

EBA Engineering Consultants Ltd.

Civil, Geotechnical and Materials Engineers

ADDENDUM VOLUME
DEMPSTER HIGHWAY GRANULAR SOURCE
BOREHOLE LOG DATABASE
Test Hole Logs for Source 0377.8B
(Eagle River Bridge Area) and
Dempster Lateral Pipeline (No Source Number)

Submitted to: INAC JANUARY, 1990
EBA File No: 0201-4989



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Location Data Summary
Granular Resource Inventory
Dempster Highway Corridor, YT/NWT

BOREHOLE	REPORT NUMBER	SOURCE NUMBER	km POST (NOTE_3)
00948119	DHC-054	DEMPSTER LATERAL	SOURCE: km 9.4, 1000 m Right of Highway
02548120	DHC-054	DEMPSTER LATERAL	SOURCE: km 25.4, 950 m Right of Highway
02568121	DHC-054	DEMPSTER LATERAL	SOURCE: km 25.4, 1025 m Right of Highway
04058024	DHC-054	DEMPSTER LATERAL	SOURCE: km 40.5, 75 m Right of CL
04708025	DHC-054	DEMPSTER LATERAL	SOURCE: km 47.0, 200 m Right of Highway
04808026	DHC-054	DEMPSTER LATERAL	SOURCE: km 48.0, 65 m Left of Highway
05358123	DHC-054	DEMPSTER LATERAL	SOURCE: km 53.5, 200 m Right of Highway
06398124	DHC-054	DEMPSTER LATERAL	SOURCE: km 63.9, 300 m Right of Highway
06748027	DHC-054	DEMPSTER LATERAL	SOURCE: km 67.4, 75 m Right of Highway
07188028	DHC-054	DEMPSTER LATERAL	SOURCE: km 71.8, 75 m Right of Highway
07828029	DHC-054	DEMPSTER LATERAL	SOURCE: km 78.2, 610 m Right of Highway
08438032	DHC-054	DEMPSTER LATERAL	SOURCE: km 84.3, 340 m Left of Highway
08468031	DHC-054	DEMPSTER LATERAL	SOURCE: km 84.6, 100 m Left of Highway
08628033	DHC-054	DEMPSTER LATERAL	SOURCE: km 86.2, 425 m Left of Highway
09228125	DHC-054	DEMPSTER LATERAL	SOURCE: km 92.2, 320 m Left of Highway
09938034	DHC-054	DEMPSTER LATERAL	SOURCE: km 99.3, 200 m Left of Highway
10678126	DHC-054	DEMPSTER LATERAL	SOURCE: km 106.7, 250 m Right of Highway
11478129	DHC-054	DEMPSTER LATERAL	SOURCE: km 114.7, 150 m Left of Highway
12178130	DHC-054	DEMPSTER LATERAL	SOURCE: km 121.7, 5480 m Left of Highway
12908131	DHC-054	DEMPSTER LATERAL	SOURCE: km 129.0, 8800 m Left of Highway
15988132	DHC-054	DEMPSTER LATERAL	SOURCE: km 159.8, 100 m Right of Highway
17968133	DHC-054	DEMPSTER LATERAL	SOURCE: km 179.6, 700 m Right of Highway
18718134	DHC-054	DEMPSTER LATERAL	SOURCE: km 187.1, 200 m Left of Highway
19778135	DHC-054	DEMPSTER LATERAL	SOURCE: km 197.7, 3250 m Right of Hwy
19918137	DHC-054	DEMPSTER LATERAL	SOURCE: km 199.1, 100 m Right of Highway
20078138	DHC-054	DEMPSTER LATERAL	SOURCE: km 200.7, 400 m Right of Highway
20388139	DHC-054	DEMPSTER LATERAL	SOURCE: km 203.8, 100 m Left of Highway
20608140	DHC-054	DEMPSTER LATERAL	SOURCE: km 206.0, 1350 m Right of Hwy
21978143	DHC-054	DEMPSTER LATERAL	SOURCE: km 219.7, 300 m Right of Highway
22888144	DHC-054	DEMPSTER LATERAL	SOURCE: km 228.8, 1250 m Right of Hwy
22998145	DHC-054	DEMPSTER LATERAL	SOURCE: km 229.9, 1300 m Right of Hwy
23598148	DHC-054	DEMPSTER LATERAL	SOURCE: km 235.9, 3250 m Right of Hwy
23728149	DHC-054	DEMPSTER LATERAL	SOURCE: km 237.2, 3450 m Right of Hwy
24288150	DHC-054	DEMPSTER LATERAL	SOURCE: km 242.8, 2200 m Right of Hwy
25078152	DHC-054	DEMPSTER LATERAL	SOURCE: km 250.7, 600 m Right of Highway
25728155	DHC-054	DEMPSTER LATERAL	SOURCE: km 257.2, 3560 m Right of Hwy
35248163	DHC-054	DEMPSTER LATERAL	SOURCE: km 352.4, 100 m Left of Highway
38108166	DHC-054	DEMPSTER LATERAL	SOURCE: km 381.0, 470 m Left of Highway
38158167	DHC-054	DEMPSTER LATERAL	SOURCE: km 381.5, 370 m Left of Highway
43298171	DHC-054	DEMPSTER LATERAL	SOURCE: km 432.9, 500 m Left of Highway
43598172	DHC-054	DEMPSTER LATERAL	SOURCE: km 435.9, 250 m Left of Highway
46508174	DHC-054	DEMPSTER LATERAL	SOURCE: km 465.0, 100 m Left of Highway



Location Data Summary
Granular Resource Inventory
Dempster Highway Corridor, YT/NWT

BOREHOLE	REPORT NUMBER	SOURCE NUMBER	km POST (NOTE_3)
4359B172	DHC-054	DEMPSTER LATERAL	SOURCE: km 435.9, 250 m Left of Highway
4650B174	DHC-054	DEMPSTER LATERAL	SOURCE: km 465.0, 100 m Left of Highway
4667B176	DHC-054	DEMPSTER LATERAL	SOURCE: km 466.7, 1800 m Left of Highway
6670B197	DHC-054	DEMPSTER LATERAL	SOURCE: km 667.0, 650 m Right of Highway
6900B199	DHC-054	DEMPSTER LATERAL	SOURCE: km 690.0, 2000 m Right of Hwy
4999B179	DHC-054	DEMPSTER LATERAL	SOURCE: km 499.9, 100 m Left of Highway
6480B195	DHC-054	DEMPSTER LATERAL	SOURCE: km 648.0, 1500 m Left of Highway
3778B001	DHC-017	0377.8B	SOURCE: km 377.8, YT, Centreline
3778B002	DHC-017	0377.8B	SOURCE: km 377.8, YT, Centreline
3778B003	DHC-017	0377.8B	SOURCE: km 377.8, YT, Centreline
3778B004	DHC-017	0377.8B	SOURCE: km 377.8, YT, Centreline
3778B005	DHC-017	0377.8B	SOURCE: km 377.8, YT, Centreline
3778B006	DHC-017	0377.8B	SOURCE: km 377.8, YT, Centreline
3778B007	DHC-017	0377.8B	SOURCE: km 377.8, YT, Centreline
3778B008	DHC-017	0377.8B	SOURCE: km 377.8, YT, Centreline
3778BR11	DHC-017	0377.8B	SOURCE: km 377.8, YT, Centreline
3778BR12	DHC-017	0377.8B	SOURCE: km 377.8, YT, Centreline
3778BR13	DHC-017	0377.8B	SOURCE: km 377.8, YT, Centreline
3778BR14	DHC-017	0377.8B	SOURCE: km 377.8, YT, Centreline
3780BNE3	DHC-017	0377.8B	SOURCE: km 378.0, YT, 6 m L OF HIGHWAY
3788BNE6	DHC-017	0377.8B	SOURCE: km 378.8, YT, 450 m L OF HIGHWAY
3788BNE7	DHC-017	0377.8B	SOURCE: km 378.8, YT, 450 m L OF HIGHWAY
3788BNE8	DHC-017	0377.8B	SOURCE: km 378.8, YT, 450 m L OF HIGHWAY
3788BNE9	DHC-017	0377.8B	SOURCE: km 378.8, YT, 450 m L OF HIGHWAY
3911B058	DHC-017	0377.8B	SOURCE: km 391.1, YT, CENTRELINE OF HWY
3936B049	DHC-017	0377.8B	SOURCE: km 393.6, YT, CENTRELINE OF HWY



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DEMSPETER HIGHWAY CORRIDOR		SOURCE: km 9.4, 1000 m Right of Highway		BOREHOLE No. 0094B119	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 7 N7101450.00 E610300.00		Project No: 0201-4989	
DIAND		ORIGINAL BOREHOLE NUMBER 78-119		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB		☒ NO RECOVERY		☒ STANDARD PEN.	
		☒ 75 mm SPOON		☐ 75 mm CRREL	
				☐ 100 mm CRREL	

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID			PERCENT FINES SAND GRAVEL			DEPTH (ft)
					20 40 60 80	20 40 60 80	20 40 60 80	20 40 60 80	20 40 60 80		
0.0		1	ORGANIC COVER - moss								0.0
		2	NF at 0.0 to 0.5 m								2.0
		3	SILT (ML) - some fine sand, trace of gravel, non to slight plasticity, sand lenses, organic pockets, grey and rusty brown, ice lenses 1/4 mm to 1 mm spaced at 5 mm - 50 mm to a depth of 2.8 m								4.0
		4									6.0
		5	Nbn,Vs,Vr at 0.5 to 3.5 m	ML							8.0
		6									10.0
		7									12.0
		8									14.0
		9									16.0
		10									18.0
		11	- organic laminations								20.0
		12	Nbn,Nbe,Vr at 3.5 to 7.1 m	ML							22.0
		13									24.0
		14									26.0
		15									28.0
		16									30.0
		17									32.0
		18									
		19									
		20									
		21									
		22	GRAVEL (GM/GP) - coarse to fine, sandy, some silt Vx,Vc at 7.1 to 8.5 m								
		23	SILT AND CLAY (ML/CL) - low plasticity, grey with orange rust spots Nbe at 8.5 to 9.1 m								
			GRAVEL (GP) - coarse to fine Vx at 9.1 to 9.5 m								
			END OF BOREHOLE AT 9.5 m								

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DEMSPTER HIGHWAY CORRIDOR		SOURCE: km 25.4, 950 m Right of Highway		BOREHOLE No. 0254B120	
GRANDULAR RESOURCE INVENTORY		UTM ZONE: 7 N7116250.00 E620350.00		Project No: 0201-4989	
DIAND		ORIGINAL BOREHOLE NUMBER 78-120		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB ☐ NO RECOVERY ☒ STANDARD PEN. ☐ 75 mm SPOON ☐ 75 mm CRREL ☐ 100 mm CRREL					

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID			PERCENT FINES			DEPTH (ft)
					20 40 60 80	20 40 60 80	20 40 60 80	20 40 60 80	20 40 60 80		
0.0			PEAT - fibrous, brown NF at 0.0 to 0.3 m								0.0
1.0		1	ORGANIC SILT AND CLAY (OL) - trace fine sand, non to slight plasticity, peat inclusions, grey and brown layers, ice lenses 1/4 - 18 mm spaced at 1/4 - 50 mm								2.0
2.0		2									4.0
3.0		3									6.0
4.0		4									8.0
5.0		5									10.0
6.0		6									12.0
7.0		7									14.0
8.0		8									16.0
9.0		9									18.0
10.0		10	SILT (ML) - gravelly, trace sand, non to slight plasticity, organic lenses, brown, ice lenses 1/4 - 1/2 mm spaced at 1/2 - 20 mm								20.0
11.0		11									22.0
12.0		12									24.0
13.0		13									26.0
14.0			Nbn at 3.0 to 3.5 m								28.0
15.0			Nbn at 3.5 to 5.8 m								30.0
16.0			GRAVEL (GP) - coarse to fine, coarser drilling								32.0
17.0											
18.0											
19.0											
20.0											
21.0											
22.0											
23.0											
24.0											
25.0											
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100.0											

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DEMSPTER HIGHWAY CORRIDOR		SOURCE: km 25.4, 1025 m Right of Highway		BOREHOLE No. 0256B121	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 7 N7116500.00 E620425.00		Project No: 0201-4989	
DIAND		ORIGINAL BOREHOLE NUMBER 78-121		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB		☒ NO RECOVERY		☒ STANDARD PEN.	
		☐ 75 mm SPOON		☐ 75 mm CRREL	
				☐ 100 mm CRREL	

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID			PERCENT FINES			DEPTH (ft)
					20	40	60	80	20	40	
0.0			NF at 0.0 to 0.1 m								0.0
		1	Vr,Vx,Nbe at 0.1 to 1.1 m								
		2	PEAT (PT) - amorphous and granular, dark brown, ice lenses 1 - 5 mm spaced at 1 - 15 mm								
		3									
1.0		4	ORGANIC SILT (OL) - trace to some fine sand, slight plasticity, stratified, grey, ice lenses 1/4 - 4 mm spaced at 1 - 20 mm,								
		5	- ice lenses 3 - 10 mm spaced at 2 - 5 mm								
		6									
2.0		7									
			Vr,Vs,Nbe at 1.1 - 2.5 m								
			GRAVEL (GP) - coarse to fine, coarser drilling below 2.5 m								
3.0			Nbn at 2.5 - 5.6 m								
4.0											
5.0											
6.0			END OF BOREHOLE AT 5.6 m								
7.0											
8.0											
9.0											
10.0											

EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 5.6 m	COMPLETE 78/07/16
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DEMPSTER HIGHWAY CORRIDOR		SOURCE: km 40.5, 75 m Right of CL		BOREHOLE No. 0405B024	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 7 N7130175.00 E621800.00		Project No: 0201-4989	
DIAND		ORIGINAL BOREHOLE NUMBER 78-24		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB ☒ NO RECOVERY ☒ STANDARD PEN. ☒ 75 mm SPOON ☐ 75 mm CRREL ☐ 100 mm CRREL					

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID			▲ PERCENT FINES ▲ 20 40 60 80 ● PERCENT SAND ● 20 40 60 80 ■ PERCENT GRAVEL ■ 20 40 60 80			DEPTH (ft)
					20	40	60	80	20	40	
0.0	☒	1	TOP SOIL NF at 0.0 to 4.6 m								0.0
			SILT (ML) - some sand to sandy, trace of gravel, fine to coarse, non to slightly plasticity, massive structure, grey								2.0
-1.0	☒	2									4.0
-2.0	☒	3	GRAVEL AND SAND (GM/GW) - trace of silt and clay, organic pockets, very dense, grey - cobbles and boulders	GM/GW							6.0
-3.0	☒	4									8.0
-4.0											10.0
-5.0	☒	5									12.0
	☒	6	END OF BOREHOLE AT 4.6 m								14.0
-6.0											16.0
-7.0											18.0
-8.0											20.0
-9.0											22.0
-10.0											24.0
											26.0
											28.0
											30.0
											32.0

EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 4.6 m		COMPLETE 78/07/15	
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DEMPSTER HIGHWAY CORRIDOR		SOURCE: km 47.0, 200 m Right of Highway		BOREHOLE No. 0470B025	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 7 N7136280.00 E623450.00		Project No: 0201-4989	
DIAND		ORIGINAL BOREHOLE NUMBER 78-25		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB		☒ NO RECOVERY		☒ STANDARD PEN.	
		☐ 75 mm SPOON		☐ 75 mm CRREL	
				☐ 100 mm CRREL	

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID 20 40 60 80	▲ PERCENT FINES ▲ 20 40 60 80 ● PERCENT SAND ● 20 40 60 80 ■ PERCENT GRAVEL ■ 20 40 60 80	DEPTH (ft)
0.0		1	ORGANIC SILT AND MOSS NF at 0.0 to 3.5 m		●		0.0
			SILT (ML) - trace of fine sand, trace of fine gravel, rootlets, non to slightly plasticity, brown				2.0
1.0		2	GRAVEL (GM) - silty, some sand, medium to coarse, trace of shale fragments, very dense, grey		●		4.0
2.0							6.0
3.0		3					8.0
			END OF BOREHOLE AT 3.5 m	GM	●	▲ ■	10.0
4.0							12.0
5.0							14.0
6.0							16.0
7.0							18.0
8.0							20.0
9.0							22.0
10.0							24.0
							26.0
							28.0
							30.0
							32.0

EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 3.5 m		COMPLETE 78/07/16	
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DEMPSTER HIGHWAY CORRIDOR		SOURCE: km 48.0, 65 m Left of Highway		BOREHOLE No. 0480B026	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 7 N7137125.00 E623725.00		Project No: 0201-4989	
DIAND		ORIGINAL BOREHOLE NUMBER 78-26		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB ☐ NO RECOVERY ☒ STANDARD PEN. ☐ 75 mm SPOON ☐ 75 mm CRREL ☐ 100 mm CRREL					

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID			▲ PERCENT FINES ▲ 20 40 60 80 ● PERCENT SAND ● 20 40 60 80 ■ PERCENT GRAVEL ■ 20 40 60 80			DEPTH (ft)
					20	40	60	80	20	40	
0.0			PEAT - fibrous NF at 0.0 to 7.0 m								0.0
		1	SILT (ML) - fine sand, rootlets, massive structure, brown								2.0
-1.0		2									
		3	- silt and sand (fine to medium) laminations - cobbles at 2.0 m								4.0
-2.0		4	GRAVEL AND SAND GM/GW) - trace silt, grey								6.0
		5		GM/GW							8.0
-3.0		6									10.0
		7	- cobbles or boulders								12.0
-4.0		8	- fine sand lens - boulders								14.0
-5.0											16.0
-6.0											18.0
-7.0			END OF BOREHOLE AT 7.0 m								20.0
-8.0											22.0
-9.0											24.0
-10.0											26.0
											28.0
											30.0
											32.0

EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 7.0 m		COMPLETE 78/07/16	
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DEMSPETER HIGHWAY CORRIDOR		SOURCE: km 63.9, 300 m Right of Highway		BOREHOLE No. 0639B124	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 7 N7149300.00 E633625.00		Project No: 0201-4989	
DIAND		ORIGINAL BOREHOLE NUMBER 78-124		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB ☒ NO RECOVERY ☒ STANDARD PEN. ☒ 75 mm SPOON ☐ 75 mm CRREL ☐ 100 mm CRREL					

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID 20 40 60 80	PERCENT FINES ▲			PERCENT SAND ●			PERCENT GRAVEL ■			DEPTH (ft)
						20	40	60	80	20	40	60	80	20	
0.0		1	NF at 0.0 to 0.3 m PEAT (PT) - amorphous granular, brown											0.0	
		2	Nbe at 0.3 to 0.5 m											2.0	
-1.0		3	SILT(ML) AND GRAVEL-some sand to sandy, grey, ice lenses 3 - 5 mm at 10 - 30 mm											4.0	
			Vs,Vr at 0.5 - 1.5 m												
-2.0			GRAVEL (GM/GP) - coarse to fine, coarser drilling below 1.5 m											6.0	
			Nbn at 1.5 - 5.0 m											8.0	
-3.0														10.0	
-4.0			- cobbles											12.0	
-5.0			END OF BOREHOLE AT 5.0 m											16.0	
-6.0														18.0	
-7.0														20.0	
-8.0														22.0	
-9.0														24.0	
-10.0														26.0	
														28.0	
														30.0	
														32.0	

EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 5.0 m		COMPLETE 78/07/17	
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DEMPSTER HIGHWAY CORRIDOR		SOURCE: km 67.4, 75 m Right of Highway		BOREHOLE No. 0674B027		
GRANULAR RESOURCE INVENTORY		UTM ZONE: 7 N7152540.00 E635000.00		Project No: 0201-4989		
DIAND		ORIGINAL BOREHOLE NUMBER 78-27		ELEVATION 0.00 (m)		
SAMPLE TYPE ☒ GRAB ☒ NO RECOVERY ☒ STANDARD PEN. ☒ 75 mm SPOON ☐ 75 mm CRREL ☐ 100 mm CRREL						
DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	▲ PERCENT FINES ▲ 20 40 60 80 ● PERCENT SAND ● 20 40 60 80 ■ PERCENT GRAVEL ■ 20 40 60 80 PLASTIC M.C. LIQUID 20 40 60 80	DEPTH (ft)
0.0		1	Vs, Nbe at 0.0 to 0.8 m			0.0
		2	ORGANIC COVER ORGANIC SILT AND PEAT (OL/PT) - trace of fine sand, dark brown			2.0
-1.0		3	GRAVEL (GM) - silty, sandy, fine to coarse, some organics, trace cobbles and boulders, brown Nbe at 0.8 to 2.8 m - trace siltstone			4.0
-2.0		4	- boulders			6.0
-3.0			END OF BOREHOLE AT 2.8 m			8.0
-4.0						10.0
-5.0						12.0
-6.0						14.0
-7.0						16.0
-8.0						18.0
-9.0						20.0
-10.0						22.0
						24.0
						26.0
						28.0
						30.0
						32.0
EBA Engineering Consultants Ltd. Whitehorse, Yukon				COMPLETION DEPTH 2.8 m		COMPLETE 78/07/17
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DEMPSTER HIGHWAY CORRIDOR		SOURCE: km 71.8, 75 m Right of Highway		BOREHOLE No. 0718B028	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 7 N7154750.00 E634050.00		Project No: 0201-4989	
DIAND		ORIGINAL BOREHOLE NUMBER 78-28		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB ☐ NO RECOVERY ☒ STANDARD PEN. ☐ 75 mm SPOON ☐ 75 mm CREEL ☐ 100 mm CREEL					

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID			PERCENT FINES			DEPTH (ft)	
					20	40	60	80	PERCENT SAND	PERCENT GRAVEL		20
0.0		1	PEAT NF at 0.0 to 10.5 m									0.0
-1.0		2	SILT AND CLAY (ML/CL) - some sand, fine to coarse, trace gravel, slight to low plasticity, sand lenses, organic lenses, dark brown									-2.0
-2.0		3										-4.0
-3.0		4	SAND AND GRAVEL (GM/GW) - trace silt, trace cobbles and boulders, medium dense, dark brown									-6.0
-4.0		5	- trace of siltstone at 2.2 m									-8.0
-5.0		6	- some silt	GM/GW								-10.0
-6.0		7										-12.0
-7.0		8	SAND AND GRAVEL (GM) - some silt to silty, trace cobbles and boulders, trace of clay, rusty orange specks, brown silt lens, medium dense to dense, dark grey	GM								-14.0
-8.0		9		GM								-16.0
-9.0		10		GM								-18.0
-10.0												-20.0
												-22.0
												-24.0
												-26.0
												-28.0
												-30.0
												-32.0

EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 10.5 m	COMPLETE 78/07/17
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DEMPSTER HIGHWAY CORRIDOR		SOURCE: km 71.8, 75 m Right of Highway		BOREHOLE No. 0718B028		
GRANULAR RESOURCE INVENTORY		UTM ZONE: 7 N7154750.00 E634050.00		Project No: 0201-4989		
DIAND		ORIGINAL BOREHOLE NUMBER 78-28		ELEVATION 0.00 (m)		
SAMPLE TYPE ☒ GRAB ☒ NO RECOVERY ☒ STANDARD PEN. ☒ 75 mm SPOON ☐ 75 mm CRREL ☐ 100 mm CRREL						
DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID 20 40 60 80 ▲ PERCENT FINES ▲ 20 40 60 80 ● PERCENT SAND ● 20 40 60 80 ■ PERCENT GRAVEL ■ 20 40 60 80	DEPTH (ft)
10.0	X	11	END OF BOREHOLE AT 10.5 m	GM	● ▲ ■ ●	34.0
11.0						36.0
12.0						38.0
13.0						40.0
14.0						42.0
15.0						44.0
16.0						46.0
17.0						48.0
18.0						50.0
19.0						52.0
20.0						54.0
					56.0	
					58.0	
					60.0	
					62.0	
					64.0	

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Whitehorse, Yukon

COMPLETION DEPTH 10.5 m
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DEMSPETER HIGHWAY CORRIDOR		SOURCE: km 78.2, 610 m Right of Highway		BOREHOLE No. 0782B029	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 7 N7162170.00 E632730.00		Project No: 0201-4989	
DIAND		ORIGINAL BOREHOLE NUMBER 78-29		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB ☒ NO RECOVERY ☒ STANDARD PEN. ☐ 75 mm SPOON ☐ 75 mm CRREL ☐ 100 mm CRREL					

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID 20 40 60 80	▲ PERCENT FINES ▲ ● PERCENT SAND ● ■ PERCENT GRAVEL ■ 20 40 60 80	DEPTH (ft)
0.0		1	ORGANIC SILT NF at 0.0 to 9.0 m				0.0
-1.0		2	SILT (ML) - some sand, fine to coarse, trace of gravel, root fibres, slight plasticity, massive structure, organic pockets, brown	ML/CL			2.0
-2.0		3	SILT AND CLAY (ML/CL) - sandy, trace of gravel, cobbles, low plasticity, brown				4.0
-3.0		4	- some coarse sand				6.0
-4.0		5	SAND (SM) - gravelly, silty, trace clay, cobbles, organic pockets, rusty specks, very dense, brown	SM			8.0
-5.0		6					10.0
-6.0		7					12.0
-7.0		8	- boulder				14.0
-8.0		9	- gravel layer between 8.0 - 8.3 m				16.0
-9.0			- boulder END OF BOREHOLE AT 9.0 m				18.0
-10.0							20.0
							22.0
							24.0
							26.0
							28.0
							30.0
							32.0

EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 9.0 m	COMPLETE 78/07/18
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DEMSPTER HIGHWAY CORRIDOR		SOURCE: km 84.3, 340 m Left of Highway		BOREHOLE No. 0843B032	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 7 N7166845.00 E627860.00		Project No: 0201-4989	
DIAND		ORIGINAL BOREHOLE NUMBER 78-32		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB		☐ NO RECOVERY		☒ STANDARD PEN.	
		☐ 75 mm SPOON		☐ 75 mm CRREL	
				☐ 100 mm CRREL	

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID 20 40 60 80	▲ PERCENT FINES ▲ 20 40 60 80 ● PERCENT SAND ● 20 40 60 80 ■ PERCENT GRAVEL ■ 20 40 60 80	DEPTH (ft)
0.0			ORGANIC COVER Nbe,Vr,Vx at 0.0 to 2.0 m				0.0
		1	ORGANIC SILT (OL) – sandy, fine to coarse, roots, slight plasticity, dark brown				2.0
-1.0		2					4.0
		3					6.0
		4					8.0
-2.0		5	SILT (ML) – sandy, trace of gravel, organic inclusions, sand lenses, grey				10.0
		6	Vr,Vs,Nbe at 2.0 to 4.5 m				12.0
-3.0		7		ML			14.0
		8	– sand and silt laminations				16.0
-4.0		9					18.0
		10	SILT AND CLAY (ML) – some fine to coarse sand, low plasticity, grey Nbe at 4.5 to 5.5 m				20.0
-5.0							22.0
		11	GRAVEL OR BOULDERS (GP) – hard drilling Nbn at 5.5 to 8.1 m				24.0
-6.0							26.0
							28.0
-7.0							30.0
							32.0
-8.0			END OF BOREHOLE AT 8.1 m				
-9.0							
-10.0							

EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 8.1 m		COMPLETE 78/07/19	
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DEMSPTER HIGHWAY CORRIDOR		SOURCE: km 84.6, 100 m Left of Highway		BOREHOLE No. 0846B031	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 7 N7165750.00 E629250.00		Project No: 0201-4989	
DIAND		ORIGINAL BOREHOLE NUMBER 78-31		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB		☒ NO RECOVERY		☒ STANDARD PEN.	
		☐ 75 mm SPOON		☐ 75 mm CRREL	
				☐ 100 mm CRREL	

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID			PERCENT FINES			DEPTH (ft)
					20	40	60	80	20	40	
0.0		1	ORGANIC COVER Nbe, ICE+ at 0.0 to 1.0 m								0.0
1.0		2	ORGANIC SILT (OL) - some gravel, trace fine sand, grey								2.0
2.0		3	SILT AND CLAY (ML/CL) - and sand, trace gravel, fine, slight to low plasticity, organic inclusions, grey	ML/CL							4.0
3.0		4	ICE+, Vr, Vx, Nbe at 1.0 to 3.0 m								6.0
4.0		5									8.0
5.0		6	GRAVEL (GM) - sandy, fine to coarse, trace to some silt Nbn at 3.0 to 8.5 m								10.0
6.0		7									12.0
7.0		8									14.0
8.0			- hard drilling below 5.0 m - trace of cobbles, brownish grey								16.0
9.0											18.0
10.0			END OF BOREHOLE AT 8.5 m								20.0

EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 8.5 m		COMPLETE 78/07/18	
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DEMSPTER HIGHWAY CORRIDOR		SOURCE: km 86.2, 425 m Left of Highway		BOREHOLE No. 0862B033	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 7 N7166850.00 E626775.00		Project No: 0201-4989	
DIAND		ORIGINAL BOREHOLE NUMBER 78-33		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB		☒ NO RECOVERY		☒ STANDARD PEN.	
		☒ 75 mm SPOON		☐ 75 mm CRREL	
				☐ 100 mm CRREL	

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID			PERCENT FINES SAND GRAVEL			DEPTH (ft)
0.0			ORGANIC COVER								0.0
			NF at 0.0 to 1.0 m								
		1	SILT AND CLAY (ML) - some fine to coarse sand, some gravel, fine to medium, low plasticity, massive structure, rusty specks, brown								2.0
-1.0											
		2	GRAVEL(GM) AND SAND-fine to coarse, some silt and clay, organic pockets, brown								4.0
-2.0			Nbn at 1.0 to 3.5 m								6.0
		3									8.0
-3.0		4									10.0
		5	SAND (SP) - gravelly, some silt, orange brown								12.0
-4.0			Nbe at 3.5 to 4.0 m								14.0
		6	GRAVEL AND SAND(GW/GM)-brown								16.0
-5.0		7	NF at 4.0 to 6.5 m								18.0
			BEDROCK OR BOULDER - hard drilling								20.0
-6.0		8									22.0
-7.0			END OF BOREHOLE AT 6.5 m								24.0
-8.0											26.0
-9.0											28.0
-10.0											30.0
											32.0

EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 6.5 m		COMPLETE 78/07/19	
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DEMSPTER HIGHWAY CORRIDOR		SOURCE: km 92.2, 320 m Left of Highway		BOREHOLE No. 0922B125	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 7 N7171300.00 E624900.00		Project No: 0201-4989	
DIAND		ORIGINAL BOREHOLE NUMBER 78-125		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB		☒ NO RECOVERY		☒ STANDARD PEN.	
		☐ 75 mm SPOON		☐ 75 mm CRREL	
				☐ 100 mm CRREL	

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID 20 40 60 80	▲ PERCENT FINES ▲ 20 40 60 80 ● PERCENT SAND ● 20 40 60 80 ■ PERCENT GRAVEL ■ 20 40 60 80	DEPTH (ft)
0.0			PEAT (PT) - amorphous and granular, organic silt lenses, dark brown, ice lenses 1/2 - 2 mm spaced at 1 - 5 mm				0.0
1.0		1	NF at 0.0 to 0.3 m				2.0
		2	Vr,Vs,Nbe at 0.3 - 1.5 m				4.0
		3	- ice lenses 17 mm spaced at 30 mm at 1.5 m				6.0
		4					8.0
2.0		5	ORGANIC SILT (OL) - trace of fine sand, trace of clay, non to slight plasticity, peat layers, grey, ice lenses 1 - 15 mm spaced at 1 - 15 mm	OL			10.0
		6	ICE+ at 1.5 to 1.9 m				12.0
		7	Vr,Vs at 1.9 to 3.7 m				14.0
		8	- ice lenses 5 - 15 mm at 10 - 40 mm				16.0
		9	- some sand and gravel at 3.5 m				18.0
3.0		10					20.0
		11					22.0
		12	GRAVEL AND SAND (GM) - and silt, trace of clay, grey	GM			24.0
4.0		13	Vr,ICE+ at 3.8 to 4.2 m				26.0
		14	Vr,Vs,Nbn at 4.2 to 10.0 m				28.0
		15	- coarser drilling below 4.5 m				30.0
			- ice lenses 2 - 15 mm spaced at 2 - 12 mm				32.0
5.0							
6.0		16					
7.0							
8.0							
9.0							
10.0							

EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 10.0 m		COMPLETE 78/07/18	
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DEMSPTER HIGHWAY CORRIDOR		SOURCE: km 99.3, 200 m Left of Highway		BOREHOLE No. 0993B034	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 7 N7179760.00 E624650.00		Project No: 0201-4989	
DIAND		ORIGINAL BOREHOLE NUMBER 78-34		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB		☒ NO RECOVERY		☒ STANDARD PEN.	
		☐ 75 mm SPOON		☐ 75 mm CRREL	
				☐ 100 mm CRREL	

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID			PERCENT FINES SAND GRAVEL				DEPTH (ft)
					20	40	60	80	20	40	60	
0.0			ORGANIC COVER Vx,Vr,ICE+ at 0.0 to 1.6 m									0.0
		1	PEAT AND ORGANIC SILT (PT/OL) - trace									2.0
		2	fine sand, trace of fine gravel,									
		3	pockets of organic silt, dark brown									4.0
-1.0			- ice lenses 15 - 20 mm at 20 - 50 mm									
		4	GRAVEL (GM) - sandy, fine to coarse, trace to some silt									6.0
-2.0			Nbe,Nbn at 1.6 - 7.5 m									8.0
		5	- silty	GM								10.0
-3.0												12.0
			- boulder									14.0
-4.0												16.0
		6										18.0
-5.0												20.0
			- boulder									22.0
-6.0												24.0
			- boulder									26.0
-7.0												28.0
			END OF BOREHOLE AT 7.5 m									30.0
-8.0												32.0
-9.0												
-10.0												

EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 7.5 m		COMPLETE 78/07/20	
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DEMSPTER HIGHWAY CORRIDOR		SOURCE: km 106.7, 250 m Right of Highway		BOREHOLE No. 1067B126	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 7 N7185250.00 E625800.00		Project No: 0201-4989	
DIAND		ORIGINAL BOREHOLE NUMBER 78-126		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB		☒ NO RECOVERY		☒ STANDARD PEN.	
		☐ 75 mm SPOON		☐ 75 mm CRREL	
				☐ 100 mm CRREL	

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID			PERCENT FINES			DEPTH (ft)
					20	40	60	80	20	40	
0.0			ORGANIC COVER - moss								0.0
		1	NF at 0.0 to 0.3 m								
			ORGANIC SILT (OL) - trace of fine sand, peat inclusions,								
		2	Nbe at 0.3 to 0.4 m								
-1.0			ICE at 0.4 to 0.5 m								
		3	Vr,Vs at 0.5 to 1.9 m								
		4	- cobble at 0.6 m, grey								
		5	- ice lenses 1/4 - 1 mm spaced at 1/2 - 2 mm								
-2.0		6	SILT AND SAND (ML) - fine, some gravel, stratified, grey								
		7	GRAVEL AND SAND (GM) - silty, fine to coarse, carbon specks, grey	GM							
			Vr,Nbe,Nbn at 0.9 to 4.5 m								
-3.0		8									
-4.0											
-5.0			SAND (SM) - fine to medium, some silt, trace fine gravel, organic odor, sand and silt lenses, dark grey								
			Nbe at 4.5 - 6.0 m								
-6.0		9									
			Vs,Nbe at 6.0 to 9.6 m								
-7.0		10									
			SILT AND CLAY (ML) - trace of sand, coarse to fine, trace of gravel, fine, slight to low plasticity, organic odor, dark grey								
-8.0											
-9.0											
-10.0			- bedrock or boulder								
			END OF BOREHOLE AT 9.6 m								

EBA Engineering Consultants Ltd.		COMPLETION DEPTH 9.6 m		COMPLETE 78/07/18	
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DEMSPTER HIGHWAY CORRIDOR		SOURCE: km 114.7, 150 m Left of Highway		BOREHOLE No. 1147B129	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 7 N7192500.00 E625000.00		Project No: 0201-4989	
DIAND		ORIGINAL BOREHOLE NUMBER 78-129		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB ☐ NO RECOVERY ☒ STANDARD PEN. ☐ 75 mm SPOON ☐ 75 mm CRREL ☐ 100 mm CRREL					

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID	▲ PERCENT FINES ▲ 20406080 ● PERCENT SAND ● 20406080 ■ PERCENT GRAVEL ■ 20406080	DEPTH (ft)
0.0		1	PEAT (PT) - amorphous and granular, some gravel, dark brown NF at 0.0 to 0.3 m Nbe,Vr at 0.3 to 0.5 m			0.0	
1.0		2	ORGANIC SILT (OL) - trace fine to coarse sand, trace of gravel, fine, grey, ice lenses 1/4 - 5 mm spaced at 1 - 10 mm ICE+ at 0.5 to 0.7 m Nbe,Vr at 0.7 to 1.2 m			2.0	
2.0			ICE ICE at 1.2 to 4.0 m			4.0	
3.0						6.0	
4.0		3	GRAVEL AND SAND (GM) - silty, clayey, hard drilling Nbn at 4.0 to 8.8 m			8.0	
5.0						10.0	
6.0						12.0	
7.0						14.0	
8.0						16.0	
9.0						18.0	
10.0		4				20.0	
						22.0	
						24.0	
						26.0	
						28.0	
						30.0	
						32.0	
			END OF BOREHOLE AT 8.8 m				

EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 8.8 m	COMPLETE 7E/07/19
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DEMSPTER HIGHWAY CORRIDOR		SOURCE: km 121.7, 5480 M Left of Highway		BOREHOLE No. 1217B130	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 7 N7199180.00 E623650.00		Project No: 0201-4989	
DIAND		ORIGINAL BOREHOLE NUMBER 78-130		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB ☐ NO RECOVERY ☒ STANDARD PEN. ☐ 75 mm SPOON ☐ 75 mm CRREL ☐ 100 mm CRREL					

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID 20 40 60 80	▲ PERCENT FINES ▲ 20 40 60 80 ● PERCENT SAND ● 20 40 60 80 ■ PERCENT GRAVEL ■ 20 40 60 80	DEPTH (ft)
0.0		1	PEAT - amorphous and granular, non woody, fine fibrous, dark brown NF at 0.0 to 0.3 m Nbe at 0.3 to 2.1 m				0.0
1.0		2	SILT AND CLAY (ML/CL) - sandy, sand is coarse to fine, some coarse to fine gravel, low plasticity, organic odor, dark grey - cobbles present at 0.6 m				4.0
2.0		3	PEAT (PT) - amorphous and granular, woody fine fibres, dark brown, Nbe,Vr at 2.1 to 4.5 m				8.0
3.0		4					12.0
4.0		5	- ice lenses 1/2 - 2 mm spaced at 1/2 - 2 mm				16.0
5.0		6	GRAVEL (GM) - sandy, fine to coarse, some silt and clay, organic pockets, grey Vx,Vr at 4.5 to 7.0 m				20.0
6.0							24.0
7.0		7	- organic silt laminations - ice lenses 2 - 2 mm spaced at 1 - 3 mm ICE AND GRAVEL ICE+ sy 7.0 to 8.5 m				28.0
8.0							32.0
9.0		8	GRAVEL (GM) - sandy, coarse to fine, some silt and clay, grey Vr at 8.5 to 9.8 m - ice lenses 2 - 3 mm spaced at 2 - 5 mm				
10.0			END OF BOREHOLE AT 9.8 m				

EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 9.8 m		COMPLETE 78/07/20	
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DEMSPETER HIGHWAY CORRIDOR		SOURCE: km 129.0, 8800 m Left of Highway		BOREHOLE No. 1290B131	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 7 N7206365.00 E621250.00		Project No: 0201-4989	
DIAND		ORIGINAL BOREHOLE NUMBER 78-130		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB		☒ NO RECOVERY		☒ STANDARD PEN.	
		☐ 75 mm SPOON		☐ 75 mm CRREL	
				☐ 100 mm CRREL	

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC 20 40 60 80 M.C. 20 40 60 80 LIQUID 20 40 60 80	DEPTH (ft)
0.0		1	PEAT (PT) - amorphous and granular, non woody, fine fibrous, brown, ice lenses 1/4 - 1/2 mm spaced at 1/2 - 1 mm			0.0
		2	NF at 0.0 to 0.5 m			2.0
		3	Vr,Nbe,Vs at 0.5 to 1.4 m			4.0
		4				6.0
		5	GRAVEL AND ORGANIC SILT (GM) - some sand, trace of clay, slight plasticity, peat inclusions, dark brown, - gravel pocket at 1.7 m	GM		8.0
		6	Vs,Vx at 1.4 to 2.3 m			10.0
		7	ICE+ at 2.3 to 2.4 m			12.0
		8	Vs,Vx at 2.4 to 3.1 m			14.0
		9				16.0
		10				18.0
		11	PEAT (PT) - wood pieces, trace of organic silt, trace of fine sand, brown			20.0
		12	Vs,Vr,Nbe at 3.1 to 4.9 m			22.0
		13				24.0
		14				26.0
		15				28.0
		16				30.0
		17	GRAVEL (GP) - trace to some sand, trace of silt, trace of cobbles below 5.0 m, dark brown			32.0
			Nbn at 4.9 to 6.2 m			
			END OF BOREHOLE AT 6.2 m			

EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 6.2 m		COMPLETE 78/07/20	
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DEMSPTER HIGHWAY CORRIDOR		SOURCE: km 159.8, 100 m Right of Highway		BOREHOLE No. 1598B132	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 7 N7221375.00 E624000.00		Project No: 0201-4989	
DIAND		ORIGINAL BOREHOLE NUMBER 78-132		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB		☐ NO RECOVERY		☒ STANDARD PEN.	
		☐ 75 mm SPOON		☐ 75 mm CRREL	
				☐ 100 mm CRREL	

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID 20 40 60 80	▲ PERCENT FINES ▲ 20 40 60 80 ● PERCENT SAND ● 20 40 60 80 ■ PERCENT GRAVEL ■ 20 40 60 80	DEPTH (ft)
0.0		1	PEAT (PT) - non woody, fine fibrous, amorphous granular, dark brown, NF at 0.0 to 0.3 m				0.0
		2	Nbe,Vx at 0.3 to 1.3 m - gravel inclusions				2.0
1.0		3					4.0
		4	ORGANIC SILT AND PEAT (OL) - trace of fine sand, silt and peat laminations and layers, dark brown				6.0
2.0		5	ICE+ at 1.3 to 1.7 m				8.0
		6	Nbe,Vx at 1.7 to 2.3 m - ice lenses 3 - 5 mm spaced at 3 - 30 mm	OL			10.0
3.0		7	Nbe at 2.3 to 2.9 m				12.0
		8	GRAVEL (GM) - coarse to fine, some sand to sandy, some silt and clay, brown				14.0
4.0		9	Nbn at 2.9 to 5.6 m				16.0
5.0							18.0
6.0			END OF BOREHOLE AT 5.6 m				20.0
7.0							22.0
8.0							24.0
9.0							26.0
10.0							28.0

EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 5.6 m		COMPLETE 78/07/20	
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DEMSPETER HIGHWAY CORRIDOR		SOURCE: km 179.6, 700 m Right of Highway		BOREHOLE No. 1796B133	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 7 N7239300.00 E627675.00		Project No: 0201-4989	
DIAND		ORIGINAL BOREHOLE NUMBER 78-133		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB		☒ NO RECOVERY		☒ STANDARD PEN.	
		☐ 75 mm SPOON		☐ 75 mm CRREL	
				☐ 100 mm CRREL	

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID			PERCENT FINES			DEPTH (ft)
					20	40	60	80	20	40	
0.0		1	PEAT (PT) - seams of organics silt, brown NF at 0.0 to 0.3 m Vr at 0.3 to 0.6 m								0.0
1.0		2	ORGANIC SILT AND CLAY (OL) - trace of fine sand, peat inclusions, slight plasticity, nuggety structure, dark brown								2.0
2.0		3	ICE+ at 0.6 to 0.8 m Vs,Vx at 0.8 to 1.3 m ICE+ at 1.3 to 1.9 m Vs,Vx at 1.9 to 3.0 m								4.0
3.0		4									6.0
4.0		5	- ice lenses 1 - 5 mm spaced at 1 - 10 mm - ice lenses 10 - 17 mm spaced at 2 - 5 mm								8.0
5.0		6	ICE AND ORGANIC SILT ICE+ at 3.0 to 5.1 m	OL							10.0
6.0											12.0
7.0		7	GRAVEL (GM) - pieces of shaly siltstone, black Vx,Vr at 5.1 to 8.0 m								14.0
8.0		8	- harder drilling at 8.0 m END OF BOREHOLE AT 8.0 m								16.0
9.0											18.0
10.0											20.0

EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 8.0 m	COMPLETE 78/07/21
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DEMSPTER HIGHWAY CORRIDOR		SOURCE: km 187.1, 200 m Left of Highway		BOREHOLE No. 1871B134	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 7 N7245625.00 E629580.00		Project No: 0201-4989	
DIAND		ORIGINAL BOREHOLE NUMBER 78-134		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB		☒ NO RECOVERY		☒ STANDARD PEN.	
		☐ 75 mm SPOON		☐ 75 mm CRREL	
				☐ 100 mm CRREL	

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID 	<table border="1" style="width:100%; border-collapse: collapse; font-size: x-small;"> <tr> <td colspan="4">▲ PERCENT FINES ▲</td> </tr> <tr> <td>20</td> <td>40</td> <td>60</td> <td>80</td> </tr> <tr> <td colspan="4">● PERCENT SAND ●</td> </tr> <tr> <td>20</td> <td>40</td> <td>60</td> <td>80</td> </tr> <tr> <td colspan="4">■ PERCENT GRAVEL ■</td> </tr> <tr> <td>20</td> <td>40</td> <td>60</td> <td>80</td> </tr> </table>	▲ PERCENT FINES ▲				20	40	60	80	● PERCENT SAND ●				20	40	60	80	■ PERCENT GRAVEL ■				20	40	60	80	DEPTH (ft)
▲ PERCENT FINES ▲																															
20	40	60	80																												
● PERCENT SAND ●																															
20	40	60	80																												
■ PERCENT GRAVEL ■																															
20	40	60	80																												
0.0			NF at 0.0 to 0.3 m			0.0																									
1.0		1	PEAT (PT) - amorphous and granular, containing non woody fine fibres, brown, ice lenses 1/4 - 2 mm spaced at 1/4 - 1 mm			2.0																									
		2																													
		3	Nbe,Vx at 0.3 to 3.6 m			4.0																									
2.0		4				6.0																									
		5				8.0																									
3.0		6				10.0																									
		7	- ICE+ (30 mm layer)			12.0																									
		8				14.0																									
4.0		9	ORGANIC SILT (OL) - trace of fine sand, slight plasticity, brownish grey,			16.0																									
		10	Nbe,Vr at 3.6 to 4.9 m	OL		18.0																									
		11	- ice lenses 10 - 20 mm spaced at 20 - 30 mm			20.0																									
		12	Vx,Vr at 3.9 to 13.0 m			22.0																									
5.0		13	GRAVEL (GM/GW) - coarse to fine, pieces of fractured shale and gravel, some sand, trace to some silt, black			24.0																									
6.0						26.0																									
7.0						28.0																									
		14				30.0																									
8.0						32.0																									
9.0																															
10.0																															

EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 13.0 m	COMPLETE 78/07/21
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DEMSPTER HIGHWAY CORRIDOR	SOURCE: km 187.1, 200 m Left of Highway	BOREHOLE No. 1871B134
GRANULAR RESOURCE INVENTORY	UTM ZONE: 7 N7245625.00 E629580.00	Project No: 0201-4989
DIAND	ORIGINAL BOREHOLE NUMBER 78-134	ELEVATION 0.00 (m)
SAMPLE TYPE ☒ GRAB ☐ NO RECOVERY ☒ STANDARD PEN. ☐ 75 mm SPOON ☐ 75 mm CRREL ☐ 100 mm CRREL		

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC	M.C.	LIQUID	▲ PERCENT FINES ▲ 20 40 60 80 ● PERCENT SAND ● 20 40 60 80 ■ PERCENT GRAVEL ■ 20 40 60 80	DEPTH (ft)
10.0									34.0
11.0									36.0
12.0									38.0
13.0		15	END OF BOREHOLE AT 13.0 m						42.0
14.0									46.0
15.0									50.0
16.0									52.0
17.0									56.0
18.0									60.0
19.0									62.0
20.0									64.0

EBA Engineering Consultants Ltd.
Whitehorse, Yukon

COMPLETION DEPTH 13.0 m

COMPLETE 78/07/21

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DEMSPTER HIGHWAY CORRIDOR		SOURCE: km 197.7, 3250 m Right of Hwy		BOREHOLE No. 1977B135	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 7 N7251800.00 E628650.00		Project No: 0201-4989	
DIAND		ORIGINAL BOREHOLE NUMBER 78-135		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB		☒ NO RECOVERY		☒ STANDARD PEN.	
		☐ 75 mm SPOON		☐ 75 mm CKREL	
				☐ 100 mm CKREL	

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTICITY			PERCENT FINES			DEPTH (ft)		
					PLASTIC	M.C.	LIQUID	PERCENT FINES					
								PERCENT SAND					
								PERCENT GRAVEL					
20	40	60	80	20	40	60	80	20	40	60	80		
0.0		1	PEAT (PT) - fibrous, brown NF at 0.0 to 0.2 m Vr, Vx, Vx at 0.2 to 4.6 m										0.0
1.0		2	ORGANIC SILT (OL) - trace to some sand, fine to medium, non to slight plasticity, root fibres, sand and silt pockets, brown, ice lenses 1/2 - 3 mm spaced at 1 - 15 mm										2.0
2.0		3	ICE+ (28 mm layer) - little to some gravel below 1.6 m	OL									4.0
3.0		4											6.0
4.0		5											8.0
5.0		6											10.0
6.0		7											12.0
7.0		8											14.0
8.0		9	ICE ICE at 4.6 to 4.8 m ORGANIC SILT (OL) - some sand, trace of of gravel, sand, silt and organic pockets, organic odor, dark brown Vr at 4.8 to 7.4 m										16.0
9.0		10	- ice lenses 1/4 - 1/2 mm spaced at 1/2 - 2 mm	OL									18.0
10.0		11	GRAVEL (GM) - coarse to fine, sandy, coarse to fine sand, some silt and clay becoming siltier, dark grey brown										20.0
		12	Vx, Vr at 7.4 to 9.8 m										22.0
		13	END OF BOREHOLE AT 9.8 m										24.0
													26.0
													28.0
													30.0
													32.0

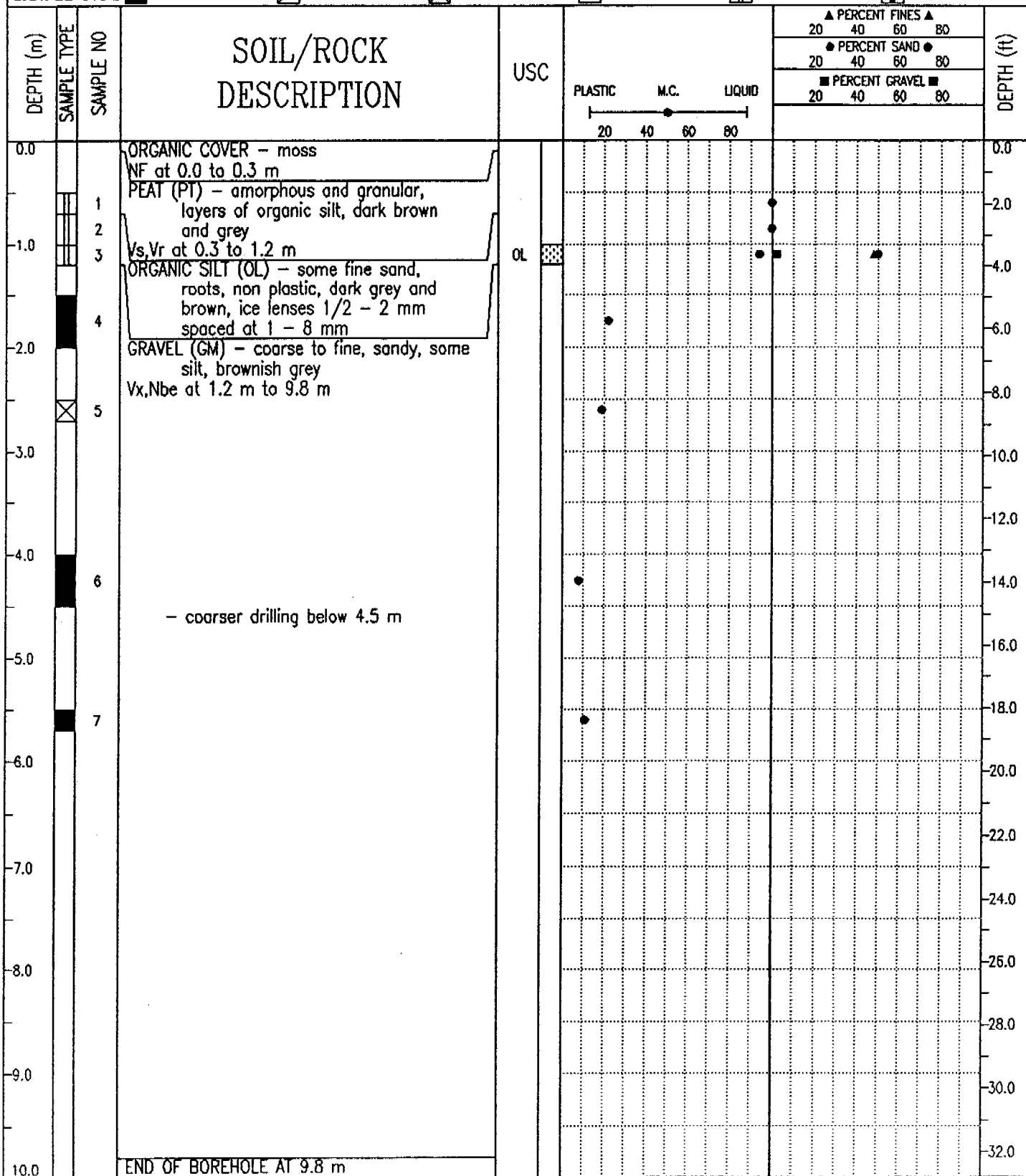
EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 9.8 m		COMPLETE 78/07/21	
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DEMSPTER HIGHWAY CORRIDOR		SOURCE: km 199.1, 100 m Right of Highway		BOREHOLE No. 1991B137	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 7 N7254450.00 E627150.00		Project No: 0201-4989	
DIAND		ORIGINAL BOREHOLE NUMBER 78-137		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB		☒ NO RECOVERY		☒ STANDARD PEN.	
		☐ 75 mm SPOON		☐ 75 mm CRREL	
				☐ 100 mm CRREL	

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID 20 40 60 80	▲ PERCENT FINES ▲ 20 40 60 80 ● PERCENT SAND ● 20 40 60 80 ■ PERCENT GRAVEL ■ 20 40 60 80	DEPTH (ft)
0.0		1	ORGANIC COVER - moss NF at 0.0 to 0.4 m		●		0.0
1.0		2	ORGANIC SILT (OL) - some gravel, fine to medium, trace of fine sand, non to slight plasticity, brown - some coarse gravel at 0.3 m Vx,Vr,Vs at 0.4 to 1.9 m			●	2.0
2.0		3	GRAVEL (GM) - sandy, fine to coarse, some silt, grey brown Vx at 1.9 to 3.9 m		●		4.0
3.0		4			●		6.0
4.0			BEDROCK - very hard drilling Nbn at 3.9 to 4.5 m				8.0
5.0			END OF BOREHOLE AT 4.5 m				10.0
6.0							12.0
7.0							14.0
8.0							16.0
9.0							18.0
10.0							20.0
							22.0
							24.0
							26.0
							28.0
							30.0
							32.0

EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 4.5 m	COMPLETE 78/07/22
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DEMSPETER HIGHWAY CORRIDOR	SOURCE: km 200.7, 400 m Right of Highway	BOREHOLE No. 2007B138
GRANULAR RESOURCE INVENTORY	UTM ZONE: 7 N7256200.00 E627500.00	Project No: 0201-4989
DIAND	ORIGINAL BOREHOLE NUMBER 78-138	ELEVATION 0.00 (m)
SAMPLE TYPE ☒ GRAB ☒ NO RECOVERY ☒ STANDARD PEN. ☒ 75 mm SPOON ☒ 75 mm CRREL ☒ 100 mm CRREL		



EBA Engineering Consultants Ltd.
Whitehorse, Yukon

COMPLETION DEPTH 9.8 m

COMPLETE 78/07/22

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DEMSPETER HIGHWAY CORRIDOR		SOURCE: km 203.8, 100 m Left of Highway		BOREHOLE No. 2038B139	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 7 N7257025.00 E629520.00		Project No: 0201-4989	
DIAND		ORIGINAL BOREHOLE NUMBER 78-139		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB		☒ NO RECOVERY		☒ STANDARD PEN.	
		☐ 75 mm SPOON		☐ 75 mm CRREL	
				☐ 100 mm CRREL	

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID			PERCENT FINES				DEPTH (ft)
					20	40	60	80	PERCENT SAND	PERCENT GRAVEL		
0.0			PEAT (PT) - amorphous and granular, dark brown NF at 0.0 to 0.4 m Nbe at 0.4 to 1.0 m									0.0
1.0		3	ORGANIC SILT (OL) - trace fine sand, peat inclusions, grey, ice lenses 1/2 - 3mm spaced at 2 - 12 mm Vs at 1.0 to 1.3 m									1.0
2.0		4	SAND AND SILT (SM) - trace gravel, stratified, brownish grey Nbe at 1.3 to 1.6 m									2.0
3.0		5	GRAVEL (GM) - fine to medium, sandy, some silt NF at 1.6 to 8.7 m - very dense below 3.0 m									3.0
4.0												4.0
5.0			- trace yellow clay									5.0
6.0		6	GRAVEL (GM) - fine to medium, sandy, some silt and clay, brownish grey									6.0
7.0		7										7.0
8.0			BEDROCK - hard smooth drilling END OF BOREHOLE AT 8.7 m									8.0
9.0												9.0
10.0												10.0

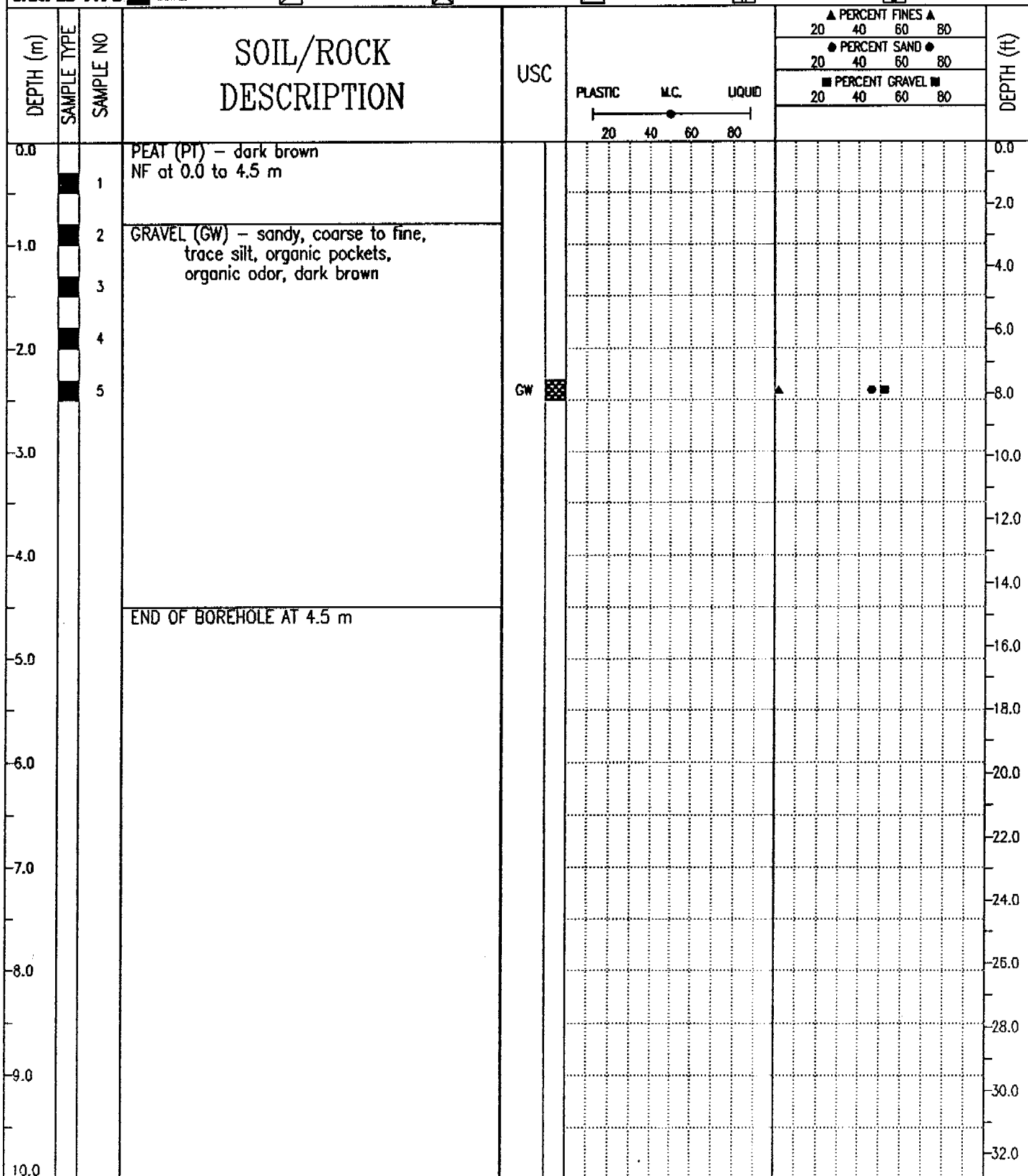
EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 8.7 m		COMPLETE 78/07/23	
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DEMSPETER HIGHWAY CORRIDOR		SOURCE: km 206.0, 1350 m Right of Hwy		BOREHOLE No. 2060B140	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 7 N7258500.00 E630340.00		Project No: 0201-4989	
DIAND		ORIGINAL BOREHOLE NUMBER 78-140		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB		☐ NO RECOVERY		☒ STANDARD PEN.	
		☐ 75 mm SPOON		☐ 75 mm CRREL	
				☐ 100 mm CRREL	

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID 20 40 60 80	▲ PERCENT FINES ▲ 20 40 60 80 ● PERCENT SAND ● 20 40 60 80 ■ PERCENT GRAVEL ■ 20 40 60 80	DEPTH (ft)
0.0			ORGANIC COVER - moss NF at 0.0 to 0.3 m				0.0
		1	ORGANIC SILT AND PEAT (PT) - dark brown				2.0
		2	SAND AND SILT (SM) - fine to medium, stratified, organic pockets, brown				
-1.0		3	Vs, Nbe at 0.3 to 1.4 m	SM			-4.0
		4	GRAVEL AND SAND (GM/GW) - fine to coarse, trace of silt, organic odour, dark grey Vx, Vr at 1.4 to 3.5 m				-6.0
-2.0							-8.0
-3.0							-10.0
		5	SILT (ML) - some fine sand, trace of fine gravel, slight plasticity, organic inclusions, dark brown Nbe at 3.5 to 3.9 m				-12.0
-4.0			GRAVEL (GM/GW) - fine to medium, sandy, some silt Vx, Vr at 3.9 to 6.0 m				-14.0
-5.0							-16.0
		6	- organic silt lamination				-18.0
-6.0							-20.0
		7	SILT AND CLAY (ML/CL) - trace of fine sand, low plasticity, shale like structure, organic odor, black Nbn, Nbe at 6.0 to 8.7 m				-22.0
-7.0							-24.0
-8.0							-26.0
							-28.0
-9.0			END OF BOREHOLE AT 8.7 m				-30.0
-10.0							-32.0

EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 8.7 m		COMPLETE 78/07/23	
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DEMSPETER HIGHWAY CORRIDOR	SOURCE: km 219.7, 300 m Right of Highway	BOREHOLE No. 2197B143
GRANULAR RESOURCE INVENTORY	UTM ZONE: 7 N7271900.00 E628800.00	Project No: 0201-4989
DIAND	ORIGINAL BOREHOLE NUMBER 78-143	ELEVATION 0.00 (m)
SAMPLE TYPE ☒ GRAB ☒ NO RECOVERY ☒ STANDARD PEN. ☒ 75 mm SPOON ☒ 75 mm CRREL ☒ 100 mm CRREL		



EBA Engineering Consultants Ltd. Whitehorse, Yukon	COMPLETION DEPTH 4.5 m	COMPLETE 78/07/24
	LOGGED BY	DWG NO.

DEMSPETER HIGHWAY CORRIDOR		SOURCE: km 228.8, 1250 m Right of Hwy		BOREHOLE No. 2288B144	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 7 N7277600.00 E631900.00		Project No: 0201-4989	
DIAND		ORIGINAL BOREHOLE NUMBER 78-144		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB ☒ NO RECOVERY ☒ STANDARD PEN. ☐ 75 mm SPOON ☐ 75 mm CRREL ☐ 100 mm CRREL					

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID 	▲ PERCENT FINES ▲ 20406080 ● PERCENT SAND ● 20406080 ■ PERCENT GRAVEL ■ 20406080	DEPTH (ft)
0.0			NF to 0.3 m				0.0
		1	PEAT (PT) - amorphous granular, woody fine fibres, brown				2.0
			Nbe,Vr to 0.7 m				
		2	ICE+ to 1.4 m				
-1.0		3	ICE AND PEAT AND ORGANIC SILT - woody fine fibrous peat, non plastic organic silt, brown				-4.0
		4	Vr,Vs,Vx to 2.3 m	OL			
		5	ORGANIC SILT (OL) - peat inclusions, non plasticity, brownish grey, ice lenses 1/4 - 3 mm at 1/2 - 10 mm				-6.0
-2.0		6					
		7	N to 5.9 m				-8.0
			GRAVEL (GM) - silty, and clayey, some sand white sand pockets, shale fragments dark brown				-10.0
-3.0		8					-12.0
							-14.0
-4.0							-16.0
							-18.0
-5.0							-20.0
		9	NF to 6.4 m				-22.0
-6.0		10	SHALE BEDROCK				-24.0
		11	END OF BOREHOLE AT 6.4 m				-26.0
-7.0							-28.0
							-30.0
-8.0							-32.0
-9.0							
-10.0							

EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 6.4 m	COMPLETE 78/07/24
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DEMSPETER HIGHWAY CORRIDOR		SOURCE: km 229.9, 1300 m Right of Hwy		BOREHOLE No. 2299B145	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 7 N7278350.00 E632225.00		Project No: 0201-4989	
DIAND		ORIGINAL BOREHOLE NUMBER 78-145		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB ☐ NO RECOVERY ☒ STANDARD PEN. ☐ 75 mm SPOON ☐ 75 mm CRREL ☐ 100 mm CRREL					

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID 20 40 60 80	▲ PERCENT FINES ▲ 20 40 60 80 ● PERCENT SAND ● 20 40 60 80 ■ PERCENT GRAVEL ■ 20 40 60 80	DEPTH (ft)
0.0		1	Nf to 0.3 m				0.0
		2	PEAT (PT) - amorphous granular, brown				
		3	Vs, Vx, Vr to 1.6 m				
1.0		4	ORGANIC SILT (OL) - trace of fine sand, peat inclusions and layers, brown and grey				2.0
		5	- ice lenses 5 - 20 mm at 5 - 50 mm at depth of 0.6 m				
			- ice lenses 1/2 - 5 mm at 2 - 15 mm	OL			4.0
2.0		6	Nbn, Vs to 2.3 m				6.0
			GRAVEL (GM) - coarse to fine, some sand, some silt to silty with organics, organics, roots and pieces of wood, brown				8.0
3.0		7	Nf to 8.7 m				10.0
4.0							12.0
5.0		8					14.0
6.0		9	BEDROCK - chip samples obtained in air return indicate shaly siltstone, dark brown				16.0
7.0		10					18.0
8.0		11					20.0
9.0		12	LIMESTONE				22.0
			END OF BOREHOLE AT 8.7 m				24.0
10.0							26.0
							28.0
							30.0
							32.0

EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 8.7 m	COMPLETE 78/07/25
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DEMSPETER HIGHWAY CORRIDOR		SOURCE: km 235.9, 3250 m Right of Hwy		BOREHOLE No. 2359B148	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 7 N7285325.00 E635600.00		Project No: 0201-4989	
DIAND		ORIGINAL BOREHOLE NUMBER 78-148		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB		☒ NO RECOVERY		☒ STANDARD PEN.	
		☐ 75 mm SPOON		☐ 75 mm CRREL	
				☐ 100 mm CRREL	

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID 20 40 60 80	▲ PERCENT FINES ▲ 20 40 60 80 ● PERCENT SAND ● 20 40 60 80 ■ PERCENT GRAVEL ■ 20 40 60 80	DEPTH (ft)
0.0			Nf to 0.3 m PEAT (PT) - amorphous granular Vr,Vs,Vx to 2.0 m				0.0
		1					2.0
		2	OGRAIC SILT (OL) - trace of fine sand, peat inclusions, grey and brown,				4.0
-1.0		3					6.0
		4	- ice lenses 1/4 - 5 mm spaced at 1 - 5 mm				8.0
-2.0		5					10.0
		6	Vr,Vs to 3.1 m				12.0
		7	SILT (ML) - same gravel, fine to coarse, trace of fine sand, organic inclusions, grey				14.0
		8					16.0
-3.0		9	- gravel, some sand at 2.3 m	ML			18.0
		10	- gravel layer at 2.7 m				20.0
		11	SILT (ML) - trace to some fine sand, trace of gravel, organic inclusions, brownish grey, ice lenses 1/2 - 6 mm spaced at 2 - 15 mm spaced at				22.0
-4.0		12	2 - 15 mm				24.0
		13	- organic silt between 4.4 - 5.0 m Vs,Vx,Nbe between 3.1 - 6.5 m				26.0
-5.0		14					28.0
		15					30.0
-6.0		16					32.0
		17	Nf to 9.8 m GRAVEL (GM) - coarser drilling				
-7.0							
-8.0							
-9.0							
-10.0			END OF BOREHOLE AT 9.8 m				

EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 9.8 m		COMPLETE 78/07/25	
LOGGED BY		DWG NO.		Page 1 of 1	

DEMSPTER HIGHWAY CORRIDOR		SOURCE: km 237.2, 3450 m Right of Hwy		BOREHOLE No. 2372B149	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 7 N7286610.00 E635900.00		Project No: 0201-4989	
DIAND		ORIGINAL BOREHOLE NUMBER 78-149		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB ☒ NO RECOVERY ☒ STANDARD PEN. ☒ 75 mm SPOON ☐ 75 mm CRREL ☐ 100 mm CRREL					

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID ----- 20 40 60 80	▲ PERCENT FINES ▲ ----- 20 40 60 80 ● PERCENT SAND ● ----- 20 40 60 80 ■ PERCENT GRAVEL ■ ----- 20 40 60 80	DEPTH (ft)
0.0			PEAT (PT) - amorphous granular, brown				0.0
		1	Vr between 0.4 - 0.9 m - ice lenses 1 mm thick		●		2.0
1.0		2	GRAVEL (GM) - coarser dirlling below 2.0 m - some organic silt and clay				4.0
2.0							6.0
3.0		3					10.0
4.0							12.0
5.0		4					16.0
6.0			END OF BOREHOLE AT 5.7 m				18.0
7.0							20.0
8.0							22.0
9.0							24.0
10.0							26.0
							28.0
							30.0
							32.0

EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 5.7 m		COMPLETE 78/07/25	
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DEMSPETER HIGHWAY CORRIDOR		SOURCE: km 242.8, 2200 m Right of Hwy		BOREHOLE No. 2428B150	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 8 N7288820.00 E362300.00		Project No: 0201-4989	
DIAND		ORIGINAL BOREHOLE NUMBER 78-150		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB		☒ NO RECOVERY		☒ STANDARD PEN.	
		☐ 75 mm SPOON		☐ 75 mm CRREL	
				☐ 100 mm CRREL	

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID 20 40 60 80	▲ PERCENT FINES ▲ 20 40 60 80 ● PERCENT SAND ● 20 40 60 80 ■ PERCENT GRAVEL ■ 20 40 60 80	DEPTH (ft)
0.0			NF to 0.3 m PEAT (PT) - amorphous granular, roots, brown				0.0
		1	Vr,Vs at 0.3 - 1.5 m				2.0
		2	ORGANIC SILT (ML) - some sand to sandy, fine, peat inclusions and layers, roots, non to slight plasticity,				4.0
-1.0		3	- ice lenses 1/4 - 1 mm spaced at 1/2 - 1 mm				6.0
		4	Nbe at 1.5 - 2.0 m				8.0
-2.0		5	Vr,Vs at 2.0 - 9.8 m				10.0
		6	- ice lenses 1/4 - 1 mm spaced at 1/4 - 5 mm				12.0
-3.0		7	- large wood chips pockets of sand and silt	ML			14.0
		8					16.0
-4.0		9					18.0
		10	SILT (ML) - sandy, trace of gravel, non to slight palsticity, organic pockets, shell inclusions, grey with rusty laminations				20.0
-5.0		11	- gravel layer from 4.8 to 5.0 m				22.0
		12					24.0
-6.0		13	- sand and silt pocket	ML			26.0
		14	GRAVEL (GM) - coarser drilling				28.0
-7.0		15					30.0
-8.0			- losing air below 8.3 m				32.0
-9.0							
-10.0			END OF BOREHOLE AT 9.8 m				

EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 9.8 m	COMPLETE 78/07/26
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DEMSPETER HIGHWAY CORRIDOR		SOURCE: km 250.7, 600 m Right of Highway		BOREHOLE No. 2507B152	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 8 N7294150.00 E364600.00		Project No: 0201-4989	
DIAND		ORIGINAL BOREHOLE NUMBER 78-152		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB		☐ NO RECOVERY		☒ STANDARD PEN.	
		☐ 75 mm SPOON		☐ 75 mm CRREL	
				☐ 100 mm CRREL	

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID			PERCENT FINES				DEPTH (ft)
					20	40	60	80	PERCENT SAND	PERCENT GRAVEL		
0.0			NF at 0.0 - 0.3 m ORGANIC COVER									0.0
		1	PEAT AND ORGANIC SILT (PT/OL) - pockets and lenses, brown and grey									2.0
		2	Nbe at 0.3 to 0.6 m									
-1.0		3	ICE+ at 0.6 - 0.7 ICE AND ORGANIC SILT									4.0
			Nbe,Vs,Vr at 0.7 to 4.5 m									
-2.0		4	SILT AND CLAY (ML/CL) - some sand, trace of gravel, slight to low plasticity peat inclusions, brownish grey	ML/CL								6.0
		5	- ice lenses 1 - 15 mm spaced at 3 - 20 mm									8.0
-3.0		6										10.0
-4.0		7	- gravelly	ML/CL								12.0
		8										14.0
-5.0		9	Nbe at 4.5 - 7.5 m SAND (SM) - coarse to fine, silty, trace of clay, some gravel, brown									16.0
-6.0		10		SM								18.0
-7.0												20.0
-8.0			Vx,Vr,Vs at 7.5 to 10.3 m CLAY AND SILT (ML/CL) - trace fine gravel, medium plasticity, organic pockets, brownish grey, ice lenses 1 - 2 mm spaced at 1 - 2 mm									22.0
-9.0		11										24.0
-10.0		12										26.0
												28.0
												30.0
												32.0

EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 10.3 m	COMPLETE 78/07/26
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DEMSPETER HIGHWAY CORRIDOR		SOURCE: km 250.7, 600 m Right of Highway		BOREHOLE No. 2507B152	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 8 N7294150.00 E364600.00		Project No: 0201-4989	
DIAND		ORIGINAL BOREHOLE NUMBER 78-152		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB ☐ NO RECOVERY ☒ STANDARD PEN. ☐ 75 mm SPOON ☐ 75 mm CRREL ☐ 100 mm CRREL					
DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID ▲ PERCENT FINES ▲ 20 40 60 80 ● PERCENT SAND ● 20 40 60 80 ■ PERCENT GRAVEL ■ 20 40 60 80
10.0			END OF BOREHOLE AT 10.3 m		34.0
11.0					36.0
12.0					38.0
13.0					40.0
14.0					42.0
15.0					44.0
16.0					46.0
17.0					48.0
18.0					50.0
19.0					52.0
20.0					54.0
					56.0
					58.0
					60.0
					62.0
					64.0
EBA Engineering Consultants Ltd. Whitehorse, Yukon				COMPLETION DEPTH 10.3 m	
				COMPLETE 78/07/26	
LOGGED BY				DWG NO.	Page 2 of 2

DEMSPTER HIGHWAY CORRIDOR		SOURCE: km 257.2, 3560 m Right of Hwy		BOREHOLE No. 2572B155	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 8 N7301000.00 E377340.00		Project No: 0201-4989	
DIAND		ORIGINAL BOREHOLE NUMBER 78-155		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB		☐ NO RECOVERY		☒ STANDARD PEN.	
		☐ 75 mm SPOON		☐ 75 mm CRREL	
				☐ 100 mm CRREL	

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID			PERCENT FINES			DEPTH (ft)
					20	40	60	80	20	40	
0.0			NF at 0.0 - 0.3 m								0.0
			ORGANIC COVER - moss and grass								
		1	ORGANIC SILT AND PEAT (OL) - trace of fine sand, silt and peat lenses, brownish grey, ice lenses 1/2 - 5 mm spaced at 1 - 8 mm								2.0
1.0			Vr,Vs at 0.3 - 4.2 m								4.0
		2									6.0
		3									8.0
2.0											10.0
		4									12.0
		5									14.0
3.0											16.0
		6									18.0
		7	- trace of gravel								20.0
4.0			Nbe,Nbn at 4.2 - 5.0 m								22.0
		8	GRAVEL (GM) - sandy, coarse to fine, some organic silt, brownish grey								24.0
		9									26.0
5.0			Nbn at 5.0 to 9.8 m								28.0
		10	- sample obtained in air return fragmentssiltstone and sandstone								30.0
6.0											32.0
		11	SHALE - soft and hard layers, dark brown								
7.0											
		12									
8.0											
		13									
9.0											
10.0			END OF BOREHOLE AT 9.8 m								

EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 9.8 m		COMPLETE 78/07/27	
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DEMSPETER HIGHWAY CORRIDOR		SOURCE: km 352.4, 100 m Left of Highway		BOREHOLE No. 3524B163	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 8 N7348250.00 E417200.00		Project No: 0201-4989	
DIAND		ORIGINAL BOREHOLE NUMBER 78-163		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB		☐ NO RECOVERY		☒ STANDARD PEN.	
		☐ 75 mm SPOON		☐ 75 mm CRREL	
				☐ 100 mm CRREL	

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID			PERCENT FINES				DEPTH (ft)
					20	40	60	80	20	40	60	
0.0		1	NF at 0.0 to 0.4 m ORGANIC COVER									0.0
0.4		2	ORGANIC SILT (OL) - some sand, trace of gravel, slight plasticity, grey, ice lenses 1 - 8 mm spaced at 1 - 10 mm Vr,Vs at 0.4 to 2.2 m	OL								2.0
2.2		3	ICE at 2.2 to 5.2 m ICE									6.0
5.2		4	Nbe,Vx,Vr at 5.2 to 7.0 GRAVEL (GM) - sandy, some silt and clay, brown	GM								18.0
7.0		5	Nbn,Vr SILT AND CLAY (ML/CL) - trace of fine sand, trace of gravel, low to medium plasticity, dark grey with white specks (WEATHERED SHALE)									24.0
8.0			SHALE - low plasticity									28.0
9.6		6										30.0
10.0		7	- hard below 9.6 m, thin rusty sand-stone layer at 9.6 m, greenish grey									32.0

EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 12.1 m		COMPLETE 78/07/30	
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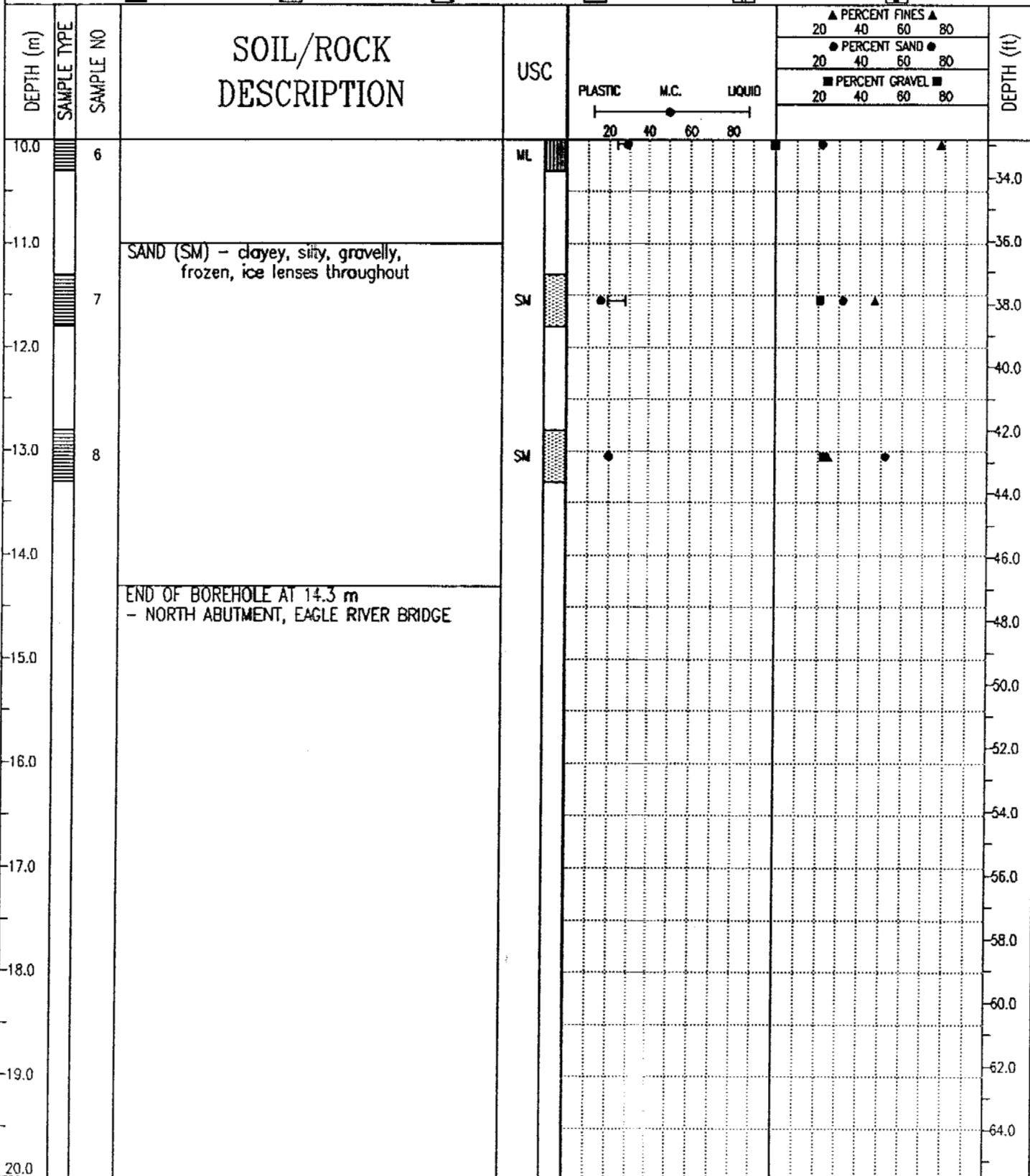
DEMSPETER HIGHWAY CORRIDOR		SOURCE: km 352.4, 100 m Left of Highway		BOREHOLE No. 3524B163	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 8 N7348250.00 E417200.00		Project No: 0201-4989	
DIAND		ORIGINAL BOREHOLE NUMBER 78-163		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB ☒ NO RECOVERY ☒ STANDARD PEN. ☒ 75 mm SPOON ☐ 75 mm CRREL ☐ 100 mm CRREL					

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID 	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td colspan="4" style="text-align: center;">▲ PERCENT FINES ▲</td> </tr> <tr> <td style="text-align: center;">20</td> <td style="text-align: center;">40</td> <td style="text-align: center;">60</td> <td style="text-align: center;">80</td> </tr> <tr> <td colspan="4" style="text-align: center;">● PERCENT SAND ●</td> </tr> <tr> <td style="text-align: center;">20</td> <td style="text-align: center;">40</td> <td style="text-align: center;">60</td> <td style="text-align: center;">80</td> </tr> <tr> <td colspan="4" style="text-align: center;">■ PERCENT GRAVEL ■</td> </tr> <tr> <td style="text-align: center;">20</td> <td style="text-align: center;">40</td> <td style="text-align: center;">60</td> <td style="text-align: center;">80</td> </tr> </table>	▲ PERCENT FINES ▲				20	40	60	80	● PERCENT SAND ●				20	40	60	80	■ PERCENT GRAVEL ■				20	40	60	80	DEPTH (ft)
▲ PERCENT FINES ▲																															
20	40	60	80																												
● PERCENT SAND ●																															
20	40	60	80																												
■ PERCENT GRAVEL ■																															
20	40	60	80																												
10.0						34.0																									
11.0						36.0																									
12.0	☒	8				40.0																									
			END OF BOREHOLE AT 12.3 m			42.0																									
13.0						44.0																									
14.0						46.0																									
15.0						48.0																									
16.0						50.0																									
17.0						52.0																									
18.0						54.0																									
19.0						56.0																									
20.0						58.0																									
						60.0																									
						62.0																									
						64.0																									

EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 12.1 m		COMPLETE 78/07/30	
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DEMPSTER HIGHWAY CORRIDOR		SOURCE: km 377.8, YT, Centreline		BOREHOLE No. 3778B001		
GRANULAR RESOURCE INVENTORY		UTM ZONE: 8 N7370180.00 E423850.00		Project No: 0201-4989		
DIAND		ORIGINAL BOREHOLE NUMBER 1		ELEVATION 0.00 (m)		
SAMPLE TYPE ☒ GRAB ☐ NO RECOVERY ☒ STANDARD PEN. ☐ 75 mm SPOON ☐ 75 mm CRREL ☐ 100 mm CRREL						
DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID 20 40 60 80 ▲ PERCENT FINES ▲ 20 40 60 80 ● PERCENT SAND ● 20 40 60 80 ■ PERCENT GRAVEL ■ 20 40 60 80	DEPTH (ft)
0.0			0.3 m OF ORGANIC MATERIAL			0.0
			SILT AND CLAY (CL) - trace of sand, medium plastic, frozen with ice lenses throughout			2.0
1.0						4.0
2.0		1		CL		6.0
3.0			SAND (SM) - gravelly, some silt, some clay, gravel is fine grained up to 20 mm in diameter, low plastic, frozen with some ice lenses and crystals			8.0
4.0		2		SM		10.0
5.0						12.0
6.0		3		SM		14.0
7.0		4		SM		16.0
8.0						18.0
9.0		5		SM		20.0
10.0		6		ML		22.0
			SILT AND CLAY (ML) - sandy, low plastic, ice lenses throughout			24.0
						26.0
						28.0
						30.0
						32.0
EBA Engineering Consultants Ltd. Whitehorse, Yukon				COMPLETION DEPTH 14.3 m COMPLETE 72/04/22 LOGGED BY DWG NO. Page 1 of 2		

DEMPSTER HIGHWAY CORRIDOR		SOURCE: km 377.8, YT, Centreline		BOREHOLE No. 3778B001	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 8 N7370180.00 E423850.00		Project No: 0201-4989	
DIAND		ORIGINAL BOREHOLE NUMBER 1		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB		☒ NO RECOVERY		☒ STANDARD PEN.	
		☐ 75 mm SPOON		☐ 75 mm CRREL	
				☐ 100 mm CRREL	



EBA Engineering Consultants Ltd.
Whitehorse, Yukon

COMPLETION DEPTH 14.3 m

COMPLETE 72/04/22

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DEMPSTER HIGHWAY CORRIDOR		SOURCE: km 377.8, YT, Centreline		BOREHOLE No. 3778B002	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 8 N7370180.00 E423850.00		Project No: 0201-4989	
DIAND		ORIGINAL BOREHOLE NUMBER 2		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB		☒ NO RECOVERY		☒ STANDARD PEN.	
		☐ 75 mm SPOON		☐ 75 mm CRREL	
				☐ 100 mm CRREL	

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID 20 40 60 80	PERCENT FINES ▲			PERCENT SAND ●			PERCENT GRAVEL ■			DEPTH (ft)
						20	40	60	80	20	40	60	80	20	
0.0			SILT (ML) - sandy, some clay, low to medium plastic, frozen, ice rich, lenses throughout											0.0	
-1.0														-2.0	
-2.0		1		ML										-6.0	
-3.0														-8.0	
-4.0		2		ML										-10.0	
-5.0														-12.0	
-6.0														-14.0	
-7.0														-16.0	
-8.0		3	SILT - SAND - GRAVEL MIX (SM) - varying clay content, gravel is fine up to 12 mm in diameter, low plastic, frozen, Vs <5%	SM										-18.0	
-9.0		4		SM										-20.0	
-10.0		5		SM										-22.0	
-11.0														-24.0	
-12.0		6		SM										-26.0	
-13.0														-28.0	
-14.0														-30.0	
-15.0		7		SM										-32.0	

EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 14.3 m		COMPLETE 72/04/22	
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DEMPSTER HIGHWAY CORRIDOR		SOURCE: km 377.8, YT, Centreline		BOREHOLE No. 3778B002	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 8 N7370180.00 E423850.00		Project No: 0201-4989	
DIAND		ORIGINAL BOREHOLE NUMBER 2		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB		☒ NO RECOVERY		☒ STANDARD PEN.	
		☐ 75 mm SPOON		☐ 75 mm CRREL	
				☐ 100 mm CRREL	

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID 20 40 60 80	▲ PERCENT FINES ▲ 20 40 60 80	● PERCENT SAND ● 20 40 60 80	■ PERCENT GRAVEL ■ 20 40 60 80	DEPTH (ft)
10.0			- gravel content incerase below 10 m						34.0
11.0		8		SM					36.0
12.0		9		SM					40.0
13.0		10		SM					44.0
14.0			END OF BOREHOLE AT 14.3 m - NORTH ABUTMENT, EAGLE RIVER BRIDGE						46.0
15.0									50.0
16.0									52.0
17.0									56.0
18.0									58.0
19.0									62.0
20.0									64.0

EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 14.3 m		COMPLETE 72/04/22	
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DEMPSTER HIGHWAY CORRIDOR		SOURCE: km 377.8, YT, Centreline		BOREHOLE No. 3778B003	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 8 N7370185.00 E423850.00		Project No: 0201-4989	
DIAND		ORIGINAL BOREHOLE NUMBER 3		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB ☒ NO RECOVERY ☒ STANDARD PEN. ☒ 75 mm SPOON ☐ 75 mm CRREL ☐ 100 mm CRREL					

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID 	▲ PERCENT FINES ▲ 20406080 ● PERCENT SAND ● 20406080 ■ PERCENT GRAVEL ■ 20406080			DEPTH (ft)
						20406080			
0.0			SILT (ML) - some clay, some sand, low to medium plastic, frozen, ice rich with lenses throughout						0.0
-1.0									-2.0
-2.0		1		ML					-4.0
-3.0									-6.0
-4.0		2	SAND (SM) - gravelly, some silt, trace of clay, gravel is fine grained, low plastic, frozen, small ice lenses throughout	SM					-8.0
-5.0									-10.0
-6.0		3		SM					-12.0
-7.0									-14.0
-8.0		4		SM					-16.0
-9.0									-18.0
-10.0		5		SM					-20.0
-11.0									-22.0
-12.0									-24.0
-13.0									-26.0
-14.0									-28.0
-15.0									-30.0
-16.0									-32.0
			END OF BOREHOLE AT 9.2 m - NORTH ABUTMENT, EAGLE RIVER BRIDGE						

EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 9.2 m		COMPLETE 72/04/25	
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DEMPSTER HIGHWAY CORRIDOR		SOURCE: km 377.8, YT, Centreline		BOREHOLE No. 3778B004	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 8 N7370185.00 E423850.00		Project No: 0201-4989	
DIAND		ORIGINAL BOREHOLE NUMBER 4		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB ☐ NO RECOVERY ☒ STANDARD PEN. ☐ 75 mm SPOON ☐ 75 mm CRREL ☐ 100 mm CRREL					

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID 	▲ PERCENT FINES ▲ 20406080 ● PERCENT SAND ● 20406080 ■ PERCENT GRAVEL ■ 20406080	DEPTH (ft)
0.0			ICE				0.0
1.0			WATER				2.0
2.0			SAND AND GRAVEL (SM to GP) - silty, loose to medium dense				4.0
3.0							6.0
4.0			- gravel consists of sandstone and shale fragments				8.0
5.0		1	SILT (ML/CL) - some sand to sandy, clayey low to medium plastic, firm	ML	●	■ ● ▲	10.0
6.0		2		ML	●	■ ● ▲	12.0
7.0		3		ML	●	■ ● ▲	14.0
8.0		4	SAND (SM) - some gravel to gravelly, trace of silt, trace of clay, medium dense	SM	●	■ ● ▲	16.0
9.0		5		SM	●	■ ● ▲	18.0
10.0			SILT AND CLAY (ML/CL) - some sand to sandy, low plastic, stiff or dense				20.0

EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 17.7 m		COMPLETE 72/04/26
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DEMPSTER HIGHWAY CORRIDOR		SOURCE: km 377.8, YT, Centreline		BOREHOLE No. 3778B004	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 8 N7370185.00 E423850.00		Project No: 0201-4989	
DIAND		ORIGINAL BOREHOLE NUMBER 4		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB ☒ NO RECOVERY ☒ STANDARD PEN. ☒ 75 mm SPOON ☒ 75 mm CRREL ☒ 100 mm CRREL					

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID 20 40 60 80	▲ PERCENT FINES ▲ 20 40 60 80 ● PERCENT SAND ● 20 40 60 80 ■ PERCENT GRAVEL ■ 20 40 60 80	DEPTH (ft)
10.0							34.0
		6		ML			
11.0		7		ML			35.0
							38.0
12.0		8		ML			40.0
		9		ML			42.0
13.0							44.0
		10		ML			46.0
14.0		11		ML			48.0
		12		ML			50.0
15.0		13		ML			52.0
16.0							54.0
		14		ML			56.0
17.0		15	- ice lenses from 17.2 to 17.5 m	ML			58.0
			END OF BOREHOLE AT 17.7 m - MIDSPAN ABUTMENT, EAGLE RIVER BRIDGE				60.0
18.0							62.0
19.0							64.0
20.0							

EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 17.7 m	COMPLETE 72/04/26
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DEMPSTER HIGHWAY CORRIDOR		SOURCE: km 377.8, YT, Centreline		BOREHOLE No. 3778B005	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 8 N7370185.00 E423850.00		Project No: 0201-4989	
DIAND		ORIGINAL BOREHOLE NUMBER 5		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB ☒ NO RECOVERY ☒ STANDARD PEN. ☒ 75 mm SPOON ☐ 75 mm CRREL ☐ 100 mm CRREL					

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC 20 40 60 80 M.C. 20 40 60 80 LIQUID 20 40 60 80	▲ PERCENT FINES ▲ 20 40 60 80 ● PERCENT SAND ● 20 40 60 80 ■ PERCENT GRAVEL ■ 20 40 60 80	DEPTH (ft)
0.0			ICE				0.0
1.0			WATER				4.0
2.0			SAND AND GRAVEL (SM to GP) – silty, loose to medium dense				6.0
3.0							10.0
4.0			– gravel consists of shale and sandstone derivatives				12.0
5.0			SILT AND CLAY (ML/CL) – sandy, low plastic, firm to stiff				14.0
6.0	1		SAND AND GRAVEL (SM) – silty, trace of clay, low plastic, medium dense	CL			18.0
7.0	2			CL			20.0
8.0	3			ML			22.0
9.0	4			ML			24.0
10.0	5			SM			26.0
	6			SM			28.0
	7			SM			32.0

EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 18.0 m		COMPLETE 72/04/29	
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DEMPSTER HIGHWAY CORRIDOR		SOURCE: km 377.8, YT, Centreline		BOREHOLE No. 3778B005	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 8 N7370185.00 E423850.00		Project No: 0201-4989	
DIAND		ORIGINAL BOREHOLE NUMBER 5		ELEVATION 0.00 (m)	
SAMPLE TYPE		☒ GRAB ☐ NO RECOVERY ☒ STANDARD PEN. ☐ 75 mm SPOON ☐ 75 mm CRREL ☐ 100 mm CRREL			

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID			▲ PERCENT FINES ▲ 20 40 60 80 ● PERCENT SAND ● 20 40 60 80 ■ PERCENT GRAVEL ■ 20 40 60 80			DEPTH (ft)	
					20	40	60	80	20	40		60
10.0		8	SILT (ML) - clayey, trace of sand, low plastic, stiff to medium dense to 12 m	SM							34.0	
11.0		9		ML								36.0
12.0		10		ML								38.0
13.0		11		ML								42.0
14.0		12		ML								44.0
15.0		13		ML								46.0
16.0		14		ML								48.0
17.0		15		ML								52.0
18.0		16		ML								54.0
19.0		17		ML								56.0
20.0		18	ML								58.0	
			END OF BOREHOLE AT 18.0 m - MIDSPAN ABUTMENT, EAGLE RIVER BRIDGE								60.0	
											62.0	
											64.0	

- no permafrost throughout depth of hole

EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 18.0 m		COMPLETE 72/04/29	
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DEMPSTER HIGHWAY CORRIDOR		SOURCE: km 377.8, YT, Centreline		BOREHOLE No. 3778B006	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 8 N7370185.00 E423850.00		Project No: 0201-4989	
DIAND		ORIGINAL BOREHOLE NUMBER 6		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB		☐ NO RECOVERY		☒ STANDARD PEN.	
		☐ 75 mm SPOON		☐ 75 mm CRREL	
				☐ 100 mm CRREL	

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID			PERCENT FINES			DEPTH (ft)
					20	40	60	80	20	40	
0.0			SAND (SW/SM) - gravelly, some silt to silty, below 6.0 m, gravel is 40 mm in diameter maximum, medium dense								0.0
1.0											1.0
2.0											2.0
3.0			- easy drilling								3.0
4.0		1		CL-ML							4.0
5.0		2	- coarse sand lens from 4.3 to 5.4 m	SW							5.0
6.0											6.0
7.0		3		SM							7.0
8.0		4		SM							8.0
9.0											9.0
10.0		5		SM							10.0

EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 15.0 m		COMPLETE 72/05/05	
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DEMPSTER HIGHWAY CORRIDOR		SOURCE: km 377.8, YT, Centreline		BOREHOLE No. 3778B006	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 8 N7370185.00 E423850.00		Project No: 0201-4989	
DIAND		ORIGINAL BOREHOLE NUMBER 6		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB		☒ NO RECOVERY		☒ STANDARD PEN.	
		☐ 75 mm SPOON		☐ 75 mm CRREL	
				☐ 100 mm CRREL	

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID			PERCENT FINES			DEPTH (ft)
					20	40	60	80	20	40	
10.0		6	SILT AND CLAY (ML/CL) - trace of sand, trace of gravel, low to medium plastic, stiff	SM							34.0
11.0		7		SM							36.0
12.0		8		SM							38.0
13.0		9		CL							42.0
14.0		10		CL							44.0
15.0		11	- no permafrost throughout depth of hole	ML							46.0
16.0		12		ML							48.0
17.0			END OF BOREHOLE AT 15.0 m - SOUTH ABUTMENT, EAGLE RIVER BRIDGE								50.0
18.0											52.0
19.0											54.0
20.0											56.0
											58.0
											60.0
											62.0
											64.0

EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 15.0 m	COMPLETE 72/05/05
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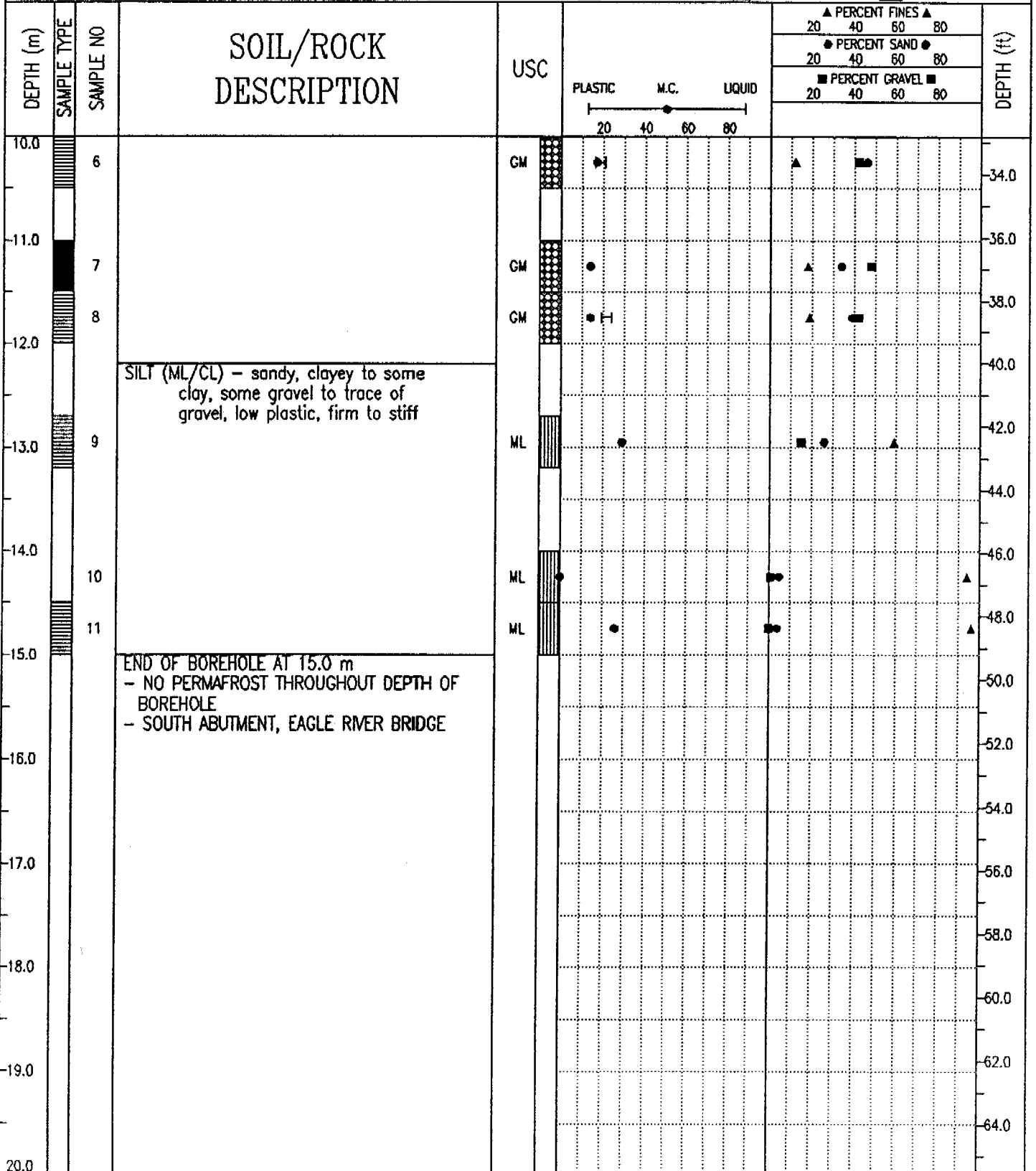
DEMPSTER HIGHWAY CORRIDOR		SOURCE: km 377.8, YT, Centreline		BOREHOLE No. 3778B007	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 8 N7370155.00 E423850.00		Project No: 0201-4989	
DIAND		ORIGINAL BOREHOLE NUMBER 7		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB ☐ NO RECOVERY ☒ STANDARD PEN. ☐ 75 mm SPOON ☐ 75 mm CRREL ☐ 100 mm CRREL					

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID 20 40 60 80	▲ PERCENT FINES ▲ 20 40 60 80 ● PERCENT SAND ● 20 40 60 80 ■ PERCENT GRAVEL ■ 20 40 60 80			DEPTH (ft)
0.0			SAND AND GRAVEL (GM) - some silt, trace of clay, medium dense, up to 75 mm in diameter						0.0
1.0									2.0
2.0									4.0
3.0									6.0
4.0		1		GM					8.0
5.0		2		GM					10.0
6.0			SILT (ML) - clayey, sandy, trace of gravel, medium dense						12.0
7.0		3		ML					14.0
8.0		4	- gravel lenses throughout	ML					16.0
9.0			GRAVEL AND SAND (GM) - some silt, trace of clay, gravel up to 75 mm in diameter, medium dense						18.0
10.0		5		GM					20.0
									22.0
									24.0
									26.0
									28.0
									30.0
									32.0

EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 15.0 m	COMPLETE 72/05/10
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DEMPSTER HIGHWAY CORRIDOR	SOURCE: km 377.8, YT, Centreline	BOREHOLE No. 3778B007
GRANULAR RESOURCE INVENTORY	UTM ZONE: 8 N7370155.00 E423850.00	Project No: 0201-4989
DIAND	ORIGINAL BOREHOLE NUMBER 7	ELEVATION 0.00 (m)

SAMPLE TYPE	☒ GRAB	☒ NO RECOVERY	☒ STANDARD PEN.	☐ 75 mm SPOON	☐ 75 mm CRREL	☐ 100 mm CRREL
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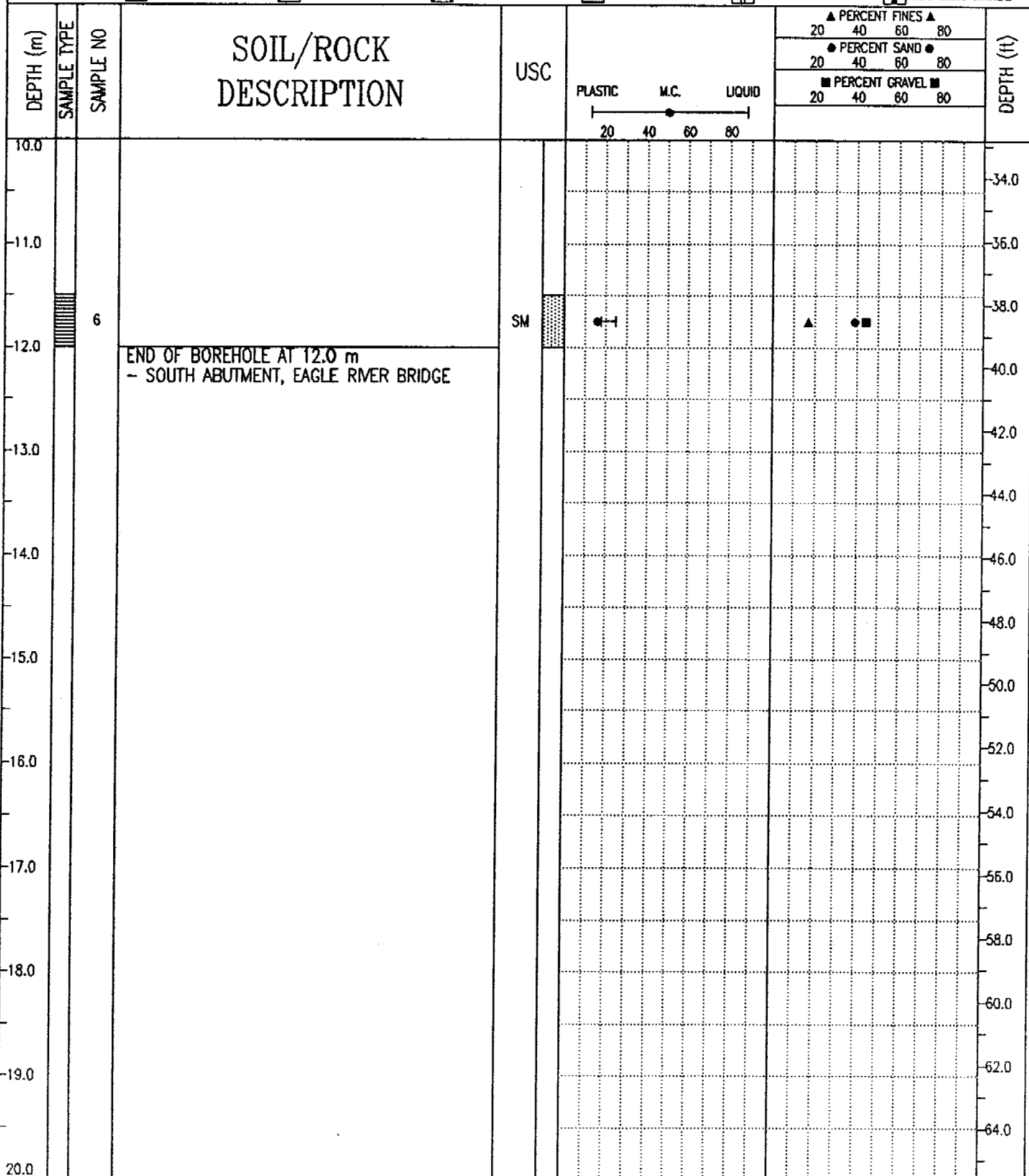
COMPLETION DEPTH 15.0 m	COMPLETE 72/05/10
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DEMPSTER HIGHWAY CORRIDOR		SOURCE: km 377.8, YT, Centreline		BOREHOLE No. 3778B008	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 8 N7370155.00 E423850.00		Project No: 0201-4989	
DIAND		ORIGINAL BOREHOLE NUMBER 8		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB		☐ NO RECOVERY		☒ STANDARD PEN.	
		☐ 75 mm SPOON		☐ 75 mm CRREL	
				☐ 100 mm CRREL	

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID			PERCENT FINES				DEPTH (ft)
					20 40 60 80			20 40 60 80				
					20 40 60 80			20 40 60 80				
					20 40 60 80			20 40 60 80				
0.0			SILT AND CLAY (ML-CL) - frozen, ice rich									0.0
1.0												2.0
2.0		1	SAND (SM) - gravelly, silt lenses throughout, gravel is up to 25 mm in diameter, horizontally bedded, frozen (Vs), low plastic when thawed	GM								6.0
3.0												8.0
4.0		2		SM								12.0
5.0												14.0
6.0		3		SM								16.0
7.0												18.0
8.0			SILT, SAND, GRAVEL MIXTURE (SM) - clayey to trace of clay, frozen to 6.1 m, low plastic, medium dense									20.0
9.0												22.0
10.0		4		ML								24.0
												26.0
		5		SM								28.0
												30.0
												32.0

EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 12.0 m		COMPLETE 72/05/08	
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DEMPSTER HIGHWAY CORRIDOR		SOURCE: km 377.8, YT, Centreline	BOREHOLE No. 3778B008
GRANULAR RESOURCE INVENTORY		UTM ZONE: 8 N7370155.00 E423850.00	Project No: 0201-4989
DIAND		ORIGINAL BOREHOLE NUMBER 8	ELEVATION 0.00 (m)
SAMPLE TYPE ☒ GRAB ☐ NO RECOVERY ☒ STANDARD PEN. ☐ 75 mm SPOON ☐ 75 mm CRREL ☐ 100 mm CRREL			



EBA Engineering Consultants Ltd.
Whitehorse, Yukon

COMPLETION DEPTH 12.0 m

COMPLETE 72/05/08

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DEMPSTER HIGHWAY CORRIDOR		SOURCE: km 377.8, YT, Centreline		BOREHOLE No. 3778BR11	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 8 N7370155.00 E423850.00		Project No: 0201-4989	
DIAND		ORIGINAL BOREHOLE NUMBER LR-11		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB		☐ NO RECOVERY		☒ STANDARD PEN.	
		☐ 75 mm SPOON		☐ 75 mm CRREL	
				☐ 100 mm CRREL	

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID			▲ PERCENT FINES ▲ 20 40 60 80 ● PERCENT SAND ● 20 40 60 80 ■ PERCENT GRAVEL ■ 20 40 60 80			DEPTH (ft)
					20	40	60	80	20	40	
0.0			SILT AND CLAY (OL) - some organics, wet								0.0
1.0		1		OL							4.0
2.0		2	SAND, GRAVEL AND SILT MIXTURE (SM) - clayey to trace of clay, gravel up to 40 mm in diameter, frozen from 1.5 m to 5.5 m (Nbn)	SM							6.0
3.0		3		SM							10.0
4.0		4		SM							12.0
5.0											16.0
6.0		5	- medium dense below 5.6 m	GM							20.0
7.0											24.0
8.0		6	SILT AND CLAY (ML-CL) - some sand, trace of fine gravel, low plastic, stiff	CL							28.0
9.0		7		CL-ML							32.0
10.0											

EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 16.5 m	COMPLETE 72/07/00
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DEMPSTER HIGHWAY CORRIDOR		SOURCE: km 377.8, YT, Centreline		BOREHOLE No. 3778BR11	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 8 N7370155.00 E423850.00		Project No: 0201-4989	
DIAND		ORIGINAL BOREHOLE NUMBER LR-11		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB		☐ NO RECOVERY		☒ STANDARD PEN.	
		☐ 75 mm SPOON		☐ 75 mm CRREL	
				☐ 100 mm CRREL	

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID			PERCENT FINES			DEPTH (ft)		
					20	40	60	80	20	40		60	80
10.0			SAND AND GRAVEL (SM) - some silt, trace of clay, gravel up to 50 mm in diameter, low plastic, stiff									34.0	
		8		SM									
11.0				SM									36.0
		9											
12.0				SM									38.0
		10											
13.0			SILT (ML) - clayey, trace of sand, low plastic, stiff										42.0
		11		SM									
		12		ML									44.0
		13		ML									46.0
14.0				ML									48.0
		14											
15.0			END OF BOREHOLE AT 16.5 m - SOUTH ABUTMENT RELOCATION, EAGLE RIVER BRIDGE										50.0
		15		ML									52.0
16.0													54.0
													56.0
17.0													58.0
													60.0
18.0													62.0
19.0													64.0
20.0													

EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 16.5 m		COMPLETE 72/07/00	
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DEMPSTER HIGHWAY CORRIDOR		SOURCE: km 377.8, YT, Centreline		BOREHOLE No. 3778BR12	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 8 N7370155.00 E423850.00		Project No: 0201-4989	
DIAND		ORIGINAL BOREHOLE NUMBER LR-12		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB		☐ NO RECOVERY		☒ STANDARD PEN.	
		☐ 75 mm SPOON		☐ 75 mm CRREL	
				☐ 100 mm CRREL	

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC 20 80 M.C. 20 80 LIQUID 20 80			▲ PERCENT FINES ▲ 20 80 ● PERCENT SAND ● 20 80 ■ PERCENT GRAVEL ■ 20 80			DEPTH (ft)				
					0.0			SILT AND CLAY (ML) - some organics, unfrozen							0.0
					1.0										2.0
					2.0										4.0
3.0		1	SAND (SM-SC) - gravelly to some gravel, some silt, some clay to trace of clay, gravel up to 25 mm in diameter, some silt laminae throughout, frozen to 6.0 m	SM					10.0						
4.0		2		SM					14.0						
5.0									18.0						
6.0		3	- wet below 6.0 m, medium dense below 6.0 m	SM					20.0						
7.0									22.0						
8.0		4		SM					24.0						
9.0		5		SM					28.0						
10.0		6		SM					30.0						
									32.0						

EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 15.5 m		COMPLETE 72/07/00	
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DEMPSTER HIGHWAY CORRIDOR		SOURCE: km 377.8, YT, Centreline		BOREHOLE No. 3778BR12	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 8 N7370155.00 E423850.00		Project No: 0201-4989	
DIAND		ORIGINAL BOREHOLE NUMBER LR-12		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB		☒ NO RECOVERY		☒ STANDARD PEN.	
		☐ 75 mm SPOON		☐ 75 mm CRREL	
				☐ 100 mm CRREL	

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC 20 40 60 80 M.C. LIQUID 20 40 60 80	PERCENT FINES			DEPTH (ft)
						PERCENT SAND	PERCENT GRAVEL		
10.0		7		SM	●	▲	●		34.0
		8		SM	●	▲	●		36.0
11.0									
		9		SM	●	▲	●		38.0
12.0		10		SM	●	▲	●		40.0
13.0									
		11	SILT (ML) - some clay, trace of sand, non plastic, firm to stiff	ML	●	▲	●		44.0
14.0		12		ML	●	▲	●		46.0
15.0		13		ML	●	▲	●		50.0
			END OF BOREHOLE AT 15.5 m - SOUTH ABUTMENT, EAGLE RIVER BRIDGE						52.0
16.0									54.0
17.0									56.0
18.0									58.0
19.0									60.0
20.0									62.0
									64.0

EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 15.5 m	COMPLETE 72/07/00
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DEMPSTER HIGHWAY CORRIDOR		SOURCE: km 377.8, YT, Centreline		BOREHOLE No. 3778BR13	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 8 N7370155.00 E423850.00		Project No: 0201-4989	
DIAND		ORIGINAL BOREHOLE NUMBER LR-13		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB		☒ NO RECOVERY		☒ STANDARD PEN.	
		☐ 75 mm SPOON		☐ 75 mm CRREL	
				☐ 100 mm CRREL	

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID 	▲ PERCENT FINES ▲ <table style="width: 100%; text-align: center; font-size: x-small;"> <tr><td>20</td><td>40</td><td>60</td><td>80</td></tr> </table> ● PERCENT SAND ● <table style="width: 100%; text-align: center; font-size: x-small;"> <tr><td>20</td><td>40</td><td>60</td><td>80</td></tr> </table> ■ PERCENT GRAVEL ■ <table style="width: 100%; text-align: center; font-size: x-small;"> <tr><td>20</td><td>40</td><td>60</td><td>80</td></tr> </table>	20	40	60	80	20	40	60	80	20	40	60	80	DEPTH (ft)
20	40	60	80																
20	40	60	80																
20	40	60	80																
0.0			SILT (ML) - clayey, some sand, some organics			0.0													
1.0			- frozen below 1.2 m			2.0													
2.0		1		ML	● —	4.0													
3.0			SAND AND GRAVEL (SM) - some silt, trace of clay, less gravel at top of unit, gravel up to 25 mm in diameter, frozen to 6.0 m (Vr), low plastic when thawed			6.0													
4.0		2		SM	● — ■ —	8.0													
5.0						10.0													
6.0		3		SM	● — ■ —	12.0													
7.0						14.0													
8.0		4		SM	● — H —	16.0													
9.0						18.0													
10.0		5		SM	● — H —	20.0													
			- loose to medium dense below 6.0 m			22.0													
		6		SM	● — H —	24.0													
						26.0													
						28.0													
						30.0													
						32.0													

EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 15.8 m	COMPLETE 72/07/00
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DEMPSTER HIGHWAY CORRIDOR		SOURCE: km 377.8, YT, Centreline		BOREHOLE No. 3778BR13	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 8 N7370155.00 E423850.00		Project No: 0201-4989	
DIAND		ORIGINAL BOREHOLE NUMBER LR-13		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB		☐ NO RECOVERY		☒ STANDARD PEN.	
		☐ 75 mm SPOON		☐ 75 mm CRREL	
				☐ 100 mm CRREL	

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID 			▲ PERCENT FINES ▲ 20 40 60 80 ● PERCENT SAND ● 20 40 60 80 ■ PERCENT GRAVEL ■ 20 40 60 80				DEPTH (ft)						
					10.0			SAND (SM) - some silt, trace of clay, trace of gravel, low plastic, loose	SM								34.0	
					11.0		7											36.0
					12.0													38.0
13.0		8	SILT (ML) - clayey, some to trace of sand, trace of fine gravel, low plastic, firm	SM							40.0							
14.0												42.0						
15.0												44.0						
16.0		9		ML							46.0							
17.0											48.0							
18.0											50.0							
19.0		10		ML							52.0							
20.0											54.0							
											56.0							
			END OF BOREHOLE AT 15.8 m - SOUTH BRIDGE ABUTMENT, EAGLE RIVER BRIDGE								58.0							
											60.0							
											62.0							
											64.0							

EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 15.8 m		COMPLETE 72/07/00	
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DEMPSTER HIGHWAY CORRIDOR		SOURCE: km 377.8, YT, Centreline		BOREHOLE No. 3778BR14	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 8 N7370155.00 E423850.00		Project No: 0201-4989	
DIAND		ORIGINAL BOREHOLE NUMBER LR-14		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB		☒ NO RECOVERY		☒ STANDARD PEN.	
		☐ 75 mm SPOON		☐ 75 mm CRREL	
				☐ 100 mm CRREL	

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID 20 40 60 80	▲ PERCENT FINES ▲ 20 40 60 80 ● PERCENT SAND ● 20 40 60 80 ■ PERCENT GRAVEL ■ 20 40 60 80	DEPTH (ft)
0.0			ORGANIC SILT (OL)				0.0
1.0			SILT AND CLAY (CL)				1.0
2.0			SAND AND GRAVEL (SM) - to gravelly, some silt to silty, trace of clay to some clay				2.0
3.0		1		SM			3.0
4.0		2	- gravel up to 50 mm in diameter - sand lenses and clay laminae present throughout, low plastic, medium dense	SM			4.0
5.0							5.0
6.0							6.0
7.0							7.0
8.0		4		SM			8.0
9.0		5		SM			9.0
10.0							10.0

EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 15.8 m		COMPLETE 72/07/00	
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DEMPSTER HIGHWAY CORRIDOR		SOURCE: km 377.8, YT, Centreline		BOREHOLE No. 3778BR14	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 8 N7370155.00 E423850.00		Project No: 0201-4989	
DIAND		ORIGINAL BOREHOLE NUMBER LR-14		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB ☒ NO RECOVERY ☒ STANDARD PEN. ☒ 75 mm SPOON ☐ 75 mm CRREL ☐ 100 mm CRREL					

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID	▲ PERCENT FINES ▲ ● PERCENT SAND ● ■ PERCENT GRAVEL ■	DEPTH (ft)
10.0							34.0
11.0		6		SM			36.0
12.0		7		SM			40.0
13.0							42.0
14.0		8	SILT AND CLAY (ML) - trace of sand, trace of gravel, low plastic, stiff	ML			46.0
15.0							50.0
16.0		9	END OF BOREHOLE AT 15.8 m - SOUTH ABUTMENT, EAGLE RIVER BRIDGE	ML			52.0
17.0							56.0
18.0							60.0
19.0							62.0
20.0							64.0

EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 15.8 m	COMPLETE 72/07/00
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DEMPSTER HIGHWAY CORRIDOR		SOURCE: km 378.0, YT, 6 m L OF HIGHWAY		BOREHOLE No. 3780BNE3	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 8 N7370350.00 E423850.00		Project No: 0201-4989	
DIAND		ORIGINAL BOREHOLE NUMBER DNE3		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB ☒ NO RECOVERY ☒ STANDARD PEN. ☒ 75 mm SPOON ☐ 75 mm CRREL ☐ 100 mm CRREL					

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID	▲ PERCENT FINES ▲	DEPTH (ft)
0.0			ORGANIC SILT (OL) - some sand, trace of gravel				0.0
1.0		1	SAND (SM/SW) - gravelly, trace of silt, wet, non plastic, gravel up to 40 mm in diameter	SM/SW			2.0
2.0			- water table at 2.2 m				4.0
3.0			END OF BOREHOLE AT 3.0 m				6.0
4.0							8.0
5.0							10.0
6.0							12.0
7.0							14.0
8.0							16.0
9.0							18.0
10.0							20.0
							22.0
							24.0
							26.0
							28.0
							30.0
							32.0

EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 3.0 m		COMPLETE 72/05/10	
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DEMPSTER HIGHWAY CORRIDOR		SOURCE: km 378.8, YT, 450 m L OF HIGHWAY		BOREHOLE No. 3788BNE6	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 8 N7370650.00 E423700.00		Project No: 0201-4989	
DIAND		ORIGINAL BOREHOLE NUMBER DNE6		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB		☒ NO RECOVERY		☒ STANDARD PEN.	
		☐ 75 mm SPOON		☐ 75 mm CRREL	
				☐ 100 mm CRREL	

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID			PERCENT FINES			DEPTH (ft)
					20 40 60 80			20 40 60 80			
					● PERCENT SAND ●			■ PERCENT GRAVEL ■			
					20 40 60 80			20 40 60 80			
0.0			GRAVEL (GM/GW) - sandy, some silt, moist to wet, cleaner below 1.2 m, gravel up to 75 mm in diameter								0.0
1.0		1									1.0
2.0		2									2.0
3.0			- frozen below 2.0 m								3.0
4.0			SILT (ML) - sandy, trace of clay, low plastic								4.0
5.0			END OF BOREHOLE AT 3.0 m								5.0
6.0											6.0
7.0											7.0
8.0											8.0
9.0											9.0
10.0											10.0

EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 3.0 m		COMPLETE 72/05/10	
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DEMPSTER HIGHWAY CORRIDOR			SOURCE: km 378.8, YT, 450 m L OF HIGHWAY		BOREHOLE No. 3788BNE7	
GRANULAR RESOURCE INVENTORY			UTM ZONE: 8 N7370650.00 E423700.00		Project No: 0201-4989	
DIAND			ORIGINAL BOREHOLE NUMBER DNE7		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB			☒ NO RECOVERY		☒ STANDARD PEN.	
			☐ 75 mm SPOON		☐ 75 mm CRREL	
					☐ 100 mm CRREL	

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID 20 40 60 80	▲ PERCENT FINES ▲ 20 40 60 80 ● PERCENT SAND ● 20 40 60 80 ■ PERCENT GRAVEL ■ 20 40 60 80	DEPTH (ft)
0.0			SAND (SM/SC) – gravelly, some silt, trace of clay, frozen, low plasticity				0.0
1.0							2.0
2.0							4.0
3.0		1	SILT (ML) – sandy, some clay, some gravel, frozen.	SM/SC	● HI	■	8.0
4.0			END OF BOREHOLE AT 3.0 m				10.0
5.0							12.0
6.0							14.0
7.0							16.0
8.0							18.0
9.0							20.0
10.0							22.0
							24.0
							26.0
							28.0
							30.0
							32.0

EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 3.0 m	COMPLETE 72/05/10
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DEMPSTER HIGHWAY CORRIDOR		SOURCE: km 378.8, YT, 450 m L OF HIGHWAY		BOREHOLE No. 3788BNE8	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 8 N7370650.00 E423700.00		Project No: 0201-4989	
DIAND		ORIGINAL BOREHOLE NUMBER DNE8		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB ☒ NO RECOVERY ☒ STANDARD PEN. ☒ 75 mm SPOON ☐ 75 mm CRREL ☐ 100 mm CRREL					

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID 20 40 60 80	▲ PERCENT FINES ▲ 20 40 60 80 ● PERCENT SAND ● 20 40 60 80 ■ PERCENT GRAVEL ■ 20 40 60 80	DEPTH (ft)
0.0			SAND (SC/SM) – some silt, some clay, some gravel, frozen (Vs 10%) saturated when thawed, low to medium plastic – ice lenses throughout – water table at 1.2 m				0.0
-1.0							-1.0
-2.0							-2.0
-3.0			END OF BOREHOLE AT 3.0 m				-3.0
-4.0							-4.0
-5.0							-5.0
-6.0							-6.0
-7.0							-7.0
-8.0							-8.0
-9.0							-9.0
-10.0							-10.0
-11.0							-11.0
-12.0							-12.0
-13.0							-13.0
-14.0							-14.0
-15.0							-15.0
-16.0							-16.0
-17.0							-17.0
-18.0							-18.0
-19.0							-19.0
-20.0							-20.0
-21.0							-21.0
-22.0							-22.0
-23.0							-23.0
-24.0							-24.0
-25.0							-25.0
-26.0							-26.0
-27.0							-27.0
-28.0							-28.0
-29.0							-29.0
-30.0							-30.0
-31.0							-31.0
-32.0							-32.0

EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 3.0 m	COMPLETE 72/05/10
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DEMPSTER HIGHWAY CORRIDOR		SOURCE: km 378.8, YT, 450 m L OF HIGHWAY		BOREHOLE No. 3788BNE9	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 8 N7370650.00 E423700.00		Project No: 0201-4989	
DIAND		ORIGINAL BOREHOLE NUMBER DNE9		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB		☒ NO RECOVERY		☒ STANDARD PEN.	
		☐ 75 mm SPOON		☐ 75 mm CRREL	
				☐ 100 mm CRREL	

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID 20 40 60 80	▲ PERCENT FINES ▲ 20 40 60 80 ● PERCENT SAND ● 20 40 60 80 ■ PERCENT GRAVEL ■ 20 40 60 80	DEPTH (ft)
0.0			GRAVEL AND SAND (GC) - trace of silt, trace of clay, frozen, wet when thawed, low plasticity				0.0
-1.0							-2.0
-2.0		1		GC	● —	▲ ● ■	-4.0
-3.0			- becomes medium plastic below 2.5 m - becomes medium plastic below 2.5 m SILT(ML)-sandy, trace of clay, trace of gravel, low to medium plastic END OF BOREHOLE AT 3.0 m				-6.0
-4.0							-8.0
-5.0							-10.0
-6.0							-12.0
-7.0							-14.0
-8.0							-16.0
-9.0							-18.0
-10.0							-20.0
							-22.0
							-24.0
							-26.0
							-28.0
							-30.0
							-32.0

EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 3.0 m	COMPLETE 72/05/10
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DEMSPTER HIGHWAY CORRIDOR		SOURCE: km 381.0, 470 m Left of Highway		BOREHOLE No. 3810B166		
GRANULAR RESOURCE INVENTORY		UTM ZONE: 8 N7371075.00 E424500.00		Project No: 0201-4989		
DIAND		ORIGINAL BOREHOLE NUMBER 78-166		ELEVATION 0.00 (m)		
SAMPLE TYPE ☒ GRAB ☐ NO RECOVERY ☒ STANDARD PEN. ☐ 75 mm SPOON ☐ 75 mm CRREL ☐ 100 mm CRREL						
DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID 20 40 60 80 ▲ PERCENT FINES ▲ ● PERCENT SAND ● ■ PERCENT GRAVEL ■ 20 40 60 80	DEPTH (ft)
0.0		1	NF at 0 to 0.6 m ORGANIC COVER			0.0
1.0		2	ORGANIC SILT (ML) - some fine sand, trace of fine gravel, slight plasticity, sand and silt laminations, greyish brown			2.0
2.0		3	Vs, Nbe at 0.6 to 2.9 m - ice lenses 1/4 - 2 mm spaced at 1 - 8 mm	ML		4.0
3.0		4	Nbe at 2.9 to 12.9			6.0
4.0		5				8.0
5.0		6				10.0
6.0		7	- sandier with depth, organic laminations (between 5.9 - 6.8 m)			12.0
7.0		8	SAND AND GRAVEL (SM) - sand fine to coarse stratified. layer of silt spaced at 0.3 - 0.5 m			14.0
8.0		9				16.0
9.0		10	- gravel mostly comprised of siltstone between 9.0 and 9.5 m			18.0
10.0			CLAY AND SILT (ML/CL) - gravelly, trace to some sand, medium plasticity,			20.0
						22.0
						24.0
						26.0
						28.0
						30.0
						32.0
EBA Engineering Consultants Ltd. Whitehorse, Yukon				COMPLETION DEPTH 12.9 m		COMPLETE 78/08/01
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DEMSPTER HIGHWAY CORRIDOR			SOURCE: km 381.0, 470 m Left of Highway			BOREHOLE No. 3810B166		
GRANULAR RESOURCE INVENTORY			UTM ZONE: 8 N7371075.00 E424500.00			Project No: 0201-4989		
DIAND			ORIGINAL BOREHOLE NUMBER 78-166			ELEVATION 0.00 (m)		
SAMPLE TYPE			☐ GRAB ☒ NO RECOVERY ☒ STANDARD PEN. ☐ 75 mm SPOON ☐ 75 mm CRREL ☐ 100 mm CRREL					
DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID 20 40 60 80	▲ PERCENT FINES ▲ 20 40 60 80 ● PERCENT SAND ● 20 40 60 80 ■ PERCENT GRAVEL ■ 20 40 60 80	DEPTH (ft)	
10.0			grey				34.0	
11.0		11					36.0	
12.0		12					40.0	
13.0			END OF BOREHOLE AT 12.9 m				42.0	
14.0							46.0	
15.0							50.0	
16.0							52.0	
17.0							56.0	
18.0							60.0	
19.0							62.0	
20.0							64.0	

EBA Engineering Consultants Ltd.
Whitehorse, Yukon

COMPLETION DEPTH 12.9 m

LOGGED BY

COMPLETE 78/08/01

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DEMSPTER HIGHWAY CORRIDOR		SOURCE: km 381.5, 370 m Left of Highway		BOREHOLE No. 3815B167	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 8 N7370450.00 E424500.00		Project No: 0201-4989	
DIAND		ORIGINAL BOREHOLE NUMBER 78-167		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB		☒ NO RECOVERY		☒ STANDARD PEN.	
		☐ 75 mm SPOON		☐ 75 mm CRREL	
				☐ 100 mm CRREL	

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID 20 40 60 80	DEPTH (ft)
0.0	☐	1	NF at 0.0 to 0.3 ORGANIC COVER			0.0
1.0	☐	2	GRAVEL AND ORGANIC SILT (GM) - trace of sand, cobbles of sandstone, slight plasticity, dark brown Vr,Vs at 0.3 to 1.0 m			2.0
2.0	☐	3	GRAVEL (GP) - trace to some sand, trace of silt and clay, gravel mostly subangular comprised of siltstone, sandstone and limestone, brownish grey			4.0
3.0	☐	4	Vx,Vr,Vc at 1.0 to 5.7 m			6.0
4.0	☐	5				8.0
5.0	☐					10.0
6.0	☒	6	CLAY AND SILT (ML/CL) - some gravel, trace sand, medium plasticity, grey			12.0
7.0	☐	7	SHALE - medium plasticity, grey to 8.6 m, brown to 9.0 m greyish black below			14.0
8.0	☐	8				16.0
9.0	☐	9				18.0
10.0	☐					20.0

EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 13.0 m	COMPLETE 75/08/01
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DEMSPTER HIGHWAY CORRIDOR		SOURCE: km 381.5, 370 m Left of Highway		BOREHOLE No. 3815B167	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 8 N7370450.00 E424500.00		Project No: 0201-4989	
DIAND		ORIGINAL BOREHOLE NUMBER 78-167		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB		☒ NO RECOVERY		☒ STANDARD PEN.	
		☐ 75 mm SPOON		☐ 75 mm CRREL	
				☐ 100 mm CRREL	

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID 20 40 60 80	▲ PERCENT FINES ▲ 20 40 60 80 ● PERCENT SAND ● 20 40 60 80 ■ PERCENT GRAVEL ■ 20 40 60 80	DEPTH (ft)
10.0							34.0
11.0							36.0
12.0		10					38.0
13.0		11					42.0
			END OF BOREHOLE AT 13.0 m				44.0
14.0							46.0
15.0							48.0
16.0							50.0
17.0							52.0
18.0							54.0
19.0							56.0
20.0							58.0
							60.0
							62.0
							64.0

EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 13.0 m		COMPLETE 78/08/01	
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DEMPSTER HIGHWAY CORRIDOR		SOURCE: km 391.1, YT, CENTRELINE OF HWY		BOREHOLE No. 3911B058	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 8 N7382800.00 E440300.00		Project No: 0201-4989	
DIAND		ORIGINAL BOREHOLE NUMBER NW-58		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB ☒ NO RECOVERY ☒ STANDARD PEN. ☒ 75 mm SPOON ☐ 75 mm CRREL ☐ 100 mm CRREL					

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID 20 40 60 80	▲ PERCENT FINES ▲ 20 40 60 80 ● PERCENT SAND ● 20 40 60 80 ■ PERCENT GRAVEL ■ 20 40 60 80	DEPTH (ft)	
0.0			ORGANIC SILT (OL)				0.0	
			GRAVEL (GC) - sandy, some clay, some silt, moist, low plastic				2.0	
-1.0							4.0	
		1		GC				6.0
-2.0			- frozen, gravel to 20 mm in diameter medium grey brown				8.0	
-3.0			END OF BOREHOLE AT 3.0 m				10.0	
-4.0							12.0	
-5.0							14.0	
-6.0							16.0	
-7.0							18.0	
-8.0							20.0	
-9.0							22.0	
-10.0							24.0	
							26.0	
							28.0	
							30.0	
							32.0	

EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 3.0 m		COMPLETE 72/07/01	
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DEMPSTER HIGHWAY CORRIDOR		SOURCE: km 393.6, YT, CENTRELINE OF HWY		BOREHOLE No. 3936B049	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 8 N7383600.00 E442000.00		Project No: 0201-4989	
DIAND		ORIGINAL BOREHOLE NUMBER NW-49		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB		☒ NO RECOVERY		☒ STANDARD PEN.	
		☒ 75 mm SPOON		☒ 75 mm CRREL	
				☐ 100 mm CRREL	

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID			PERCENT FINES			DEPTH (ft)
					20	40	60	80	20	40	
0.0			ORGANIC SILT (OL) - rock fragments throughout								0.0
1.0			GRAVEL (GP/GM) - some sand, trace of silt, gravel made up of shale fragments, damp, black, grave up to 60 mm in diameter								2.0
2.0		1	- possibly frozen below 1.2 m	GP/GM							4.0
3.0		2	- becomes finer; classifies as	ML							6.0
4.0			SILT AND SAND (ML) - some clay, trace of gravel, moist, low plastic, frozen								8.0
5.0			END OF BOREHOLE AT 3.0 m								10.0
6.0											12.0
7.0											14.0
8.0											16.0
9.0											18.0
10.0											20.0
											22.0
											24.0
											26.0
											28.0
											30.0
											32.0

EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 3.0 m		COMPLETE 72/06/30	
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DEMSPTER HIGHWAY CORRIDOR		SOURCE: km 432.9, 500 m Left of Highway		BOREHOLE No. 4329B171	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 8 N7409780.00 E440750.00		Project No: 0201-4989	
DIAND		ORIGINAL BOREHOLE NUMBER 78-171		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB ☐ NO RECOVERY ☒ STANDARD PEN. ☐ 75 mm SPOON ☐ 75 mm CRREL ☐ 100 mm CRREL					

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID ----- ----- ----- ----- 20 40 60 80	▲ PERCENT FINES ▲ ----- ----- ----- ----- 20 40 60 80 ● PERCENT SAND ● ----- ----- ----- ----- 20 40 60 80 ■ PERCENT GRAVEL ■ ----- ----- ----- ----- 20 40 60 80	DEPTH (ft)
0.0		1	NF at 0.00 to 0.4			0.0	
		2	ORGANIC COVER				
			ORGANIC SILT AND CLAY (ML/CL) - trace of sand and gravel, low to medium plasticity, peat inclusions, greyish brown				
-1.0		3	- ice lenses 3 - 8 mm spaced at 10 - 15 mm	ML/CL		-4.0	
			Nbe,Vs at 0.4 m to 1.3 m				
-2.0			ICE+ at 1.3 to 1.4 m			-6.0	
			Vx at 1.4 m to 1.7 m				
		4	Vr,Vx,Vc at 1.7 to 3.5 m				
			GRAVEL (GM) - some sand, coarse to fine, some silt, gravel subangular, grey			-8.0	
-3.0						-10.0	
		5	ICE+ at 3.5 m to 5.0 m			-12.0	
-4.0			ICE AND GRAVEL			-14.0	
		6	ICE AND SILT			-16.0	
-5.0		7	Nbe,Vx at 5.0 - 9.0 m			-18.0	
			LIMESTONE - highly fracture, upper portion gravelly, black, hard bouncing drill action			-20.0	
-6.0		8				-22.0	
						-24.0	
-7.0						-26.0	
		9				-28.0	
-8.0						-30.0	
		10	Nbn at 9.0 to 10.0 m			-32.0	
-9.0			SHALE AND SILTSTONE - thin limestone interbeds, low to medium plasticity dark grey, hard bouncing drill action				
-10.0		11					

EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 14.7 m		COMPLETE 78/08/04	
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DEMSPTR HIGHWAY CORRIDOR		SOURCE: km 432.9, 500 m Left of Highway		BOREHOLE No. 4329B171	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 8 N7409780.00 E440750.00		Project No: 0201-4989	
DIAND		ORIGINAL BOREHOLE NUMBER 78-171		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB		☒ NO RECOVERY		☒ STANDARD PEN.	
		☒ 75 mm SPOON		☐ 75 mm CRREL	
				☐ 100 mm CRREL	

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID 20 40 60 80	▲ PERCENT FINES ▲ 20 40 60 80 ● PERCENT SAND ● 20 40 60 80 ■ PERCENT GRAVEL ■ 20 40 60 80	DEPTH (ft)
10.0		12	Nbe at 10.0 to 14.7 m		●		34.0
11.0		13			●		36.0
12.0		14			●		38.0
13.0		15			●		40.0
14.0					●		42.0
15.0			END OF BOREHOLE AT 14.7 m				44.0
16.0							46.0
17.0							48.0
18.0							50.0
19.0							52.0
20.0							54.0
							56.0
							58.0
							60.0
							62.0
							64.0

EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 14.7 m	COMPLETE 78/08/04
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DEMSPETER HIGHWAY CORRIDOR		SOURCE: km 435.9, 250 m Left of Highway		BOREHOLE No. 4359B172	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 8 N7421500.00 E440075.00		Project No: 0201-4989	
DIAND		ORIGINAL BOREHOLE NUMBER 78-172		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB ☒ NO RECOVERY ☒ STANDARD PEN. ☒ 75 mm SPOON ☐ 75 mm CRREL ☐ 100 mm CRREL					

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID 20 40 60 80	▲ PERCENT FINES ▲ 20 40 60 80 ● PERCENT SAND ● 20 40 60 80 ■ PERCENT GRAVEL ■ 20 40 60 80	DEPTH (ft)
0.0		1	NF at 0.0 to 0.4 m ORGANIC COVER				0.0
		2	ORGANIC SILT AND PEAT (OL) - trace of sand fine, trace of gravel, dark brown, ice lenses 1/2 - 5 mm spaced at 1 - 5 mm				2.0
-1.0		3	Vs,Vr,Nbe,Vx at 0.4 to 2.0 m				4.0
-2.0		4	Nbe,Vr at 2.0 to 4.0 m				6.0
		5	GRAVEL AND SAND (GM/GP) - sand, coarse to fine, some silt, gravel is subangular comprised of limestone grey	GM/GP			8.0
-3.0		6					10.0
-4.0		7	Nbe,Nbn at 4.0 to 6.5 m SHALE - limestone interbeds, grey black				14.0
-5.0		8					18.0
-6.0		9					20.0
-7.0			END OF BOREHOLE AT 6.5 m				22.0
-8.0							26.0
-9.0							30.0
-10.0							32.0

EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 6.5 m	COMPLETE 78/08/04
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DEMSPETER HIGHWAY CORRIDOR		SOURCE: km 465.0, 100 m Left of Highway		BOREHOLE No. 4650B174	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 8 N7436100.00 E447000.00		Project No: 0201-4989	
DIAND		ORIGINAL BOREHOLE NUMBER 78-174		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB ☐ NO RECOVERY ☒ STANDARD PEN. ☐ 75 mm SPOON ☐ 75 mm CRREL ☐ 100 mm CRREL					

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID 20 40 60 80	▲ PERCENT FINES ▲ 20406080 ● PERCENT SAND ● 20406080 ■ PERCENT GRAVEL ■ 20406080	DEPTH (ft)
0.0			NF at 0.0 to 0.3 m			0.0	
		1	ORGANIC COVER				
		2	ORGANIC SILT (OL) - trace of fine sand,				
			trace of gravel, greenish brown,			2.0	
			ice lenses 1 - 6 mm spaced at				
			3 - 8 mm				
1.0		3				4.0	
		4	- some sand	OL			
			Vs at 0.3 to 0.4 m				
			ICE+ at 0.4 to 0.5 m			6.0	
2.0		5	Vs,Nbe at 0.5 to 1.0 m				
			ICE+ at 1.0 m to 1.2 m				
		6	Vr at 1.2 - 1.3 m			8.0	
			ICE+ at 1.3 - 1.4 m				
			Vr,Vs,Vx,Vc at 1.4 m to 5.0 m				
3.0			GRAVEL (GM) - some to sandy, sand, fine to			10.0	
			coarse, some silt, gravel mostly				
			comprised of quartzite and				
			sandstone, brown			12.0	
4.0							
						14.0	
						16.0	
5.0		8	END OF BOREHOLE AT 5.0 m				
						18.0	
						20.0	
						22.0	
						24.0	
						26.0	
						28.0	
						30.0	
						32.0	

EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 5.0 m	COMPLETE 78/08/09
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DEMSPETER HIGHWAY CORRIDOR		SOURCE: km 466.7, 1800 m Left of Highway		BOREHOLE No. 4667B176	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 8 N7436000.00 E449600.00		Project No: 0201-4989	
DIAND		ORIGINAL BOREHOLE NUMBER 78-177		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB		☒ NO RECOVERY		☒ STANDARD PEN.	
		☐ 75 mm SPOON		☐ 75 mm CRREL	
				☐ 100 mm CRREL	

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID 20 40 60 80	▲ PERCENT FINES ▲ 20 40 60 80 ● PERCENT SAND ● 20 40 60 80 ■ PERCENT GRAVEL ■ 20 40 60 80	DEPTH (ft)
0.0		1	NF at 0.0 to 0.4 ORGANIC COVER				0.0
			SILT AND CLAY (ML/CL) - some coarse to fine sand, some gravel, low plasticity, organic and peat inclusions, greyish brown with rusty laminations, ice crystal 1/2 - 3 mm spaced at 3 - 8 mm	ML/CL			2.0
		2	Vx at 0.4 to 1.2 m				4.0
		3	NF, Vx at 1.2 to 1.4 m				6.0
		4	GRAVEL (GM) - some coarse to fine sand, some silt and clay, brown, gravel comprised of oxidized siltstone				8.0
			ICE+ at 1.6 to 1.6 m				10.0
		5	ICE AND SILT AND CLAY				12.0
			Nbe at 1.6 to 2.3 m				14.0
		6	GRAVEL (GM) - some sand, coarse to fine, some silt and clay, brown, gravel comprised mostly of oxidized siltstone				16.0
			ICE+ at 2.3 to 2.5 m				18.0
		7	ICE AND SILT AND CLAY				20.0
			Vr, Vs at 2.5 to 4.0 m				22.0
		8	SHALE-SILTSTONE - low to medium plasticity fractured, grey				24.0
			Nbn at 4.0 to 6.5 m				26.0
		9					28.0
							30.0
		10					32.0
			END OF BOREHOLE AT 6.5 m				

EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 6.5 m		COMPLETE 78/08/10	
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DEMSPETER HIGHWAY CORRIDOR		SOURCE: km 466.8, 800 m Left of Highway		BOREHOLE No. 4668B175	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 8 N7436800.00 E448900.00		Project No: 0201-4989	
DIAND		ORIGINAL BOREHOLE NUMBER 78-175		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB		☒ NO RECOVERY		☒ STANDARD PEN.	
		☐ 75 mm SPOON		☐ 75 mm CRREL	
				☐ 100 mm CRREL	

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID			PERCENT FINES			DEPTH (ft)
					20 40 60 80			20 40 60 80			
					PERCENT SAND			PERCENT GRAVEL			
					20 40 60 80			20 40 60 80			
0.0		1	NF at 0.0 to 0.8 m ORGANIC COVER								0.0
		2	SILT AND CLAY (ML) - some sand, fine to coarse, trace of gravel, fine, low plasticity, organic inclusions, grey silt and clay pockets, brown								2.0
1.0		3	Vr at 0.8 to 1.3 m								4.0
		4	Vs, Vx, Nbn at 1.3 - 3.1 m	GM							6.0
		5	GRAVEL (GM) - some sand to sandy, coarse to fine, some silt, greyish brown, ice lenses 1/2 - 4 mm spaced at 1 - 15 mm								8.0
2.0		6	- sand layer at 1.4 m								10.0
		7	SILTSTONE - slight plasticity, brown								12.0
3.0		8	Nbn at 3.1 - 5.0 m								14.0
		9	SHALE - SILTSTONE - low plasticity, dark grey								16.0
4.0		10									18.0
		11									20.0
5.0			END OF BOREHOLE AT 5.0 m								22.0
6.0											24.0
7.0											26.0
8.0											28.0
9.0											30.0
10.0											32.0

EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 5.0 m		COMPLETE 78/08/10	
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DEMSPTER HIGHWAY CORRIDOR		SOURCE: km 499.9, 100 m Left of Highway		BOREHOLE No. 4999B179	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 8 N7454800.00 E472900.00		Project No: 0201-4989	
DIAND		ORIGINAL BOREHOLE NUMBER 78-179		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB ☐ NO RECOVERY ☒ STANDARD PEN. ☐ 75 mm SPOON ☐ 75 mm CRREL ☐ 100 mm CRREL					

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC 20 40 60 80 M.C. 20 40 60 80 LIQUID 20 40 60 80	▲ PERCENT FINES ▲ 20 40 60 80 ● PERCENT SAND ● 20 40 60 80 ■ PERCENT GRAVEL ■ 20 40 60 80	DEPTH (ft)
0.0		1	Nf at 0.0 to 0.3 m				0.0
		2	PEAT - dark brown				
		3	Nbe,Vr,Vx,Vs at 0.3 to 2.0 m				
		4	ORGANIC SILT AND CLAY (ML/CL) - trace of fine sand, trace of fine gravel, low plasticity, peat layers, ice lenses 1/4 - 3 mm spaced at 1 - 15 mm, ice crystals 2 - 8 mm spaced at 3 - 15 mm				
-1.0		5					-4.0
		6	Nbe,Vs,Vr at 2.0 to 3.6 m	ML/CL			-6.0
			SILT (ML) - sandy, fine to medium, slight plasticity, organic and peat laminations, greyish brown, ice lenses 1/2 - 2 mm spaced at 3 - 8 mm				-8.0
-3.0		8					-12.0
		9	Nbe at 3.6 - 4.0 m				-14.0
			GRAVEL (GM/GW) - sandy, coarse to fine, some silt, rusty greyish brown				-16.0
-4.0		10	Nbe,Vs at 4.0 to 5.2 m				-18.0
			ORGANIC SILT AND PEAT AND SAND (OL) - stratified, greyish brown with rusty zones, ice lenses 1/4 - 1 mm spaced at 1 - 15 mm				-20.0
-5.0		11	Nbn,Vs,Vx,Vr at 5.2 to 7.3 m	ML/CL			-22.0
			SILT AND CLAY (ML/CL) - trace of fine sand, slight to low plasticity, rusty laminations, organic inclusions, grey, ice lenses 1 - 8 mm spaced at 10 mm				-24.0
-6.0		12					-26.0
		13	Nbe at 7.3 to 7.5 m				-28.0
			PEAT (PT) - dark brown				-30.0
-7.0		14	Vs,Vr,Nbe at 7.5 to 14.7 m				-32.0
			SILT AND CLAY (ML) - laminated, grey				
-8.0		15					
		16	ICE+ (60 mm layer)				
-9.0			ICE+ (40 mm layer)				
-10.0		17		ML			

EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 15.2 m		COMPLETE 78/08/11	
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DEMSPTER HIGHWAY CORRIDOR		SOURCE: km 499.9, 100 m Left of Highway		BOREHOLE No. 4999B179	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 8 N7454800.00 E472900.00		Project No: 0201-4989	
DIAND		ORIGINAL BOREHOLE NUMBER 78-179		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB ☐ NO RECOVERY ☒ STANDARD PEN. ☐ 75 mm SPOON ☐ 75 mm CRREL ☐ 100 mm CRREL					

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID	<table border="1" style="width:100%; border-collapse: collapse; font-size: x-small;"> <tr> <td colspan="4">▲ PERCENT FINES ▲</td> </tr> <tr> <td>20</td> <td>40</td> <td>60</td> <td>80</td> </tr> <tr> <td colspan="4">● PERCENT SAND ●</td> </tr> <tr> <td>20</td> <td>40</td> <td>60</td> <td>80</td> </tr> <tr> <td colspan="4">■ PERCENT GRAVEL ■</td> </tr> <tr> <td>20</td> <td>40</td> <td>60</td> <td>80</td> </tr> </table>	▲ PERCENT FINES ▲				20	40	60	80	● PERCENT SAND ●				20	40	60	80	■ PERCENT GRAVEL ■				20	40	60	80	DEPTH (ft)
▲ PERCENT FINES ▲																															
20	40	60	80																												
● PERCENT SAND ●																															
20	40	60	80																												
■ PERCENT GRAVEL ■																															
20	40	60	80																												
10.0			SILT AND CLAY (ML/CL) - trace to some sand, slight to low plasticity, laminated, organic inclusions, grey ice layers, 20 - 30 mm, spaced at 100 - 150 mm from 8.5 - 11.0 m ice layers 50 mm thick from 11.0 - 11.3 m, sample not recovered from 11.5 to 14.7 m			34.0																									
		18				36.0																									
11.0		19				38.0																									
		20				40.0																									
12.0						42.0																									
13.0						44.0																									
14.0						46.0																									
15.0	☒	21	Vr,Vs at 14.7 to 15.2 m SILT (ML) - organic laminations, ice lenses 1 - 3 mm END OF BOREHOLE AT 15.2 m			48.0																									
						50.0																									
16.0						52.0																									
17.0						54.0																									
18.0						56.0																									
19.0						58.0																									
20.0						60.0																									
						62.0																									
						64.0																									

EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 15.2 m	COMPLETE 78/08/11
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DEMPSTER HIGHWAY CORRIDOR		SOURCE: km 585.0, 7600 m Left of Highway		BOREHOLE No. 5850B190	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 8 N7484400.00 E530500.00		Project No: 0201-4989	
DAIND		ORIGINAL BOREHOLE NUMBER 78-190		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB ☒ NO RECOVERY ☒ STANDARD PEN. ☐ 75 mm SPOON ☐ 75 mm CRREL ☐ 100 mm CRREL					

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID			PERCENT FINES			DEPTH (ft)
					20	40	60	80	20	40	
0.0		1	Nr at 0.0 to 0.5 m ORGANIC COVER								0.0
		2	ORGANIC SILT (ML/CL) - trace of fine sand, low plasticity, peat pockets, grey, ice lenses 1 - 3 mm spaced at 1 - 10 mm								2.0
-1.0		3	Vr,Vs at 0.5 - 1.2 m - ICE+ (70 mm) at 0.6 m								4.0
		4	ICE at 1.2 to 1.3 m ICE								6.0
-2.0		5	Vr at 1.3 - 1.7 m ORGANIC SILT AND CLAY (ML/CL) - some medium to fine sand, trace of gravel, low plasticity, pieces of sandstone, rusty greyish brown, ice lenses 1 - 6 mm spaced at 2 - 10 mm								8.0
-3.0		6	ICE+ at 1.7 - 2.4 m Vr,Vs at 2.4 - 3.0 m								10.0
-4.0		7	Nbe,Vr at 3.0 - 4.3 m PEAT AND ORGANIC SILT (OL) - dark brown, ice lenses 1/2 - 2 mm spaced at 2 - 10 mm								12.0
-5.0		9	Vr at 4.3 - 5.5 m GRAVEL (GM/GW) - some fine to coarse sand, trace to some silt, grey with rusty zones, gravel mostly comprised of sandstone, ice lenses 1/4 - 3 mm spaced at 1 - 15 mm								14.0
-6.0		12	Nbe at 5.5 to 7.5 m SHALE-SILTSTONE - low to medium plasticity grey								20.0
-7.0		16	Nbn at 7.5 to 8.5 m								26.0
-8.0			END OF BOREHOLE AT 8.5 m								28.0
-9.0											30.0
-10.0											32.0

EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 8.5 m		COMPLETE 78/08/15	
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DEMPSTER HIGHWAY CORRIDOR		SOURCE: km 648.0, 1500 m Left of Highway		BOREHOLE No. 6480B195	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 8 N7516200.00 E 55000.00		Project No: 0201-4989	
DAIND		ORIGINAL BOREHOLE NUMBER 78-195		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB		☒ NO RECOVERY		☒ STANDARD PEN.	
		☐ 75 mm SPOON		☐ 75 mm CRREL	
				☐ 100 mm CRREL	

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID			PERCENT FINES SAND GRAVEL				DEPTH (ft)	
					20	40	60	80	20	40	60		80
0.0			NF to 1.0 m ORGANIC COVER										0.0
		1	SILT AND CLAY (ML/CL) - sandy, fine to coarse, some gravel to gravelly, slight to low plasticity, organic pockets, brown										2.0
		2	Nbn at 1.0 to 8.5 m										4.0
		3											6.0
		4	GRAVEL (GM) - sandy, coarse to fine, some silt to silty, some clay, grey										8.0
		5	SANDSTONE - fine-grained, grey										10.0
		6	SHALE-SILTSTONE - low to medium plasticity grey										12.0
		7											14.0
		8											16.0
		9											18.0
		10											20.0
		11											22.0
		12											24.0
		13											26.0
		14											28.0
		15											30.0
		16											32.0
		17											
			END OF BOREHOLE AT 8.5 m										

EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 8.5 m	COMPLETE 78/08/16
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DEMPSTER HIGHWAY CORRIDOR		SOURCE: km 667.0, 650 m Right of Highway		BOREHOLE No. 6670B197	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 8 N7531000.00 E559400.00		Project No: 0201-4989	
DAIND		ORIGINAL BOREHOLE NUMBER 78-197		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB		☐ NO RECOVERY		☒ STANDARD PEN.	
		☐ 75 mm SPOON		☐ 75 mm CRREL	
				☐ 100 mm CRREL	

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID 20 40 60 80	▲ PERCENT FINES ▲ 20 40 60 80 ● PERCENT SAND ● 20 40 60 80 ■ PERCENT GRAVEL ■ 20 40 60 80	DEPTH (ft)
0.0			Nf at 0.0 to 0.5 m ORGANIC COVER			0.0	
		1	PEAT (PT) - dark brown				
		2	Nbe at 0.5 to 0.8 m			2.0	
		3	Vs at 0.8 to 1.0 m				
-1.0		4	ORGANIC SILT AND CLAY (ML/CL) - sandy, fine to coarse, trace of gravel, low plasticity			4.0	
		5	Vr,Vs,Vx at 1.0 to 2.3 m				
-2.0		6	CLAY AND SILT (ML/CL) - some coarse to fine sand, trace of gravel, low to medium plasticity, organic inclusions, ice lenses 1/2 - 5 mm spaced at 3 - 20 mm			6.0	
		7	Nbn at 2.3 to 2.9 m				
-3.0		8	GRAVEL (GM) - sitly, some clay, some sand, rusty greyish brown	ML/CL		8.0	
		9	Nbn,Nbe,Vr,Vs at 2.9 to 5.5 m				
-4.0		10	CLAY AND SILT (ML/CL) - sandy, coarse to fine, gravelly, low to medium plasticity, grey, ice lenses 1/4 - 2 mm spaced at 3 - 45 mm			10.0	
		11				12.0	
-5.0		12				14.0	
		13				16.0	
-6.0		14	Vr,Vs at 5.5 to 8.0 m			18.0	
		15	SAND (SM) - coarse to fine, gravelly, some silt and clay, grey			20.0	
-7.0		16				22.0	
		17				24.0	
-8.0		18				26.0	
			END OF BOREHOLE AT 8.0 m			28.0	
-9.0						30.0	
-10.0						32.0	

EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 8.0 m		COMPLETE 78/08/17	
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DEMPSTER HIGHWAY CORRIDOR		SOURCE: km 690.0, 2000 m Right of Hwy		BOREHOLE No. 6900B199	
GRANULAR RESOURCE INVENTORY		UTM ZONE: 8 N7550400.00 E565000.00		Project No: 0201-4989	
DAIND		ORIGINAL BOREHOLE NUMBER 78-199		ELEVATION 0.00 (m)	
SAMPLE TYPE ☒ GRAB		☐ NO RECOVERY		☒ STANDARD PEN.	
		☐ 75 mm SPOON		☐ 75 mm CRREL	
				☐ 100 mm CRREL	

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL/ROCK DESCRIPTION	USC	PLASTIC M.C. LIQUID 20 40 60 80	▲ PERCENT FINES ▲ ● PERCENT SAND ● ■ PERCENT GRAVEL ■ 20 40 60 80 20 40 60 80 20 40 60 80	DEPTH (ft)
0.0		1	NF at 0.0 to 0.3 m				0.0
		2	ORGANIC COVER				
		3	ORGANIC SILT (OL) - trace of fine sand, dark brown				2.0
1.0		4	Nbe,Vx at 0.3 to 0.5 m				
		5	SILT AND CLAY (ML/CL) - sandy, coarse to fine, some gravel, low plasticity, brown, ice lenses 2 - 5 mm spaced at 1 - 3 mm				4.0
2.0		6	ICE+ at 0.5 to 0.9 m				
		7	Vr,Vs at 0.9 to 1.9 m				6.0
		8	SAND (SM) - some silt, some gravel, trace of cobbles, rusty brown to 3.6 m, grey below, ice lenses 1/2 - 2 mm spaced at 1 - 3 mm				8.0
3.0		9	ICE+ at 1.9 to 2.0 m				
		10	Vs,Nbe,Nbn at 2.0 to 3.8 m				10.0
4.0		11	Vr,Vs at 3.8 to 4.5 m				
		12	SAND AND SILT (SM) - laminated, coal pockets, grey, ice lenses 2 - 3 mm spaced at 20 - 100 mm				12.0
5.0		13	Vr,Vs,Nbn at 4.5 - 6.3 m				
		14	SILTSTONE - sandstone interbeds, light grey				14.0
6.0		15					
		16					16.0
7.0		17					
		18					18.0
8.0		19					
		20					20.0
9.0		21					
		22					22.0
10.0		23					
		24					24.0
		25					
		26					26.0
		27					
		28					28.0
		29					
		30					30.0
		31					
		32					32.0

EBA Engineering Consultants Ltd. Whitehorse, Yukon		COMPLETION DEPTH 6.3 m		COMPLETE 78/08/17	
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