

EBA Engineering Consultants Ltd.

Creating and Delivering Better Solutions

November 5, 2004

EBA File: 1200121

Government of Yukon – Highways and Public Works
Transportation Engineering
Box 2703
Whitehorse, Yukon, Y1A 2C6

Attention: Jeffrey Marynowski, Aggregates and Materials Technician

Subject: **Geotechnical Services – Subsurface Investigation**
Beaver Creek Airport, Beaver Creek, Yukon

1.0 INTRODUCTION AND BACKGROUND

As requested, this letter report details the results of the field subsurface investigation (drilling) and laboratory testing program completed by EBA Engineering Consultants Ltd. (EBA) at the Beaver Creek Airport (the Site). The purpose of the drilling and laboratory program was to provide the Government of Yukon (YTG), Highways and Public Works, Transportation Engineering with subsurface stratigraphy data to determine material index properties for proposed apron expansion and runway extension at the Site.

EBA contacted the Community Aerodrome and Radio Station (CARS) operator, Ms. Celeste Dufault on October 8, 2004 prior to initiating a subsurface investigation at the Site on October 13, 2004. EBA mentioned that the investigation would consist of drilling boreholes for the collection of subsurface soil samples on airside of the airport property within the boundary limits for the proposed apron expansion and new taxiway.

EBA's site representative on this project was Mr. Chadwyck P. Cowan, P.Eng. and a truck mounted auger drill rig (CME 750) was supplied and operated by Midnight Sun Drilling Ltd. of Whitehorse, Yukon. All boreholes were drilled with solid stem augers.

2.0 SCOPE OF WORK

As per the YTG Request for Price Quote, EBA has attached the following required documentation.

- 1 Original field drill logs.
- 2 Drill logs in ESElog (ESEbase) compatible format (both hard and digital copies).
- 3 Index property test (grainsize analysis) results for collected samples from each borehole.
- 4 Summary of field results indicating test program specifics, identified material types, and evaluation of encountered material.
- 5 Photographs of investigation program.
- 6 Site plan (hard and digital copy) showing drill hole locations and references to site surveys.
- 7 Listing (hard and digital copy) of GPS reference co-ordinates for drill hole locations.

3.0 DRILLING AND LABORATORY PROGRAM RESULTS

3.1 Original field drill logs

The original field drill logs are attached in Appendix A.

3.2 ESElog (ESEbase) Drill Logs and Index Property Test Results

The ESElog drill logs with corresponding index property test (grainsize analysis) results are attached in Appendix B. Digital copies of ESElog drill logs are included with this letter report.

3.3 Summary of Field Results

Based on the drill hole information for the apron expansion and runway extension, the subsurface conditions generally consist of a thin layer of organics or gravel fill (approximately 100 to 200 mm thick) over a layer of silt with some sand and gravel underlain by a glacialfluvial outwash plain that consisted of gravel and sand with a trace to some silt.

Table 3.3 lists the moisture contents for samples collected from the drill holes. The sand and gravel samples had moisture contents that ranged from 1.0% to 6.8% and the silt samples had moisture contents that ranged from 10.0% to 19.9%.

Table 3.3
Moisture Contents for Collected Samples

Borehole (1200121-)	Sample (#)	Moisture (%)	Borehole (1200121-)	Sample (#)	Moisture (%)
BC01	1	4.2	BC07	31	4.9
BC01	2	2.9	BC07	32	2.3
BC01	3	2.2	BC07	33	2.3
BC01	4	1.2	BC07	34	2.2
BC01	5	1.7	BC07	35	2.4
BC02	6	2.0	BC08	36	2.1
BC02	7	1.8	BC08	37	1.3
BC02	8	1.4	BC08	38	1.2
BC02	9	1.6	BC08	39	1.3
BC02	10	1.6	BC08	40	1.4
BC03	11	1.9	BC09	41	6.8
BC03	12	2.0	BC09	42	2.4
BC03	13	1.1	BC09	43	2.6
BC03	14	1.0	BC09	44	2.5
BC03	15	1.6	BC09	45	3.1
BC04	16	17.4	BC10	46	8.7
BC04	17	6.8	BC10	47	5.3
BC04	18	3.0	BC10	48	1.5
BC04	19	2.7	BC10	49	3.5
BC04	20	4.4	BC10	50	No sample
BC05	21	2.4	BC11	51	19.9
BC05	22	3.2	BC11	52	7.5
BC05	23	4.1	BC11	53	7.3
BC05	24	1.1	BC11	54	1.7
BC05	25	3.1	BC11	55	4.0
BC06	26	10.0	BC12	56	3.2
BC06	27	1.6	BC12	57	2.6
BC06	28	1.8	BC12	58	2.4
BC06	29	1.5	BC12	59	1.1
BC06	30	3.6	BC12	60	1.5

3.4 Photographs of Investigation Program

No photographs were taken during this investigation program.

3.5 Site Plan

The Site Plans (attached as Figures 1 and 2) showing all of the EBA drill hole locations and other pertinent information were completed in AutoCAD. A digital copy is enclosed with this letter report.

3.6 GPS reference Co-ordinates for Drill Hole Locations

The following Table 3.6 lists the GPS reference co-ordinates for drill hole locations at the

Beaver Creek Airport. The UTM Zone for this site is 8. A digital copy of the table is enclosed with this letter report.

Table 3.6
GPS Reference Co-ordinates for Drill Hole Locations

BOREHOLE	NORTHING	EASTING
BC01	6919602	507051
BC02	6919654	507041
BC03	6919685	507012
BC04	6920390	506633
BC05	6920531	506581
BC06	6920674	506534
BC07	6920817	506488
BC08	6920878	506423
BC09	6920735	506480
BC10	6920594	506529
BC11	6920451	506577
BC12	6920308	506619

4.0 CLOSURE

This summary report has been prepared for the exclusive use of the YTG Highways and Public Works, Transportation Engineering for the particular application described in Section 1.0 of this report. Further information regarding the use of this report is presented in the attached EBA's Geotechnical - General Conditions, which form a part of this report. If you have any comments or questions on the information presented herein, please do not hesitate to contact our office.

Yours truly,
EBA Engineering Consultants Ltd.



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Project Director, Yukon Region
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The following was also supplied digitally with this report:

ESElog drill logs
Site Plans
GPS reference co-ordinates

This report incorporates and is subject to these "General Conditions".

A.1 USE OF REPORT AND OWNERSHIP

This geotechnical report pertains to a specific site, a specific development and a specific scope of work. It is not applicable to any other sites nor should it be relied upon for types of development other than that to which it refers. Any variation from the site or development would necessitate a supplementary geotechnical assessment.

This report and the recommendations contained in it are intended for the sole use of EBA's client. EBA does not accept any responsibility for the accuracy of any of the data, the analyses or the recommendations contained or referenced in the report when the report is used or relied upon by any party other than EBA's client unless otherwise authorized in writing by EBA. Any unauthorized use of the report is at the sole risk of the user.

This report is subject to copyright and shall not be reproduced either wholly or in part without the prior, written permission of EBA. Additional copies of the report, if required, may be obtained upon request.

A.2 NATURE AND EXACTNESS OF SOIL AND ROCK DESCRIPTIONS

Classification and identification of soils and rocks are based upon commonly accepted systems and methods employed in professional geotechnical practice. This report contains descriptions of the systems and methods used. Where deviations from the system or method prevail, they are specifically mentioned.

Classification and identification of geological units are judgmental in nature as to both type and condition. EBA does not warrant conditions represented herein as exact, but infers accuracy only to the extent that is common in practice.

Where subsurface conditions encountered during development are different from those described in this report, qualified geotechnical personnel should revisit the site and review recommendations in light of the actual conditions encountered.

A.3 LOGS OF TEST HOLES

The test hole logs are a compilation of conditions and classification of soils and rocks as obtained from field observations and laboratory testing of selected samples. Soil and rock zones have been interpreted. Change from one geological zone to the other, indicated on the logs as a distinct line, can be, in fact, transitional. The extent of transition is interpretive. Any circumstance that requires precise definition of

soil or rock zone transition elevations may require further investigation and review.

A.4 STRATIGRAPHIC AND GEOLOGICAL INFORMATION

The stratigraphic and geological information indicated on drawings contained in this report are inferred from logs of test holes and/or soil/rock exposures. Stratigraphy is known only at the locations of the test hole or exposure. Actual geology and stratigraphy between test holes and/or exposures may vary from that shown on these drawings. Natural variations in geological conditions are inherent and are a function of the historic environment. EBA does not represent the conditions illustrated as exact but recognizes that variations will exist. Where knowledge of more precise locations of geological units is necessary, additional investigation and review may be necessary.

A.5 SURFACE WATER AND GROUNDWATER CONDITIONS

Surface and groundwater conditions mentioned in this report are those observed at the times recorded in the report. These conditions vary with geological detail between observation sites; annual, seasonal and special meteorologic conditions; and with development activity. Interpretation of water conditions from observations and records is judgmental and constitutes an evaluation of circumstances as influenced by geology, meteorology and development activity. Deviations from these observations may occur during the course of development activities.

A.6 PROTECTION OF EXPOSED GROUND

Excavation and construction operations expose geological materials to climatic elements (freeze/thaw, wet/dry) and/or mechanical disturbance that can cause severe deterioration. Unless otherwise specifically indicated in this report, the walls and floors of excavations must be protected from the elements, particularly moisture, desiccation, frost action and construction traffic.

A.7 SUPPORT OF ADJACENT GROUND AND STRUCTURES

Unless otherwise specifically advised, support of ground and structures adjacent to the anticipated construction and preservation of adjacent ground and structures from the adverse impact of construction activity is required.

EBA Engineering Consultants Ltd. (EBA)
GEOTECHNICAL REPORT – GENERAL CONDITIONS

**A.8 INFLUENCE OF CONSTRUCTION
ACTIVITY**

There is a direct correlation between construction activity and structural performance of adjacent buildings and other installations. The influence of all anticipated construction activities should be considered by the contractor, owner, architect and prime engineer in consultation with a geotechnical engineer, when the final design and construction techniques are known.

**A.9 OBSERVATIONS DURING
CONSTRUCTION**

Because of the nature of geological deposits, the judgmental nature of geotechnical engineering, as well as the potential of adverse circumstances arising from construction activity, observations during site preparation, excavation and construction should be carried out by a geotechnical engineer. These observations may then serve as the basis for confirmation and/or alteration of geotechnical recommendations or design guidelines presented herein.

A.10 DRAINAGE SYSTEMS

Where temporary or permanent drainage systems are installed within or around a structure, the systems that will be installed must protect the structure from loss of ground due to internal erosion and must be designed so as to assure continued performance of the drains. Specific design detail of such systems should be developed or reviewed by the geotechnical engineer. Unless otherwise specified, it is a condition of this report that effective temporary and permanent drainage systems are required and that they must be considered in relation to project purpose and function.

A.11 BEARING CAPACITY

Design bearing capacities, loads and allowable stresses quoted in this report relate to a specific soil or rock type and condition. Construction activity and environmental circumstances can materially change the condition of soil or rock. The elevation at which a soil or rock type occurs is variable. It is a requirement of this report that structural elements be founded in and/or upon geological materials of the type and in the condition assumed. Sufficient observations should be made by qualified geotechnical personnel during construction to assure that the soil and/or rock conditions assumed in this report in fact exist at the site.

A.12 SAMPLES

EBA will retain all soil and rock samples for 30 days after this report is issued. Further storage or transfer of

samples can be made at the client's expense upon written request, otherwise samples will be discarded.

A.13 STANDARD OF CARE

Services performed by EBA for this report have been conducted in a manner consistent with the level of skill ordinarily exercised by members of the profession currently practising under similar conditions in the jurisdiction in which the services are provided. Engineering judgement has been applied in developing the conclusions and/or recommendations provided in this report. No warranty or guarantee, express or implied, is made concerning the test results, comments, recommendations, or any other portion of this report.

**A.14 ENVIRONMENTAL AND REGULATORY
ISSUES**

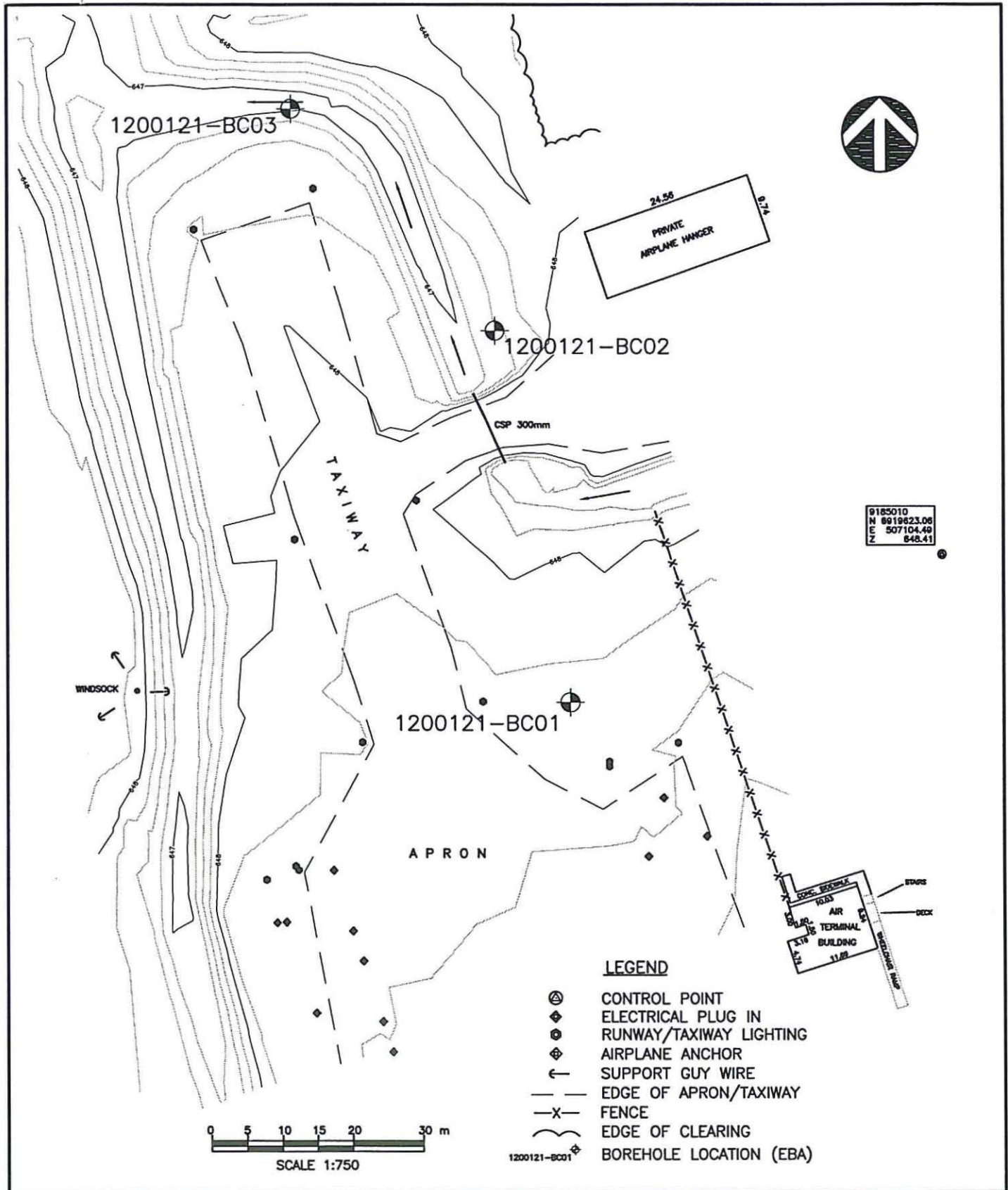
Unless stipulated in the report, EBA has not been retained to investigate, address or consider and has not investigated, addressed or considered any environmental or regulatory issues associated with development on the subject site.

A.15 ALTERNATE REPORT FORMAT

Where EBA submits both electronic file and hard copy versions of reports, drawings and other project-related documents and deliverables (collectively termed EBA's instruments of professional service), the Client agrees that only the signed and sealed hard copy versions shall be considered final and legally binding. The hard copy versions submitted by EBA shall be the original documents for record and working purposes, and, in the event of a dispute or discrepancies, the hard copy versions shall govern over the electronic versions. Furthermore, the Client agrees and waives all future right of dispute that the original hard copy signed version archived by EBA shall be deemed to be the overall original for the Project.

The Client agrees that both electronic file and hard copy versions of EBA's instruments of professional service shall not, under any circumstances, no matter who owns or uses them, be altered by any party except EBA. The Client warrants that EBA's instruments of professional service will be used only and exactly as submitted by EBA.

The Client recognizes and agrees that electronic files submitted by EBA have been prepared and submitted using specific software and hardware systems. EBA makes no representation about the compatibility of these files with the Client's current or future software and hardware systems.



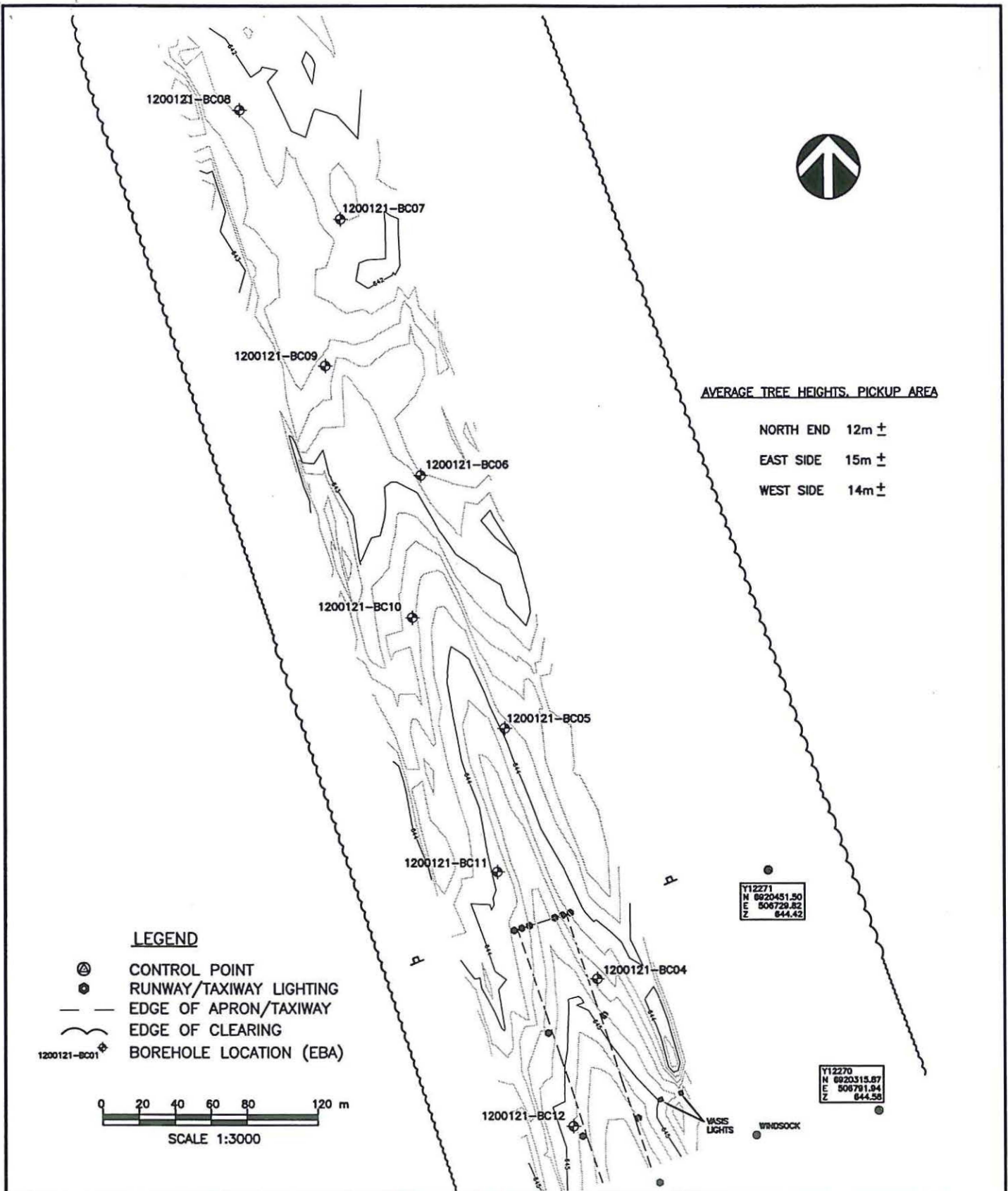
EBA Engineering Consultants Ltd.

PROJECT
GEOTECHNICAL SERVICES - SUBSURFACE INVESTIGATION
BEAVER CREEK AIRPORT, BEAVER CREEK, YT.

CLIENT
Yukon Transportation Engineering Branch
Highways and Public Works

TITLE
SITE PLAN SHOWING BOREHOLE
LOCATIONS FOR APRON EXPANSION

DATE	OCT. 2004	DWN.	CPC	CHKD.	JRT	FILE NO.	1200121	DRWG.	FIGURE 1
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EBA Engineering Consultants Ltd.

PROJECT
 GEOTECHNICAL SERVICES - SUBSURFACE INVESTIGATION
 BEAVER CREEK AIRPORT, BEAVER CREEK, YT.

CLIENT
Yukon Transportation Engineering Branch
 Highways and Public Works

TITLE
 SITE PLAN SHOWING BOREHOLE
 LOCATIONS FOR RUNWAY EXTENSION

DATE	OCT. 2004	DWN.	CPC	CHKD.	JRT	FILE NO.	1200121	DRWG.	FIGURE 2
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APPENDIX A
Original Field Drill Logs

BOREHOLE No. BC01 DATE Oct 13/04
 LOGGED BY CPC SURFACE ELEV. _____
 DRILLING METHOD CMG 750 solid stem

DEPTH	STRATIGRAPHY	BLOW COUNT	POCKET PEN. (TSF)	RECOVERY
0	ORGANICS - grass, rootlets, brown seasonal frost to 0.1m			
0.1	GRAVEL - sandy, trace of silt, loose, sub-rounded particles, well graded, brownish grey, damp GOA @ 4.6m Note: visible cobbles at the surface in the area. <u>BC02</u>			
0	ORGANICS - grass, rootlets, brown seasonal frost to 0.1m			
0.1	SILT - sandy, some gravel, fine, sub-rounded particles, greyish brown, moist.			
0.3	GRAVEL - sandy, trace of silt, loose, sub-rounded particles, well graded, brownish grey GOA @ 4.6m			

LOCATION DUGAN CREEK AIRPORT
 TIME START 9:15 DOWN _____ FINISH _____
 WEATHER _____
 1200121

SAMPLE TYPE	DEPTH		SAMPLE DESCRIPTION
	FROM	TO	
#1	0.4	0.7	
#2	1.3	1.6	
#3	2.3	2.6	
#4	3.3	3.6	
#5	4.3	4.6	
			(9:45)
#6	0.4	0.7	
#7	1.3	1.6	
#8	2.3	2.6	
#9	3.3	3.6	
#10	4.3	4.6	

BOREHOLE No. BC03 DATE Oct 13/04
 LOGGED BY CPC SURFACE ELEV. _____
 DRILLING METHOD _____

LOCATION BEAVER CREEK AIRPORT
 TIME START 10:15 DOWN _____ FINISH _____
 WEATHER _____

DEPTH	STRATIGRAPHY	BLOW COUNT	POCKET PEN. (TSF)	RECOVERY
0	ORGANICS - grass, rootlets, brown seasonal frost to 0.1m			
0.1	GRAVEL - sandy, trace of silt, sub rounded particles, well graded, brownish grey, damp.			loose
<u>BOH @ 4.6m</u>				
0	GRAVEL (FILL) - sandy, trace of silt, ^{gravel} ^{loose} seasonal frost to 0.1m			
0.2	SILT - sandy, trace of gravel, brown, moist			
0.7	GRAVEL - sandy, some silt, sub rounded particles, well graded, greyish brown, moist			loose
1.0	- trace of silt, brownish grey			
3.8	SAND - gravelly, trace of silt, coarse grained, well graded, brownish grey, moist to wet			

SAMPLE TYPE	DEPTH		SAMPLE DESCRIPTION
	FROM	TO	
#11	0.4	0.7	
#12	1.3	1.6	
#13	2.3	2.6	
#14	3.3	3.6	
#15	4.3	4.6	
(11'00)			
#16	0.4	0.7	
#17	1.3	1.6	
#18	2.3	2.6	
#19	3.3	3.6	
#20	4.3	4.6	

BOH @ 4.6m

BOREHOLE No. BC05 DATE Oct 13/24
 LOGGED BY CPC SURFACE ELEV. _____
 DRILLING METHOD _____

LOCATION _____
 TIME START 11:30 DOWN _____ FINISH _____
 WEATHER _____

DEPTH	STRATIGRAPHY	BLOW COUNT	POCKET PEN. (TSF)	RECOVERY
0	GRAVEL (fill) - sandy, some silt, seasonal frost to 0.1m, brownish grey.			
0.2	SILT - some sand, trace of gravel, fine grained, brown, moist.			
0.8	GRAVEL - sandy, trace of silt, loose, sub rounded particles, well graded, brownish grey, damp.			
<hr/> END @ 4.6m				

SAMPLE TYPE	DEPTH		SAMPLE DESCRIPTION
	FROM	TO	
#21	0.4	0.7	
#22	1.3	1.6	
#23	2.3	2.6	
#24	3.3	3.6	
#25	4.3	4.6	

BOREHOLE No. BC06 DATE Oct 13/04
 LOGGED BY CPC SURFACE ELEV. _____
 DRILLING METHOD _____

LOCATION _____
 TIME START 12:00 DOWN _____ FINISH _____
 WEATHER _____

DEPTH	STRATIGRAPHY	BLOW COUNT	POCKET PEN. (TSF)	RECOVERY
0	ORGANICS - grass, rootlets, brown seasonal frost to 0.1m			
0.1	SILT - some sand, trace of gravel, brown, moist			
0.6	GRAVEL - sandy, trace of silt, loose, sub-rounded particles, well graded, damp, brown to grey			
<hr/> End @ 4.6m				

SAMPLE TYPE	DEPTH		SAMPLE DESCRIPTION
	FROM	TO	
#26	0.3	0.6	
#27	1.3	1.6	
#28	2.3	2.6	
#29	3.3	3.6	
#30	4.3	4.6	

BOREHOLE No. BLOG DATE Oct 13/04
 LOGGED BY CRC SURFACE ELEV. _____
 DRILLING METHOD _____

LOCATION _____
 TIME START 13:15 DOWN _____ FINISH _____
 WEATHER _____

DEPTH	STRATIGRAPHY	BLOW COUNT	POCKET PEN. (TSF)	RECOVERY
0	ORGANICS - grass, rootlets, brown seasonal frost to 0.1m			
0.1	SILT - some sand & gravel, brown, damp.			
0.5	GRAVEL - sandy, trace of silt, loose, sub rounded particles, well graded, brownish grey, damp.			

SAMPLE TYPE	DEPTH		SAMPLE DESCRIPTION
	FROM	TO	
#41	0.3	0.5	
#42	1.3	1.6	
#43	2.3	2.6	
#44	3.3	3.6	
#45	4.3	4.6	

BOREHOLE No. BC10 DATE Oct 13/04
 LOGGED BY CDC SURFACE ELEV. _____
 DRILLING METHOD _____


DEPTH	STRATIGRAPHY	BLOW COUNT	POCKET PEN. (TSF)	RECOVERY
0	ORGANICS - grass, rootlets, brown, seasonal frost to 0.1 m			
0.1	SILT - some sandy, brown, damp.			
0.8	GRAVEL - sandy, some silt, loose, sub rounded particles, well graded, brown, damp.			
1.7	- trace of silt, brownish grey.			
<hr/> BGA @ 4.6 m				

LOCATION _____
 TIME START 13:25 DOWN _____ FINISH _____
 WEATHER _____

SAMPLE TYPE	DEPTH		SAMPLE DESCRIPTION
	FROM	TO	
#46	0.4	0.7	
#47	1.3	1.6	
#48	2.3	2.6	
#49	3.3	3.6	
	4.3	4.6	- no sample, not enough material on auger flights.

BOREHOLE No. BC12 DATE 02/13/04
 LOGGED BY CPC SURFACE ELEV. _____
 DRILLING METHOD _____

LOCATION _____
 TIME START 14:25 DOWN _____ FINISH _____
 WEATHER _____

DEPTH	STRATIGRAPHY	BLOW COUNT	POCKET PEN. (TSF)	RECOVERY
0	SILT - some sand & gravel, brown seasonal frost to 0.1m			
0.1	- moist			
0.3	GRAVEL - sandy, trace of silt, loose, sub rounded particles, well graded, brownish grey, damp.			
 END @ 4.6m				

SAMPLE TYPE	DEPTH		SAMPLE DESCRIPTION
	FROM	TO	
#56	0.4	0.7	
#57	1.3	1.6	
#58	2.3	2.6	
#59	3.3	3.6	
#60	4.3	4.6	

APPENDIX B

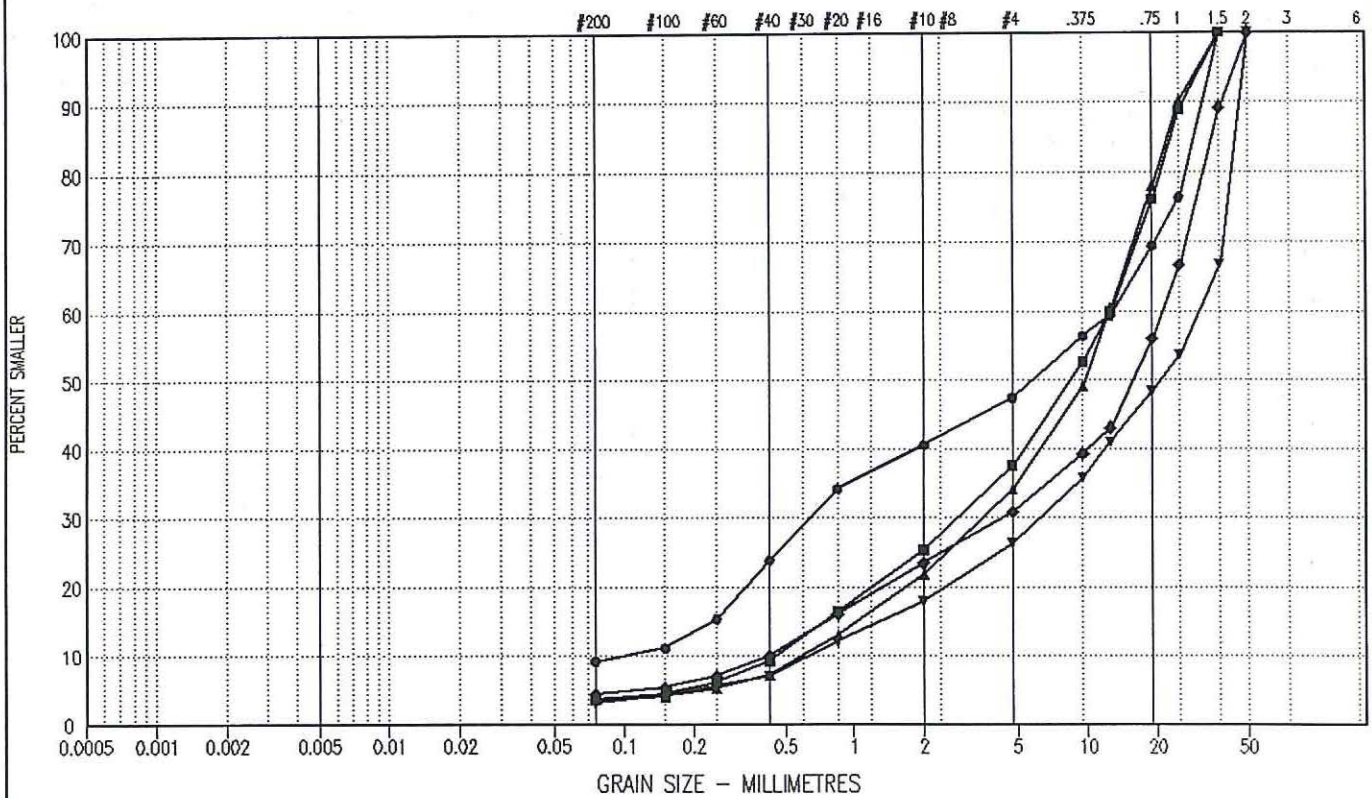
**ESElog (ESEbase) Drill Logs
Index Property Test Results (Grainsize Analysis)**

Geotechnical Services-Subsurface Invest.		CLIENT: Transportation Engineering		TEST PIT NO: 1200121-BC01											
Beaver Creek Airport		DRILL: CME 750 Solid Stem		PROJECT NO: 1200121											
Beaver Creek, YT		UTM ZONE: 7 N6919602 E507051		ELEVATION:											
SAMPLE TYPE <input checked="" type="checkbox"/> GRAB		<input type="checkbox"/> NO RECOVERY		<input checked="" type="checkbox"/> STANDARD PEN.											
		<input type="checkbox"/> 75 mm SPOON		<input type="checkbox"/> CRREL BARREL											
				<input type="checkbox"/> DISTURBED											
Depth(m)	SAMPLE TYPE	RUN NO	SOIL DESCRIPTION	STANDARD PENETRATION			PERCENT GRAVEL		PERCENT SAND		PERCENT SILT OR FINES		PERCENT CLAY		Depth(ft)
				10	20	30	20	40	60	80	20	40	60	80	
0.0			ORGANICS - grass, rootlets, brown, seasonal frost to 0.1 m												0.0
		1	GRAVEL - sandy, trace of silt, loose (est.), subrounded particles, well graded, brownish grey, damp												2.0
1.0		2													4.0
		3													6.0
2.0		4													8.0
		5													10.0
3.0															12.0
4.0															14.0
			END OF BOREHOLE 4.6 m												16.0
5.0			NOTE: Visible cobbles at the surface in the area												18.0
EBA Engineering Consultants Ltd.				LOGGED BY: CPC				COMPLETION DEPTH: 4.6 m							
Whitehorse, Yukon				REVIEWED BY: JRT				COMPLETE: 04/10/13							
								Page 1 of 1							

PARTICLE SIZE - ANALYSIS OF SOILS

CLAY	SILT	SAND			GRAVEL	
		FINE	MEDIUM	COARSE	FINE	COARSE

U.S. STANDARD SIEVE SIZES



SYMBOL	BOREHOLE NUMBER	DEPTH (m)	DESCRIPTION			Cu	Cc	U.S.C
			CLAY & SILT %	SAND %	GRAVEL %			
●	1200121-BC01	0.40 - 0.70	9	38	53	122.9	0.3	GP-GM
◆	1200121-BC01	1.30 - 1.60	4	26	69	49.9	2.2	GW
■	1200121-BC01	2.30 - 2.60	4	34	63	26.8	1.6	GW
▲	1200121-BC01	3.30 - 3.60	4	30	66	19.8	1.9	GW
▼	1200121-BC01	4.30 - 4.60	3	23	74	46.4	2.1	GW

Project: 0201-1200121

Date Tested: 04/10/18

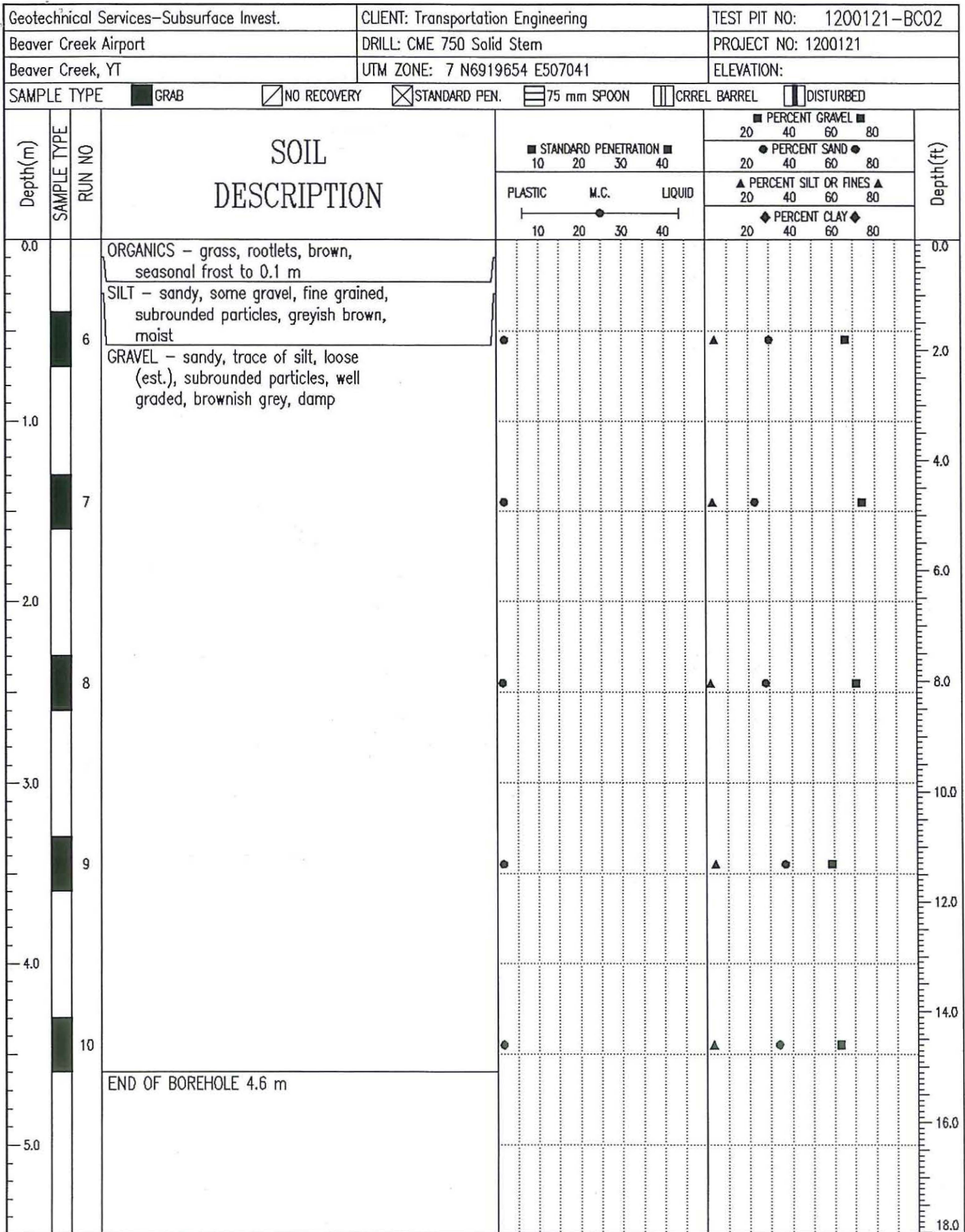
BY: MS

Tested in accordance with ASTM D422 unless otherwise noted.

Data presented hereon is for the sole use of the stipulated client. EBA is not responsible, nor can be held liable, for use made of this report by any other party, with or without the knowledge of EBA.

The testing services reported herein have been performed by an EBA technician to recognized industry standards, unless otherwise noted. No other warranty is made. These data do not include or represent any interpretation or opinion of specification compliance or material suitability. Should engineering interpretation be required, EBA will provide it upon written request.





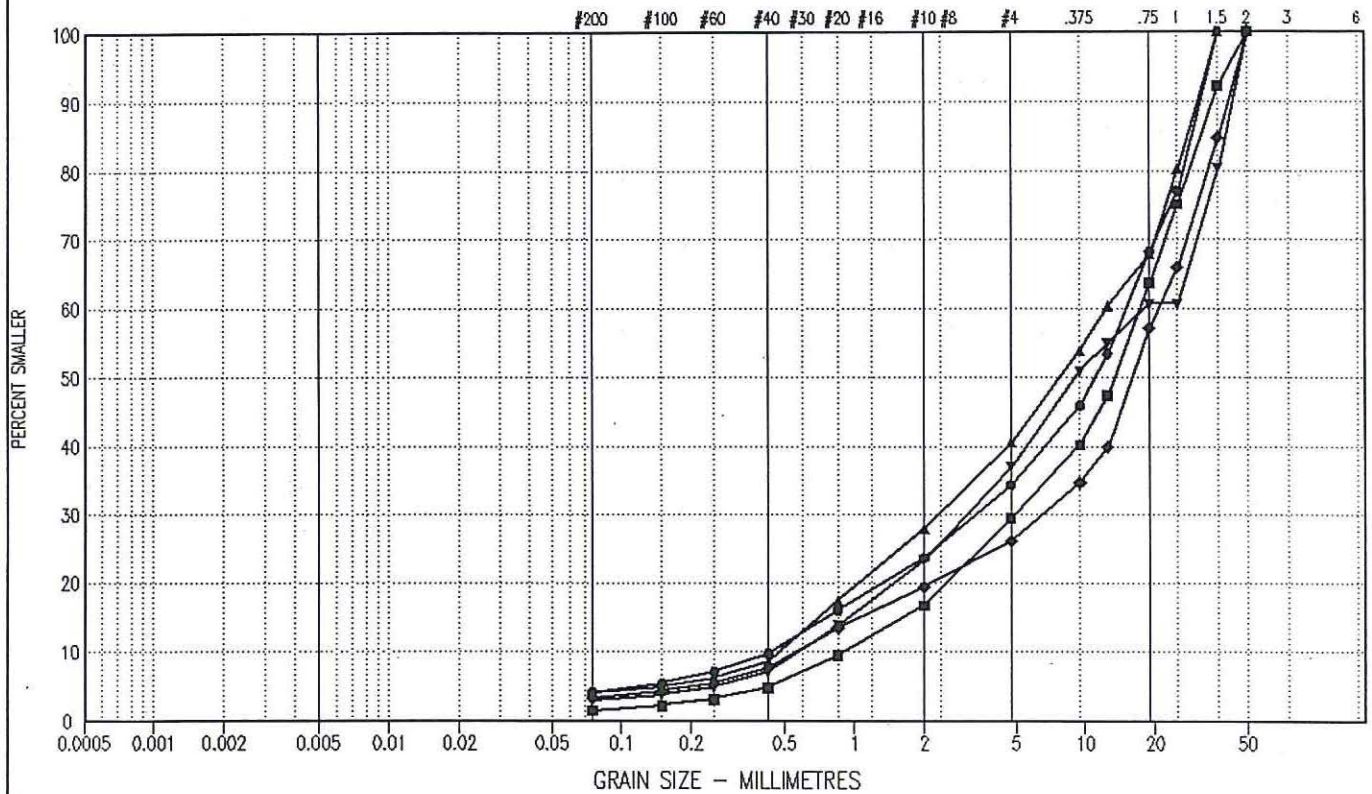
EBA Engineering Consultants Ltd.
Whitehorse, Yukon

LOGGED BY: CPC	COMPLETION DEPTH: 4.6 m
REVIEWED BY: JRT	COMPLETE: 04/10/13
Page 1 of 1	

PARTICLE SIZE - ANALYSIS OF SOILS

CLAY	SILT	SAND			GRAVEL	
		FINE	MEDIUM	COARSE	FINE	COARSE

U.S. STANDARD SIEVE SIZES



SYMBOL	BOREHOLE NUMBER	DEPTH (m)	DESCRIPTION			Cu	Cc	U.S.C
			CLAY & SILT %	SAND %	GRAVEL %			
○	1200121-BC02	0.40 - 0.70	4	30	66	34.9	1.9	GW
◇	1200121-BC02	1.30 - 1.60	3	23	74	34.8	3.8	GP
■	1200121-BC02	2.30 - 2.60	2	28	71	19.0	1.5	GW
▲	1200121-BC02	3.30 - 3.60	4	37	59	25.1	1.0	GP
▼	1200121-BC02	4.30 - 4.60	3	34	63	30.2	1.0	GW

Project: 0201-1200121

Date Tested: 04/10/18

BY: MS

Tested in accordance with ASTM D422 unless otherwise noted.

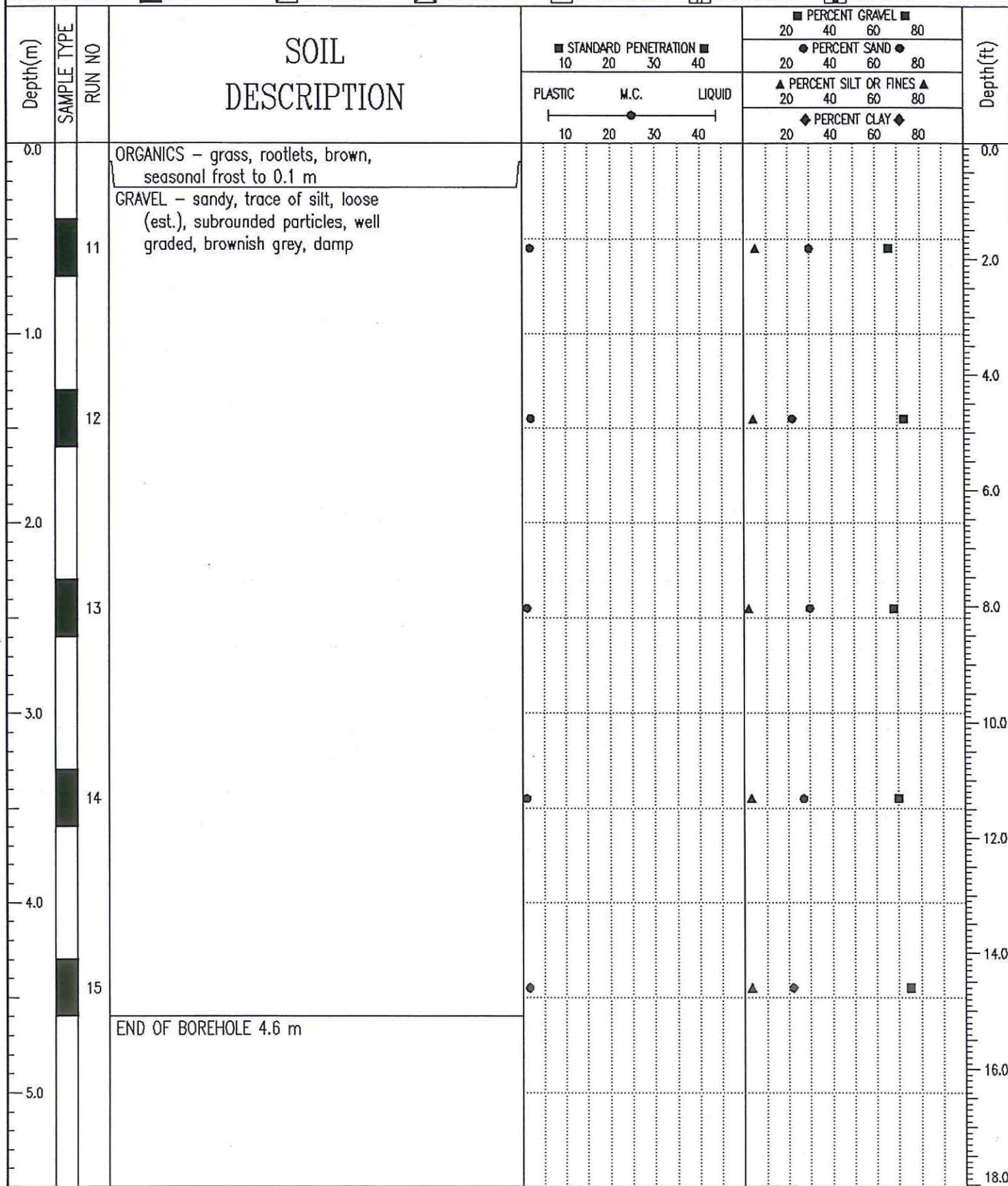
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Geotechnical Services-Subsurface Invest.	CLIENT: Transportation Engineering	TEST PIT NO: 1200121-BC03
Beaver Creek Airport	DRILL: CME 750 Solid Stem	PROJECT NO: 1200121
Beaver Creek, YT	UTM ZONE: 7 N6919685 E507012	ELEVATION:

SAMPLE TYPE GRAB NO RECOVERY STANDARD PEN. 75 mm SPOON CRREL BARREL DISTURBED



EBA Engineering Consultants Ltd.
Whitehorse, Yukon

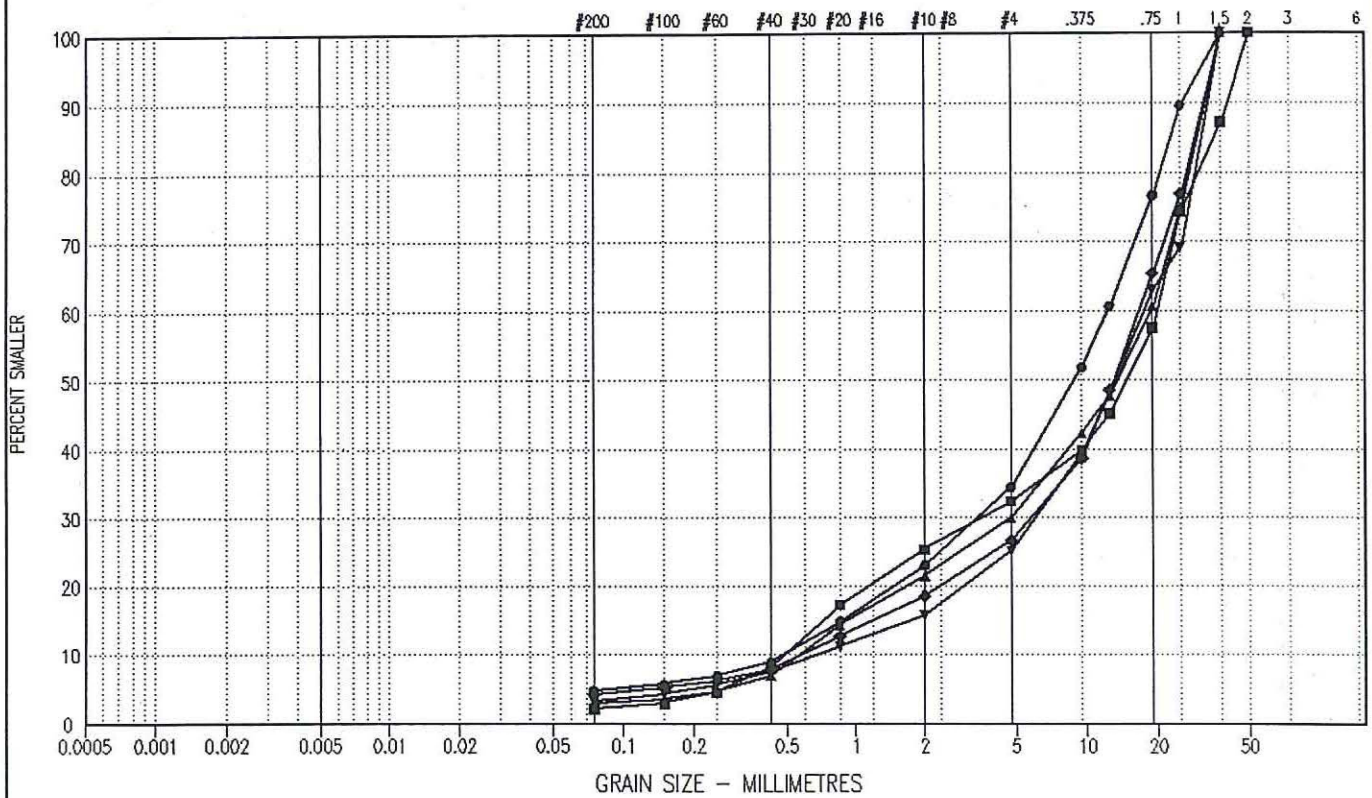
LOGGED BY: CPC
REVIEWED BY: JRT

COMPLETION DEPTH: 4.6 m
COMPLETE: 04/10/13

PARTICLE SIZE - ANALYSIS OF SOILS

CLAY	SILT	SAND			GRAVEL	
		FINE	MEDIUM	COARSE	FINE	COARSE

U.S. STANDARD SIEVE SIZES



SYMBOL	BOREHOLE NUMBER	DEPTH (m)	DESCRIPTION			Cu	Cc	U.S.C
			CLAY & SILT %	SAND %	GRAVEL %			
●—●	1200121-BC03	0.40 - 0.70	5	30	66	24.6	2.2	GW
◆—◆	1200121-BC03	1.30 - 1.60	4	22	73	27.5	3.5	GP
■—■	1200121-BC03	2.30 - 2.60	2	30	68	39.0	1.4	GW
▲—▲	1200121-BC03	3.30 - 3.60	3	27	70	31.2	2.0	GW
▼—▼	1200121-BC03	4.30 - 4.60	3	22	75	24.9	3.2	GP

Project: 0201-1200121

Date Tested: 04/10/18

BY: MS

Tested in accordance with ASTM D422 unless otherwise noted.

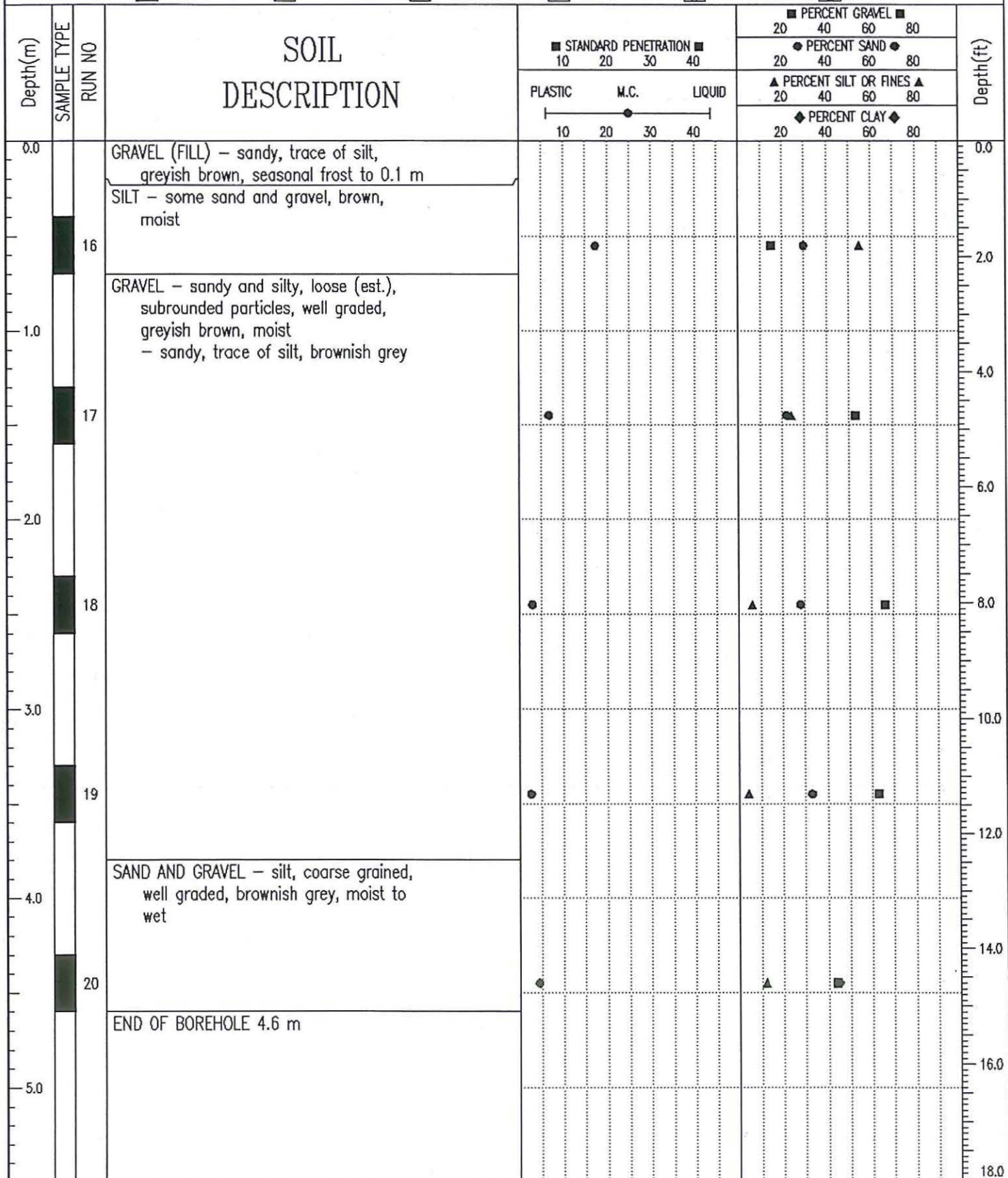
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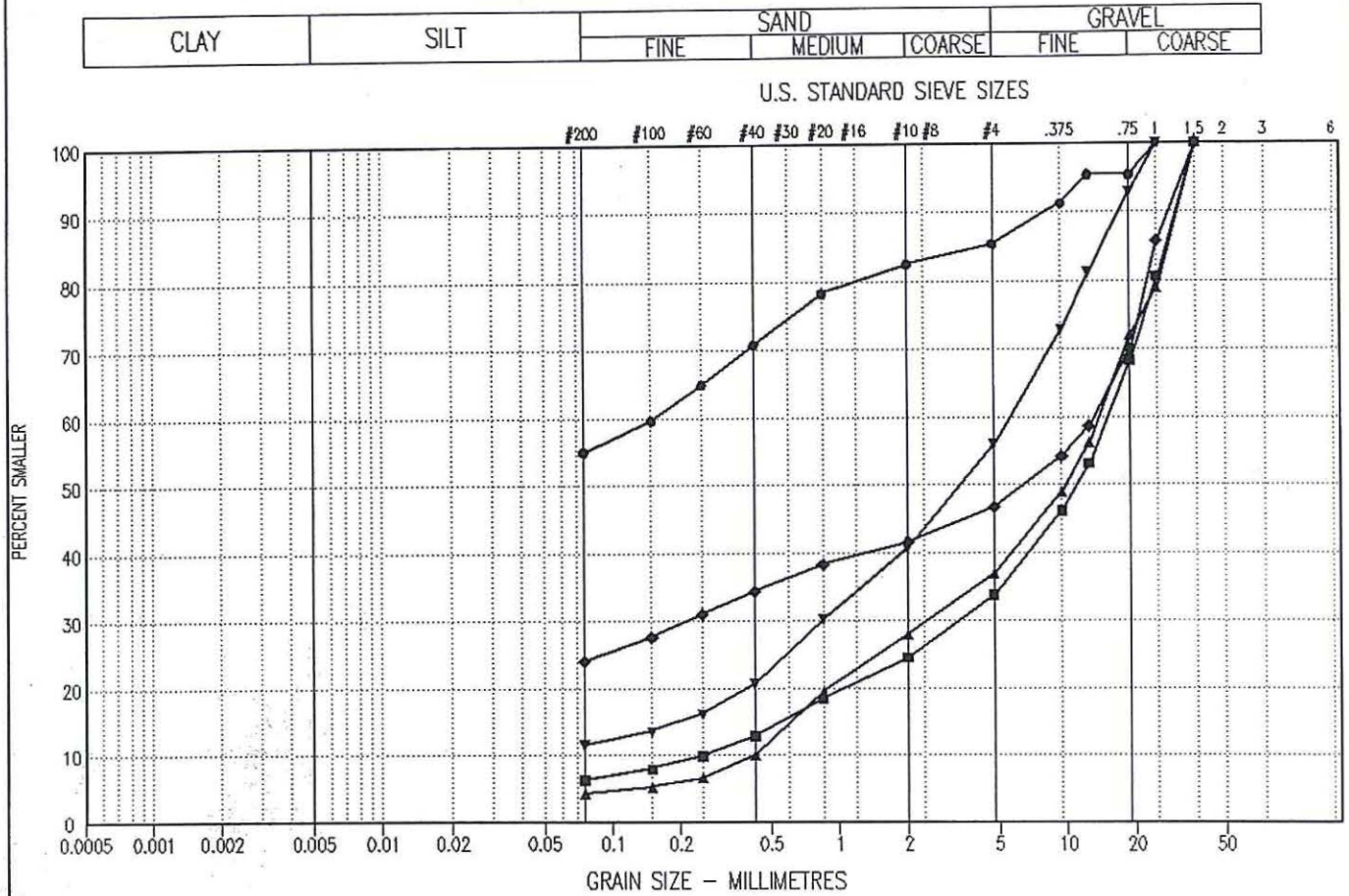
Geotechnical Services-Subsurface Invest.	CLIENT: Transportation Engineering	TEST PIT NO: 1200121-BC04
Beaver Creek Airport	DRILL: CME 750 Solid Stem	PROJECT NO: 1200121
Beaver Creek, YT	UTM ZONE: 7 N6920390 E506633	ELEVATION:

SAMPLE TYPE GRAB NO RECOVERY STANDARD PEN. 75 mm SPOON CRREL BARREL DISTURBED



EBA Engineering Consultants Ltd. Whitehorse, Yukon	LOGGED BY: CPC	COMPLETION DEPTH: 4.6 m
	REVIEWED BY: JRT	COMPLETE: 04/10/13

PARTICLE SIZE - ANALYSIS OF SOILS



SYMBOL	BOREHOLE NUMBER	DEPTH (m)	DESCRIPTION			Cu	Cc	U.S.C
			CLAY & SILT %	SAND %	GRAVEL %			
●—●	1200121-BC04	0.40 - 0.70	55	30	15	—	—	
◆—◆	1200121-BC04	1.30 - 1.60	24	22	53	—	—	
■—■	1200121-BC04	2.30 - 2.60	6	28	66	60.7	3.3	GP-GM
▲—▲	1200121-BC04	3.30 - 3.60	4	33	63	33.1	1.2	GW
▼—▼	1200121-BC04	4.30 - 4.60	12	45	44	—	7.6	SP-SM

Project: 0201-1200121

Date Tested: 04/10/18

BY: MS

Tested in accordance with ASTM D422 unless otherwise noted.

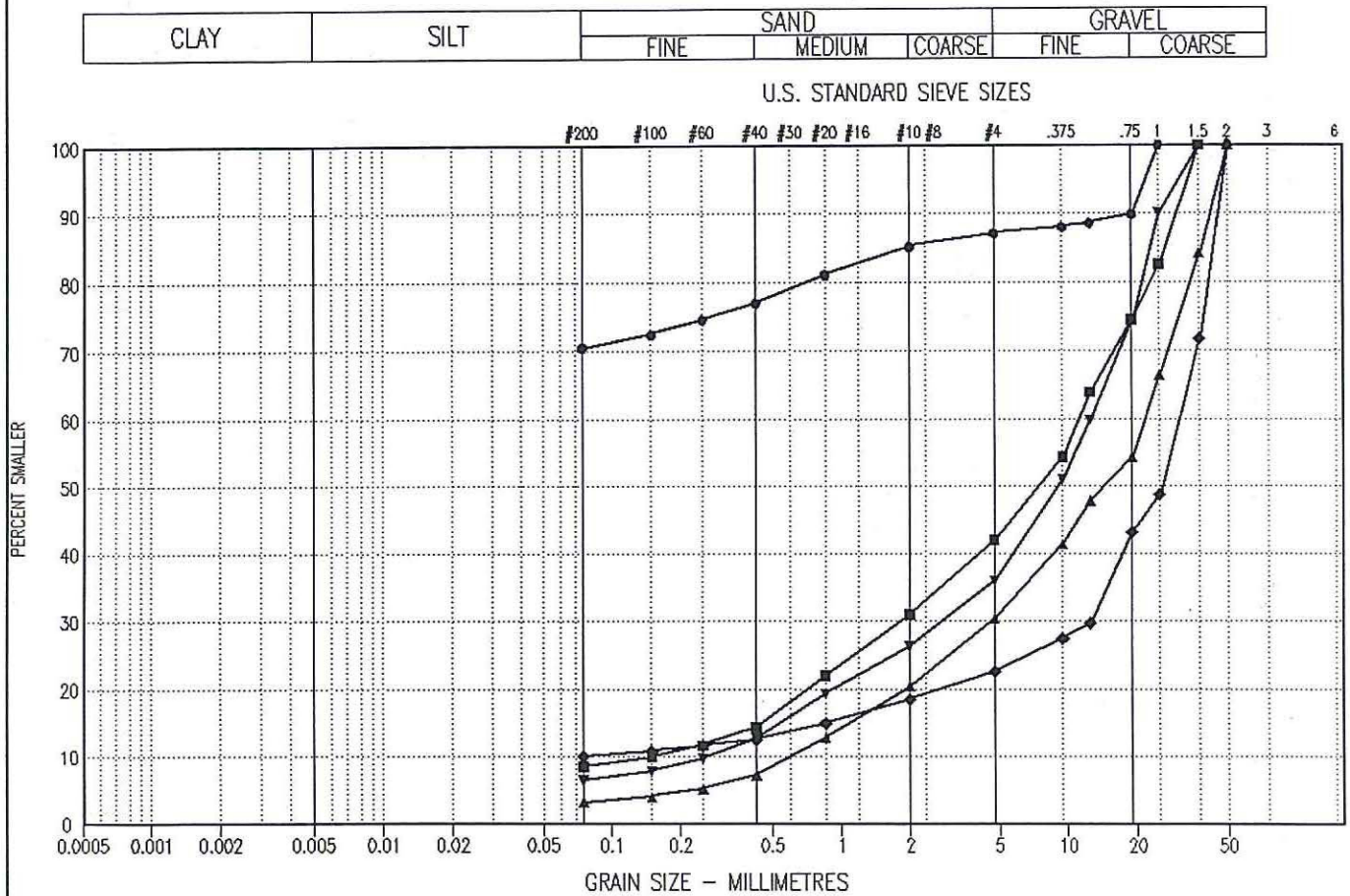
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Geotechnical Services-Subsurface Invest.		CLIENT: Transportation Engineering		TEST PIT NO: 1200121-BC05				
Beaver Creek Airport		DRILL: CME 750 Solid Stem		PROJECT NO: 1200121				
Beaver Creek, YT		UTM ZONE: 7 N6920531 E506581		ELEVATION:				
SAMPLE TYPE		<input checked="" type="checkbox"/> GRAB	<input type="checkbox"/> NO RECOVERY	<input checked="" type="checkbox"/> STANDARD PEN.	<input type="checkbox"/> 75 mm SPOON	<input type="checkbox"/> CRREL BARREL	<input type="checkbox"/> DISTURBED	
Depth(m)	SAMPLE TYPE	RUN NO	SOIL DESCRIPTION	<input checked="" type="checkbox"/> STANDARD PENETRATION <input type="checkbox"/> 10 20 30 40		<input type="checkbox"/> PERCENT GRAVEL <input type="checkbox"/> 20 40 60 80		Depth(ft)
				PLASTIC M.C. LIQUID -----●----- 10 20 30 40		<input type="checkbox"/> PERCENT SAND <input type="checkbox"/> 20 40 60 80		
0.0			GRAVEL (FILL) - sandy, some silt, seasonal frost to 0.1 m, brownish grey					0.0
		21	SILT - trace of sand and gravel, fine grained, brown, moist	●		■	●	2.0
1.0		22	GRAVEL - some sand, trace of silt, loose (est.), subrounded particles, well graded, brownish grey, damp	●		■	●	4.0
			- sandy					6.0
2.0		23		●		■	●	8.0
3.0		24		●		■	●	10.0
4.0		25		●		■	●	12.0
5.0			END OF BOREHOLE 4.6 m					14.0
								16.0
								18.0
EBA Engineering Consultants Ltd.				LOGGED BY: CPC		COMPLETION DEPTH: 4.6 m		
Whitehorse, Yukon				REVIEWED BY: JRT		COMPLETE: 04/10/13		
								Page 1 of 1

PARTICLE SIZE - ANALYSIS OF SOILS



SYMBOL	BOREHOLE NUMBER	DEPTH (m)	DESCRIPTION			Cu	Cc	U.S.C
			CLAY & SILT %	SAND %	GRAVEL %			
●	1200121-BC05	0.40 - 0.70	70	17	13	-	-	
◆	1200121-BC05	1.30 - 1.60	10	13	78	-	73.4	GP-GM
■	1200121-BC05	2.30 - 2.60	9	34	58	74.0	2.1	GW-GM
▲	1200121-BC05	3.30 - 3.60	3	27	70	34.4	1.5	GW
▼	1200121-BC05	4.30 - 4.60	7	29	64	47.7	2.8	GW-GM

Project: 0201-1200121

Date Tested: 04/10/18

BY: MS

Tested in accordance with ASTM D422 unless otherwise noted.

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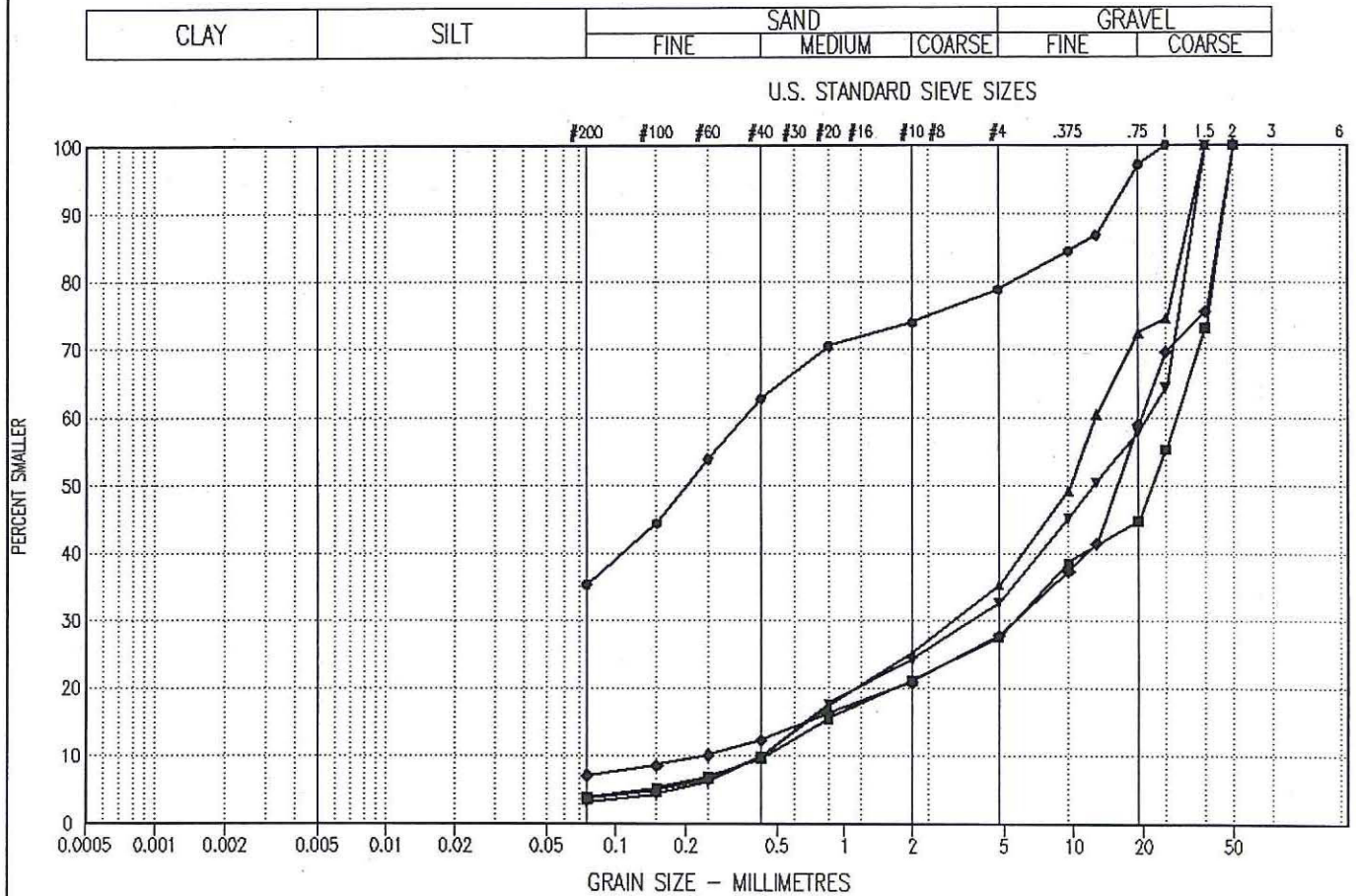


Geotechnical Services-Subsurface Invest.		CLIENT: Transportation Engineering	TEST PIT NO: 1200121-BC06								
Beaver Creek Airport		DRILL: CME 750 Solid Stem	PROJECT NO: 1200121								
Beaver Creek, YT		UTM ZONE: 7 N6920674 E506534	ELEVATION:								
SAMPLE TYPE <input checked="" type="checkbox"/> GRAB <input type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN. <input type="checkbox"/> 75 mm SPOON <input type="checkbox"/> CRREL BARREL <input type="checkbox"/> DISTURBED											
Depth(m)	SAMPLE TYPE	RUN NO	SOIL DESCRIPTION	STANDARD PENETRATION		PERCENT GRAVEL	PERCENT SAND	PERCENT SILT OR FINES	PERCENT CLAY	Depth(ft)	
				10	20	30	40	20	40		60
0.0			ORGANICS - grass, rootlets, brown, seasonal frost to 0.1 m SAND - some gravel, brown, moist							0.0	
0.26		26								0.26	
1.0			GRAVEL - sandy, trace of silt, loose (est.), subrounded particles, well graded, brownish grey, damp							1.0	
1.27		27								1.27	
2.0										2.0	
2.28		28								2.28	
3.0										3.0	
3.29		29								3.29	
4.0										4.0	
4.30		30								4.30	
5.0			END OF BOREHOLE 4.6 M							5.0	

EBA Engineering Consultants Ltd.
Whitehorse, Yukon

LOGGED BY: CPC	COMPLETION DEPTH: 4.6 m
REVIEWED BY: JRT	COMPLETE: 04/10/13

PARTICLE SIZE - ANALYSIS OF SOILS



SYMBOL	BOREHOLE NUMBER	DEPTH (m)	DESCRIPTION			Cu	Cc	U.S.C
			CLAY & SILT %	SAND %	GRAVEL %			
◆	1200121-BC06	0.40 - 0.70	35	44	21	-	-	
◇	1200121-BC06	1.30 - 1.60	7	21	72	81.3	7.3	GP-GM
■	1200121-BC06	2.30 - 2.60	4	24	73	62.1	2.6	GW
▲	1200121-BC06	3.30 - 3.60	4	32	65	28.5	2.0	GW
▼	1200121-BC06	4.30 - 4.60	3	29	67	48.7	1.7	GW

Project: 0201-1200121

Date Tested: 04/10/18

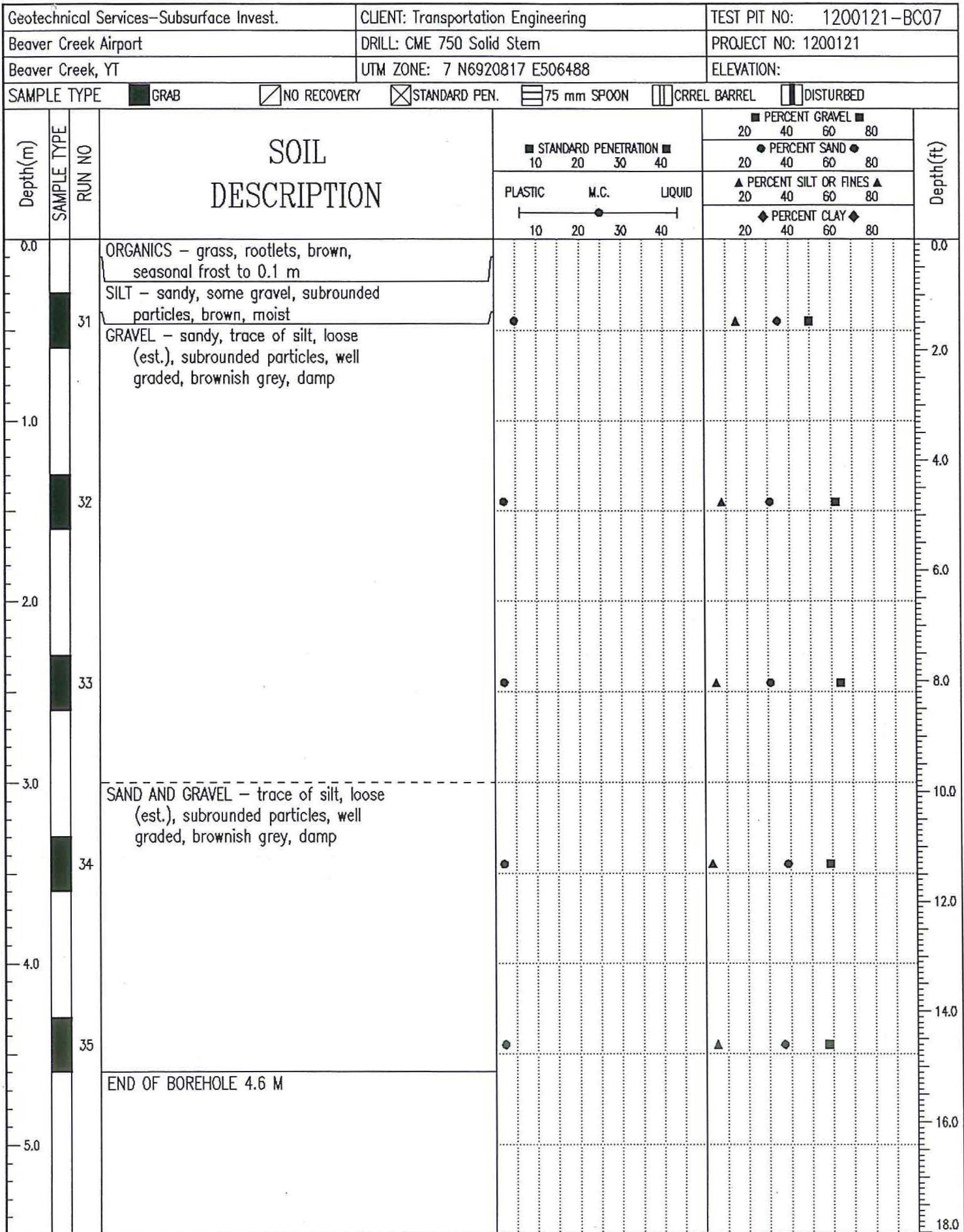
BY: MS

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Whitehorse, Yukon

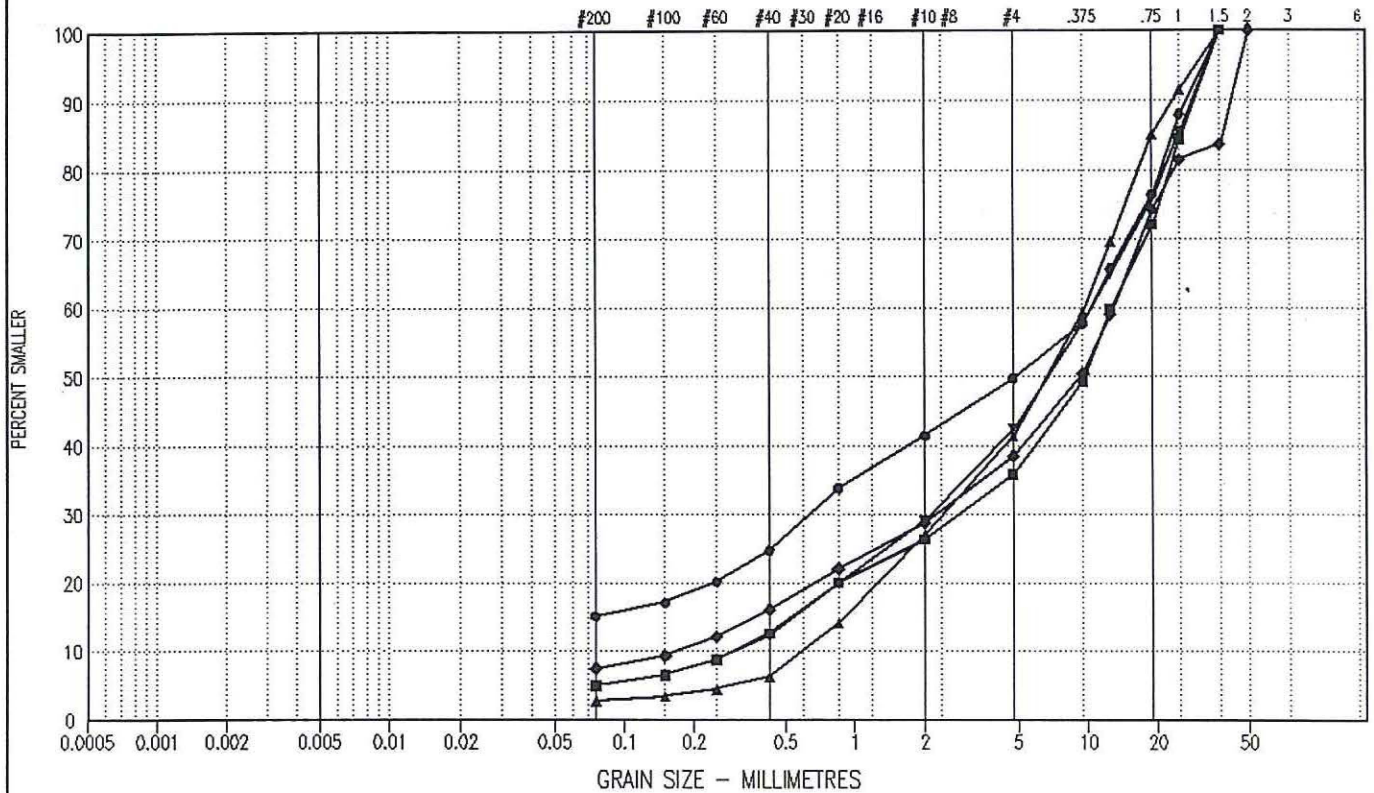
LOGGED BY: CPC
REVIEWED BY: JRT

COMPLETION DEPTH: 4.6 m
COMPLETE: 04/10/13

PARTICLE SIZE - ANALYSIS OF SOILS

CLAY	SILT	SAND			GRAVEL	
		FINE	MEDIUM	COARSE	FINE	COARSE

U.S. STANDARD SIEVE SIZES



SYMBOL	BOREHOLE NUMBER	DEPTH (m)	DESCRIPTION			Cu	Cc	U.S.C
			CLAY & SILT %	SAND %	GRAVEL %			
○	1200121-BC07	0.40 - 0.70	15	35	50	-	-	
◇	1200121-BC07	1.30 - 1.60	8	31	62	74.3	2.5	GW-GM
■	1200121-BC07	2.30 - 2.60	5	31	64	41.3	2.4	GW
▲	1200121-BC07	3.30 - 3.60	3	39	59	15.4	1.1	GW
▼	1200121-BC07	4.30 - 4.60	5	37	58	33.5	1.5	G

Project: 0201-1200121

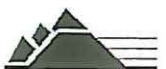
Date Tested: 04/10/18

BY: MS

Tested in accordance with ASTM D422 unless otherwise noted.

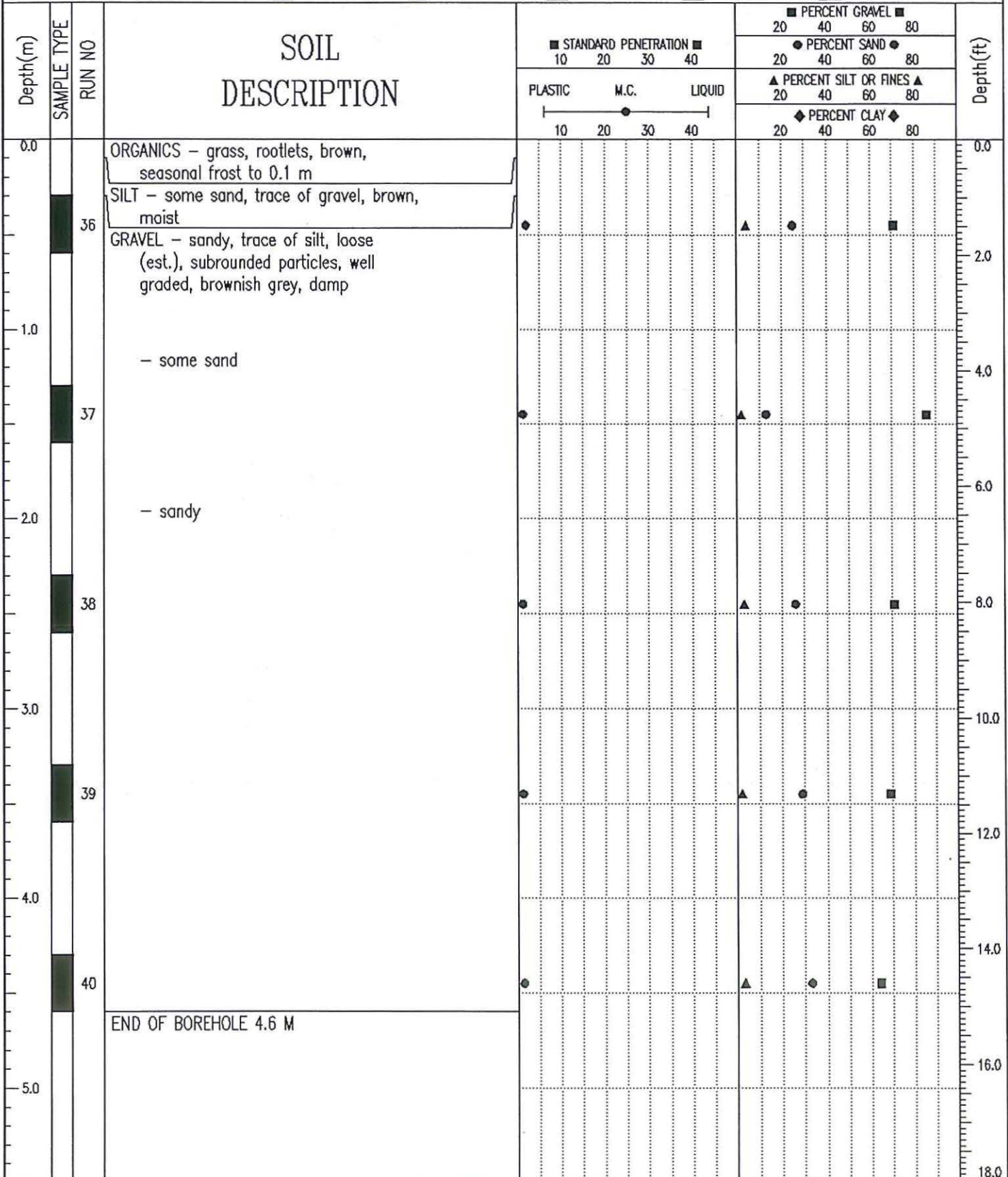
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Geotechnical Services-Subsurface Invest.	CLIENT: Transportation Engineering	TEST PIT NO: 1200121-BC08
Beaver Creek Airport	DRILL: CME 750 Solid Stem	PROJECT NO: 1200121
Beaver Creek, YT	UTM ZONE: 7 N6920878 E506432	ELEVATION:

SAMPLE TYPE GRAB NO RECOVERY STANDARD PEN. 75 mm SPOON CRREL BARREL DISTURBED

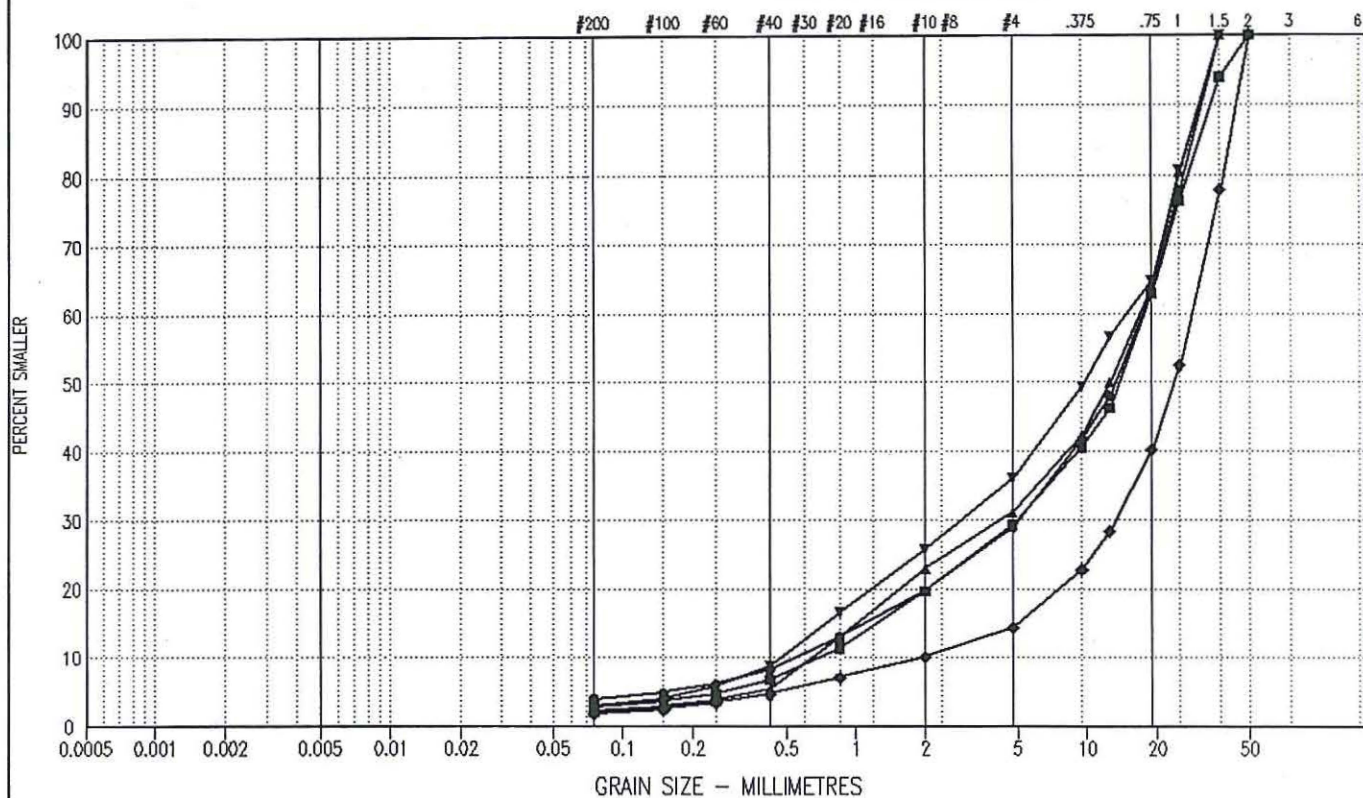


EBA Engineering Consultants Ltd. Whitehorse, Yukon	LOGGED BY: CPC	COMPLETION DEPTH: 4.6 m
	REVIEWED BY: JRT	COMPLETE: 04/10/13

PARTICLE SIZE - ANALYSIS OF SOILS

CLAY	SILT	SAND			GRAVEL	
		FINE	MEDIUM	COARSE	FINE	COARSE

U.S. STANDARD SIEVE SIZES



SYMBOL	BOREHOLE NUMBER	DEPTH (m)	DESCRIPTION			Cu	Cc	U.S.C
			CLAY & SILT %	SAND %	GRAVEL %			
●	1200121-BC08	0.40 - 0.70	4	25	71	30.3	2.6	GW
◆	1200121-BC08	1.30 - 1.60	2	13	86	14.6	3.2	GP
■	1200121-BC08	2.30 - 2.60	3	26	71	24.8	2.0	GW
▲	1200121-BC08	3.30 - 3.60	2	29	69	25.2	1.6	GW
▼	1200121-BC08	4.30 - 4.60	3	33	64	31.0	1.3	GW

Project: 0201-1200121

Date Tested: 04/10/18

BY: MS

Tested in accordance with ASTM D422 unless otherwise noted.

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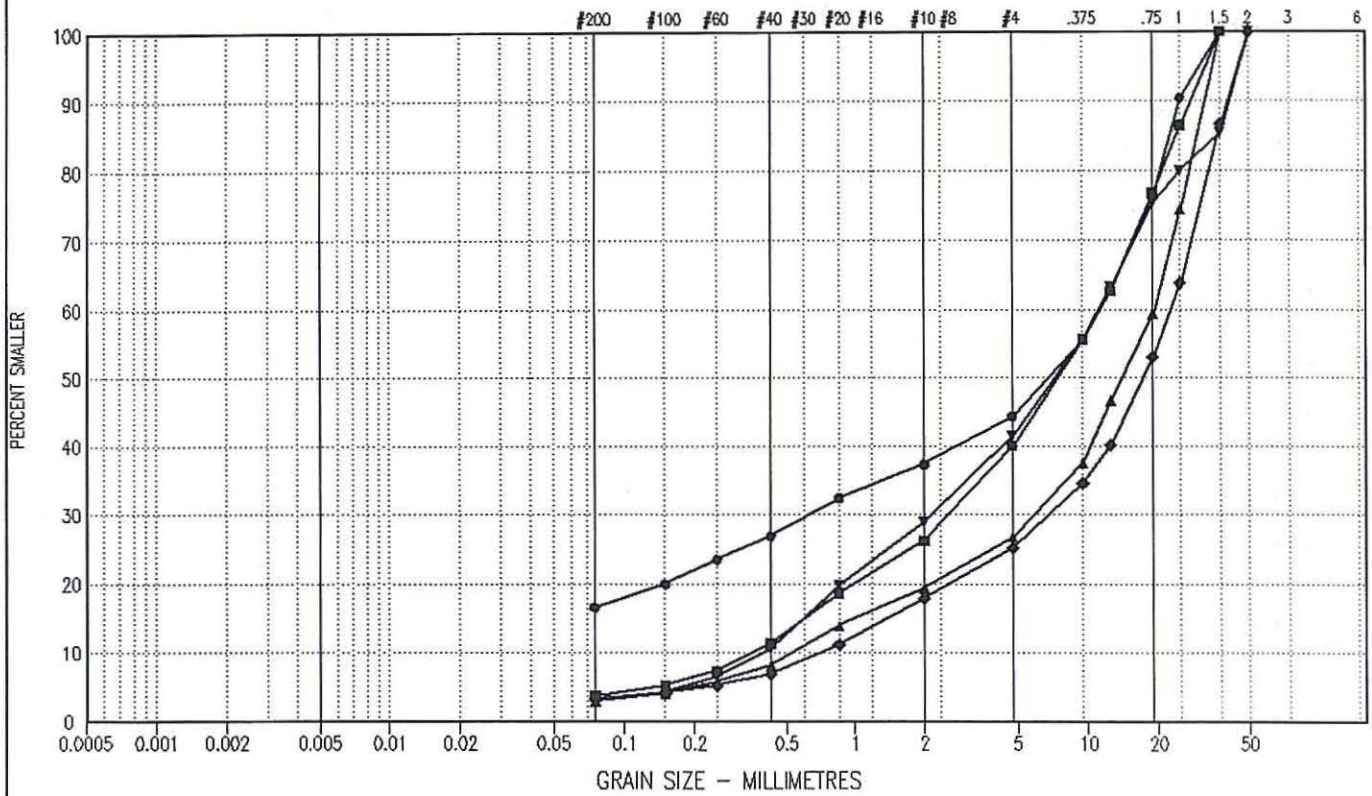


Geotechnical Services-Subsurface Invest.		CLIENT: Transportation Engineering		TEST PIT NO: 1200121-BC09							
Beaver Creek Airport		DRILL: CME 750 Solid Stem		PROJECT NO: 1200121							
Beaver Creek, YT		UTM ZONE: 7 N6920735 E506480		ELEVATION:							
SAMPLE TYPE		<input checked="" type="checkbox"/> GRAB	<input type="checkbox"/> NO RECOVERY	<input checked="" type="checkbox"/> STANDARD PEN.	<input type="checkbox"/> 75 mm SPOON	<input type="checkbox"/> CRREL BARREL	<input type="checkbox"/> DISTURBED				
Depth(m)	SAMPLE TYPE	RUN NO	SOIL DESCRIPTION	STANDARD PENETRATION		PERCENT GRAVEL	Depth(ft)				
				10	20	30		40	20	40	60
				PLASTIC M.C. LIQUID		PERCENT SAND					
				10	20	30	40	20	40	60	80
						PERCENT SILT OR FINES					
						20	40	60	80		
						PERCENT CLAY					
						20	40	60	80		
0.0			ORGANICS - grass, rootlets, brown, seasonal frost to 0.1 m							0.0	
		41	SILT - some sand and gravel, brown, damp	●		▲	●	■			
			GRAVEL - sandy, trace of silt, loose (est.), subrounded particles, well graded, brownish grey, damp							2.0	
1.0										4.0	
		42		●		▲	●	■		6.0	
2.0										8.0	
		43		●		▲	●	■		10.0	
3.0										12.0	
		44		●		▲	●	■		14.0	
4.0										16.0	
		45		●		▲	●	■		18.0	
5.0			END OF BOREHOLE 4.6 M								
EBA Engineering Consultants Ltd. Whitehorse, Yukon				LOGGED BY: CPC		COMPLETION DEPTH: 4.6 m					
				REVIEWED BY: JRT		COMPLETE: 04/10/13					

PARTICLE SIZE - ANALYSIS OF SOILS

CLAY	SILT	SAND			GRAVEL	
		FINE	MEDIUM	COARSE	FINE	COARSE

U.S. STANDARD SIEVE SIZES



SYMBOL	BOREHOLE NUMBER	DEPTH (m)	DESCRIPTION			Cu	Cc	U.S.C
			CLAY & SILT %	SAND %	GRAVEL %			
●—●	1200121-BC09	0.40 - 0.70	17	28	56	—	—	
◆—◆	1200121-BC09	1.30 - 1.60	3	22	75	31.1	3.1	GP
■—■	1200121-BC09	2.30 - 2.60	4	36	60	31.3	1.8	GW
▲—▲	1200121-BC09	3.30 - 3.60	3	24	73	34.6	3.5	GP
▼—▼	1200121-BC09	4.30 - 4.60	3	38	59	28.0	1.1	GW

Project: 0201-1200121

Date Tested: 04/10/18

BY: MS

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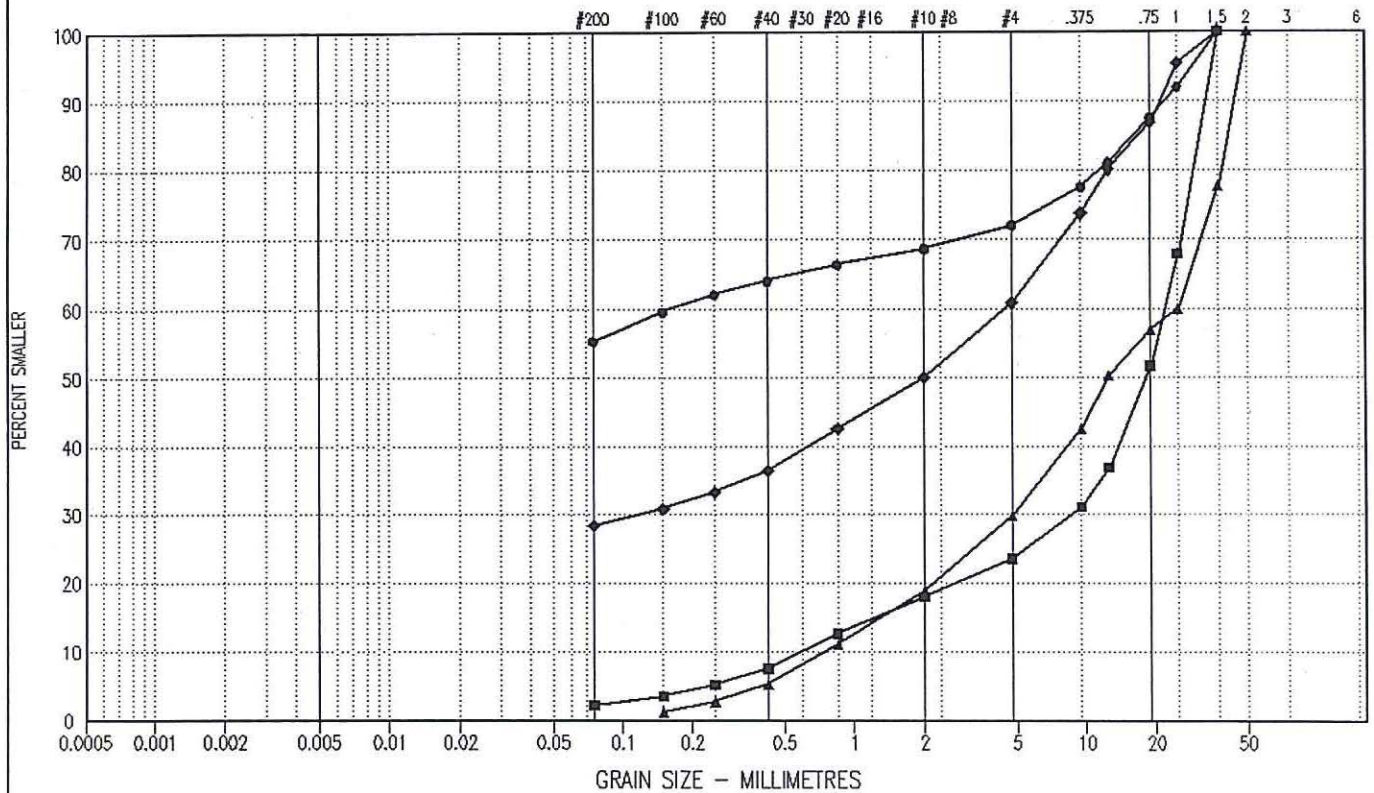


Geotechnical Services—Subsurface Invest.		CLIENT: Transportation Engineering		TEST PIT NO: 1200121-BC10			
Beaver Creek Airport		DRILL: CME 750 Solid Stem		PROJECT NO: 1200121			
Beaver Creek, YT		UTM ZONE: 7 N6920594 E506529		ELEVATION:			
SAMPLE TYPE		<input checked="" type="checkbox"/> GRAB <input checked="" type="checkbox"/> NO RECOVERY <input checked="" type="checkbox"/> STANDARD PEN. <input type="checkbox"/> 75 mm SPOON <input type="checkbox"/> CRREL BARREL <input type="checkbox"/> DISTURBED					
Depth(m)	SAMPLE TYPE	RUN NO	SOIL DESCRIPTION	<input checked="" type="checkbox"/> STANDARD PENETRATION <input type="checkbox"/> 10 20 30 40		Depth(ft)	
				PLASTIC M.C. LIQUID -----●----- 10 20 30 40	<input type="checkbox"/> PERCENT GRAVEL <input type="checkbox"/> 20 40 60 80 <input type="checkbox"/> PERCENT SAND <input type="checkbox"/> 20 40 60 80 <input type="checkbox"/> PERCENT SILT OR FINES <input type="checkbox"/> 20 40 60 80 <input type="checkbox"/> PERCENT CLAY <input type="checkbox"/> 20 40 60 80		
0.0			ORGANICS – grass, rootlets, brown, seasonal frost to 0.1 m			0.0	
		46	SILT – gravelly, some sand, subrounded particles, brown, damp			2.0	
1.0			GRAVEL – sandy and silty, loose (est.), subrounded particles, well graded, brown, damp			4.0	
		47	– trace of silt, brownish grey			6.0	
2.0						8.0	
		48				10.0	
3.0						12.0	
		49				14.0	
4.0						16.0	
		50	– no sample obtained			18.0	
5.0			END OF BOREHOLE 4.6 M				
EBA Engineering Consultants Ltd. Whitehorse, Yukon				LOGGED BY: CPC REVIEWED BY: JRT		COMPLETION DEPTH: 4.6 m COMPLETE: 04/10/13	

PARTICLE SIZE - ANALYSIS OF SOILS

CLAY	SILT	SAND			GRAVEL	
		FINE	MEDIUM	COARSE	FINE	COARSE

U.S. STANDARD SIEVE SIZES



SYMBOL	BOREHOLE NUMBER	DEPTH (m)	DESCRIPTION			Cu	Cc	U.S.C
			CLAY & SILT %	SAND %	GRAVEL %			
○	1200121-BC10	0.40 - 0.70	55	17	28	-	-	
◇	1200121-BC10	1.30 - 1.60	28	32	39	-	-	
■	1200121-BC10	2.30 - 2.60	2	21	77	35.3	5.6	GP
▲	1200121-BC10	3.30 - 3.60	0	30	70	32.6	1.2	GW

Project: 0201-1200121

Date Tested: 04/10/18

BY: MS

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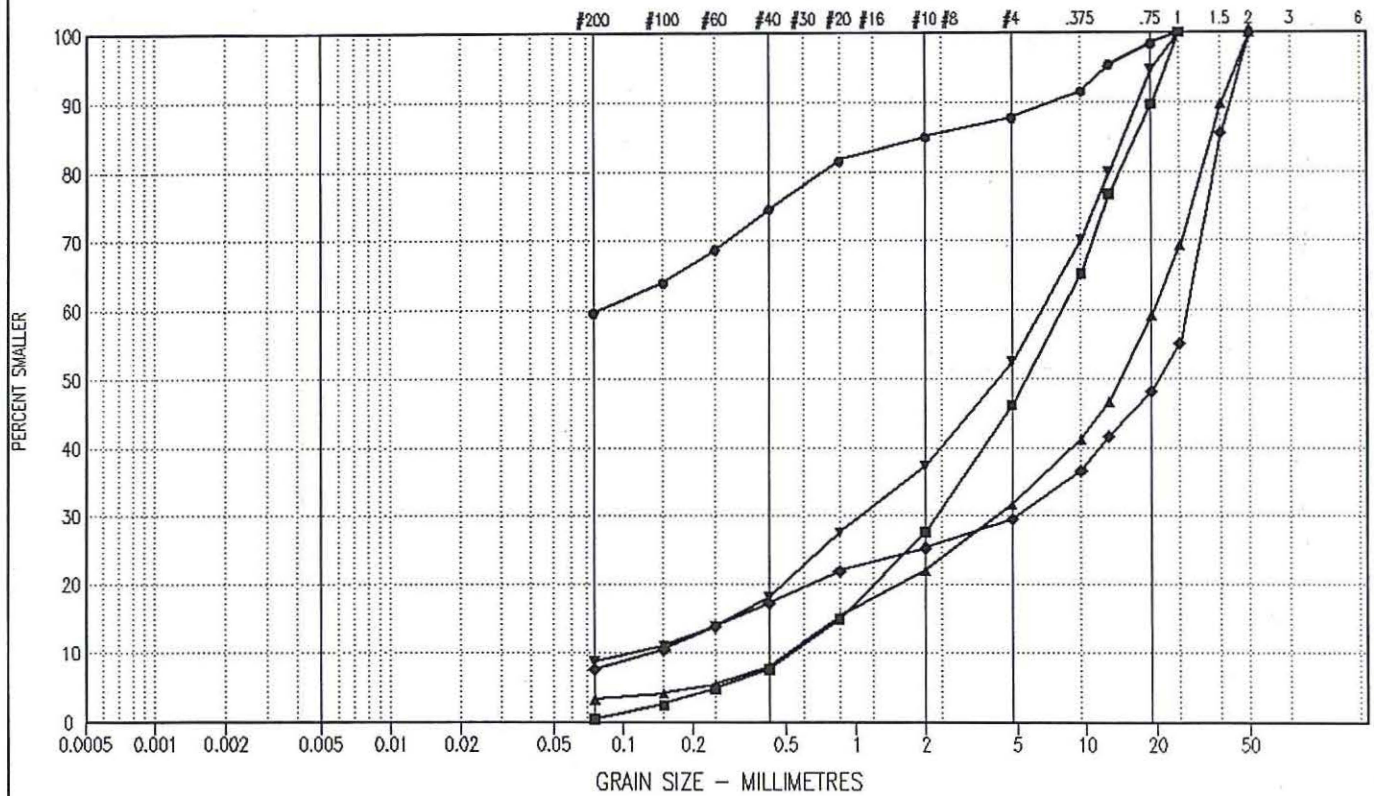


Geotechnical Services-Subsurface Invest.		CLIENT: Transportation Engineering		TEST PIT NO: 1200121-BC11										
Beaver Creek Airport		DRILL: CME 750 Solid Stem		PROJECT NO: 1200121										
Beaver Creek, YT		UTM ZONE: 7 N6920451 E506577		ELEVATION:										
SAMPLE TYPE		<input checked="" type="checkbox"/> GRAB	<input type="checkbox"/> NO RECOVERY	<input checked="" type="checkbox"/> STANDARD PEN.	<input type="checkbox"/> 75 mm SPOON	<input type="checkbox"/> CRREL BARREL	<input type="checkbox"/> DISTURBED							
Depth(m)	SAMPLE TYPE	RUN NO	SOIL DESCRIPTION		STANDARD PENETRATION		PERCENT GRAVEL		Depth(ft)					
					10	20	30	40		20	40	60	80	
					PLASTIC		PERCENT SAND							
					M.C.		PERCENT SILT OR FINES							
					LIQUID		PERCENT CLAY							
					10		20		40		60		80	
0.0			ORGANICS - grass, rootlets, brown, seasonal frost to 0.1 m											0.0
			SILT - sandy, some gravel, brown, moist											
		51												2.0
1.0			GRAVEL - sandy, trace of silt, loose, (est.), subrounded particles, well graded, brownish grey, moist to wet											4.0
			- grey											6.0
		52												8.0
2.0														10.0
														12.0
		53												14.0
3.0														16.0
														18.0
		54												
4.0														
		55												
5.0			END OF BOREHOLE 4.6 M											
EBA Engineering Consultants Ltd. Whitehorse, Yukon					LOGGED BY: CPC REVIEWED BY: JRT		COMPLETION DEPTH: 4.6 m COMPLETE: 04/10/13							

PARTICLE SIZE - ANALYSIS OF SOILS

CLAY	SILT	SAND			GRAVEL	
		FINE	MEDIUM	COARSE	FINE	COARSE

U.S. STANDARD SIEVE SIZES



SYMBOL	BOREHOLE NUMBER	DEPTH (m)	DESCRIPTION			Cu	Cc	U.S.C
			CLAY & SILT %	SAND %	GRAVEL %			
○	1200121-BC11	0.40 - 0.70	59	28	12	-	-	
◇	1200121-BC11	1.30 - 1.60	8	22	71	193.7	6.8	GP-GM
■	1200121-BC11	2.30 - 2.60	1	46	54	14.6	1.2	GW
▲	1200121-BC11	3.30 - 3.60	3	28	68	36.1	1.8	GW
▼	1200121-BC11	4.30 - 4.60	9	44	48	58.3	1.6	GW-GM

Project: 0201-1200121

Date Tested: 04/10/18

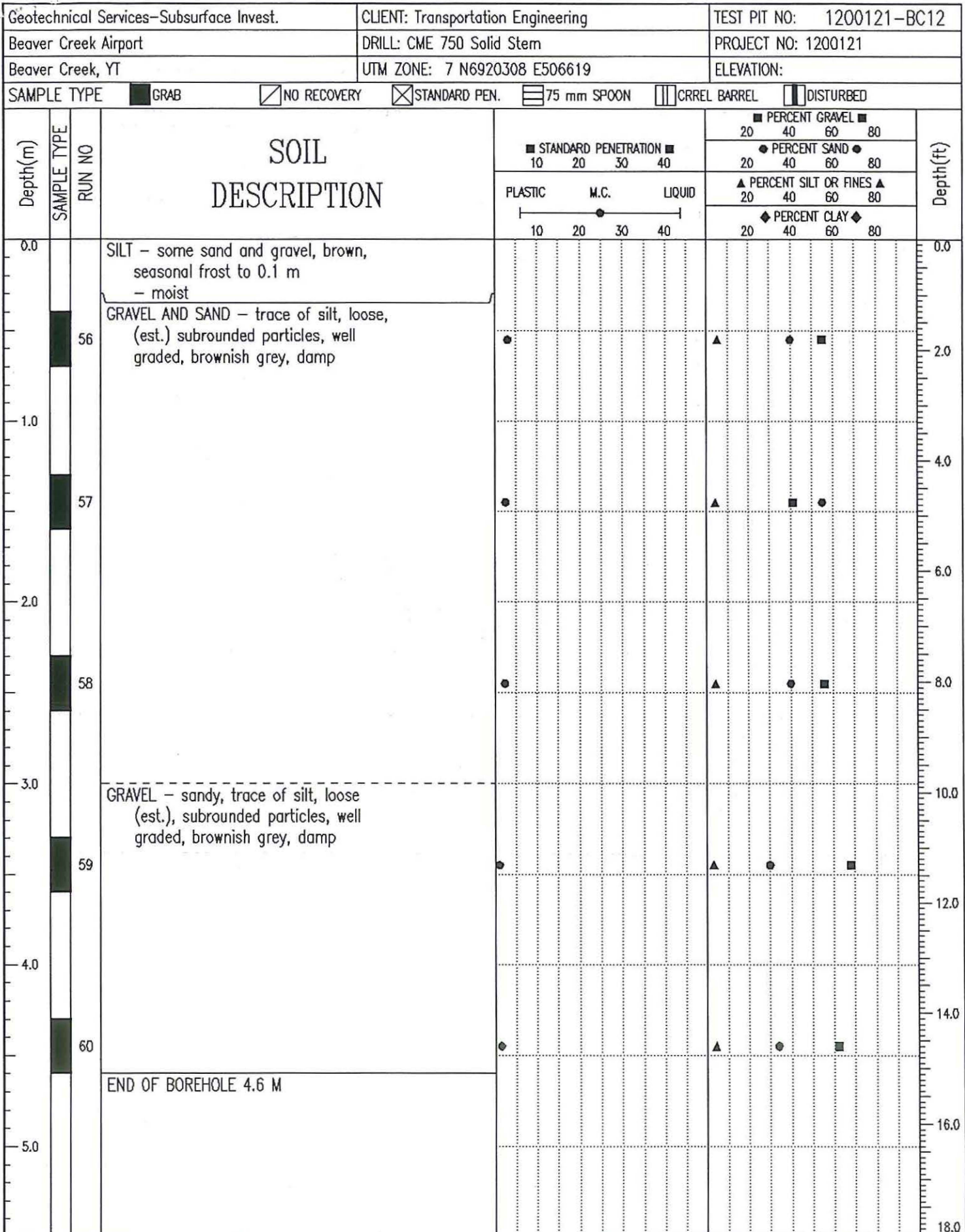
BY: MS

Tested in accordance with ASTM D422 unless otherwise noted.

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EBA Engineering Consultants Ltd.
Whitehorse, Yukon

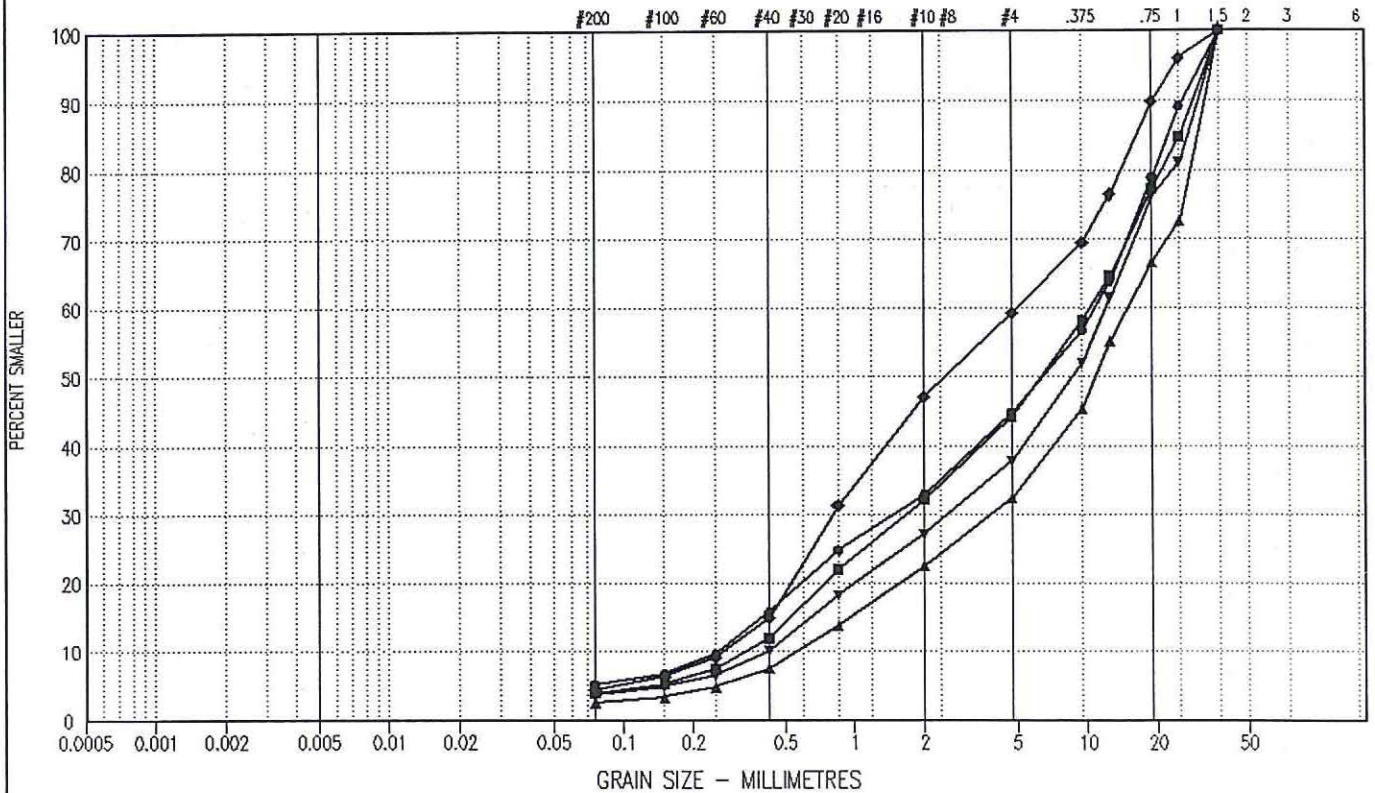
LOGGED BY: CPC
REVIEWED BY: JRT

COMPLETION DEPTH: 4.6 m
COMPLETE: 04/10/13

PARTICLE SIZE - ANALYSIS OF SOILS

CLAY	SILT	SAND			GRAVEL	
		FINE	MEDIUM	COARSE	FINE	COARSE

U.S. STANDARD SIEVE SIZES



SYMBOL	BOREHOLE NUMBER	DEPTH (m)	DESCRIPTION			Cu	Cc	U.S.C
			CLAY & SILT %	SAND %	GRAVEL %			
○—○	1200121-BC12	0.40 - 0.70	5	40	55	42.2	0.9	GP-GM
◇—◇	1200121-BC12	1.30 - 1.60	4	55	41	18.4	0.5	SP
■—■	1200121-BC12	2.30 - 2.60	4	40	56	29.7	0.8	GP
▲—▲	1200121-BC12	3.30 - 3.60	3	30	68	25.8	1.8	GW
▼—▼	1200121-BC12	4.30 - 4.60	4	34	62	28.7	1.5	GW

Project: 0201-1200121

Date Tested: 04/10/18

BY: MS

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