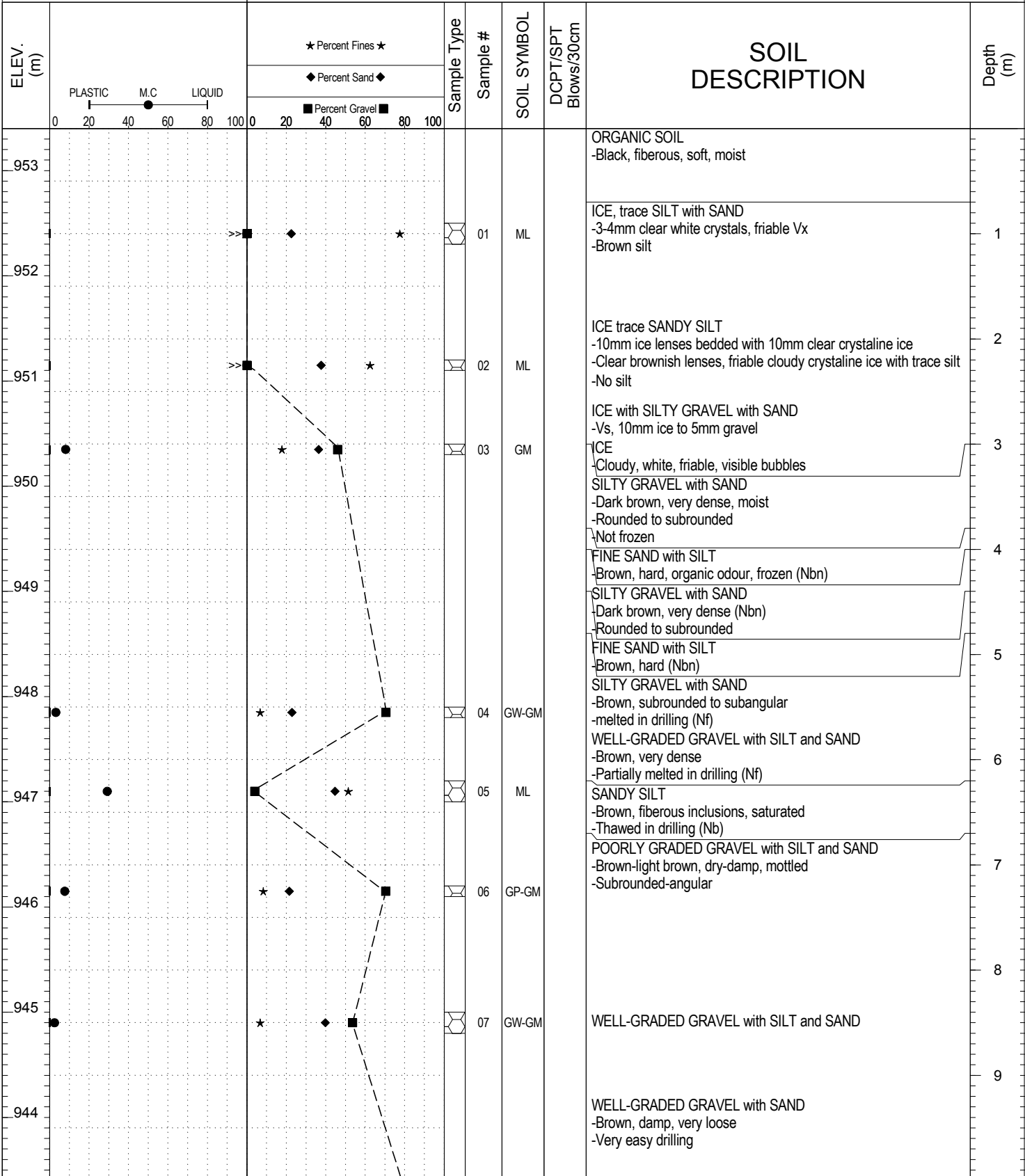


SUBSURFACE EXPLORATION AND TEST REPORT		Dempster Highway		SOURCE/TP#: 876-5319				
Boart Longyear		Establishment of Baseline Data 2015, km 264 LHS		PROJECT NO: 552-202021-0601 01-1				
Sonic Drill		Coordinates: Z8W N7303299m E373356m		ELEVATION: 821.1m				
SAMPLE TYPE		<input type="checkbox"/> UNDISTURBED <input checked="" type="checkbox"/> DCPT <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input checked="" type="checkbox"/> SPT <input type="checkbox"/> CORE						
ELEV. (m)	PLASTIC M.C LIQUID 0 20 40 60 80 100	★ Percent Fines ★ ◆ Percent Sand ◆ ■ Percent Gravel ■	Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
821							ORGANICS -Dark brown, firm, fibrous	
820				01	GM		SILTY GRAVEL with SAND -Dark brown, compact, damp, some fibrous organics	1
819				02	SM		SILTY SAND -Very dark brown, dense, damp	2
818				03	ML		Bedded Shale -highly weathered, friable with hands, visible oxidization. 0.1m	3
817				04	ML		ORGANIC SILT -Dark brown-black, aggregated, organic odour SANDY SILT -Grey-brown mudstone -Hard, dry, friable by hand	4
816							-darker colour, some glossy plates	5
815							END of HOLE	6
814								7
813								8
812								9

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE

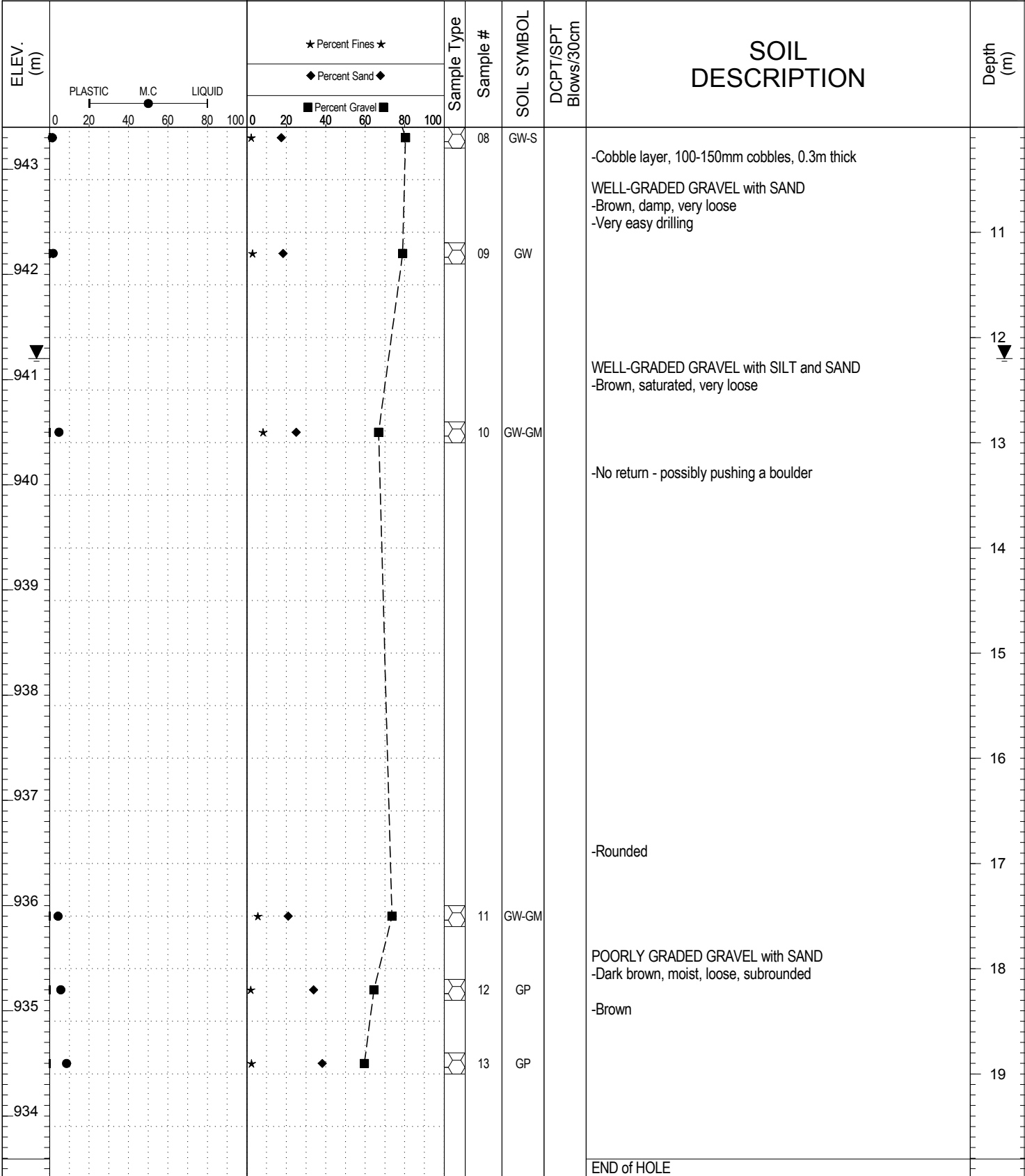


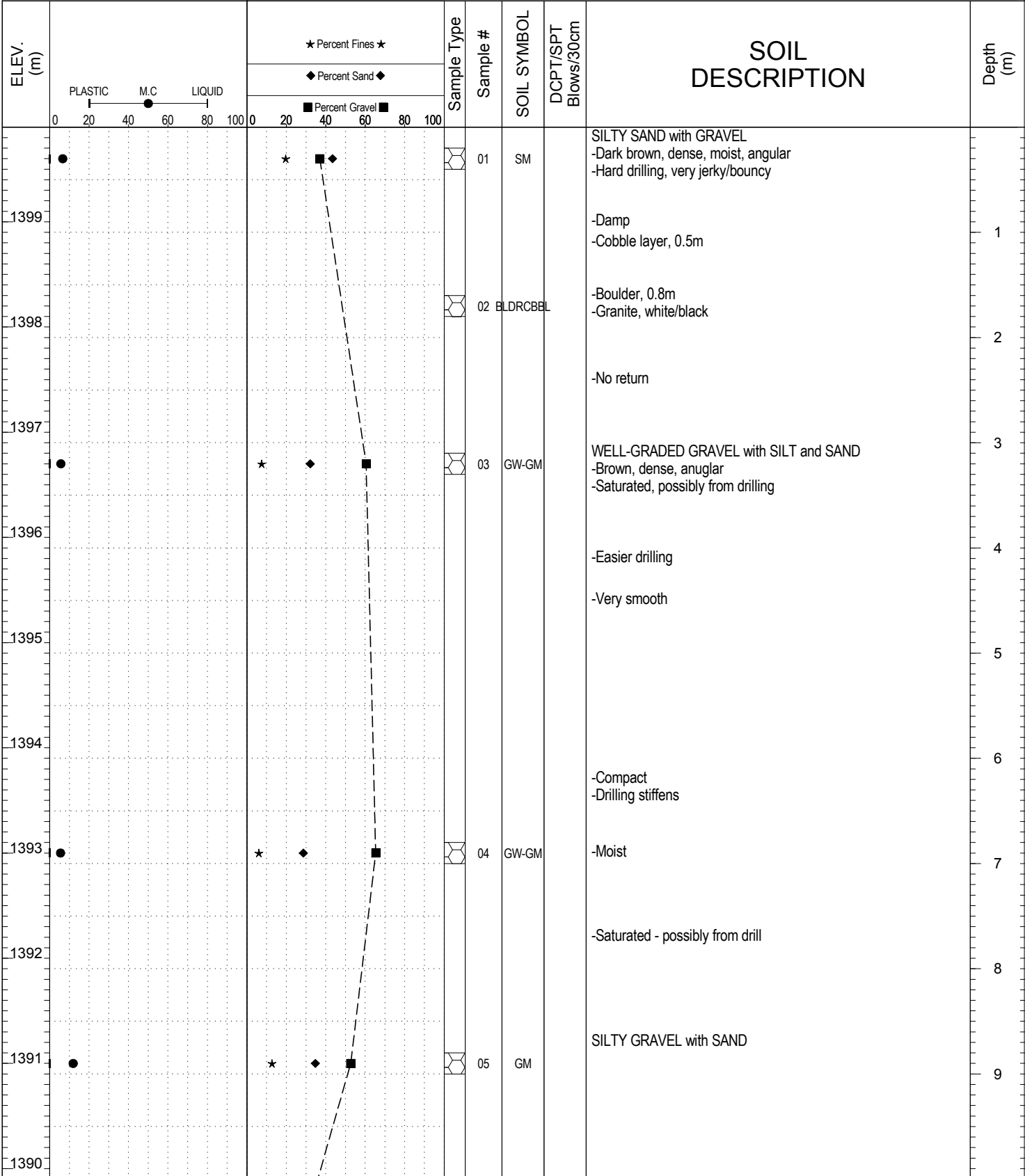
SUBSURFACE EXPLORATION AND TEST REPORT Dempster Highway SOURCE/TP#: 876-5320

Boart Longyear Establishment of Baseline Data 2015, km 124 LHS PROJECT NO: 552-202021-0601 01-1

Sonic Drill Coordinates: Z7W N7200442m E628786.6m ELEVATION: 953.4m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE



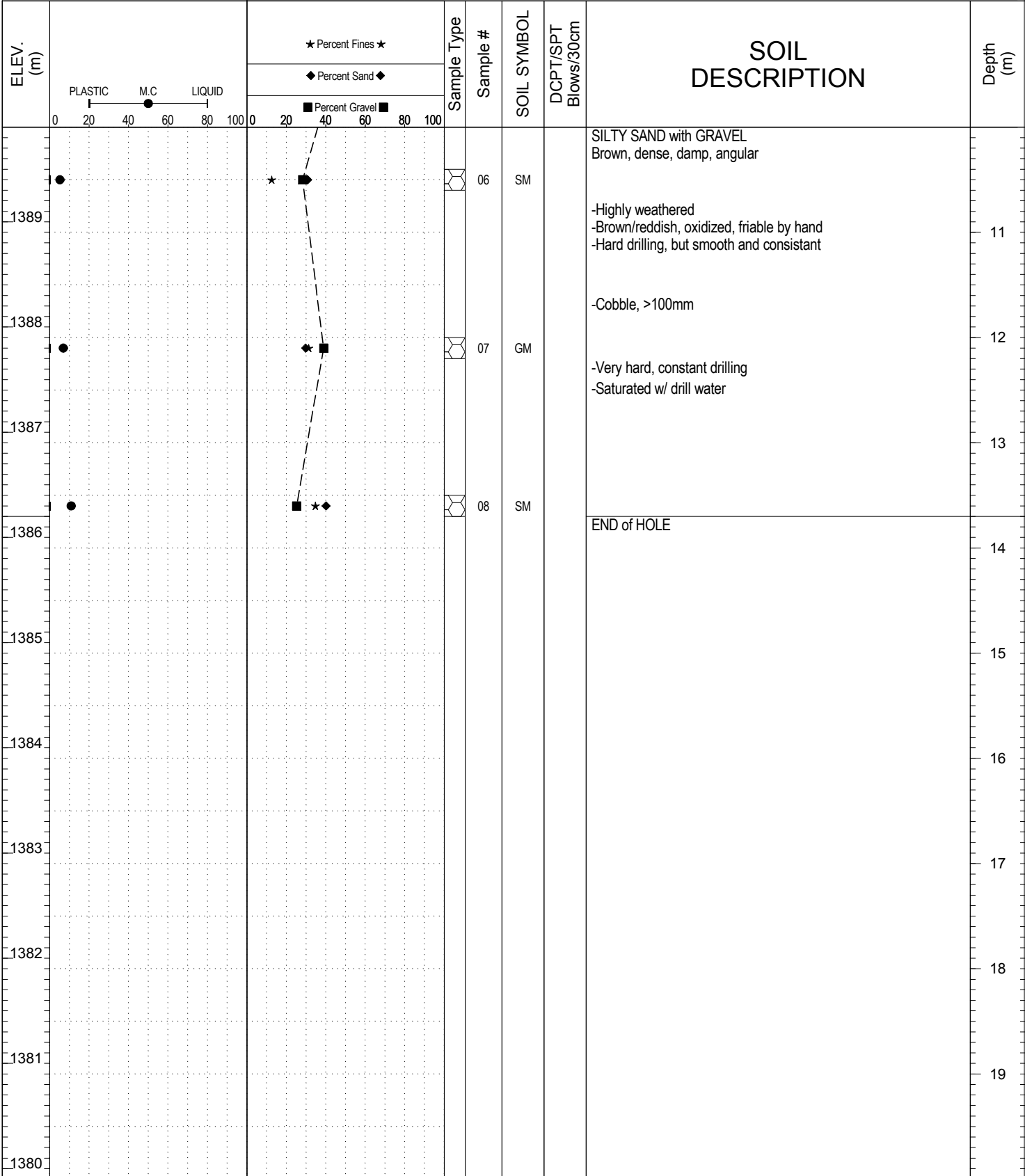


SUBSURFACE EXPLORATION AND TEST REPORT Dempster Highway SOURCE/TP#: 876-5321

Boart Longyear Establishment of Baseline Data 2015, km 82 RHS PROJECT NO: 552-202021-0601 01-1

Sonic Drill Coordinates: Z7W N7165131m E630347.7m ELEVATION: 1399.9m

SAMPLE TYPE UNDISTURBED DCPT AUGER BULK SPT CORE



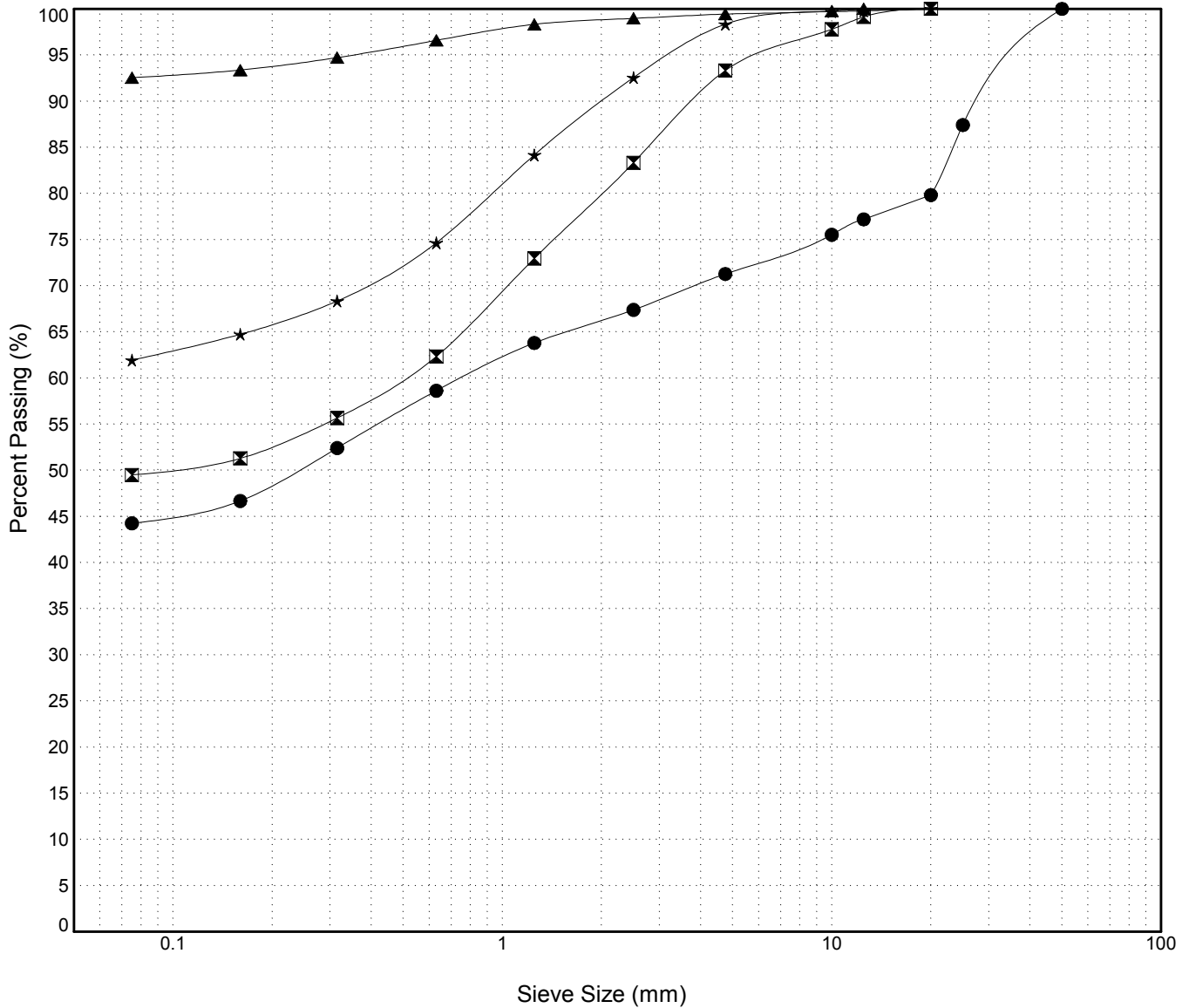
GRAIN SIZE ANALYSIS	Establishment of Baseline Data 2015	SOURCE/TP#: 876-5319
Boart Longyear	km 264 LHS	PROJECT NO: 552-202021-0601 01-1
Sonic Drill	Coordinates:Z8W N7303299m E373356m	ELEVATION: 821.1m

Master Revised July 2013

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 01	97	0.7 to 9.0	SILTY GRAVEL with SAND(GM)	14.1	NP	NP	NP		
☒ 02	98	1.9 to 2.0	SILTY SAND(SM)	13.8	NP	NP	NP		
▲ 03	99	2.5 to 2.6	SILT(ML)	10.1	NP	NP	NP		
★ 04	100	4.1 to 4.2	SANDY SILT(ML)	5.3	NP	NP	NP		

Field #	Lab #	% PASSING													% Breakdown				
		100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	Gravel	Sand	Silt	Clay
● 01	97	100.0	100.0	100.0	87.4	79.8	77.2	75.5	71.3	67.4	63.8	58.6	52.4	46.7	44.3	28.7	27.0	44.3	
☒ 02	98	100.0	100.0	100.0	100.0	100.0	99.1	97.8	93.3	83.3	73.0	62.3	55.7	51.3	49.5	6.7	43.8	49.5	
▲ 03	99	100.0	100.0	100.0	100.0	100.0	100.0	99.8	99.4	99.0	98.3	96.6	94.7	93.4	92.5	0.6	6.9	92.5	
★ 04	100	100.0	100.0	100.0	100.0	100.0	99.8	99.7	98.3	92.6	84.2	74.6	68.3	64.7	61.9	1.7	36.4	61.9	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



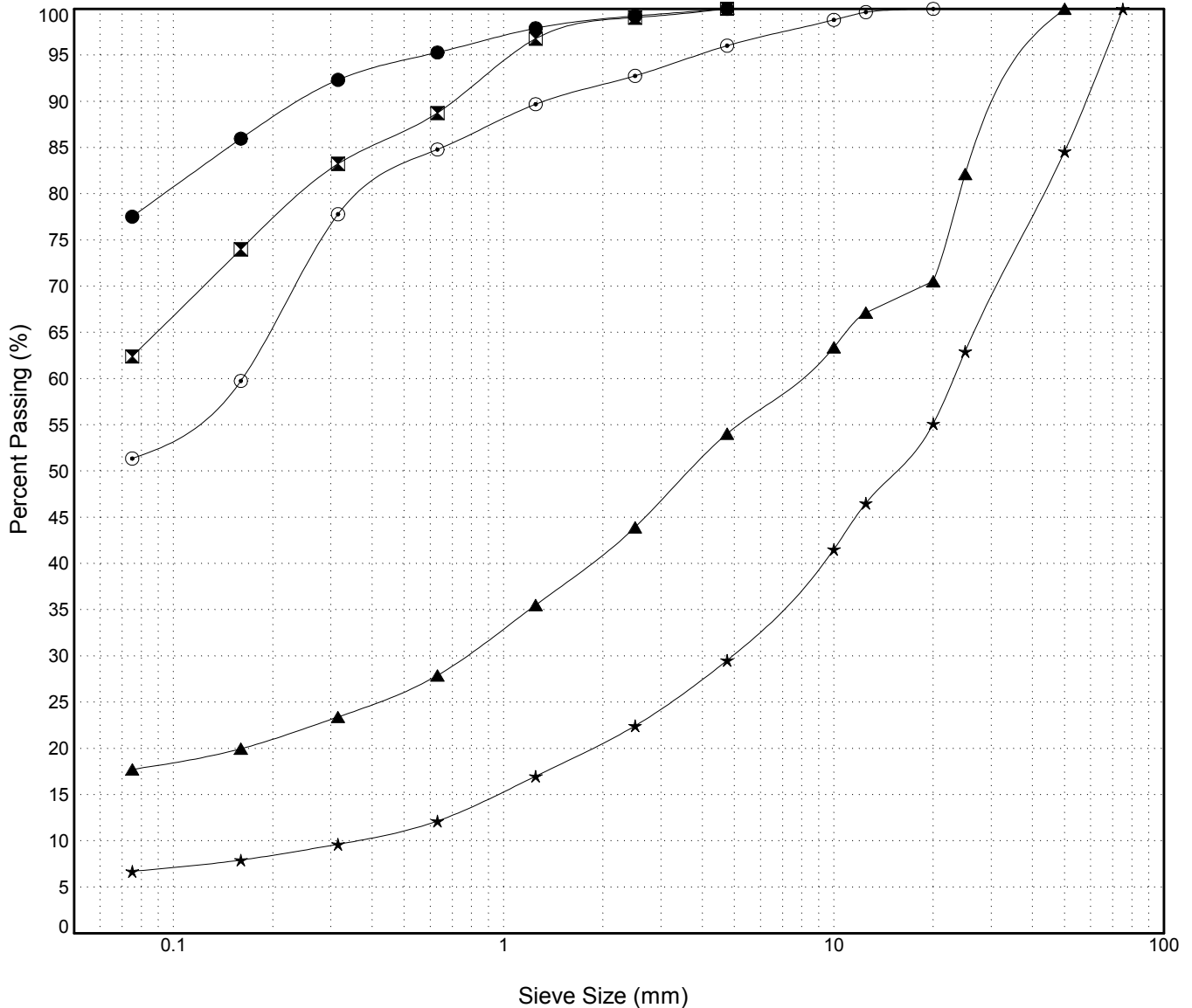
GRAIN SIZE ANALYSIS	Establishment of Baseline Data 2015	SOURCE/TP#: 876-5320
Boart Longyear	km 124 LHS	PROJECT NO: 552-202021-0601 01-1
Sonic Drill	Coordinates:Z7W N7200442m E628786.6m	ELEVATION: 953.4m

Master Revised July 2013

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 01	101	0.9 to 1.1	SILT with SAND(ML)	1070.8	NP	NP	NP		
☒ 02	102	2.2 to 2.3	SANDY SILT(ML)	824.3	NP	NP	NP		
▲ 03	103	3.0 to 3.1	SILTY GRAVEL with SAND(GM)	8.1	NP	NP	NP		
★ 04	104	5.5 to 5.6	WELL-GRADED GRAVEL with SILT and SAND(GW-GM)	3.1	NP	NP	NP	3.0	65.9
⊙ 05	105	6.2 to 6.4	SANDY SILT(ML)	29.2	NP	NP	NP		

Field #	Lab #	%PASSING	Sieve Size (mm)													% Breakdown			
			100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	Gravel	Sand	Silt
● 01	101	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.2	97.9	95.3	92.3	86.0	77.5	0.0	22.5	77.5	
☒ 02	102	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.1	96.8	88.7	83.2	74.0	62.4	0.0	37.6	62.4	
▲ 03	103	100.0	100.0	100.0	82.2	70.5	67.1	63.4	54.0	43.9	35.5	27.9	23.4	20.0	17.7	46.0	36.3	17.7	
★ 04	104	100.0	100.0	84.6	63.0	55.1	46.5	41.5	29.5	22.4	17.0	12.1	9.6	7.9	6.7	70.5	22.8	6.7	
⊙ 05	105	100.0	100.0	100.0	100.0	100.0	99.7	98.8	96.0	92.8	89.7	84.8	77.8	59.8	51.4	4.0	44.7	51.4	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



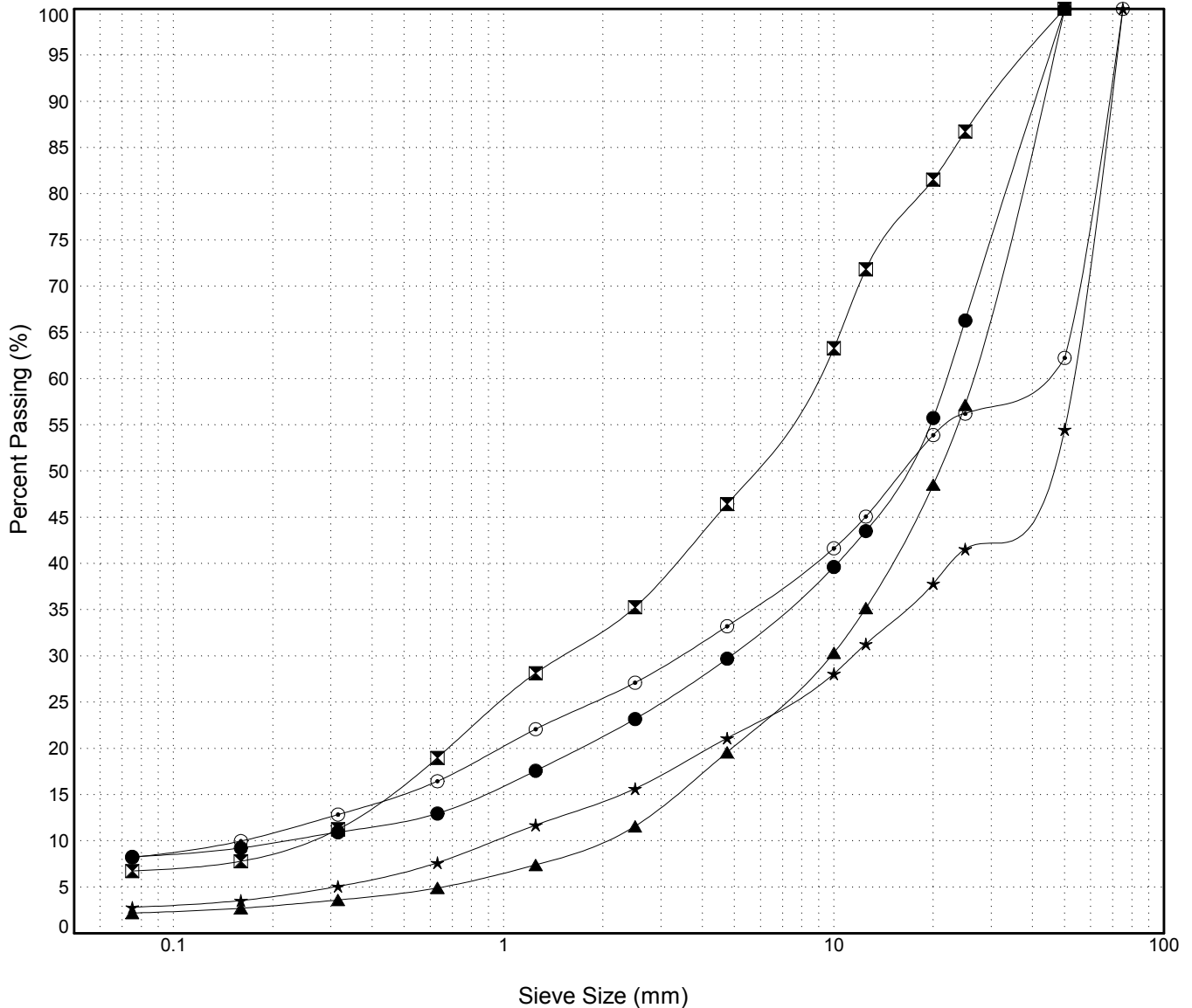
GRAIN SIZE ANALYSIS	Establishment of Baseline Data 2015	SOURCE/TP#: 876-5320
Boart Longyear	km 124 LHS	PROJECT NO: 552-202021-0601 01-1
Sonic Drill	Coordinates:Z7W N7200442m E628786.6m	ELEVATION: 953.4m

Master Revised July 2013

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 06	106	7.2 to 7.3	POORLY GRADED GRAVEL with SILT and SAND(GP-GM)	7.6	NP	NP	NP	5.0	100.6
☒ 07	107	8.4 to 8.6	WELL-GRADED GRAVEL with SILT and SAND(GW-GM)	2.4	NP	NP	NP	1.1	35.0
▲ 08	108	10.0 to 10.2	WELL-GRADED GRAVEL with SAND(GW)	1.3	NP	NP	NP	1.9	13.6
★ 09	109	11.1 to 11.3	WELL-GRADED GRAVEL with SAND(GW)	1.8	NP	NP	NP	2.7	56.0
⊙ 10	110	12.8 to 13.0	WELL-GRADED GRAVEL with SILT and SAND(GW-GM)	4.7	NP	NP	NP	1.8	240.1

Field #	Lab #	% PASSING														% Breakdown			
		100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	Gravel	Sand	Silt	Clay
● 06	106	100.0	100.0	100.0	66.3	55.7	43.5	39.6	29.7	23.2	17.6	13.0	10.9	9.2	8.3	70.3	21.4	8.3	
☒ 07	107	100.0	100.0	100.0	86.7	81.5	71.8	63.3	46.4	35.3	28.1	19.0	11.2	7.8	6.7	53.6	39.7	6.7	
▲ 08	108	100.0	100.0	100.0	57.2	48.5	35.2	30.3	19.6	11.6	7.4	4.9	3.6	2.7	2.2	80.4	17.4	2.2	
★ 09	109	100.0	100.0	54.5	41.6	37.8	31.3	28.1	21.1	15.6	11.7	7.6	5.1	3.5	2.8	78.9	18.3	2.8	
⊙ 10	110	100.0	100.0	62.2	56.2	53.9	45.1	41.6	33.2	27.1	22.1	16.4	12.8	10.0	8.2	66.8	25.0	8.2	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



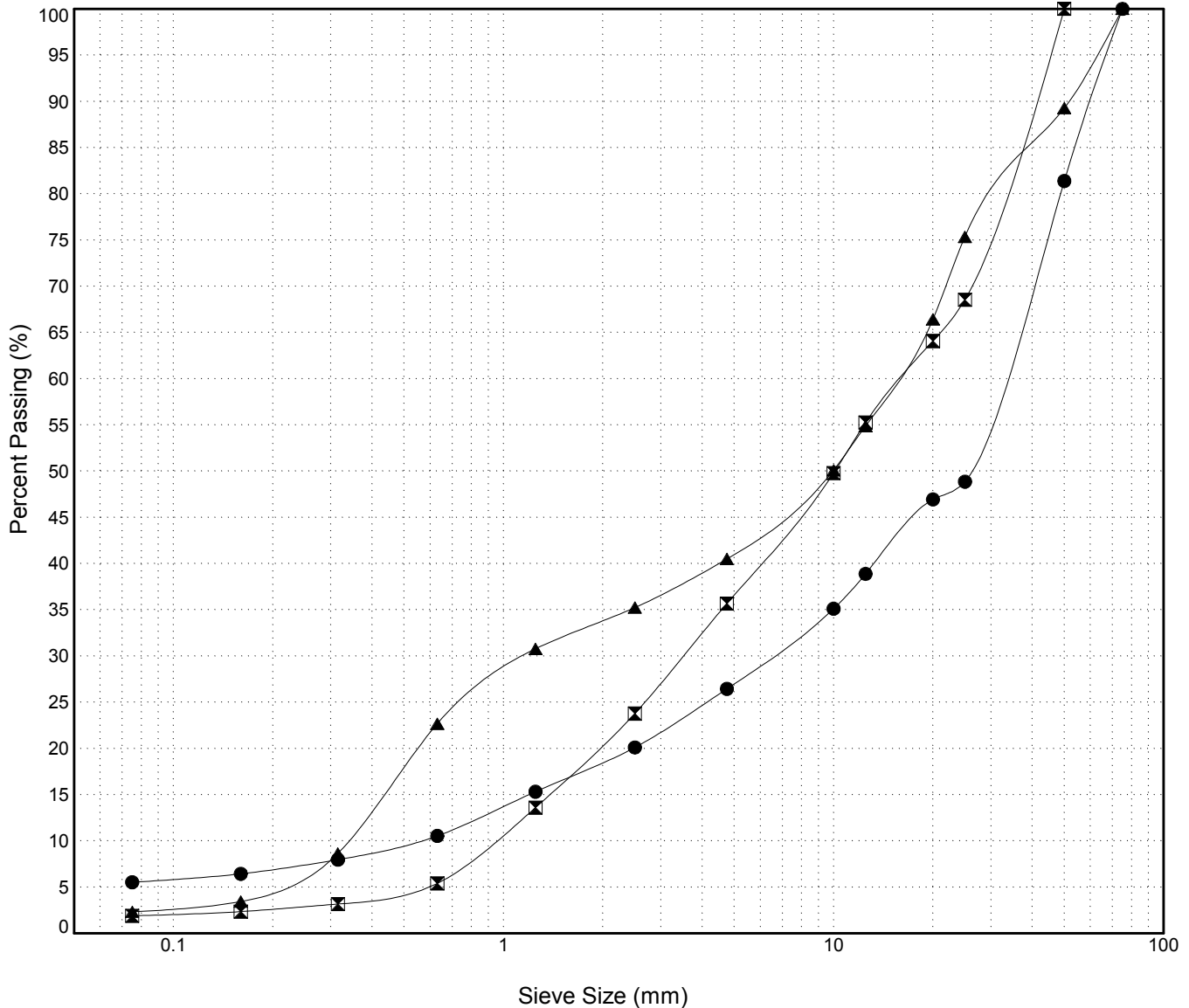
GRAIN SIZE ANALYSIS	Establishment of Baseline Data 2015	SOURCE/TP#: 876-5320
Boart Longyear	km 124 LHS	PROJECT NO: 552-202021-0601 01-1
Sonic Drill	Coordinates:Z7W N7200442m E628786.6m	ELEVATION: 953.4m

Master Revised July 2013

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 11	111	17.4 to 17.6	WELL-GRADED GRAVEL with SILT and SAND(GW-GM)	4.2	NP	NP	NP	2.4	58.1
☒ 12	112	18.1 to 18.3	POORLY GRADED GRAVEL with SAND(GP)	5.6	NP	NP	NP	0.8	17.4
▲ 13	113	18.8 to 19.0	POORLY GRADED GRAVEL with SAND(GP)	8.6	NP	NP	NP	0.3	45.7

Field #	Lab #	% PASSING	Sieve Size (mm)													% Breakdown			
			100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	Gravel	Sand	Silt/Clay
● 11	111	100.0	100.0	100.0	81.4	48.9	46.9	38.9	35.1	26.4	20.1	15.3	10.5	8.0	6.4	5.5	73.6	20.9	5.5
☒ 12	112	100.0	100.0	100.0	68.5	64.1	55.3	49.8	35.7	23.8	13.6	5.4	3.2	2.3	1.9		64.3	33.8	1.9
▲ 13	113	100.0	100.0	89.3	75.3	66.4	54.9	50.1	40.5	35.2	30.8	22.7	8.6	3.4	2.3		59.5	38.2	2.3

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



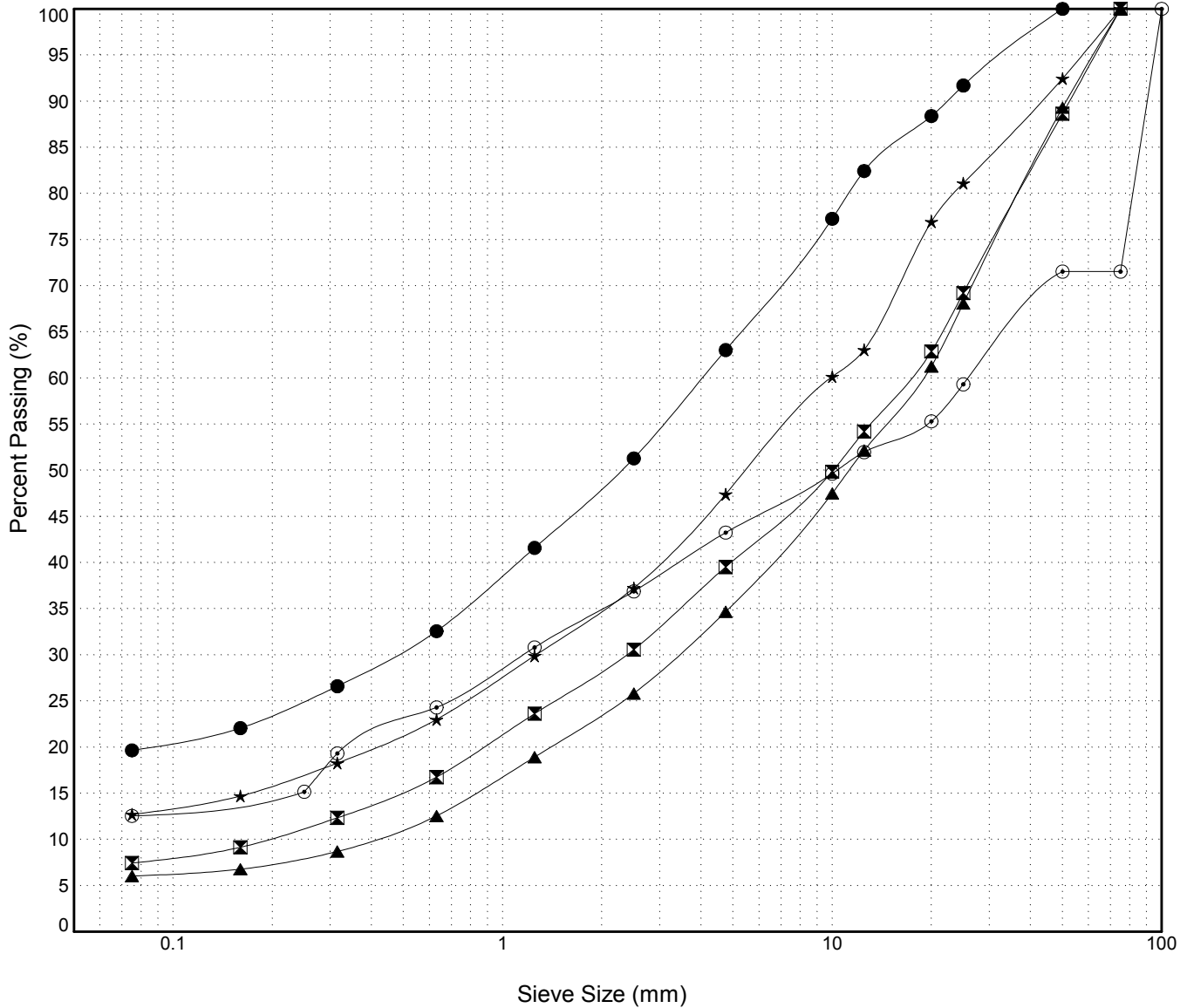
GRAIN SIZE ANALYSIS	Establishment of Baseline Data 2015	SOURCE/TP#: 876-5321
Boart Longyear	km 82 RHS	PROJECT NO: 552-202021-0601 01-1
Sonic Drill	Coordinates:Z7W N7165131m E630347.7m	ELEVATION: 1399.9m

Master Revised July 2013

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 01	114	0.2 to 0.4	SILTY SAND with GRAVEL(SM)	6.6	NP	NP	NP		
☒ 03	116	3.1 to 3.3	WELL-GRADED GRAVEL with SILT and SAND(GW-GM)	5.7	NP	NP	NP	1.7	89.2
▲ 04	117	6.8 to 7.0	WELL-GRADED GRAVEL with SILT and SAND(GW-GM)	5.5	NP	NP	NP	1.5	47.1
★ 05	118	8.8 to 9.0	SILTY GRAVEL with SAND(GM)	11.9	NP	NP	NP		
⊙ 06	119	10.4 to 10.6	SILTY SAND with GRAVEL(SM)	5.2	NP	NP	NP		

Field #	Lab #	%PASSING	Sieve Size (mm)													% Breakdown				
			100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	Gravel	Sand	Silt	Clay
● 01	114	100.0	100.0	100.0	100.0	91.7	88.4	82.4	77.3	63.0	51.3	41.6	32.6	26.6	22.1	19.6	37.0	43.4	19.6	
☒ 03	116	100.0	100.0	88.6	69.2	62.9	54.2	49.9	39.5	30.6	23.6	16.8	12.3	9.1	7.4	60.5	32.1	7.4		
▲ 04	117	100.0	100.0	89.3	68.1	61.3	52.2	47.5	34.7	25.8	18.9	12.5	8.7	6.8	6.0	65.3	28.6	6.0		
★ 05	118	100.0	100.0	92.5	81.1	76.9	63.1	60.1	47.4	37.2	29.9	23.0	18.3	14.7	12.7	52.6	34.7	12.7		
⊙ 06	119	100.0	71.5	71.5	59.3	55.3	52.0	49.6	43.2	36.9	30.8	24.3	19.3	14.2	12.5	28.3	30.7	12.5		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



GRAIN SIZE ANALYSIS	Establishment of Baseline Data 2015	SOURCE/TP#: 876-5321
Boart Longyear	km 82 RHS	PROJECT NO: 552-202021-0601 01-1
Sonic Drill	Coordinates:Z7W N7165131m E630347.7m	ELEVATION: 1399.9m

Master Revised July 2013

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu											
● 07	120	12.0 to 12.2	SILTY GRAVEL with SAND(GM)	6.9	NP	NP	NP													
☒ 08	121	13.5 to 13.7	SILTY SAND with GRAVEL(SM)	10.9	NP	NP	NP													
Field #	Lab #	100.0	80.0	50.0	25.0	20.0	12.5	10.0	5.0	2.5	1.25	0.630	0.315	0.160	0.080	% Breakdown				
● 07	120	100.0	100.0	86.0	80.1	77.5	73.5	70.3	61.1	54.0	48.9	43.4	38.9	34.1	31.3	Gravel	Sand	Silt	Clay	
☒ 08	121	100.0	100.0	100.0	87.6	85.3	82.7	80.8	74.8	68.3	62.3	54.4	46.9	38.7	34.7	25.2	40.1	31.3	34.7	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse

