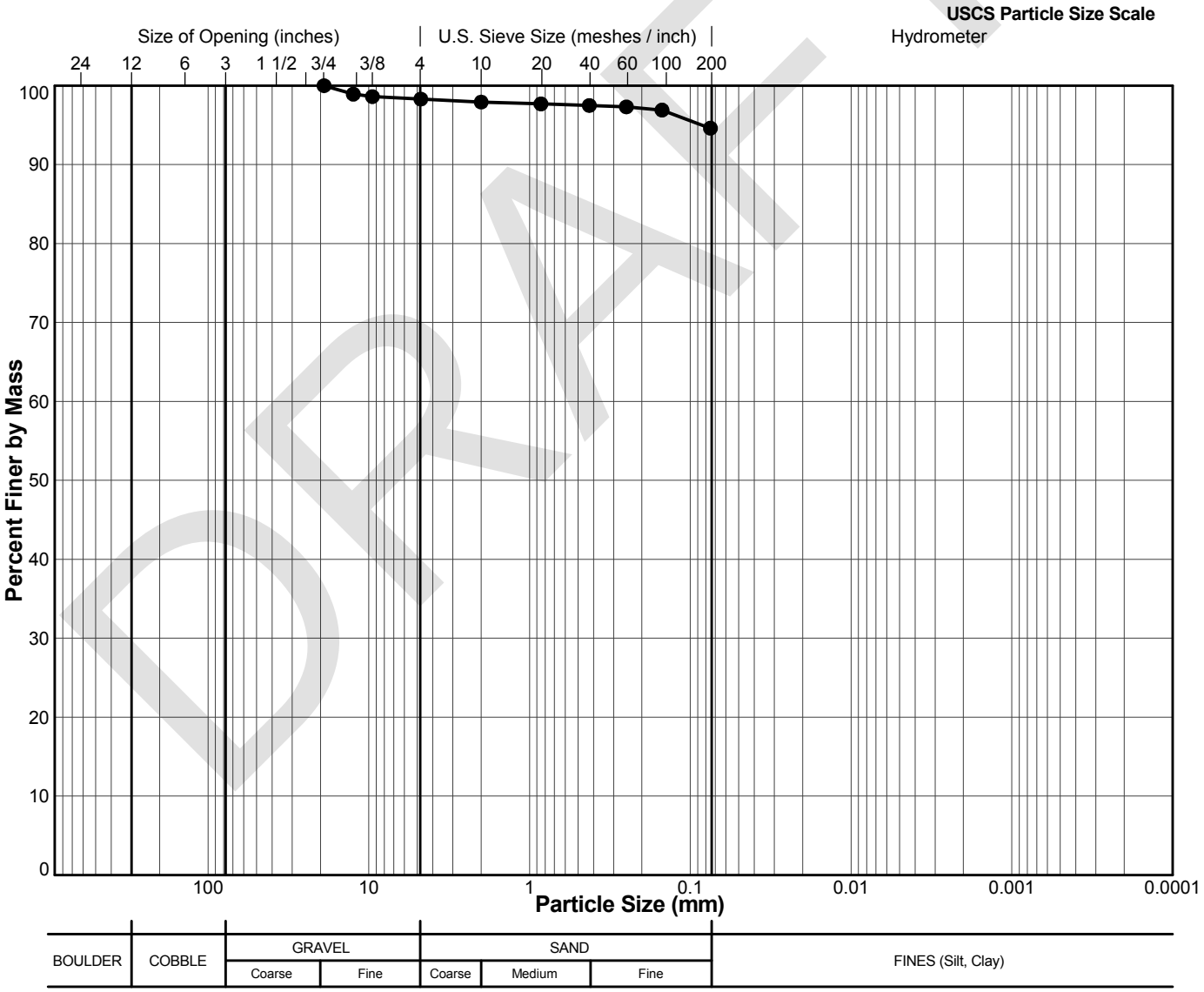
Reference(s)
**ASTM D 422-63 (2007)**

| | |
|---|---|
| **Client:** BGC Engineering Inc | **Sample Location:** TP-BGC10-49 |
| **Project:** Eagle Gold Project | **Sample No.:** M1 |
| **Location:** Yukon | **Depth Interval (m):** 2.50 to 2.50 |
| **Project No.:** 10-1416-0029 **Phase:** 17000 | **Lab Schedule No.:** 230 |

**Other Remarks:** **N/A**

| | |
|---|---|
| **Specific Gravity (assumed): 2.76** | **Shape: N/A** |
| **Max. Particle Size Passing (mm): 19** | **Hardness: N/A** |

**Method: Split, Washed**




| | | | |
|---|---|---|---|
| **KG/EB** | **11/25/2010** | | |
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# LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS

Reference(s)
**ASTM D 4318-05**

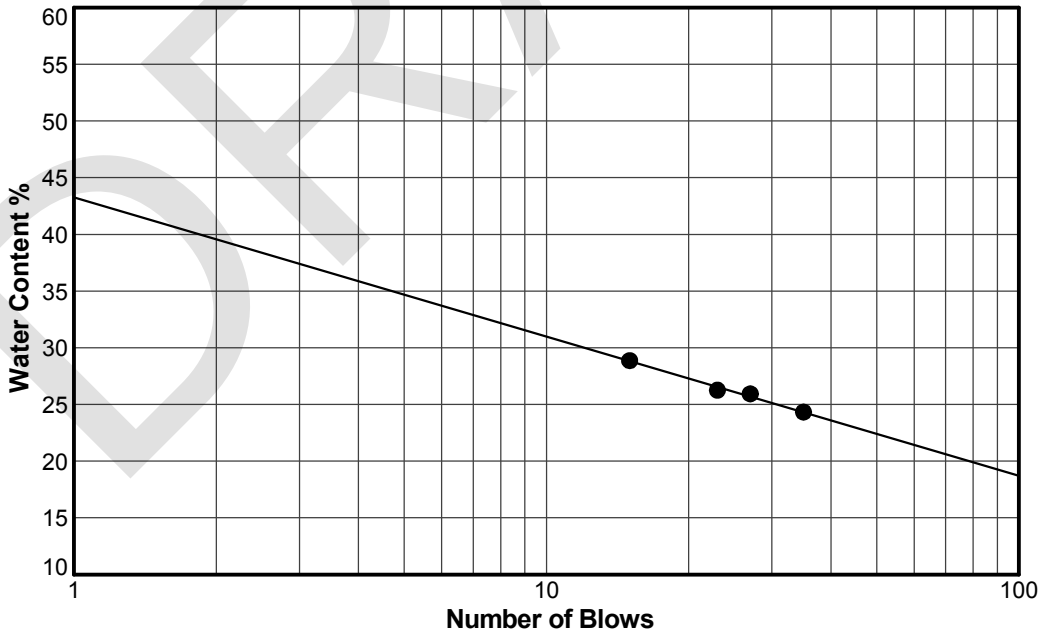
| | | | |
|---|---|---|---|
| **Client:** | BGC Engineering Inc | **Sample Location:** | TP-BGC10-12 |
| **Project:** | Eagle Gold Project | **Sample No.:** | M2 |
| **Location:** | Yukon | **Depth Interval (m):** | 3.00 to 3.00 |
| **Project No.:** | 10-1416-0029 **Phase:** 17000 | **Lab Schedule No.:** | 230 |

**Classification and Definition:** **CL** - Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays.

**Other Remarks:** **N/A**

**Test Method: A-Multi Point** | **Preparation Method: Air Dried**

| SUMMARY | |
|---|---|
| **Percent Passing #40 Sieve (%)** | **44** |
| **Liquid Limit** | **26** |
| **Plastic Limit** | **17** |
| **Plasticity Index** | **9** |
| **Natural Water Content (%)** | **13.6** |
| **Liquidity Index** | **-0.4** |




***Note: The test data given herein pertain to the sample provided only. This report constitutes a testing service only.***

| TM | 11/30/2010 | | |
|---|---|---|---|
| Tech | Date | Checked | Date |





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# LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS

Reference(s)
**ASTM D 4318-05**

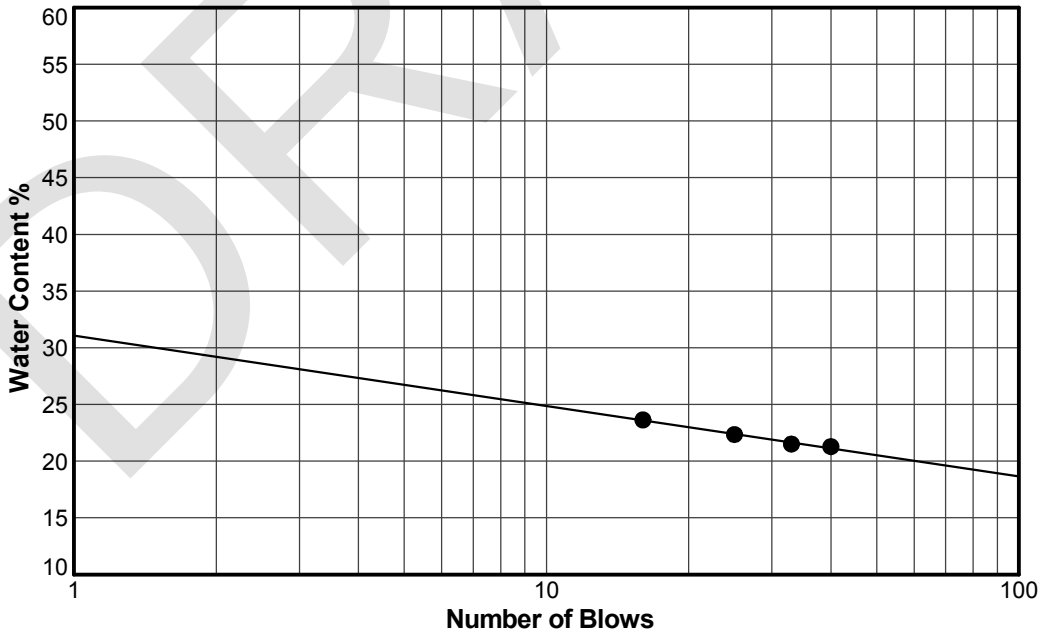
| | | | |
|---|---|---|---|
| **Client:** | BGC Engineering Inc | **Sample Location:** | TP-BGC10-18 |
| **Project:** | Eagle Gold Project | **Sample No.:** | M2 |
| **Location:** | Yukon | **Depth Interval (m):** | 5.00 to 5.00 |
| **Project No.:** | 10-1416-0029 **Phase:** 17000 | **Lab Schedule No.:** | 230 |

**Classification and Definition:** **CL** - Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays.

**Other Remarks:** **N/A**

**Test Method: A-Multi Point** | **Preparation Method: Air Dried**

| SUMMARY | |
|---|---|
| **Percent Passing #40 Sieve (%)** | **42** |
| **Liquid Limit** | **22** |
| **Plastic Limit** | **14** |
| **Plasticity Index** | **8** |
| **Natural Water Content (%)** | **11.0** |
| **Liquidity Index** | **-0.4** |




***Note: The test data given herein pertain to the sample provided only. This report constitutes a testing service only.***

| TM | 11/30/2010 | | |
|---|---|---|---|
| Tech | Date | Checked | Date |





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# LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS

Reference(s)
**ASTM D 4318-05**

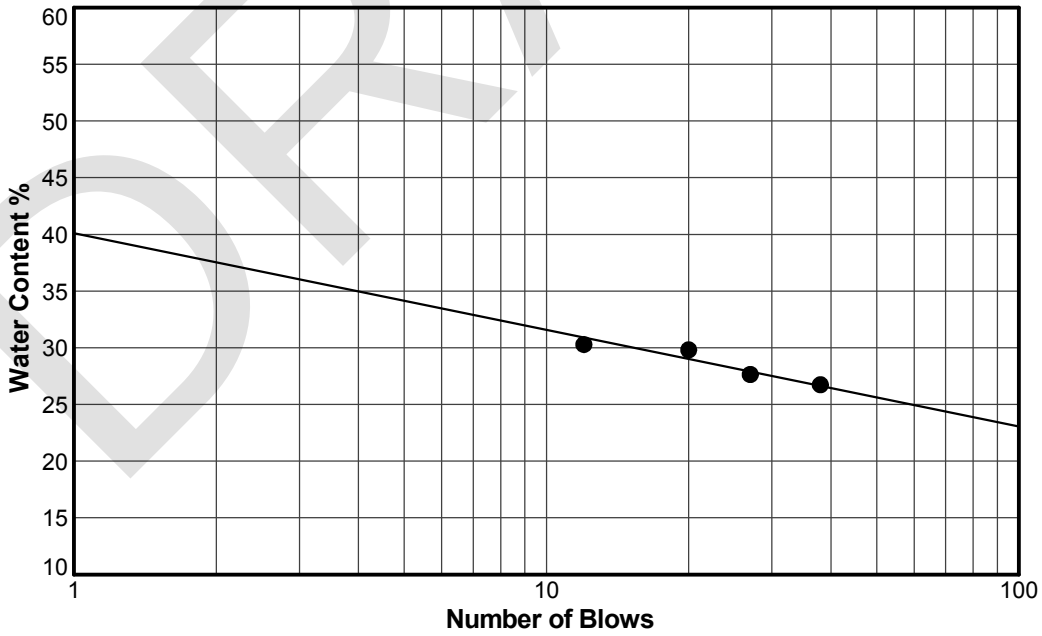
| | | | |
|---|---|---|---|
| **Client:** | BGC Engineering Inc | **Sample Location:** | TP-BGC10-21 |
| **Project:** | Eagle Gold Project | **Sample No.:** | M1 |
| **Location:** | Yukon | **Depth Interval (m):** | 5.00 to 5.00 |
| **Project No.:** | 10-1416-0029 **Phase:** 17000 | **Lab Schedule No.:** | 230 |

**Classification and Definition:** **ML** - Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity.

**Other Remarks:** **N/A**

| | |
|---|---|
| **Test Method: A-Multi Point** | **Preparation Method: Air Dried** |

| SUMMARY | |
|---|---|
| **Percent Passing #40 Sieve (%)** | **57** |
| **Liquid Limit** | **28** |
| **Plastic Limit** | **24** |
| **Plasticity Index** | **4** |
| **Natural Water Content (%)** | **20.0** |
| **Liquidity Index** | **-1.0** |




***Note: The test data given herein pertain to the sample provided only. This report constitutes a testing service only.***

| TM | 11/30/2010 | | |
|---|---|---|---|
| Tech | Date | Checked | Date |





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# LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS

Reference(s)
**ASTM D 4318-05**

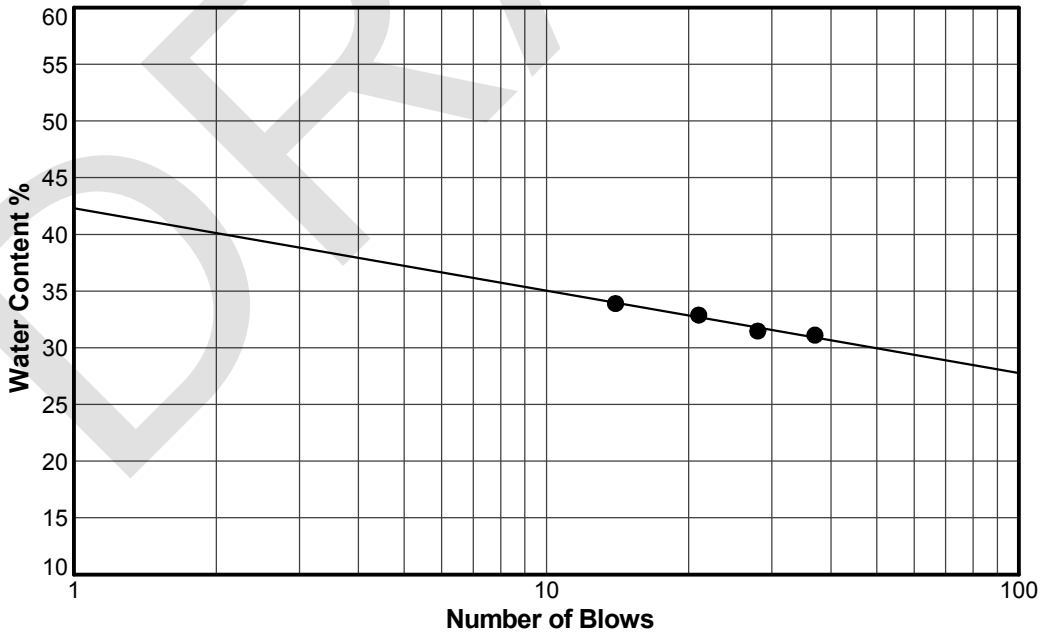
| | | | |
|---|---|---|---|
| **Client:** | BGC Engineering Inc | **Sample Location:** | TP-BGC10-45 |
| **Project:** | Eagle Gold Project | **Sample No.:** | M1 |
| **Location:** | Yukon | **Depth Interval (m):** | 5.50 to 5.50 |
| **Project No.:** | 10-1416-0029 **Phase:** 17000 | **Lab Schedule No.:** | 230 |

**Classification and Definition:** **ML** - Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity.

**Other Remarks:** **N/A**

**Test Method: A-Multi Point** | **Preparation Method: Air Dried**

| SUMMARY | |
|---|---|
| **Percent Passing #40 Sieve (%)** | **89** |
| **Liquid Limit** | **32** |
| **Plastic Limit** | **26** |
| **Plasticity Index** | **6** |
| **Natural Water Content (%)** | **21.5** |
| **Liquidity Index** | **-0.7** |




***Note: The test data given herein pertain to the sample provided only. This report constitutes a testing service only.***

| | | | |
|---|---|---|---|
| **EB** | **12/3/2010** | | |
| Tech | Date | Checked | Date |





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# LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS

Reference(s)
**ASTM D 4318-05**

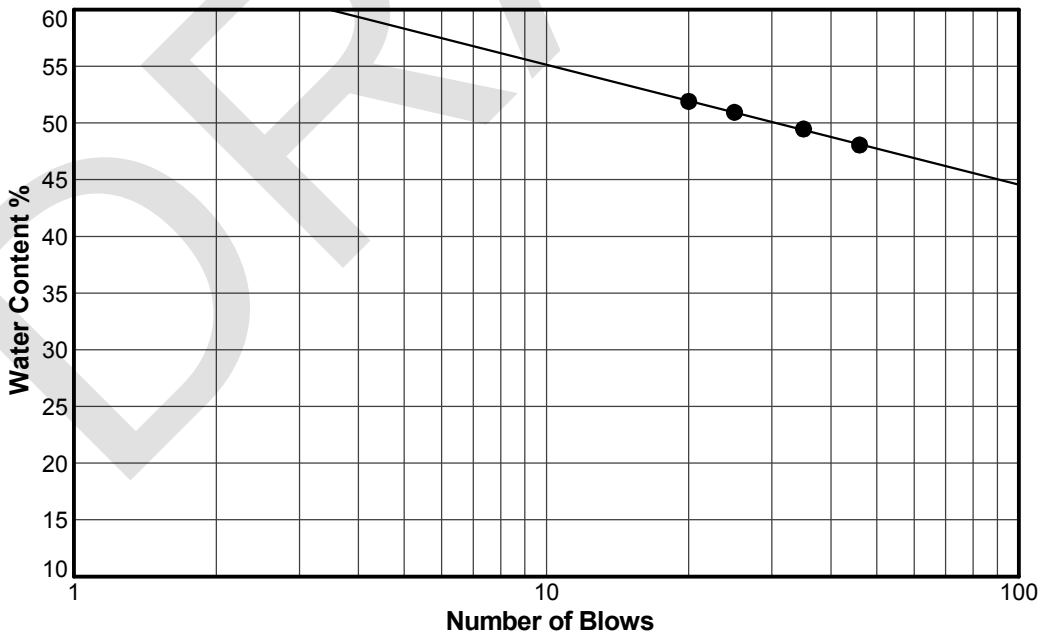
| | | | |
|---|---|---|---|
| **Client:** | BGC Engineering Inc | **Sample Location:** | TP-BGC10-48 |
| **Project:** | Eagle Gold Project | **Sample No.:** | M2 |
| **Location:** | Yukon | **Depth Interval (m):** | 3.00 to 3.00 |
| **Project No.:** | 10-1416-0029 **Phase:** 17000 | **Lab Schedule No.:** | 230 |

**Classification and Definition:** **MH** - Inorganic silts, micaeous or diatomaceous fine sandy or silty soils, elastic silts.

**Other Remarks:** **N/A**

**Test Method: A-Multi Point** | **Preparation Method: Air Dried**

| SUMMARY | |
|---|---|
| **Percent Passing #40 Sieve (%)** | **98** |
| **Liquid Limit** | **51** |
| **Plastic Limit** | **40** |
| **Plasticity Index** | **11** |
| **Natural Water Content (%)** | **45.3** |
| **Liquidity Index** | **0.5** |




***Note: The test data given herein pertain to the sample provided only. This report constitutes a testing service only.***

| TM | 12/1/2010 | | |
|---|---|---|---|
| Tech | Date | Checked | Date |





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# LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS

Reference(s)
**ASTM D 4318-05**

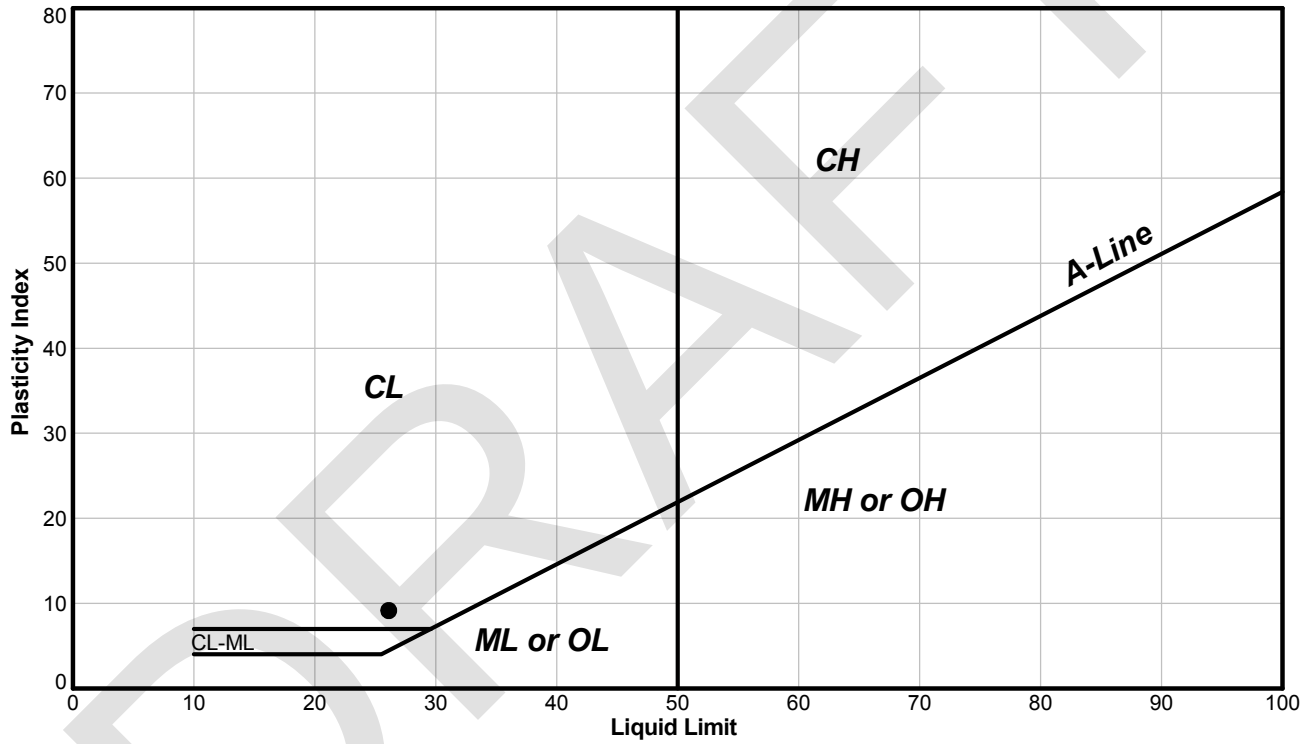
| | | | |
|---|---|---|---|
| **Client:** | BGC Engineering Inc | **Sample Location:** | TP-BGC10-12 |
| **Project:** | Eagle Gold Project | **Sample No.:** | M2 |
| **Location:** | Yukon | **Depth Interval (m):** | 3.00 to 3.00 |
| **Project No.:** | 10-1416-0029 **Phase:** 17000 | **Lab Schedule No.:** | 230 |

**Classification and Definition:** **CL** - Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays.

**Other Remarks:**

**Test Method: A-Multi Point** | **Preparation Method: Air Dried**

**PLASTICITY CHART**




| Sym. | Sample Location | Sample Number | Depth (m) | Bottom (m) | Percent Passing #40 Sieve (%) | Liquid Limit | Plastic Limit | Plasticity Index | Natural Water Content (%) | Liquidity Index |
|---|---|---|---|---|---|---|---|---|---|---|
| ● | TP-BGC10-12 | M2 | 3.00 | 3.00 | 44 | 26 | 17 | 9 | 13.6 | -0.4 |

***Note: The test data given herein pertain to the sample provided only. This report constitutes a testing service only.***

| TM | 11/30/2010 | | |
|---|---|---|---|
| Tech | Date | Checked | Date |





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# LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS

Reference(s)
**ASTM D 4318-05**

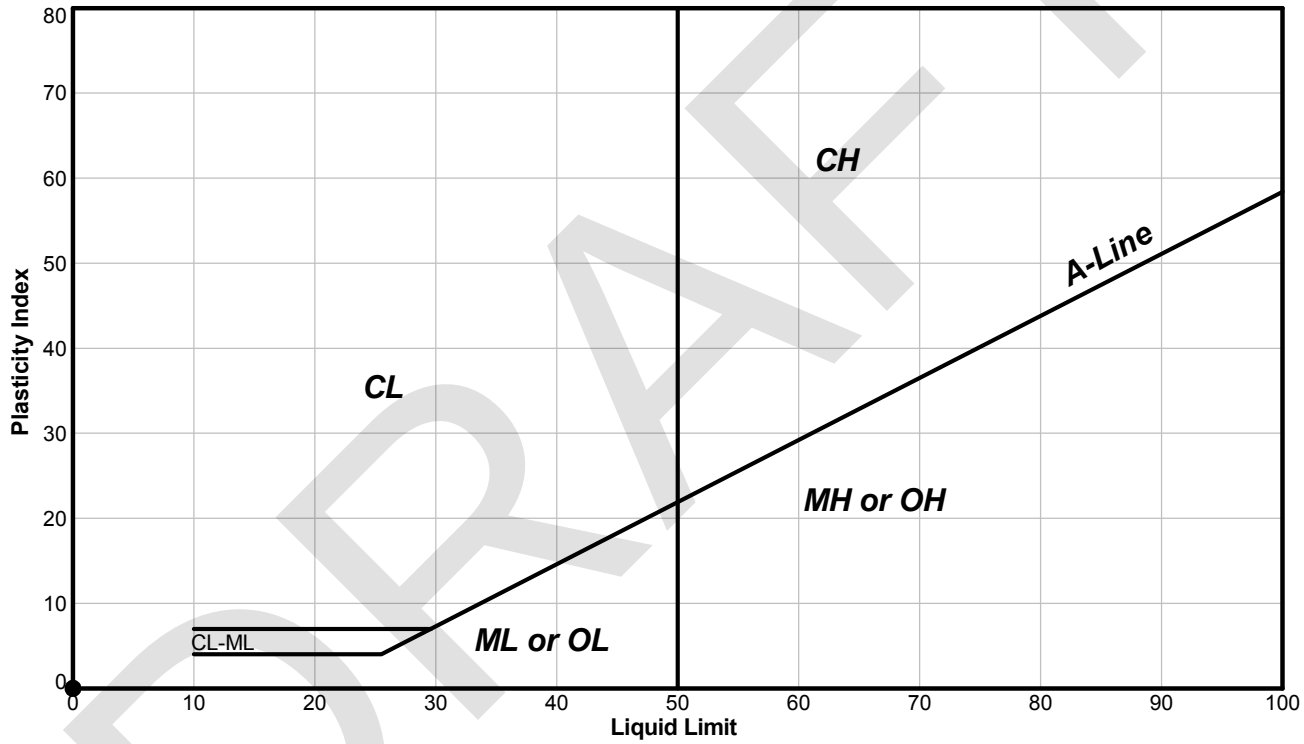
| | |
|---|---|
| **Client:** BGC Engineering Inc | **Sample Location:** TP-BGC10-13 |
| **Project:** Eagle Gold Project | **Sample No.:** M2 |
| **Location:** Yukon | **Depth Interval (m):** 3.80 to 3.80 |
| **Project No.:** 10-1416-0029 **Phase:** 17000 | **Lab Schedule No.:** 230 |

**Classification and Definition:** **Non-Plastic Soil (NP).**

**Other Remarks:**

| | |
|---|---|
| **Test Method: A-Multi Point** | **Preparation Method: Nonplastic Soil (NP)** |

**PLASTICITY CHART**




| Sym. | Sample Location | Sample Number | Depth (m) | Bottom (m) | Percent Passing #40 Sieve (%) | Liquid Limit | Plastic Limit | Plasticity Index | Natural Water Content (%) | Liquidity Index |
|---|---|---|---|---|---|---|---|---|---|---|
| ● | TP-BGC10-13 | M2 | 3.80 | 3.80 | 28 | NP | NP | NP | 10.8 | NP |

***Note: The test data given herein pertain to the sample provided only. This report constitutes a testing service only.***

| | | | |
|---|---|---|---|
| **EB** | **12/1/2010** | | |
| Tech | Date | Checked | Date |





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# LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS

Reference(s)
**ASTM D 4318-05**

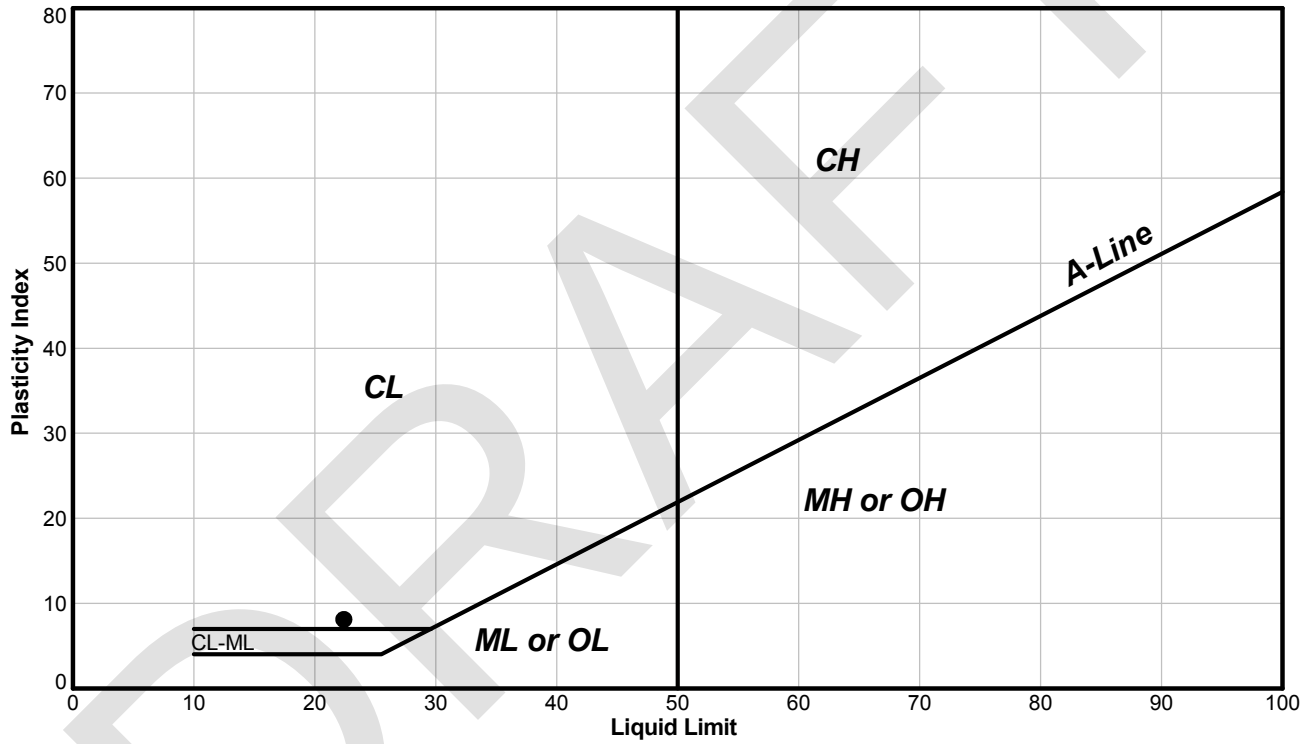
| | | | |
|---|---|---|---|
| **Client:** | BGC Engineering Inc | **Sample Location:** | TP-BGC10-18 |
| **Project:** | Eagle Gold Project | **Sample No.:** | M2 |
| **Location:** | Yukon | **Depth Interval (m):** | 5.00 to 5.00 |
| **Project No.:** | 10-1416-0029 **Phase:** 17000 | **Lab Schedule No.:** | 230 |

**Classification and Definition:** **CL** - Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays.

**Other Remarks:**

**Test Method: A-Multi Point** | **Preparation Method: Air Dried**

**PLASTICITY CHART**




| Sym. | Sample Location | Sample Number | Depth (m) | Bottom (m) | Percent Passing #40 Sieve (%) | Liquid Limit | Plastic Limit | Plasticity Index | Natural Water Content (%) | Liquidity Index |
|---|---|---|---|---|---|---|---|---|---|---|
| ● | TP-BGC10-18 | M2 | 5.00 | 5.00 | 42 | 22 | 14 | 8 | 11.0 | -0.4 |

***Note: The test data given herein pertain to the sample provided only. This report constitutes a testing service only.***

| TM | 11/30/2010 | | |
|---|---|---|---|
| Tech | Date | Checked | Date |





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# LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS

Reference(s)
**ASTM D 4318-05**

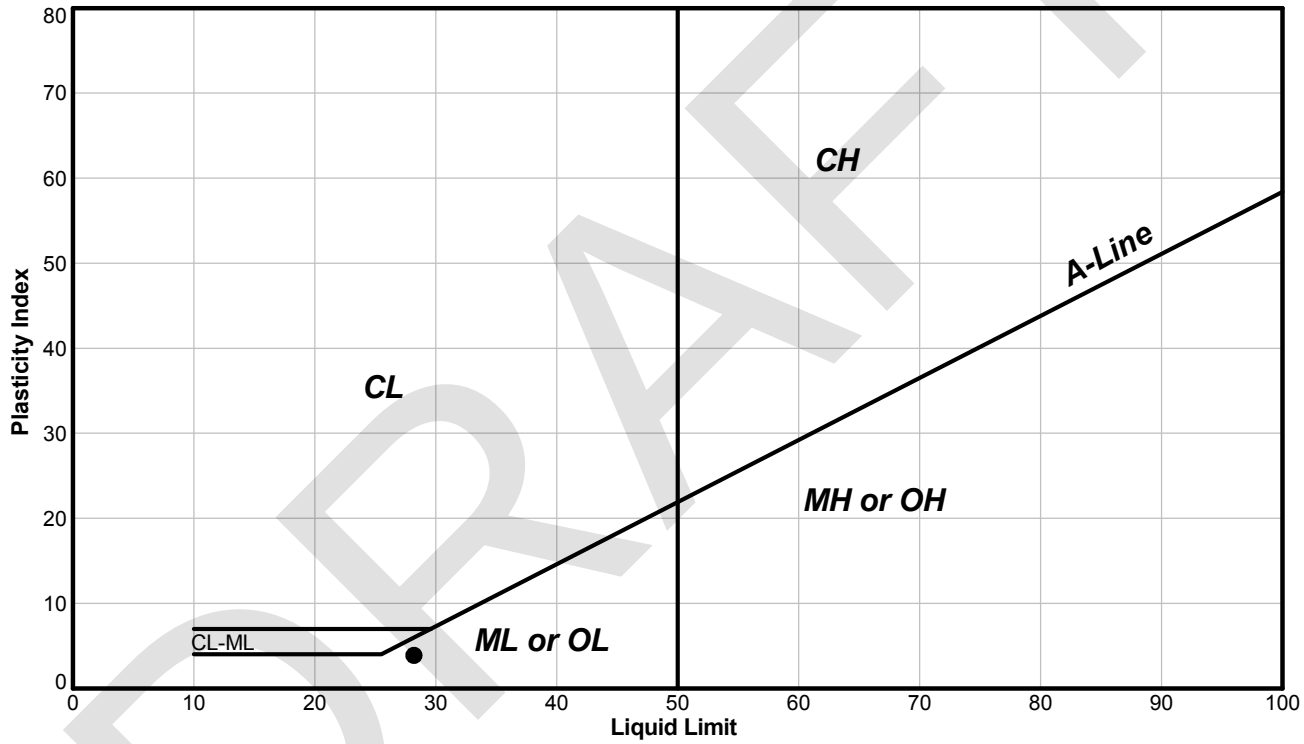
| | | | |
|---|---|---|---|
| **Client:** | BGC Engineering Inc | **Sample Location:** | TP-BGC10-21 |
| **Project:** | Eagle Gold Project | **Sample No.:** | M1 |
| **Location:** | Yukon | **Depth Interval (m):** | 5.00 to 5.00 |
| **Project No.:** | 10-1416-0029 **Phase:** 17000 | **Lab Schedule No.:** | 230 |

**Classification and Definition:** **ML** - Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity.

**Other Remarks:**

**Test Method: A-Multi Point** | **Preparation Method: Air Dried**

**PLASTICITY CHART**




| Sym. | Sample Location | Sample Number | Depth (m) | Bottom (m) | Percent Passing #40 Sieve (%) | Liquid Limit | Plastic Limit | Plasticity Index | Natural Water Content (%) | Liquidity Index |
|---|---|---|---|---|---|---|---|---|---|---|
| ● | TP-BGC10-21 | M1 | 5.00 | 5.00 | 57 | 28 | 24 | 4 | 20.0 | -1.0 |

***Note: The test data given herein pertain to the sample provided only. This report constitutes a testing service only.***

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# LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS

Reference(s)
**ASTM D 4318-05**

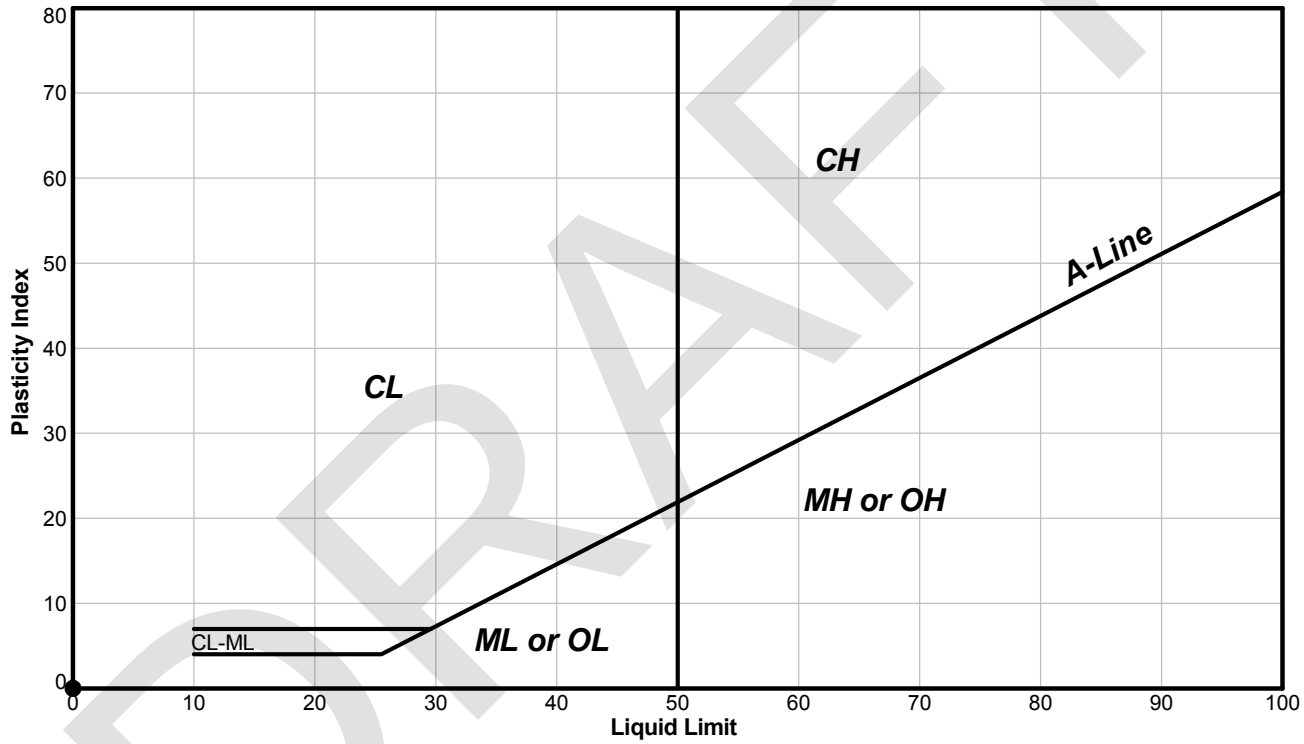
| | |
|---|---|
| **Client:** BGC Engineering Inc | **Sample Location:** TP-BGC10-26 |
| **Project:** Eagle Gold Project | **Sample No.:** M1 |
| **Location:** Yukon | **Depth Interval (m):** 2.50 to 2.50 |
| **Project No.:** 10-1416-0029 **Phase:** 17000 | **Lab Schedule No.:** 230 |

**Classification and Definition:** **Non-Plastic Soil (NP).**

**Other Remarks:** **Sample air-dried before preparation.**

**Test Method: A-Multi Point** | **Preparation Method: Nonplastic Soil (NP)**

**PLASTICITY CHART**




| Sym. | Sample Location | Sample Number | Depth (m) | Bottom (m) | Percent Passing #40 Sieve (%) | Liquid Limit | Plastic Limit | Plasticity Index | Natural Water Content (%) | Liquidity Index |
|---|---|---|---|---|---|---|---|---|---|---|
| ● | TP-BGC10-26 | M1 | 2.50 | 2.50 | 13 | NP | NP | NP | 5.7 | NP |

***Note: The test data given herein pertain to the sample provided only. This report constitutes a testing service only.***

| EB | 12/1/2010 | | |
|---|---|---|---|
| Tech | Date | Checked | Date |





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# LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS

Reference(s)
**ASTM D 4318-05**

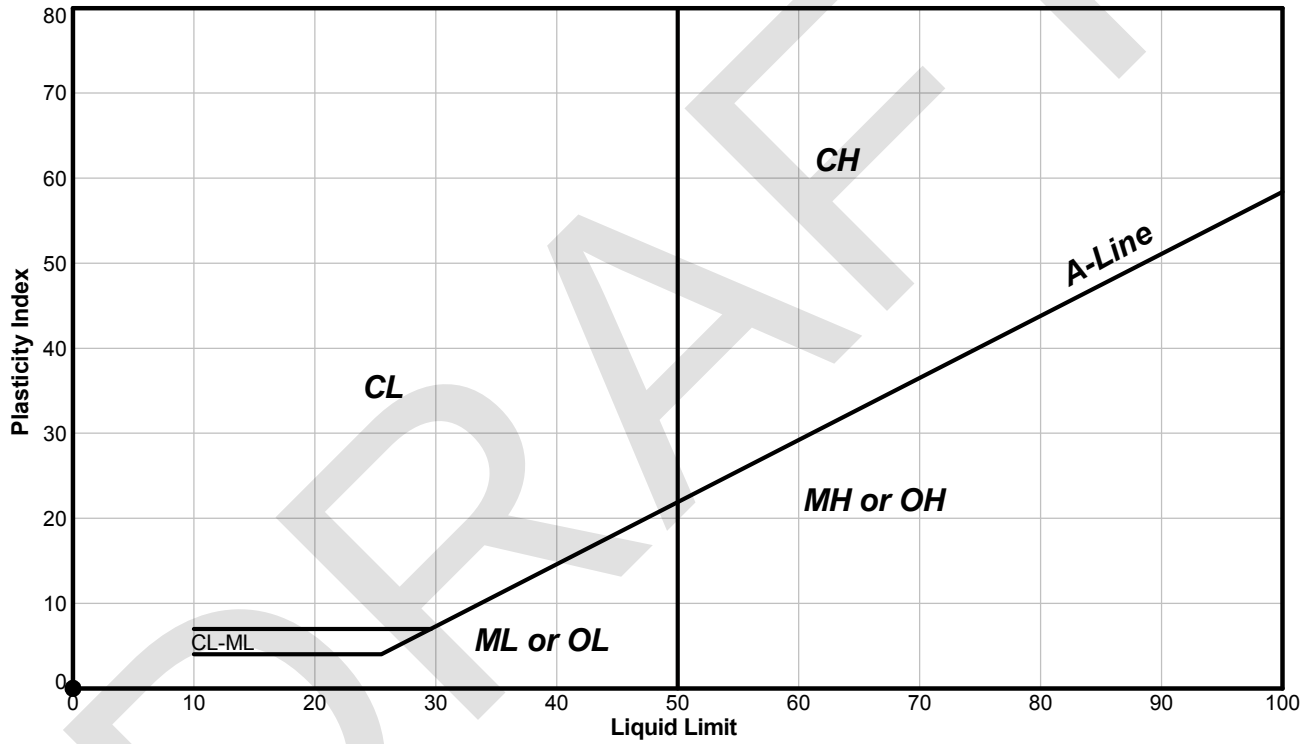
| | |
|---|---|
| **Client:** BGC Engineering Inc | **Sample Location:** TP-BGC10-43 |
| **Project:** Eagle Gold Project | **Sample No.:** M3 |
| **Location:** Yukon | **Depth Interval (m):** 5.20 to 5.20 |
| **Project No.:** 10-1416-0029 **Phase:** 17000 | **Lab Schedule No.:** 230 |

**Classification and Definition:** **Non-Plastic Soil (NP).**

**Other Remarks:** **Sample air-dried before preparation.**

**Test Method: A-Multi Point** | **Preparation Method: Nonplastic Soil (NP)**

**PLASTICITY CHART**




| Sym. | Sample Location | Sample Number | Depth (m) | Bottom (m) | Percent Passing #40 Sieve (%) | Liquid Limit | Plastic Limit | Plasticity Index | Natural Water Content (%) | Liquidity Index |
|---|---|---|---|---|---|---|---|---|---|---|
| ● | TP-BGC10-43 | M3 | 5.20 | 5.20 | 44 | NP | NP | NP | 9.4 | NP |

***Note: The test data given herein pertain to the sample provided only. This report constitutes a testing service only.***

| TM | 11/30/2010 | | |
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# LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS

Reference(s)
**ASTM D 4318-05**

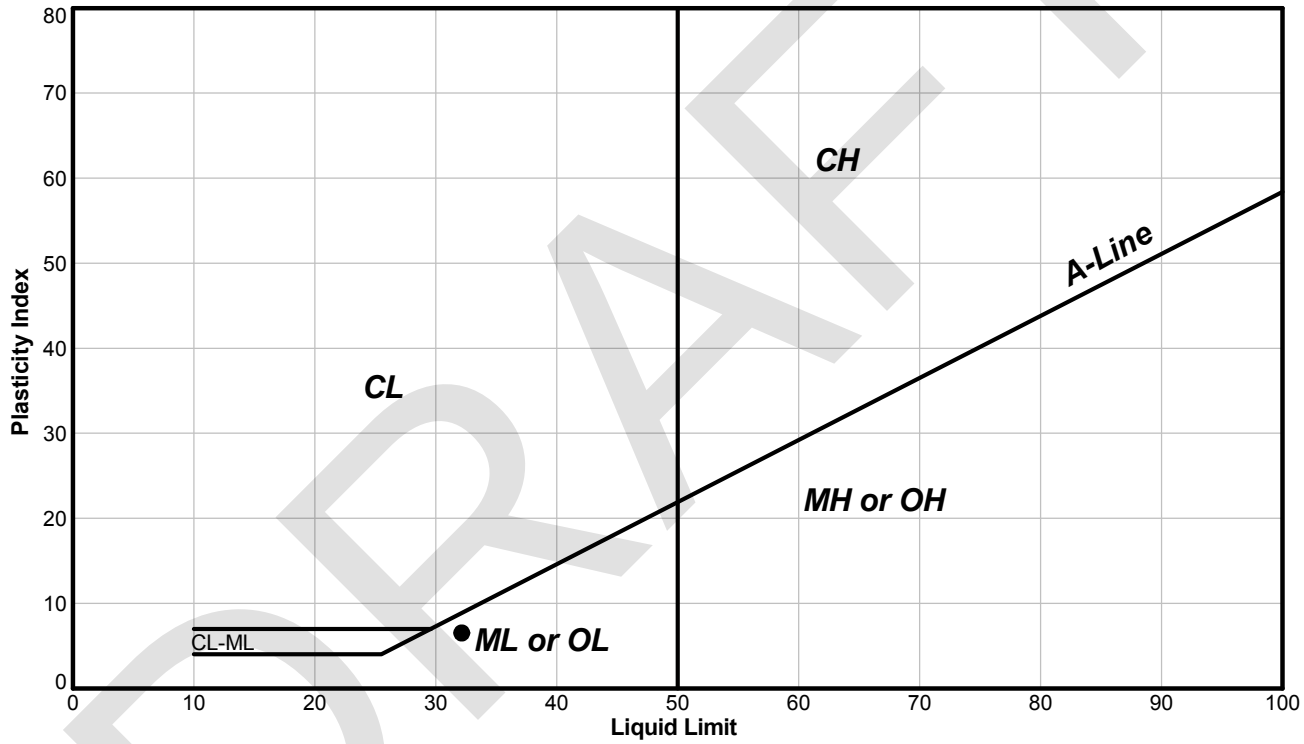
| | | | |
|---|---|---|---|
| **Client:** | BGC Engineering Inc | **Sample Location:** | TP-BGC10-45 |
| **Project:** | Eagle Gold Project | **Sample No.:** | M1 |
| **Location:** | Yukon | **Depth Interval (m):** | 5.50 to 5.50 |
| **Project No.:** | 10-1416-0029 **Phase:** 17000 | **Lab Schedule No.:** | 230 |

**Classification and Definition:** **ML** - Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity.

**Other Remarks:**

**Test Method: A-Multi Point** | **Preparation Method: Air Dried**

**PLASTICITY CHART**




| Sym. | Sample Location | Sample Number | Depth (m) | Bottom (m) | Percent Passing #40 Sieve (%) | Liquid Limit | Plastic Limit | Plasticity Index | Natural Water Content (%) | Liquidity Index |
|---|---|---|---|---|---|---|---|---|---|---|
| ● | TP-BGC10-45 | M1 | 5.50 | 5.50 | 89 | 32 | 26 | 6 | 21.5 | -0.7 |

***Note: The test data given herein pertain to the sample provided only. This report constitutes a testing service only.***

| | | | |
|---|---|---|---|
| **EB** | **12/3/2010** | | |
| Tech | Date | Checked | Date |



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# LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS

Reference(s)
**ASTM D 4318-05**

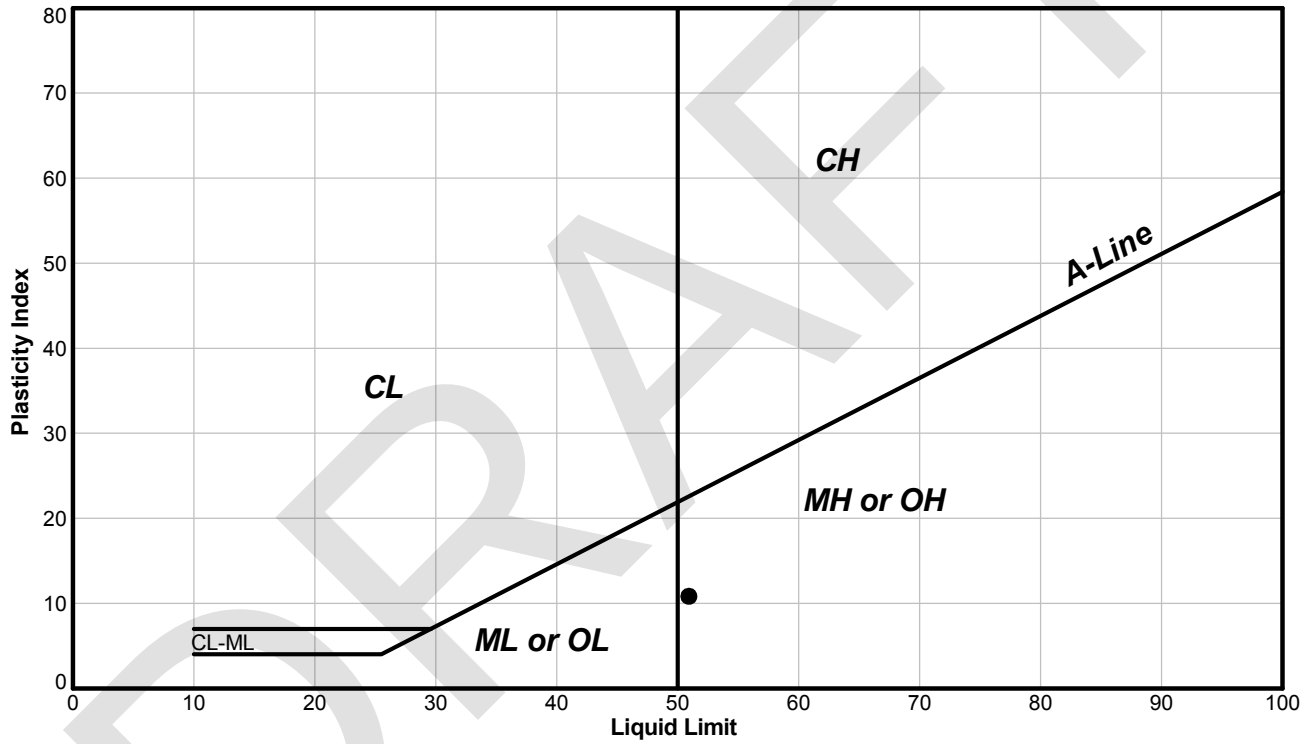
| | | | |
|---|---|---|---|
| **Client:** | BGC Engineering Inc | **Sample Location:** | TP-BGC10-48 |
| **Project:** | Eagle Gold Project | **Sample No.:** | M2 |
| **Location:** | Yukon | **Depth Interval (m):** | 3.00 to 3.00 |
| **Project No.:** | 10-1416-0029 **Phase:** 17000 | **Lab Schedule No.:** | 230 |

**Classification and Definition:** **MH** - Inorganic silts, micaeous or diatomaceous fine sandy or silty soils, elastic silts.

**Other Remarks:**

**Test Method: A-Multi Point** | **Preparation Method: Air Dried**

**PLASTICITY CHART**




| Sym. | Sample Location | Sample Number | Depth (m) | Bottom (m) | Percent Passing #40 Sieve (%) | Liquid Limit | Plastic Limit | Plasticity Index | Natural Water Content (%) | Liquidity Index |
|---|---|---|---|---|---|---|---|---|---|---|
| ● | TP-BGC10-48 | M2 | 3.00 | 3.00 | 98 | 51 | 40 | 11 | 45.3 | 0.5 |

***Note: The test data given herein pertain to the sample provided only. This report constitutes a testing service only.***

| TM | 12/1/2010 | | |
|---|---|---|---|
| Tech | Date | Checked | Date |





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# SPECIFIC GRAVITY OF SOIL SOLIDS

**Reference**
ASTM C 127-07
ASTM D 854-06 Method B

| | | | |
|---|---|---|---|
| **Project No.:** | 10-1416-0029/17000 | **Borehole** | **TPBGC10-12** |
| **Client:** | BGC Engineering Inc. | **Sample No.:** | M2 |
| **Project:** | Eagle Gold Project | **Depth (m):** | 3.0 |
| **Location:** | Yukon | **Lab Sch No:** | 230 |

## Specific Gravity of Fine Fraction (ASTM D 854-06)

| Percentage Passing #4 sieve | | 75.99 | | |
|---|---|---|---|---|
| Test Number | | 1 | | 2 |
| Flask Number | | 2 | | 2 |
| Air Removal Method | | Vacuum | | Vacuum |
| Mass of Flask (g) | | 172.85 | | 172.85 |
| Mass of Flask + Dry Soil (g) | $M_P$ | 344.09 | | 344.09 |
| Mass of Dry Soil (g) | | 171.24 | | 171.24 |
| Mass of Flask + Soil + Water (g) | $M_{\rho ws,t}$ | 777.15 | | 777.15 |
| Test Temperature (g) | $T_t$ | 31.00 | | 31.00 |
| Mass of Flask + Water (g) | $M_{\rho w,t}$ | 669.32 | | 669.32 |
| Mass of Dish + Dry Soil (g) | | 393.03 | | 393.03 |
| Mass of Dish (g) | | 221.79 | | 221.79 |
| Mass of Oven Dry Soil (g) | $M_S$ | 171.24 | | 171.24 |
| Temperature Coefficient | $K$ | 1.00 | | 1.00 |
| Density of Solids (g/cm3) | $\rho_s$ | 2.70 | | 2.70 |
| Specific Gravity at Test Temperature | $G_t$ | 2.71 | | 2.71 |
| Specific Gravity at 20ºC | $G_{20ºC}$ | 2.71 | | 2.71 |
| **AVERAGE SPECIFIC GRAVITY** | | **2.71** | | |



## Specific Gravity of Coarse Fraction (ASTM C 127-07)

| Percentage Retained on #4 sieve | | 24.01 |
|---|---|---|
| Mass of Sample in Water (g) | A | |
| Mass of Sample @ SSD (g) | B | |
| Mass of Oven Dryed Sample (g) | C | |
| Bulk G (Oven Dry) | C/(B-A) | |
| Bulk G (SSD) | B/(B-A) | |
| Apparent | C/(C-A) | |
| Absorbtion (%) | (B-C)/C | |

## Combined Specific Gravity

| COMBINED SPECIFIC GRAVITY | Gavg @20°C | |
|---|---|---|

** The test data given herein pertain to the sample provided only. This report constitutes a testing service only. Interpretation of the data can be provided upon request.*

| | | | |
|---|---|---|---|
| EB | December 3, 2010 | | |
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# SPECIFIC GRAVITY OF SOIL SOLIDS

**Reference**
ASTM C 127-07
ASTM D 854-06 Method B

| | | | |
|---|---|---|---|
| **Project No.:** | 10-1416-0029/17000 | **Borehole** | **TPBGC10-13** |
| **Client:** | BGC Engineering Inc. | **Sample No.:** | M2 |
| **Project:** | Eagle Gold Project | **Depth (m):** | 3.80 |
| **Location:** | Yukon | **Lab Sch No:** | 230 |

## Specific Gravity of Fine Fraction (ASTM D 854-06)

| Percentage Passing #4 sieve | | 74.68 | | |
|---|---|---|---|---|
| Test Number | | 1 | | 2 |
| Flask Number | | 2 | | 2 |
| Air Removal Method | | Vacuum | | Vacuum |
| Mass of Flask (g) | | 172.86 | | 172.86 |
| Mass of Flask + Dry Soil (g) | $M_P$ | 339.40 | | 339.40 |
| Mass of Dry Soil (g) | | 166.57 | | 166.57 |
| Mass of Flask + Soil + Water (g) | $M_{\rho ws,t}$ | 774.34 | | 774.34 |
| Test Temperature (g) | $T_t$ | 31.00 | | 31.00 |
| Mass of Flask + Water (g) | $M_{\rho w,t}$ | 669.32 | | 669.32 |
| Mass of Dish + Dry Soil (g) | | 334.93 | | 334.93 |
| Mass of Dish (g) | | 168.36 | | 168.36 |
| Mass of Oven Dry Soil (g) | $M_S$ | 166.57 | | 166.57 |
| Temperature Coefficient | $K$ | 1.00 | | 1.00 |
| Density of Solids (g/cm3) | $\rho_s$ | 2.71 | | 2.71 |
| Specific Gravity at Test Temperature | $G_t$ | 2.72 | | 2.72 |
| Specific Gravity at 20ºC | $G_{20ºC}$ | 2.71 | | 2.71 |
| **AVERAGE SPECIFIC GRAVITY** | | **2.71** | | |



## Specific Gravity of Coarse Fraction (ASTM C 127-07)

| Percentage Retained on #4 sieve | | 25.32 |
|---|---|---|
| Mass of Sample in Water (g) | A | |
| Mass of Sample @ SSD (g) | B | |
| Mass of Oven Dryed Sample (g) | C | |
| Bulk G (Oven Dry) | C/(B-A) | |
| Bulk G (SSD) | B/(B-A) | |
| Apparent | C/(C-A) | |
| Absorbtion (%) | (B-C)/C | |

## Combined Specific Gravity

| COMBINED SPECIFIC GRAVITY | Gavg @20ºC | |
|---|---|---|

** The test data given herein pertain to the sample provided only. This report constitutes a testing service only. Interpretation of the data can be provided upon request.*

| | | | |
|---|---|---|---|
| EB | December 2, 2010 | | |
| TESTED BY | DATE | CHECKED BY | DATE |

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# SPECIFIC GRAVITY OF SOIL SOLIDS

**Reference**
ASTM C 127-07
ASTM D 854-06 Method B

| | | | |
|---|---|---|---|
| **Project No.:** | 10-1416-0029/17000 | **Borehole** | **TPBGC10-18** |
| **Client:** | BGC Engineering Inc. | **Sample No.:** | M2 |
| **Project:** | Eagle Gold Project | **Depth (m):** | 5.0 |
| **Location:** | Yukon | **Lab Sch No:** | 230 |

## Specific Gravity of Fine Fraction (ASTM D 854-06)

| Percentage Passing #4 sieve | | 50.43 | | |
|---|---|---|---|---|
| Test Number | | 1 | | 2 |
| Flask Number | | 3 | | 3 |
| Air Removal Method | | Vacuum | | Vacuum |
| Mass of Flask (g) | | 174.16 | | 174.16 |
| Mass of Flask + Dry Soil (g) | $M_P$ | 337.32 | | 337.32 |
| Mass of Dry Soil (g) | | 163.17 | | 163.17 |
| Mass of Flask + Soil + Water (g) | $M_{\rho ws,t}$ | 775.56 | | 775.56 |
| Test Temperature (g) | $T_t$ | 31.40 | | 31.40 |
| Mass of Flask + Water (g) | $M_{\rho w,t}$ | 670.88 | | 670.88 |
| Mass of Dish + Dry Soil (g) | | 287.53 | | 287.53 |
| Mass of Dish (g) | | 124.36 | | 124.36 |
| Mass of Oven Dry Soil (g) | $M_S$ | 163.17 | | 163.17 |
| Temperature Coefficient | $K$ | 1.00 | | 1.00 |
| Density of Solids (g/cm3) | $\rho_s$ | 2.79 | | 2.79 |
| Specific Gravity at Test Temperature | $G_t$ | 2.80 | | 2.80 |
| Specific Gravity at 20ºC | $G_{20ºC}$ | 2.79 | | 2.79 |
| **AVERAGE SPECIFIC GRAVITY** | | **2.79** | | |



## Specific Gravity of Coarse Fraction (ASTM C 127-07)

| Percentage Retained on #4 sieve | | 49.57 |
|---|---|---|
| Mass of Sample in Water (g) | A | |
| Mass of Sample @ SSD (g) | B | |
| Mass of Oven Dryed Sample (g) | C | |
| Bulk G (Oven Dry) | C/(B-A) | |
| Bulk G (SSD) | B/(B-A) | |
| Apparent | C/(C-A) | |
| Absorbtion (%) | (B-C)/C | |

## Combined Specific Gravity

| COMBINED SPECIFIC GRAVITY | $G_{avg\ @20ºC}$ | |
|---|---|---|

** The test data given herein pertain to the sample provided only. This report constitutes a testing service only. Interpretation of the data can be provided upon request.*

| EB | December 2, 2010 | | |
|---|---|---|---|
| TESTED BY | DATE | CHECKED BY | DATE |

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# SPECIFIC GRAVITY OF SOIL SOLIDS

**Reference**
ASTM C 127-07
ASTM D 854-06 Method B

| | | | |
|---|---|---|---|
| **Project No.:** | 10-1416-0029/17000 | **Borehole** | **TPBGC10-21** |
| **Client:** | BGC Engineering Inc. | **Sample No.:** | M1 |
| **Project:** | Eagle Gold Project | **Depth (m):** | 5.0 |
| **Location:** | Yukon | **Lab Sch No:** | 230 |

## Specific Gravity of Fine Fraction (ASTM D 854-06)

| Percentage Passing #4 sieve | | 78.78 | | |
|---|---|---|---|---|
| Test Number | | 1 | | 2 |
| Flask Number | | 4 | | 4 |
| Air Removal Method | | Vacuum | | Vacuum |
| Mass of Flask (g) | | 172.89 | | 172.89 |
| Mass of Flask + Dry Soil (g) | $M_P$ | 285.75 | | 285.75 |
| Mass of Dry Soil (g) | | 112.87 | | 112.87 |
| Mass of Flask + Soil + Water (g) | $M_{\rho ws,t}$ | 741.07 | | 741.07 |
| Test Temperature (g) | $T_t$ | 31.50 | | 31.50 |
| Mass of Flask + Water (g) | $M_{\rho w,t}$ | 669.60 | | 669.60 |
| Mass of Dish + Dry Soil (g) | | 369.01 | | 369.01 |
| Mass of Dish (g) | | 256.14 | | 256.14 |
| Mass of Oven Dry Soil (g) | $M_S$ | 112.87 | | 112.87 |
| Temperature Coefficient | $K$ | 1.00 | | 1.00 |
| Density of Solids (g/cm3) | $\rho_s$ | 2.73 | | 2.73 |
| Specific Gravity at Test Temperature | $G_t$ | 2.74 | | 2.74 |
| Specific Gravity at 20ºC | $G_{20ºC}$ | 2.73 | | 2.73 |
| **AVERAGE SPECIFIC GRAVITY** | | **2.73** | | |



## Specific Gravity of Coarse Fraction (ASTM C 127-07)

| Percentage Retained on #4 sieve | | 21.22 |
|---|---|---|
| Mass of Sample in Water (g) | A | |
| Mass of Sample @ SSD (g) | B | |
| Mass of Oven Dryed Sample (g) | C | |
| Bulk G (Oven Dry) | C/(B-A) | |
| Bulk G (SSD) | B/(B-A) | |
| Apparent | C/(C-A) | |
| Absorbtion (%) | (B-C)/C | |

## Combined Specific Gravity

| COMBINED SPECIFIC GRAVITY | $G_{avg\ @20ºC}$ | |
|---|---|---|

** The test data given herein pertain to the sample provided only. This report constitutes a testing service only. Interpretation of the data can be provided upon request.*

| EB | December 2, 2010 | | |
|---|---|---|---|
| TESTED BY | DATE | CHECKED BY | DATE |

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# SPECIFIC GRAVITY OF SOIL SOLIDS

**Reference**
ASTM C 127-07
ASTM D 854-06 Method B

| | | | |
|---|---|---|---|
| **Project No.:** | 10-1416-0029/17000 | **Borehole** | **TPBGC10-26** |
| **Client:** | BGC Engineering Inc. | **Sample No.:** | M1 |
| **Project:** | Eagle Gold Project | **Depth (m):** | 2.5 |
| **Location:** | Yukon | **Lab Sch No:** | 230 |

## Specific Gravity of Fine Fraction (ASTM D 854-06)

| Percentage Passing #4 sieve | | 49.58 | | |
|---|---|---|---|---|
| Test Number | | 1 | | 2 |
| Flask Number | | 5 | | 5 |
| Air Removal Method | | Vacuum | | Vacuum |
| Mass of Flask (g) | | 174.96 | | 174.96 |
| Mass of Flask + Dry Soil (g) | $M_P$ | 343.62 | | 343.62 |
| Mass of Dry Soil (g) | | 168.67 | | 168.67 |
| Mass of Flask + Soil + Water (g) | $M_{\rho ws,t}$ | 780.72 | | 780.72 |
| Test Temperature (g) | $T_t$ | 31.50 | | 31.50 |
| Mass of Flask + Water (g) | $M_{\rho w,t}$ | 671.76 | | 671.76 |
| Mass of Dish + Dry Soil (g) | | 313.65 | | 313.65 |
| Mass of Dish (g) | | 144.98 | | 144.98 |
| Mass of Oven Dry Soil (g) | $M_S$ | 168.67 | | 168.67 |
| Temperature Coefficient | $K$ | 1.00 | | 1.00 |
| Density of Solids (g/cm3) | $\rho_s$ | 2.82 | | 2.82 |
| Specific Gravity at Test Temperature | $G_t$ | 2.84 | | 2.84 |
| Specific Gravity at 20ºC | $G_{20ºC}$ | 2.83 | | 2.83 |
| **AVERAGE SPECIFIC GRAVITY** | | **2.83** | | |



## Specific Gravity of Coarse Fraction (ASTM C 127-07)

| Percentage Retained on #4 sieve | | 50.42 |
|---|---|---|
| Mass of Sample in Water (g) | A | |
| Mass of Sample @ SSD (g) | B | |
| Mass of Oven Dryed Sample (g) | C | |
| Bulk G (Oven Dry) | C/(B-A) | |
| Bulk G (SSD) | B/(B-A) | |
| Apparent | C/(C-A) | |
| Absorbtion (%) | (B-C)/C | |

## Combined Specific Gravity

| COMBINED SPECIFIC GRAVITY | Gavg @20ºC | |
|---|---|---|

** The test data given herein pertain to the sample provided only. This report constitutes a testing service only. Interpretation of the data can be provided upon request.*

| | | | |
|---|---|---|---|
| EB | December 2, 2010 | | |
| TESTED BY | DATE | CHECKED BY | DATE |

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# SPECIFIC GRAVITY OF SOIL SOLIDS

**Reference**
ASTM C 127-07
ASTM D 854-06 Method B

| | | | |
|---|---|---|---|
| **Project No.:** | 10-1416-0029/17000 | **Borehole** | **TPBGC10-43** |
| **Client:** | BGC Engineering Inc. | **Sample No.:** | M3 |
| **Project:** | Eagle Gold Project | **Depth (m):** | 5.2 |
| **Location:** | Yukon | **Lab Sch No:** | 230 |

## Specific Gravity of Fine Fraction (ASTM D 854-06)

| Percentage Passing #4 sieve | | 44.1 | | |
|---|---|---|---|---|
| Test Number | | 1 | | 2 |
| Flask Number | | 6 | | 6 |
| Air Removal Method | | Vacuum | | Vacuum |
| Mass of Flask (g) | | 173.52 | | 173.52 |
| Mass of Flask + Dry Soil (g) | $M_P$ | 329.12 | | 329.12 |
| Mass of Dry Soil (g) | | 155.58 | | 155.58 |
| Mass of Flask + Soil + Water (g) | $M_{\rho ws,t}$ | 769.18 | | 769.18 |
| Test Temperature (g) | $T_t$ | 31.50 | | 31.50 |
| Mass of Flask + Water (g) | $M_{\rho w,t}$ | 670.08 | | 670.08 |
| Mass of Dish + Dry Soil (g) | | 361.45 | | 361.45 |
| Mass of Dish (g) | | 205.87 | | 205.87 |
| Mass of Oven Dry Soil (g) | $M_S$ | 155.58 | | 155.58 |
| Temperature Coefficient | $K$ | 1.00 | | 1.00 |
| Density of Solids (g/cm3) | $\rho_s$ | 2.75 | | 2.75 |
| Specific Gravity at Test Temperature | $G_t$ | 2.77 | | 2.77 |
| Specific Gravity at 20ºC | $G_{20ºC}$ | 2.76 | | 2.76 |
| **AVERAGE SPECIFIC GRAVITY** | | **2.76** | | |



## Specific Gravity of Coarse Fraction (ASTM C 127-07)

| Percentage Retained on #4 sieve | | 55.9 |
|---|---|---|
| Mass of Sample in Water (g) | A | |
| Mass of Sample @ SSD (g) | B | |
| Mass of Oven Dryed Sample (g) | C | |
| Bulk G (Oven Dry) | C/(B-A) | |
| Bulk G (SSD) | B/(B-A) | |
| Apparent | C/(C-A) | |
| Absorbtion (%) | (B-C)/C | |

## Combined Specific Gravity

| COMBINED SPECIFIC GRAVITY | Gavg @20ºC | |
|---|---|---|

** The test data given herein pertain to the sample provided only. This report constitutes a testing service only. Interpretation of the data can be provided upon request.*

| EB | December 2, 2010 | | |
|---|---|---|---|
| TESTED BY | DATE | CHECKED BY | DATE |

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# SPECIFIC GRAVITY OF SOIL SOLIDS

**Reference**
ASTM C 127-07
ASTM D 854-06 Method B

| | | | |
|---|---|---|---|
| **Project No.:** | 10-1416-0029/17000 | **Borehole** | **TPBGC10-45** |
| **Client:** | BGC Engineering Inc. | **Sample No.:** | M1 |
| **Project:** | Eagle Gold Project | **Depth (m):** | 5.5 |
| **Location:** | Yukon | **Lab Sch No:** | 230 |

## Specific Gravity of Fine Fraction (ASTM D 854-06)

| Percentage Passing #4 sieve | | 95.41 | | |
|---|---|---|---|---|
| Test Number | | 1 | | 2 |
| Flask Number | | 7 | | 7 |
| Air Removal Method | | Vacuum | | Vacuum |
| Mass of Flask (g) | | 171.38 | | 171.38 |
| Mass of Flask + Dry Soil (g) | $M_P$ | 302.31 | | 302.31 |
| Mass of Dry Soil (g) | | 130.92 | | 130.92 |
| Mass of Flask + Soil + Water (g) | $M_{\rho ws,t}$ | 749.12 | | 749.12 |
| Test Temperature (g) | $T_t$ | 31.70 | | 31.70 |
| Mass of Flask + Water (g) | $M_{\rho w,t}$ | 667.72 | | 667.72 |
| Mass of Dish + Dry Soil (g) | | 343.37 | | 343.37 |
| Mass of Dish (g) | | 212.45 | | 212.45 |
| Mass of Oven Dry Soil (g) | $M_S$ | 130.92 | | 130.92 |
| Temperature Coefficient | $K$ | 1.00 | | 1.00 |
| Density of Solids (g/cm3) | $\rho_s$ | 2.64 | | 2.64 |
| Specific Gravity at Test Temperature | $G_t$ | 2.66 | | 2.66 |
| Specific Gravity at 20ºC | $G_{20ºC}$ | 2.65 | | 2.65 |
| **AVERAGE SPECIFIC GRAVITY** | | **2.65** | | |



## Specific Gravity of Coarse Fraction (ASTM C 127-07)

| Percentage Retained on #4 sieve | | 4.59 |
|---|---|---|
| Mass of Sample in Water (g) | A | |
| Mass of Sample @ SSD (g) | B | |
| Mass of Oven Dryed Sample (g) | C | |
| Bulk G (Oven Dry) | C/(B-A) | |
| Bulk G (SSD) | B/(B-A) | |
| Apparent | C/(C-A) | |
| Absorbtion (%) | (B-C)/C | |

## Combined Specific Gravity

| COMBINED SPECIFIC GRAVITY | $G_{avg\ @20ºC}$ | |
|---|---|---|

** The test data given herein pertain to the sample provided only. This report constitutes a testing service only. Interpretation of the data can be provided upon request.*

| EB | December 2, 2010 | | |
|---|---|---|---|
| TESTED BY | DATE | CHECKED BY | DATE |

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# SPECIFIC GRAVITY OF SOIL SOLIDS

**Reference**
ASTM C 127-07
ASTM D 854-06 Method B

| | | | |
|---|---|---|---|
| **Project No.:** | 10-1416-0029/17000 | **Borehole** | **TPBGC10-48** |
| **Client:** | BGC Engineering Inc. | **Sample No.:** | M2 |
| **Project:** | Eagle Gold Project | **Depth (m):** | 3.0 |
| **Location:** | Yukon | **Lab Sch No:** | 230 |

## Specific Gravity of Fine Fraction (ASTM D 854-06)

| Percentage Passing #4 sieve | | 99.47 | | |
|---|---|---|---|---|
| Test Number | | 1 | | 2 |
| Flask Number | | 8 | | 8 |
| Air Removal Method | | Vacuum | | Vacuum |
| Mass of Flask (g) | | 174.70 | | 174.70 |
| Mass of Flask + Dry Soil (g) | $M_P$ | 289.42 | | 289.42 |
| Mass of Dry Soil (g) | | 114.73 | | 114.73 |
| Mass of Flask + Soil + Water (g) | $M_{\rho ws,t}$ | 743.42 | | 743.42 |
| Test Temperature (g) | $T_t$ | 31.70 | | 31.70 |
| Mass of Flask + Water (g) | $M_{\rho w,t}$ | 671.32 | | 671.32 |
| Mass of Dish + Dry Soil (g) | | 302.27 | | 302.27 |
| Mass of Dish (g) | | 187.54 | | 187.54 |
| Mass of Oven Dry Soil (g) | $M_S$ | 114.73 | | 114.73 |
| Temperature Coefficient | $K$ | 1.00 | | 1.00 |
| Density of Solids (g/cm3) | $\rho_s$ | 2.69 | | 2.69 |
| Specific Gravity at Test Temperature | $G_t$ | 2.70 | | 2.70 |
| Specific Gravity at 20ºC | $G_{20ºC}$ | 2.70 | | 2.70 |
| **AVERAGE SPECIFIC GRAVITY** | | **2.70** | | |



## Specific Gravity of Coarse Fraction (ASTM C 127-07)

| Percentage Retained on #4 sieve | | 0.53 |
|---|---|---|
| Mass of Sample in Water (g) | A | |
| Mass of Sample @ SSD (g) | B | |
| Mass of Oven Dryed Sample (g) | C | |
| Bulk G (Oven Dry) | C/(B-A) | |
| Bulk G (SSD) | B/(B-A) | |
| Apparent | C/(C-A) | |
| Absorbtion (%) | (B-C)/C | |

## Combined Specific Gravity

| COMBINED SPECIFIC GRAVITY | $G_{avg\ @20ºC}$ | |
|---|---|---|

** The test data given herein pertain to the sample provided only. This report constitutes a testing service only. Interpretation of the data can be provided upon request.*

| EB | December 2, 2010 | | |
|---|---|---|---|
| TESTED BY | DATE | CHECKED BY | DATE |

# WATER CONTENT DETERMINATION

Reference(s)
**ASTM D 4959**

| | | | |
|---|---|---|---|
| **Client:** | BGC Engineering Inc. | **Project No.:** 10-1416-0029 **Phase:** 7000 | |
| **Project:** | Eagle Gold - 0792004 | **Lab Schedule No.:** 127 | |
| **Location:** | Yukon, Canada | | |

| Sample Location | Sample No. | Sample Interval | | Water Content (%) |
|---|---|---|---|---|
| | | Depth (m) | Bottom (m) | |
| **BH-BGC10-13** | **SPT#1** | 0.75 | 1.20 | **5.2** |
| **BH-BGC10-13** | **SPT#2** | 1.50 | 1.95 | **4.5** |
| **BH-BGC10-13** | **SPT#3** | 2.25 | 2.70 | **2.5** |
| **BH-BGC10-13** | **SPT#4** | 3.00 | 3.45 | **4.4** |
| **BH-BGC10-13** | **SPT#5** | 3.75 | 4.20 | **2.3** |
| **BH-BGC10-13** | **SPT#6** | 4.50 | 4.95 | **5.0** |
| **BH-BGC10-14** | **G2** | 0.00 | 0.00 | **24.8** |
| **BH-BGC10-14** | **G6** | 4.50 | 6.00 | **31.2** |
| **BH-BGC10-14** | **G7** | 6.00 | 7.50 | **34.8** |
| **BH-BGC10-14** | **SPT#6** | 9.50 | 9.95 | **7.4** |
| **BH-BGC10-14B** | **SPT#3** | 4.50 | 4.95 | **25.4** |
| **BH-BGC10-14B** | **G2** | 6.45 | 7.50 | **26.0** |
| **BH-BGC10-14B** | **G6** | 12.00 | 13.50 | **15.4** |
| **BH-BGC10-14B** | **G9** | 15.70 | 16.20 | **13.4** |
| **BH-BGC10-15** | **GS2** | 13.20 | 13.36 | **26.0** |
| **BH-BGC10-22** | **G2** | 0.50 | 1.50 | **26.6** |
| **BH-BGC10-22** | **G11** | 9.00 | 9.30 | **20.1** |
| **BH-BGC10-22** | **SPT#8** | 9.00 | 9.45 | **21.6** |
| **BH-BGC10-22** | **G13** | 10.50 | 12.00 | **10.8** |
| **BH-BGC10-22** | **G16** | 15.00 | 16.00 | **19.3** |
| **Borrow Material Assessment** | **S1** | 0.00 | 0.00 | **23.1** |
| **Borrow Material Assessment** | **S2** | 0.00 | 0.00 | **3.1** |
| **Borrow Material Assessment** | **S5** | 0.00 | 0.00 | **0.4** |
| **Borrow Material Assessment** | **S6** | 0.00 | 0.00 | **4.0** |
| **Borrow Material Assessment** | **S7** | 0.00 | 0.00 | **1.2** |
| **Borrow Material Assessment** | **S9** | 0.00 | 0.00 | **6.7** |

| | | |
|---|---|---|
| | LP | 20/07/2010 |
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# LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS

Reference(s)
**ASTM D 4318-05**

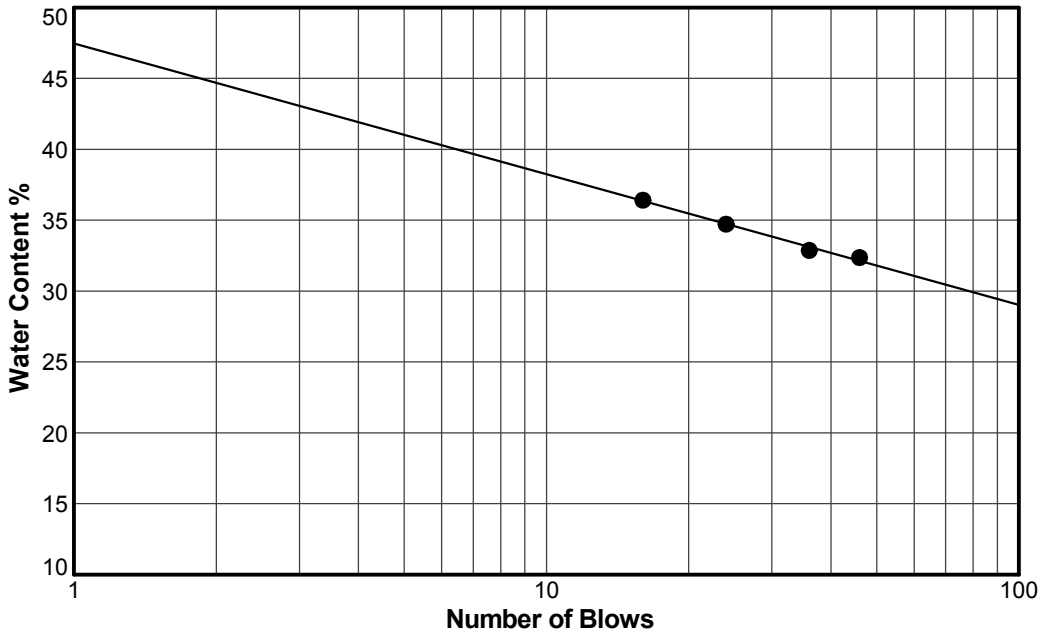
| | | | |
|---|---|---|---|
| **Client:** | BGC Engineering Inc. | **Sample Location:** | BH-BGC10-14 |
| **Project:** | Eagle Gold - 0792004 | **Sample No.:** | G2 |
| **Location:** | Yukon, Canada | **Depth Interval (m):** | 0.00 to 0.00 |
| **Project No.:** | 10-1416-0029 **Phase:** 7000 | **Lab Schedule No.:** | 127 |

**Classification and Definition:** **ML** - Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity.

**Other Remarks:** **N/A**

**Test Method: A-Multi Point** | **Preparation Method: Air Dried**

| SUMMARY | |
|---|---|
| **Percent Passing #40 Sieve (%)** | **100** |
| **Liquid Limit** | **35** |
| **Plastic Limit** | **28** |
| **Plasticity Index** | **7** |
| **Natural Water Content (%)** | **24.8** |
| **Liquidity Index** | **-0.5** |




| EB | 20/07/2010 | LP | 20/07/2010 |
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# LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS

Reference(s)
**ASTM D 4318-05**

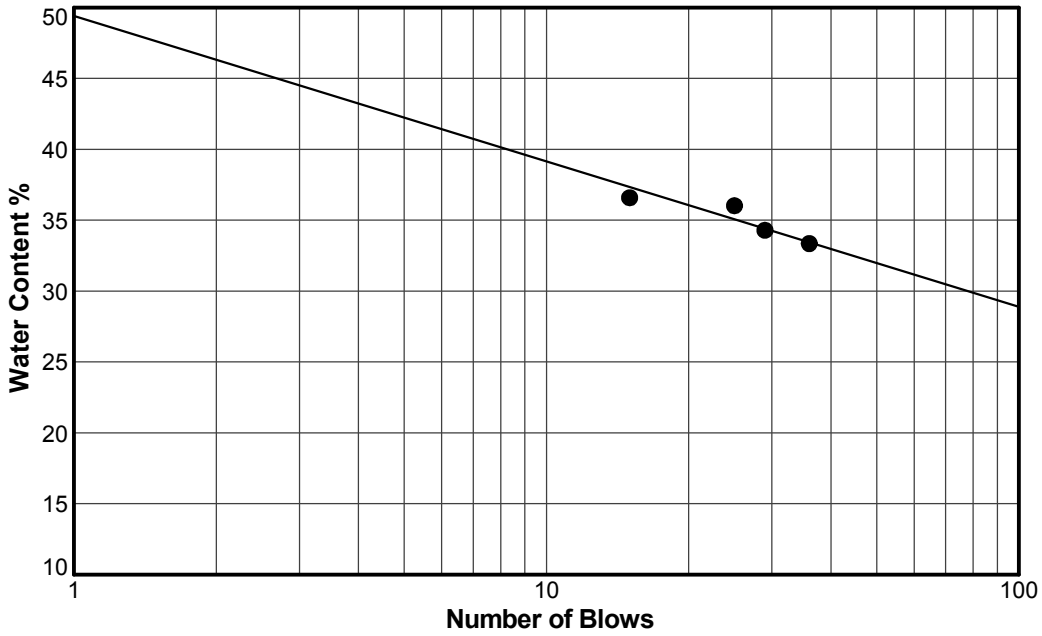
| | | | |
|---|---|---|---|
| **Client:** | BGC Engineering Inc. | **Sample Location:** | BH-BGC10-14 |
| **Project:** | Eagle Gold - 0792004 | **Sample No.:** | G6 |
| **Location:** | Yukon, Canada | **Depth Interval (m):** | 4.50 to 6.00 |
| **Project No.:** | 10-1416-0029 **Phase:** 7000 | **Lab Schedule No.:** | 127 |

**Classification and Definition:** **ML** - Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity.

**Other Remarks:** **N/A**

**Test Method: A-Multi Point** | **Preparation Method: Wet**

| SUMMARY | |
|---|---|
| **Percent Passing #40 Sieve (%)** | **100** |
| **Liquid Limit** | **35** |
| **Plastic Limit** | **27** |
| **Plasticity Index** | **8** |
| **Natural Water Content (%)** | **31.2** |
| **Liquidity Index** | **0.5** |

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# LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS

Reference(s)
**ASTM D 4318-05**

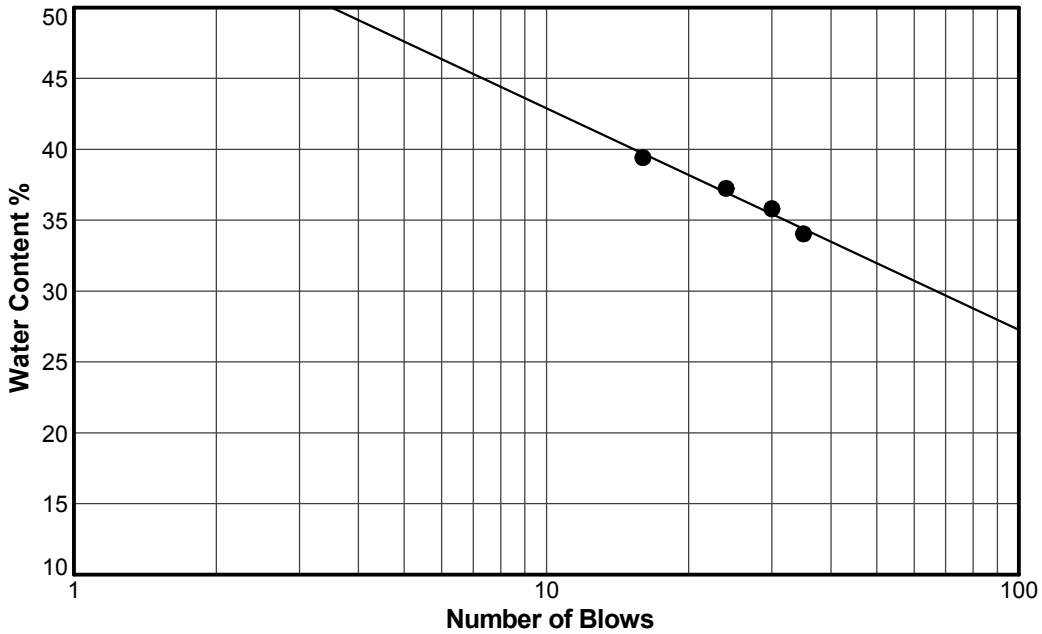
| | | | |
|---|---|---|---|
| **Client:** | BGC Engineering Inc. | **Sample Location:** | BH-BGC10-14 |
| **Project:** | Eagle Gold - 0792004 | **Sample No.:** | G7 |
| **Location:** | Yukon, Canada | **Depth Interval (m):** | 6.00 to 7.50 |
| **Project No.:** | 10-1416-0029 **Phase:** 7000 | **Lab Schedule No.:** | 127 |

**Classification and Definition:** **ML** - Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity.

**Other Remarks:** **N/A**

**Test Method: A-Multi Point** | **Preparation Method: Wet**

| SUMMARY | |
|---|---|
| **Percent Passing #40 Sieve (%)** | **100** |
| **Liquid Limit** | **37** |
| **Plastic Limit** | **27** |
| **Plasticity Index** | **10** |
| **Natural Water Content (%)** | **34.8** |
| **Liquidity Index** | **0.8** |

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# LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS

Reference(s)
**ASTM D 4318-05**

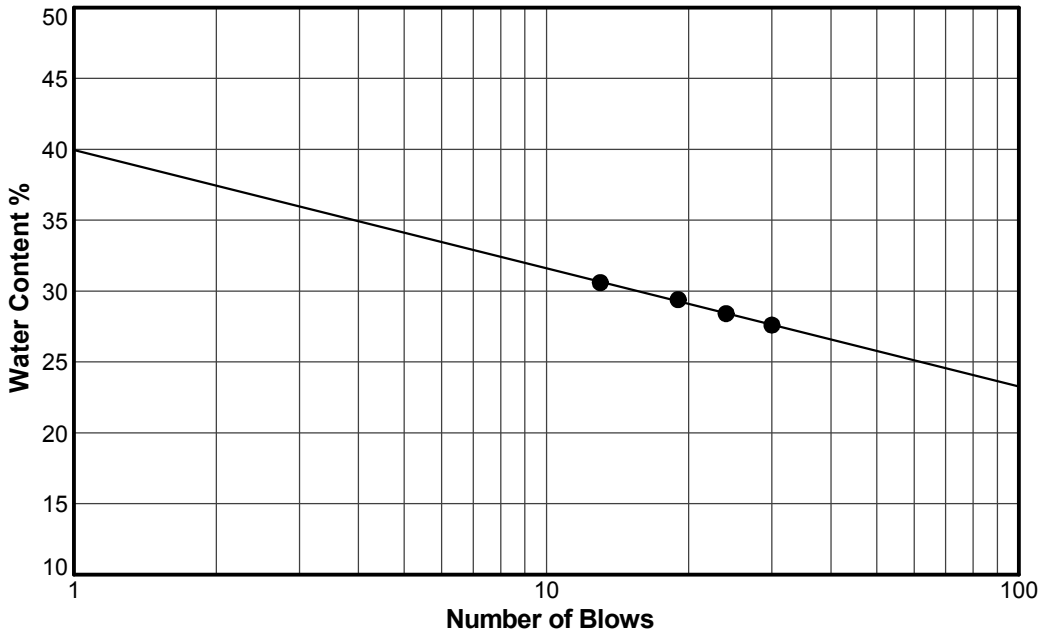
| | | | |
|---|---|---|---|
| **Client:** | BGC Engineering Inc. | **Sample Location:** | BH-BGC10-14B |
| **Project:** | Eagle Gold - 0792004 | **Sample No.:** | G2 |
| **Location:** | Yukon, Canada | **Depth Interval (m):** | 6.45 to 7.50 |
| **Project No.:** | 10-1416-0029 **Phase:** 7000 | **Lab Schedule No.:** | 127 |

**Classification and Definition:** **CL-ML** - Inorganic clays of low to medium plasticity --- Inorganic silts and very fine sands, clayey silts with slight plasticity.

**Other Remarks:** **N/A**

**Test Method: A-Multi Point** | **Preparation Method: Wet**

| SUMMARY | |
|---|---|
| **Percent Passing #40 Sieve (%)** | **100** |
| **Liquid Limit** | **28** |
| **Plastic Limit** | **22** |
| **Plasticity Index** | **6** |
| **Natural Water Content (%)** | **26.0** |
| **Liquidity Index** | **0.7** |




| TM | 16/07/2010 | LP | 20/07/2010 |
|---|---|---|---|
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# LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS

Reference(s)
**ASTM D 4318-05**

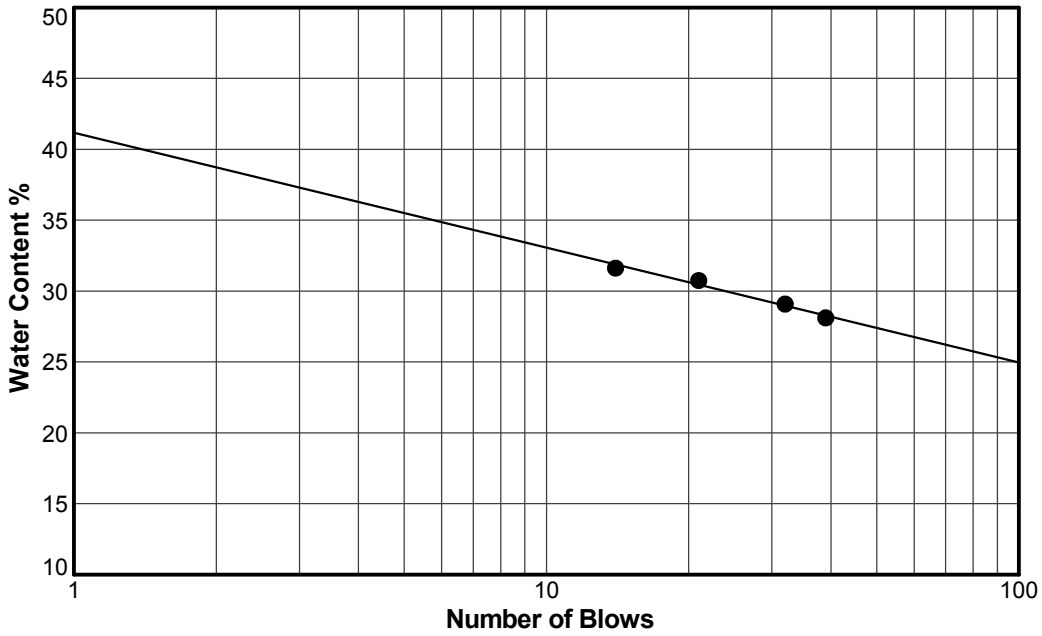
| | | | |
|---|---|---|---|
| **Client:** | BGC Engineering Inc. | **Sample Location:** | BH-BGC10-15 |
| **Project:** | Eagle Gold - 0792004 | **Sample No.:** | GS2 |
| **Location:** | Yukon, Canada | **Depth Interval (m):** | 13.20 to 13.36 |
| **Project No.:** | 10-1416-0029 **Phase:** 7000 | **Lab Schedule No.:** | 127 |

**Classification and Definition:** **ML** - Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity.

**Other Remarks:** **N/A**

**Test Method: A-Multi Point** | **Preparation Method: Air Dried**

| SUMMARY | |
|---|---|
| **Percent Passing #40 Sieve (%)** | **100** |
| **Liquid Limit** | **30** |
| **Plastic Limit** | **25** |
| **Plasticity Index** | **5** |
| **Natural Water Content (%)** | **26.0** |
| **Liquidity Index** | **0.2** |




| EB | 20/07/2010 | LP | 20/07/2010 |
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# LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS

Reference(s)
**ASTM D 4318-05**

| | | | |
|---|---|---|---|
| **Client:** | BGC Engineering Inc. | **Sample Location:** | BH-BGC10-22 |
| **Project:** | Eagle Gold - 0792004 | **Sample No.:** | G2 |
| **Location:** | Yukon, Canada | **Depth Interval (m):** | 0.50 to 1.50 |
| **Project No.:** | 10-1416-0029 **Phase:** 7000 | **Lab Schedule No.:** | 127 |

**Classification and Definition:** **ML** - Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity.

**Other Remarks:** **N/A**

**Test Method: A-Multi Point** | **Preparation Method: Wet**

| SUMMARY | |
|---|---|
| **Percent Passing #40 Sieve (%)** | **100** |
| **Liquid Limit** | **33** |
| **Plastic Limit** | **27** |
| **Plasticity Index** | **6** |
| **Natural Water Content (%)** | **26.6** |
| **Liquidity Index** | **-0.1** |


| EB | 20/07/2010 | LP | 20/07/2010 |
|---|---|---|---|
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# LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS

Reference(s)
**ASTM D 4318-05**

| | | | |
|---|---|---|---|
| **Client:** | BGC Engineering Inc. | **Sample Location:** | BH-BGC10-22 |
| **Project:** | Eagle Gold - 0792004 | **Sample No.:** | G11 |
| **Location:** | Yukon, Canada | **Depth Interval (m):** | 9.00 to 9.30 |
| **Project No.:** | 10-1416-0029 **Phase:** 7000 | **Lab Schedule No.:** | 127 |

**Classification and Definition:** **CL-ML** - Inorganic clays of low to medium plasticity --- Inorganic silts and very fine sands, clayey silts with slight plasticity.

**Other Remarks:** **N/A**

**Test Method: A-Multi Point** | **Preparation Method: Wet**

| SUMMARY | |
|---|---|
| **Percent Passing #40 Sieve (%)** | **100** |
| **Liquid Limit** | **25** |
| **Plastic Limit** | **20** |
| **Plasticity Index** | **5** |
| **Natural Water Content (%)** | **20.1** |
| **Liquidity Index** | **0.3** |


| EB | 20/07/2010 | LP | 20/07/2010 |
|---|---|---|---|
| Tech | Date | Checked | Date |

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# LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS

Reference(s)
**ASTM D 4318-05**

| | | | |
|---|---|---|---|
| **Client:** | BGC Engineering Inc. | **Sample Location:** | BH-BGC10-22 |
| **Project:** | Eagle Gold - 0792004 | **Sample No.:** | SPT#8 |
| **Location:** | Yukon, Canada | **Depth Interval (m):** | 9.00 to 9.45 |
| **Project No.:** | 10-1416-0029 **Phase:** 7000 | **Lab Schedule No.:** | 127 |

**Classification and Definition:** **CL-ML** - Inorganic clays of low to medium plasticity --- Inorganic silts and very fine sands, clayey silts with slight plasticity.

**Other Remarks:** **N/A**

**Test Method: A-Multi Point** | **Preparation Method: Air Dried**

| SUMMARY | |
|---|---|
| **Percent Passing #40 Sieve (%)** | **100** |
| **Liquid Limit** | **28** |
| **Plastic Limit** | **22** |
| **Plasticity Index** | **6** |
| **Natural Water Content (%)** | **21.6** |
| **Liquidity Index** | **-0.3** |


| EB | 20/07/2010 | LP | 20/07/2010 |
|---|---|---|---|
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# LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS

Reference(s)
**ASTM D 4318-05**

| | | | |
|---|---|---|---|
| **Client:** | BGC Engineering Inc. | **Sample Location:** | BH-BGC10-22 |
| **Project:** | Eagle Gold - 0792004 | **Sample No.:** | G13 |
| **Location:** | Yukon, Canada | **Depth Interval (m):** | 10.50 to 12.00 |
| **Project No.:** | 10-1416-0029 **Phase:** 7000 | **Lab Schedule No.:** | 127 |

**Classification and Definition:** **ML** - Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity.

**Other Remarks:** **N/A**

| | |
|---|---|
| **Test Method: A-Multi Point** | **Preparation Method: Wet** |

| SUMMARY | |
|---|---|
| **Percent Passing #40 Sieve (%)** | **100** |
| **Liquid Limit** | **17** |
| **Plastic Limit** | **16** |
| **Plasticity Index** | **1** |
| **Natural Water Content (%)** | **10.8** |
| **Liquidity Index** | **-5.2** |


| | | | |
|---|---|---|---|
| **EB** | **20/07/2010** | **LP** | **20/07/2010** |
| Tech | Date | Checked | Date |


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# LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS

Reference(s)
**ASTM D 4318-05**

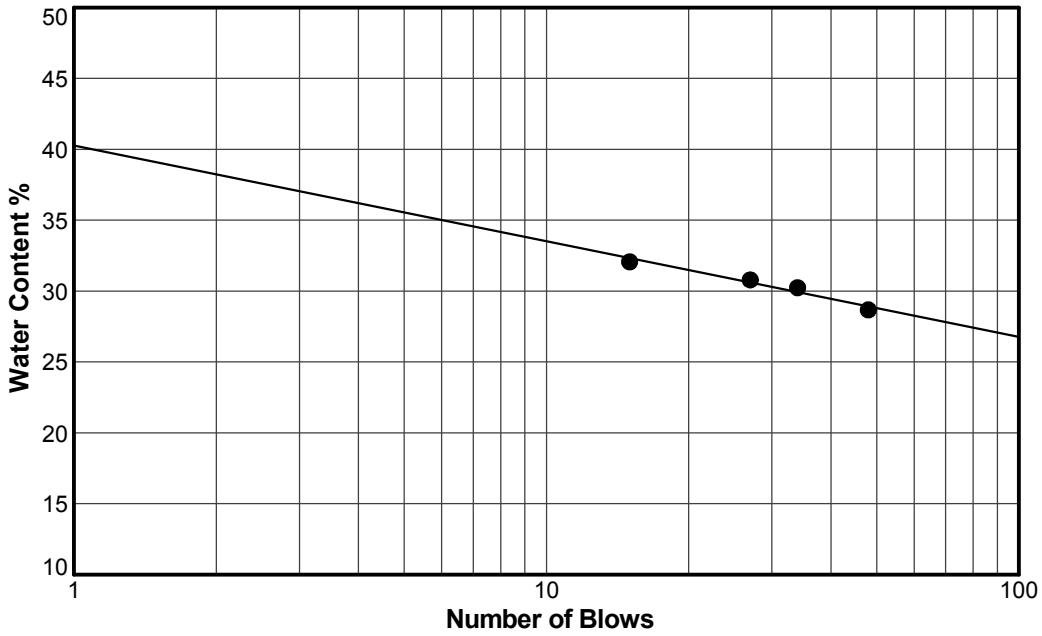
| | | | |
|---|---|---|---|
| **Client:** | BGC Engineering Inc. | **Sample Location:** | BH-BGC10-22 |
| **Project:** | Eagle Gold - 0792004 | **Sample No.:** | G16 |
| **Location:** | Yukon, Canada | **Depth Interval (m):** | 15.00 to 16.00 |
| **Project No.:** | 10-1416-0029 **Phase:** 7000 | **Lab Schedule No.:** | 127 |

**Classification and Definition:** **CL** - Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays.

**Other Remarks:** **N/A**

| | |
|---|---|
| **Test Method: A-Multi Point** | **Preparation Method: Wet** |

| SUMMARY | |
|---|---|
| **Percent Passing #40 Sieve (%)** | **100** |
| **Liquid Limit** | **31** |
| **Plastic Limit** | **20** |
| **Plasticity Index** | **11** |
| **Natural Water Content (%)** | **19.3** |
| **Liquidity Index** | **-0.1** |




| TM | 16/07/2010 | LP | 20/07/2010 |
|---|---|---|---|
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# LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS

Reference(s)
**ASTM D 4318-05**

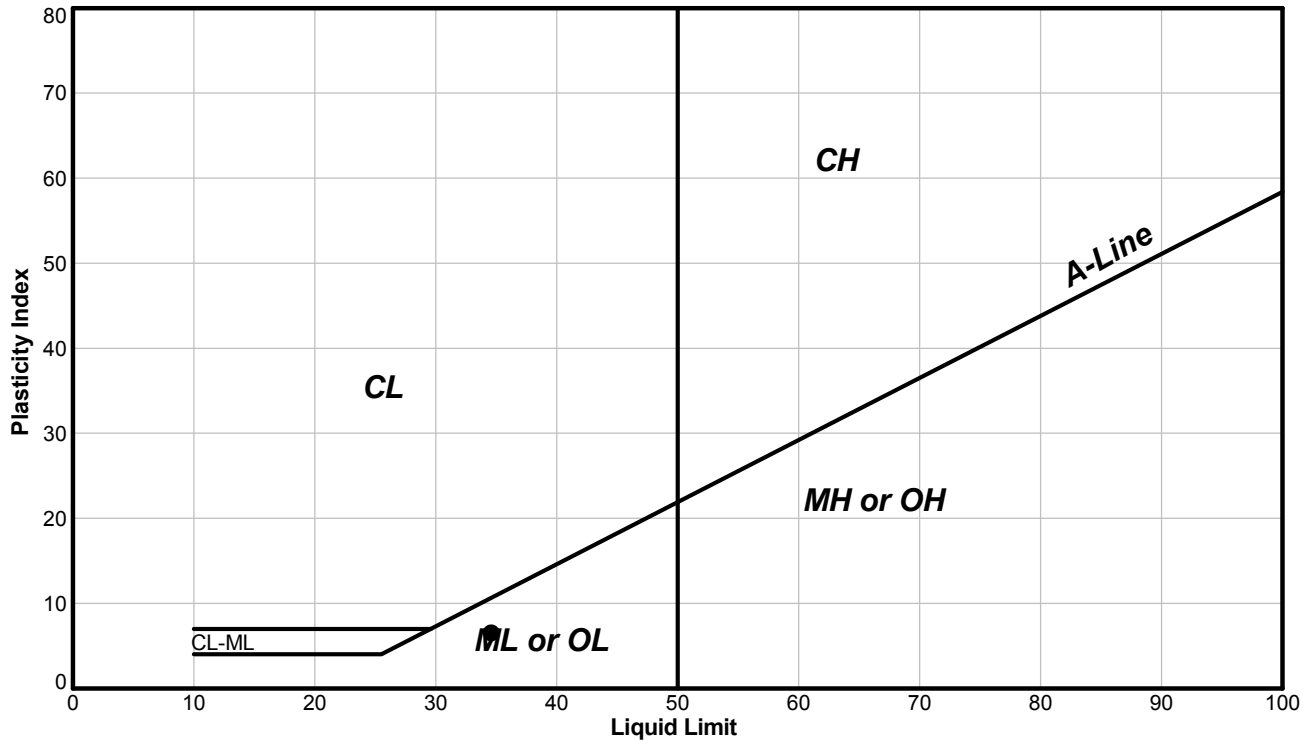
| | |
|---|---|
| **Client:** BGC Engineering Inc. | **Sample Location:** BH-BGC10-14 |
| **Project:** Eagle Gold - 0792004 | **Sample No.:** G2 |
| **Location:** Yukon, Canada | **Depth Interval (m):** 0.00 to 0.00 |
| **Project No.:** 10-1416-0029 **Phase:** 7000 | **Lab Schedule No.:** 127 |

**Classification and Definition:** **ML** - Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity.

**Other Remarks:**

| | |
|---|---|
| **Test Method: A-Multi Point** | **Preparation Method: Air Dried** |

**PLASTICITY CHART**




| Sym. | Sample Location | Sample Number | Depth (m) | Bottom (m) | Percent Passing #40 Sieve (%) | Liquid Limit | Plastic Limit | Plasticity Index | Natural Water Content (%) | Liquidity Index |
|---|---|---|---|---|---|---|---|---|---|---|
| ● | BH-BGC10-14 | G2 | 0.00 | 0.00 | 100 | 35 | 28 | 7 | 24.8 | -0.5 |

| | | | |
|---|---|---|---|
| **EB** | **20/07/2010** | **LP** | **20/07/2010** |
| Tech | Date | Checked | Date |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# LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS

Reference(s)
**ASTM D 4318-05**

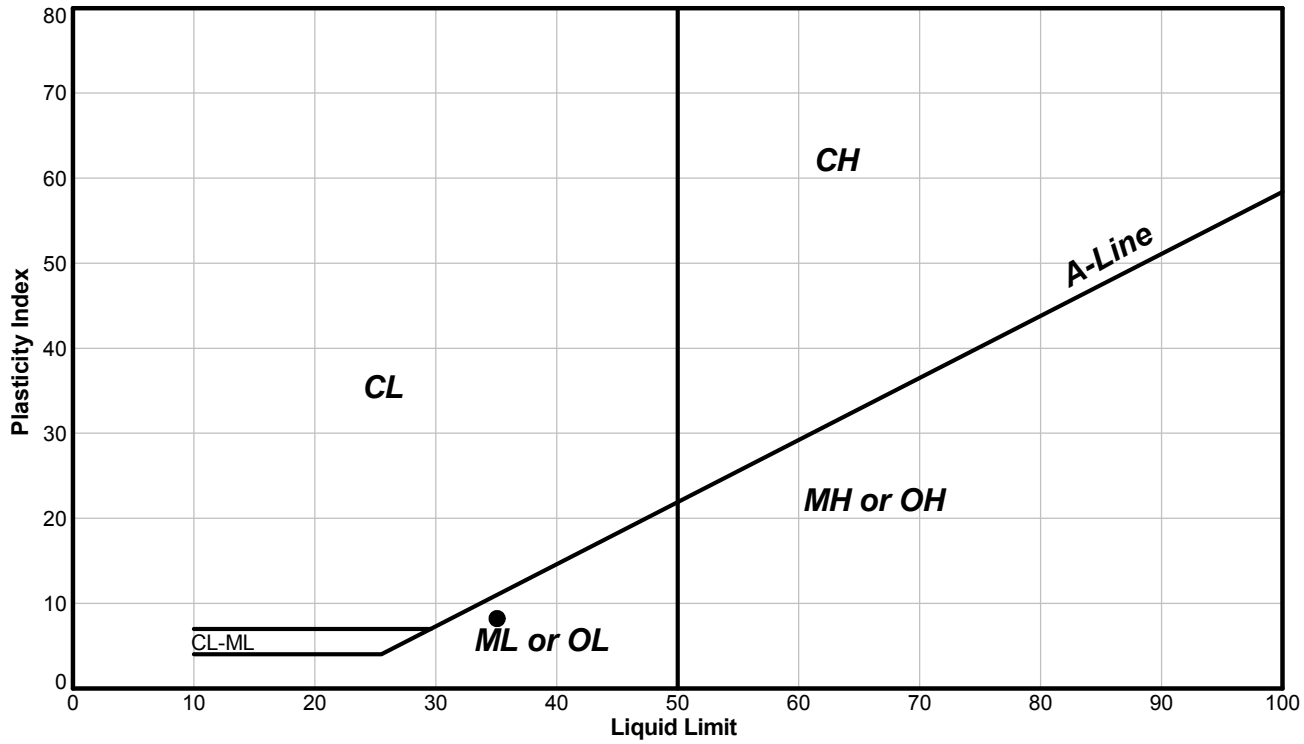
| | |
|---|---|
| **Client:** BGC Engineering Inc. | **Sample Location:** BH-BGC10-14 |
| **Project:** Eagle Gold - 0792004 | **Sample No.:** G6 |
| **Location:** Yukon, Canada | **Depth Interval (m):** 4.50 to 6.00 |
| **Project No.:** 10-1416-0029 **Phase:** 7000 | **Lab Schedule No.:** 127 |

**Classification and Definition:** **ML** - Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity.

**Other Remarks:**

| | |
|---|---|
| **Test Method: A-Multi Point** | **Preparation Method: Wet** |

**PLASTICITY CHART**




| Sym. | Sample Location | Sample Number | Depth (m) | Bottom (m) | Percent Passing #40 Sieve (%) | Liquid Limit | Plastic Limit | Plasticity Index | Natural Water Content (%) | Liquidity Index |
|---|---|---|---|---|---|---|---|---|---|---|
| ● | BH-BGC10-14 | G6 | 4.50 | 6.00 | 100 | 35 | 27 | 8 | 31.2 | 0.5 |

| TM | 16/07/2010 | LP | 20/07/2010 |
|---|---|---|---|
| Tech | Date | Checked | Date |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# LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS

Reference(s)
**ASTM D 4318-05**

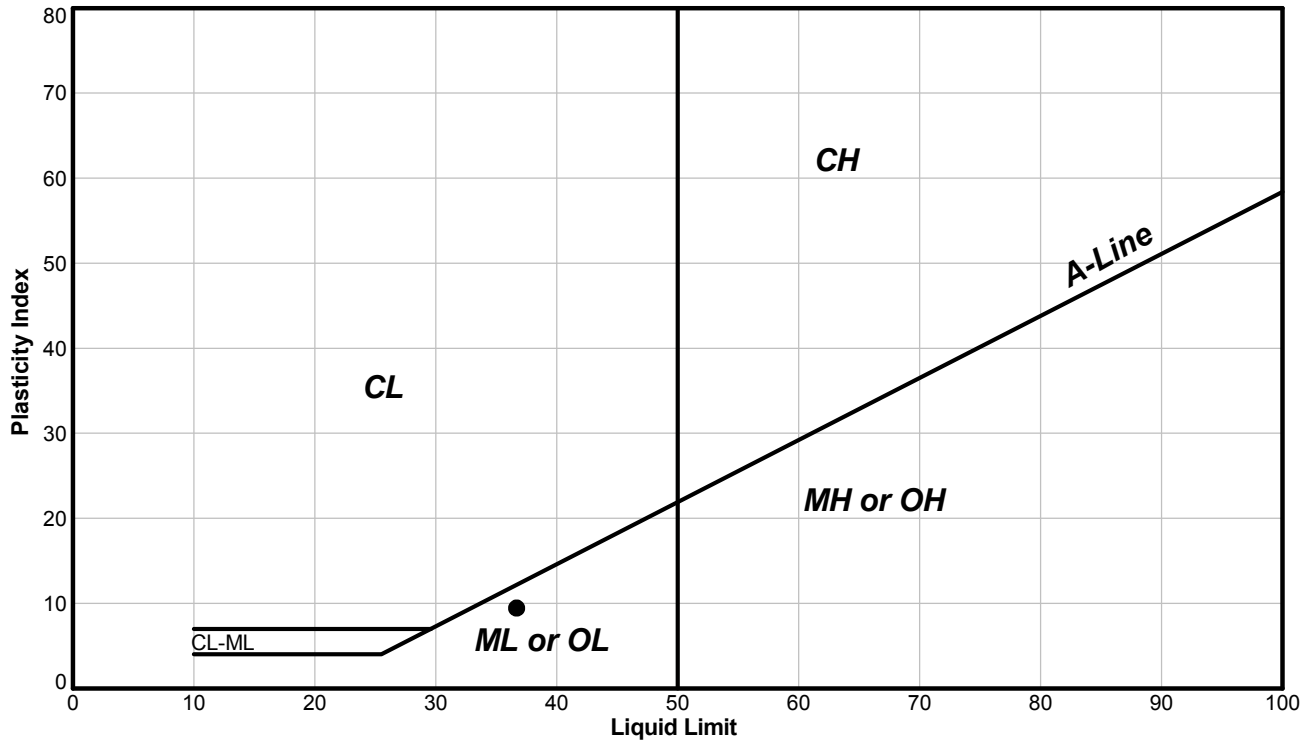
| | | | |
|---|---|---|---|
| **Client:** | BGC Engineering Inc. | **Sample Location:** | BH-BGC10-14 |
| **Project:** | Eagle Gold - 0792004 | **Sample No.:** | G7 |
| **Location:** | Yukon, Canada | **Depth Interval (m):** | 6.00 to 7.50 |
| **Project No.:** | 10-1416-0029 **Phase:** 7000 | **Lab Schedule No.:** | 127 |

**Classification and Definition:** **ML** - Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity.

**Other Remarks:**

**Test Method: A-Multi Point** | **Preparation Method: Wet**

**PLASTICITY CHART**




| Sym. | Sample Location | Sample Number | Depth (m) | Bottom (m) | Percent Passing #40 Sieve (%) | Liquid Limit | Plastic Limit | Plasticity Index | Natural Water Content (%) | Liquidity Index |
|---|---|---|---|---|---|---|---|---|---|---|
| ● | BH-BGC10-14 | G7 | 6.00 | 7.50 | 100 | 37 | 27 | 10 | 34.8 | 0.8 |

| TM | 16/07/2010 | LP | 20/07/2010 |
|---|---|---|---|
| Tech | Date | Checked | Date |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# LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS

Reference(s)
**ASTM D 4318-05**

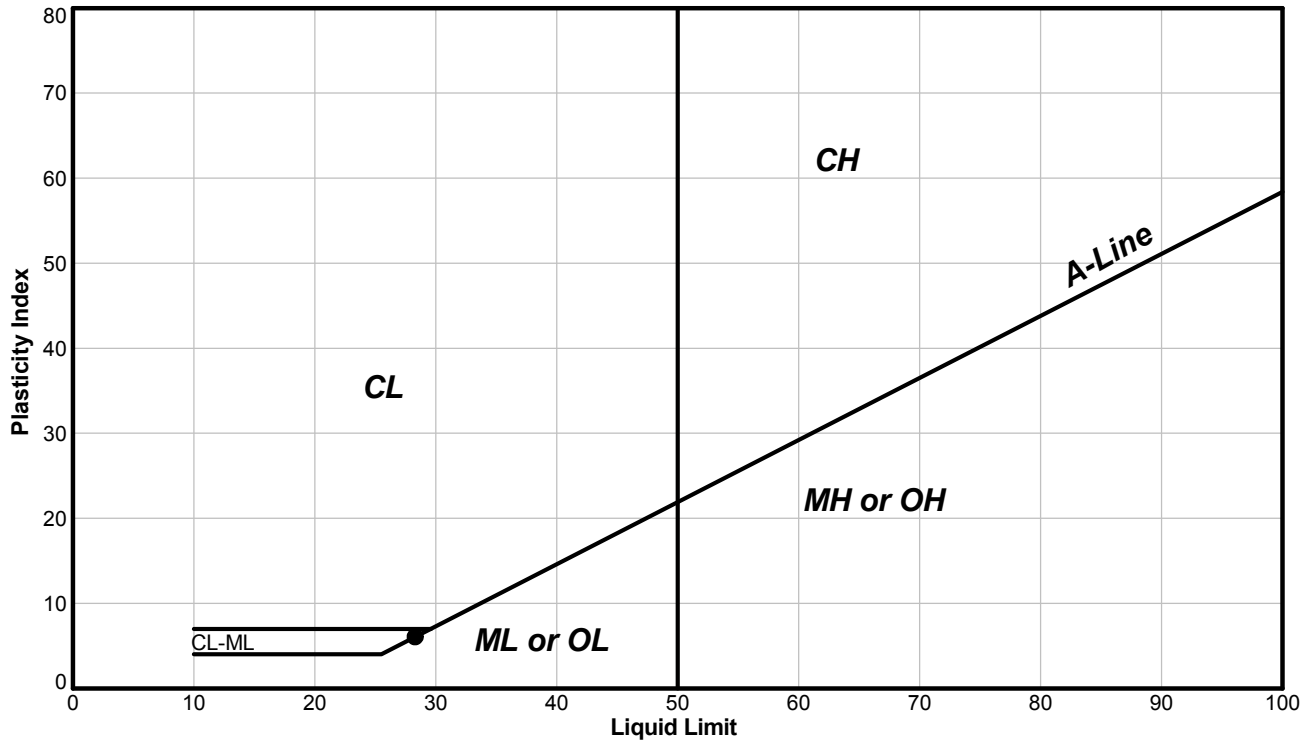
| | | | |
|---|---|---|---|
| **Client:** | BGC Engineering Inc. | **Sample Location:** | BH-BGC10-14B |
| **Project:** | Eagle Gold - 0792004 | **Sample No.:** | G2 |
| **Location:** | Yukon, Canada | **Depth Interval (m):** | 6.45 to 7.50 |
| **Project No.:** | 10-1416-0029 **Phase:** 7000 | **Lab Schedule No.:** | 127 |

**Classification and Definition:** **CL-ML** - Inorganic clays of low to medium plasticity --- Inorganic silts and very fine sands, clayey silts with slight plasticity.

**Other Remarks:**

**Test Method: A-Multi Point** | **Preparation Method: Wet**

**PLASTICITY CHART**




| Sym. | Sample Location | Sample Number | Depth (m) | Bottom (m) | Percent Passing #40 Sieve (%) | Liquid Limit | Plastic Limit | Plasticity Index | Natural Water Content (%) | Liquidity Index |
|---|---|---|---|---|---|---|---|---|---|---|
| ● | BH-BGC10-14B | G2 | 6.45 | 7.50 | 100 | 28 | 22 | 6 | 26.0 | 0.7 |

| TM | 16/07/2010 | LP | 20/07/2010 |
|---|---|---|---|
| Tech | Date | Checked | Date |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# LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS

Reference(s)
**ASTM D 4318-05**

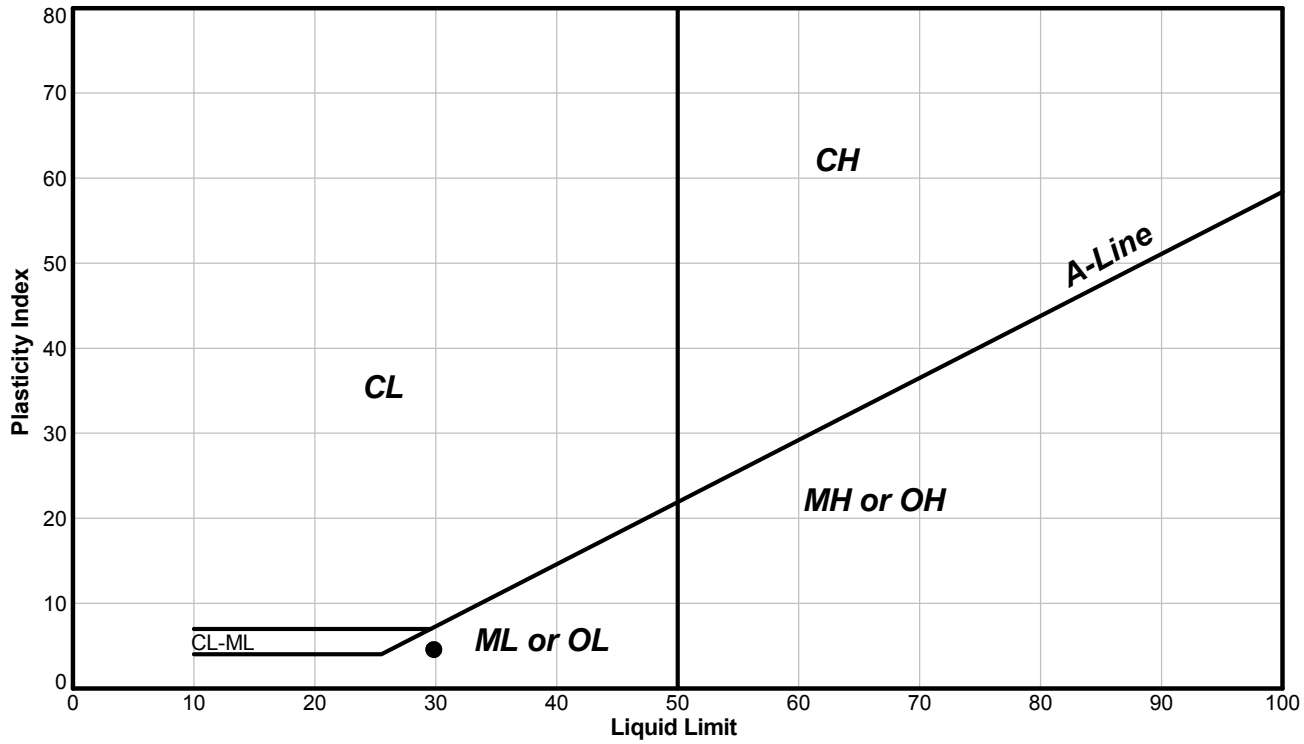
| | |
|---|---|
| **Client:** BGC Engineering Inc. | **Sample Location:** BH-BGC10-15 |
| **Project:** Eagle Gold - 0792004 | **Sample No.:** GS2 |
| **Location:** Yukon, Canada | **Depth Interval (m):** 13.20 to 13.36 |
| **Project No.:** 10-1416-0029 **Phase:** 7000 | **Lab Schedule No.:** 127 |

**Classification and Definition:** **ML** - Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity.

**Other Remarks:**

| | |
|---|---|
| **Test Method: A-Multi Point** | **Preparation Method: Air Dried** |

**PLASTICITY CHART**




| Sym. | Sample Location | Sample Number | Depth (m) | Bottom (m) | Percent Passing #40 Sieve (%) | Liquid Limit | Plastic Limit | Plasticity Index | Natural Water Content (%) | Liquidity Index |
|---|---|---|---|---|---|---|---|---|---|---|
| ● | BH-BGC10-15 | GS2 | 13.20 | 13.36 | 100 | 30 | 25 | 5 | 26.0 | 0.2 |

| | | | |
|---|---|---|---|
| **EB** | **20/07/2010** | **LP** | **20/07/2010** |
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# LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS

Reference(s)
**ASTM D 4318-05**

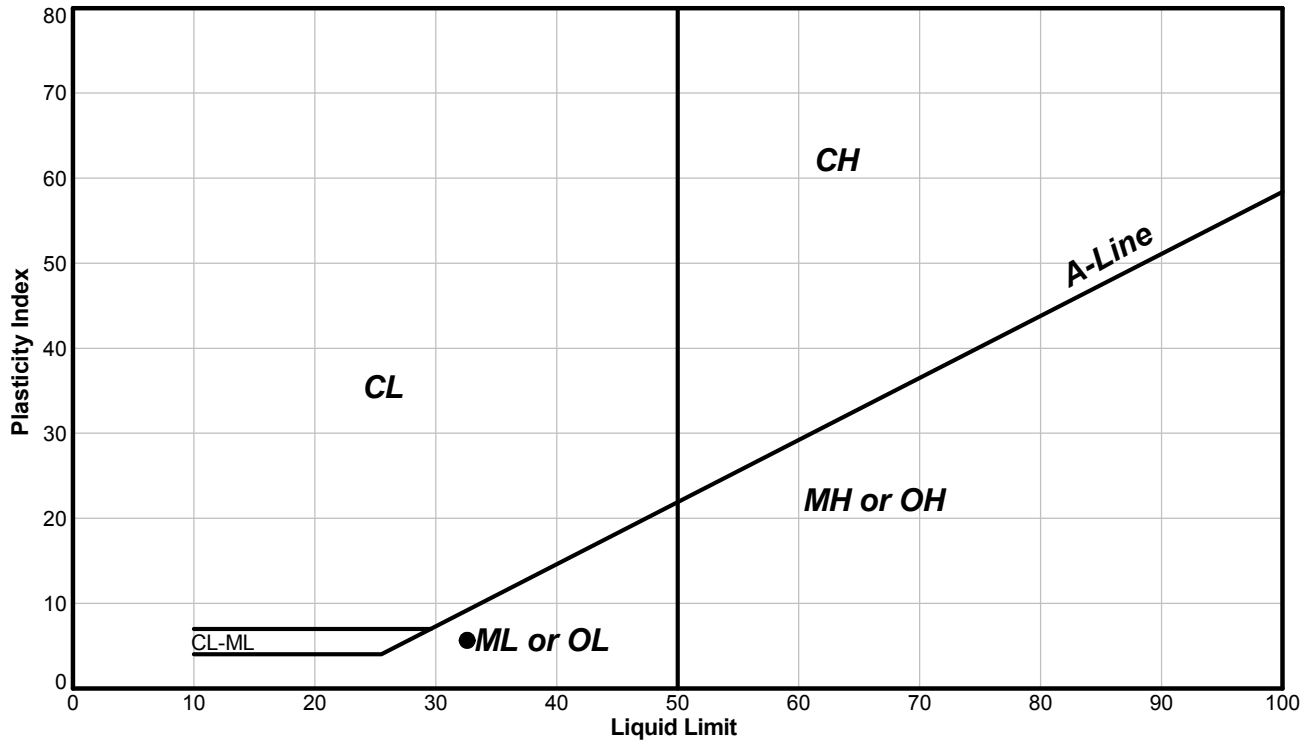
| | |
|---|---|
| **Client:** BGC Engineering Inc. | **Sample Location:** BH-BGC10-22 |
| **Project:** Eagle Gold - 0792004 | **Sample No.:** G2 |
| **Location:** Yukon, Canada | **Depth Interval (m):** 0.50 to 1.50 |
| **Project No.:** 10-1416-0029 **Phase:** 7000 | **Lab Schedule No.:** 127 |

**Classification and Definition:** **ML** - Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity.

**Other Remarks:**

| | |
|---|---|
| **Test Method: A-Multi Point** | **Preparation Method: Wet** |

**PLASTICITY CHART**




| Sym. | Sample Location | Sample Number | Depth (m) | Bottom (m) | Percent Passing #40 Sieve (%) | Liquid Limit | Plastic Limit | Plasticity Index | Natural Water Content (%) | Liquidity Index |
|---|---|---|---|---|---|---|---|---|---|---|
| ● | BH-BGC10-22 | G2 | 0.50 | 1.50 | 100 | 33 | 27 | 6 | 26.6 | -0.1 |

| | | | |
|---|---|---|---|
| **EB** | **20/07/2010** | **LP** | **20/07/2010** |
| Tech | Date | Checked | Date |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# LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS

Reference(s)
**ASTM D 4318-05**

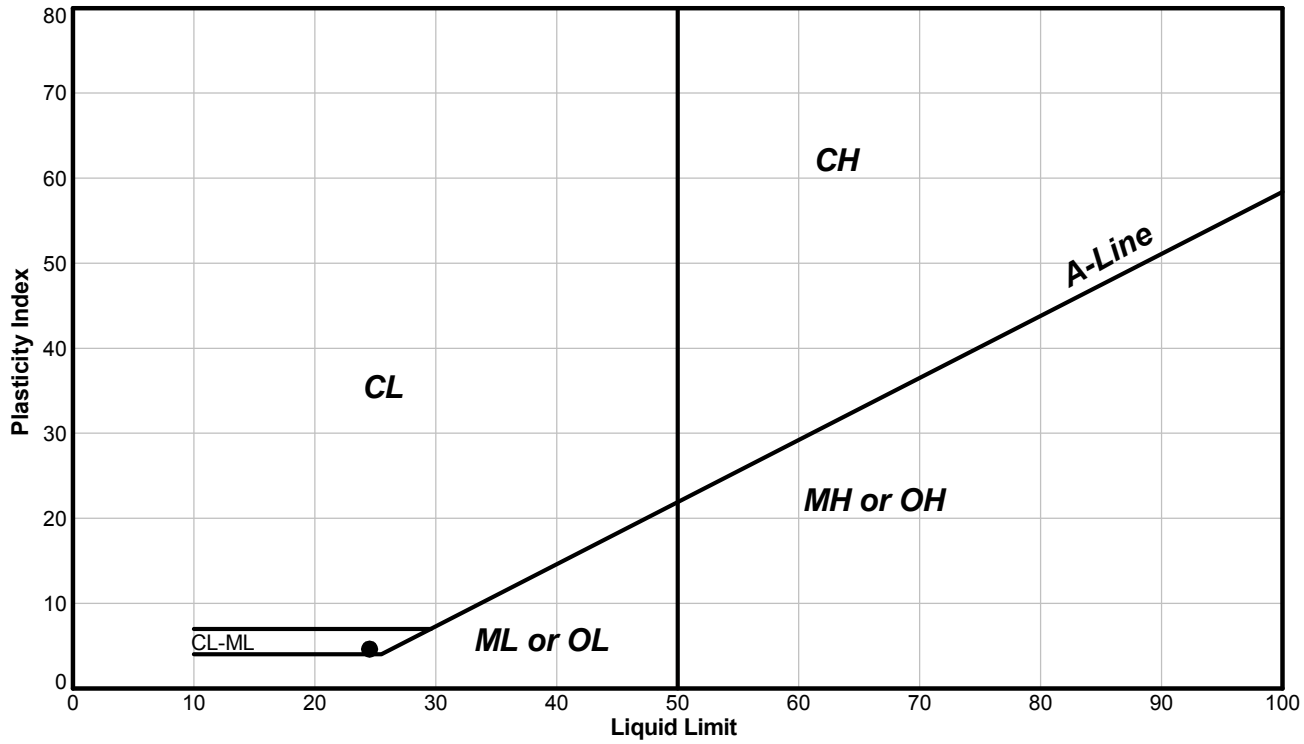
| | | | |
|---|---|---|---|
| **Client:** | BGC Engineering Inc. | **Sample Location:** | BH-BGC10-22 |
| **Project:** | Eagle Gold - 0792004 | **Sample No.:** | G11 |
| **Location:** | Yukon, Canada | **Depth Interval (m):** | 9.00 to 9.30 |
| **Project No.:** | 10-1416-0029 **Phase:** 7000 | **Lab Schedule No.:** | 127 |

**Classification and Definition:** **CL-ML** - Inorganic clays of low to medium plasticity --- Inorganic silts and very fine sands, clayey silts with slight plasticity.

**Other Remarks:**

**Test Method: A-Multi Point** | **Preparation Method: Wet**

**PLASTICITY CHART**




| Sym. | Sample Location | Sample Number | Depth (m) | Bottom (m) | Percent Passing #40 Sieve (%) | Liquid Limit | Plastic Limit | Plasticity Index | Natural Water Content (%) | Liquidity Index |
|---|---|---|---|---|---|---|---|---|---|---|
| ● | BH-BGC10-22 | G11 | 9.00 | 9.30 | 100 | 25 | 20 | 5 | 20.1 | 0.3 |

| | | | |
|---|---|---|---|
| **EB** | **20/07/2010** | **LP** | **20/07/2010** |
| Tech | Date | Checked | Date |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# LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS

Reference(s)
**ASTM D 4318-05**

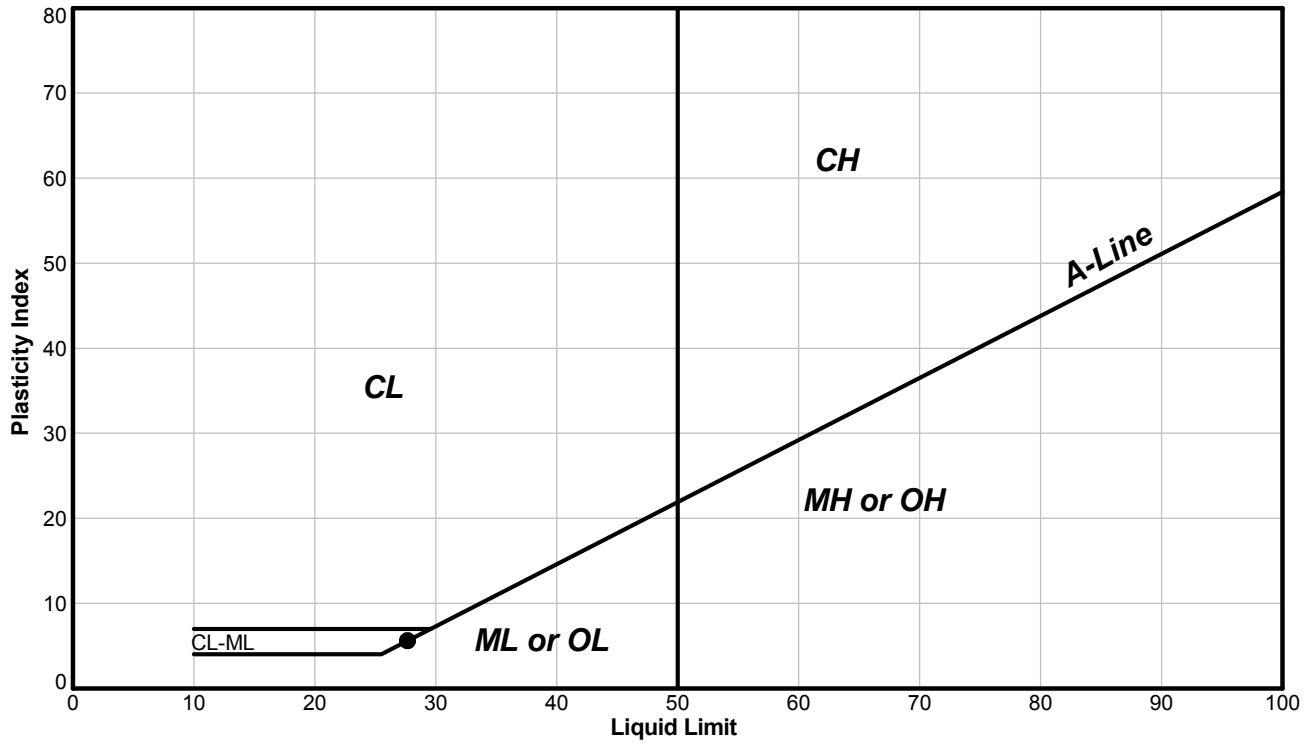
| | | | |
|---|---|---|---|
| **Client:** | BGC Engineering Inc. | **Sample Location:** | BH-BGC10-22 |
| **Project:** | Eagle Gold - 0792004 | **Sample No.:** | SPT#8 |
| **Location:** | Yukon, Canada | **Depth Interval (m):** | 9.00 to 9.45 |
| **Project No.:** | 10-1416-0029 **Phase:** 7000 | **Lab Schedule No.:** | 127 |

**Classification and Definition:** **CL-ML** - Inorganic clays of low to medium plasticity --- Inorganic silts and very fine sands, clayey silts with slight plasticity.

**Other Remarks:**

**Test Method: A-Multi Point** | **Preparation Method: Air Dried**

**PLASTICITY CHART**




| Sym. | Sample Location | Sample Number | Depth (m) | Bottom (m) | Percent Passing #40 Sieve (%) | Liquid Limit | Plastic Limit | Plasticity Index | Natural Water Content (%) | Liquidity Index |
|---|---|---|---|---|---|---|---|---|---|---|
| ● | BH-BGC10-22 | SPT#8 | 9.00 | 9.45 | 100 | 28 | 22 | 6 | 21.6 | -0.3 |

| | | | |
|---|---|---|---|
| **EB** | **20/07/2010** | **LP** | **20/07/2010** |
| Tech | Date | Checked | Date |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# LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS

Reference(s)
**ASTM D 4318-05**

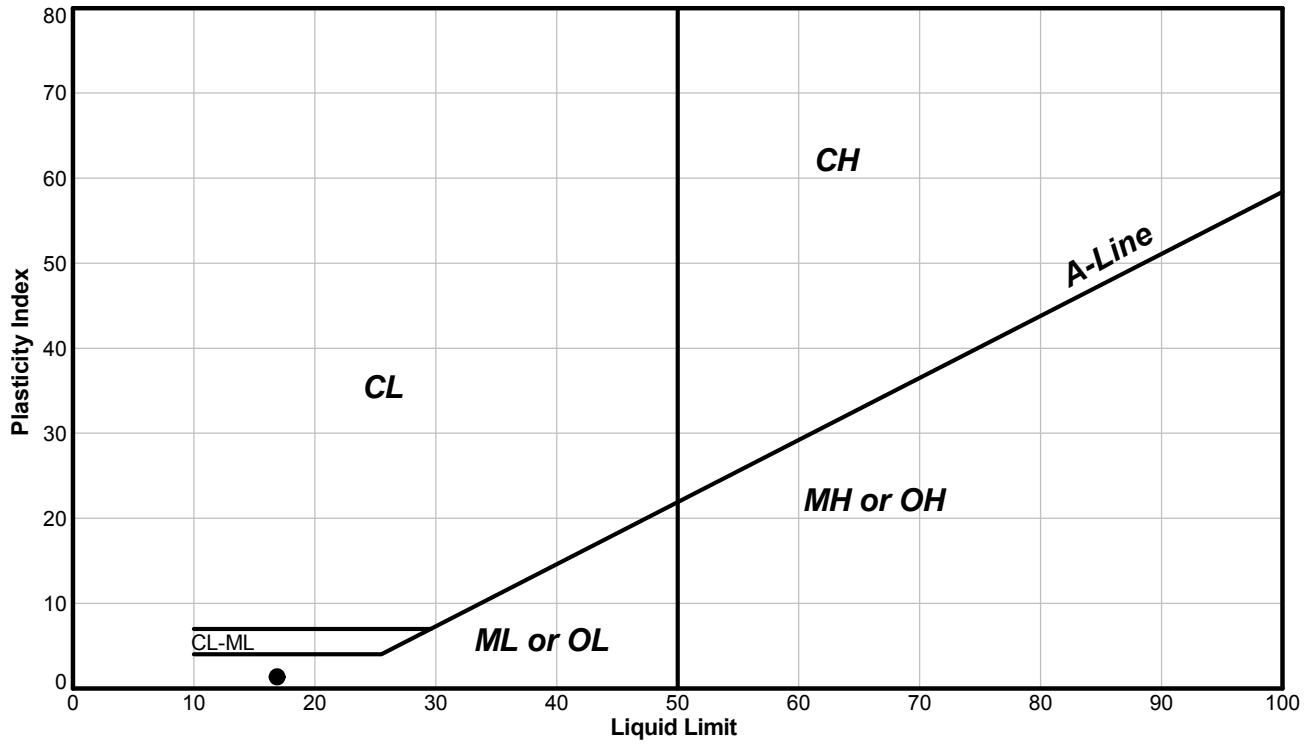
| | |
|---|---|
| **Client:** BGC Engineering Inc. | **Sample Location:** BH-BGC10-22 |
| **Project:** Eagle Gold - 0792004 | **Sample No.:** G13 |
| **Location:** Yukon, Canada | **Depth Interval (m):** 10.50 to 12.00 |
| **Project No.:** 10-1416-0029 **Phase:** 7000 | **Lab Schedule No.:** 127 |

**Classification and Definition:** **ML** - Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity.

**Other Remarks:**

| | |
|---|---|
| **Test Method: A-Multi Point** | **Preparation Method: Wet** |

**PLASTICITY CHART**




| Sym. | Sample Location | Sample Number | Depth (m) | Bottom (m) | Percent Passing #40 Sieve (%) | Liquid Limit | Plastic Limit | Plasticity Index | Natural Water Content (%) | Liquidity Index |
|---|---|---|---|---|---|---|---|---|---|---|
| ● | BH-BGC10-22 | G13 | 10.50 | 12.00 | 100 | 17 | 16 | 1 | 10.8 | -5.2 |

| | | | |
|---|---|---|---|
| **EB** | **20/07/2010** | **LP** | **20/07/2010** |
| Tech | Date | Checked | Date |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# LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS

Reference(s)
**ASTM D 4318-05**

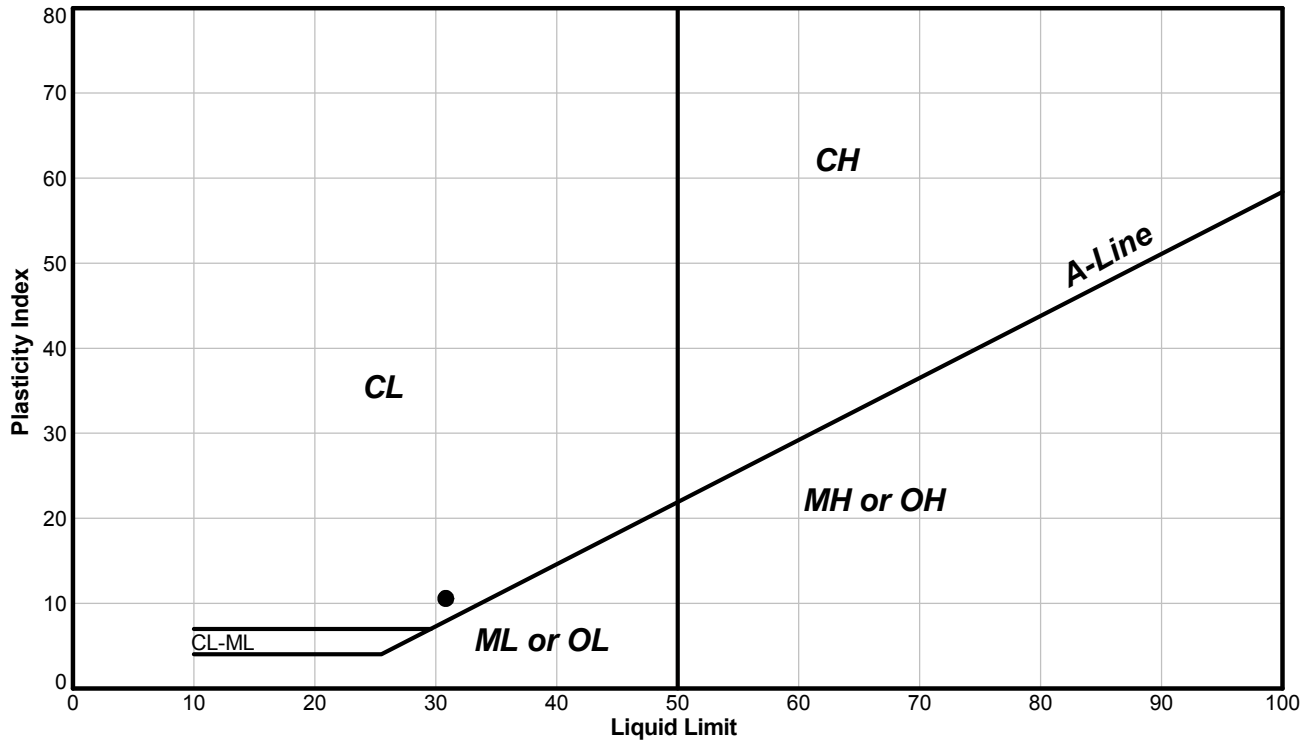
| | | | |
|---|---|---|---|
| **Client:** | BGC Engineering Inc. | **Sample Location:** | BH-BGC10-22 |
| **Project:** | Eagle Gold - 0792004 | **Sample No.:** | G16 |
| **Location:** | Yukon, Canada | **Depth Interval (m):** | 15.00 to 16.00 |
| **Project No.:** | 10-1416-0029 **Phase:** 7000 | **Lab Schedule No.:** | 127 |

**Classification and Definition:** **CL** - Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays.

**Other Remarks:**

**Test Method: A-Multi Point** | **Preparation Method: Wet**

**PLASTICITY CHART**




| Sym. | Sample Location | Sample Number | Depth (m) | Bottom (m) | Percent Passing #40 Sieve (%) | Liquid Limit | Plastic Limit | Plasticity Index | Natural Water Content (%) | Liquidity Index |
|---|---|---|---|---|---|---|---|---|---|---|
| ● | BH-BGC10-22 | G16 | 15.00 | 16.00 | 100 | 31 | 20 | 11 | 19.3 | -0.1 |

| TM | 16/07/2010 | LP | 20/07/2010 |
|---|---|---|---|
| Tech | Date | Checked | Date |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# SPECIFIC GRAVITY OF SOIL SOLIDS

**Reference**
ASTM C 127-07
ASTM D 854-06 Method B

| | | | |
|---|---|---|---|
| **Project No.:** | 10-1416-0029/7000 | **Borehole** | **BH-BGC10-14B** |
| **Client:** | BGC Engineering Inc. | **Sample No.:** | G2 |
| **Project:** | Eagle Gold #0792004 | **Depth (m):** | 6.45-7.50 |
| **Location:** | Yukon, Canada | **Lab Sch No:** | 127 |

## Specific Gravity of Fine Fraction (ASTM D 854-06)

| Percentage Passing #4 sieve | | 100 | | |
|---|---|---|---|---|
| Test Number | | 1 | | 2 |
| Flask Number | | 5 | | 6 |
| Air Removal Method | | Vacuum | | Vacuum |
| Mass of Flask (g) | | 174.76 | | 173.32 |
| Mass of Flask + Dry Soil (g) | $M_P$ | 301.30 | | 296.84 |
| Mass of Dry Soil (g) | | 126.54 | | 123.51 |
| Mass of Flask + Soil + Water (g) | $M_{\rho ws,t}$ | 753.91 | | 750.42 |
| Test Temperature (g) | $T_t$ | 25.40 | | 25.40 |
| Mass of Flask + Water (g) | $M_{\rho w,t}$ | 672.56 | | 670.83 |
| Mass of Dish + Dry Soil (g) | | 449.15 | | 376.00 |
| Mass of Dish (g) | | 322.61 | | 252.49 |
| Mass of Oven Dry Soil (g) | $M_S$ | 126.54 | | 123.51 |
| Temperature Coefficient | $K$ | 1.00 | | 1.00 |
| Density of Solids (g/cm3) | $\rho_s$ | 2.80 | | 2.81 |
| Specific Gravity at Test Temperature | $G_t$ | 2.81 | | 2.82 |
| Specific Gravity at 20ºC | $G_{20°C}$ | 2.81 | | 2.82 |
| **AVERAGE SPECIFIC GRAVITY** | | **2.81** | | |

## Specific Gravity of Coarse Fraction (ASTM C 127-07)

| Percentage Retained on #4 sieve | | |
|---|---|---|
| Mass of Sample in Water (g) | A | |
| Mass of Sample @ SSD (g) | B | |
| Mass of Oven Dryed Sample (g) | C | |
| Bulk G (Oven Dry) | C/(B-A) | |
| Bulk G (SSD) | B/(B-A) | |
| Apparent | C/(C-A) | |
| Absorbtion (%) | (B-C)/C | |

## Combined Specific Gravity

| | | |
|---|---|---|
| COMBINED SPECIFIC GRAVITY | $G_{avg\ @20°C}$ | 2.81 |

** The test data given herein pertain to the sample provided only. This report constitutes a testing service only. Interpretation of the data can be provided upon request.*

| | | | |
|---|---|---|---|
| EB | July 12, 2010 | LP | July 21,2010 |
| TESTED BY | DATE | CHECKED BY | DATE |

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# SPECIFIC GRAVITY OF SOIL SOLIDS

**Reference**
ASTM C 127-07
ASTM D 854-06 Method B

| | | | |
|---|---|---|---|
| **Project No.:** | 10-1416-0029/7000 | **Borehole** | **BH-BGC10-14B** |
| **Client:** | BGC Engineering Inc. | **Sample No.:** | G6 |
| **Project:** | Eagle Gold #0792004 | **Depth (m):** | 12.0-13.5 |
| **Location:** | Yukon, Canada | **Lab Sch No:** | 127 |

## Specific Gravity of Fine Fraction (ASTM D 854-06)

| Percentage Passing #4 sieve | | 100 | | |
|---|---|---|---|---|
| Test Number | | 1 | | 2 |
| Flask Number | | 3 | | 4 |
| Air Removal Method | | Vacuum | | Vacuum |
| Mass of Flask (g) | | 173.93 | | 172.67 |
| Mass of Flask + Dry Soil (g) | $M_P$ | 291.74 | | 289.12 |
| Mass of Dry Soil (g) | | 117.80 | | 116.45 |
| Mass of Flask + Soil + Water (g) | $M_{\rho ws,t}$ | 746.25 | | 744.05 |
| Test Temperature (g) | $T_t$ | 27.00 | | 27.00 |
| Mass of Flask + Water (g) | $M_{\rho w,t}$ | 671.57 | | 670.31 |
| Mass of Dish + Dry Soil (g) | | 262.37 | | 374.08 |
| Mass of Dish (g) | | 144.57 | | 257.63 |
| Mass of Oven Dry Soil (g) | $M_S$ | 117.80 | | 116.45 |
| Temperature Coefficient | $K$ | 1.00 | | 1.00 |
| Density of Solids (g/cm3) | $\rho_s$ | 2.73 | | 2.73 |
| Specific Gravity at Test Temperature | $G_t$ | 2.74 | | 2.74 |
| Specific Gravity at 20ºC | $G_{20°C}$ | 2.74 | | 2.73 |
| **AVERAGE SPECIFIC GRAVITY** | | **2.73** | | |

## Specific Gravity of Coarse Fraction (ASTM C 127-07)

| Percentage Retained on #4 sieve | | |
|---|---|---|
| Mass of Sample in Water (g) | A | |
| Mass of Sample @ SSD (g) | B | |
| Mass of Oven Dryed Sample (g) | C | |
| Bulk G (Oven Dry) | C/(B-A) | |
| Bulk G (SSD) | B/(B-A) | |
| Apparent | C/(C-A) | |
| Absorbtion (%) | (B-C)/C | |

## Combined Specific Gravity

| | | |
|---|---|---|
| COMBINED SPECIFIC GRAVITY | $G_{avg\ @20°C}$ | 2.73 |

** The test data given herein pertain to the sample provided only. This report constitutes a testing service only. Interpretation of the data can be provided upon request.*

| | | | |
|---|---|---|---|
| EB | July 12, 2010 | LP | July 21,2010 |
| TESTED BY | DATE | CHECKED BY | DATE |

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# SPECIFIC GRAVITY OF SOIL SOLIDS

**Reference**
ASTM C 127-07
ASTM D 854-06 Method B

| | | | |
|---|---|---|---|
| **Project No.:** | 10-1416-0029/7000 | **Borehole** | **BH-BGC10-14B** |
| **Client:** | BGC Engineering Inc. | **Sample No.:** | G9 |
| **Project:** | Eagle Gold #0792004 | **Depth (m):** | 15.70-16.20 |
| **Location:** | Yukon, Canada | **Lab Sch No:** | 127 |

## Specific Gravity of Fine Fraction (ASTM D 854-06)

| Percentage Passing #4 sieve | | 100 | | |
|---|---|---|---|---|
| Test Number | | 1 | | 2 |
| Flask Number | | 7 | | 8 |
| Air Removal Method | | Vacuum | | Vacuum |
| Mass of Flask (g) | | 171.20 | | 174.50 |
| Mass of Flask + Dry Soil (g) | $M_P$ | 287.76 | | 292.98 |
| Mass of Dry Soil (g) | | 116.59 | | 118.48 |
| Mass of Flask + Soil + Water (g) | $M_{\rho ws,t}$ | 742.13 | | 746.60 |
| Test Temperature (g) | $T_t$ | 27.30 | | 27.30 |
| Mass of Flask + Water (g) | $M_{\rho w,t}$ | 668.38 | | 671.97 |
| Mass of Dish + Dry Soil (g) | | 261.16 | | 376.11 |
| Mass of Dish (g) | | 144.57 | | 257.63 |
| Mass of Oven Dry Soil (g) | $M_S$ | 116.59 | | 118.48 |
| Temperature Coefficient | $K$ | 1.00 | | 1.00 |
| Density of Solids (g/cm3) | $\rho_s$ | 2.72 | | 2.70 |
| Specific Gravity at Test Temperature | $G_t$ | 2.73 | | 2.71 |
| Specific Gravity at 20ºC | $G_{20°C}$ | 2.73 | | 2.71 |
| **AVERAGE SPECIFIC GRAVITY** | | **2.72** | | |

## Specific Gravity of Coarse Fraction (ASTM C 127-07)

| Percentage Retained on #4 sieve | | |
|---|---|---|
| Mass of Sample in Water (g) | A | |
| Mass of Sample @ SSD (g) | B | |
| Mass of Oven Dryed Sample (g) | C | |
| Bulk G (Oven Dry) | C/(B-A) | |
| Bulk G (SSD) | B/(B-A) | |
| Apparent | C/(C-A) | |
| Absorbtion (%) | (B-C)/C | |

## Combined Specific Gravity

| | | |
|---|---|---|
| COMBINED SPECIFIC GRAVITY | Gavg @20°C | 2.72 |

** The test data given herein pertain to the sample provided only. This report constitutes a testing service only. Interpretation of the data can be provided upon request.*

| | | | |
|---|---|---|---|
| EB | July 12, 2010 | LP | July 21,2010 |
| TESTED BY | DATE | CHECKED BY | DATE |

**Golder Associates Ltd. - Burnaby Laboratory**
4280 Still Creek Drive
Burnaby, B.C. Canada V5C 6C8

# Description and Identification of Samples (Visual-Manual Procedure)

**Reference**
ASTM D 2488-06

| | | | |
|---|---|---|---|
| **Project No.:** | 10-1416-0029/7000 | **Lab Sch No:** | 127 |
| **Client:** | BGC Engineering Inc. | **Other remarks:** | |
| **Project:** | Eagle Gold 0792004 | | |
| **Location:** | Yukon, Canada | | |

| BOREHOLE | SAMPLE | DEPTH (m) | DESCRIPTION |
|---|---|---|---|
| BH-BGC10-22 | **G16** | 15.00-16.00 | Moist, Med. Greyish-brown Silty Clay with some fine Gravel. |
| BH-BGC10-22 | **SPT #8** | 9.00-9.45 | Moist, light Greyish-brown Clayey Silt with trace Sand. |
| BH-BGC10-14 | **SPT#2** | 3.00-3.45 | Moist Med. Brown Sand and Gravel, trace Silt. |
| BH-BGC10-14 | **SPT#6** | 9.50-9.95 | Wet, Reddish-brown Gravel and coarse Sand, little Silt. |
| BH-BGC10-14 | **SPT#11** | 16.40-16.85 | Moist, Brownish-grey fine Sand and some Gravel, little Silt |
| BH-BGC10-14 | **SPT#12** | 18.00-18.22 | Moist, Med. Reddish-brown coarse Sand and some fine Gravel, little Silt. |
| BH-BGC10-14B | **SPT#3** | 4.50-4.95 | Wet, Dark brownish-grey organic Sandy Silt, 10% organics with fibrous mats. |

** The test data given herein pertain to the sample provided only. This report constitutes a testing service only. Interpretation of the data can be provided upon request.*

| EB | July 9, 2010 | LP | July 21,2010 |
|---|---|---|---|
| TESTED BY | DATE | CHECKED BY | DATE |

# LABORATORY DETERMINATION OF WATER (MOISTURE) CONTENT OF SOIL AND ROCK BY MASS

***ASTM D 2216***

December 2, 2010
Project number: 10-1416-0029/17000

BGC Engineering Inc.
Suite 630 – 1718 Argyle Street
Halifax, NS
B3J 3N6

ATTENTION: Mr. Anthony Urquhart, P. Eng.

**PROJECT:** **Eagle Gold Project**

| | |
|---|---|
| **Sample:** | **TP-BGC10-38** |
| **Source:** | **Yukon** |

**Date sampled:** November, 2010
**Date tested:** November 24, 2010

**Sampled by:** Client
**Tested by:** VN

| | |
|---|---|
| **Moisture Content (%)** | **3.4** |

Reported by: I. Chung

Reviewed by: _____
L. Hu, M. Sc. E.

*Notice:* The test data given herein pertain to the sample provided, and may not be applicable to material from other production zones/periods. This report constitutes a testing service only. Interpretation of the data given here may be provided upon request.

# SIEVE ANALYSIS OF FINE AND COARSE AGGREGATE

*CSA A23.2-2A*

BGC Engineering Inc.
Suite 630 - 1718 Argyle Street
Halifax, NS
B3J 3N6

December 2, 2010
Project number: 10-1416-0029/17000

ATTENTION: Mr. Anthony Urquhart, P. Eng.

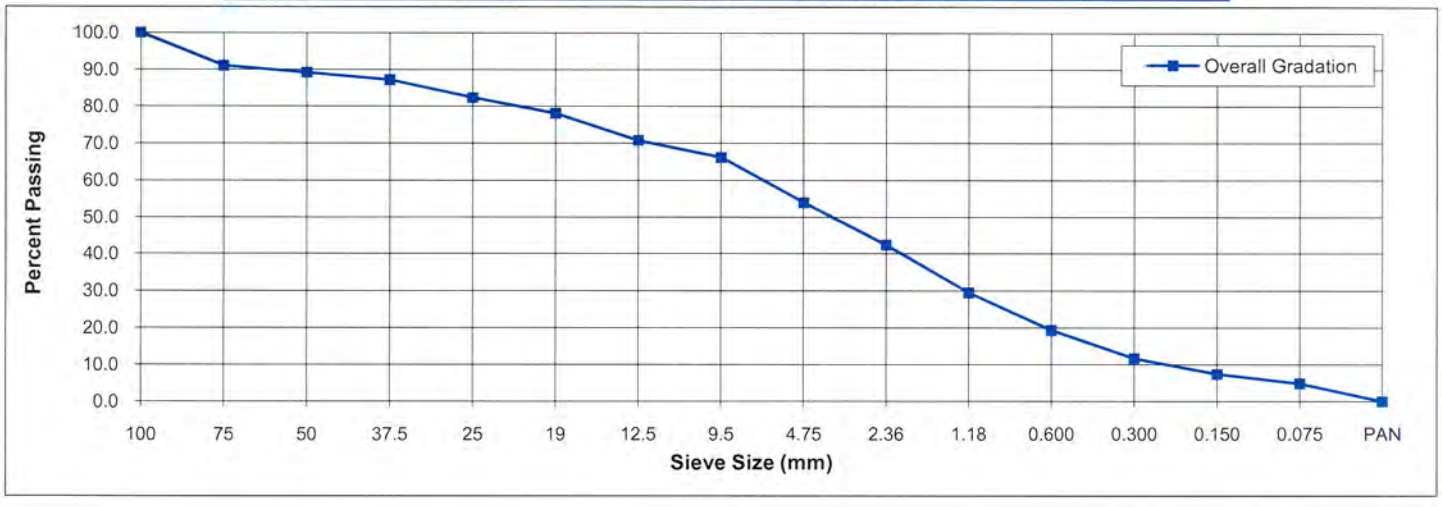
**PROJECT:** Eagle Gold Project

| **Sample:** | **TP-BGC10-38** |
|---|---|
| **Source** | **Yukon** |

**DATE SAMPLED:** November, 2010
**DATE TESTED:** November 23, 2010

**SAMPLED BY:** Client
**TESTED BY:** VN/DC

| SIEVE ANALYSIS | | | | | MATERIAL SPECIFICATION : |
|---|---|---|---|---|---|
| Sieve Size (mm) | % Retained | % Passing | Individual % Retained (Split values) | | |
| | | | + 4.75 | - 4.75 | |
| 100 | 0.0 | 100.0 | 0.0 | | |
| 75 | 9.0 | 91.0 | 19.5 | | |
| 50 | 1.9 | 89.2 | 4.0 | | |
| 37.5 | 2.0 | 87.1 | 4.4 | | |
| 25 | 4.8 | 82.3 | 10.5 | | |
| 19 | 4.3 | 78.1 | 9.2 | | |
| 12.5 | 7.3 | 70.8 | 15.8 | | |
| 9.5 | 4.6 | 66.1 | 10.0 | | |
| 4.75 | 12.2 | 53.9 | 26.5 | | |
| 2.36 | 11.7 | 42.3 | | 21.6 | |
| 1.18 | 12.8 | 29.4 | | 23.8 | |
| 0.600 | 10.2 | 19.3 | | 18.8 | |
| 0.300 | 7.6 | 11.7 | | 14.1 | |
| 0.150 | 4.3 | 7.4 | | 7.9 | |
| 0.075 | 2.5 | 4.9 | | 4.7 | |
| PAN | 4.9 | 0 | | 9.0 | |
| Total | 100.0 | | 100.0 | 100.0 | |




Reported by: I. Chung

Reviewed by: L. Hu, M. Sc. E.

Notice: The test data given herein pertain to the sample provided, and may not be applicable to material from other zones/depths. This report constitutes a testing service only. Interpretation of the data given here may be provided upon request.

# LABORATORY COMPACTION CHARACTERISTICS OF SOIL USING MODIFIED EFFORT ASTM D1557

| | | | |
|---|---|---|---|
| Client: | BGC Engineering Inc. | Project No: | 10-1416-0029 |
| Short Title: | Eagle Gold Project | Phase No.: | 17000 |
| Sample #: | TP-BGC10-38 | Date sampled: | November 2010 |
| Location: | | Sampled by: | Client |
| Source | Yukon | Date tested: | November 25, 2010 |
| Description of Sample: | Light Brown Sand & Gravel Trace Silt | Tested by: | DT |

***Compaction Test Results:***

| water content (%) | dry density ($kg/m^3$) | dry unit weight ($kN/m^3$) |
|---|---|---|
| 4.8 | 2041 | 20.02 |
| 6.8 | 2082 | 20.42 |
| 9.1 | 2088 | 20.47 |
| 10.5 | 2048 | 20.08 |

| | | |
|---|---|---|
| ***Maximum dry density:*** | ***2094*** | ***$kg/m^3$*** |
| ***Corrected for oversize material:*** | ***2195*** | ***$kg/m^3$*** |
| *Maximum dry unit weight:* | *20.54* | *$kN/m^3$* |
| *Corrected for oversize material:* | *21.5* | *$kN/m^3$* |
| ***Optimum water content:*** | ***8.2*** | ***%*** |
| ***Corrected for oversize material:*** | ***6.7*** | ***%*** |

***Test Summary:***

| | | |
|---|---|---|
| Method used: | C | |
| Material used passing: | 19.0 mm | sieve |
| Preparation method: | Dry | |
| Rammer type: | Mechanical | |

***Oversize Correction Data (if applicable):***

| | | |
|---|---|---|
| Oversize fraction: | 21.9 | % |
| Bulk Specific Gravity | 2.65 | value: assumed |
| Water content | 1.5 | value: assumed |

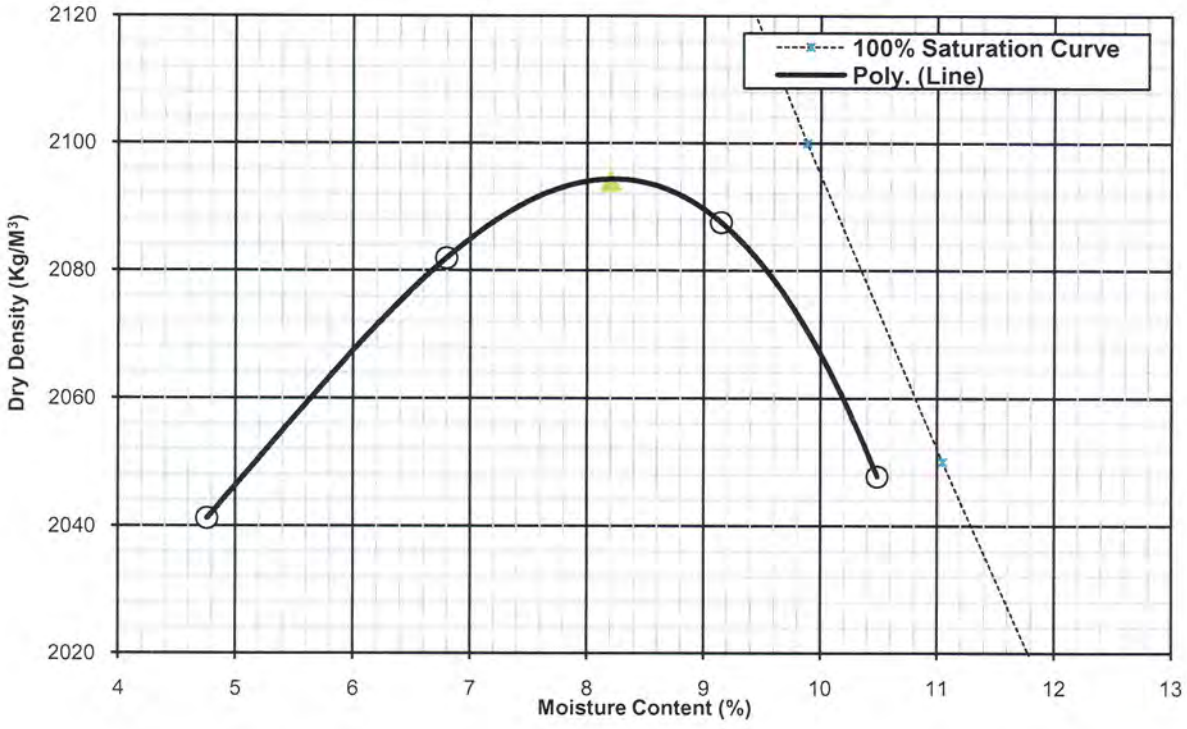
***100% Saturation Curve Data:***

| | | | |
|---|---|---|---|
| Specific Gravity: | 2.65 | value: | assumed |

Comments:

Water content of sample as received:

***Graphical Analysis - Uncorrected for Oversize Material***




Reviewed By: _____
L. Hu, M. Sc. E.

The testing reported herein have been performed in accordance with the indicated recognized standard. This report presents the results of field or lab test(s) and is for testing service only. Engineering interpretation or evaluation of the test results can be provided upon request.

# RELATIVE DENSITY (SPECIFIC GRAVITY) AND ABSORPTION OF COARSE AGGREGATE

***ASTM C 127***

December 2, 2010
Project number: 10-1416-0029/17000

BGC Engineering Inc.
Suite 630 – 1718 Argyle Street
Halifax, NS
B3J 3N6

ATTENTION: Mr. Anthony Urquhart, P. Eng.

**PROJECT:** **Eagle Gold Project**

| | |
|---|---|
| **Sample:** | **TP-BGC10-38** |
| **Source:** | **Yukon** |

**Date sampled:** November, 2010
**Date tested:** November 24, 2010

**Sampled by:** Client
**Tested by:** DC

| Trial No. | Relative Density (dry basis) | Relative Density (SSD basis) | Apparent Relative Density | Absorption (%) |
|---|---|---|---|---|
| 1 | 2.606 | 2.639 | 2.695 | 1.27 |
| 2 | 2.595 | 2.626 | 2.678 | 1.19 |
| **AVERAGE** | **2.601** | **2.632** | **2.686** | **1.23** |

Reported by: I. Chung

Reviewed by: _____
L. Hu, M. Sc. E

# RELATIVE DENSITY (SPECIFIC GRAVITY) AND ABSORPTION OF FINE AGGREGATE

***ASTM C 128***

December 2, 2010
Project number: 10-1416-0029/17000

BGC Engineering Inc.
Suite 630 – 1718 Argyle Street
Halifax, NS
B3J 3N6

ATTENTION: Mr. Anthony Urquhart, P. Eng.

**PROJECT:** **Eagle Gold Project**

| | |
|---|---|
| **Sample:** | **TP-BGC10-38** |
| **Source:** | **Yukon** |

**Date sampled:** November, 2010
**Date tested:** November 24, 2010

**Sampled by:** Client
**Tested by:** DC

| Trial No. | Relative Density (dry basis) | Relative Density (SSD basis) | Apparent Relative Density | Absorption (%) |
|---|---|---|---|---|
| 1 | 2.513 | 2.588 | 2.716 | 2.98 |
| 2 | 2.505 | 2.580 | 2.709 | 3.01 |
| **AVERAGE** | **2.509** | **2.584** | **2.713** | **2.99** |

Reported by: I. Chung

Reviewed by: _____
L. Hu, M. Sc. E.

*Notice:* The test data given herein pertain to the sample provided, and may not be applicable to material from other production zones/periods. This report constitutes a testing service only. Interpretation of the data given here may be provided upon request.

# LABORATORY DETERMINATION OF WATER (MOISTURE) CONTENT OF SOIL AND ROCK BY MASS

***ASTM D 2216***

December 2, 2010
Project number: 10-1416-0029/17000

BGC Engineering Inc.
Suite 630 – 1718 Argyle Street
Halifax, NS
B3J 3N6

ATTENTION: Mr. Anthony Urquhart, P. Eng.

**PROJECT:** **Eagle Gold Project**

| | |
|---|---|
| **Sample:** | **TP-BGC10-44** |
| **Source:** | **Yukon** |

**Date sampled:** November, 2010
**Date tested:** November 24, 2010

**Sampled by:** Client
**Tested by:** VN

| | |
|---|---|
| **Moisture Content (%)** | **5.1** |

Reported by: I. Chung

Reviewed by: _____
L. Hu, M. Sc. E.

*Notice:* The test data given herein pertain to the sample provided, and may not be applicable to material from other production zones/periods. This report constitutes a testing service only. Interpretation of the data given here may be provided upon request.

# SIEVE ANALYSIS OF FINE AND COARSE AGGREGATE

*CSA A23.2-2A*

BGC Engineering Inc.
Suite 630 - 1718 Argyle Street
Halifax, NS
B3J 3N6

December 2, 2010
Project number: 10-1416-0029/17000

ATTENTION: Mr. Anthony Urquhart, P. Eng.

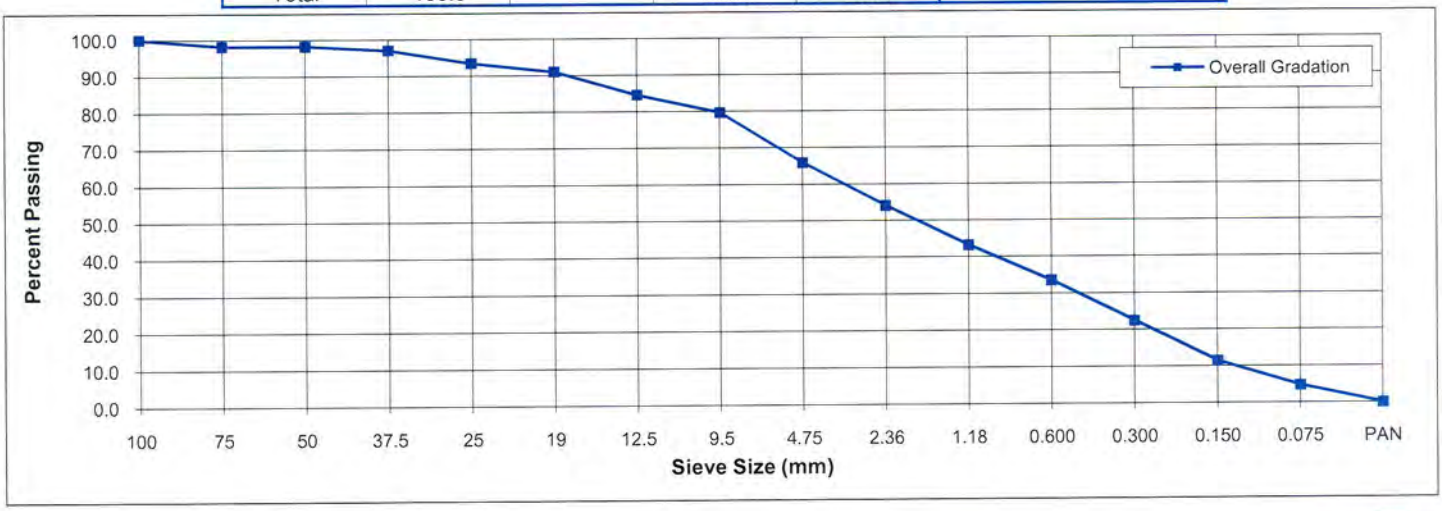
**PROJECT:** Eagle Gold Project

| **Sample:** | **TP-BGC10-44** |
|---|---|
| **Source** | **Yukon** |

**DATE SAMPLED:** November, 2010
**DATE TESTED:** November 23, 2010

**SAMPLED BY:** Client
**TESTED BY:** VN/DC

| SIEVE ANALYSIS | | | | | MATERIAL SPECIFICATION : |
|---|---|---|---|---|---|
| Sieve Size (mm) | % Retained | % Passing | Individual % Retained (Split values) | | |
| | | | + 4.75 | - 4.75 | |
| 100 | 0.0 | 100.0 | 0.0 | | |
| 75 | 1.8 | 98.2 | 5.4 | | |
| 50 | 0.0 | 98.2 | 0.0 | | |
| 37.5 | 1.2 | 97.0 | 3.5 | | |
| 25 | 3.6 | 93.4 | 10.6 | | |
| 19 | 2.4 | 91.0 | 7.0 | | |
| 12.5 | 6.4 | 84.5 | 18.9 | | |
| 9.5 | 4.9 | 79.6 | 14.3 | | |
| 4.75 | 13.8 | 65.9 | 40.3 | | |
| 2.36 | 11.8 | 54.0 | | 18.0 | |
| 1.18 | 10.9 | 43.1 | | 16.6 | |
| 0.600 | 9.6 | 33.5 | | 14.6 | |
| 0.300 | 11.1 | 22.4 | | 16.9 | |
| 0.150 | 11.0 | 11.4 | | 16.7 | |
| 0.075 | 6.6 | 4.7 | | 10.1 | |
| PAN | 4.7 | 0 | | 7.2 | |
| Total | 100.0 | | 100.0 | 100.0 | |




Reported by: I. Chung

Reviewed by: _____
L. Hu, M. Sc. E.

# LABORATORY COMPACTION CHARACTERISTICS OF SOIL USING MODIFIED EFFORT ASTM D1557

| | | | |
|---|---|---|---|
| Client: | BGC Engineering Inc. | Project No: | 10-1416-0029 |
| Short Title: | Eagle Gold Project | Phase No.: | 17000 |
| Sample #: | TP-BGC10-44 | Date sampled: | November 2010 |
| Location: | | Sampled by: | Client |
| Source | Yukon | Date tested: | November 25, 2010 |
| Description of Sample: | Med. Brown Sand & Gravel Trace Silt | Tested by: | DT |

***Compaction Test Results:***

| water content (%) | dry density ($kg/m^3$) | dry unit weight ($kN/m^3$) |
|---|---|---|
| 5.3 | 2041 | 20.02 |
| 6.9 | 2062 | 20.23 |
| 9.1 | 2060 | 20.20 |
| 3.0 | 2034 | 19.95 |

| | | |
|---|---|---|
| ***Maximum dry density:*** | ***2069*** | ***$kg/m^3$*** |
| ***Corrected for oversize material:*** | ***2108*** | ***$kg/m^3$*** |
| *Maximum dry unit weight:* | *20.29* | *$kN/m^3$* |
| *Corrected for oversize material:* | *20.7* | *$kN/m^3$* |
| ***Optimum water content:*** | ***8.0*** | ***%*** |
| ***Corrected for oversize material:*** | ***7.4*** | ***%*** |

***Test Summary:***

| | | |
|---|---|---|
| Method used: | C | |
| Material used passing: | 19.0 mm | sieve |
| Preparation method: | Dry | |
| Rammer type: | Mechanical | |

***Oversize Correction Data (if applicable):***

| | | |
|---|---|---|
| Oversize fraction: | 9.0 | % |
| Bulk Specific Gravity | 2.60 | value: assumed |
| Water content | 1.5 | value: assumed |

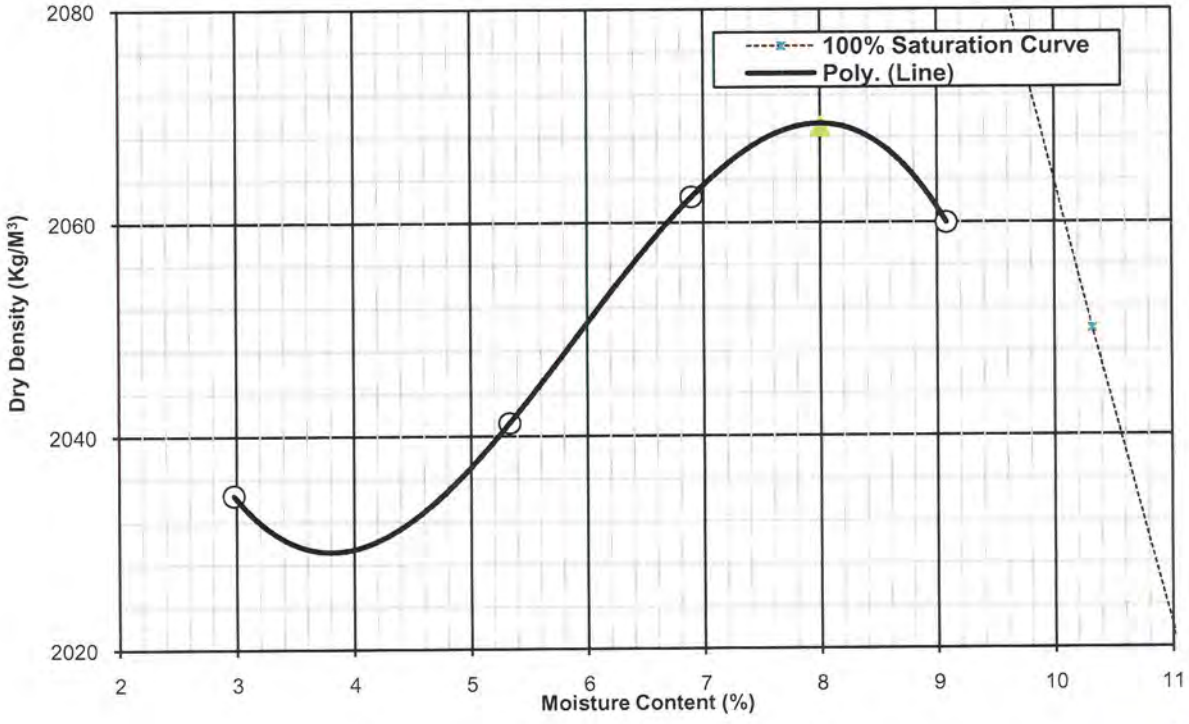
***100% Saturation Curve Data:***

| | | | |
|---|---|---|---|
| Specific Gravity: | 2.60 | value: | assumed |

Comments:

Water content of sample as received:

***Graphical Analysis - Uncorrected for Oversize Material***




Reviewed By: _____

L. Hu, M. Sc. E.

# RELATIVE DENSITY (SPECIFIC GRAVITY) AND ABSORPTION OF COARSE AGGREGATE

*ASTM C 127*

December 2, 2010
Project number: 10-1416-0029/17000

BGC Engineering Inc.
Suite 630 – 1718 Argyle Street
Halifax, NS
B3J 3N6

ATTENTION: Mr. Anthony Urquhart, P. Eng.

**PROJECT:** **Eagle Gold Project**

| | |
|---|---|
| **Sample:** | **TP-BGC10-44** |
| **Source:** | **Yukon** |

**Date sampled:** November, 2010
**Date tested:** November 24, 2010

**Sampled by:** Client
**Tested by:** DC

| Trial No. | Relative Density (dry basis) | Relative Density (SSD basis) | Apparent Relative Density | Absorption (%) |
|---|---|---|---|---|
| 1 | 2.586 | 2.628 | 2.701 | 1.65 |
| 2 | 2.571 | 2.613 | 2.684 | 1.63 |
| **AVERAGE** | **2.579** | **2.621** | **2.692** | **1.64** |

Reported by: I. Chung

Reviewed by: _____
L. Hu, M. Sc. E.

# RELATIVE DENSITY (SPECIFIC GRAVITY) AND ABSORPTION OF FINE AGGREGATE

***ASTM C 128***

December 2, 2010
Project number: 10-1416-0029/17000

BGC Engineering Inc.
Suite 630 – 1718 Argyle Street
Halifax, NS
B3J 3N6

ATTENTION: Mr. Anthony Urquhart, P. Eng.

**PROJECT:** **Eagle Gold Project**

| | |
|---|---|
| **Sample:** | **TP-BGC10-44** |
| **Source:** | **Yukon** |

**Date sampled:** November, 2010
**Date tested:** November 24, 2010

**Sampled by:** Client
**Tested by:** DC

| Trial No. | Relative Density (dry basis) | Relative Density (SSD basis) | Apparent Relative Density | Absorption (%) |
|---|---|---|---|---|
| 1 | 2.576 | 2.627 | 2.713 | 1.96 |
| 2 | 2.568 | 2.619 | 2.707 | 2.00 |
| **AVERAGE** | **2.572** | **2.623** | **2.710** | **1.98** |

Reported by: I. Chung

Reviewed by: _____
L. Hu, M. Sc. E.

Golder Associates Ltd. - Burnaby Laboratory
4280 Still Creek Drive
Burnaby,B.C. Canada V5C 6C8

# SPECIFIC GRAVITY OF SOIL SOLIDS

**Reference**
ASTM C 127-07
ASTM D 854-06 Method B

| | | | |
|---|---|---|---|
| **Project No.:** | 10-1416-0029/7000 | **Borehole** | **Borrow Material Assessment** |
| **Client:** | BGC Engineering Inc. | **Sample No.:** | S1 |
| **Project:** | Eagle Gold #0792004 | **Depth (m):** | N/A |
| **Location:** | Yukon, Canada | **Lab Sch No:** | 127 |

## Specific Gravity of Fine Fraction (ASTM D 854-06)

| Percentage Passing #4 sieve | | 100 | | |
|---|---|---|---|---|
| Test Number | | 1 | | 2 |
| Flask Number | | 1 | | 2 |
| Air Removal Method | | Vacuum | | Vacuum |
| Mass of Flask (g) | | 179.47 | | 172.65 |
| Mass of Flask + Dry Soil (g) | $M_P$ | 287.65 | | 277.93 |
| Mass of Dry Soil (g) | | 108.17 | | 105.28 |
| Mass of Flask + Soil + Water (g) | $M_{\rho ws,t}$ | 746.34 | | 738.05 |
| Test Temperature (g) | $T_t$ | 22.90 | | 22.90 |
| Mass of Flask + Water (g) | $M_{\rho w,t}$ | 677.74 | | 670.95 |
| Mass of Dish + Dry Soil (g) | | 432.58 | | 376.61 |
| Mass of Dish (g) | | 324.41 | | 271.33 |
| Mass of Oven Dry Soil (g) | $M_S$ | 108.17 | | 105.28 |
| Temperature Coefficient | $K$ | 1.00 | | 1.00 |
| Density of Solids (g/cm3) | $\rho_s$ | 2.73 | | 2.76 |
| Specific Gravity at Test Temperature | $G_t$ | 2.74 | | 2.76 |
| Specific Gravity at 20ºC | $G_{20°C}$ | 2.74 | | 2.76 |
| **AVERAGE SPECIFIC GRAVITY** | | **2.75** | | |

## Specific Gravity of Coarse Fraction (ASTM C 127-07)

| Percentage Retained on #4 sieve | | |
|---|---|---|
| Mass of Sample in Water (g) | A | |
| Mass of Sample @ SSD (g) | B | |
| Mass of Oven Dryed Sample (g) | C | |
| Bulk G (Oven Dry) | C/(B-A) | |
| Bulk G (SSD) | B/(B-A) | |
| Apparent | C/(C-A) | |
| Absorbtion (%) | (B-C)/C | |

## Combined Specific Gravity

| | | |
|---|---|---|
| COMBINED SPECIFIC GRAVITY | $G_{avg\ @20°C}$ | 2.75 |

** The test data given herein pertain to the sample provided only. This report constitutes a testing service only. Interpretation of the data can be provided upon request.*

| | | | |
|---|---|---|---|
| EB | July 20, 2010 | LP | July 21,2010 |
| TESTED BY | DATE | CHECKED BY | DATE |

**Golder Associates Ltd. - Burnaby Laboratory**
4280 Still Creek Drive
Burnaby,B.C. Canada V5C 6C8

# SPECIFIC GRAVITY OF SOIL SOLIDS

**Reference**
ASTM C 127-07
ASTM D 854-06 Method B

| | | | |
|---|---|---|---|
| **Project No.:** | 10-1416-0029/7000 | **Borehole** | **Borrow Material Assessment** |
| **Client:** | BGC Engineering Inc. | **Sample No.:** | S2 |
| **Project:** | Eagle Gold #0792004 | **Depth (m):** | N/A |
| **Location:** | Yukon, Canada | **Lab Sch No:** | 127 |

## Specific Gravity of Fine Fraction (ASTM D 854-06)

| Percentage Passing #4 sieve | | 100 | | |
|---|---|---|---|---|
| Test Number | | 1 | | 2 |
| Flask Number | | 5 | | 8 |
| Air Removal Method | | Vacuum | | Vacuum |
| Mass of Flask (g) | | 174.76 | | 174.50 |
| Mass of Flask + Dry Soil (g) | $M_P$ | 330.04 | | 328.57 |
| Mass of Dry Soil (g) | | 155.29 | | 154.08 |
| Mass of Flask + Soil + Water (g) | $M_{\rho ws,t}$ | 771.20 | | 769.87 |
| Test Temperature (g) | $T_t$ | 22.70 | | 22.70 |
| Mass of Flask + Water (g) | $M_{\rho w,t}$ | 672.81 | | 672.49 |
| Mass of Dish + Dry Soil (g) | | 402.62 | | 396.66 |
| Mass of Dish (g) | | 247.33 | | 242.58 |
| Mass of Oven Dry Soil (g) | $M_S$ | 155.29 | | 154.08 |
| Temperature Coefficient | $K$ | 1.00 | | 1.00 |
| Density of Solids (g/cm3) | $\rho_s$ | 2.73 | | 2.72 |
| Specific Gravity at Test Temperature | $G_t$ | 2.74 | | 2.72 |
| Specific Gravity at 20ºC | $G_{20°C}$ | 2.73 | | 2.72 |
| **AVERAGE SPECIFIC GRAVITY** | | **2.73** | | |

## Specific Gravity of Coarse Fraction (ASTM C 127-07)

| Percentage Retained on #4 sieve | | |
|---|---|---|
| Mass of Sample in Water (g) | A | |
| Mass of Sample @ SSD (g) | B | |
| Mass of Oven Dryed Sample (g) | C | |
| Bulk G (Oven Dry) | C/(B-A) | |
| Bulk G (SSD) | B/(B-A) | |
| Apparent | C/(C-A) | |
| Absorbtion (%) | (B-C)/C | |

## Combined Specific Gravity

| | | |
|---|---|---|
| COMBINED SPECIFIC GRAVITY | $G_{avg\ @20°C}$ | 2.73 |

** The test data given herein pertain to the sample provided only. This report constitutes a testing service only. Interpretation of the data can be provided upon request.*

| | | | |
|---|---|---|---|
| EB | July 20, 2010 | LP | July 21,2010 |
| TESTED BY | DATE | CHECKED BY | DATE |

**Golder Associates Ltd. - Burnaby Laboratory**
4280 Still Creek Drive
Burnaby,B.C. Canada V5C 6C8

# SPECIFIC GRAVITY OF SOIL SOLIDS

**Reference**
ASTM C 127-07
ASTM D 854-06 Method B

| | | | |
|---|---|---|---|
| **Project No.:** | 10-1416-0029/7000 | **Borehole** | **Borrow Material Assessment** |
| **Client:** | BGC Engineering Inc. | **Sample No.:** | S5 |
| **Project:** | Eagle Gold #0792004 | **Depth (m):** | N/A |
| **Location:** | Yukon, Canada | **Lab Sch No:** | 127 |

## Specific Gravity of Fine Fraction (ASTM D 854-06)

| Percentage Passing #4 sieve | | 5 | | |
|---|---|---|---|---|
| Test Number | | | | |
| Flask Number | | | | |
| Air Removal Method | | | | |
| Mass of Flask (g) | | | | |
| Mass of Flask + Dry Soil (g) | $M_P$ | | | |
| Mass of Dry Soil (g) | | | | |
| Mass of Flask + Soil + Water (g) | $M_{\rho ws,t}$ | | | |
| Test Temperature (g) | $T_t$ | | | |
| Mass of Flask + Water (g) | $M_{\rho w,t}$ | | | |
| Mass of Dish + Dry Soil (g) | | | | |
| Mass of Dish (g) | | | | |
| Mass of Oven Dry Soil (g) | $M_S$ | | | |
| Temperature Coefficient | $K$ | | | |
| Density of Solids (g/cm3) | $\rho_s$ | | | |
| Specific Gravity at Test Temperature | $G_t$ | | | |
| Specific Gravity at 20ºC | $G_{20ºC}$ | | | |
| **AVERAGE SPECIFIC GRAVITY** | | | | |

## Specific Gravity of Coarse Fraction (ASTM C 127-07)

| Percentage Retained on #4 sieve | | 95 |
|---|---|---|
| Mass of Sample in Water (g) | A | 1077.12 |
| Mass of Sample @ SSD (g) | B | 1749.87 |
| Mass of Oven Dryed Sample (g) | C | 1729.82 |
| Bulk G (Oven Dry) | C/(B-A) | 2.57 |
| Bulk G (SSD) | B/(B-A) | 2.60 |
| Apparent | C/(C-A) | 2.65 |
| Absorbtion (%) | (B-C)/C | 1.16 |

## Combined Specific Gravity

| | | |
|---|---|---|
| COMBINED SPECIFIC GRAVITY | $G_{avg\ @20ºC}$ | 2.65 |

** The test data given herein pertain to the sample provided only. This report constitutes a testing service only. Interpretation of the data can be provided upon request.*

| | | | |
|---|---|---|---|
| EB | July 20, 2010 | LP | July 21,2010 |
| TESTED BY | DATE | CHECKED BY | DATE |

**Golder Associates Ltd. - Burnaby Laboratory**
4280 Still Creek Drive
Burnaby,B.C. Canada V5C 6C8

# SPECIFIC GRAVITY OF SOIL SOLIDS

**Reference**
ASTM C 127-07
ASTM D 854-06 Method B

| | | | |
|---|---|---|---|
| **Project No.:** | 10-1416-0029/7000 | **Borehole** | **Borrow Material Assessment** |
| **Client:** | BGC Engineering Inc. | **Sample No.:** | S6 |
| **Project:** | Eagle Gold #0792004 | **Depth (m):** | N/A |
| **Location:** | Yukon, Canada | **Lab Sch No:** | 127 |

## Specific Gravity of Fine Fraction (ASTM D 854-06)

| Percentage Passing #4 sieve | | 53.8 | | |
|---|---|---|---|---|
| Test Number | | 1 | | 2 |
| Flask Number | | 6 | | 7 |
| Air Removal Method | | Vacuum | | Vacuum |
| Mass of Flask (g) | | 173.33 | | 171.18 |
| Mass of Flask + Dry Soil (g) | $M_P$ | 346.63 | | 347.91 |
| Mass of Dry Soil (g) | | 173.30 | | 176.71 |
| Mass of Flask + Soil + Water (g) | $M_{\rho ws,t}$ | 781.27 | | 781.14 |
| Test Temperature (g) | $T_t$ | 22.70 | | 22.70 |
| Mass of Flask + Water (g) | $M_{\rho w,t}$ | 671.12 | | 668.95 |
| Mass of Dish + Dry Soil (g) | | 369.93 | | 405.22 |
| Mass of Dish (g) | | 196.63 | | 228.51 |
| Mass of Oven Dry Soil (g) | $M_S$ | 173.30 | | 176.71 |
| Temperature Coefficient | $K$ | 1.00 | | 1.00 |
| Density of Solids (g/cm3) | $\rho_s$ | 2.74 | | 2.74 |
| Specific Gravity at Test Temperature | $G_t$ | 2.75 | | 2.75 |
| Specific Gravity at 20ºC | $G_{20°C}$ | 2.75 | | 2.74 |
| **AVERAGE SPECIFIC GRAVITY** | | **2.75** | | |

## Specific Gravity of Coarse Fraction (ASTM C 127-07)

| Percentage Retained on #4 sieve | | 46.2 |
|---|---|---|
| Mass of Sample in Water (g) | A | 605.06 |
| Mass of Sample @ SSD (g) | B | 976.24 |
| Mass of Oven Dryed Sample (g) | C | 959.2 |
| Bulk G (Oven Dry) | C/(B-A) | 2.58 |
| Bulk G (SSD) | B/(B-A) | 2.63 |
| Apparent | C/(C-A) | 2.71 |
| Absorbtion (%) | (B-C)/C | 1.78 |

## Combined Specific Gravity

| COMBINED SPECIFIC GRAVITY | $G_{avg\ @20°C}$ | 2.73 |
|---|---|---|

** The test data given herein pertain to the sample provided only. This report constitutes a testing service only. Interpretation of the data can be provided upon request.*

| EB | July 20, 2010 | LP | July 21,2010 |
|---|---|---|---|
| TESTED BY | DATE | CHECKED BY | DATE |

Golder Associates Ltd. - Burnaby Laboratory
4280 Still Creek Drive
Burnaby,B.C. Canada V5C 6C8

# SPECIFIC GRAVITY OF SOIL SOLIDS

**Reference**
ASTM C 127-07
ASTM D 854-06 Method B

| | | | |
|---|---|---|---|
| **Project No.:** | 10-1416-0029/7000 | **Borehole** | **Borrow Material Assessment** |
| **Client:** | BGC Engineering Inc. | **Sample No.:** | S7 |
| **Project:** | Eagle Gold #0792004 | **Depth (m):** | N/A |
| **Location:** | Yukon, Canada | **Lab Sch No:** | 127 |

## Specific Gravity of Fine Fraction (ASTM D 854-06)

| Percentage Passing #4 sieve | | 24.4 | | |
|---|---|---|---|---|
| Test Number | | 1 | | 2 |
| Flask Number | | 3 | | 4 |
| Air Removal Method | | Vacuum | | Vacuum |
| Mass of Flask (g) | | 173.94 | | 172.69 |
| Mass of Flask + Dry Soil (g) | $M_P$ | 360.10 | | 356.44 |
| Mass of Dry Soil (g) | | 186.14 | | 183.73 |
| Mass of Flask + Soil + Water (g) | $M_{\rho ws,t}$ | 789.73 | | 787.00 |
| Test Temperature (g) | $T_t$ | 22.60 | | 22.60 |
| Mass of Flask + Water (g) | $M_{\rho w,t}$ | 672.13 | | 670.93 |
| Mass of Dish + Dry Soil (g) | | 421.32 | | 431.20 |
| Mass of Dish (g) | | 235.18 | | 247.47 |
| Mass of Oven Dry Soil (g) | $M_S$ | 186.14 | | 183.73 |
| Temperature Coefficient | $K$ | 1.00 | | 1.00 |
| Density of Solids (g/cm3) | $\rho_s$ | 2.72 | | 2.72 |
| Specific Gravity at Test Temperature | $G_t$ | 2.72 | | 2.72 |
| Specific Gravity at 20ºC | $G_{20°C}$ | 2.72 | | 2.72 |
| **AVERAGE SPECIFIC GRAVITY** | | **2.72** | | |

## Specific Gravity of Coarse Fraction (ASTM C 127-07)

| Percentage Retained on #4 sieve | | 75.6 |
|---|---|---|
| Mass of Sample in Water (g) | A | 708.81 |
| Mass of Sample @ SSD (g) | B | 1135.27 |
| Mass of Oven Dryed Sample (g) | C | 1118.88 |
| Bulk G (Oven Dry) | C/(B-A) | 2.62 |
| Bulk G (SSD) | B/(B-A) | 2.66 |
| Apparent | C/(C-A) | 2.73 |
| Absorbtion (%) | (B-C)/C | 1.46 |

## Combined Specific Gravity

| COMBINED SPECIFIC GRAVITY | $G_{avg\ @20°C}$ | 2.73 |
|---|---|---|

** The test data given herein pertain to the sample provided only. This report constitutes a testing service only. Interpretation of the data can be provided upon request.*

| EB | July 16, 2010 | LP | July 21,2010 |
|---|---|---|---|
| TESTED BY | DATE | CHECKED BY | DATE |

**Golder Associates Ltd. - Burnaby Laboratory**
4280 Still Creek Drive
Burnaby,B.C. Canada V5C 6C8

# SPECIFIC GRAVITY OF SOIL SOLIDS

**Reference**
ASTM C 127-07
ASTM D 854-06 Method B

| | | | |
|---|---|---|---|
| **Project No.:** | 10-1416-0029/7000 | **Borehole** | **Borrow Material Assessment** |
| **Client:** | BGC Engineering Inc. | **Sample No.:** | S9 |
| **Project:** | Eagle Gold #0792004 | **Depth (m):** | N/A |
| **Location:** | Yukon, Canada | **Lab Sch No:** | 127 |

## Specific Gravity of Fine Fraction (ASTM D 854-06)

| Percentage Passing #4 sieve | | 24.4 | | |
|---|---|---|---|---|
| Test Number | | 1 | | 2 |
| Flask Number | | 6 | | 7 |
| Air Removal Method | | Vacuum | | Vacuum |
| Mass of Flask (g) | | 173.23 | | 171.11 |
| Mass of Flask + Dry Soil (g) | $M_P$ | 314.83 | | 332.54 |
| Mass of Dry Soil (g) | | 141.58 | | 161.43 |
| Mass of Flask + Soil + Water (g) | $M_{\rho ws,t}$ | 761.52 | | 771.54 |
| Test Temperature (g) | $T_t$ | 22.80 | | 22.80 |
| Mass of Flask + Water (g) | $M_{\rho w,t}$ | 671.11 | | 668.94 |
| Mass of Dish + Dry Soil (g) | | 339.27 | | 304.31 |
| Mass of Dish (g) | | 197.69 | | 142.88 |
| Mass of Oven Dry Soil (g) | $M_S$ | 141.58 | | 161.43 |
| Temperature Coefficient | $K$ | 1.00 | | 1.00 |
| Density of Solids (g/cm3) | $\rho_s$ | 2.77 | | 2.74 |
| Specific Gravity at Test Temperature | $G_t$ | 2.77 | | 2.75 |
| Specific Gravity at 20ºC | $G_{20°C}$ | 2.77 | | 2.75 |
| **AVERAGE SPECIFIC GRAVITY** | | **2.76** | | |

## Specific Gravity of Coarse Fraction (ASTM C 127-07)

| Percentage Retained on #4 sieve | | 75.6 |
|---|---|---|
| Mass of Sample in Water (g) | A | 650.36 |
| Mass of Sample @ SSD (g) | B | 1056.27 |
| Mass of Oven Dryed Sample (g) | C | 1044.1 |
| Bulk G (Oven Dry) | C/(B-A) | 2.57 |
| Bulk G (SSD) | B/(B-A) | 2.60 |
| Apparent | C/(C-A) | 2.65 |
| Absorbtion (%) | (B-C)/C | 1.17 |

## Combined Specific Gravity

| COMBINED SPECIFIC GRAVITY | $G_{avg\ @20°C}$ | 2.68 |
|---|---|---|

** The test data given herein pertain to the sample provided only. This report constitutes a testing service only. Interpretation of the data can be provided upon request.*

| EB | July 20, 2010 | LP | July 21,2010 |
|---|---|---|---|
| TESTED BY | DATE | CHECKED BY | DATE |

# MOISTURE, ASH, AND ORGANIC MATTER OF PEAT AND OTHER ORGANIC SOILS

***ASTM D 2974-07***

August 4, 2010
Project number: 10-1416-0029/7000

BGC ENGINEERING INC.
500 – 1045 Howe St.
Vancouver, BC
V6Z 2A9

ATTENTION: Mr. Luc Toussaint

**PROJECT:** Eagle Gold - 0792004

| | |
|---|---|
| **Sample:** | **S3** |
| **Source:** | **Unknown** |

**Date sampled:** Unknown
**Date tested:** July 23, 2010

**Sampled by:** Client
**Tested by:** LH/IC

**Method: C**
**Oven Temperature: --**
**Furnace Temperature: --**
**Moisture Determination: --**

| | | |
|---|---|---|
| **Moisture Content (%)** | -- | |
| **% Passing #4 (%)** | **41.8** | |
| **Trial #** | 1 | 2 |
| **Ash Content (%)** | 99.3 | 99.2 |
| **Organic Matter (%)** | 0.7 | 0.8 |
| **UCS Description** | -- | |
| **Average Organic Matter (%)** | **0.8** | |

Reported by: I. Chung

Reviewed by: _____
B. Hudson, B. Sc., GIT

*Notice:* The test data given herein pertain to the sample provided, and may not be applicable to material from other locations/depths. This report constitutes a testing service only. Interpretation of the data given here may be provided upon request.

# RELATIVE DENSITY (SPECIFIC GRAVITY) AND ABSORPTION OF COARSE AGGREGATE

***ASTM C 127***

August 5, 2010
Project number: 10-1416-0029/7000

BGC ENGINEERING INC.
500 – 1045 Howe St.
Vancouver, BC
V6Z 2A9

ATTENTION: Mr. Luc Toussaint

**PROJECT:** Eagle Gold - 0792004

| | |
|---|---|
| **Sample:** | **S3 - Coarse** |
| **Source:** | **Unknown** |

**Date sampled:** Unknown
**Date tested:** July 20, 2010

**Sampled by:** Client
**Tested by:** SJ

| Trial No. | Relative Density (dry basis) | Relative Density (SSD basis) | Apparent Relative Density | Absorption (%) |
|---|---|---|---|---|
| 1 | 2.616 | 2.648 | 2.700 | 1.19 |
| 2 | 2.598 | 2.632 | 2.691 | 1.34 |
| **AVERAGE** | **2.607** | **2.640** | **2.696** | **1.27** |

**Note:** (1) Test conducted following the procedures outlined in ASTM C 127; however, the mass of test sample did not meet the specified requirements for the associated nominal maximum grain size.

Reported by: I. Chung

Reviewed by: _____
B. Hudson, B. Sc., GIT

# RELATIVE DENSITY (SPECIFIC GRAVITY) AND ABSORPTION OF FINE AGGREGATE

***ASTM D 854***

BGC ENGINEERING INC.
500 – 1045 Howe St.
Vancouver, BC, V6Z 2A9

August 4, 2010
Project number: 10-1416-0029/7000

ATTENTION: Mr. Luc Toussaint

**PROJECT:** Eagle Gold - 0792004

| | |
|---|---|
| **Sample:** | **S3** |
| **Source:** | **Unknown** |

**Date sampled:** Unknown
**Date tested:** July 23, 2010

**Sampled by:** Client
**Tested by:** LH/IC

**Method:** B
**Percent Passing 4.75 mm:** 41.8%

**Visual Classification:** --
**Exclusions:** n/a

| **Trial #** | | **1** | **2** | **3** |
|---|---|---|---|---|
| **Mass of (g)** | **Flask** | 173.45 | 185.25 | 164.11 |
| | **Flask + Dry Soil** | 422.39 | 434.22 | 413.81 |
| | **Dry Soil** | 248.94 | 248.97 | 249.70 |
| | **Flask + Water** | 671.80 | 683.5 | 662.5 |
| | **Flask + Soil + Water** | 828.21 | 839.66 | 819.13 |
| | **Water displaced** | 92.5 | 92.8 | 93.1 |
| **Test Temperature (°C)** | | 23.0 | 23.0 | 23.0 |
| **Specific Gravity ($G_s$)** | | 2.690 | 2.683 | 2.683 |
| **Specific Gravity @ 20°C ($G_{20°C}$)** | | 2.689 | 2.681 | 2.681 |
| **Average Specific Gravity ($G_{ave}$)** | | **2.685** | | |
| **Average Specific Gravity @ 20°C ($G_{ave@20°C}$)** | | **2.683** | | |

Reported by: IC

Reviewed by: _____
B. Hudson, B. Sc., GIT

*Notice:* The test data given herein pertain to the sample provided, and may not be applicable to material from other locations/depths. This report constitutes a testing service only. Interpretation of the data given here may be provided upon request.

# SIEVE ANALYSIS OF FINE AND COARSE AGGREGATE

***ASTM C 136***

BGC Engineering Inc.
500 - 1045 Howe St.
Vancouver, BC, V6Z 2A9

August 4, 2010
Project number: 10-1416-0029/7000

ATTENTION: Mr. Luc Toussaint

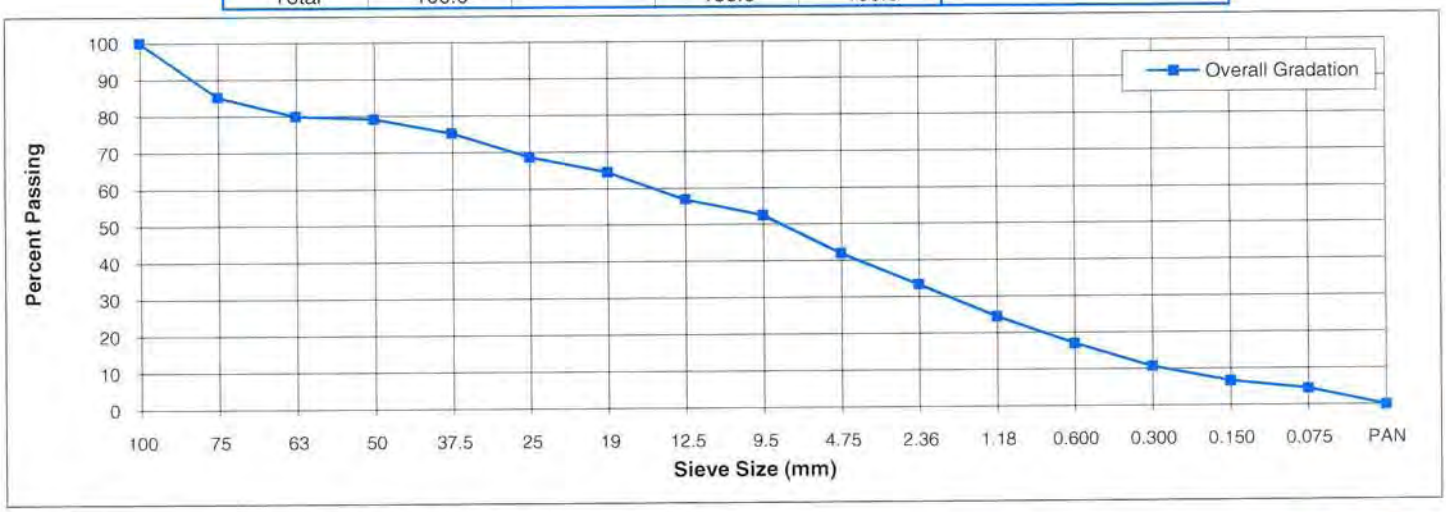
**PROJECT:** Eagle Gold - 0792004

| **Sample:** | **S3** |
|---|---|
| **Source** | **Unknown** |

**DATE SAMPLED:** Unknown
**DATE TESTED:** July 14, 2010

**SAMPLED BY:** Client
**TESTED BY:** VN

| SIEVE ANALYSIS | | | | | MATERIAL SPECIFICATION : |
|---|---|---|---|---|---|
| Sieve Size (mm) | % Retained | % Passing | Individual % Retained (Split values) | | |
| | | | + 4.75 | - 4.75 | |
| 100 | 0.0 | 100 | 0.0 | | |
| 75 | 14.8 | 85.2 | 25.4 | | |
| 63 | 5.3 | 80.0 | 9.1 | | |
| 50 | 0.8 | 79.1 | 1.4 | | |
| 37.5 | 3.9 | 75.2 | 6.8 | | |
| 25 | 6.6 | 68.6 | 11.4 | | |
| 19 | 4.2 | 64.4 | 7.2 | | |
| 12.5 | 7.5 | 56.9 | 12.9 | | |
| 9.5 | 4.5 | 52.4 | 7.8 | | |
| 4.75 | 10.5 | 41.9 | 18.0 | | |
| 2.36 | 8.6 | 33.4 | | 20.6 | |
| 1.18 | 8.9 | 24.4 | | 21.3 | |
| 0.600 | 7.4 | 17.0 | | 17.7 | |
| 0.300 | 6.3 | 10.7 | | 15.1 | |
| 0.150 | 4.1 | 6.6 | | 9.7 | |
| 0.075 | 2.2 | 4.5 | | 5.2 | |
| PAN | 4.4 | 0 | | 10.4 | |
| Total | 100.0 | | 100.0 | 100.0 | |




Remarks: Fineness Modulus of - 5 mm portion: 2.81

Reported by: I. Chung

Reviewed by: B. Hudson, B. Sc., GIT

Notice: The test data given herein pertain to the sample provided, and may not be applicable to material from other zones/depths. This report constitutes a testing service only. Interpretation of the data given here may be provided upon request.

# SOUNDNESS OF AGGREGATE BY USE OF MAGNESIUM SULFATE
## *ASTM C 88*

BGC ENGINEERING INC.
500 – 1045 Howe St.
Vancouver, BC
V6Z 2A9

August 4, 2010
Project number: 10-1416-0029/7000

ATTENTION: Mr. Luc Toussaint

**PROJECT:** Eagle Gold - 0792004

| | |
|---|---|
| **Sample:** | **S3 - Coarse** |
| **Source:** | **Unknown** |

**Date sampled:** Unknown
**Date tested:** July 23, 2010

**Sampled by:** Client
**Tested by:** LH/IC

| Sieve Fraction (mm) | Original Grading (%) | Weighted Grading (%) | Mass per fraction before test (g) | No. of particles (+19 mm only) | Loss (%) | Weighted Loss (%) |
|---|---|---|---|---|---|---|
| 90 × 75 | 25.5 | - | 2538.7 | 3 | 0.2 (1) | - |
| 75 × 63 | 9.0 | - | 1852.4 | 3 | 0.4 (1) | - |
| 63 × 50<br>50 × 37.5 | 8.2 | - | 1046.7 | 7 | 0.3 (1) | - |
| 37.5 × 25<br>25 × 19 | 18.5 | 32.3 | 1503.5 | 46 | 5.7 | 1.8 |
| 19 × 12.5<br>12.5 × 9.5 | 20.8 | 36.3 | 1001.4 | | 8.1 | 2.9 |
| 9.5 × 4.75 | 18.0 | 31.4 | 301.8 | | 12.3 | 3.9 |
| | **100.0** | **100.0** | | | **TOTAL** | **8.6** |

Notes: (1) The sample mass utilized in this size fraction does not meet specified mass requirements and the percent loss for this size fraction has been excluded from the weighted average calculation.

Reported by: I. Chung

Reviewed by: _____
B. Hudson, B. Sc., GIT

*Notice:* The test data given herein pertain to the sample provided, and may not be applicable to material from other locations/depths. This report constitutes a testing service only. Interpretation of the data given here may be provided upon request.

# SOUNDNESS OF AGGREGATE BY USE OF MAGNESIUM SULFATE

***ASTM C 88***

August 4, 2010
Project number: 10-1416-0029/7000

BGC ENGINEERING INC.
500 – 1045 Howe St.
Vancouver, BC
V6Z 2A9

ATTENTION: Mr. Luc Toussaint

**PROJECT:** Eagle Gold - 0792004

| | |
|---|---|
| **Sample:** | **S3 - Fines** |
| **Source:** | **Unknown** |

**Date sampled:** Unknown
**Date tested:** July 23, 2010

**Sampled by:** Client
**Tested by:** LH/IC

| Sieve Fraction (mm) | Original Grading % Retained | Mass before test (g) | Loss (%) | Weighted Loss (%) |
|---|---|---|---|---|
| > 4.75 | -- | -- | -- | -- |
| 4.75 - 2.36 | 20.6 | 100.0 | 17.9 | 3.7 |
| 2.36 - 1.18 | 21.3 | 100.0 | 18.4 | 3.9 |
| 1.18 - 0.600 | 17.7 | 100.0 | 17.7 | 3.1 |
| 0.600 - 0.300 | 15.1 | 100.0 | 15.1 | 2.3 |
| < 0.300 | 25.3 | -- | 0.0 | 0.0 |
| | **100.0** | | **TOTAL** | **13.0** |

Reported by: I. Chung

Reviewed by: _____
B. Hudson, B. Sc., GIT

*Notice:* The test data given herein pertain to the sample provided, and may not be applicable to material from other locations/depths. This report constitutes a testing service only. Interpretation of the data given here may be provided upon request.

# MOISTURE, ASH, AND ORGANIC MATTER OF PEAT AND OTHER ORGANIC SOILS

***ASTM D 2974-07***

August 4, 2010
Project number: 10-1416-0029/7000

BGC ENGINEERING INC.
500 – 1045 Howe St.
Vancouver, BC
V6Z 2A9

ATTENTION: Mr. Luc Toussaint

**PROJECT:** Eagle Gold - 0792004

| | |
|---|---|
| **Sample:** | **S4** |
| **Source:** | **Unknown** |

**Date sampled:** Unknown
**Date tested:** July 23, 2010

**Sampled by:** Client
**Tested by:** LH/IC

**Method: C**
**Oven Temperature: --**
**Furnace Temperature: --**
**Moisture Determination: --**

| | | |
|---|---|---|
| **Moisture Content (%)** | -- | |
| **% Passing #4 (%)** | **60.6** | |
| **Trial #** | 1 | 2 |
| **Ash Content (%)** | 98.6 | 98.7 |
| **Organic Matter (%)** | 1.4 | 1.3 |
| **UCS Description** | -- | |
| **Average Organic Matter (%)** | **1.4** | |

Reported by: I. Chung

Reviewed by: _____
B. Hudson, B. Sc., GIT

*Notice:* The test data given herein pertain to the sample provided, and may not be applicable to material from other locations/depths. This report constitutes a testing service only. Interpretation of the data given here may be provided upon request.

# RELATIVE DENSITY (SPECIFIC GRAVITY) AND ABSORPTION OF COARSE AGGREGATE

***ASTM C 127***

August 5, 2010
Project number: 10-1416-0029/7000

BGC ENGINEERING INC.
500 – 1045 Howe St.
Vancouver, BC
V6Z 2A9

ATTENTION: Mr. Luc Toussaint

**PROJECT:** Eagle Gold - 0792004

| | |
|---|---|
| **Sample:** | **S4 - Coarse** |
| **Source:** | **Unknown** |

**Date sampled:** Unknown
**Date tested:** July 20, 2010

**Sampled by:** Client
**Tested by:** SJ

| Trial No. | Relative Density (dry basis) | Relative Density (SSD basis) | Apparent Relative Density | Absorption (%) |
|---|---|---|---|---|
| 1 | 2.637 | 2.666 | 2.715 | 1.08 |
| 2 | 2.601 | 2.629 | 2.678 | 1.11 |
| **AVERAGE** | **2.619** | **2.648** | **2.697** | **1.10** |

**Note:** (1) Test conducted following the procedures outlined in ASTM C 127; however, the mass of test sample did not meet the specified requirements for the associated nominal maximum grain size.

Reported by: I. Chung

Reviewed by: _____
B. Hudson, B. Sc., GIT

# RELATIVE DENSITY (SPECIFIC GRAVITY) AND ABSORPTION OF FINE AGGREGATE

***ASTM D 854***

BGC ENGINEERING INC.
500 – 1045 Howe St.
Vancouver, BC, V6Z 2A9

August 4, 2010
Project number: 10-1416-0029/7000

ATTENTION: Mr. Luc Toussaint

**PROJECT:** Eagle Gold - 0792004

| | |
|---|---|
| **Sample:** | **S4** |
| **Source:** | **Unknown** |

**Date sampled:** Unknown
**Date tested:** July 23, 2010

**Sampled by:** Client
**Tested by:** LH/IC

**Method:** B
**Percent Passing 4.75 mm:** 60.6%

**Visual Classification:** --
**Exclusions:** n/a

| **Trial #** | | **1** | **2** | **3** |
|---|---|---|---|---|
| **Mass of (g)** | **Flask** | 171.77 | 169.97 | 174.75 |
| | **Flask + Dry Soil** | 382.24 | 380.12 | 385.96 |
| | **Dry Soil** | 210.47 | 210.15 | 211.21 |
| | **Flask + Water** | 670.30 | 668.3 | 672.9 |
| | **Flask + Soil + Water** | 802.86 | 800.62 | 806.13 |
| | **Water displaced** | 77.9 | 77.8 | 78.0 |
| **Test Temperature (°C)** | | 23.0 | 23.0 | 23.0 |
| **Specific Gravity ($G_s$)** | | 2.701 | 2.700 | 2.709 |
| **Specific Gravity @ 20°C ($G_{20°C}$)** | | 2.700 | 2.698 | 2.707 |
| **Average Specific Gravity ($G_{ave}$)** | | **2.703** | | |
| **Average Specific Gravity @ 20°C ($G_{ave@20°C}$)** | | **2.702** | | |

Reported by: IC

Reviewed by: _____
B. Hudson, B. Sc., GIT

*Notice:* The test data given herein pertain to the sample provided, and may not be applicable to material from other locations/depths. This report constitutes a testing service only. Interpretation of the data given here may be provided upon request.

# SIEVE ANALYSIS OF FINE AND COARSE AGGREGATE

***ASTM C 136***

BGC Engineering Inc.
500 - 1045 Howe St.
Vancouver, BC V6Z 2A9

August 4, 2010
Project number: 10-1416-0029/7000

ATTENTION: Mr. Luc Toussaint

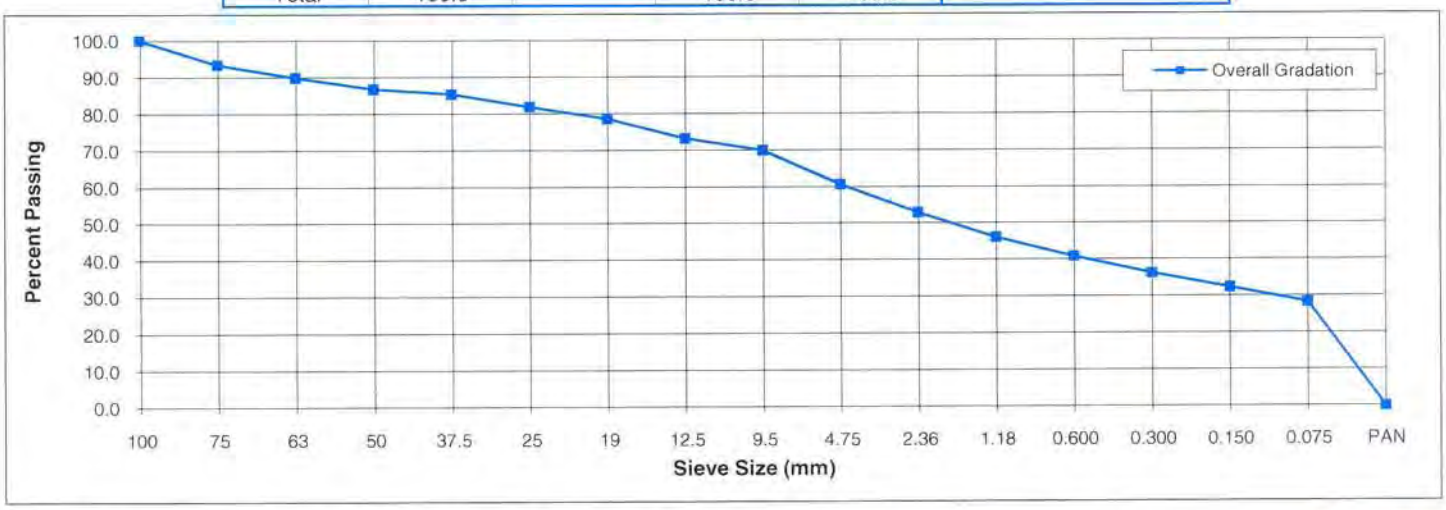
**PROJECT:** Eagle Gold - 0792004

| **Sample:** | **S4** |
|---|---|
| **Source** | **Unknown** |

**DATE SAMPLED:** Unknown
**DATE TESTED:** July 14, 2010

**SAMPLED BY:** Client
**TESTED BY:** VN

| SIEVE ANALYSIS | | | | | MATERIAL SPECIFICATION : |
|---|---|---|---|---|---|
| Sieve Size (mm) | % Retained | % Passing | Individual % Retained (Split values) | | |
| | | | + 4.75 | - 4.75 | |
| 100 | 0.0 | 100.0 | 0.0 | | |
| 75 | 6.6 | 93.4 | 16.8 | | |
| 63 | 3.5 | 89.8 | 9.0 | | |
| 50 | 3.1 | 86.7 | 7.9 | | |
| 37.5 | 1.4 | 85.3 | 3.7 | | |
| 25 | 3.5 | 81.9 | 8.8 | | |
| 19 | 3.3 | 78.6 | 8.3 | | |
| 12.5 | 5.4 | 73.2 | 13.6 | | |
| 9.5 | 3.3 | 69.9 | 8.3 | | |
| 4.75 | 9.3 | 60.6 | 23.6 | | |
| 2.36 | 7.8 | 52.8 | | 12.9 | |
| 1.18 | 6.8 | 46.1 | | 11.2 | |
| 0.600 | 5.3 | 40.8 | | 8.7 | |
| 0.300 | 4.6 | 36.2 | | 7.6 | |
| 0.150 | 3.9 | 32.3 | | 6.4 | |
| 0.075 | 4.0 | 28.3 | | 6.6 | |
| PAN | 28.2 | 0 | | 46.6 | |
| Total | 100.0 | | 100.0 | 100.0 | |




Remarks: Fineness Modulus of - 5 mm portion: 1.57

Reported by: I. Chung

Reviewed by: B. Hudson, B. Sc., GIT

Notice: The test data given herein pertain to the sample provided, and may not be applicable to material from other zones/depths. This report constitutes a testing service only. Interpretation of the data given here may be provided upon request.

# SOUNDNESS OF AGGREGATE BY USE OF MAGNESIUM SULFATE
## *ASTM C 88*

BGC ENGINEERING INC.
500 – 1045 Howe St.
Vancouver, BC
V6Z 2A9

August 4, 2010
Project number: 10-1416-0029/7000

ATTENTION: Mr. Luc Toussaint

**PROJECT:** Eagle Gold - 0792004

| | |
|---|---|
| **Sample:** | **S4 - Coarse** |
| **Source:** | **Unknown** |

**Date sampled:** Unknown
**Date tested:** July 23, 2010

**Sampled by:** Client
**Tested by:** LH/IC

| Sieve Fraction (mm) | Original Grading (%) | Weighted Grading (%) | Mass per fraction before test (g) | No. of particles (+19 mm only) | Loss (%) | Weighted Loss (%) |
|---|---|---|---|---|---|---|
| 90 × 75 | 16.8 | - | 1026.7 | 1 | 0.0 (1) | - |
| 75 × 63 | 9.0 | - | 543.5 | 1 | 0.0 (1) | - |
| 63 × 50<br>50 × 37.5 | 11.4 | - | 696.6 | 4 | 17.3 (1,2) | - |
| 37.5 × 25<br>25 × 19 | 17.2 | - | 1026.5 | 43 | 0.8 (1) | - |
| 19 × 12.5<br>12.5 × 9.5 | 22.0 | 48.2 | 1002.5 | | 8.5 | 4.1 |
| 9.5 × 4.75 | 23.6 | 51.8 | 300.0 | | 12.3 | 6.4 |
| | **100.0** | **100.0** | | | **TOTAL** | **10.5** |

Notes: (1) The sample mass utilized in this size fraction does not meet specified mass requirements and the percent loss for this size fraction has been excluded from the weighted average calculation.
(2) High loss percent is due to one single particle disintegrating during cycles.

Reported by: I. Chung

Reviewed by: _____
B. Hudson, B. Sc., GIT

*Notice:* The test data given herein pertain to the sample provided, and may not be applicable to material from other locations/depths. This report constitutes a testing service only. Interpretation of the data given here may be provided upon request.

# SOUNDNESS OF AGGREGATE BY USE OF MAGNESIUM SULFATE

***ASTM C 88***

August 4, 2010
Project number: 10-1416-0029/7000

BGC ENGINEERING INC.
500 – 1045 Howe St.
Vancouver, BC
V6Z 2A9

ATTENTION: Mr. Luc Toussaint

**PROJECT:** Eagle Gold - 0792004

| | |
|---|---|
| **Sample:** | **S4 - Fines** |
| **Source:** | **Unknown** |

**Date sampled:** Unknown
**Date tested:** July 23, 2010

**Sampled by:** Client
**Tested by:** LH/IC

| Sieve Fraction (mm) | Original Grading % Retained | Mass before test (g) | Loss (%) | Weighted Loss (%) |
|---|---|---|---|---|
| > 4.75 | -- | -- | -- | -- |
| 4.75 - 2.36 | 12.9 | 100.0 | 23.8 | 3.1 |
| 2.36 - 1.18 | 11.2 | 100.0 | 18.2 | 2.0 |
| 1.18 - 0.600 | 8.7 | 100.0 | 19.7 | 1.7 |
| 0.600 - 0.300 | 7.6 | 100.0 | 18.7 | 1.4 |
| < 0.300 | 59.6 | -- | 0.0 | -- |
| | **100.0** | | **TOTAL** | **8.2** |

Reported by: I. Chung

Reviewed by: _____
B. Hudson, B. Sc., GIT

*Notice:* The test data given herein pertain to the sample provided, and may not be applicable to material from other locations/depths. This report constitutes a testing service only. Interpretation of the data given here may be provided upon request.

# MOISTURE, ASH, AND ORGANIC MATTER OF PEAT AND OTHER ORGANIC SOILS

***ASTM D 2974-07***

August 4, 2010
Project number: 10-1416-0029/7000

BGC ENGINEERING INC.
500 – 1045 Howe St.
Vancouver, BC
V6Z 2A9

ATTENTION: Mr. Luc Toussaint

**PROJECT:** Eagle Gold - 0792004

| | |
|---|---|
| **Sample:** | **S8** |
| **Source:** | **Unknown** |

**Date sampled:** Unknown
**Date tested:** July 23, 2010

**Sampled by:** Client
**Tested by:** LH/IC

**Method: C**
**Oven Temperature: --**
**Furnace Temperature: --**
**Moisture Determination: --**

| | | |
|---|---|---|
| **Moisture Content (%)** | -- | |
| **% Passing #4 (%)** | **27.0** | |
| **Trial #** | 1 | 2 |
| **Ash Content (%)** | 99.3 | 99.3 |
| **Organic Matter (%)** | 0.7 | 0.7 |
| **UCS Description** | -- | |
| **Average Organic Matter (%)** | **0.7** | |

Reported by: I. Chung

Reviewed by: _____
B. Hudson, B. Sc., GIT

*Notice:* The test data given herein pertain to the sample provided, and may not be applicable to material from other locations/depths. This report constitutes a testing service only. Interpretation of the data given here may be provided upon request.

# RELATIVE DENSITY (SPECIFIC GRAVITY) AND ABSORPTION OF COARSE AGGREGATE

***ASTM C 127***

August 5, 2010
Project number: 10-1416-0029/7000

BGC ENGINEERING INC.
500 – 1045 Howe St.
Vancouver, BC
V6Z 2A9

ATTENTION: Mr. Luc Toussaint

**PROJECT:** Eagle Gold - 0792004

| | |
|---|---|
| **Sample:** | **S8 - Coarse** |
| **Source:** | **Unknown** |

**Date sampled:** Unknown
**Date tested:** July 20, 2010

**Sampled by:** Client
**Tested by:** SJ

| Trial No. | Relative Density (dry basis) | Relative Density (SSD basis) | Apparent Relative Density | Absorption (%) |
|---|---|---|---|---|
| 1 | 2.579 | 2.616 | 2.678 | 1.42 |
| 2 | 2.617 | 2.652 | 2.713 | 1.36 |
| **AVERAGE** | **2.598** | **2.634** | **2.696** | **1.39** |

**Note:** (1) Test conducted following the procedures outlined in ASTM C 127; however, the mass of test sample did not meet the specified requirements for the associated nominal maximum grain size.

Reported by: I. Chung

Reviewed by: _____
B. Hudson, B. Sc., GIT

# RELATIVE DENSITY (SPECIFIC GRAVITY) AND ABSORPTION OF FINE AGGREGATE

***ASTM D 854***

BGC ENGINEERING INC.
500 – 1045 Howe St.
Vancouver, BC, V6Z 2A9

August 4, 2010
Project number: 10-1416-0029/7000

ATTENTION: Mr. Luc Toussaint

**PROJECT:** Eagle Gold - 0792004

| | |
|---|---|
| **Sample:** | **S8** |
| **Source:** | **Unknown** |

**Date sampled:** Unknown
**Date tested:** July 23, 2010

**Sampled by:** Client
**Tested by:** LH/IC

**Method:** B
**Percent Passing 4.75 mm:** 27.0%

**Visual Classification:** --
**Exclusions:** n/a

| **Trial #** | | 1 | 2 | 3 |
|---|---|---|---|---|
| **Mass of (g)** | **Flask** | 173.25 | 171.09 | 173.54 |
| | **Flask + Dry Soil** | 415.31 | 411.25 | 416.14 |
| | **Dry Soil** | 242.06 | 240.16 | 242.60 |
| | **Flask + Water** | 672.10 | 670.0 | 671.9 |
| | **Flask + Soil + Water** | 822.75 | 819.31 | 823.60 |
| | **Water displaced** | 91.4 | 90.9 | 90.9 |
| **Test Temperature (°C)** | | 23.0 | 23.0 | 23.0 |
| **Specific Gravity ($G_s$)** | | 2.648 | 2.643 | 2.669 |
| **Specific Gravity @ 20°C ($G_{20°C}$)** | | 2.646 | 2.642 | 2.667 |
| **Average Specific Gravity ($G_{ave}$)** | | **2.653** | | |
| **Average Specific Gravity @ 20°C ($G_{ave@20°C}$)** | | **2.652** | | |

Reported by: IC

Reviewed by: _____
B. Hudson, B. Sc., GIT

*Notice:* The test data given herein pertain to the sample provided, and may not be applicable to material from other locations/depths. This report constitutes a testing service only. Interpretation of the data given here may be provided upon request.

# SIEVE ANALYSIS OF FINE AND COARSE AGGREGATE

***ASTM C 136***

BGC Engineering Inc.
500 - 1045 Howe St.
Vancouver, BC, V6Z 2A9

August 4, 2010
Project number: 10-1416-0029/7000

ATTENTION: Mr. Luc Toussaint

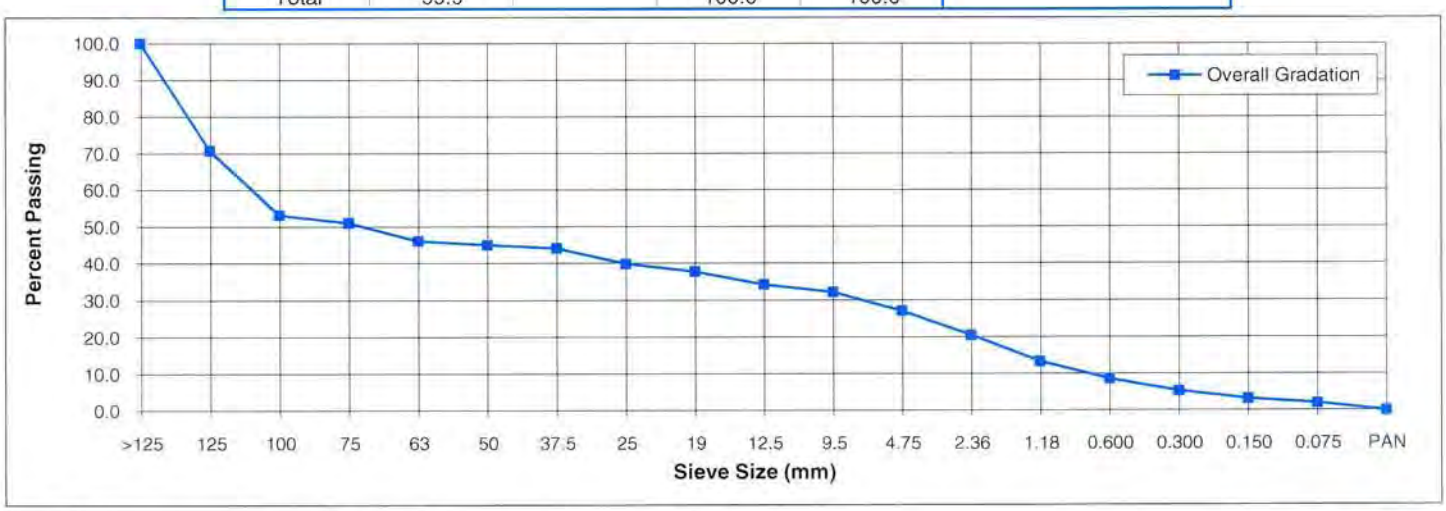
**PROJECT:** Eagle Gold - 0792004

| **Sample:** | **S8** |
|---|---|
| **Source** | **Unknown** |

**DATE SAMPLED:** Unknown
**DATE TESTED:** July 14, 2010

**SAMPLED BY:** Client
**TESTED BY:** VN

| SIEVE ANALYSIS | | | | | MATERIAL SPECIFICATION : |
|---|---|---|---|---|---|
| Sieve Size (mm) | % Retained | % Passing | Individual % Retained (Split values) | | |
| | | | + 4.75 | - 4.75 | |
| >125 | 0.0 | 100.0 | 0.0 | | |
| 125 | 29.2 | 70.8 | 40.0 | | |
| 100 | 17.7 | 53.1 | 24.3 | | |
| 75 | 2.1 | 51.0 | 2.9 | | |
| 63 | 5.0 | 46.1 | 6.8 | | |
| 50 | 1.1 | 45.0 | 1.5 | | |
| 37.5 | 0.9 | 44.1 | 1.2 | | |
| 25 | 4.3 | 39.8 | 5.8 | | |
| 19 | 2.1 | 37.7 | 2.9 | | |
| 12.5 | 3.5 | 34.2 | 4.8 | | |
| 9.5 | 2.1 | 32.1 | 2.8 | | |
| 4.75 | 5.1 | 27.1 | 7.0 | | |
| 2.36 | 6.6 | 20.5 | | 24.4 | |
| 1.18 | 7.1 | 13.4 | | 26.5 | |
| 0.600 | 4.7 | 8.6 | | 17.5 | |
| 0.300 | 3.3 | 5.3 | | 12.3 | |
| 0.150 | 2.1 | 3.2 | | 7.8 | |
| 0.075 | 1.2 | 2.0 | | 4.6 | |
| PAN | 1.9 | 0 | | 6.9 | |
| Total | 99.9 | | 100.0 | 100.0 | |




Remarks: Fineness Modulus of - 5 mm portion: 3.13

Reported by: I. Chung

Reviewed by: B. Hudson, B. Sc., GIT

# SOUNDNESS OF AGGREGATE BY USE OF MAGNESIUM SULFATE
***ASTM C 88***

BGC ENGINEERING INC.
500 – 1045 Howe St.
Vancouver, BC, V6Z 2A9

August 4, 2010
Project number: 10-1416-0029/7000

ATTENTION: Mr. Luc Toussaint

**PROJECT:** Eagle Gold - 0792004

| | |
|---|---|
| **Sample:** | **S8 - Coarse** |
| **Source:** | **Unknown** |

**Date sampled:** Unknown
**Date tested:** July 23, 2010

**Sampled by:** Client
**Tested by:** LH/IC

| Sieve Fraction (mm) | Original Grading (%) | Weighted Grading (%) | Mass per fraction before test (g) | No. of particles (+19 mm only) | Loss (%) | Weighted Loss (%) |
|---|---|---|---|---|---|---|
| > 90 | 64.3 | - | - | - | 1.0 (1,2) | - |
| 90 x 75 | 2.9 | - | 1799.8 | 2 | 1.0 (1) | - |
| 75 x 63 | 6.8 | - | 1979.2 | 3 | 7.7 (1) | - |
| 63 x 50<br>50 x 37.5 | 2.7 | - | 550.5 | 2 | 0.0 (1) | - |
| 37.5 x 25<br>25 x 19 | 8.7 | 37.3 | 1503.3 | - | 6.4 | 2.4 |
| 19 x 12.5<br>12.5 x 9.5 | 7.6 | 32.6 | 1002.0 | | 12.3 | 4.0 |
| 9.5 x 4.75 | 7.0 | 30.0 | 300.4 | | 15.6 | 4.7 |
| | **100.0** | **100.0** | | | **TOTAL** | **11.1** |

Notes: (1) The sample mass utilized in this size fraction does not meet specified mass requirements and the percent loss for this size fraction has been excluded from the weighted average calculation.
(2) Percent loss assumed to be the same as next largest size fraction.

Reported by: I. Chung

Reviewed by: _____
B. Hudson, B. Sc., GIT

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# SOUNDNESS OF AGGREGATE BY USE OF MAGNESIUM SULFATE

***ASTM C 88***

August 4, 2010
Project number: 10-1416-0029/7000

BGC ENGINEERING INC.
500 – 1045 Howe St.
Vancouver, BC
V6Z 2A9

ATTENTION: Mr. Luc Toussaint

**PROJECT:** Eagle Gold - 0792004

| | |
|---|---|
| **Sample:** | **S8 - Fines** |
| **Source:** | **Unknown** |

**Date sampled:** Unknown
**Date tested:** July 23, 2010

**Sampled by:** Client
**Tested by:** LH/IC

| Sieve Fraction (mm) | Original Grading % Retained | Mass before test (g) | Loss (%) | Weighted Loss (%) |
|---|---|---|---|---|
| > 4.75 | -- | -- | -- | -- |
| 4.75 - 2.36 | 24.4 | 100.0 | 32.2 | 7.9 |
| 2.36 - 1.18 | 26.5 | 100.0 | 22.6 | 6.0 |
| 1.18 - 0.600 | 17.5 | 100.0 | 20.7 | 3.6 |
| 0.600 - 0.300 | 12.3 | 100.0 | 20.1 | 2.5 |
| < 0.300 | 19.3 | -- | 0.0 | 0.0 |
| | **100.0** | | **TOTAL** | **20.0** |

Reported by: I. Chung

Reviewed by: _____
B. Hudson, B. Sc., GIT

*Notice:* The test data given herein pertain to the sample provided, and may not be applicable to material from other locations/depths. This report constitutes a testing service only. Interpretation of the data given here may be provided upon request.

# SIEVE ANALYSIS OF FINE AND COARSE AGGREGATE

*CSA A23.2-2A*

BGC Engineering Inc.
Suite 630 - 1718 Argyle Street
Halifax, NS
B3J 3N6

December 2, 2010
Project number: 10-1416-0029/17000

ATTENTION: Mr. Anthony Urquhart, P. Eng.

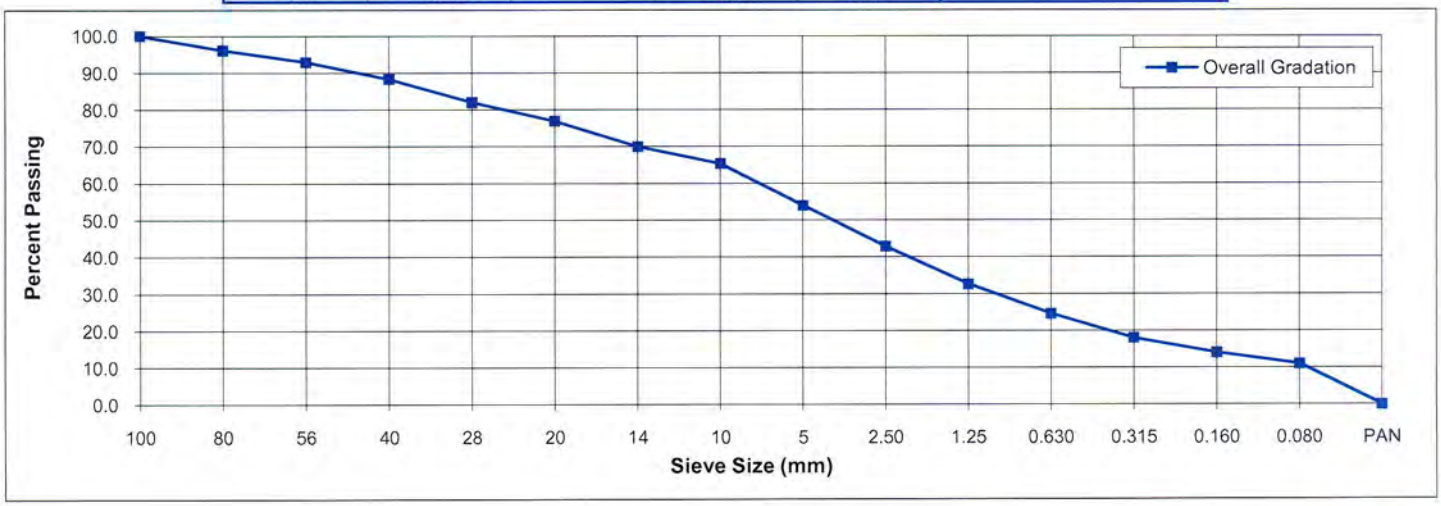
**PROJECT:** Eagle Gold Project

| **Sample:** | **TP-BGC10-46** |
|---|---|
| **Source** | **Yukon** |

**DATE SAMPLED:** November, 2010
**DATE TESTED:** November 23, 2010

**SAMPLED BY:** Client
**TESTED BY:** VN/DC

| SIEVE ANALYSIS | | | | | MATERIAL SPECIFICATION : |
|---|---|---|---|---|---|
| Sieve Size (mm) | % Retained | % Passing | Individual % Retained (Split values) | | |
| | | | + 5 | - 5 | |
| 100 | 0.0 | 100.0 | 0.0 | | |
| 80 | 3.9 | 96.1 | 8.5 | | |
| 56 | 3.2 | 92.9 | 7.0 | | |
| 40 | 4.6 | 88.3 | 9.9 | | |
| 28 | 6.3 | 82.0 | 13.7 | | |
| 20 | 5.1 | 76.9 | 11.1 | | |
| 14 | 6.9 | 69.9 | 15.1 | | |
| 10 | 4.6 | 65.3 | 10.0 | | |
| 5 | 11.4 | 53.9 | 24.8 | | |
| 2.50 | 11.1 | 42.8 | | 20.6 | |
| 1.25 | 10.2 | 32.6 | | 18.9 | |
| 0.630 | 8.0 | 24.6 | | 14.9 | |
| 0.315 | 6.6 | 18.0 | | 12.2 | |
| 0.160 | 4.0 | 14.1 | | 7.4 | |
| 0.080 | 3.1 | 11.0 | | 5.7 | |
| PAN | 11.0 | 0 | | 20.4 | |
| Total | 100.0 | | 100.0 | 100.0 | |




Reported by: I. Chung

Reviewed by: _____
L. Hu, M. Sc. E.

Notice: The test data given herein pertain to the sample provided, and may not be applicable to material from other zones/depths. This report constitutes a testing service only. Interpretation of the data given here may be provided upon request.

# CLAY LUMPS IN NATURAL AGGREGATE

*CSA A23.2 –3A*

December 2, 2010
Project number: 10-1416-0029/17000

BGC Engineering Inc.
Suite 630 – 1718 Argyle Street
Halifax, NS
B3J 3N6

ATTENTION: Mr. Anthony Urquhart, P. Eng.

**PROJECT:** **Eagle Gold Project**

| | |
|---|---|
| **Sample:** | **TP-BGC10-46** |
| **Source:** | **Yukon** |

**Date sampled:** November, 2010 **Sampled by:** Client
**Date tested:** November 29, 2010 **Tested by:** DC

| Size Fraction (mm) | Mass of Sample (g) | Loss (%) | Original Gradation (%) | Clay Lumps (%) |
|---|---|---|---|---|
| > 37.5 | 6314.0 | 0.0 | 25.3 | 0.0 |
| 37.5 x 19 | 3009.2 | 0.0 | 24.8 | 0.0 |
| 19.5 x 9.5 | 2001.1 | 0.0 | 25.1 | 0.0 |
| 9.5 x 4.75 | 1000.2 | 0.0 | 24.8 | 0.0 |
| **Percentage Clay Lumps (weighted average)** | | | | **0.0** |

Reported by: I. Chung

Reviewed by: _____
L. Hu, M. Sc. E.

*Notice:* The test data given herein pertain to the sample provided, and may not be applicable to material from other production zones/periods. This report constitutes a testing service only. Interpretation of the data given here may be provided upon request.

# LOW-DENSITY GRANULAR MATERIAL IN AGGREGATE

*CSA A23.2 - 4A*

December 2, 2010
Project number: 10-1416-0029/17000

BGC Engineering Inc.
Suite 630 – 1718 Argyle Street
Halifax, NS
B3J 3N6

ATTENTION: Mr. Anthony Urquhart, P. Eng.

**PROJECT:** **Eagle Gold Project**

| | |
|---|---|
| **Sample:** | **TP-BGC10-46** |
| **Source:** | **Yukon** |

**Date sampled:** November, 2010
**Date tested:** December 2, 2010

**Sampled by:** Client
**Tested by:** DC

| | |
|---|---|
| **Mass of dry sample (g)** | 2067.1 |
| **Mass of decanted particles, dry (g)** | 0.0 |
| **Solution used** | Zinc Chloride, S.G - 2.01 |
| **Content of Low Density Particles (% by mass)** | **0.0** |

Reported by: I. Chung

Reviewed by: _____
L. Hu, M. Sc. E.

*Notice:* The test data given herein pertain to the sample provided, and may not be applicable to material from other production zones/periods. This report constitutes a testing service only. Interpretation of the data given here may be provided upon request.

# ORGANIC IMPURITIES IN FINE AGGREGATES FOR CONCRETE

*CSA A23.2 - 7A*

December 2, 2010
Project number: 10-1416-0029/17000

BGC Engineering Inc.
Suite 630 – 1718 Argyle Street
Halifax, NS
B3J 3N6

ATTENTION: Mr. Anthony Urquhart, P. Eng.

**PROJECT:** **Eagle Gold Project**

| | |
|---|---|
| **Sample:** | **TP-BGC10-46** |
| **Source:** | **Yukon** |

**Date sampled:** November, 2010
**Date tested:** November 29, 2010

**Sampled by:** Client
**Tested by:** DC

| | |
|---|---|
| **COLOR PLATE VALUE** | **2** |

Reported by: I. Chung

Reviewed by: _____
L. Hu, M. Sc. E.

*Notice:* The test data given herein pertain to the sample provided, and may not be applicable to material from other production zones/periods. This report constitutes a testing service only. Interpretation of the data given here may be provided upon request.

# BULK DENSITY OF AGGREGATE

*CSA A23.2 –10A*

December 2, 2010
Project number: 10-1416-0029/17000

BGC Engineering Inc.
Suite 630 – 1718 Argyle Street
Halifax, NS
B3J 3N6

ATTENTION: Mr. Anthony Urquhart, P. Eng.

**PROJECT:** **Eagle Gold Project**

| | |
|---|---|
| **Sample:** | **TP-BGC10-46 - Combined Coarse & Fine** |
| **Source:** | **Yukon** |

**Date sampled:** November, 2010 **Sampled by:** Client
**Date tested:** November 24, 2010 **Tested by:** VN/IC

| Trial | Bulk Density (kg/m$^3$), Jigging Procedure Compacted |
|---|---|
| #1 | 2061 |
| #2 | 2120 |
| **AVERAGE** | **2091** |

**Note:** 1. Moisture condition used: Oven dry

Reported by: I. Chung

Reviewed by: _____
L. Hu, M. Sc. E.

# RESISTANCE TO DEGRADATION OF SMALL-SIZE COARSE AGGREGATE BY ABRASION AND IMPACT IN THE LOS ANGELES MACHINE

*CSA A23.2 –16A*

December 2, 2010
Project number: 10-1416-0029/17000

BGC Engineering Inc.
Suite 630 – 1718 Argyle Street
Halifax, NS
B3J 3N6

ATTENTION: Mr. Anthony Urquhart, P. Eng.

**PROJECT:** **Eagle Gold Project**

| | |
|---|---|
| **Sample:** | **TP-BGC10-46** |
| **Source:** | **Yukon** |

**Date sampled:** November, 2010
**Date tested:** December 1, 2010

**Sampled by:** Client
**Tested by:** DC

| | | | |
|---|---|---|---|
| Grading used | B | Number of revolution | 500 |
| Number of spheres | 11 | Mass of spheres, g | 4561.5 |
| Mass before abrasion, g | 5002.0 | 19 x 12.5mm | 2500.9 |
| | | 12.5 x 9.5mm | 2501.1 |
| Mass after abrasion, g | 3555.1 | Sieve size to determine loss | 1.80mm |
| **Loss after 500 revolutions (%)** | | **28.9** | |

Reported by: I. Chung

Reviewed by: _____
L. Hu, M. Sc. E

*Notice:* The test data given herein pertain to the sample provided, and may not be applicable to material from other production zones/periods. This report constitutes a testing service only. Interpretation of the data given here may be provided upon request.

# RELATIVE DENSITY AND ABSORPTION OF COARSE AGGREGATE

*CSA A23.2 –12A*

December 2, 2010
Project number: 10-1416-0029/17000

BGC Engineering Inc.
Suite 630 – 1718 Argyle Street
Halifax, NS
B3J 3N6

ATTENTION: Mr. Anthony Urquhart, P. Eng.

**PROJECT:** **Eagle Gold Project**

| | |
|---|---|
| **Sample:** | **TP-BGC10-46, Coarse** |
| **Source:** | **Yukon** |

**Date sampled:** November, 2010
**Date tested:** November 24, 2010

**Sampled by:** Client
**Tested by:** DC

| Trial No. | Relative Density (dry basis) | Relative Density (SSD basis) | Apparent Relative Density | Absorption (%) |
|---|---|---|---|---|
| 1 | 2.602 | 2.633 | 2.686 | 1.20 |
| 2 | 2.595 | 2.625 | 2.676 | 1.16 |
| **AVERAGE** | **2.599** | **2.629** | **2.681** | **1.18** |

Reported by: I. Chung

Reviewed by: _____
L. Hu, M. Sc. E.

*Notice:* The test data given herein pertain to the sample provided, and may not be applicable to material from other production zones/periods. This report constitutes a testing service only. Interpretation of the data given here may be provided upon request.

# RELATIVE DENSITY AND ABSORPTION OFFINE AGGREGATE

***CSA A23.2 –6A***

December 2, 2010
Project number: 10-1416-0029/17000

BGC Engineering Inc.
Suite 630 – 1718 Argyle Street
Halifax, NS
B3J 3N6

ATTENTION: Mr. Anthony Urquhart, P. Eng.

**PROJECT:** **Eagle Gold Project**

| | |
|---|---|
| **Sample:** | **TP-BGC10-46, Fine** |
| **Source:** | **Yukon** |

**Date sampled:** November, 2010
**Date tested:** November 24, 2010

**Sampled by:** Client
**Tested by:** DC

| Trial No. | Relative Density (dry basis) | Relative Density (SSD basis) | Apparent Relative Density | Absorption (%) |
|---|---|---|---|---|
| 1 | 2.455 | 2.535 | 2.669 | 3.26 |
| 2 | 2.447 | 2.528 | 2.663 | 3.30 |
| **AVERAGE** | **2.451** | **2.532** | **2.666** | **3.28** |

Reported by: I. Chung

Reviewed by: _____
L. Hu, M. Sc. E.

# RESISTANCE OF FINE AGGREGATE TO DEGRADATION BY ABRASION IN THE MICRO-DEVAL APPARATUS

*CSA A23.2 –23A*

December 2, 2010
Project number: 10-1416-0029/17000

BGC Engineering Inc.
Suite 630 – 1718 Argyle Street
Halifax, NS
B3J 3N6

ATTENTION: Mr. Anthony Urquhart, P. Eng.

**PROJECT:** **Eagle Gold Project**

| | |
|---|---|
| **Sample:** | **TP-BGC10-46, Fine** |
| **Source:** | **Yukon** |

**Date sampled:** November, 2010
**Date tested:** November 26, 2010

**Sampled by:** Client
**Tested by:** DC

| | |
|---|---|
| **Grading** | Fines |
| **Loss at conclusion of test (%)** | **16.0** |

| **Validation Test Data: Control Aggregate (James Dick sand)** | |
|---|---|
| **Test date** | November 26, 2010 |
| **Percent loss** | 19.6% |

Reported by: I. Chung

Reviewed by: _____
L. Hu, M. Sc. E.

*Notice:* The test data given herein pertain to the sample provided, and may not be applicable to material from other production zones/periods. This report constitutes a testing service only. Interpretation of the data given here may be provided upon request.

# RESISTANCE OF COARSE AGGREGATE TO DEGRADATION BY ABRASION IN THE MICRO-DEVAL APPARATUS

*CSA A23.2 –29A*

December 2, 2010
Project number: 10-1416-0029/17000

BGC Engineering Inc.
Suite 630 – 1718 Argyle Street
Halifax, NS
B3J 3N6

ATTENTION: Mr. Anthony Urquhart, P. Eng.

**PROJECT:** **Eagle Gold Project**

| | |
|---|---|
| **Sample:** | **TP-BGC10-46, Coarse** |
| **Source:** | **Yukon** |

**Date sampled:** November, 2010
**Date tested:** November 26, 2010

**Sampled by:** Client
**Tested by:** DC

| | |
|---|---|
| **Grading** | Section 8.2 |
| **Loss at conclusion of test (%)** | **14.3** |

| **Validation Test Data: Control Aggregate (Brechin stone)** | |
|---|---|
| **Test date** | November 26, 2010 |
| **Percent loss** | 17.5% |

Reported by: I. Chung

Reviewed by: _____
L. Hu, M. Sc. E.

*Notice:* The test data given herein pertain to the sample provided, and may not be applicable to material from other production zones/periods. This report constitutes a testing service only. Interpretation of the data given here may be provided upon request.

# DETERMINATION OF TOTAL OR WATER-SOLUBLE SULPHATE ION CONTENT OF SOIL

***CSA A23.2-3B***

December 02, 2010

Project Number: 10-1416-0029-17000
Work Order #: WC00244

BGC Engineering Inc.
Suite 630 – 1718 Argyle Street
Halifax, NS
B3J 3N6

ATTENTION: Mr. Anthony Urquhart, P. Eng.

**PROJECT:** Eagle Gold Project - 0792004, Yukon, BC

| **Sample:** | **TP-BGC10-46** |
|---|---|
| **Source:** | **Yukon** |

**Date sampled:** November, 2010
**Date tested:** November 29, 2010

**Sampled by:** Client
**Tested by:** DC

| Lab Reference # | Sample ID | Date Sampled | Total Sulphate Ion Content % | Water-Soluble Sulphate Ion Content % |
|---|---|---|---|---|
| WC00244-1 | TP BGC 10-46 | November 2010 | 0.02 | Not Applicable * |

Note:
1. * Per Clause 5.1.4, the water-soluble sulphate ion content need not be tested when the total sulphate ion content is less than 0.20%
2. Detection limit for the test is 0.005%

Repoted By: Siny John, AScT

Reviewed By: _____
L. Hu, M. Sc. E

*Notice:* The test data given herein pertain to the samples provided. This report constitutes a testing service only. Interpretation of the data given here may be provided upon request.

# PETROGRAPHIC EXAMINATION OF FINE AGGREGATE

***CSA A23.2-15A / ASTM C 295***

BGC Engineering Ltd.
Suite 630 - 1718 Argyle Street
Halifax, NS
B3J 3N6

January 12, 2011
Project Number: 10-1416-0029.17000

ATTENTION: Mr. Anthony Urquhart, P.Eng

| Sample | TP BGC10-46 |
|---|---|

**Date Received:** November 2010 **Sampled by:** Client

| ROCK/MINERAL TYPE | PERCENT BY COUNT BY SIEVE SIZE (mm) | | | | | | WEIGHTED TOTAL |
|---|---|---|---|---|---|---|---|
| | 2.5 | 1.25 | 0.630 | 0.315 | 0.160 | 0.080 | |
| Granite | 6.5 | 12.2 | 3.0 | 0.0 | 0.0 | 0.0 | 5.2 |
| Quartzite | 11.1 | 8.9 | 12.0 | 13.7 | 7.2 | 2.3 | 10.2 |
| Quartz-mica schist | 49.5 | 46.2 | 36.8 | 20.2 | 9.2 | 3.6 | 34.8 |
| Mica schist | 3.0 | 3.6 | 5.3 | 7.2 | 2.0 | 1.3 | 4.0 |
| Andalusite-mica schist | 0.7 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 |
| Phyllite | 9.2 | 7.9 | 5.6 | 2.3 | 2.0 | 0.0 | 5.8 |
| Gneiss | 2.3 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 |
| Sandstone | 2.0 | 1.0 | 0.3 | 0.0 | 0.0 | 0.0 | 0.8 |
| Amphibolite | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 |
| Quartz | 14.4 | 14.9 | 32.1 | 45.4 | 60.5 | 72.1 | 30.9 |
| Feldspar | 0.0 | 0.3 | 2.3 | 2.3 | 3.0 | 1.6 | 1.3 |
| Andalusite | 0.0 | 0.3 | 0.3 | 0.3 | 0.7 | 1.3 | 0.3 |
| Amphibole | 0.0 | 0.0 | 0.0 | 0.7 | 0.0 | 1.3 | 0.2 |
| Biotite, muscovite | 0.0 | 0.0 | 0.3 | 4.6 | 11.5 | 12.9 | 2.7 |
| Oxidized particles, weak/unidentifiable | 0.3 | 3.3 | 2.0 | 3.3 | 3.9 | 3.6 | 2.4 |
| Encrusted particles | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 |
| **TOTALS** | **100.0** | **100.0** | **100.0** | **100.0** | **100.0** | **100.0** | **100.0** |

Note: 1. All identifications done using a binocular microscope, and standard physical index tests. No thin-sections were used.

PETROGRAPHER: _____
A. Briggs, M. Sc., GIT

## TP BGC10-46, Fine portion

The sample consisted of natural sand. A representative portion of the sample was split and quartered and then sieved into individual sieve fractions to prepare the sample for examination.

The particle morphology was subangular to angular, and particle geometry was cubical, irregular with many particles trending towards flat and elongated shapes.

Staining as a result of oxidation of ferromagnesian silicate minerals was commonly observed on many of the particles.

*Geology/Mineralogy*

Detailed information on the mineralogic and lithologic composition of the various grain size fractions is presented in the table above and summarized below. Identification of rock types and minerals was done using a stereomicroscope with magnifications from 8x to 50x, supplemented by basic geologic diagnostic methods. Thin section analyses to assist in rock type and mineralogical identifications were not undertaken, but no chemical analyses were performed.

The sample was composed of metamorphic rocks with some plutonic rock and minor clastic sedimentary rock types. Single mineral grains, primarily quartz, dominated the finer fractions, being the breakdown product of the various rock types present.

The dominant rock type was schist, which was further subdivided, on the basis of the dominant mineralogy, into quartzite, quartz-mica schist, andalusite-mica schist and mica schist.

Quartzite is thought to constitute more quartz rich portions of the schist bedrock rather than a distinct separate lithological unit. Quartzite accounted for 10% of the sample; these particles were dense and competent.

Quartz-mica schist represented about 35% of the rock fragments. The composition of these particles ranged from essentially a quartzite composition to schist, with significant proportion of mica and possibly sillimanite. In general, these rock fragments were dense and of good strength.

Mica schist comprised 4% of the particles. This rock type was composed primarily of biotite and/or muscovite, and tended to be more friable due to its high mica content.

Phyllite was characterized by very fine grain size and a sheen that was observed on the particle surface, due to the high mica content. These particles were typically dark grey and contained some graphite. Nearly 6% of the particles were classified as phyllite.

Granitic rock fragments made up about 5% of the sample and were generally of good quality.

Andalusite-mica grains, and fragments of gneiss, sandstone and amphibolites each accounted for less than 1% of the sample.

Quartz was the most dominant single mineral particle type, making up about 31% of the sample. Some of the quartz was clear and colourless. However, a significant portion contained inclusions, sometimes of oxidized material. Oxidation staining was also observed on the surfaces of many quartz grains.

Feldspar accounted for 1.3% of the sample. Other single mineral grains were amphibole (0.2%) and andalusite (0.3%). The single mineral grains were of good physical strength.

Biotite and muscovite accounted for almost 3 percent of the sample, primarily in the finer size fractions.

More than 2% of the particles were deeply oxidized, such that as a result it was not possible to identify the exact nature of many of these fragments. These particles also tended to be weak and friable.

A minor amount (0.2%) of encrusted particles was observed, but only in the coarsest size fraction.

*Physical-Mechanical Quality*

Mica is a platy, pliable and weak mineral, and is a significant component in many of the schist particles. Mica schist, phyllite, biotite and muscovite grains made up almost 13% of the sample. In addition, 2% of the particles were deeply oxidized.

No specified limits exist that relate to the content of weak and friable material in fine concrete aggregate; however, in general, the greater the proportion of such material in concrete fine aggregate, the poorer would be the projected performance. Excessive amounts of micaceous materials can result in increased water demand in concrete (or binder demand for asphalt), due to the high surface area-to-mass ratio of platy particles. Hence, some allowance for mica contents may be required in the use of the subject sand.

*Alkali-Aggregate Reaction Potential*

The Petrographic Examination indicates several components of the sand which may be potentially alkali-aggregate reactive (“AAR”). These include quartzite, quartz and schist fragments. This is particularly relevant due to the metamorphic nature of many of these rocks, since metamorphism is commonly associated with introducing strain into various minerals, such as quartz. Strain in quartz can be manifested in terms of a higher reaction potential as in alkali-aggregate reaction, due to subcrystalline disordering of the quartz crystal lattice.

The Accelerated Mortar Bar Test method (AMBT) (CSA A23.2-25A) and the Concrete Prism Test (CPT) (CSA A23.2-14A) are suitable tests for evaluation of the properties of the fine aggregate with respect to potential for AAR.

The accelerated mortar bar test has been carried out on the combined coarse and fine portion of the sample as part of the current testing program. This test indicates that the material would be classified as “potentially reactive” with respect to alkali-aggregate reactivity. The alkali-silica reaction (ASR) variant of the reaction is indicated, on the basis of the petrography of the sample. Directives with respect to mitigative measures given in CSA A23.2-27A should be followed.

*Summary*

The TP BGC10-46 sample, as examined, was composed of metamorphic rocks, with some plutonic rocks and minor clastic sedimentary rock fragments and mineral components.

Due to the high mica content and the oxidation of the ferromagnesian minerals observed in many of the particles, use of this material as concrete aggregate may be considered only if satisfactory compliance with applicable specification can be demonstrated, and if deemed acceptable to the Owner. In addition, further assessment of the ASR characteristics of the material is recommended.

Reviewed by:

A. Briggs. M.Sc., GIT
Geoscientist

F. Shrimer, P. Geo.
Associate & Senior Geoscientist

# PETROGRAPHIC EXAMINATION OF COARSE AGGREGATE

***CSA A23.2-15A / ASTM C 295***

BGC Engineering Ltd.
Suite 630 - 1718 Argyle Street
Halifax, NS
B3J 3N6

January 11, 2011
Project Number: 10-1416-0029.17000

ATTENTION: Mr. Anthony Urquhart, P.Eng

| Sample | TP BGC10-46 |
|---|---|

**Date Received:** November 2010 **Sampled by:** Client

| | PETROGRAPHIC DESCRIPTION/ PHYSICAL QUALITY | PERCENT BY MASS | MULTI PLIER | PN CONTRIBUTION |
|---|---|---|---|---|
| GOOD | **Granite** - speckled white-black, strong | 2.3 | 1 | 2.3 |
| | **Quartz schist** – hard, strong | 36.8 | 1 | 36.8 |
| | **Quartz-mica schist** – medium hard | 5.2 | 1 | 5.2 |
| | **Andalusite-mica schist** | 3.5 | 1 | 3.5 |
| | **Gneiss** - quartz rich | 3.3 | 1 | 3.3 |
| | **Amphibolite** | 1.2 | 1 | 1.2 |
| | **Breccia** | Trace | 1 | Trace |
| | **Sandstone, siltstone** | 1.8 | 1 | 1.8 |
| | **Quartz vein** | 14.9 | 1 | 14.9 |
| | ***Subtotal*** | **69.0** | | **69.0** |
| FAIR | **Granite** – brittle, medium strength | 2.5 | 3 | 7.5 |
| | **Quartz schist** – hard | 9.1 | 3 | 27.3 |
| | **Quartz-mica schist** - medium hard | 6.3 | 3 | 18.9 |
| | **Mica schist** - soft | 3.7 | 3 | 11.1 |
| | **Andalusite-mica schist** | 2.6 | 3 | 7.8 |
| | **Graphite-bearing phyllite** | 0.7 | 3 | 2.1 |
| | **Gneiss, quartz rich** | 0.4 | 3 | 1.2 |
| | **Amphibolite** | 0.4 | 3 | 1.2 |
| | **Quartz vein** - brittle | 3.7 | 3 | 11.1 |
| | ***Subtotal*** | **29.4** | | **88.2** |
| POOR | **Granite** – weak, weathered | 0.5 | 6 | 3.0 |
| | **Quartz schist** – weak, weathered | 0.1 | 6 | 0.6 |
| | **Quartz-mica schist** - weathered, weak | 0.2 | 6 | 1.2 |
| | **Mica schist** - soft | 0.8 | 6 | 4.8 |
| | ***Subtotal*** | **1.6** | | 9.6 |
| | **TOTALS** | **100.0** | **PN** | **166.8** |

Note: 1. The PN is not related to potential for Alkali-Aggregate Reaction. AAR must be assessed separately.

PETROGRAPHER: _____
A. Briggs, M.Sc., GIT

## BGC – TP BGC10-46

*General*

The samples consisted of gravel-sized rock fragments and had been separated from the fine fraction; furthermore, the sample may have previously been washed, as minimal loose coating was present on the particles.

The particle geometry was variable, with many particles exhibiting flat and elongated shapes. Particles had generally smooth surfaces, some of which were pitted. Oxidation staining was common.

*Lithologic Composition*

Identification of rock types and minerals was done using a stereomicroscope with magnifications from 6x to about 50x, supplemented by basic geologic diagnostic methods. Thin sections were prepared from selected particles, but no chemical analyses were undertaken.

The sample was interpreted to consist of alluvial material, with its bedrock source in relatively close proximity to the place of its deposition. Such material is inferred to have not been transported by water, and therefore not been subject to the processes of wearing and rounding of individual particles or selection of hard versus soft particles, as would be expected in fluvial gravel.

Metamorphic rock types dominated the sample, primarily schist that contained mica and other phyllosilicates. This mineral group has a pronounced flat, sheet-like crystal structure, which heavily influences the particle shape of the host rock fragmernts. Therefore, many of the particles possessed particle shapes that trended towards flat and elongated geometry. The particle morphology is illustrated in Figure 1 and Figure 2.


**Figure 1. Sample TP BGC10-46, as received.**


**Figure 2. Quartz-mica schist and mica schist particles, which exhibit particle shapes trending towards flat and elongated.**

The dominant rock type was fine grained schist and related rock types. These were further sub-divided according to dominant mineral species.

The bulk of the sample consisted of schist in which mica and quartz were the dominant minerals. Based largely on hardness/scratch resistance, these were divided into three main groups.

One type of quartz schist consisted of only rock particles whose surface could not be scratched; these accounted for 46% of the sample. The dominant mineral was quartz. Other minerals included mica and possibly sillimanite. Some particles were composed almost exclusively of quartz and could be classified as quartzite. These were typically very strong. Other particles contained sufficient mica (and possibly other phyllosilicates) such that they were of pronounced flat and/or elongated morphology; these particles tended to break rather easily, typically in a splintery manner. Most of these particles were of medium strength only. Some medium and low strength quartz schist particles exhibited deep oxidation.

Quartz-mica schist that was medium hard comprised nearly 12% of the sample. More than half of this rock type consisted of particles that were of medium to low strength and typically exhibited flat and elongated particles shapes. Some of these were also deeply oxidized.

Almost 5% of the sample was mica schist, which was soft and of medium strength or weaker.

Approximately 6% of the particles consisted of andalusite-mica schist. These particles were typically brown in colour and strong or of medium strength.

A small proportion (0.7%) of the sample was identified as graphite-bearing phyllite. All of these particles were soft, medium strength and black with black streak.

Gneiss was white, almost completely lacking mafic minerals, and medium grained. Gneiss comprised just under 4% of the sample and this material was mostly of good strength.

Amphibolite accounted for about 2% of the particles, most of which was strong.

Granite contributed approximately 5% of the sample. This rock type was often deeply weathered and oxidized, and most of the granite was of medium strength only.

A considerable proportion of the sample, almost 19%, was quartz, which likely originated from quartz veins or the quartz-rich zones of the quartz schist formations from which the rock is thought to have originated-. Many of these particles exhibited pitted surfaces and oxidation, and although consisting primarily of quartz, some were brittle and of medium strength only. A trace amount of chert was included in this group, being of similar composition and strength.

About 2% of the sample was sandstone and siltstone, which was of good strength.

*Engineering Characteristics*

In addition to the geologic classification of the aggregate, the sample was also examined for characteristics relevant to engineering uses. Aspects such as porosity, strength, tenacity, particle shape, presence or absence of vugs, voids, fissures, cracks, coatings and impurities in the particles were considered in the assignment of individual particles into various quality classifications.

Although the majority of the sample was classified as being of "Good" physical quality, many particles were judged to be of moderate to poor engineering quality, due to their lower strength, splintery break and flat and elongated particle morphology.

On the basis of the examination and subsequent classification of the sample, the relative amounts of "Good", "Fair" and "Poor" quality material were determined. This enabled the determination of a Petrographic Number (or "PN"), in accordance with the method given in CSA A23.2-15A. The PN is an index of a coarse aggregate's overall physical-mechanical quality. The PN for this sample was "167".

For reference, the PN scale referenced in CSA A23.2-15A, Attachment A2, is as follows:

| PN LIMITS | PRODUCT TYPE |
|---|---|
| 125 | Concrete Class C1, C2, F1 |
| 140 max | Other concrete classes |
| 125 | Shotcrete |
| 125 | Railroad ballast |
| 150 | Granular base |
| 160 | Select Granular sub-base |

Based on the PN alone, the TP BGC10-46 coarse sample would be considered to be of unsuitable quality for some of the uses noted above. It may, however be of adequate quality for some construction uses, subject to satisfactory performance in applicable tests.

The particle shapes noted above (e.g., with a significant proportion of particles trending towards flat/elongated geometries) may have an impact on both the water demand and the workability and consolidation of concrete mixes produced from the sample material. It is therefore recommended that testing of the material in accordance with CSA A23.2-13A be conducted to evaluate the projected performance of the material, when used as concrete aggregate. Alternatively or additionally, trial mixes can be undertaken to assess the plastic characteristics of concrete made using these materials as aggregates. Such characteristics as workability, slump retention, water demand, placement, consolidation, harshness, as well as the subsequent hardened characteristics, can be assessed during a trial mix program.

*Alkali-Aggregate Reaction Potential*

Most of the rock types comprising the sample would be considered as "potentially alkali-reactive", with respect to the use of the aggregate in Portland cement concrete. Should the material be considered for use as Portland cement concrete aggregate, it is recommended that appropriate evaluations as given in the current version of CSA A23.1 and A23.2 be carried out to assess this potential.

An accelerated mortar bar test, CSA A23.2-25A, has been undertaken. The result indicates that the material can be classified as "potentially reactive" with respect to alkali-aggregate reaction. The alkali-silica reaction (ASR) variant of the reaction is indicated, on the basis of the petrography of the sample. Directives with respect to mitigative measures given in CSA A23.2-27A should be followed.

*Summary*

The TP BGC10-46 coarse sample was composed of a mixture of metamorphic rocks, with a small amount of granite and minor clastic sedimentary rocks. The sample had a PN of 167.

On the basis of the Petrographic Examination, the TP BGC10-46 coarse sample is not considered to be ideally suited for use as concrete coarse aggregate. This is largely based upon its PN, which in turn reflects the irregular/flat/elongated shape tendency of the material, as well as its schist-dominated geological composition, and its weathered appearance. It may be possible to produce concrete aggregate using this material, if there are no practical alternative sources available locally; however, it would need to be recognized that the materials would likely produce an overall lower-quality aggregate subject to certain

limitations in terms of both plastic as well as hardened characteristics of the concrete. Further evaluation of these properties is recommended. In addition, further assessment of the ASR characteristics of the material is recommended.

The material may be of adequate quality for other construction applications, subject to satisfactory compliance with applicable specifications.

Reviewed:

A. Briggs, M.Sc., GIT

F. Shrimer, P. Geo.

# SOUNDNESS OF AGGREGATE BY USE OF MAGNESIUM SULPHATE

***CSA A23.2-9A***

December 6, 2010
Project number: 10-1416-0029/17000

BGC Engineering Inc.
Suite 630 – 1718 Argyle Street
Halifax, NS
B3J 3N6

ATTENTION: Mr. Anthony Urquhart, P. Eng.

**PROJECT:** **Eagle Gold Project**

| | |
|---|---|
| **Sample:** | **TP-BGC10-46, Coarse** |
| **Source:** | **Yukon** |

**Date sampled:** November, 2010
**Date tested:** November 27, 2010

**Sampled by:** Client
**Tested by:** DC

| Sieve Fraction (mm) | Original Grading (%) | Mass per fraction before test (g) | Loss (%) | Weighted Loss (%) |
|---|---|---|---|---|
| 100 × 80 | 8.4 | -- | 3.6 (1) | 0.3 |
| 80 × 56<br>56 × 40 | 16.9 | 5048.0 | 3.6 | 0.6 |
| 40 × 28<br>28 × 20 | 24.8 | 1524.2 | 2.0 | 0.5 |
| 20 × 14<br>14 × 10 | 25.1 | 1001.2 | 7.0 | 1.8 |
| 10 × 5 | 24.8 | 300.0 | 9.3 (1) | 2.3 |
| | **100.0** | | **TOTAL** | **5.5** |

**Note:** (1) Due to large size and insufficient materials, the farction hadn't been tested and assumed to have the same loss as the next smaller size fraction.

Reported by: I. Chung

Reviewed by: _____
L. Hu, M. Sc. E.

# SOUNDNESS OF AGGREGATE BY USE OF MAGNESIUM SULPHATE

*CSA A23.2-9A*

December 6, 2010
Project number: 10-1416-0029/17000

BGC Engineering Inc.
Suite 630 – 1718 Argyle Street
Halifax, NS
B3J 3N6

ATTENTION: Mr. Anthony Urquhart, P. Eng.

**PROJECT:** **Eagle Gold Project**

| | |
|---|---|
| **Sample:** | **TP-BGC10-46, Fines** |
| **Source:** | **Yukon** |

**Date sampled:** November, 2010
**Date tested:** November 27, 2010

**Sampled by:** Client
**Tested by:** DC

| Sieve Fraction (mm) | Original Grading % Retained | Mass before test (g) | Loss (%) | Weighted Loss (%) |
|---|---|---|---|---|
| 5 - 2.5 | 20.6 | 100.7 | 16.7 | 3.4 |
| 2.5 - 1.25 | 18.9 | 100.2 | 13.6 | 2.6 |
| 1.25 - 0.630 | 14.9 | 100.1 | 13.7 | 2.0 |
| 0.630 - 0.315 | 12.2 | 100.4 | 13.1 | 1.6 |
| < 0.315 | 33.4 | -- | 0.0 (1) | 0.0 |
| | **100.0** | | **TOTAL** | **9.6** |

**Note:** (1) According CSA, the fraction size < 0.315mm are assumed to have a loss of 0.0%.

Reported by: I. Chung

Reviewed by: _____
L. Hu, M. Sc. E.

*Notice:* The test data given herein pertain to the sample provided, and may not be applicable to material from other production zones/periods. This report constitutes a testing service only. Interpretation of the data given here may be provided upon request.

# RESISTANCE OF UNCONFINED COARSE AGGREGATE TO FREEZING AND THAWING

***CSA A23.2-24A***

December 6, 2010
Project number: 10-1416-0029/17000

BGC Engineering Inc.
Suite 630 – 1718 Argyle Street
Halifax, NS
B3J 3N6

ATTENTION: Mr. Anthony Urquhart, P. Eng.

**PROJECT:** **Eagle Gold Project**

| | |
|---|---|
| **Sample:** | **TP-BGC10-46, Coarse** |
| **Source:** | **Yukon** |

**Date sampled:** November, 2010 **Sampled by:** Client
**Date tested:** November 27, 2010 **Tested by:** DC

| Sieve Fraction (mm) | Original Grading (%) | Loss (%) | Weighted Loss (%) |
|---|---|---|---|
| Retained on 28 | 39.0 | 2.6 (1) | 1.0 |
| 28 × 20 | 11.1 | 2.6 | 0.3 |
| 20 × 14 | 15.1 | 4.0 | 0.6 |
| 14 × 10 | 10.0 | 5.0 | 0.5 |
| 10 × 5 | 24.8 | 5.0 | 1.2 |
| | **100.0** | **Weighted Total** | **3.6** |

| Control Aggregate Brechin stone (Validation) Test Data | |
|---|---|
| **Test date** | November 27, 2010 |
| **Weighted loss** | 13.9% |

**Note:** (1) Due to large size and insufficient materials, the farction retained on 28mm weren't tested and assumed to have the same loss as the next smaller size.

Reported by: I. Chung

Reviewed by: _____
L. Hu, M. Sc. E.

*Notice:* The test data given herein pertain to the sample provided, and may not be applicable to material from other production zones/periods. This report constitutes a testing service only. Interpretation of the data given here may be provided upon request.

# DETECTION OF ALKALI-SILICA REACTIVE AGGREGATE BY ACCELERATED EXPANSION OF MORTAR BARS

*CSA A23.2-25A*

BGC Engineering Inc.
Suite 630 - 1718 Argyle Street
Halifax, NS
B3J 3N6

December 30, 2010
Project number: 10-1416-0029/17000

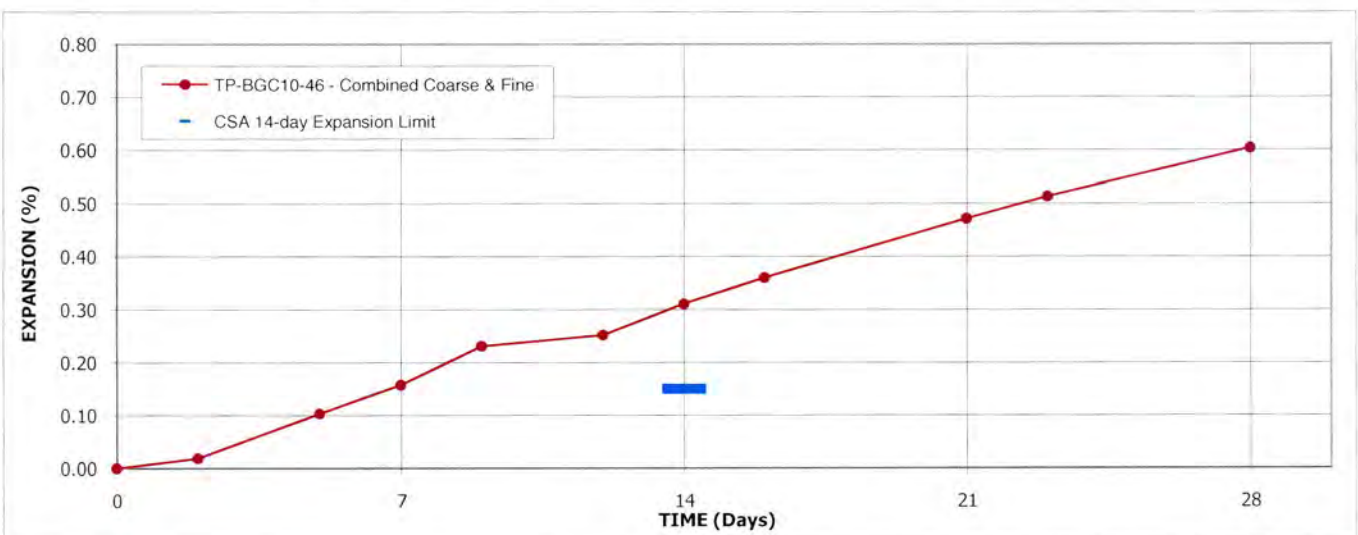
ATTENTION: Mr. Anthony Urquhart, P. Eng.

**PROJECT:** Eagle Gold Project

| Sample: | TP-BGC10-46 - Combined Coarse & Fine |
|---|---|
| Source: | Yukon |

TEST NO: **AMBT-10-052**
SAMPLED BY: **Client**
DATE SAMPLED: **November 2010**
TOTAL CEMENT ALKALI: **$K_2O$: 1.20% ; $Na_2O$: 0.15%**

CEMENT TYPE: **GU**
CEMENT SOURCE: **ESSROC (Picton, ON)**
WATER BINDER RATIO: **0.49**
CEMENT ALKALI ($Na_2O$ eq.): **0.94%**



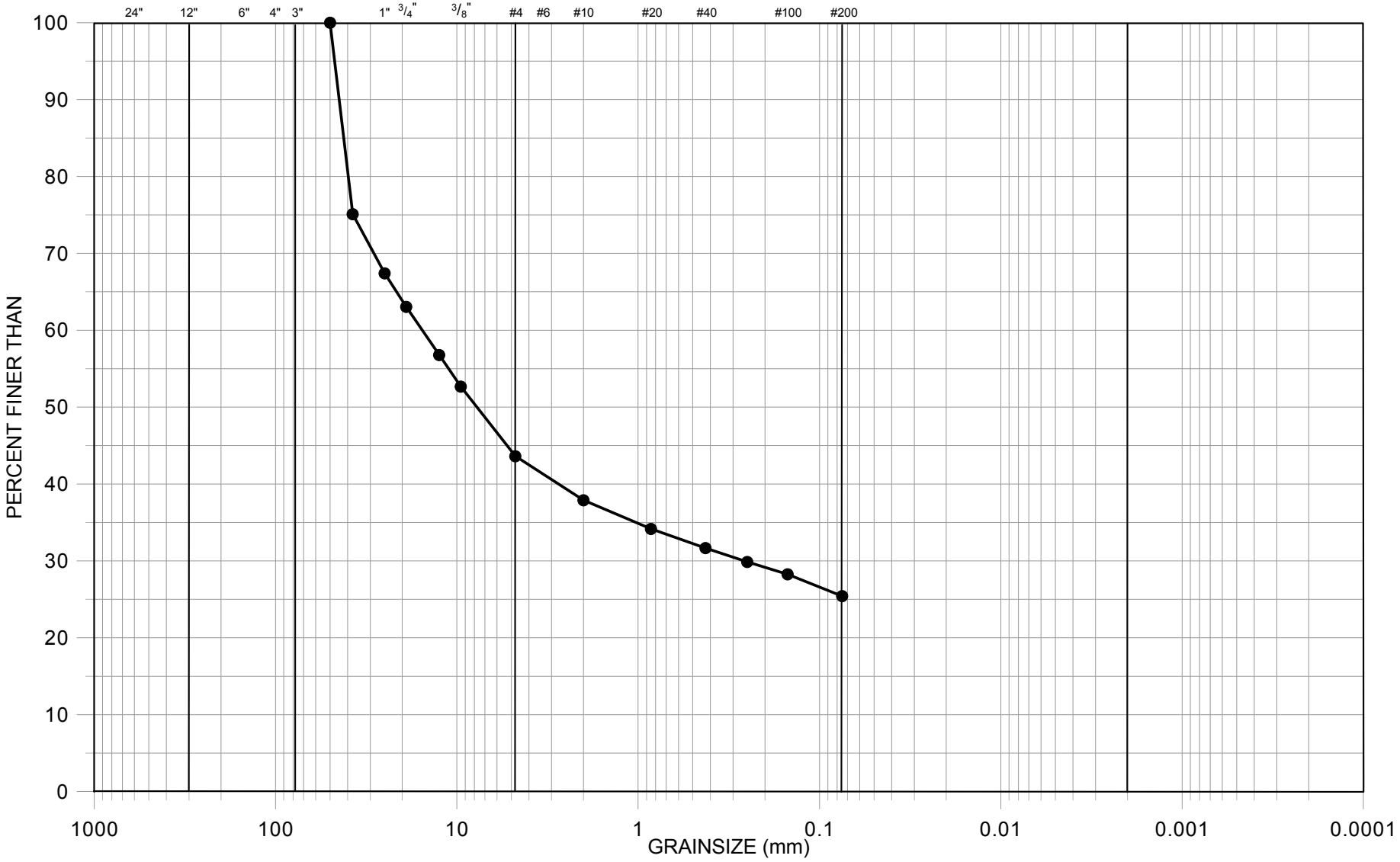

| Expansion (%) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TIME,Days | 0 | 2 | 5 | 7 | 9 | 12 | **14** | 16 | 21 | 23 | 28 |
| AVERAGE | 0.000 | 0.019 | 0.103 | 0.158 | 0.231 | 0.252 | **0.311** | 0.360 | 0.471 | 0.513 | 0.604 |
| CSA 14-day Expansion Limit | | | | | | | **0.15** | | | | |

Notes: 1. Spratt Aggregate validation result: 0.40% expansion at 14 days, cast April 14, 2010.
2. The test sample was prepared based on the crushed representative blend of coarse & fine of the mateial.

Reported by: I. Chung

Reviewed by: L. Hu, M. Sc. E.

# APPENDIX H
# LABORATORY TESTING RESULTS PLOTS




| BOULDER | COBBLE | GRAVEL | | SAND | | SILT | CLAY |
|---|---|---|---|---|---|---|---|
| | | COARSE | FINE | COARSE | FINE | | |

| SCALE: | DATE: | DRAWN: | DESIGNED: | CHECKED: | APPROVED: |
|---|---|---|---|---|---|
| NTS | NOV 2011 | TD | AJ | AKU | PQ |



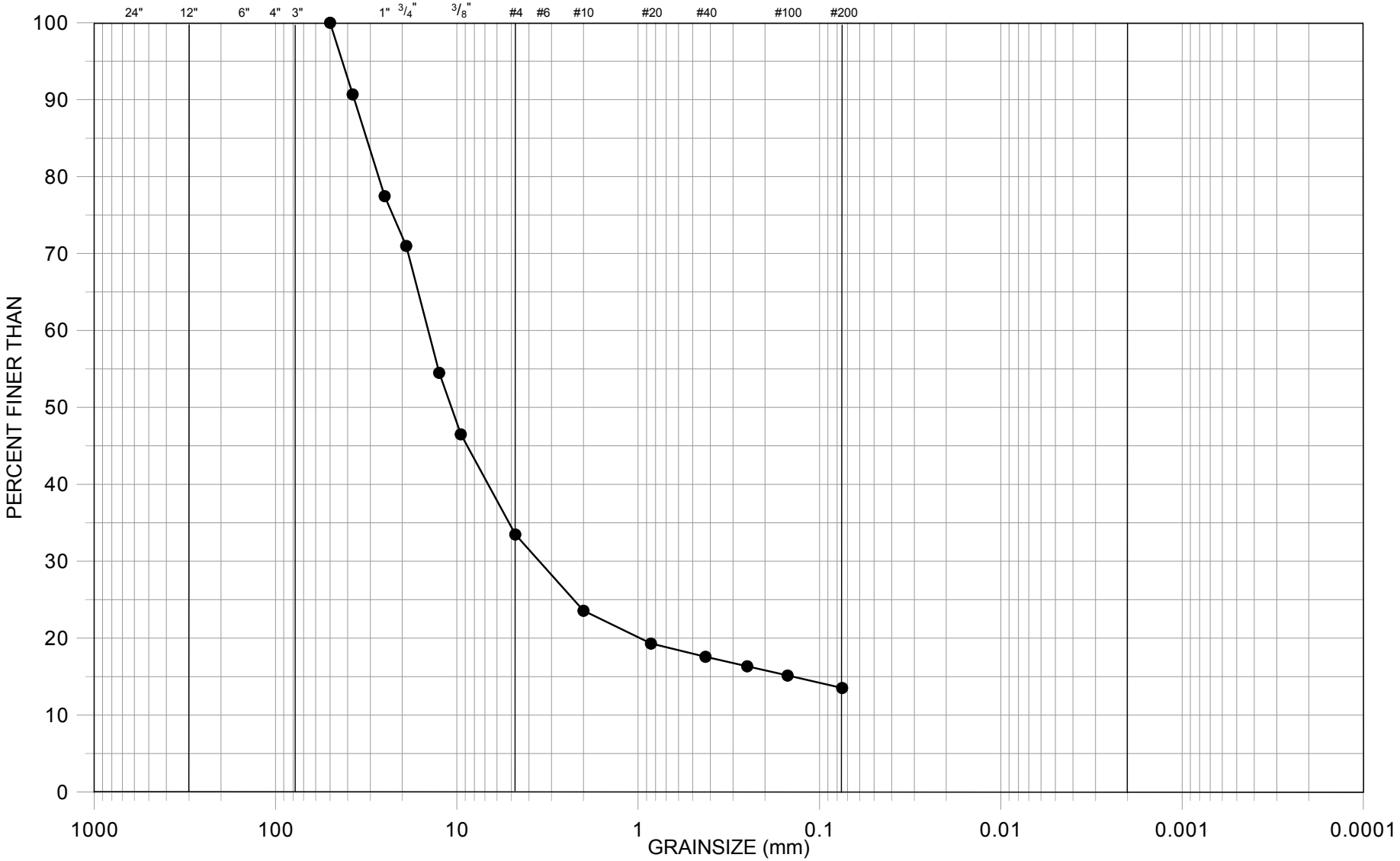
BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

PROJECT: EAGLE GOLD PROJECT
2010 GEOTECHNICAL INVESTIGATION
FACTUAL DATA REPORT

TITLE: GRAINSIZE LABORATORY RESULTS
TP-BGC10-05 (M1)

CLIENT: VICTORIA GOLD CORPORATION

| PROJECT No. | FIG No. | REV. |
|---|---|---|
| 0792-004 | H-1 | 0 |




| BOULDER | COBBLE | GRAVEL | | SAND | | SILT | CLAY |
|---|---|---|---|---|---|---|---|
| | | COARSE | FINE | COARSE | FINE | | |

| SCALE: | DATE: | DRAWN: | DESIGNED: | CHECKED: | APPROVED: |
|---|---|---|---|---|---|
| NTS | NOV 2011 | TD | AJ | AKU | PQ |



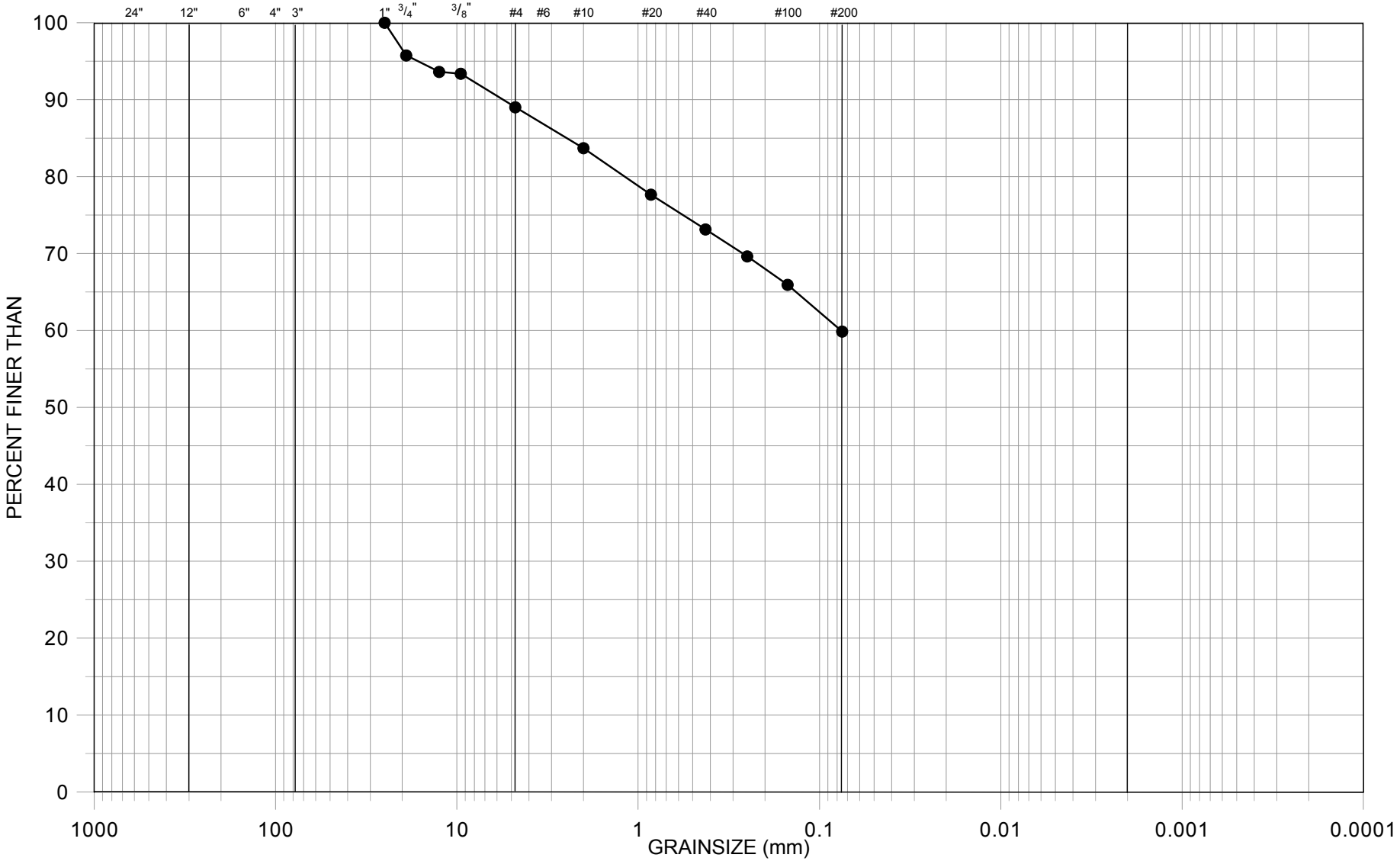
BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

PROJECT: EAGLE GOLD PROJECT
2010 GEOTECHNICAL INVESTIGATION
FACTUAL DATA REPORT

TITLE: GRAINSIZE LABORATORY RESULTS
TP-BGC10-06 (M1)

CLIENT: VICTORIA GOLD CORPORATION

| PROJECT No. | FIG No. | REV. |
|---|---|---|
| 0792-004 | H-2 | 0 |




| BOULDER | COBBLE | GRAVEL | | SAND | | SILT | CLAY |
|---|---|---|---|---|---|---|---|
| | | COARSE | FINE | COARSE | FINE | | |

| SCALE: | DATE: | DRAWN: | DESIGNED: | CHECKED: | APPROVED: |
|---|---|---|---|---|---|
| NTS | NOV 2011 | TD | AJ | AKU | PQ |



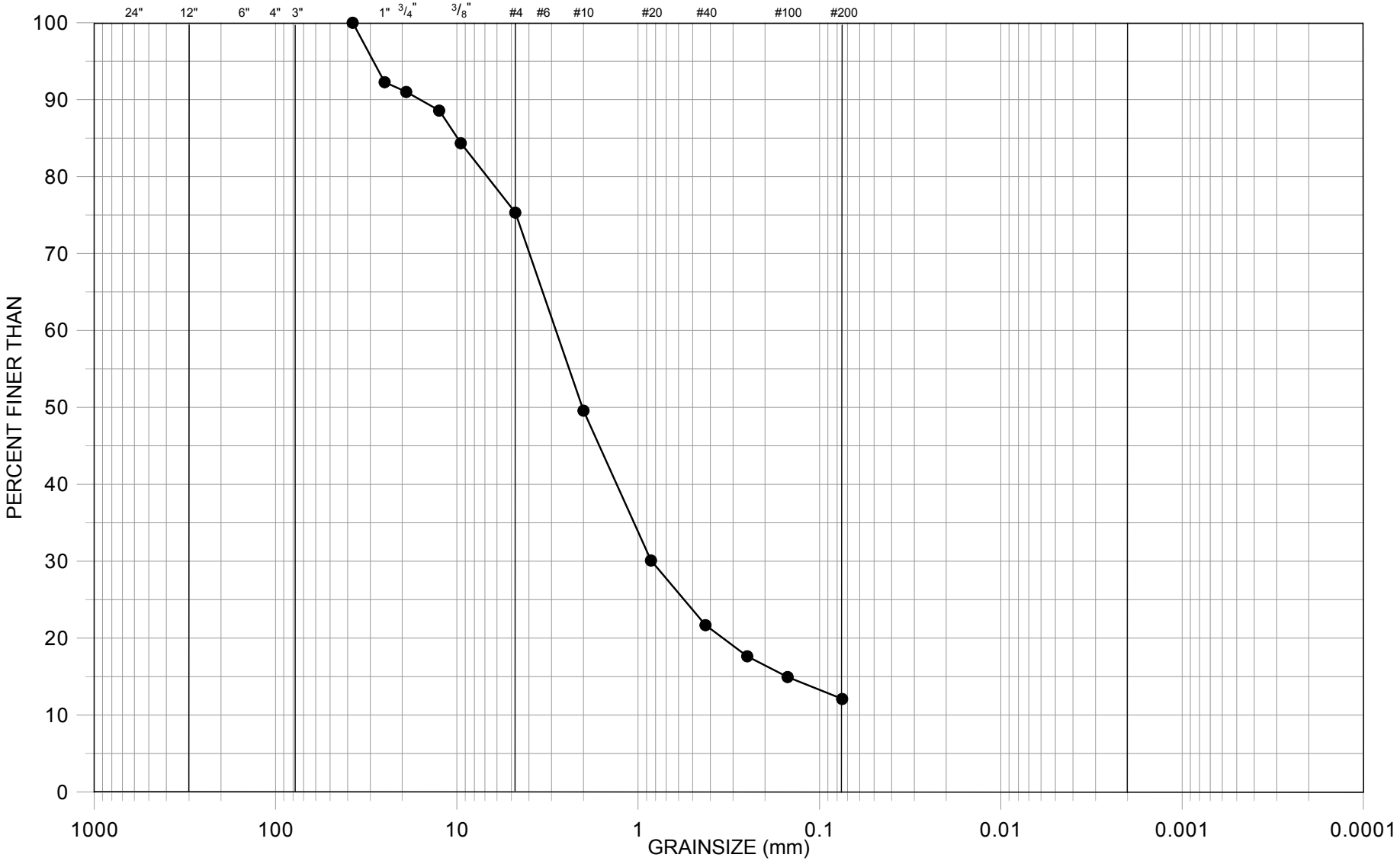
BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

PROJECT: EAGLE GOLD PROJECT
2010 GEOTECHNICAL INVESTIGATION
FACTUAL DATA REPORT

TITLE: GRAINSIZE LABORATORY RESULTS
TP-BGC10-06 (M2)

CLIENT: VICTORIA GOLD CORPORATION

| PROJECT No. | FIG No. | REV. |
|---|---|---|
| 0792-004 | H-3 | 0 |




| BOULDER | COBBLE | GRAVEL | | SAND | | SILT | CLAY |
|---|---|---|---|---|---|---|---|
| | | COARSE | FINE | COARSE | FINE | | |

| SCALE: | DATE: | DRAWN: | DESIGNED: | CHECKED: | APPROVED: |
|---|---|---|---|---|---|
| NTS | NOV 2011 | TD | AJ | AKU | PQ |



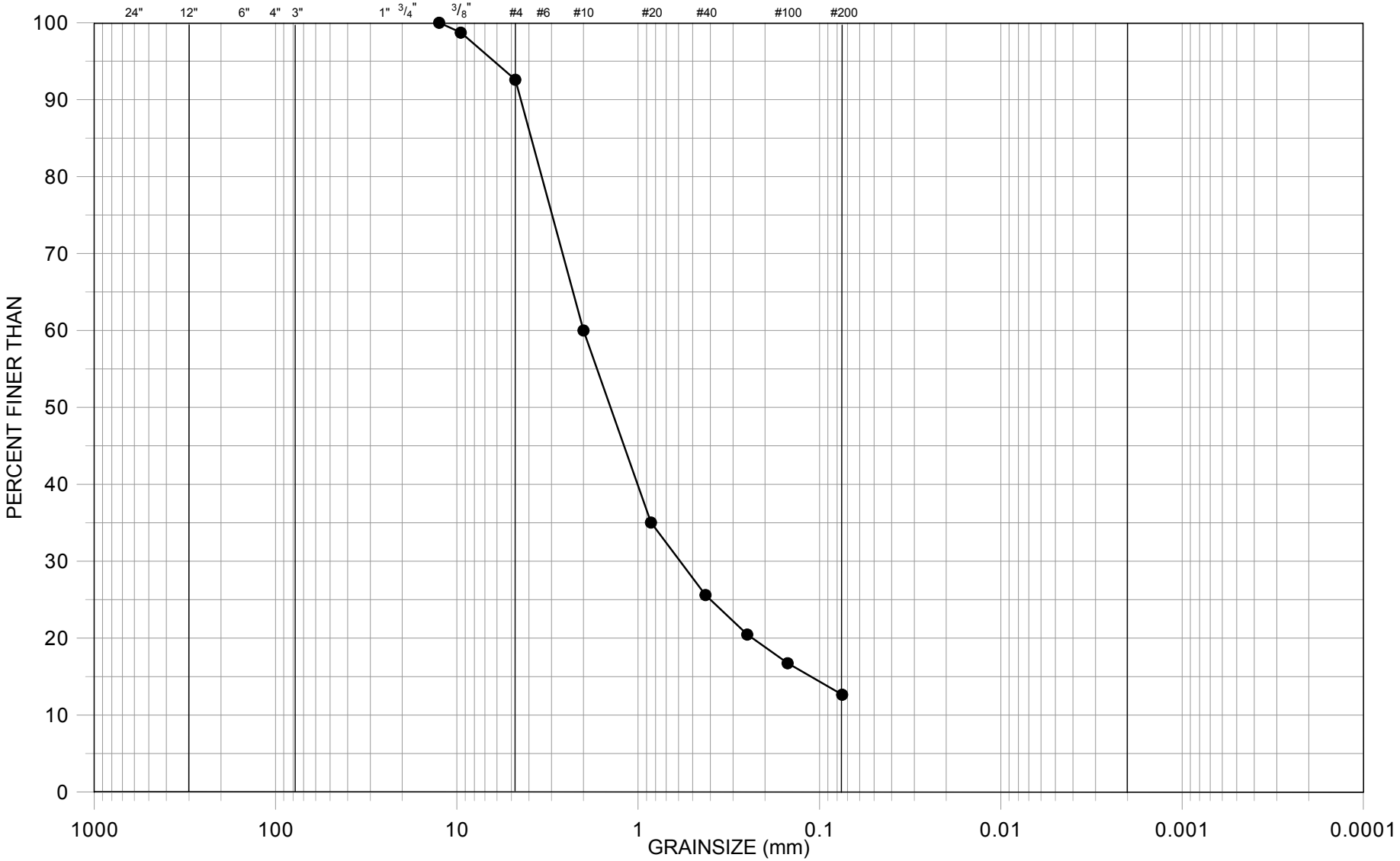
BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

PROJECT: EAGLE GOLD PROJECT
2010 GEOTECHNICAL INVESTIGATION
FACTUAL DATA REPORT

TITLE: GRAINSIZE LABORATORY RESULTS
TP-BGC10-08 (M1)

CLIENT: VICTORIA GOLD CORPORATION

| PROJECT No. | FIG No. | REV. |
|---|---|---|
| 0792-004 | H-4 | 0 |




| BOULDER | COBBLE | GRAVEL | | SAND | | SILT | CLAY |
|---|---|---|---|---|---|---|---|
| | | COARSE | FINE | COARSE | FINE | | |

| SCALE: | DATE: | DRAWN: | DESIGNED: | CHECKED: | APPROVED: |
|---|---|---|---|---|---|
| NTS | NOV 2011 | TD | AJ | AKU | PQ |



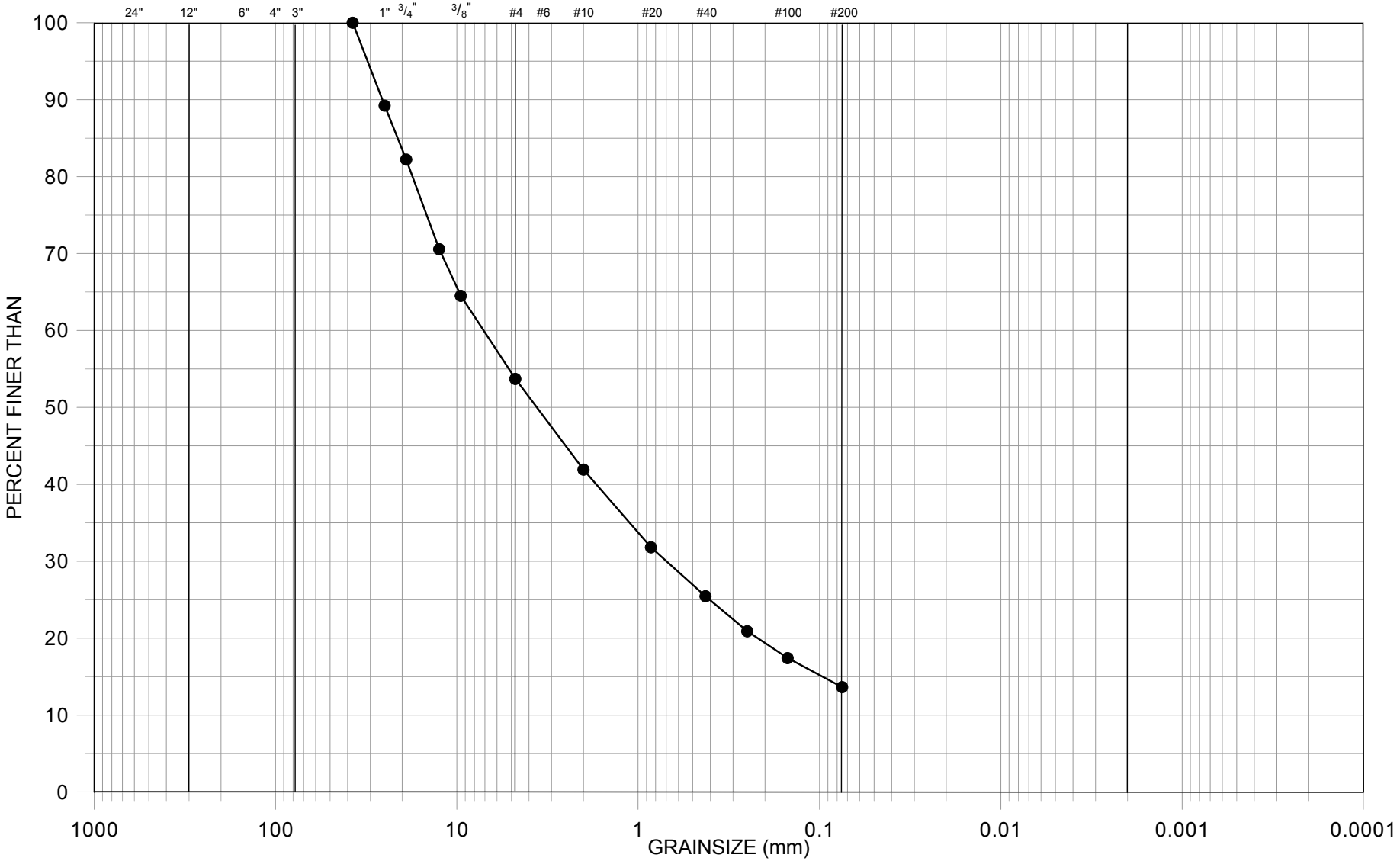
BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

PROJECT: EAGLE GOLD PROJECT
2010 GEOTECHNICAL INVESTIGATION
FACTUAL DATA REPORT

TITLE: GRAINSIZE LABORATORY RESULTS
TP-BGC10-08 (M2)

CLIENT: VICTORIA GOLD CORPORATION

| PROJECT No. | FIG No. | REV. |
|---|---|---|
| 0792-004 | H-5 | 0 |




| BOULDER | COBBLE | GRAVEL | | SAND | | SILT | CLAY |
|---|---|---|---|---|---|---|---|
| | | COARSE | FINE | COARSE | FINE | | |

| SCALE: | DATE: | DRAWN: | DESIGNED: | CHECKED: | APPROVED: |
|---|---|---|---|---|---|
| NTS | NOV 2011 | TD | AJ | AKU | PQ |



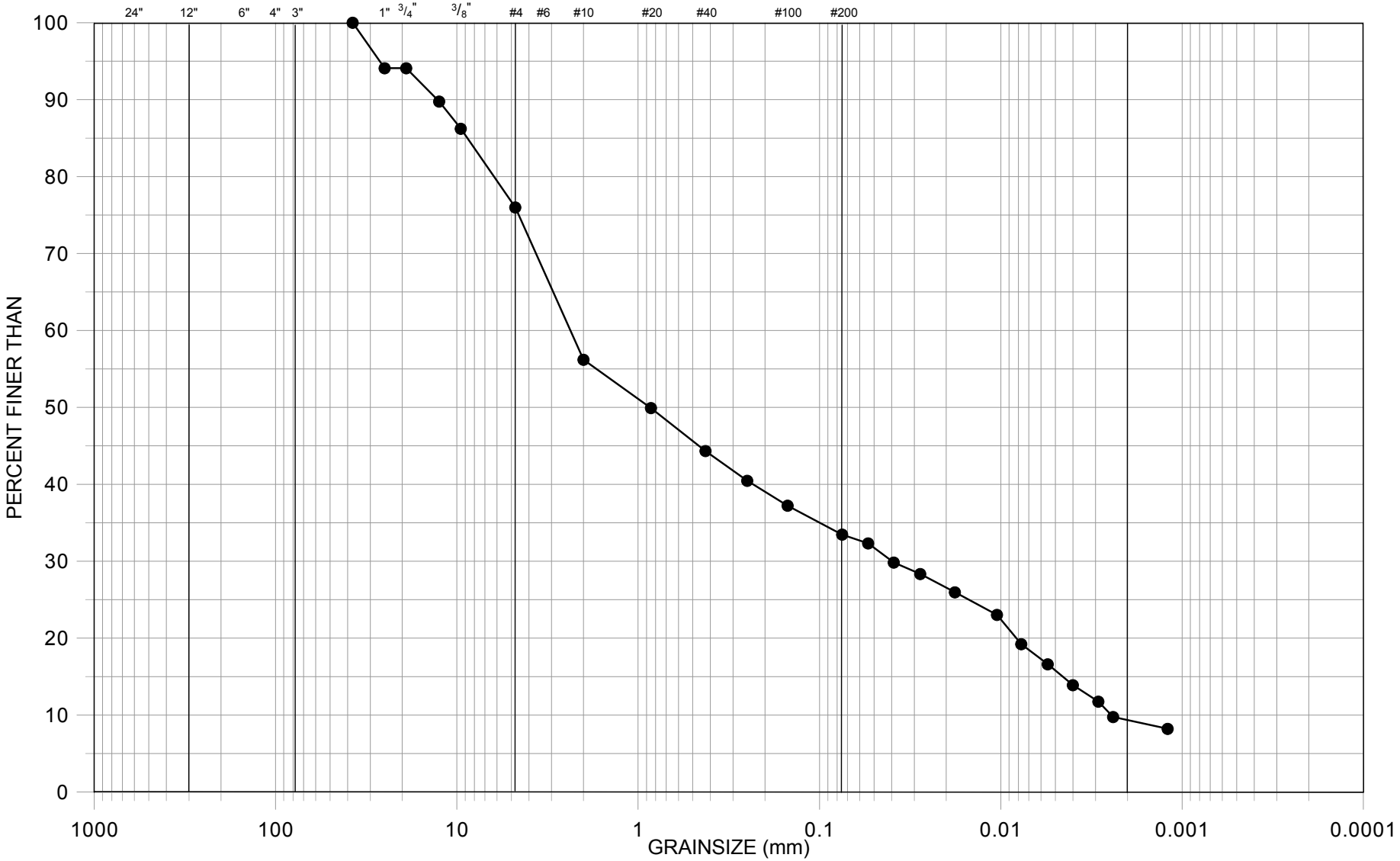
BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

PROJECT: EAGLE GOLD PROJECT
2010 GEOTECHNICAL INVESTIGATION
FACTUAL DATA REPORT

TITLE: GRAINSIZE LABORATORY RESULTS
TP-BGC10-11 (M3)

CLIENT: VICTORIA GOLD CORPORATION

| PROJECT No. | FIG No. | REV. |
|---|---|---|
| 0792-004 | H-6 | 0 |




| BOULDER | COBBLE | GRAVEL | | SAND | | SILT | CLAY |
|---|---|---|---|---|---|---|---|
| | | COARSE | FINE | COARSE | FINE | | |

| SCALE: | DATE: | DRAWN: | DESIGNED: | CHECKED: | APPROVED: |
|---|---|---|---|---|---|
| NTS | NOV 2011 | TD | AJ | AKU | PQ |



BGC ENGINEERING INC.
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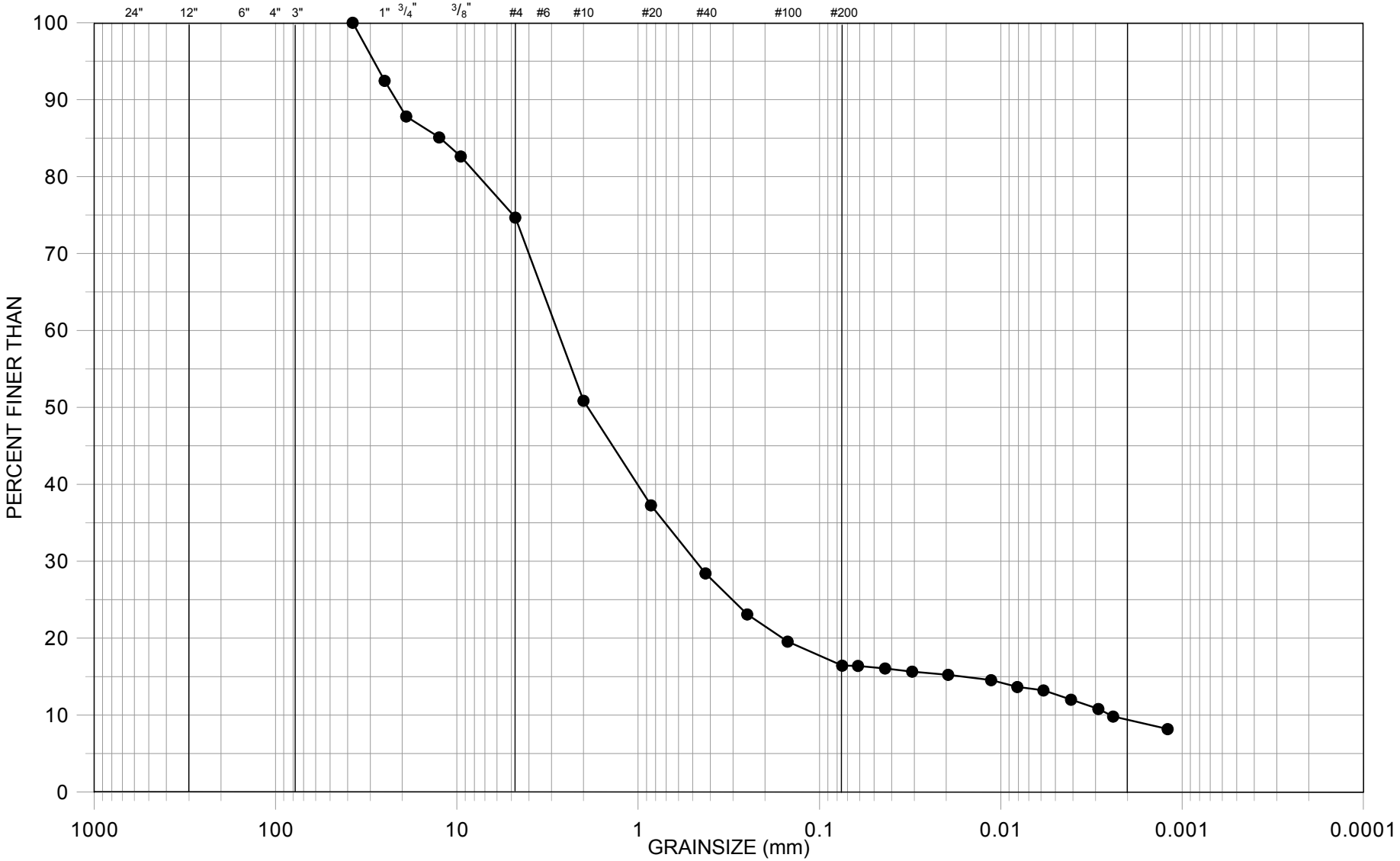
PROJECT: EAGLE GOLD PROJECT
2010 GEOTECHNICAL INVESTIGATION
FACTUAL DATA REPORT

TITLE: GRAINSIZE LABORATORY RESULTS
TP-BGC10-12 (M2)

CLIENT: VICTORIA GOLD CORPORATION

| PROJECT No. | FIG No. | REV. |
|---|---|---|
| 0792-004 | H-7 | 0 |




| BOULDER | COBBLE | GRAVEL | | SAND | | SILT | CLAY |
|---|---|---|---|---|---|---|---|
| | | COARSE | FINE | COARSE | FINE | | |

| SCALE: | DATE: | DRAWN: | DESIGNED: | CHECKED: | APPROVED: |
|---|---|---|---|---|---|
| NTS | NOV 2011 | TD | AJ | AKU | PQ |



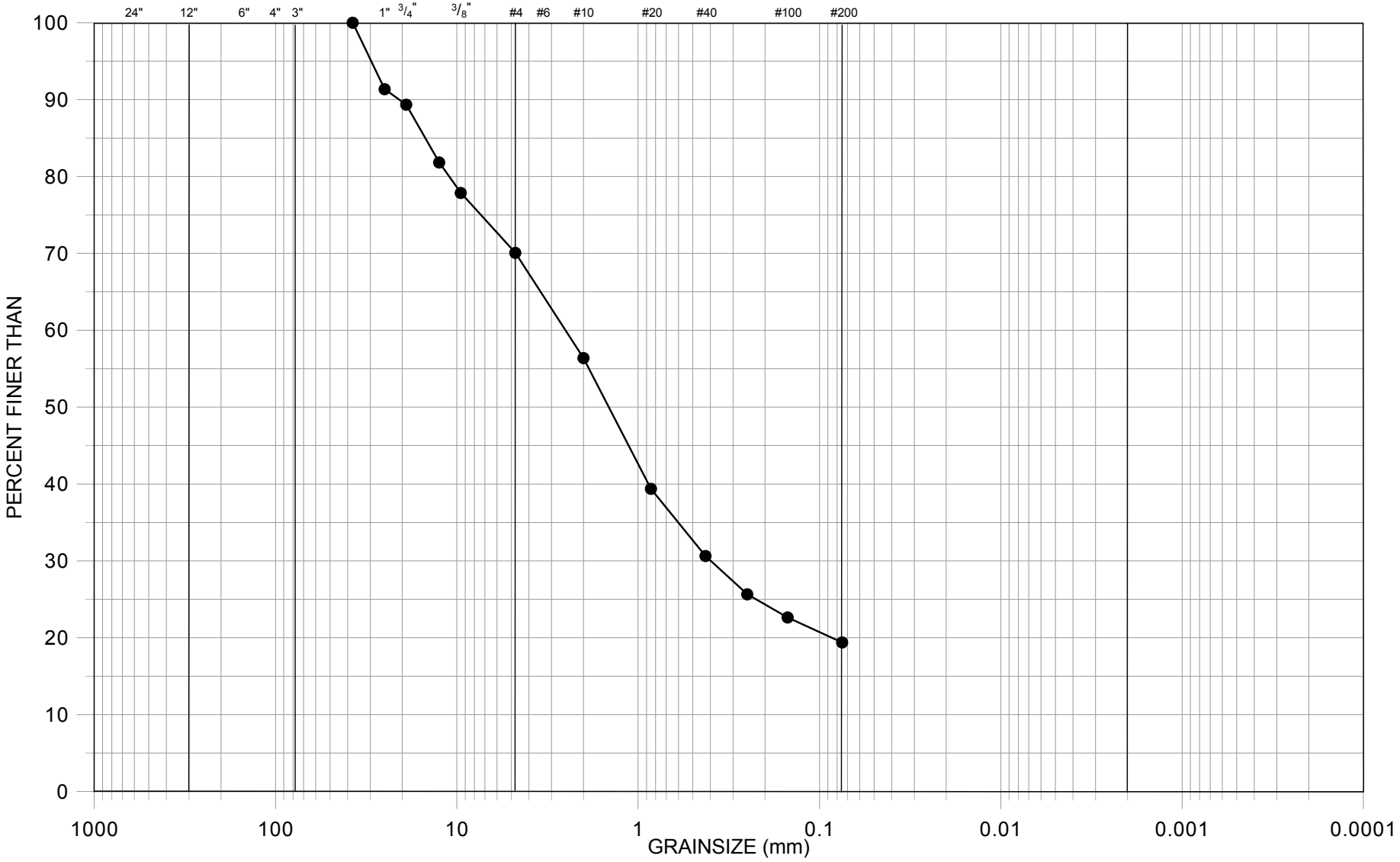
BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

PROJECT: EAGLE GOLD PROJECT
2010 GEOTECHNICAL INVESTIGATION
FACTUAL DATA REPORT

TITLE: GRAINSIZE LABORATORY RESULTS
TP-BGC10-13 (M2)

CLIENT: VICTORIA GOLD CORPORATION

| PROJECT No. | FIG No. | REV. |
|---|---|---|
| 0792-004 | H-8 | 0 |




| BOULDER | COBBLE | GRAVEL | | SAND | | SILT | CLAY |
|---|---|---|---|---|---|---|---|
| | | COARSE | FINE | COARSE | FINE | | |

| SCALE: | DATE: | DRAWN: | DESIGNED: | CHECKED: | APPROVED: |
|---|---|---|---|---|---|
| NTS | NOV 2011 | TD | AJ | AKU | PQ |



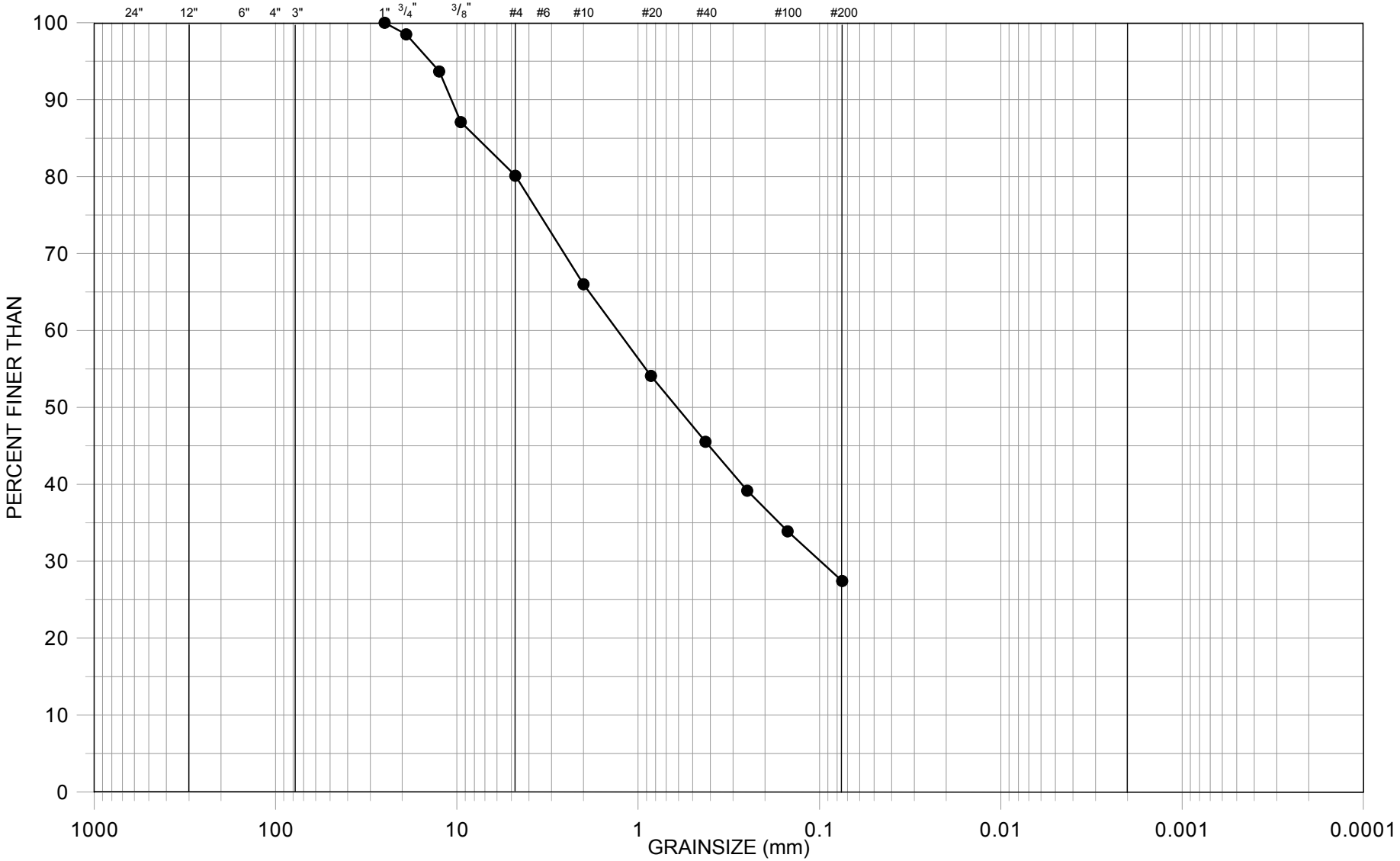
BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

PROJECT: EAGLE GOLD PROJECT
2010 GEOTECHNICAL INVESTIGATION
FACTUAL DATA REPORT

TITLE: GRAINSIZE LABORATORY RESULTS
TP-BGC10-14 (M4)

CLIENT: VICTORIA GOLD CORPORATION

| PROJECT No. | FIG No. | REV. |
|---|---|---|
| 0792-004 | H-9 | 0 |




| BOULDER | COBBLE | GRAVEL | | SAND | | SILT | CLAY |
|---|---|---|---|---|---|---|---|
| | | COARSE | FINE | COARSE | FINE | | |

| SCALE: | DATE: | DRAWN: | DESIGNED: | CHECKED: | APPROVED: |
|---|---|---|---|---|---|
| NTS | NOV 2011 | TD | AJ | AKU | PQ |



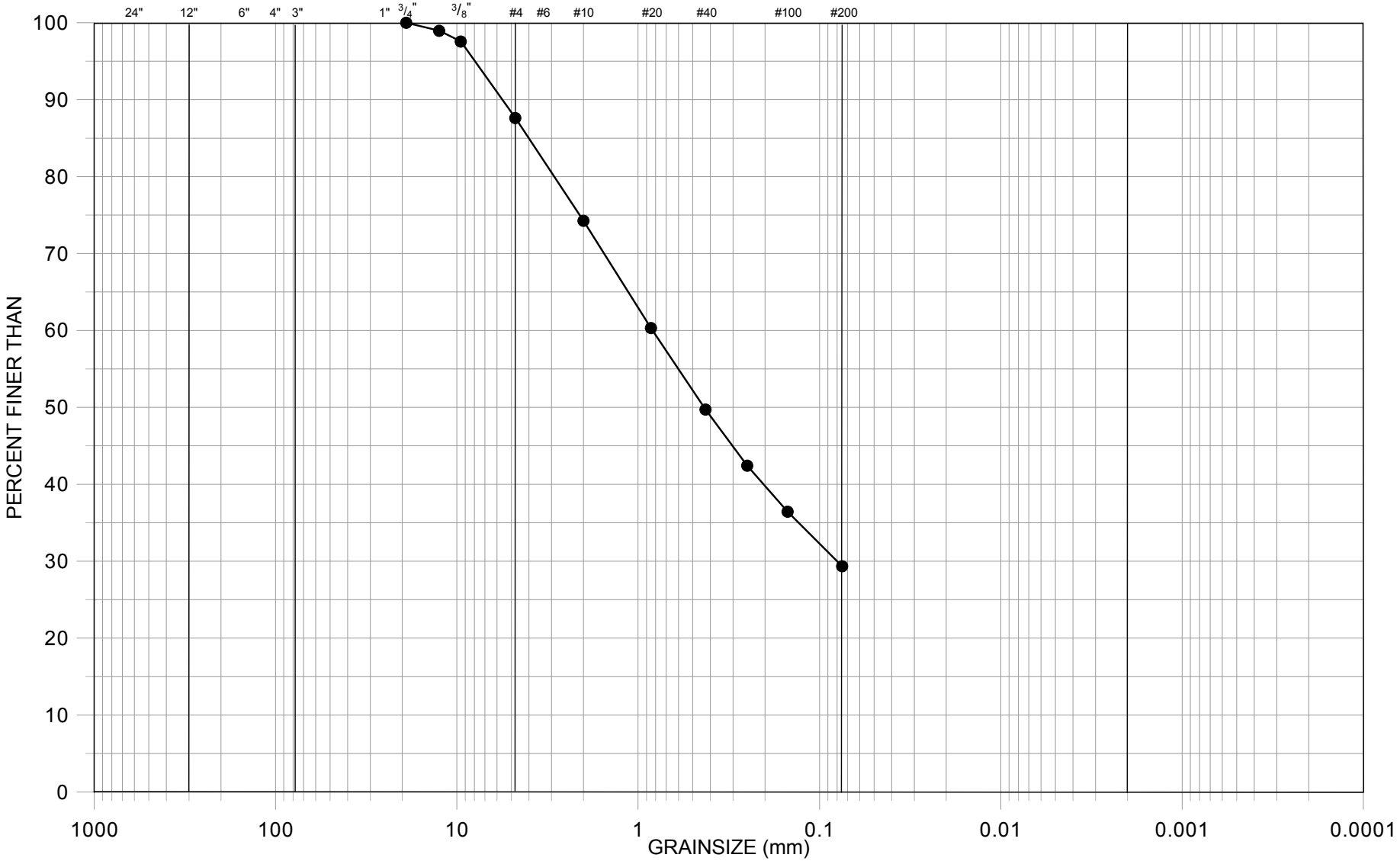
BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

PROJECT: EAGLE GOLD PROJECT
2010 GEOTECHNICAL INVESTIGATION
FACTUAL DATA REPORT

TITLE: GRAINSIZE LABORATORY RESULTS
TP-BGC10-15 (M1)

CLIENT: VICTORIA GOLD CORPORATION

| PROJECT No. | FIG No. | REV. |
|---|---|---|
| 0792-004 | H-10 | 0 |




| BOULDER | COBBLE | GRAVEL | | SAND | | SILT | CLAY |
|---|---|---|---|---|---|---|---|
| | | COARSE | FINE | COARSE | FINE | | |

| SCALE: | DATE: | DRAWN: | DESIGNED: | CHECKED: | APPROVED: |
|---|---|---|---|---|---|
| NTS | NOV 2011 | TD | AJ | AKU | PQ |



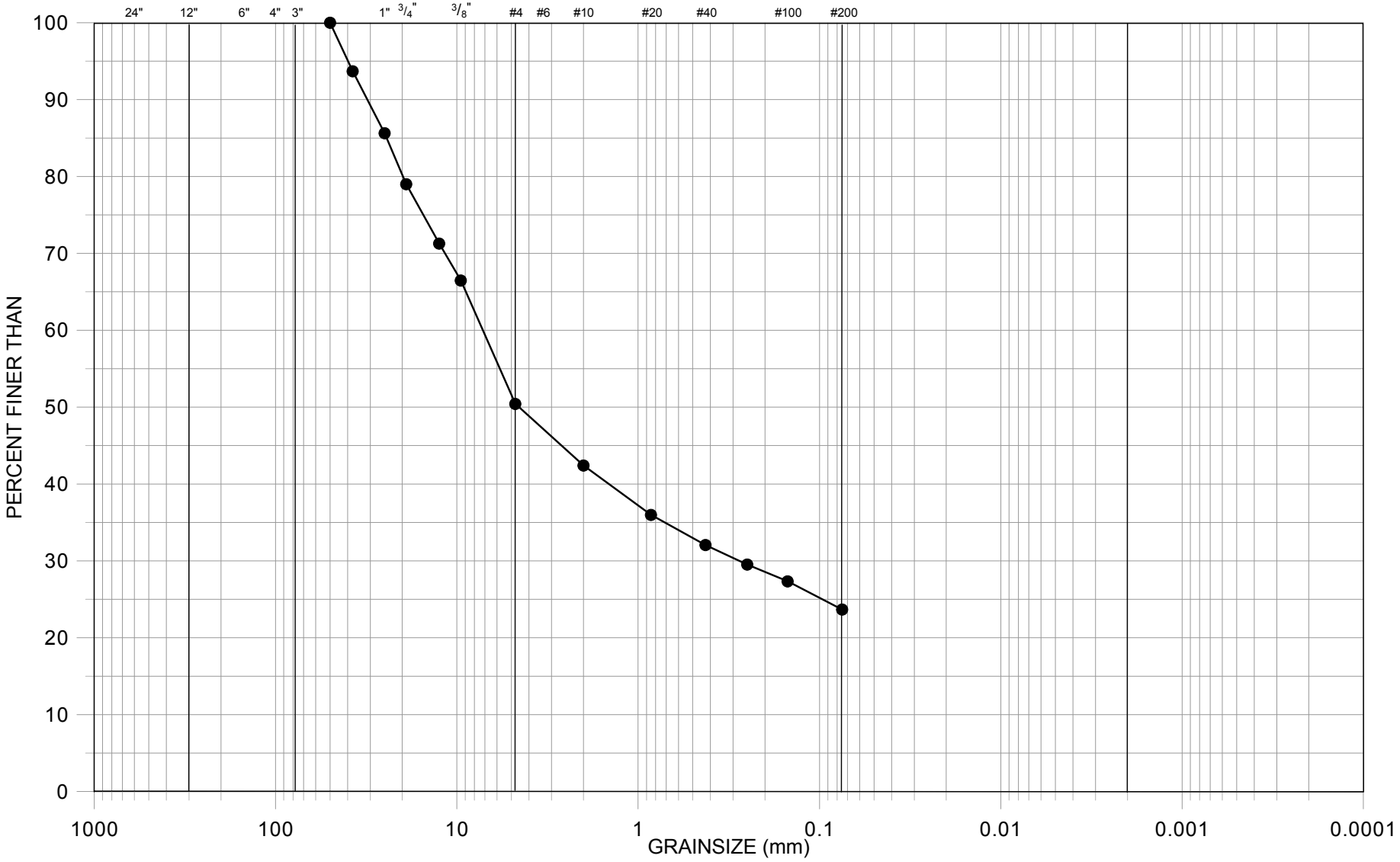
BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

PROJECT: EAGLE GOLD PROJECT
2010 GEOTECHNICAL INVESTIGATION
FACTUAL DATA REPORT

TITLE: GRAINSIZE LABORATORY RESULTS
TP-BGC10-15 (M2)

CLIENT: VICTORIA GOLD CORPORATION

| PROJECT No. | FIG No. | REV. |
|---|---|---|
| 0792-004 | H-11 | 0 |




| BOULDER | COBBLE | GRAVEL | | SAND | | SILT | CLAY |
|---|---|---|---|---|---|---|---|
| | | COARSE | FINE | COARSE | FINE | | |

| SCALE: | DATE: | DRAWN: | DESIGNED: | CHECKED: | APPROVED: |
|---|---|---|---|---|---|
| NTS | NOV 2011 | TD | AJ | AKU | PQ |



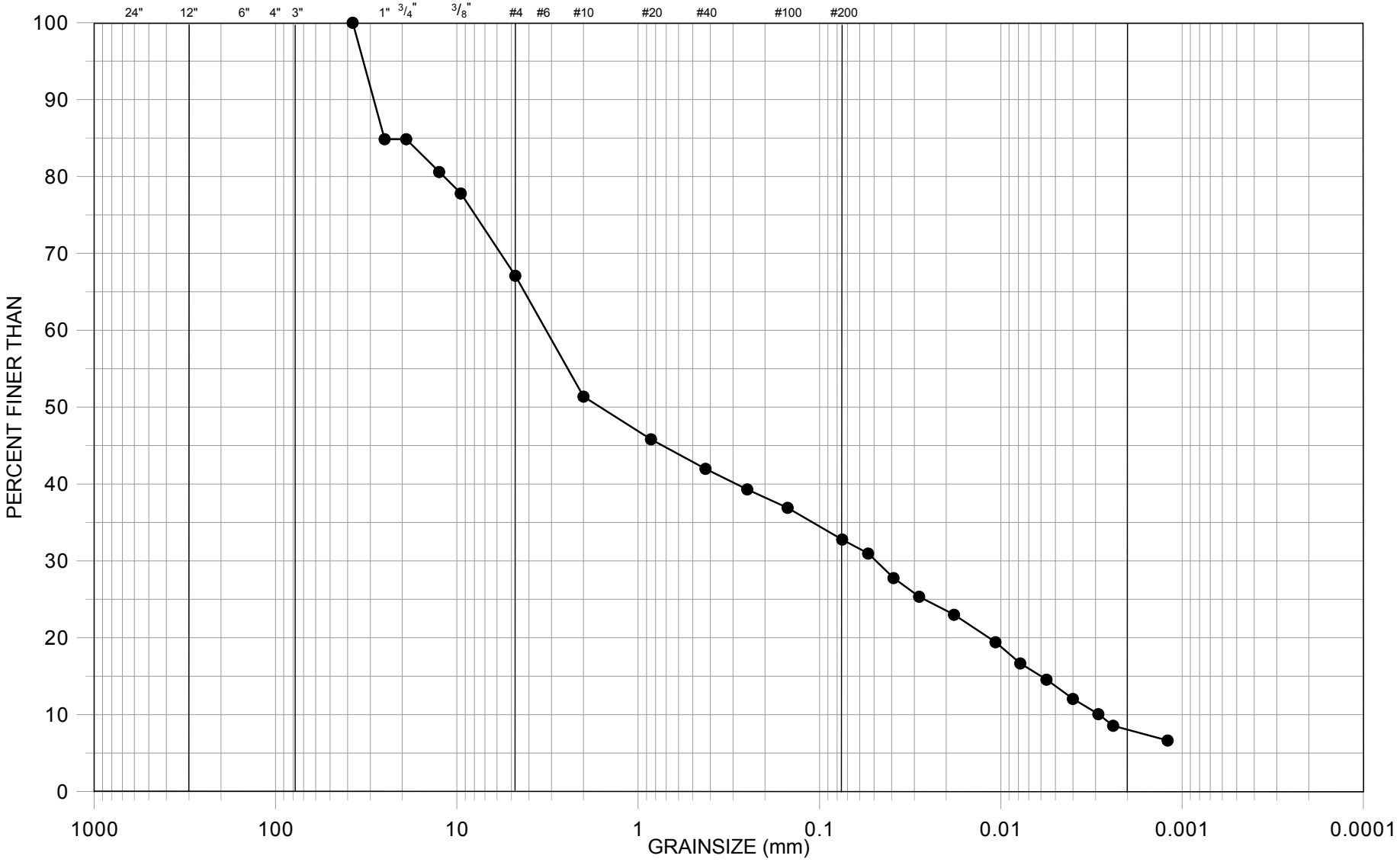
BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

PROJECT: EAGLE GOLD PROJECT
2010 GEOTECHNICAL INVESTIGATION
FACTUAL DATA REPORT

TITLE: GRAINSIZE LABORATORY RESULTS
TP-BGC10-18 (M1)

CLIENT: VICTORIA GOLD CORPORATION

| PROJECT No. | FIG No. | REV. |
|---|---|---|
| 0792-004 | H-12 | 0 |




| BOULDER | COBBLE | GRAVEL | | SAND | | SILT | CLAY |
|---|---|---|---|---|---|---|---|
| | | COARSE | FINE | COARSE | FINE | | |

| SCALE: | DATE: | DRAWN: | DESIGNED: | CHECKED: | APPROVED: |
|---|---|---|---|---|---|
| NTS | NOV 2011 | TD | AJ | AKU | PQ |



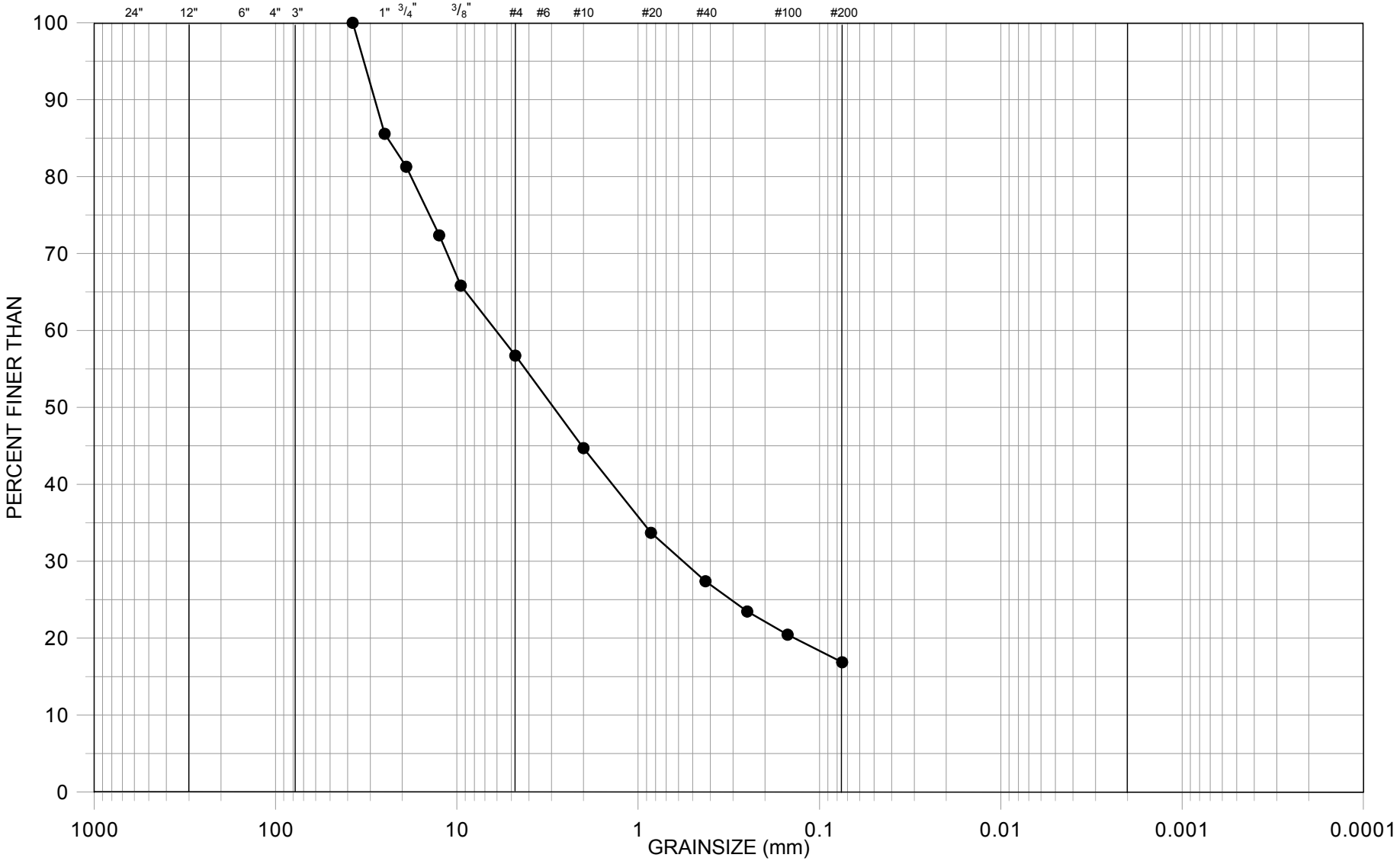
BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

PROJECT: EAGLE GOLD PROJECT
2010 GEOTECHNICAL INVESTIGATION
FACTUAL DATA REPORT

TITLE: GRAINSIZE LABORATORY RESULTS
TP-BGC10-18 (M2)

CLIENT: VICTORIA GOLD CORPORATION

| PROJECT No. | FIG No. | REV. |
|---|---|---|
| 0792-004 | H-13 | 0 |




| BOULDER | COBBLE | GRAVEL | | SAND | | SILT | CLAY |
|---|---|---|---|---|---|---|---|
| | | COARSE | FINE | COARSE | FINE | | |

| SCALE: | DATE: | DRAWN: | DESIGNED: | CHECKED: | APPROVED: |
|---|---|---|---|---|---|
| NTS | NOV 2011 | TD | AJ | AKU | PQ |



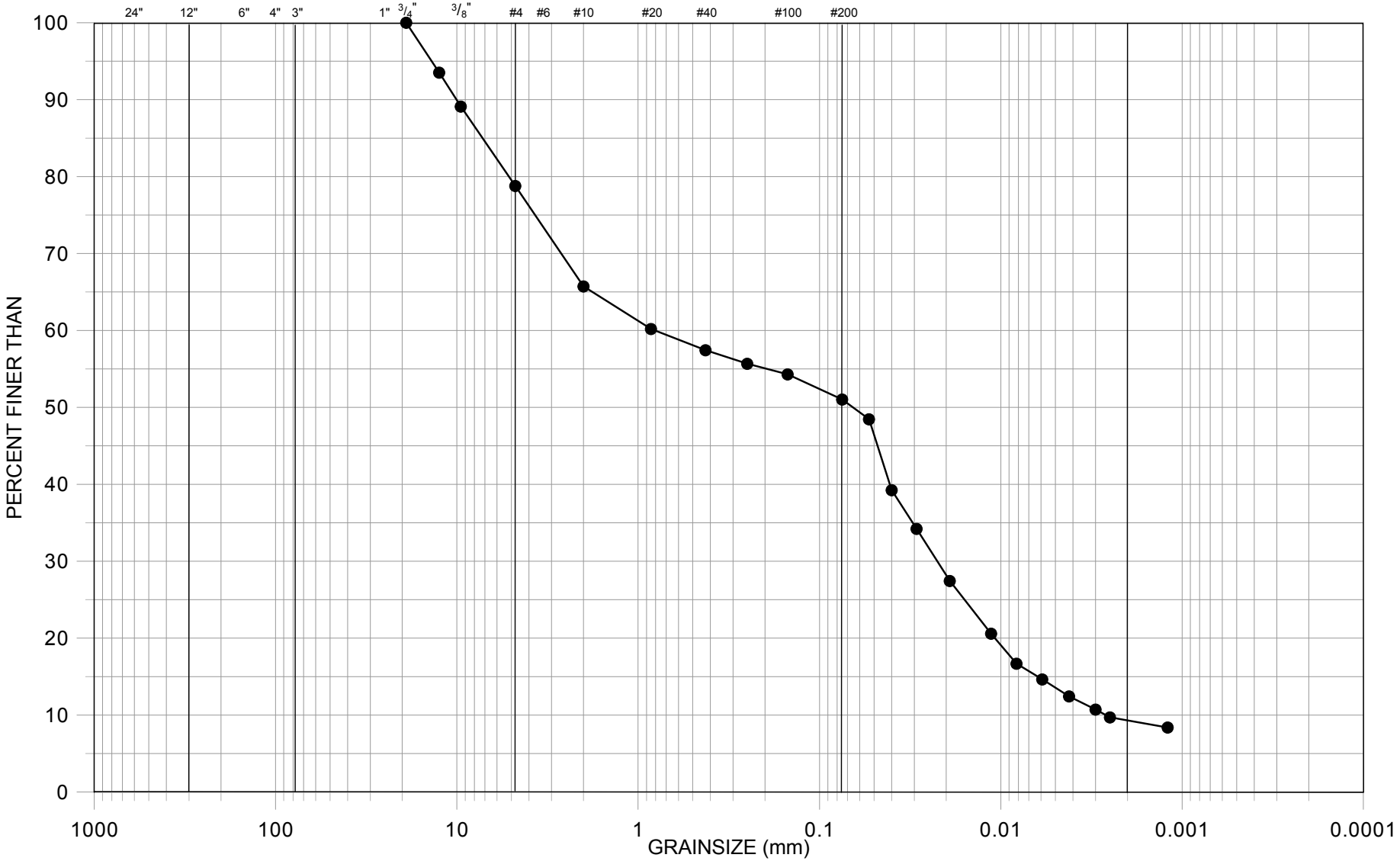
BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

PROJECT: EAGLE GOLD PROJECT
2010 GEOTECHNICAL INVESTIGATION
FACTUAL DATA REPORT

TITLE: GRAINSIZE LABORATORY RESULTS
TP-BGC10-19 (M1)

CLIENT: VICTORIA GOLD CORPORATION

| PROJECT No. | FIG No. | REV. |
|---|---|---|
| 0792-004 | H-14 | 0 |




| BOULDER | COBBLE | GRAVEL | | SAND | | SILT | CLAY |
|---|---|---|---|---|---|---|---|
| | | COARSE | FINE | COARSE | FINE | | |

| SCALE: | DATE: | DRAWN: | DESIGNED: | CHECKED: | APPROVED: |
|---|---|---|---|---|---|
| NTS | NOV 2011 | TD | AJ | AKU | PQ |



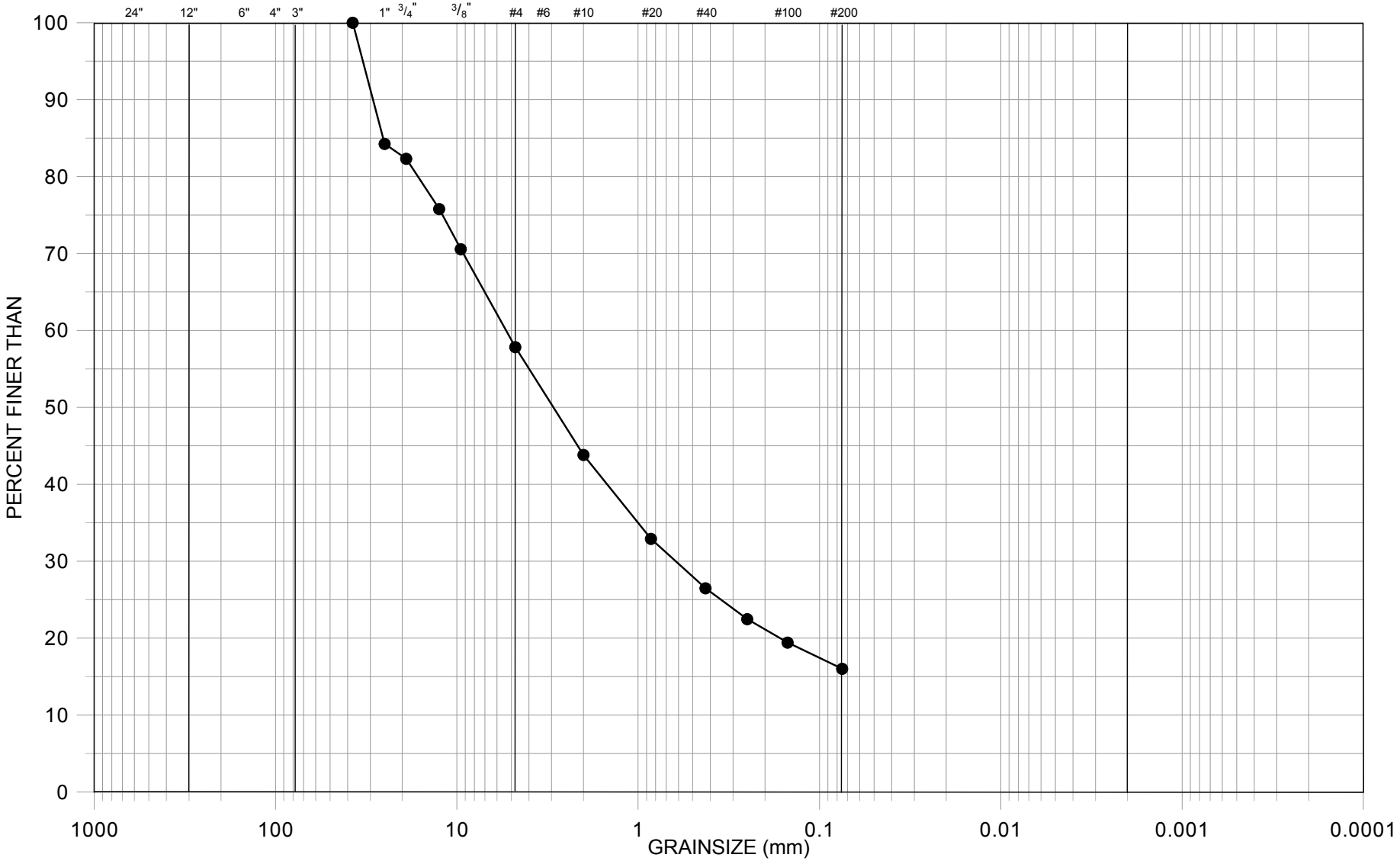
BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

PROJECT: EAGLE GOLD PROJECT
2010 GEOTECHNICAL INVESTIGATION
FACTUAL DATA REPORT

TITLE: GRAINSIZE LABORATORY RESULTS
TP-BGC10-21 (M1)

CLIENT: VICTORIA GOLD CORPORATION

| PROJECT No. | FIG No. | REV. |
|---|---|---|
| 0792-004 | H-15 | 0 |




| BOULDER | COBBLE | GRAVEL | | SAND | | SILT | CLAY |
|---|---|---|---|---|---|---|---|
| | | COARSE | FINE | COARSE | FINE | | |

| SCALE: | DATE: | DRAWN: | DESIGNED: | CHECKED: | APPROVED: |
|---|---|---|---|---|---|
| NTS | NOV 2011 | TD | AJ | AKU | PQ |



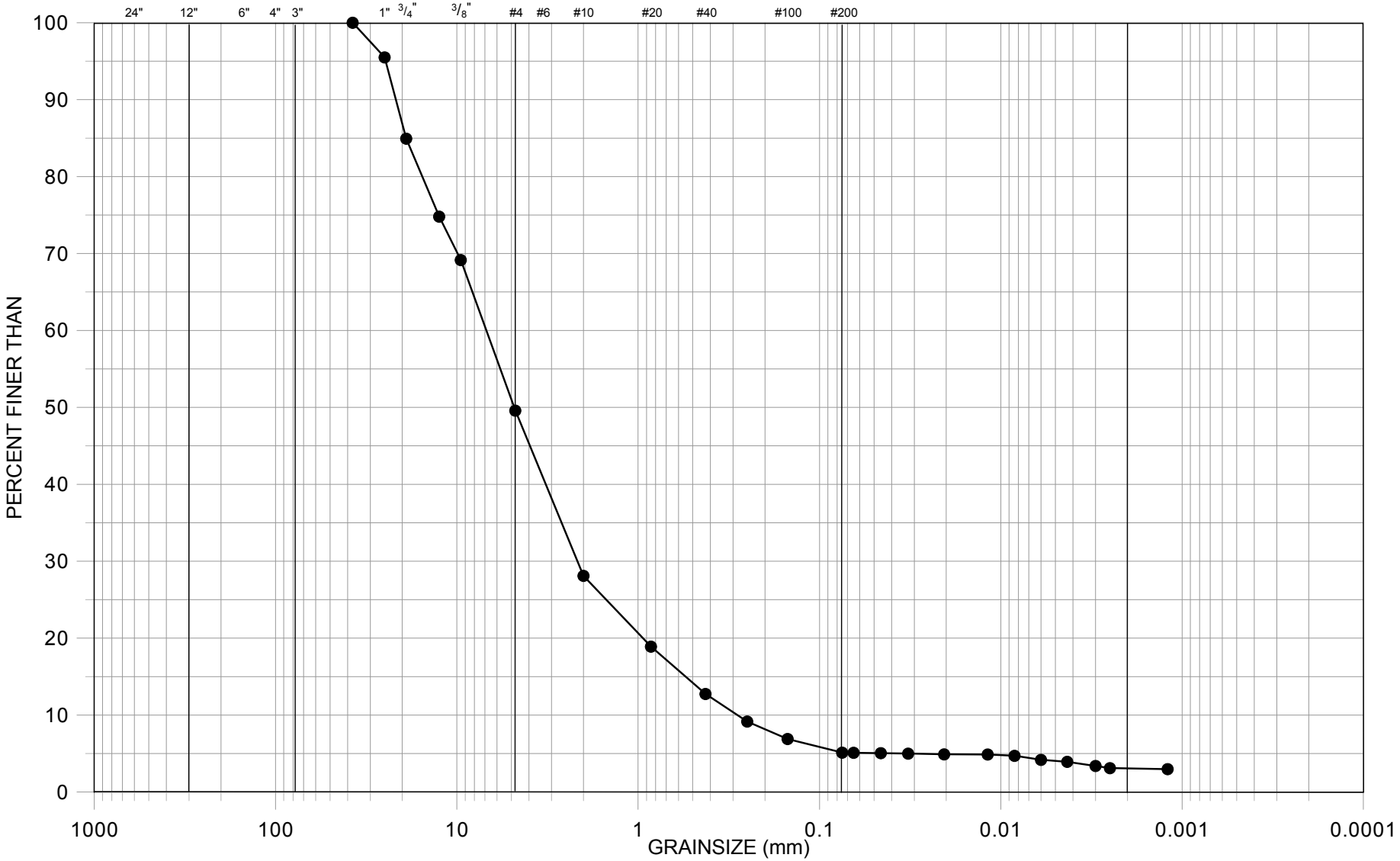
BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

PROJECT: EAGLE GOLD PROJECT
2010 GEOTECHNICAL INVESTIGATION
FACTUAL DATA REPORT

TITLE: GRAINSIZE LABORATORY RESULTS
TP-BGC10-21 (M2)

CLIENT: VICTORIA GOLD CORPORATION

| PROJECT No. | FIG No. | REV. |
|---|---|---|
| 0792-004 | H-16 | 0 |




| BOULDER | COBBLE | GRAVEL | | SAND | | SILT | CLAY |
|---|---|---|---|---|---|---|---|
| | | COARSE | FINE | COARSE | FINE | | |

| SCALE: | DATE: | DRAWN: | DESIGNED: | CHECKED: | APPROVED: |
|---|---|---|---|---|---|
| NTS | NOV 2011 | TD | AJ | AKU | PQ |



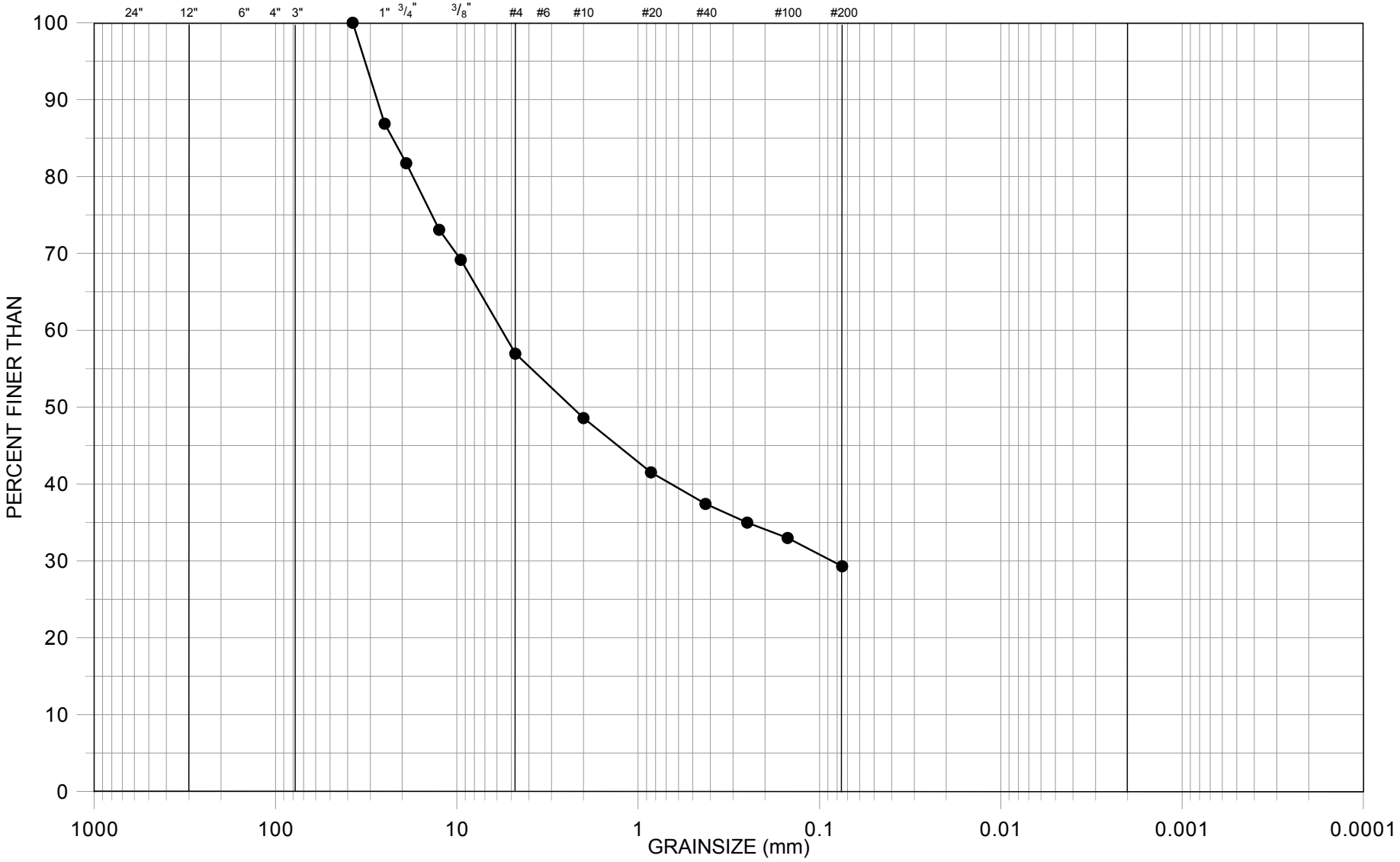
BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

PROJECT: EAGLE GOLD PROJECT
2010 GEOTECHNICAL INVESTIGATION
FACTUAL DATA REPORT

TITLE: GRAINSIZE LABORATORY RESULTS
TP-BGC10-26 (M1)

CLIENT: VICTORIA GOLD CORPORATION

| PROJECT No. | FIG No. | REV. |
|---|---|---|
| 0792-004 | H-17 | 0 |




| BOULDER | COBBLE | GRAVEL | | SAND | | SILT | CLAY |
|---|---|---|---|---|---|---|---|
| | | COARSE | FINE | COARSE | FINE | | |

| SCALE: | DATE: | DRAWN: | DESIGNED: | CHECKED: | APPROVED: |
|---|---|---|---|---|---|
| NTS | NOV 2011 | TD | AJ | AKU | PQ |



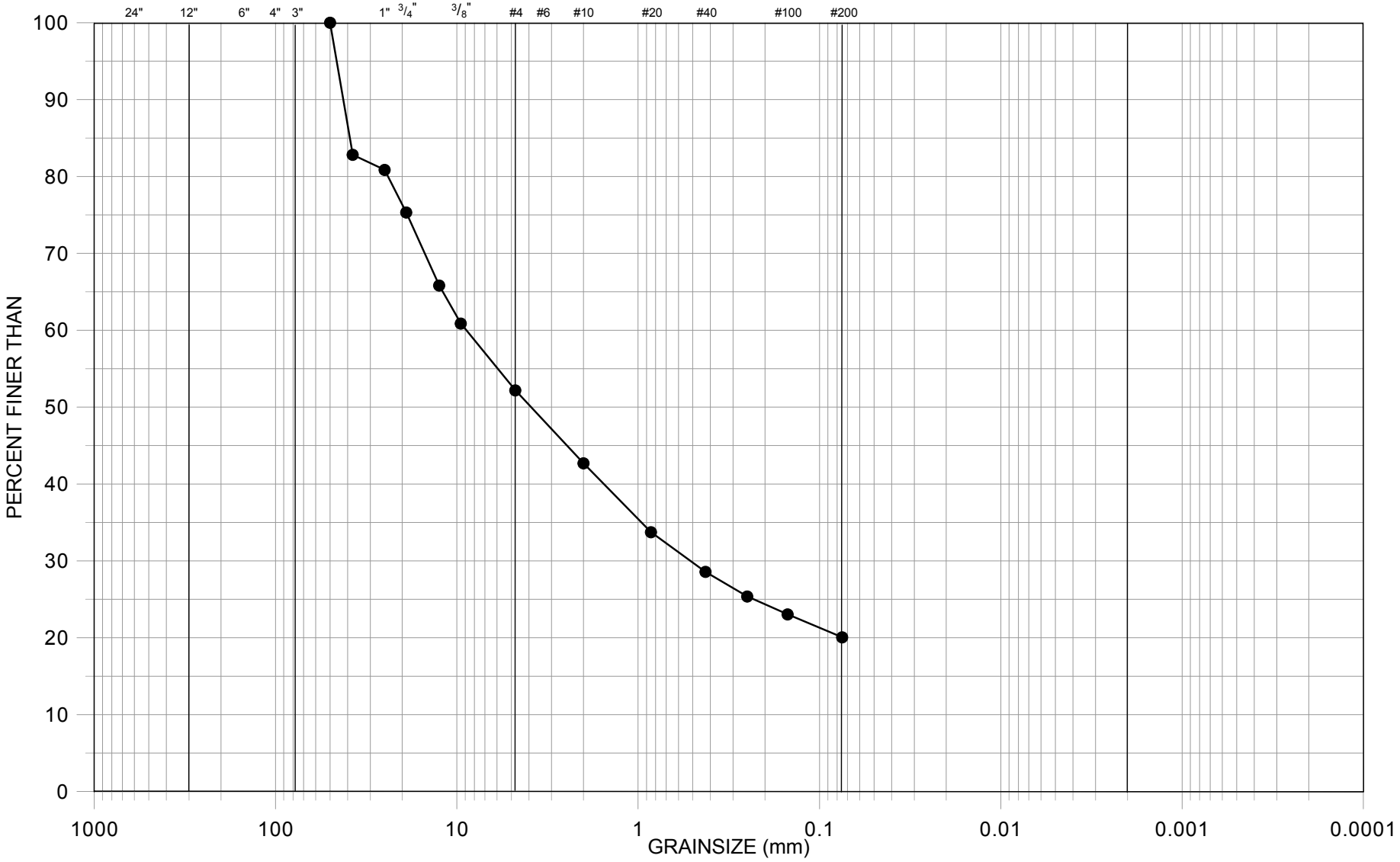
BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

PROJECT: EAGLE GOLD PROJECT
2010 GEOTECHNICAL INVESTIGATION
FACTUAL DATA REPORT

TITLE: GRAINSIZE LABORATORY RESULTS
TP-BGC10-30 (M1)

CLIENT: VICTORIA GOLD CORPORATION

| PROJECT No. | FIG No. | REV. |
|---|---|---|
| 0792-004 | H-18 | 0 |




| BOULDER | COBBLE | GRAVEL | | SAND | | SILT | CLAY |
|---|---|---|---|---|---|---|---|
| | | COARSE | FINE | COARSE | FINE | | |

| SCALE: | DATE: | DRAWN: | DESIGNED: | CHECKED: | APPROVED: |
|---|---|---|---|---|---|
| NTS | NOV 2011 | TD | AJ | AKU | PQ |



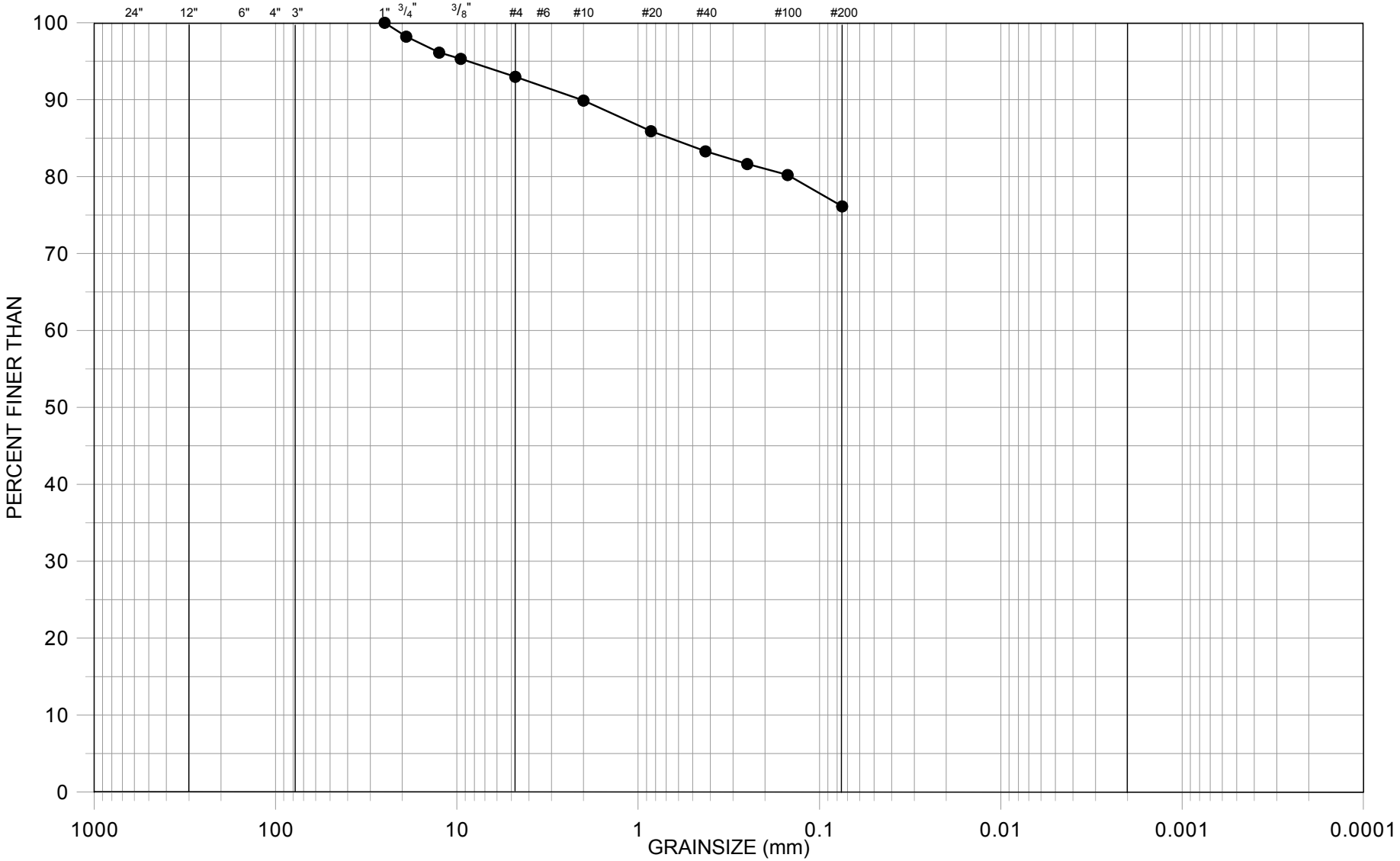
BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

PROJECT: EAGLE GOLD PROJECT
2010 GEOTECHNICAL INVESTIGATION
FACTUAL DATA REPORT

TITLE: GRAINSIZE LABORATORY RESULTS
TP-BGC10-32 (M1)

CLIENT: VICTORIA GOLD CORPORATION

| PROJECT No. | FIG No. | REV. |
|---|---|---|
| 0792-004 | H-19 | 0 |




| BOULDER | COBBLE | GRAVEL | | SAND | | SILT | CLAY |
|---|---|---|---|---|---|---|---|
| | | COARSE | FINE | COARSE | FINE | | |

| SCALE: | DATE: | DRAWN: | DESIGNED: | CHECKED: | APPROVED: |
|---|---|---|---|---|---|
| NTS | NOV 2011 | TD | AJ | AKU | PQ |



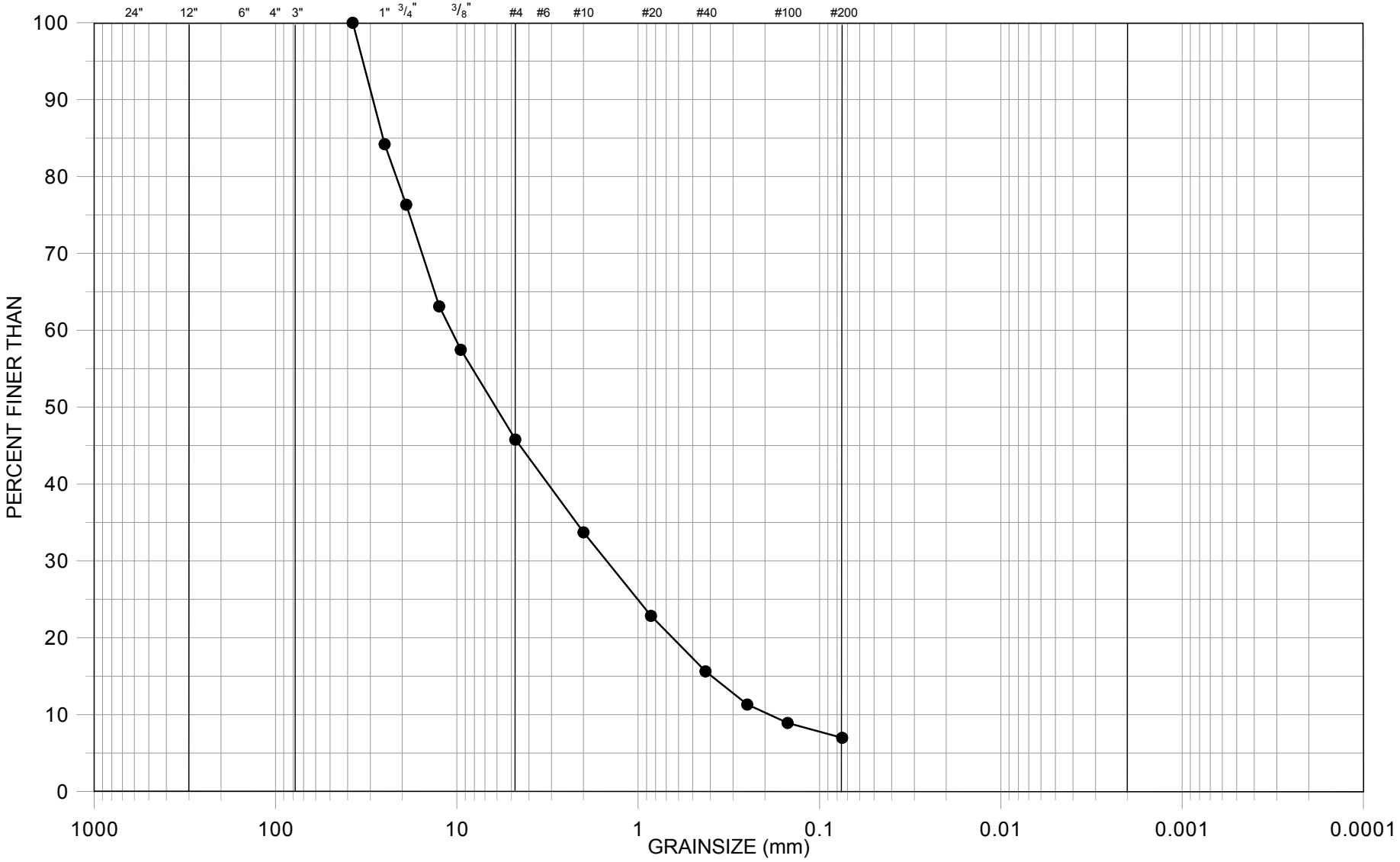
BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

PROJECT: EAGLE GOLD PROJECT
2010 GEOTECHNICAL INVESTIGATION
FACTUAL DATA REPORT

TITLE: GRAINSIZE LABORATORY RESULTS
TP-BGC10-33 (M1)

CLIENT: VICTORIA GOLD CORPORATION

| PROJECT No. | FIG No. | REV. |
|---|---|---|
| 0792-004 | H-20 | 0 |




| BOULDER | COBBLE | GRAVEL | | SAND | | SILT | CLAY |
|---|---|---|---|---|---|---|---|
| | | COARSE | FINE | COARSE | FINE | | |

| SCALE: | DATE: | DRAWN: | DESIGNED: | CHECKED: | APPROVED: |
|---|---|---|---|---|---|
| NTS | NOV 2011 | TD | AJ | AKU | PQ |



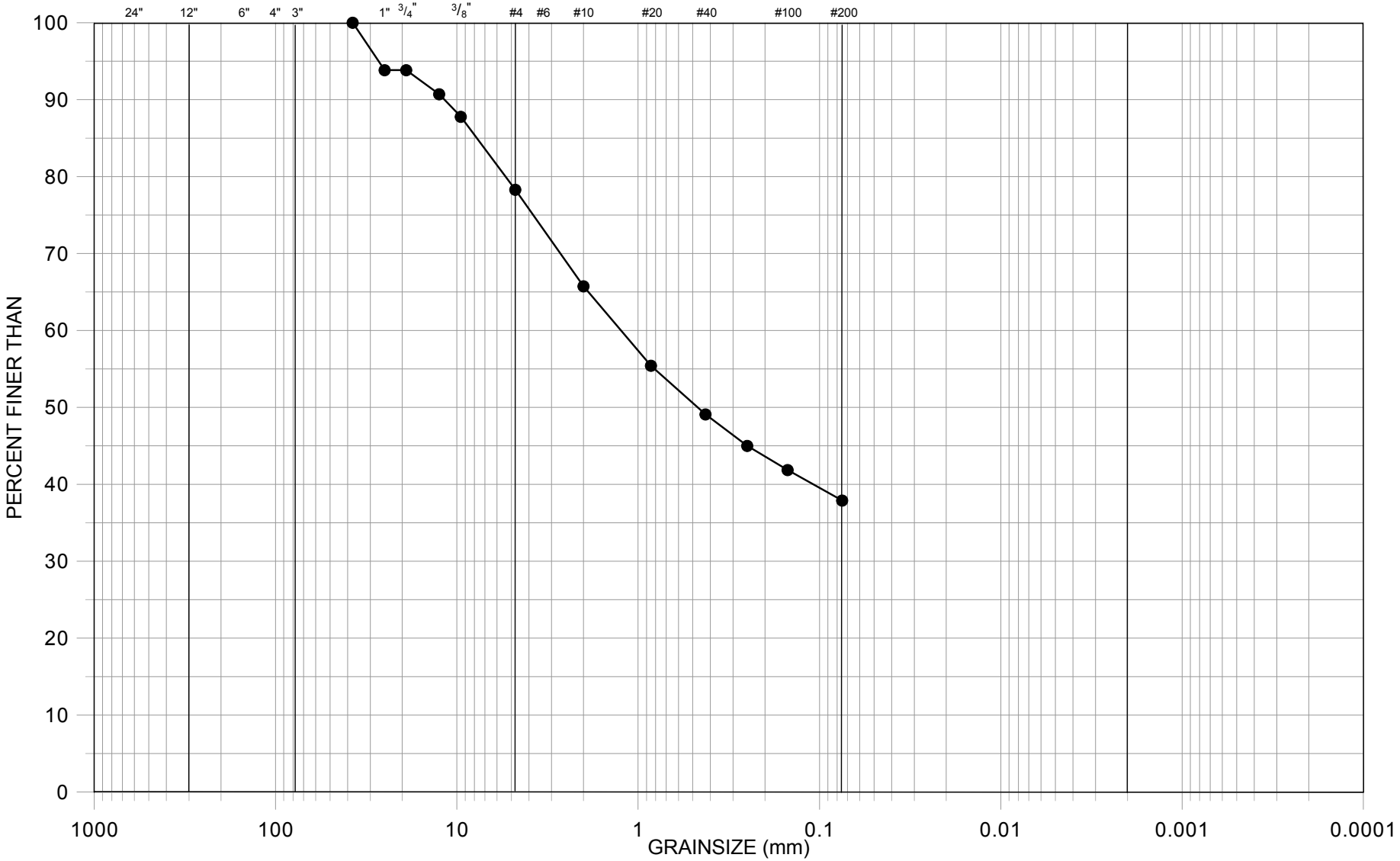
BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

PROJECT: EAGLE GOLD PROJECT
2010 GEOTECHNICAL INVESTIGATION
FACTUAL DATA REPORT

TITLE: GRAINSIZE LABORATORY RESULTS
TP-BGC10-33 (M2)

CLIENT: VICTORIA GOLD CORPORATION

| PROJECT No. | FIG No. | REV. |
|---|---|---|
| 0792-004 | H-21 | 0 |




| BOULDER | COBBLE | GRAVEL | | SAND | | SILT | CLAY |
|---|---|---|---|---|---|---|---|
| | | COARSE | FINE | COARSE | FINE | | |

| SCALE: | DATE: | DRAWN: | DESIGNED: | CHECKED: | APPROVED: |
|---|---|---|---|---|---|
| NTS | NOV 2011 | TD | AJ | AKU | PQ |



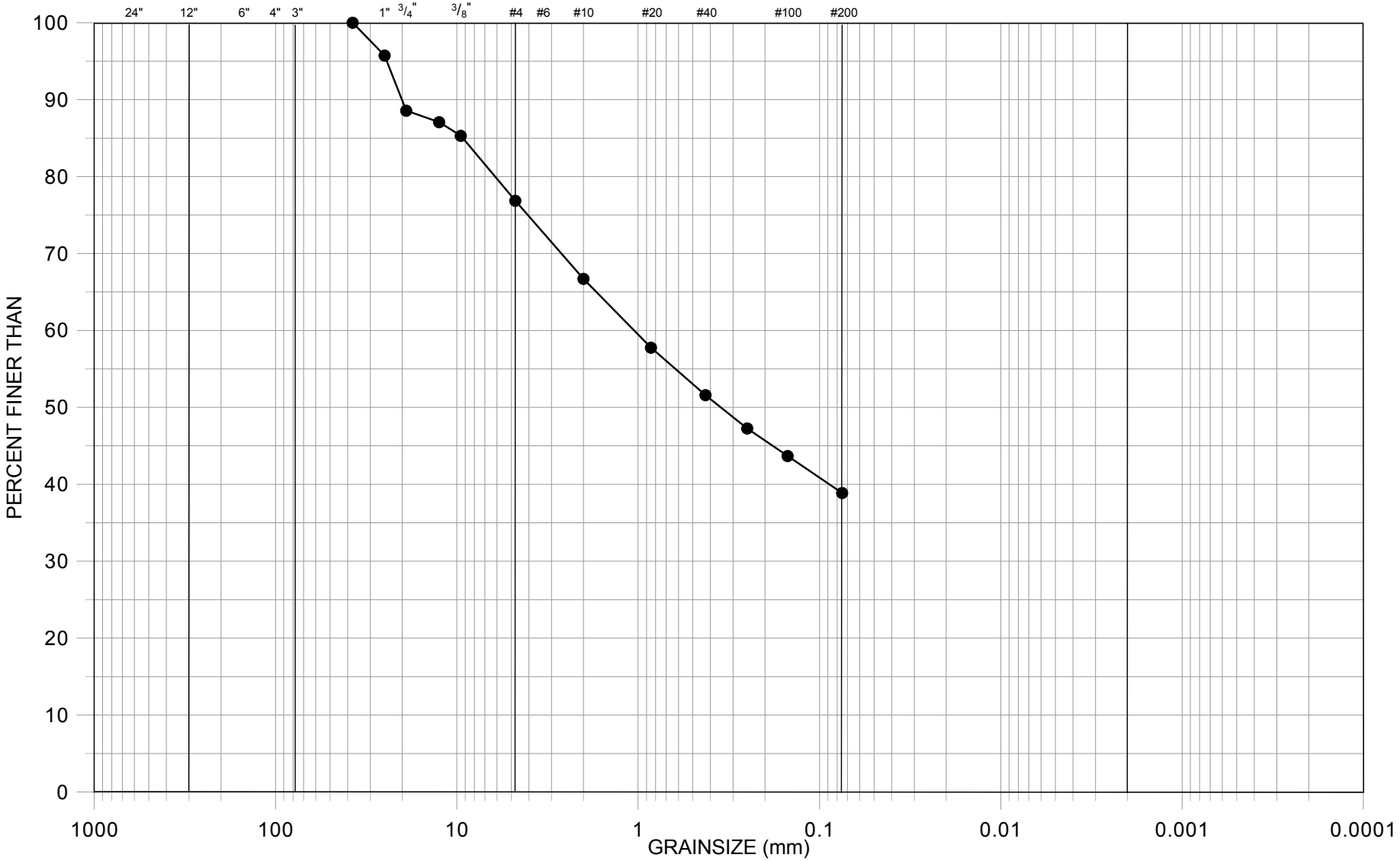
BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

PROJECT: EAGLE GOLD PROJECT
2010 GEOTECHNICAL INVESTIGATION
FACTUAL DATA REPORT

TITLE: GRAINSIZE LABORATORY RESULTS
TP-BGC10-34 (M1)

CLIENT: VICTORIA GOLD CORPORATION

| PROJECT No. | FIG No. | REV. |
|---|---|---|
| 0792-004 | H-22 | 0 |




| BOULDER | COBBLE | GRAVEL | | SAND | | SILT | CLAY |
|---|---|---|---|---|---|---|---|
| | | COARSE | FINE | COARSE | FINE | | |

| SCALE: | DATE: | DRAWN: | DESIGNED: | CHECKED: | APPROVED: |
|---|---|---|---|---|---|
| NTS | NOV 2011 | TD | AJ | AKU | PQ |



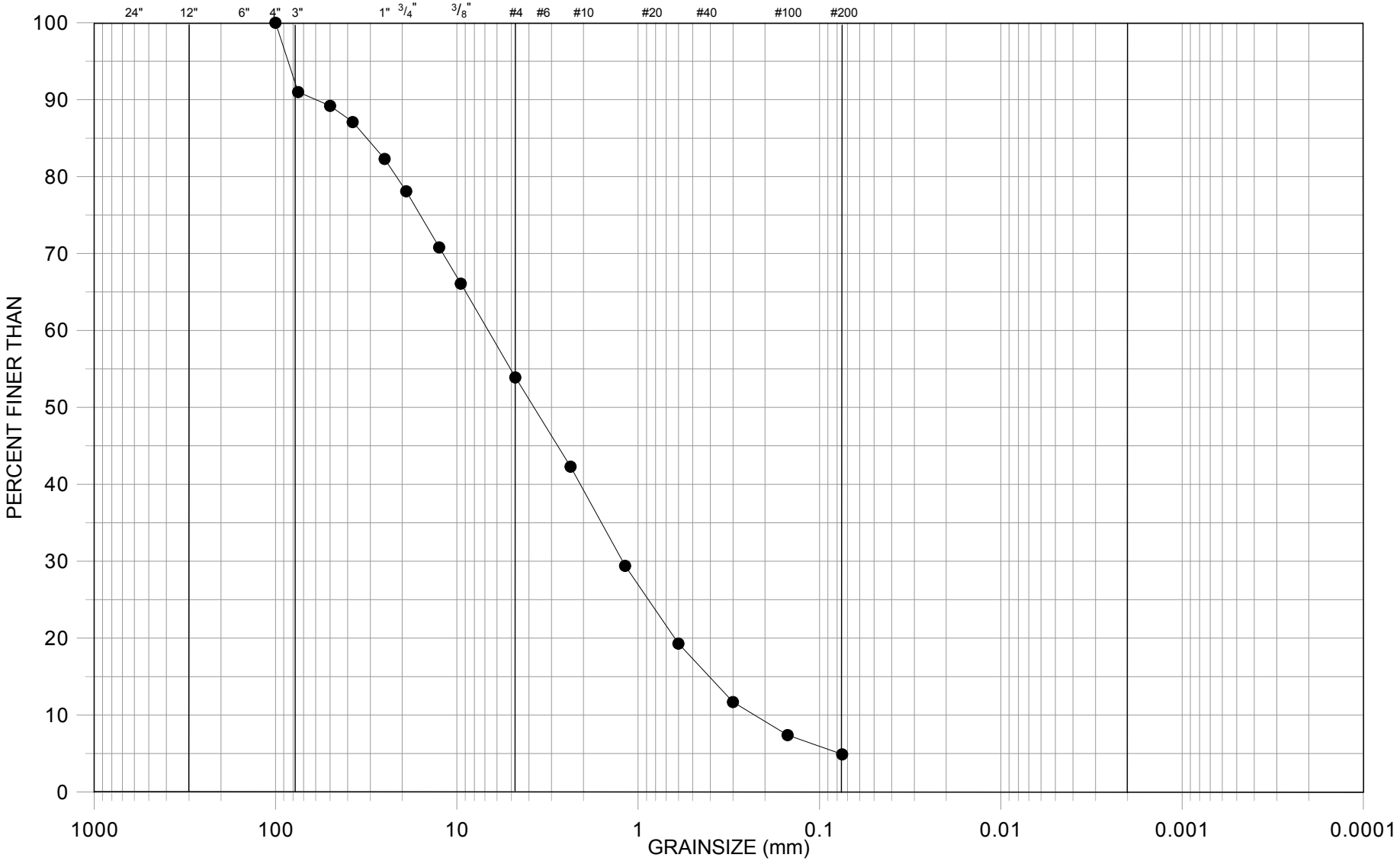
BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

PROJECT: EAGLE GOLD PROJECT
2010 GEOTECHNICAL INVESTIGATION
FACTUAL DATA REPORT

TITLE: GRAINSIZE LABORATORY RESULTS
TP-BGC10-37 (M2)

CLIENT: VICTORIA GOLD CORPORATION

| PROJECT No. | FIG No. | REV. |
|---|---|---|
| 0792-004 | H-23 | 0 |




| BOULDER | COBBLE | GRAVEL | | SAND | | SILT | CLAY |
|---|---|---|---|---|---|---|---|
| | | COARSE | FINE | COARSE | FINE | | |

| SCALE: | DATE: | DRAWN: | DESIGNED: | CHECKED: | APPROVED: |
|---|---|---|---|---|---|
| NTS | NOV 2011 | TD | AJ | AKU | PQ |



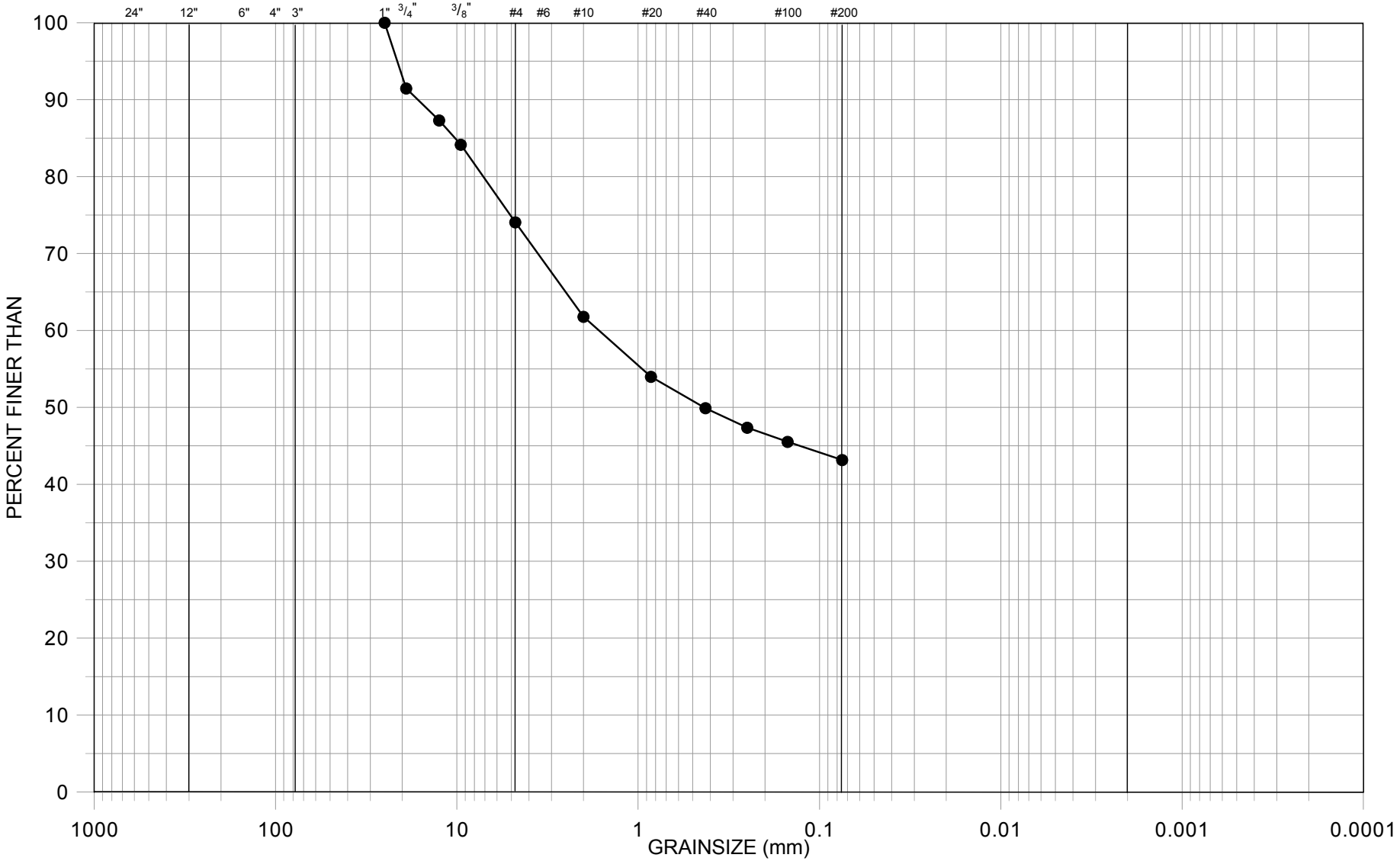
BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

PROJECT: EAGLE GOLD PROJECT
2010 GEOTECHNICAL INVESTIGATION
FACTUAL DATA REPORT

TITLE: GRAINSIZE LABORATORY RESULTS
TP-BGC10-38 (M1)

CLIENT: VICTORIA GOLD CORPORATION

| PROJECT No. | FIG No. | REV. |
|---|---|---|
| 0792-004 | H-24 | 0 |




| BOULDER | COBBLE | GRAVEL | | SAND | | SILT | CLAY |
|---|---|---|---|---|---|---|---|
| | | COARSE | FINE | COARSE | FINE | | |

| SCALE: | DATE: | DRAWN: | DESIGNED: | CHECKED: | APPROVED: |
|---|---|---|---|---|---|
| NTS | NOV 2011 | TD | AJ | AKU | PQ |



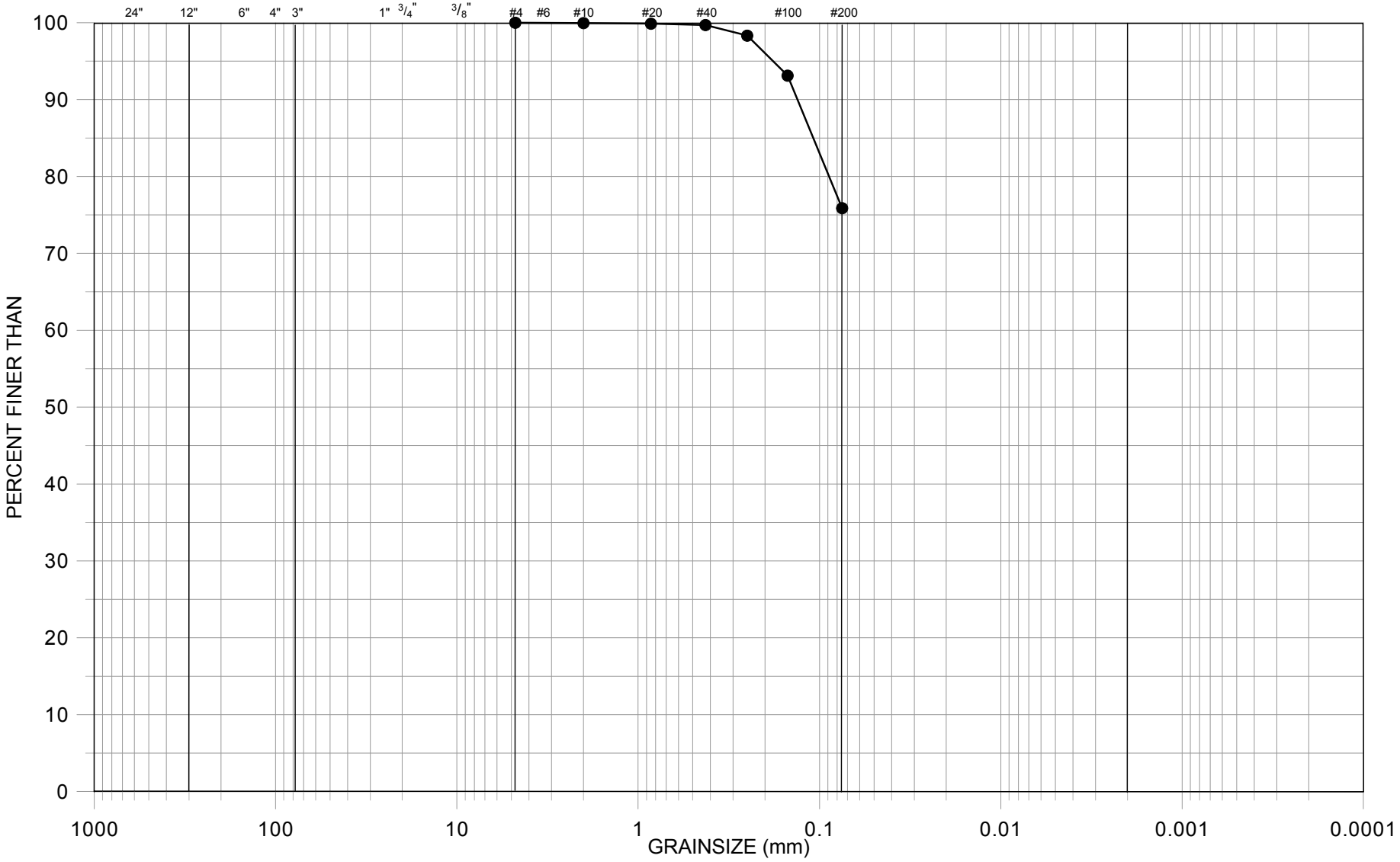
BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

PROJECT: EAGLE GOLD PROJECT
2010 GEOTECHNICAL INVESTIGATION
FACTUAL DATA REPORT

TITLE: GRAINSIZE LABORATORY RESULTS
TP-BGC10-42 (M2)

CLIENT: VICTORIA GOLD CORPORATION

| PROJECT No. | FIG No. | REV. |
|---|---|---|
| 0792-004 | H-25 | 0 |




| BOULDER | COBBLE | GRAVEL | | SAND | | SILT | CLAY |
|---|---|---|---|---|---|---|---|
| | | COARSE | FINE | COARSE | FINE | | |

| SCALE: | DATE: | DRAWN: | DESIGNED: | CHECKED: | APPROVED: |
|---|---|---|---|---|---|
| NTS | NOV 2011 | TD | AJ | AKU | PQ |



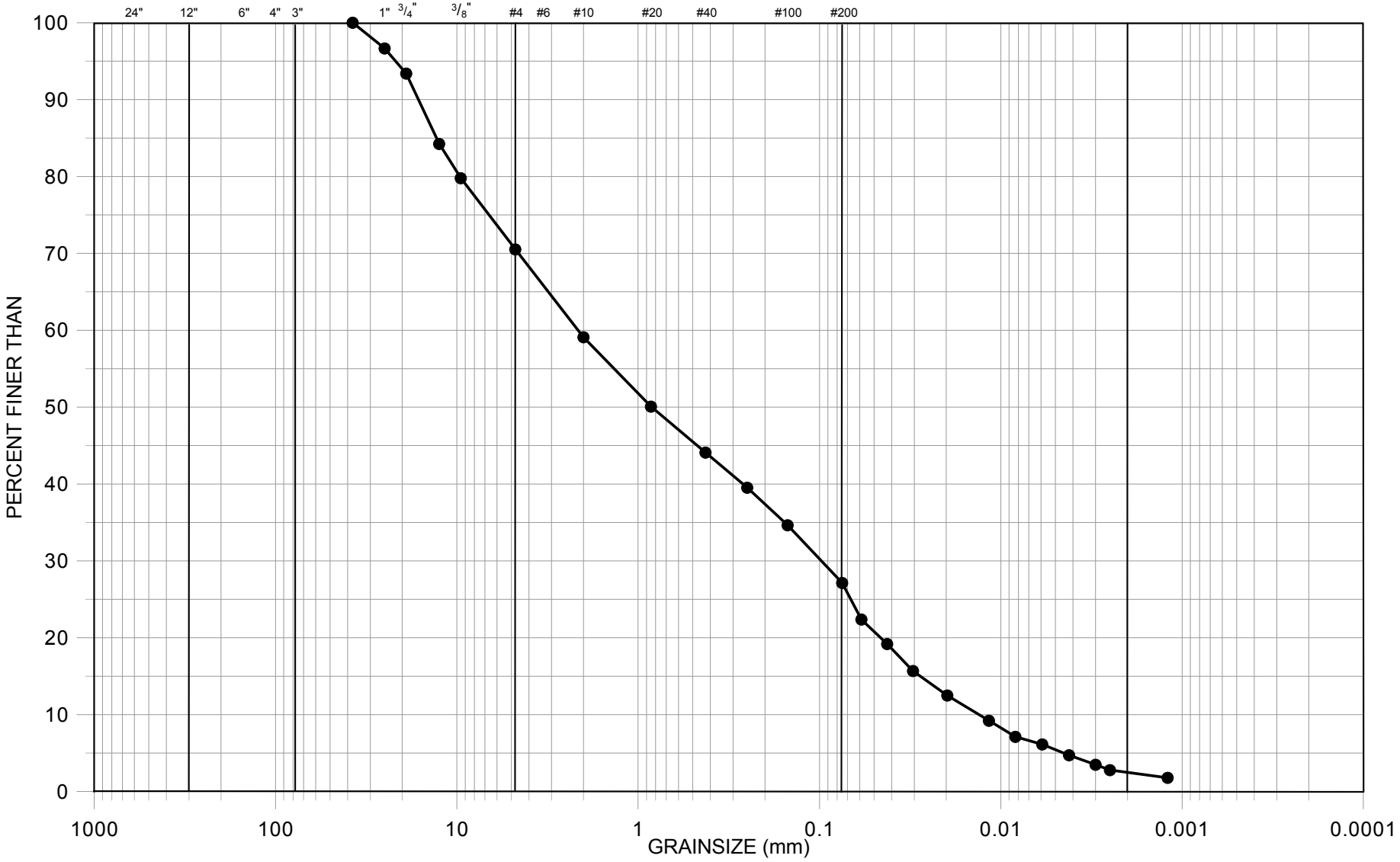
BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

PROJECT: EAGLE GOLD PROJECT
2010 GEOTECHNICAL INVESTIGATION
FACTUAL DATA REPORT

TITLE: GRAINSIZE LABORATORY RESULTS
TP-BGC10-43 (M2)

CLIENT: VICTORIA GOLD CORPORATION

| PROJECT No. | FIG No. | REV. |
|---|---|---|
| 0792-004 | H-26 | 0 |




| BOULDER | COBBLE | GRAVEL | | SAND | | SILT | CLAY |
|---|---|---|---|---|---|---|---|
| | | COARSE | FINE | COARSE | FINE | | |

| SCALE: | DATE: | DRAWN: | DESIGNED: | CHECKED: | APPROVED: |
|---|---|---|---|---|---|
| NTS | NOV 2011 | TD | AJ | AKU | PQ |



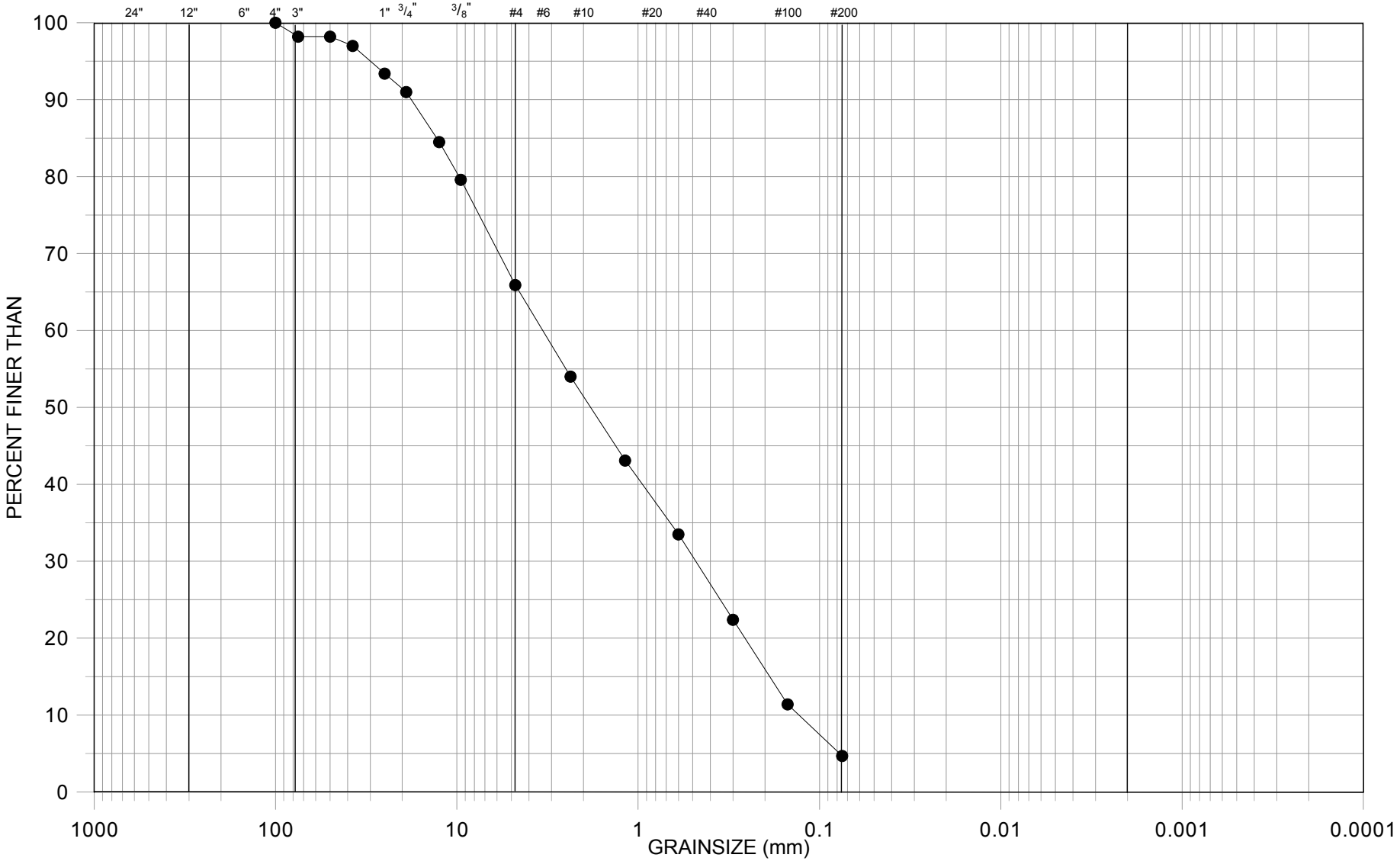
BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

PROJECT: EAGLE GOLD PROJECT
2010 GEOTECHNICAL INVESTIGATION
FACTUAL DATA REPORT

TITLE: GRAINSIZE LABORATORY RESULTS
TP-BGC10-43 (M3)

CLIENT: VICTORIA GOLD CORPORATION

| PROJECT No. | FIG No. | REV. |
|---|---|---|
| 0792-004 | H-27 | 0 |




| BOULDER | COBBLE | GRAVEL | | SAND | | SILT | CLAY |
|---|---|---|---|---|---|---|---|
| | | COARSE | FINE | COARSE | FINE | | |

| SCALE: | DATE: | DRAWN: | DESIGNED: | CHECKED: | APPROVED: |
|---|---|---|---|---|---|
| NTS | NOV 2011 | TD | AJ | AKU | PQ |



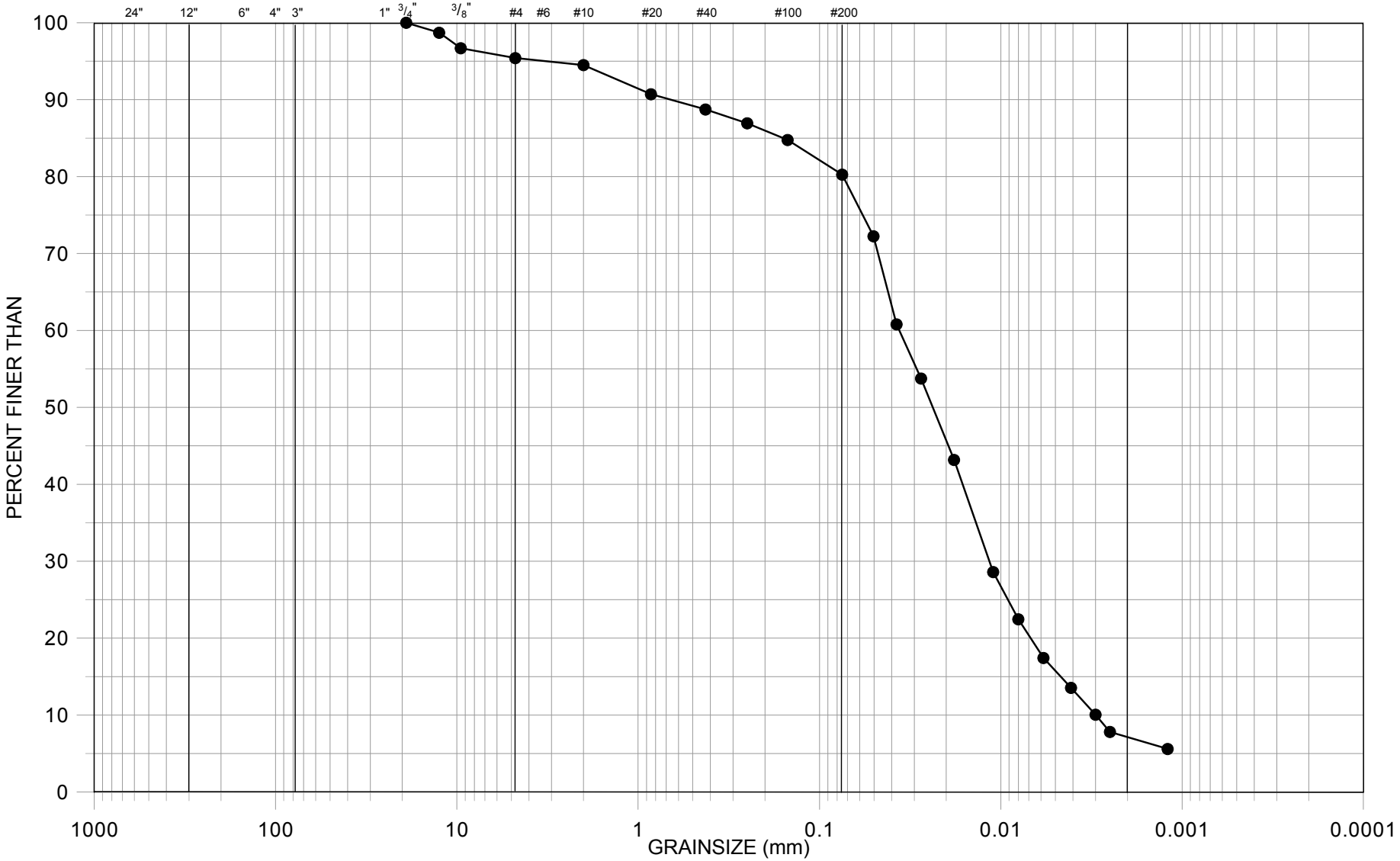
BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

PROJECT: EAGLE GOLD PROJECT
2010 GEOTECHNICAL INVESTIGATION
FACTUAL DATA REPORT

TITLE: GRAINSIZE LABORATORY RESULTS
TP-BGC10-44 (M1)

CLIENT: VICTORIA GOLD CORPORATION

| PROJECT No. | FIG No. | REV. |
|---|---|---|
| 0792-004 | H-28 | 0 |




| BOULDER | COBBLE | GRAVEL | | SAND | | SILT | CLAY |
|---|---|---|---|---|---|---|---|
| | | COARSE | FINE | COARSE | FINE | | |

| SCALE: | DATE: | DRAWN: | DESIGNED: | CHECKED: | APPROVED: |
|---|---|---|---|---|---|
| NTS | NOV 2011 | TD | AJ | AKU | PQ |



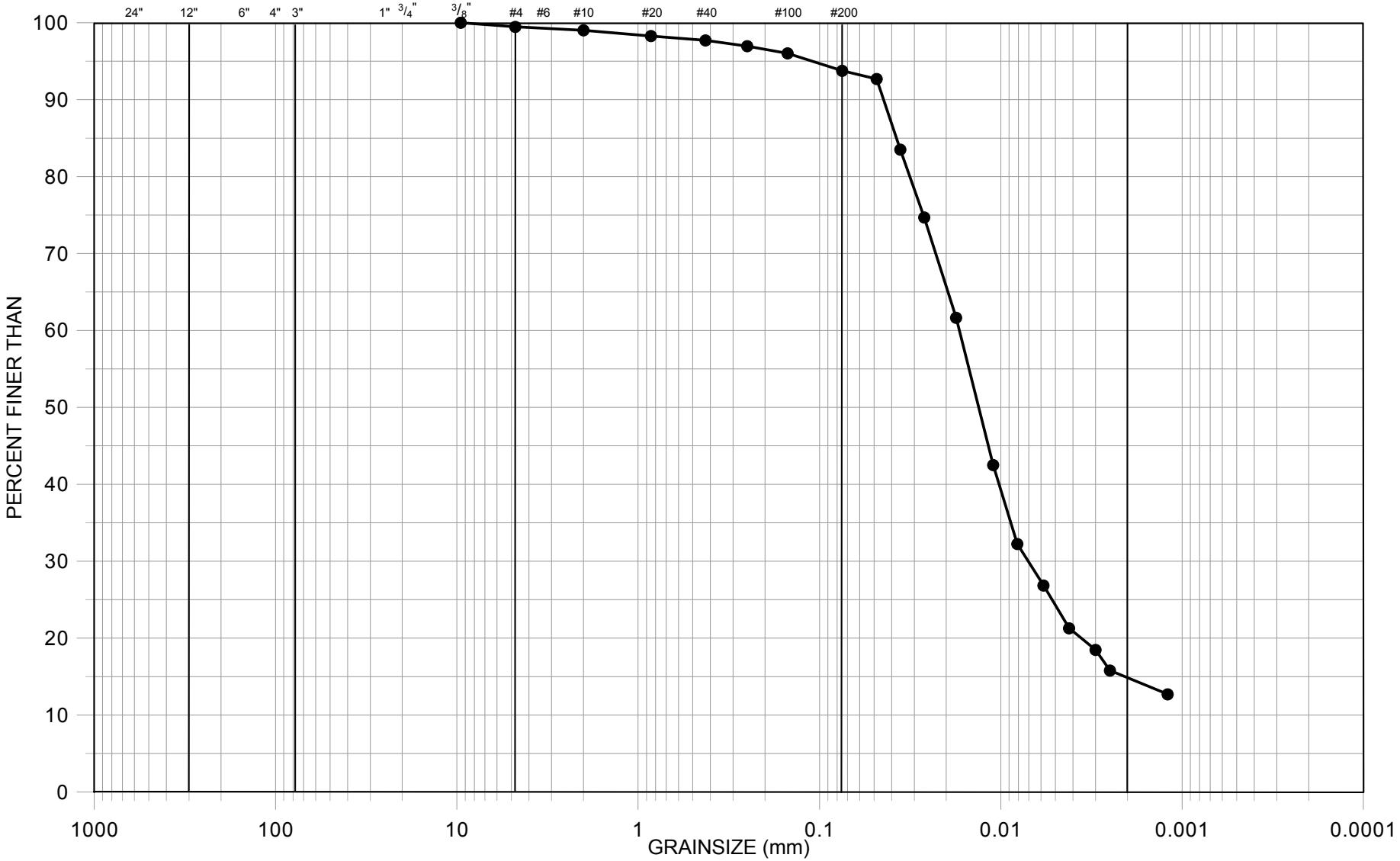
BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

PROJECT: EAGLE GOLD PROJECT
2010 GEOTECHNICAL INVESTIGATION
FACTUAL DATA REPORT

TITLE: GRAINSIZE LABORATORY RESULTS
TP-BGC10-45 (M1)

CLIENT: VICTORIA GOLD CORPORATION

| PROJECT No. | FIG No. | REV. |
|---|---|---|
| 0792-004 | H-29 | 0 |




| BOULDER | COBBLE | GRAVEL | | SAND | | SILT | CLAY |
|---|---|---|---|---|---|---|---|
| | | COARSE | FINE | COARSE | FINE | | |

| SCALE: | DATE: | DRAWN: | DESIGNED: | CHECKED: | APPROVED: |
|---|---|---|---|---|---|
| NTS | NOV 2011 | TD | AJ | AKU | PQ |



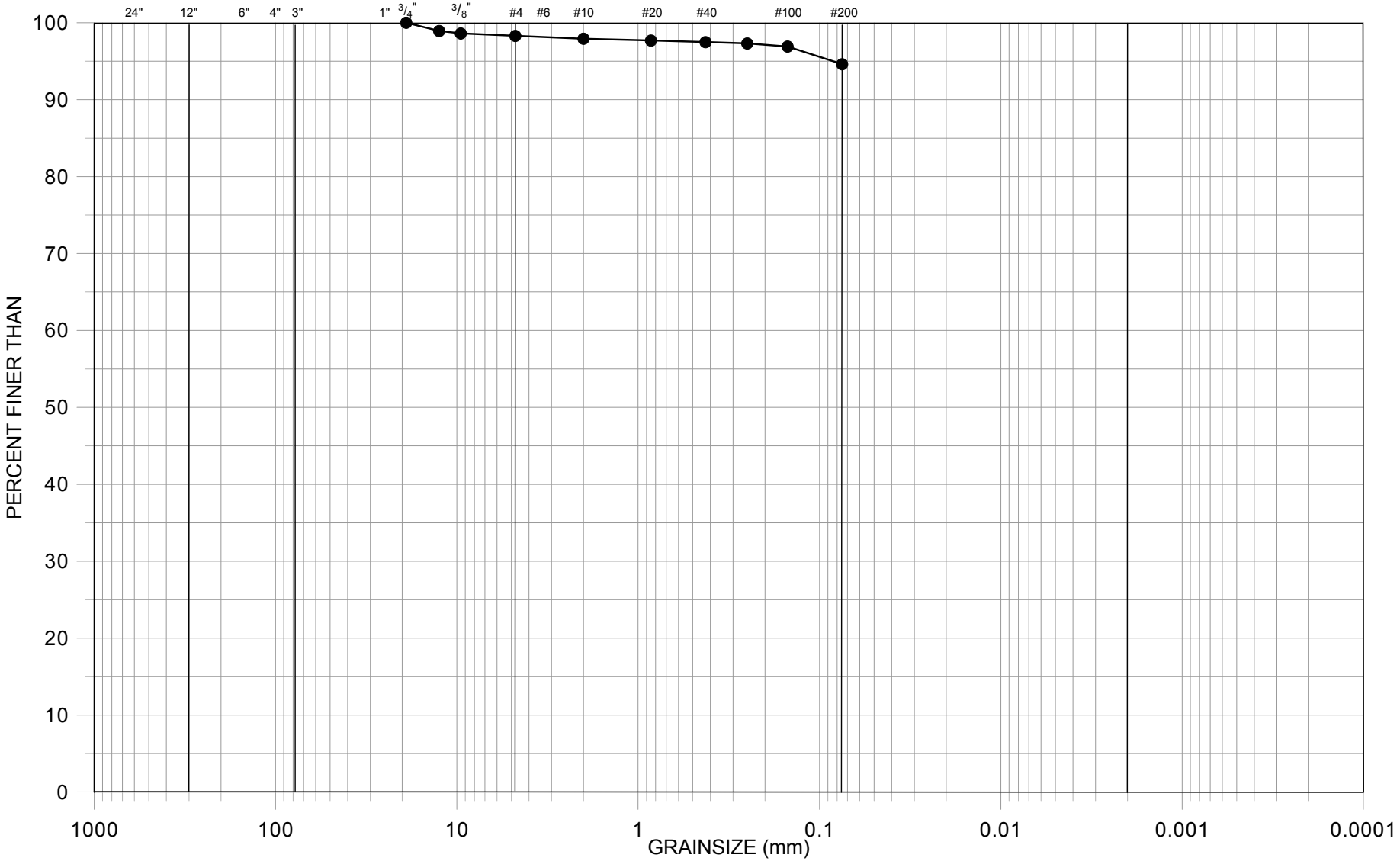
BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

PROJECT: EAGLE GOLD PROJECT
2010 GEOTECHNICAL INVESTIGATION
FACTUAL DATA REPORT

TITLE: GRAINSIZE LABORATORY RESULTS
TP-BGC10-48 (M2)

CLIENT: VICTORIA GOLD CORPORATION

| PROJECT No. | FIG No. | REV. |
|---|---|---|
| 0792-004 | H-30 | 0 |




| BOULDER | COBBLE | GRAVEL | | SAND | | SILT | CLAY |
|---|---|---|---|---|---|---|---|
| | | COARSE | FINE | COARSE | FINE | | |

| SCALE: | DATE: | DRAWN: | DESIGNED: | CHECKED: | APPROVED: |
|---|---|---|---|---|---|
| NTS | NOV 2011 | TD | AJ | AKU | PQ |



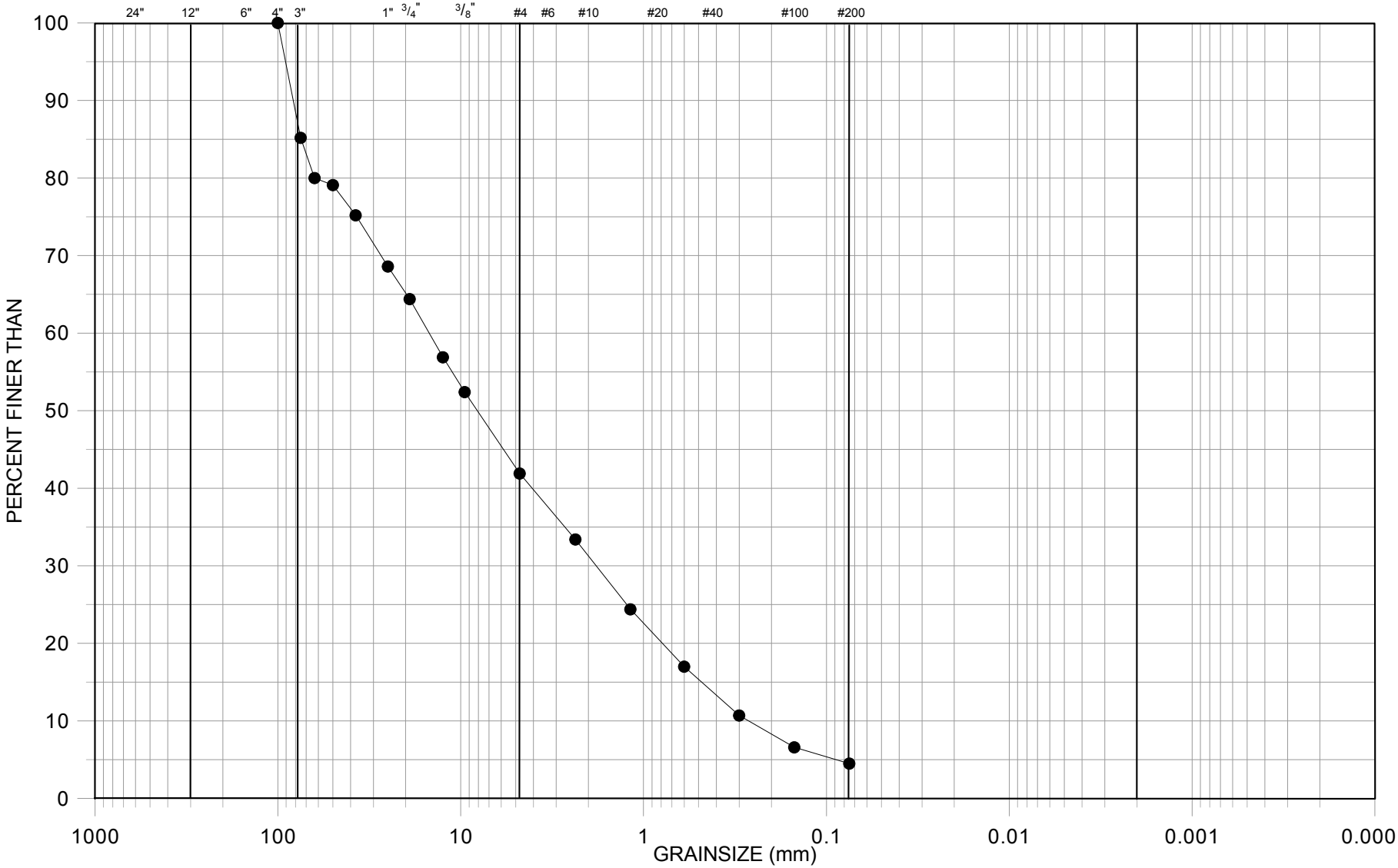
BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

PROJECT: EAGLE GOLD PROJECT
2010 GEOTECHNICAL INVESTIGATION
FACTUAL DATA REPORT

TITLE: GRAINSIZE LABORATORY RESULTS
TP-BGC10-49 (M1)

CLIENT: VICTORIA GOLD CORPORATION

| PROJECT No. | FIG No. | REV. |
|---|---|---|
| 0792-004 | H-31 | 0 |




| BOULDER | COBBLE | GRAVEL | | SAND | | SILT | CLAY |
|---|---|---|---|---|---|---|---|
| | | COARSE | FINE | COARSE | FINE | | |

| SCALE: | DATE: | DRAWN: | DESIGNED: | CHECKED: | APPROVED: |
|---|---|---|---|---|---|
| NTS | NOV 2011 | TD | AJ | AKU | PQ |



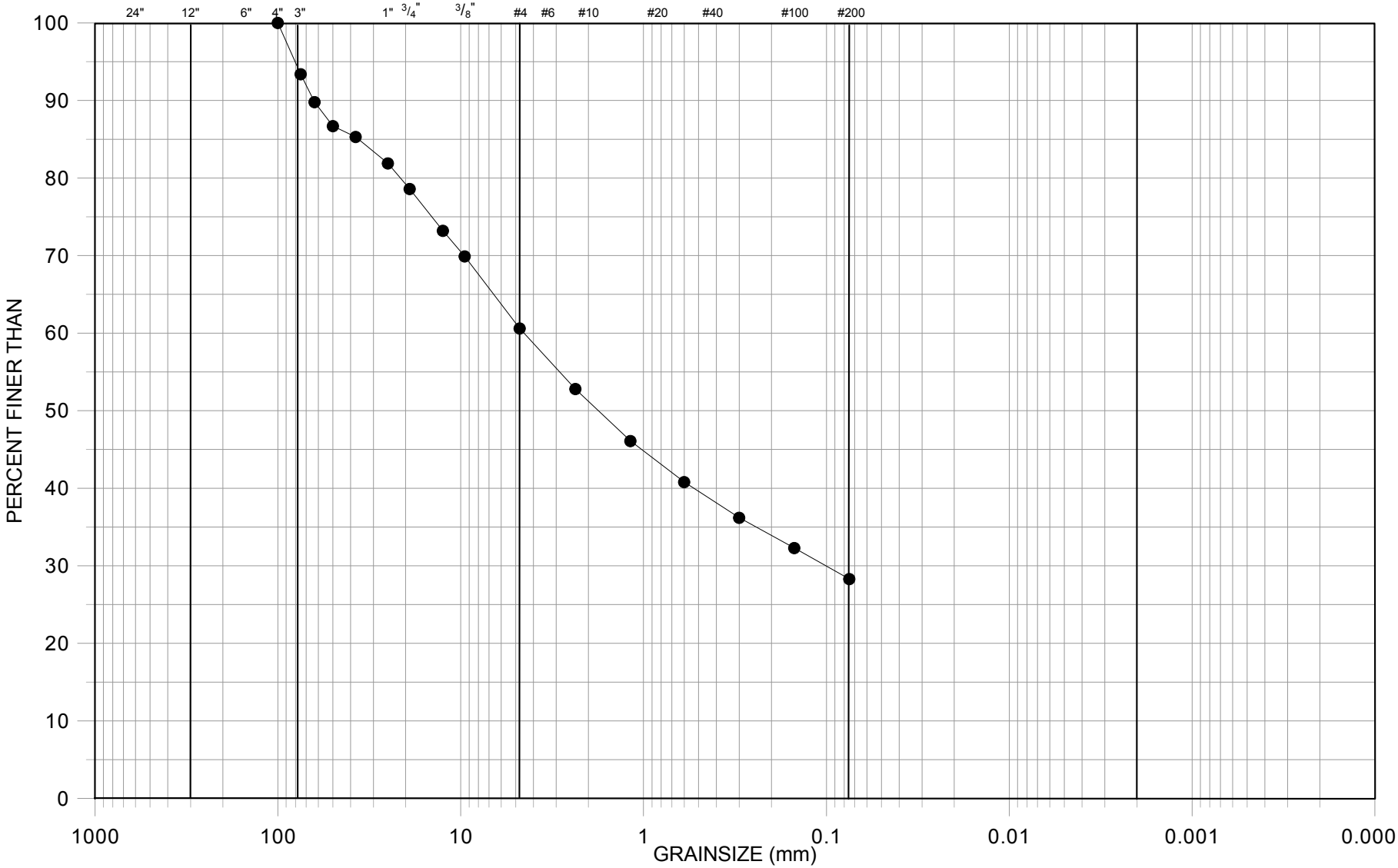
BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

PROJECT: EAGLE GOLD PROJECT
2010 GEOTECHNICAL INVESTIGATION
FACTUAL DATA REPORT

TITLE: GRAINSIZE LABORATORY RESULTS
BORROW MATERIAL ASSESSMENT S3

CLIENT: VICTORIA GOLD CORPORATION

| PROJECT No. | FIG No. | REV. |
|---|---|---|
| 0792-004 | H-32 | 0 |




| BOULDER | COBBLE | GRAVEL | | SAND | | SILT | CLAY |
|---|---|---|---|---|---|---|---|
| | | COARSE | FINE | COARSE | FINE | | |

| SCALE: | DATE: | DRAWN: | DESIGNED: | CHECKED: | APPROVED: |
|---|---|---|---|---|---|
| NTS | NOV 2011 | TD | AJ | AKU | PQ |



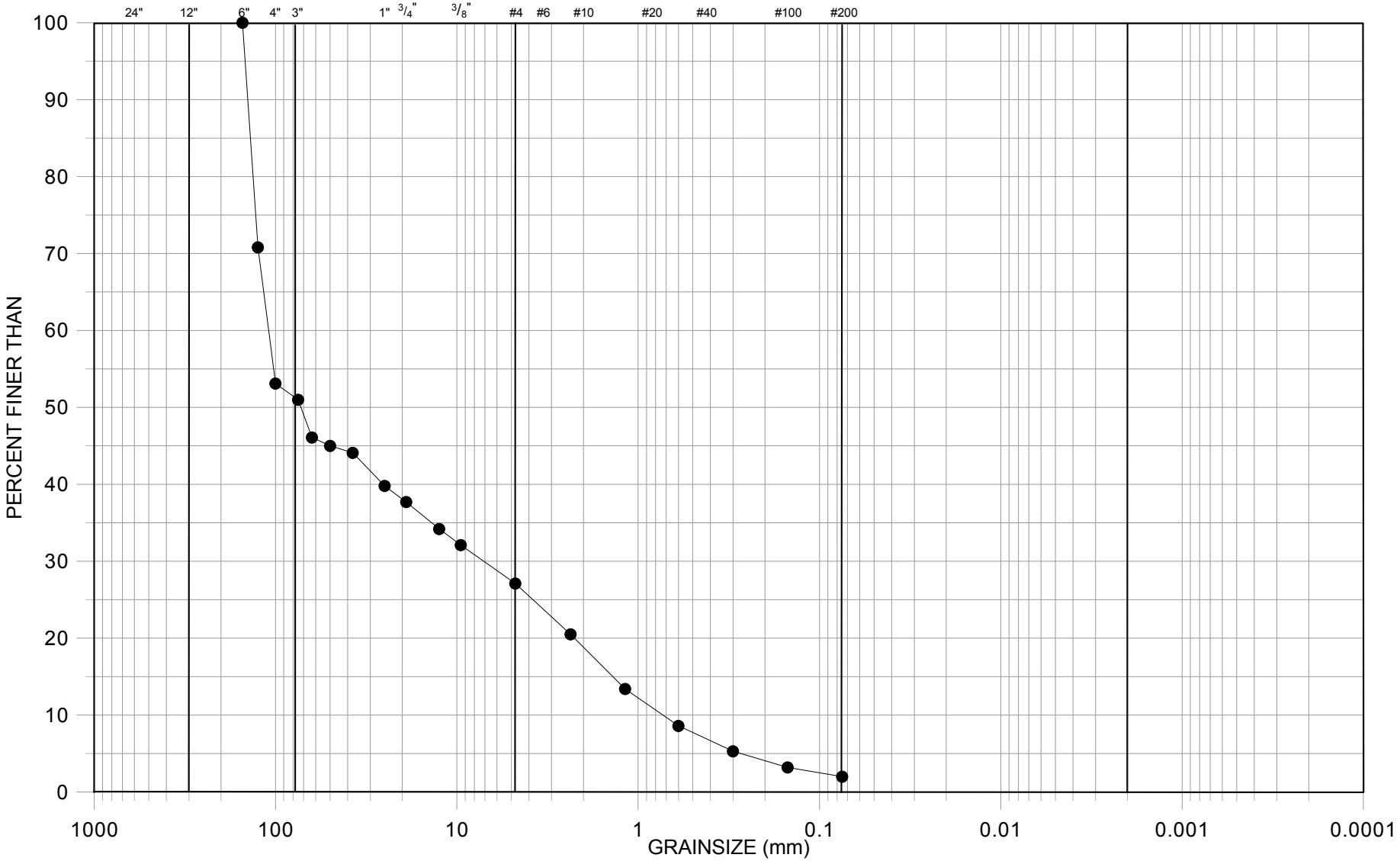
BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

PROJECT: EAGLE GOLD PROJECT
2010 GEOTECHNICAL INVESTIGATION
FACTUAL DATA REPORT

TITLE: GRAINSIZE LABORATORY RESULTS
BORROW MATERIAL ASSESSMENT S4

CLIENT: VICTORIA GOLD CORPORATION

| PROJECT No. | FIG No. | REV. |
|---|---|---|
| 0792-004 | H-33 | 0 |




| BOULDER | COBBLE | GRAVEL | | SAND | | SILT | CLAY |
|---|---|---|---|---|---|---|---|
| | | COARSE | FINE | COARSE | FINE | | |

| SCALE: | DATE: | DRAWN: | DESIGNED: | CHECKED: | APPROVED: |
|---|---|---|---|---|---|
| NTS | NOV 2011 | TD | AJ | AKU | PQ |



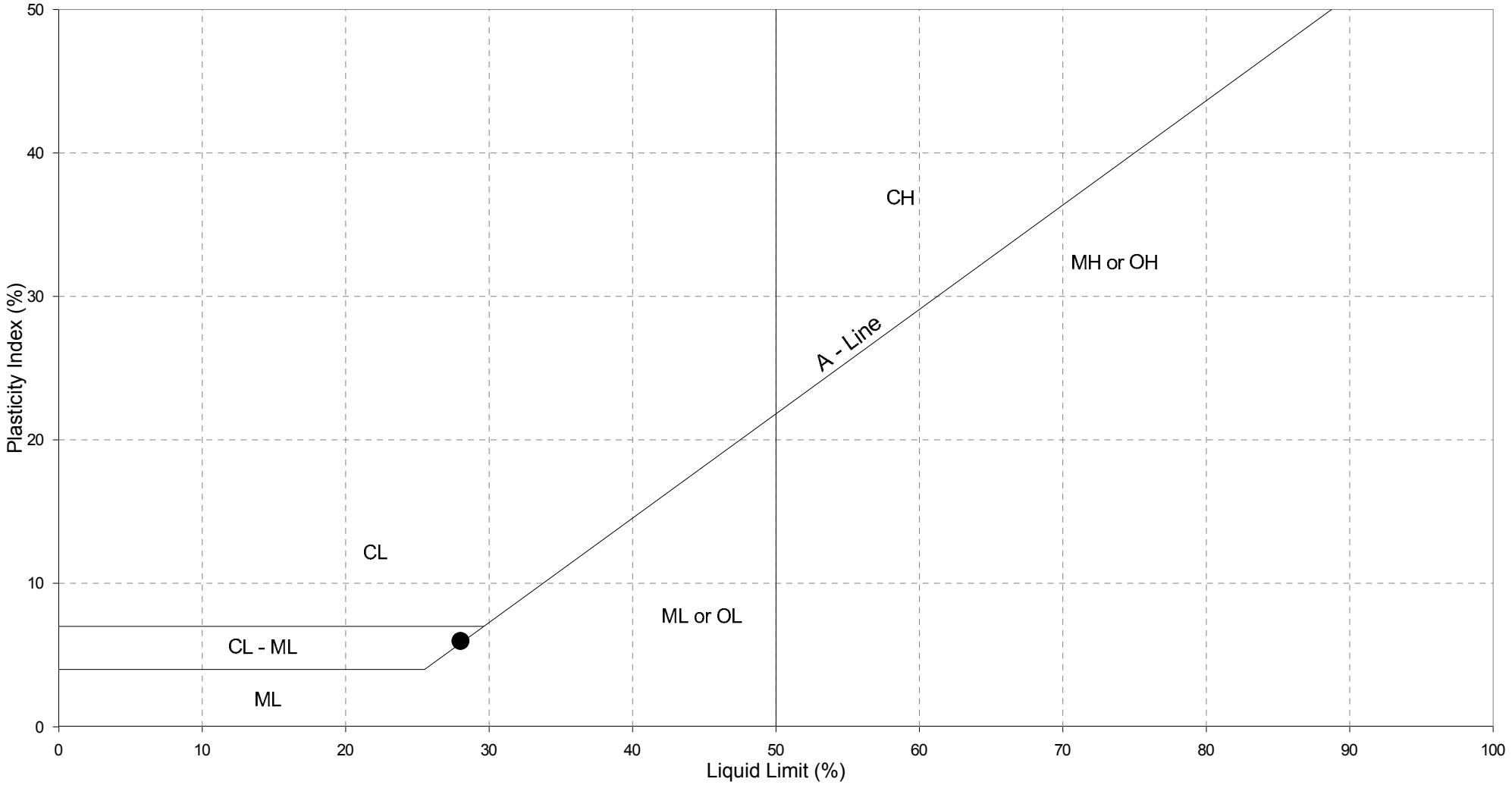
BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

PROJECT: EAGLE GOLD PROJECT
2010 GEOTECHNICAL INVESTIGATION
FACTUAL DATA REPORT

TITLE: GRAINSIZE LABORATORY RESULTS
BORROW MATERIAL ASSESSMENT S8

CLIENT: VICTORIA GOLD CORPORATION

| PROJECT No. | FIG No. | REV. |
|---|---|---|
| 0792-004 | H-34 | 0 |




| SCALE: | DATE: | DRAWN: | DESIGNED: | CHECKED: | APPROVED: |
|---|---|---|---|---|---|
| NTS | NOV 2011 | TD | AJ | AKU | PQ |



BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

PROJECT: EAGLE GOLD PROJECT
2010 GEOTECHNICAL INVESTIGATION
FACTUAL DATA REPORT

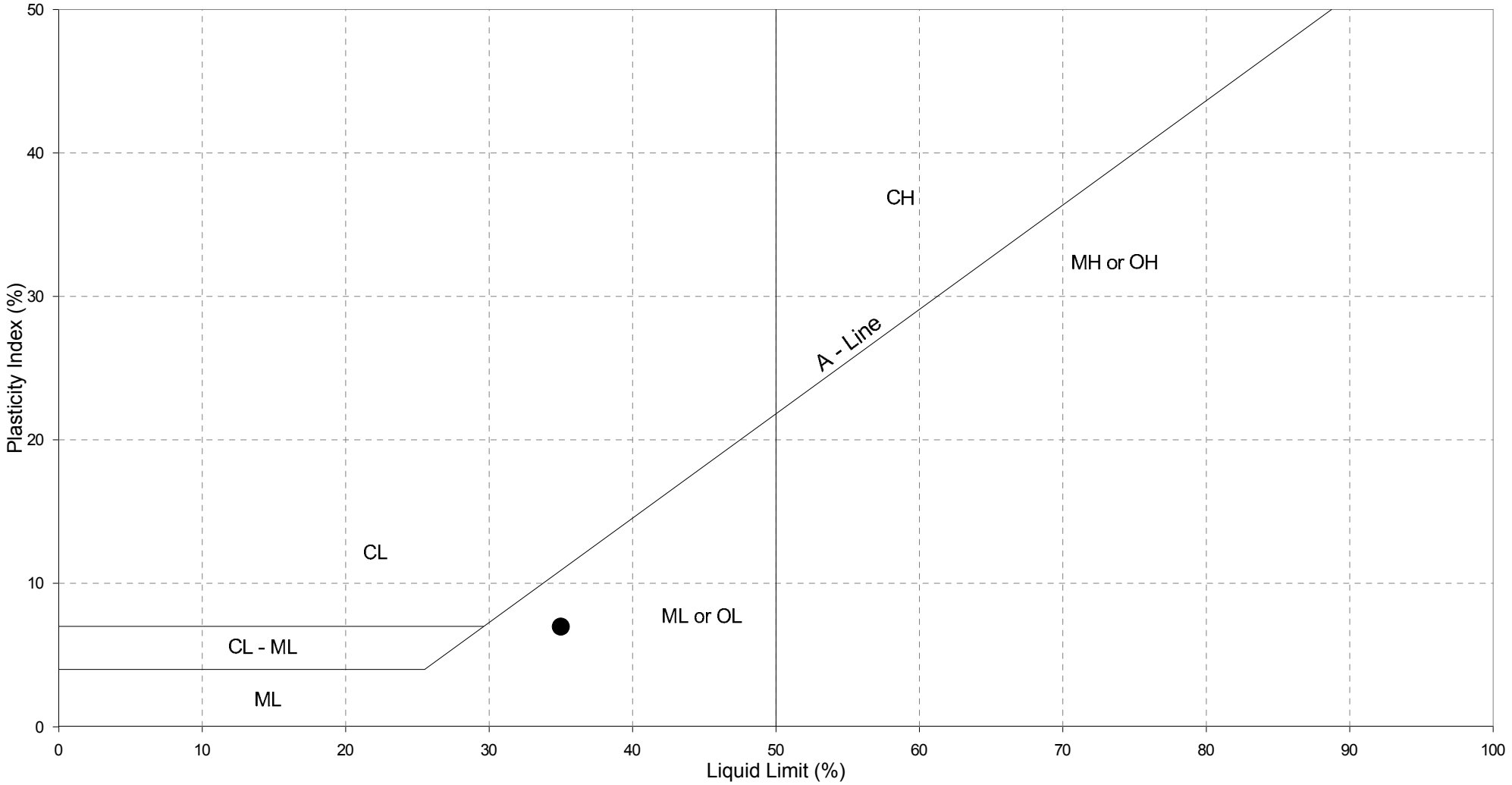
TITLE: PLASTICITY CHART
BH-BGC10-14B (G2)

CLIENT: VICTORIA GOLD CORPORATION

PROJECT No. 0792-004

FIG No. H-35

REV. 0




| SCALE: | DATE: | DRAWN: | DESIGNED: | CHECKED: | APPROVED: |
|---|---|---|---|---|---|
| NTS | NOV 2011 | TD | AJ | AKU | PQ |



BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

PROJECT: EAGLE GOLD PROJECT
2010 GEOTECHNICAL INVESTIGATION
FACTUAL DATA REPORT

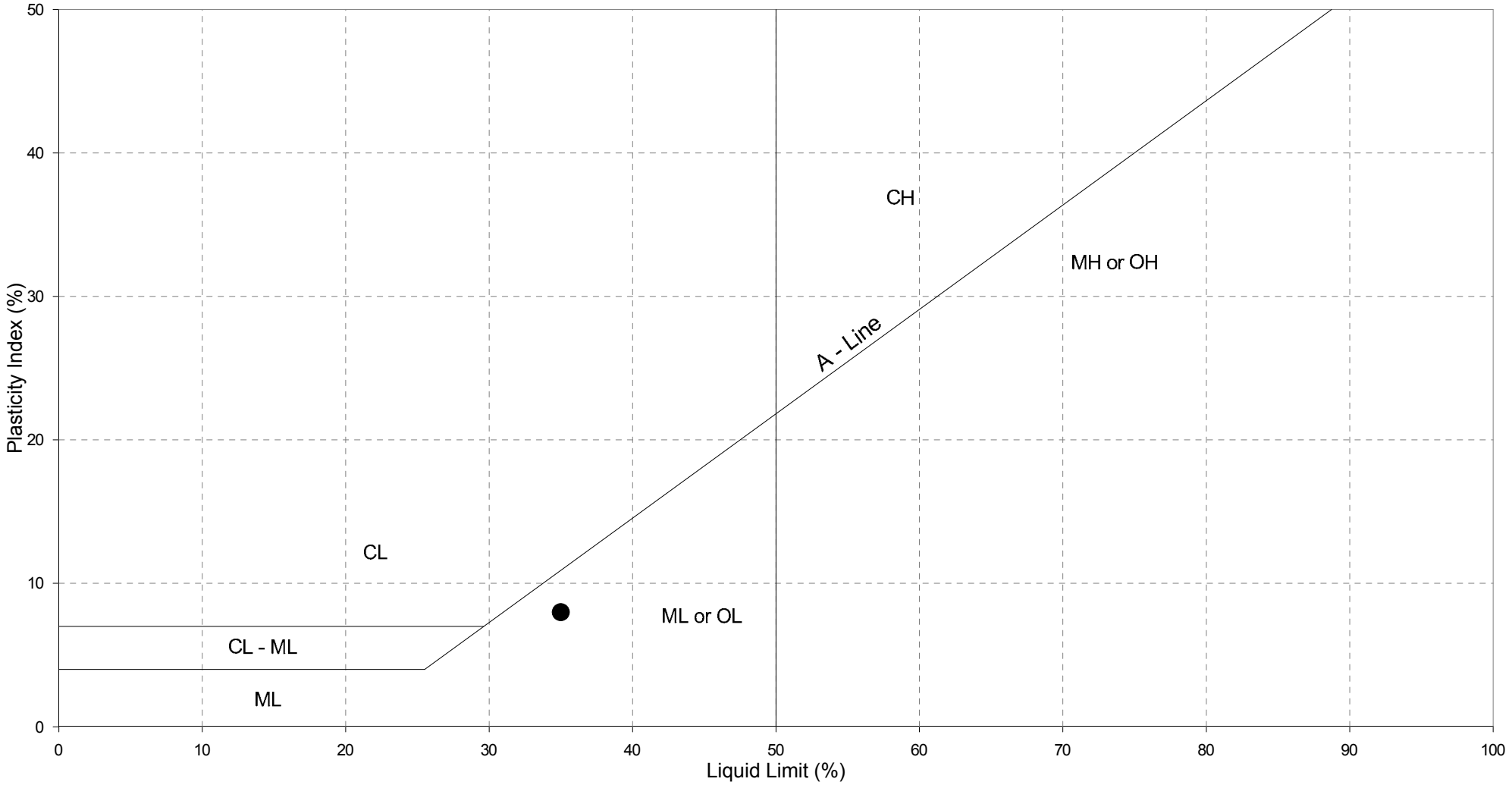
TITLE: PLASTICITY CHART
BH-BGC10-14 (G2)

CLIENT: VICTORIA GOLD CORPORATION

PROJECT No. 0792-004

FIG No. H-36

REV. 0




| SCALE: | DATE: | DRAWN: | DESIGNED: | CHECKED: | APPROVED: |
|---|---|---|---|---|---|
| NTS | NOV 2011 | TD | AJ | AKU | PQ |



BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

PROJECT: EAGLE GOLD PROJECT
2010 GEOTECHNICAL INVESTIGATION
FACTUAL DATA REPORT

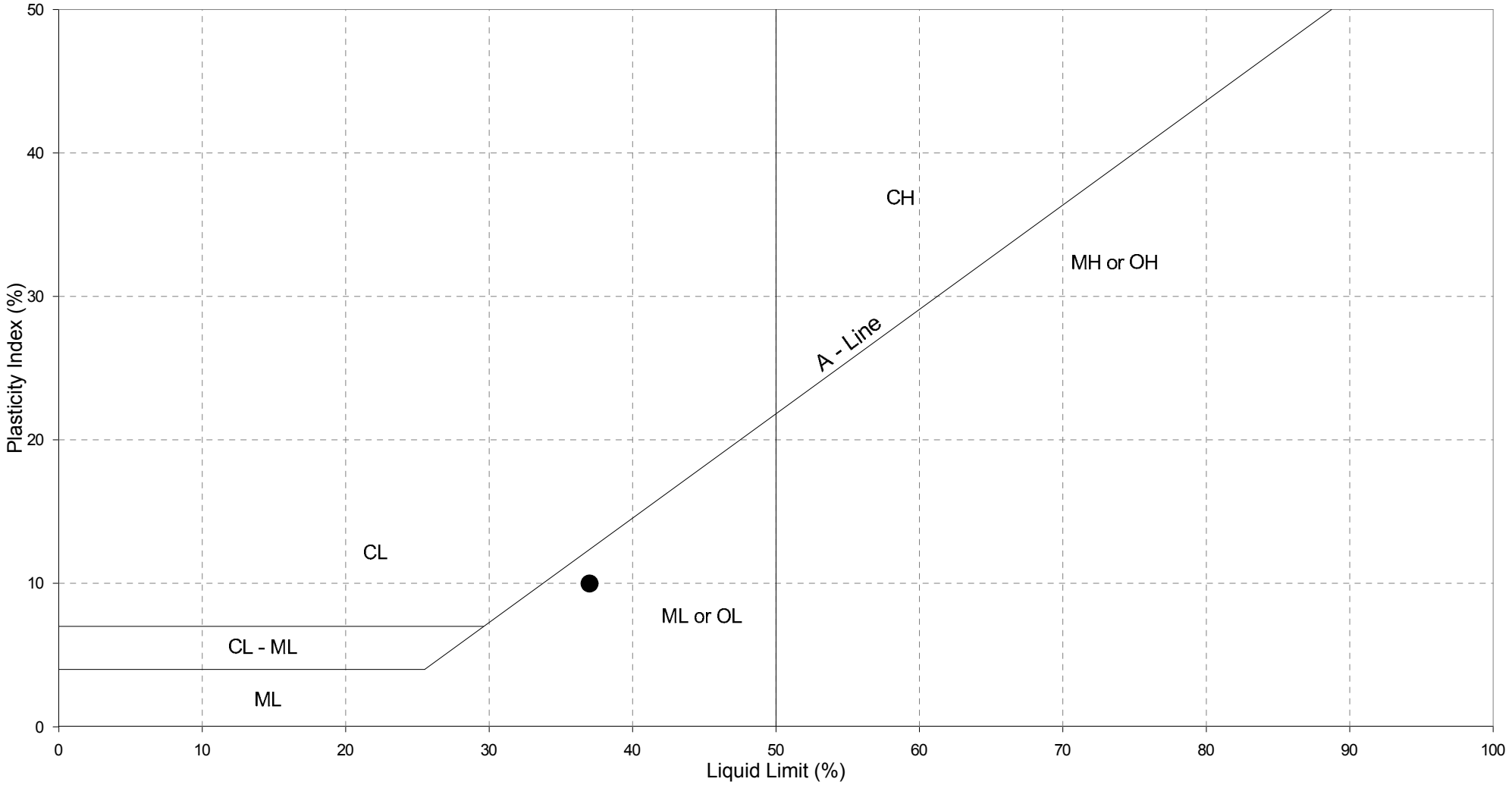
TITLE: PLASTICITY CHART
BH-BGC10-14 (G6)

CLIENT: VICTORIA GOLD CORPORATION

PROJECT No. 0792-004

FIG No. H-37

REV. 0




| SCALE: | DATE: | DRAWN: | DESIGNED: | CHECKED: | APPROVED: |
|---|---|---|---|---|---|
| NTS | NOV 2011 | TD | AJ | AKU | PQ |



BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

PROJECT: EAGLE GOLD PROJECT
2010 GEOTECHNICAL INVESTIGATION
FACTUAL DATA REPORT

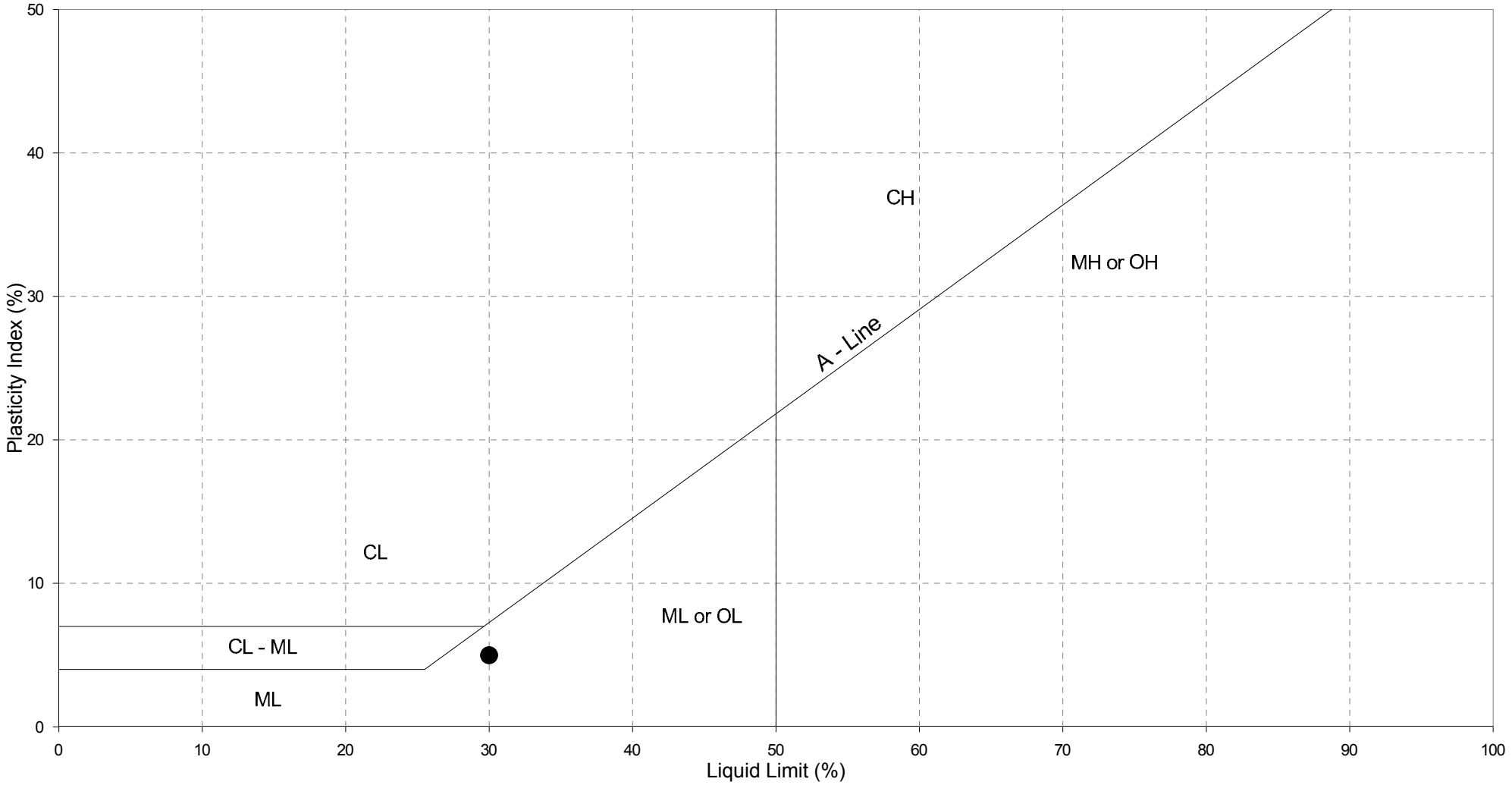
TITLE: PLASTICITY CHART
BH-BGC10-14 (G7)

CLIENT: VICTORIA GOLD CORPORATION

PROJECT No. 0792-004

FIG No. H-38

REV. 0




| SCALE: | DATE: | DRAWN: | DESIGNED: | CHECKED: | APPROVED: |
|---|---|---|---|---|---|
| NTS | NOV 2011 | TD | AJ | AKU | PQ |



BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

PROJECT: EAGLE GOLD PROJECT
2010 GEOTECHNICAL INVESTIGATION
FACTUAL DATA REPORT

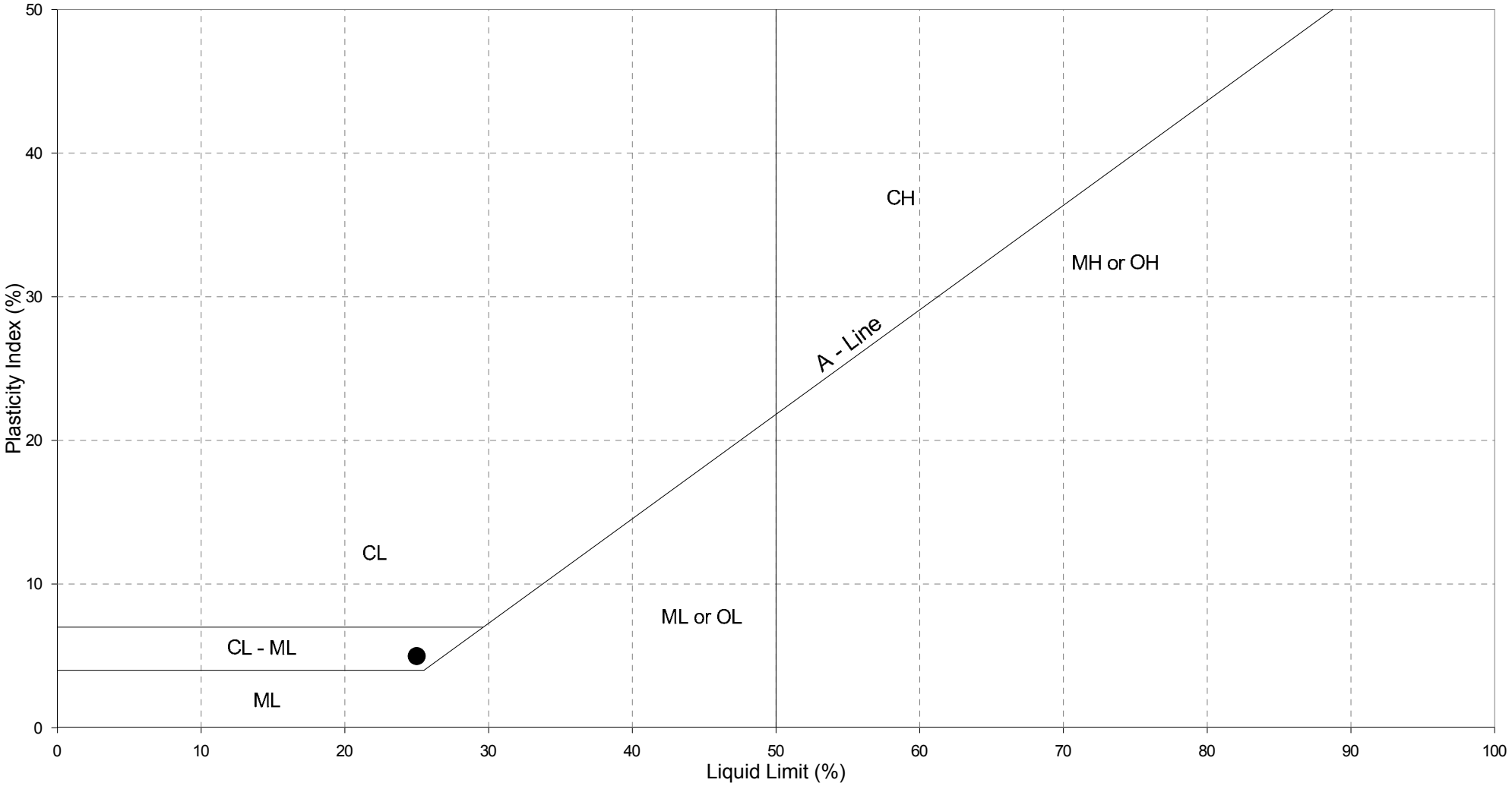
TITLE: PLASTICITY CHART
BH-BGC10-15 (G2)

CLIENT: VICTORIA GOLD CORPORATION

PROJECT No. 0792-004

FIG No. H-39

REV. 0




| SCALE: | DATE: | DRAWN: | DESIGNED: | CHECKED: | APPROVED: |
|---|---|---|---|---|---|
| NTS | NOV 2011 | TD | AJ | AKU | PQ |



BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

PROJECT: EAGLE GOLD PROJECT
2010 GEOTECHNICAL INVESTIGATION
FACTUAL DATA REPORT

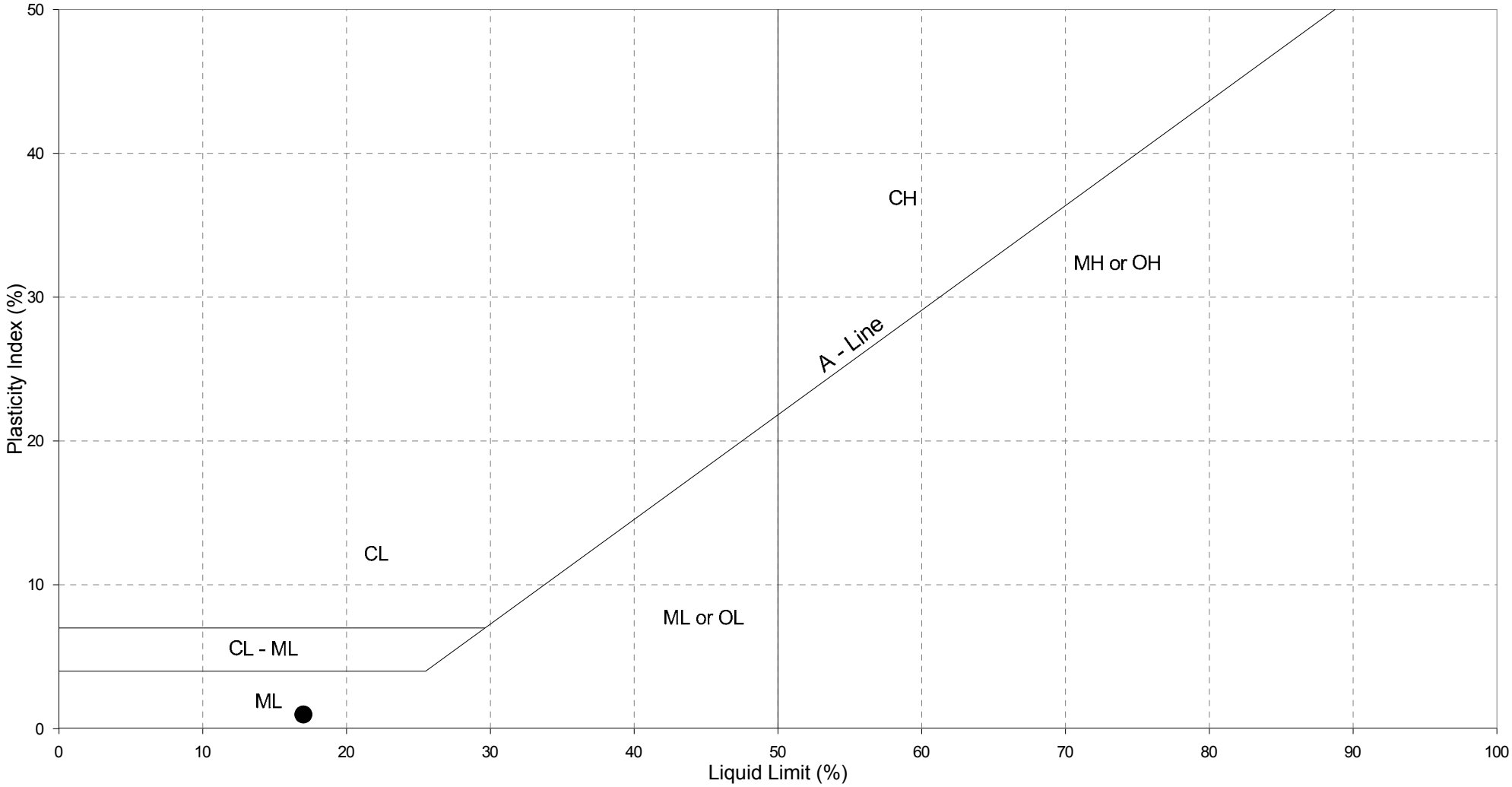
TITLE: PLASTICITY CHART
BH-BGC10-22 (G11)

CLIENT: VICTORIA GOLD CORPORATION

PROJECT No. 0792-004

FIG No. H-40

REV. 0




| SCALE: | DATE: | DRAWN: | DESIGNED: | CHECKED: | APPROVED: |
|---|---|---|---|---|---|
| NTS | NOV 2011 | TD | AJ | AKU | PQ |



BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

PROJECT: EAGLE GOLD PROJECT
2010 GEOTECHNICAL INVESTIGATION
FACTUAL DATA REPORT

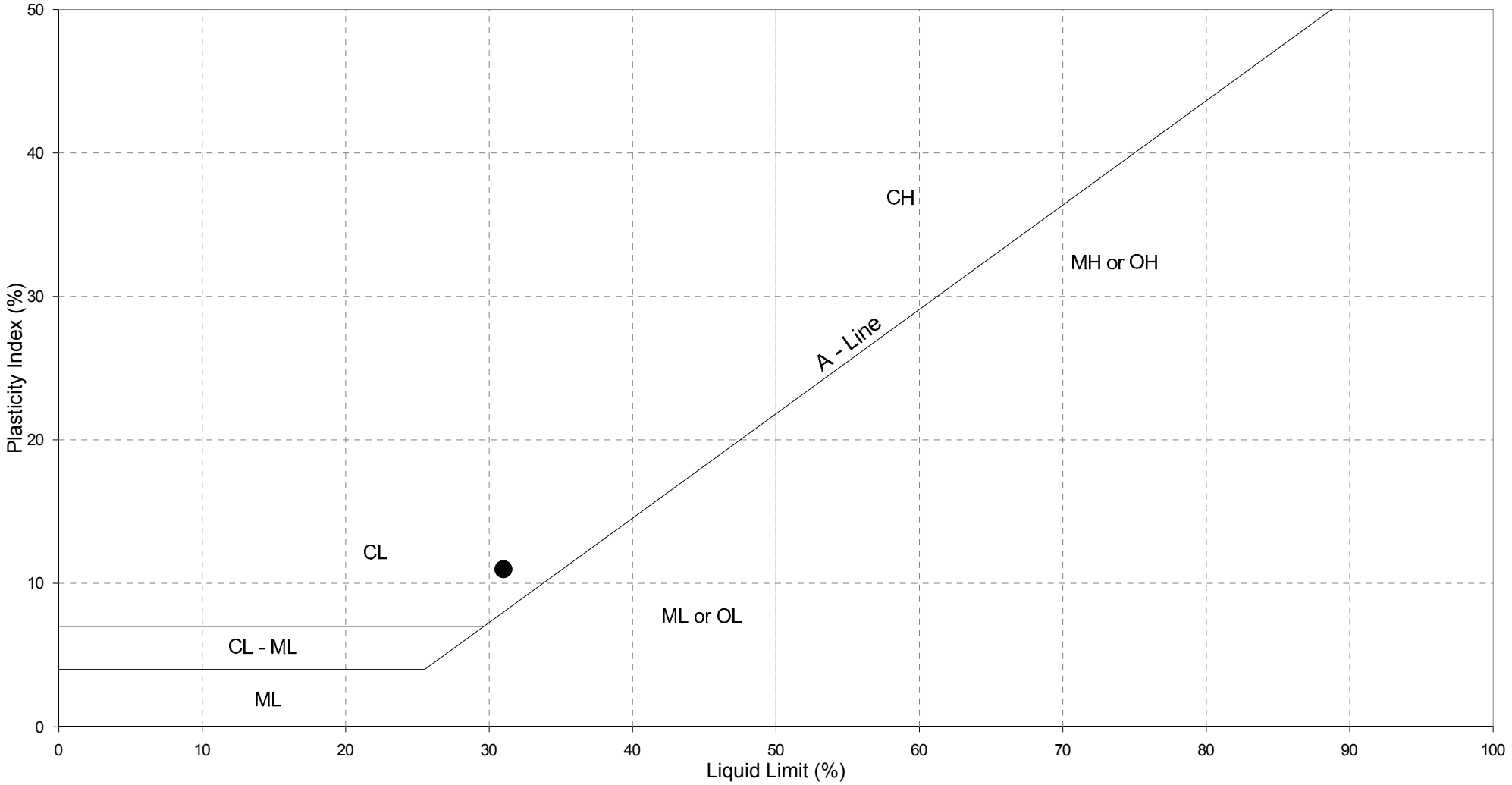
TITLE: PLASTICITY CHART
BH-BGC10-22 (G13)

CLIENT: VICTORIA GOLD CORPORATION

PROJECT No. 0792-004

FIG No. H-41

REV. 0




| SCALE: | DATE: | DRAWN: | DESIGNED: | CHECKED: | APPROVED: |
|---|---|---|---|---|---|
| NTS | NOV 2011 | TD | AJ | AKU | PQ |



BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

PROJECT: EAGLE GOLD PROJECT
2010 GEOTECHNICAL INVESTIGATION
FACTUAL DATA REPORT

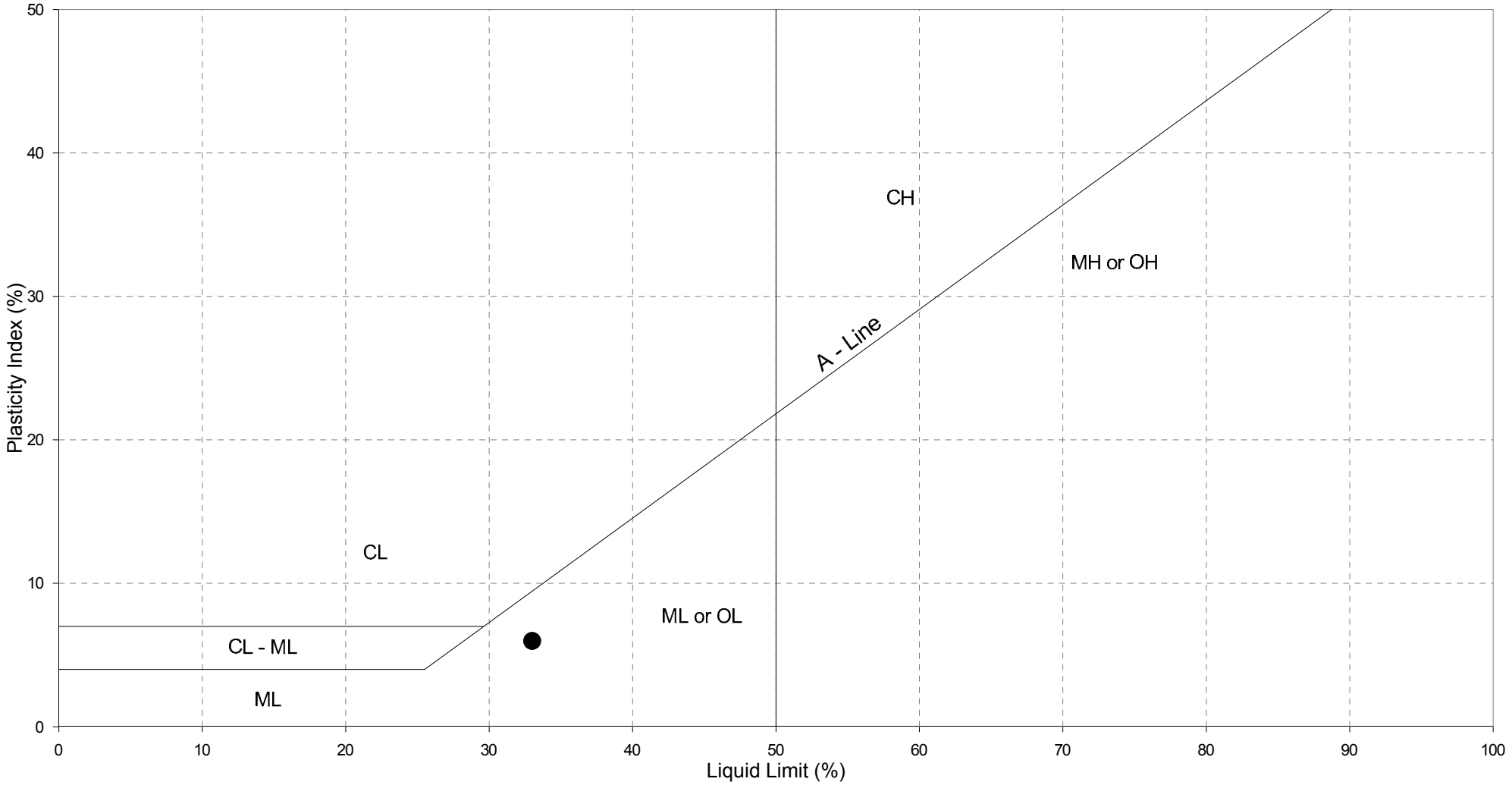
TITLE: PLASTICITY CHART
BH-BGC10-22 (G16)

CLIENT: VICTORIA GOLD CORPORATION

PROJECT No. 0792-004

FIG No. H-42

REV. 0




| SCALE: | DATE: | DRAWN: | DESIGNED: | CHECKED: | APPROVED: |
|---|---|---|---|---|---|
| NTS | NOV 2011 | TD | AJ | AKU | PQ |



BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

PROJECT: EAGLE GOLD PROJECT
2010 GEOTECHNICAL INVESTIGATION
FACTUAL DATA REPORT

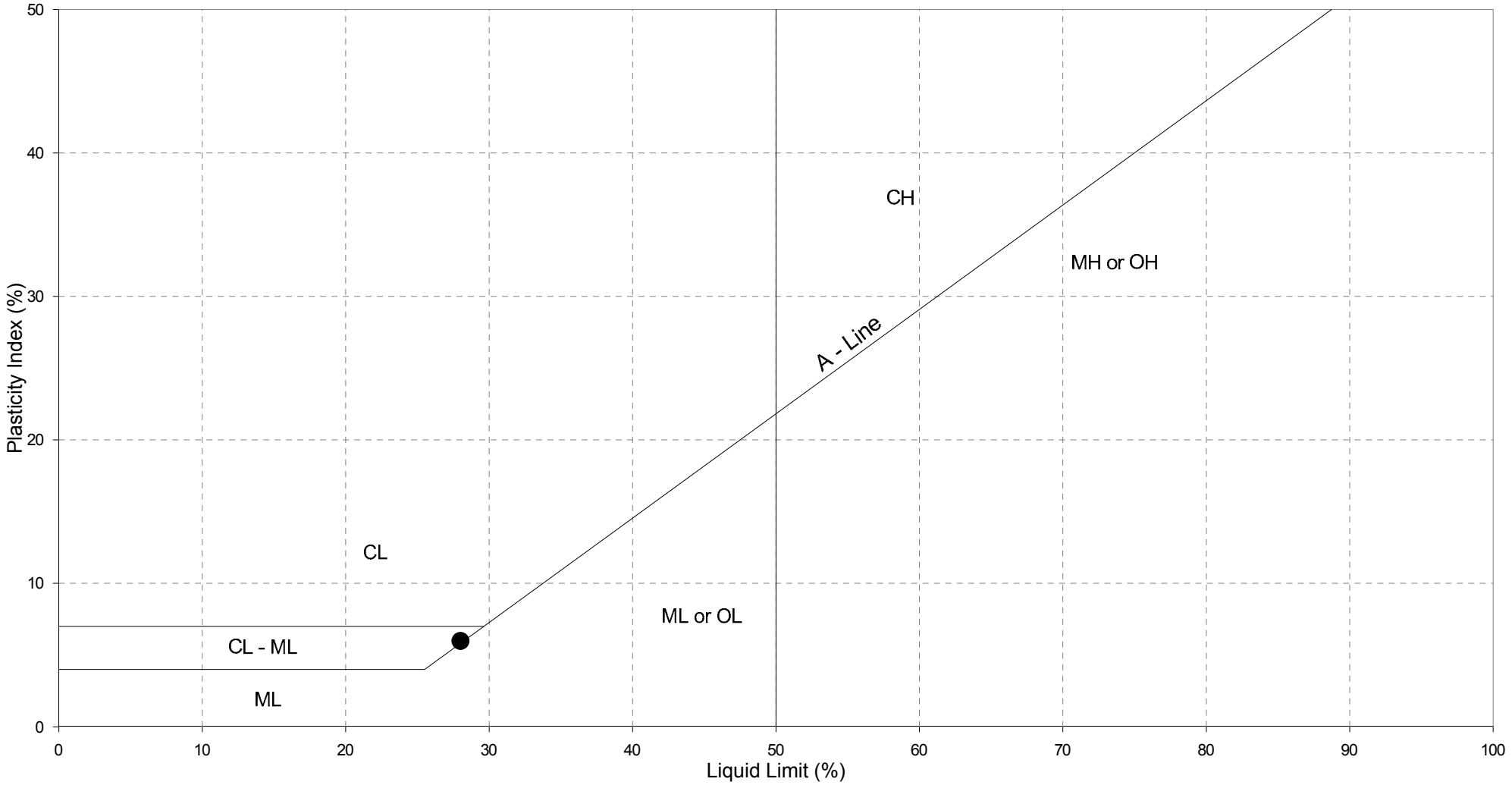
TITLE: PLASTICITY CHART
BH-BGC10-22 (G2)

CLIENT: VICTORIA GOLD CORPORATION

PROJECT No. 0792-004

FIG No. H-43

REV. 0




| SCALE: | DATE: | DRAWN: | DESIGNED: | CHECKED: | APPROVED: |
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PROJECT: EAGLE GOLD PROJECT
2010 GEOTECHNICAL INVESTIGATION
FACTUAL DATA REPORT

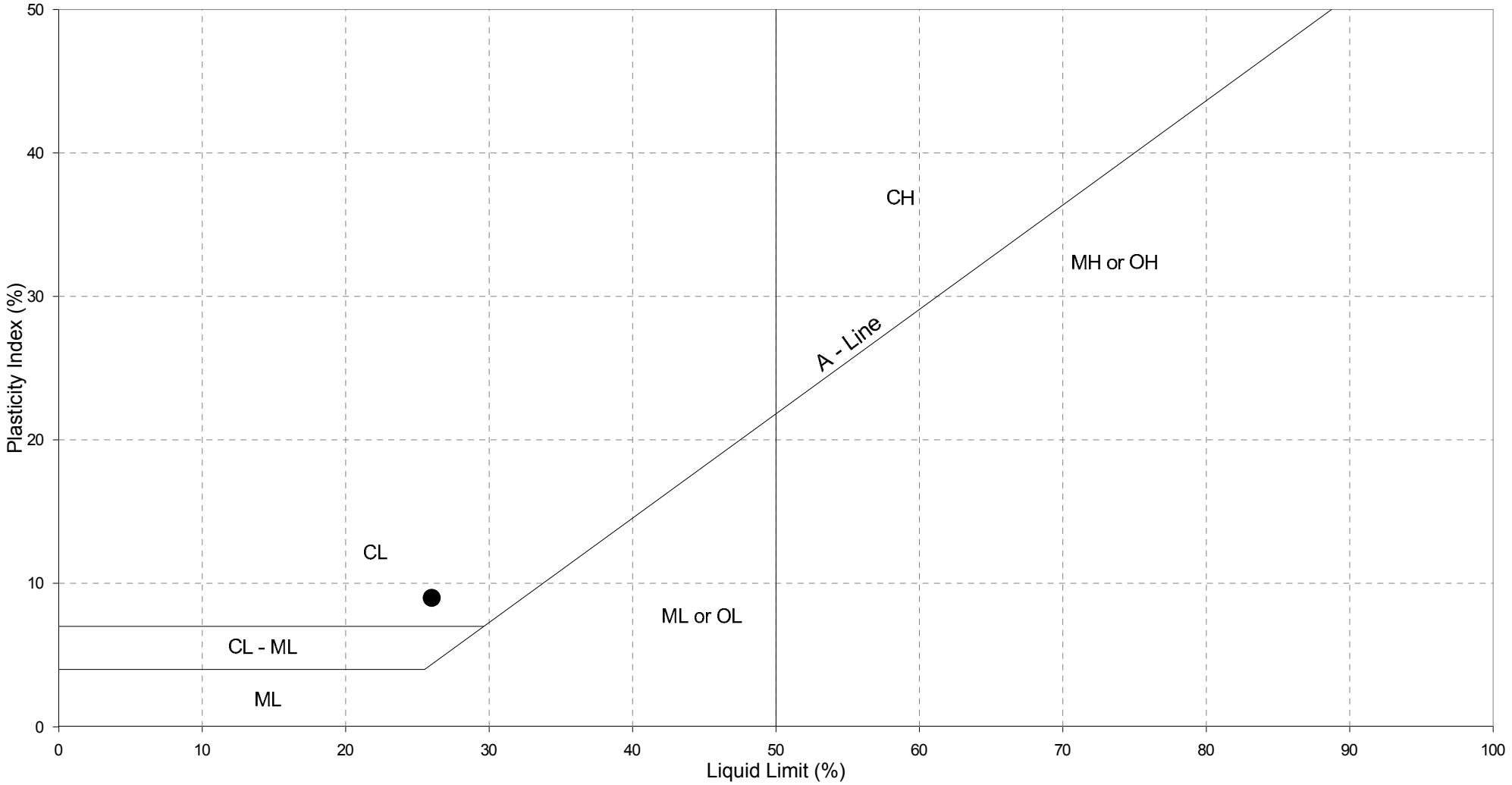
TITLE: PLASTICITY CHART
BH-BGC10-22 (STP8)

CLIENT: VICTORIA GOLD CORPORATION

PROJECT No. 0792-004

FIG No. H-44

REV. 0




| SCALE: | DATE: | DRAWN: | DESIGNED: | CHECKED: | APPROVED: |
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PROJECT: EAGLE GOLD PROJECT
2010 GEOTECHNICAL INVESTIGATION
FACTUAL DATA REPORT

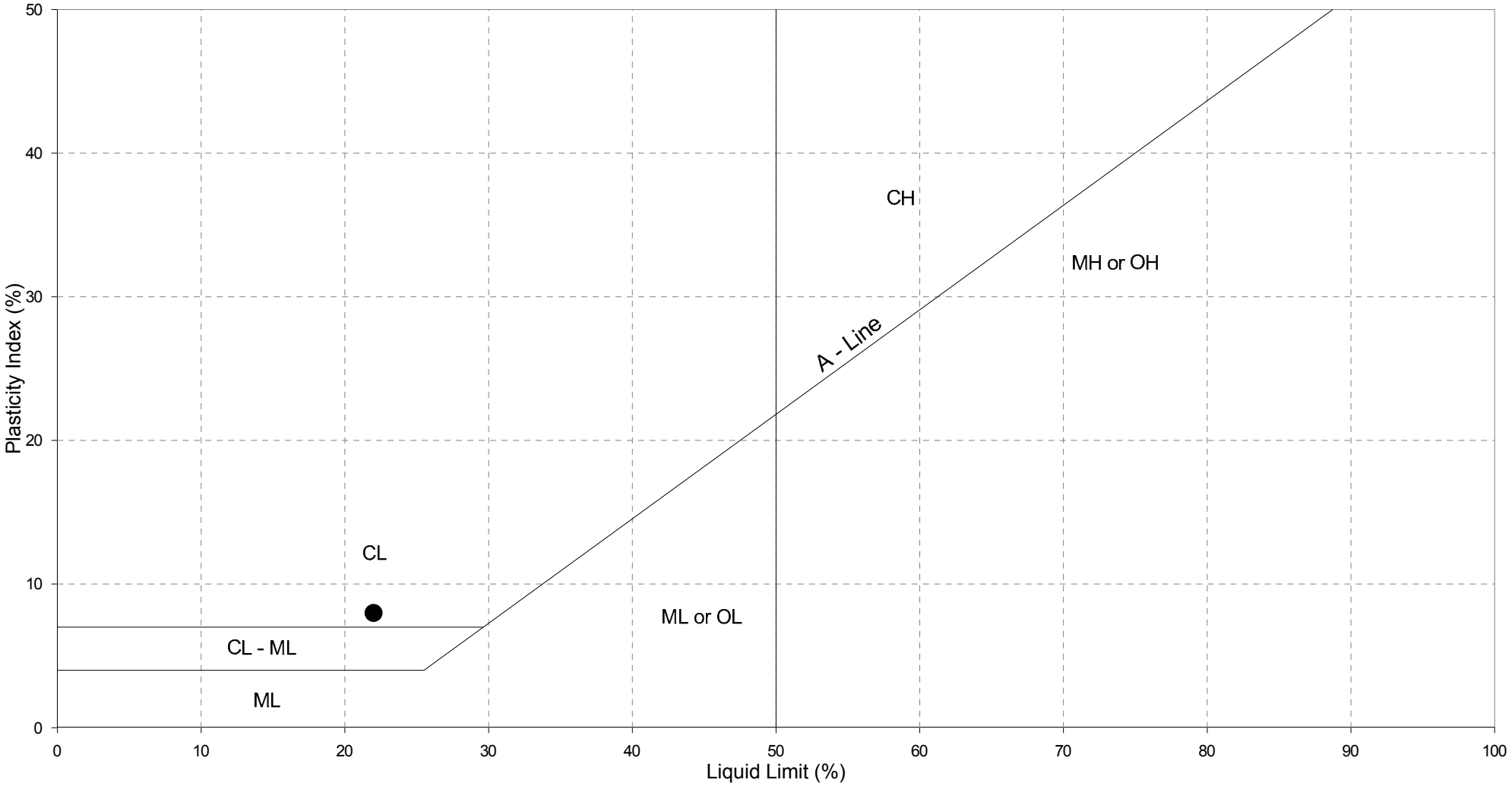
TITLE: PLASTICITY CHART
TP-BGC10-12 (M2)

CLIENT: VICTORIA GOLD CORPORATION

PROJECT No. 0792-004

FIG No. H-45

REV. 0




| SCALE: | DATE: | DRAWN: | DESIGNED: | CHECKED: | APPROVED: |
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PROJECT: EAGLE GOLD PROJECT
2010 GEOTECHNICAL INVESTIGATION
FACTUAL DATA REPORT

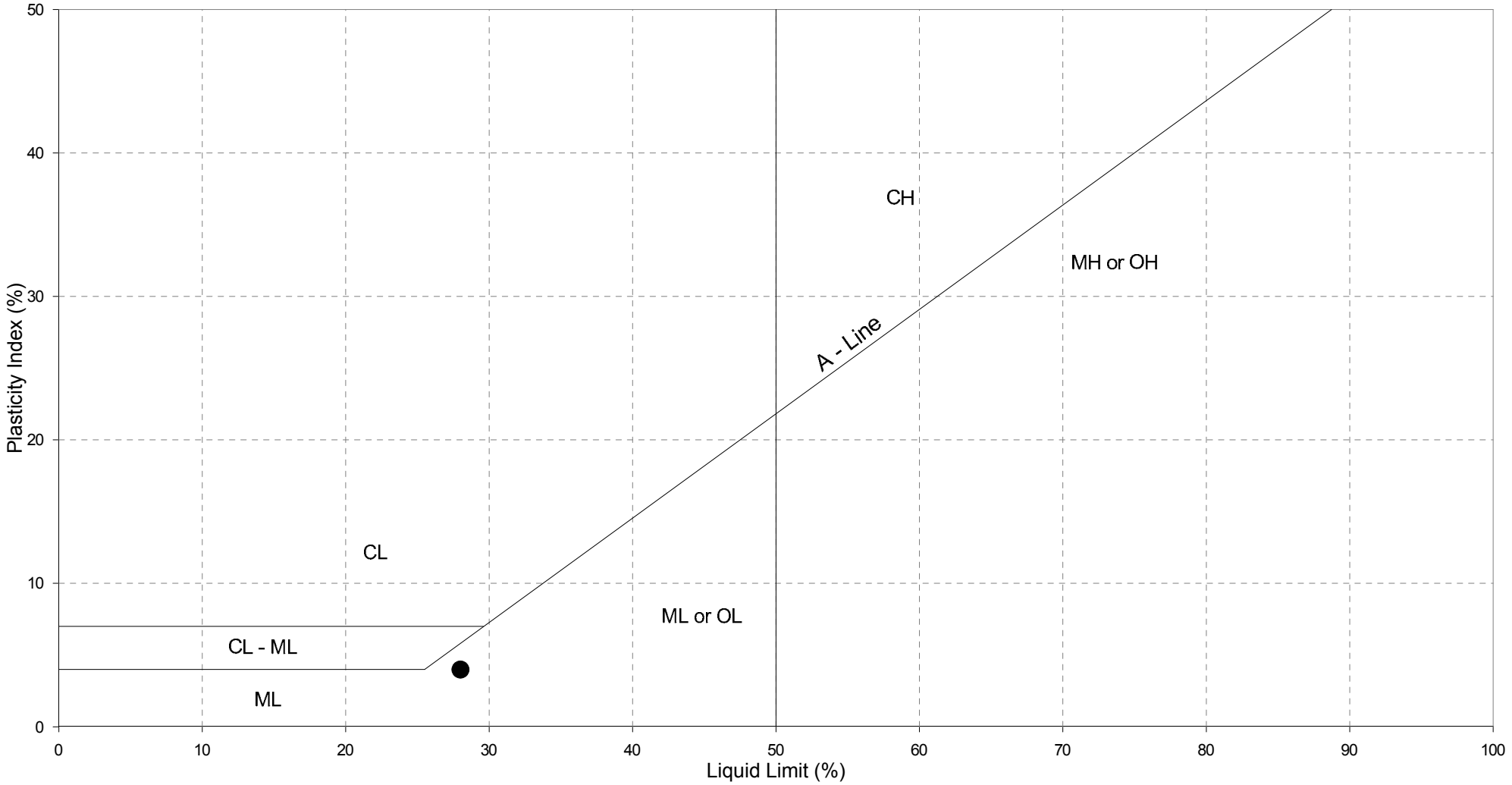
TITLE: PLASTICITY CHART
TP-BGC10-18 (M2)

CLIENT: VICTORIA GOLD CORPORATION

PROJECT No. 0792-004

FIG No. H-46

REV. 0




| SCALE: | DATE: | DRAWN: | DESIGNED: | CHECKED: | APPROVED: |
|---|---|---|---|---|---|
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PROJECT: EAGLE GOLD PROJECT
2010 GEOTECHNICAL INVESTIGATION
FACTUAL DATA REPORT

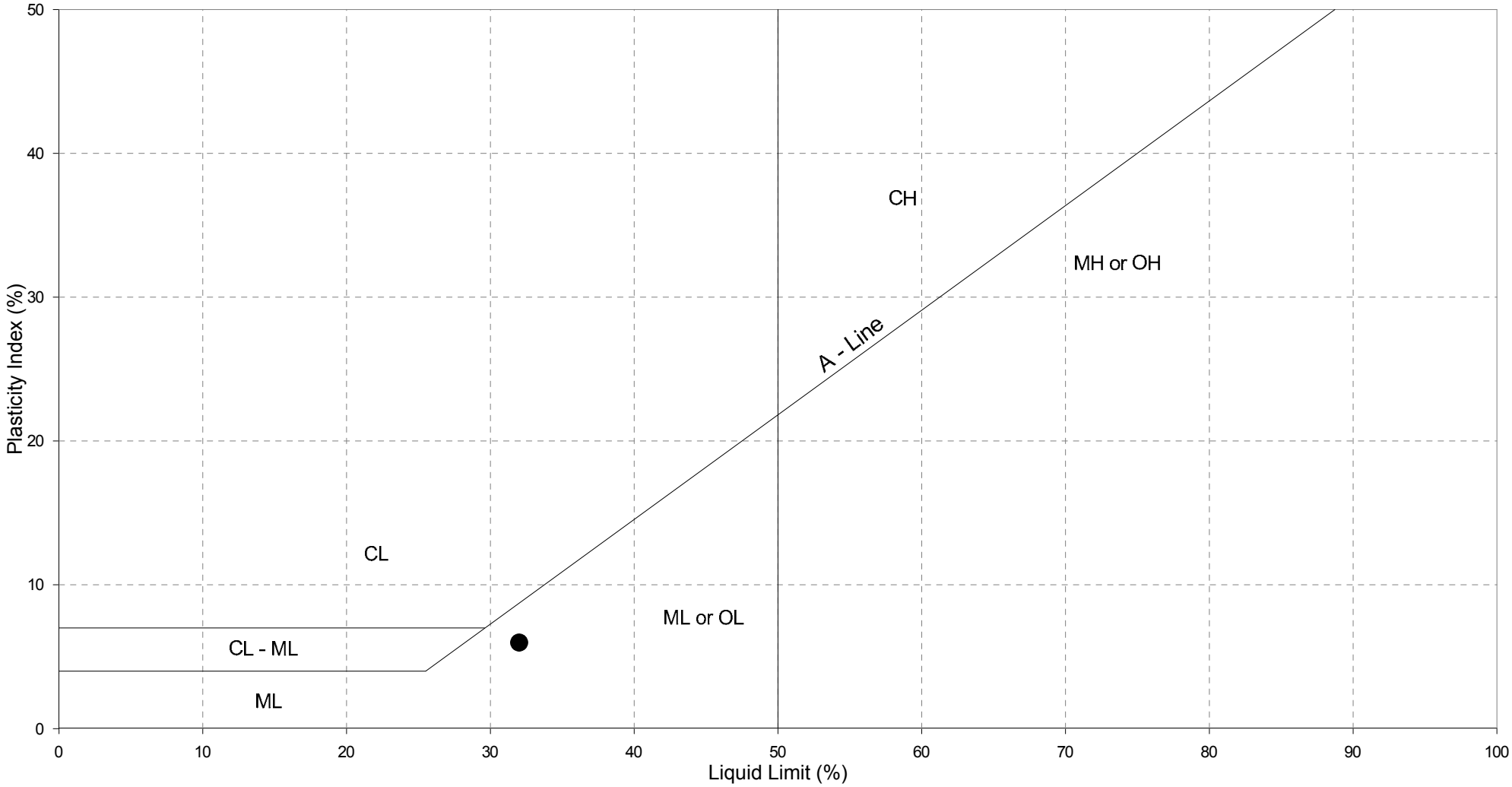
TITLE: PLASTICITY CHART
TP-BGC10-21 (M1)

CLIENT: VICTORIA GOLD CORPORATION

PROJECT No. 0792-004

FIG No. H-47

REV. 0




| SCALE: | DATE: | DRAWN: | DESIGNED: | CHECKED: | APPROVED: |
|---|---|---|---|---|---|
| NTS | NOV 2011 | TD | AJ | AKU | PQ |



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2010 GEOTECHNICAL INVESTIGATION
FACTUAL DATA REPORT

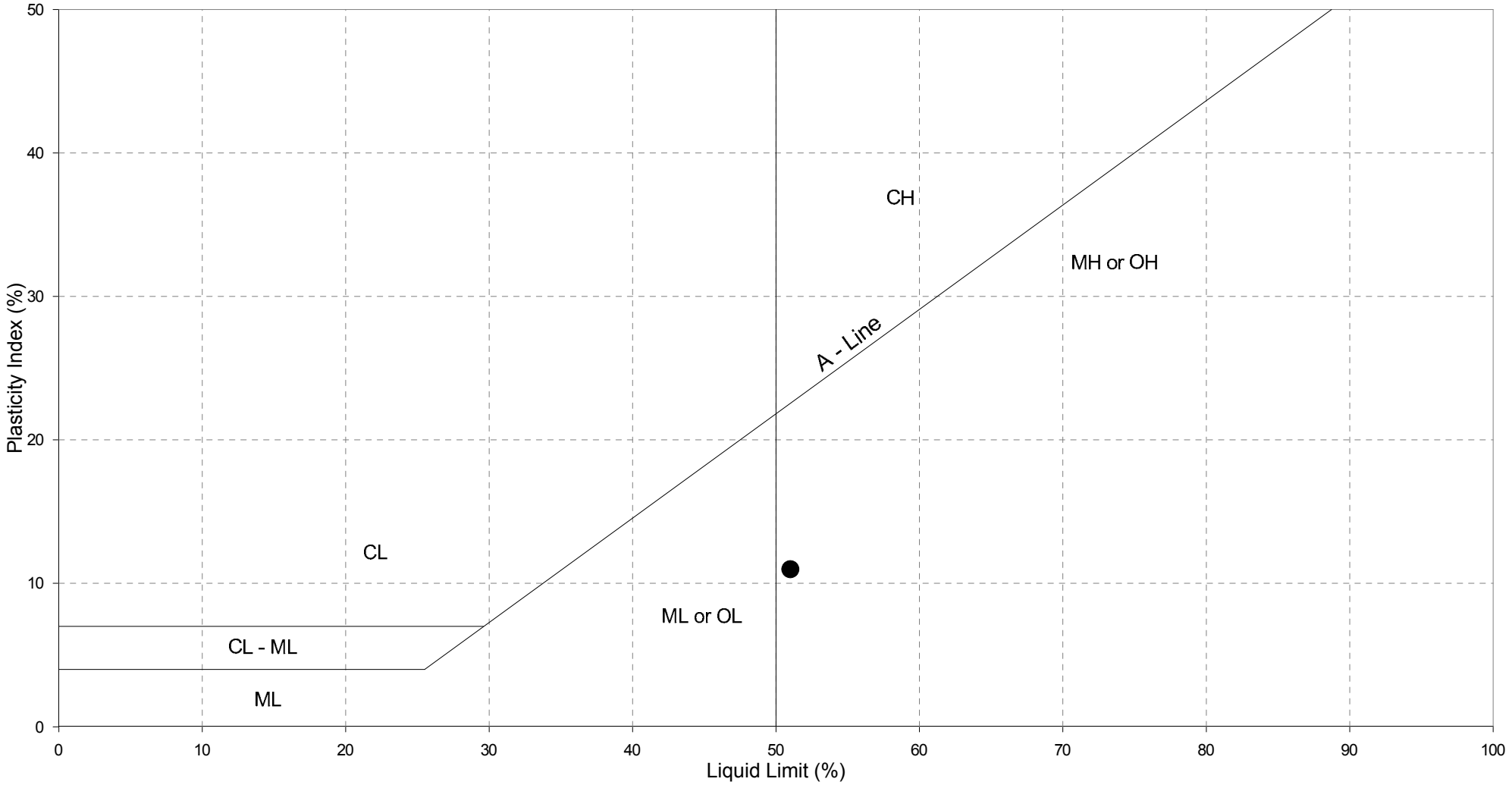
TITLE: PLASTICITY CHART
TP-BGC10-45 (M1)

CLIENT: VICTORIA GOLD CORPORATION

PROJECT No. 0792-004

FIG No. H-48

REV. 0




| SCALE: | DATE: | DRAWN: | DESIGNED: | CHECKED: | APPROVED: |
|---|---|---|---|---|---|
| NTS | NOV 2011 | TD | AJ | AKU | PQ |



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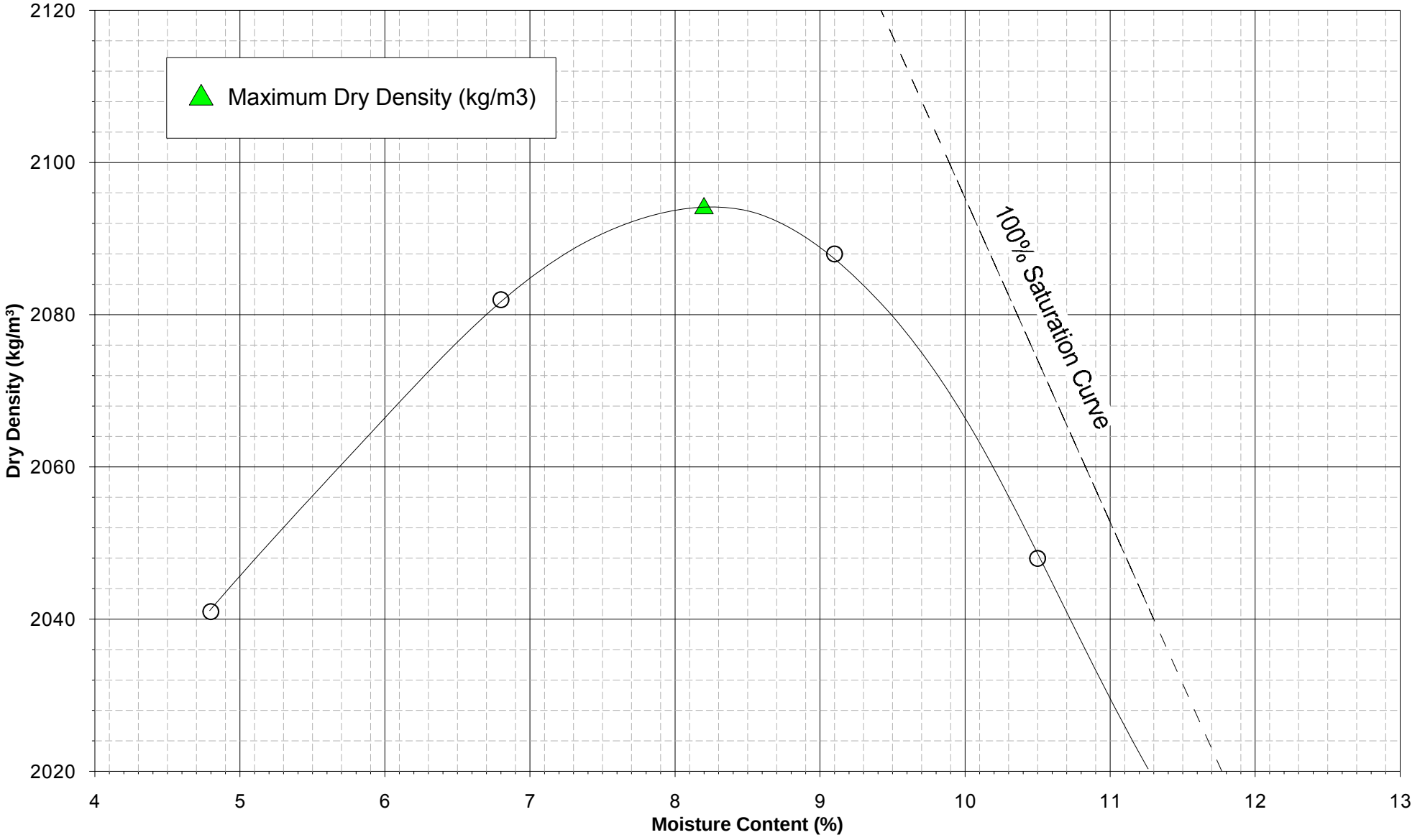
PROJECT: EAGLE GOLD PROJECT
2010 GEOTECHNICAL INVESTIGATION
FACTUAL DATA REPORT

TITLE: PLASTICITY CHART
TP-BGC10-48 (M2)

CLIENT: VICTORIA GOLD CORPORATION

| PROJECT No. | FIG No. | REV. |
|---|---|---|
| 0792-004 | H-49 | 0 |




| SCALE: | DATE: | DRAWN: | DESIGNED: | CHECKED: | APPROVED: |
|---|---|---|---|---|---|
| NTS | NOV 2011 | TD | AJ | AKU | PQ |



BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

PROJECT: EAGLE GOLD PROJECT
2010 GEOTECHNICAL INVESTIGATION
FACTUAL DATA REPORT

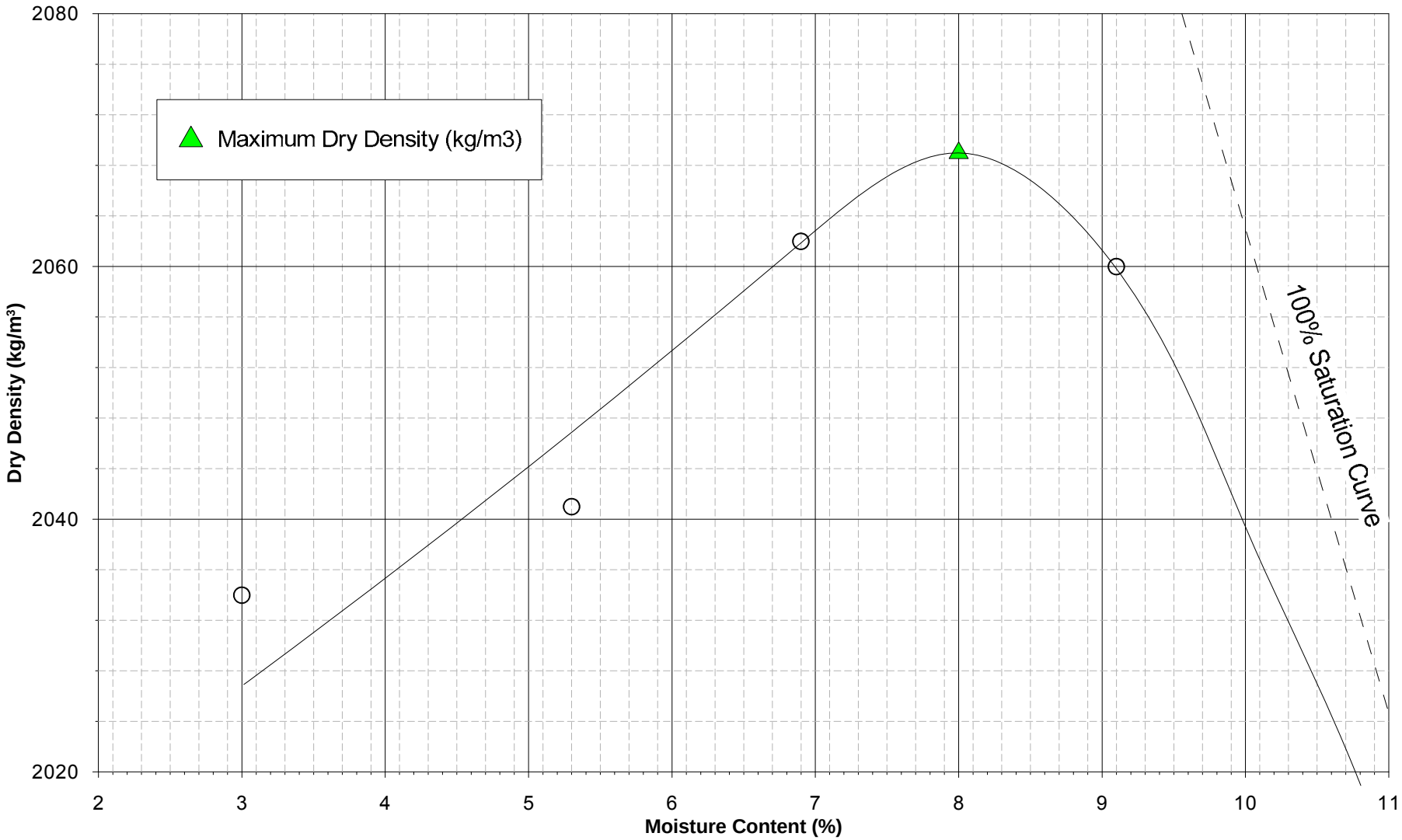
TITLE: PROCTOR LABORATORY RESULTS
TP-BGC10-38

CLIENT: VICTORIA GOLD CORPORATION

PROJECT No. 0792-004

FIG No. H-50

REV. 0




| SCALE: | DATE: | DRAWN: | DESIGNED: | CHECKED: | APPROVED: |
|---|---|---|---|---|---|
| NTS | NOV 2011 | TD | AJ | AKU | PQ |



BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

PROJECT: EAGLE GOLD PROJECT
2010 GEOTECHNICAL INVESTIGATION
FACTUAL REPORT

TITLE: PROCTOR LABORATORY RESULTS
TP-BGC10-44

CLIENT: VICTORIA GOLD CORPORATION

| PROJECT No. | FIG No. | REV. |
|---|---|---|
| 0792-004 | H-51 | 0 |