

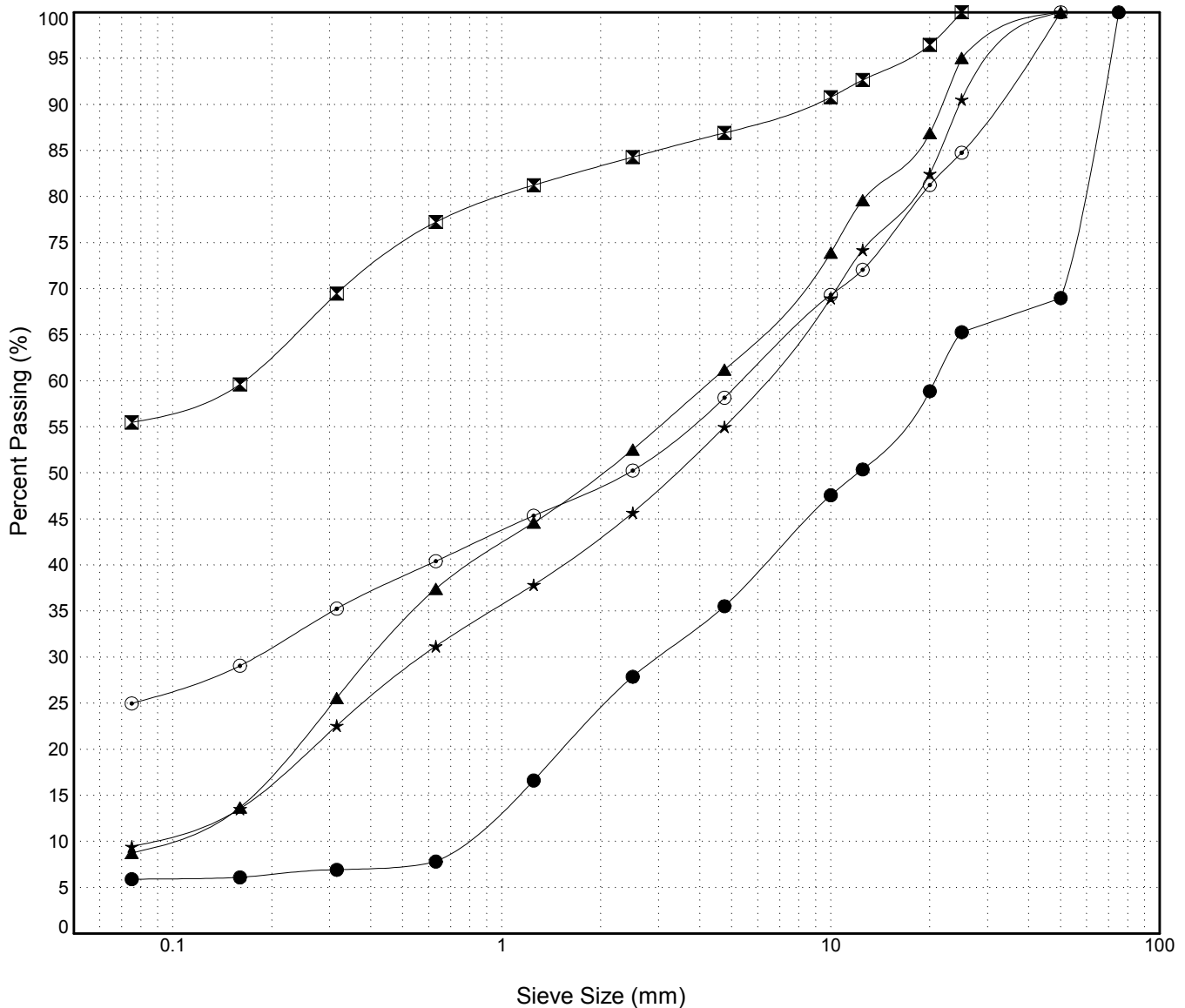
GRAIN SIZE ANALYSIS	Haines Jct Maint Trouble Spots	SOURCE/TP#: 867-5313
Boart Longyear	km 1561 LHS	PROJECT NO:
Sonic Drill	Coordinates:Z08V N6746536.15592224m E372671.137	ELEVATION: 670m

Master Revised July 2013

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 71	474	0.8 to 1.0	POORLY GRADED GRAVEL with SILT and SAND(GP-GM)	2.3	NP	NP	NP	0.6	27.8
☒ 72	475	2.0 to 2.2	SANDY SILT(ML)	12.9	NP	NP	NP		
▲ 73	476	2.8 to 3.0	POORLY GRADED SAND with SILT and GRAVEL(SP-SM)	3.5	NP	NP	NP	0.4	47.8
★ 74	477	4.2 to 4.4	POORLY GRADED SAND with SILT and GRAVEL(SP-SM)	4.6	NP	NP	NP	0.6	74.6
⊙ 75	478	5.7 to 5.9	SILTY GRAVEL with SAND(GM)	6.3	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
● 71	474	100.0	100.0	69.0	65.3	58.9	50.4	47.6	35.5	27.9	16.6	7.8	6.9	6.1	5.9	64.5	29.6	5.9	
☒ 72	475	100.0	100.0	100.0	100.0	96.5	92.7	90.8	86.9	84.3	81.2	77.2	69.5	59.6	55.5	13.1	31.4	55.5	
▲ 73	476	100.0	100.0	100.0	95.0	86.9	79.6	73.9	61.2	52.5	44.6	37.4	25.6	13.7	8.8	38.8	52.5	8.8	
★ 74	477	100.0	100.0	100.0	90.5	82.5	74.2	69.0	55.0	45.7	37.9	31.2	22.6	13.5	9.4	45.0	45.6	9.4	
⊙ 75	478	100.0	100.0	100.0	84.8	81.3	72.1	69.3	58.2	50.3	45.4	40.4	35.3	29.1	25.0	41.8	33.2	25.0	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



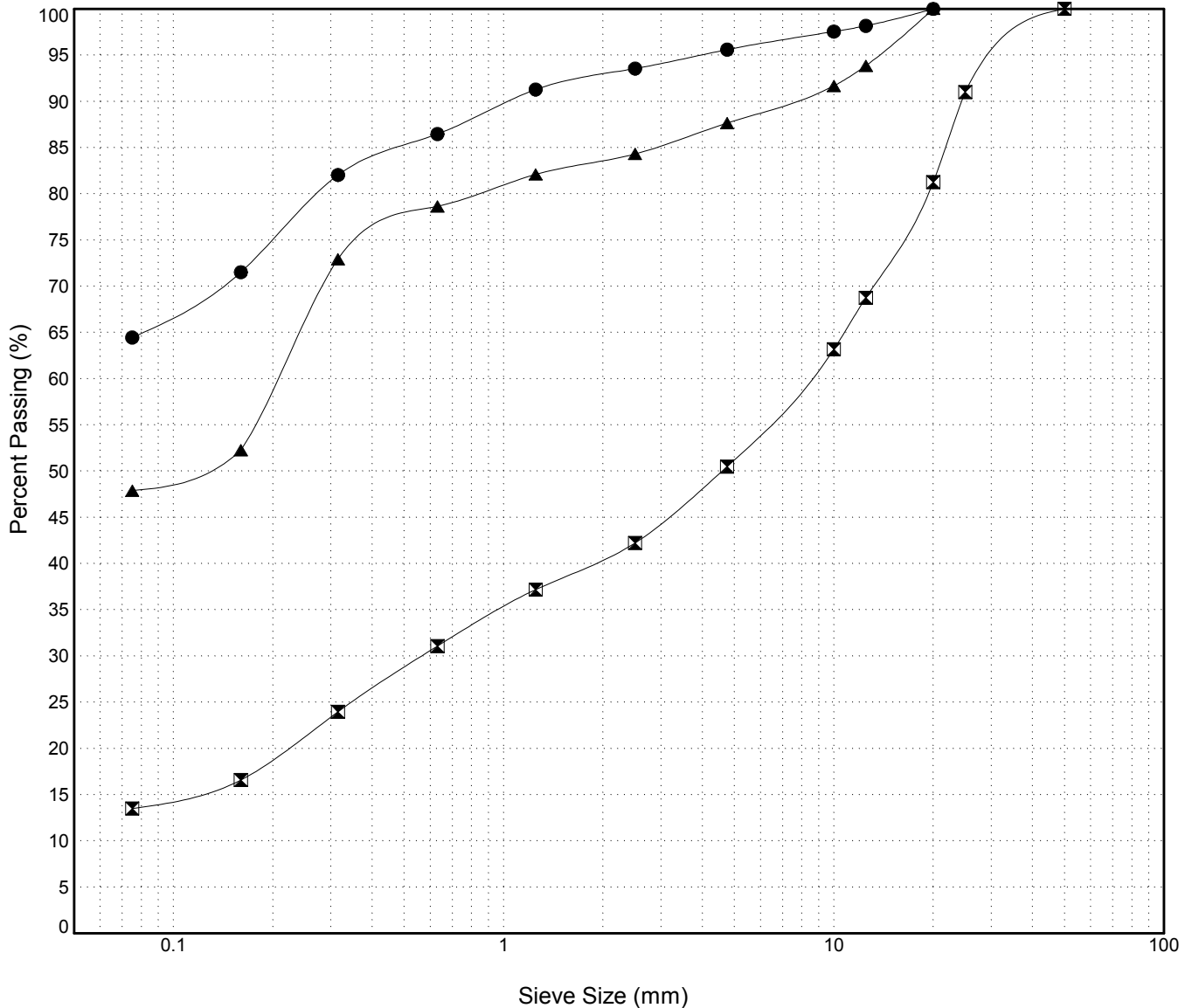
GRAIN SIZE ANALYSIS	Haines Jct Maint Trouble Spots	SOURCE/TP#: 867-5313
Boart Longyear	km 1561 LHS	PROJECT NO:
Sonic Drill	Coordinates:Z08V N6746536.15592224m E372671.137	ELEVATION: 670m

Master Revised July 2013

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 77	480	8.1 to 8.3	SANDY SILT (ML)	18.8	NP	NP	NP		
☒ 78	481	9.8 to 10.0	SILTY GRAVEL with SAND (GM)	7.5	NP	NP	NP		
▲ 79	482	11.2 to 11.4	SILTY SAND (SM)	9.9	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
● 77	480	100.0	100.0	100.0	100.0	100.0	98.2	97.5	95.6	93.5	91.3	86.5	82.0	71.5	64.4	4.4	31.1	64.4	
☒ 78	481	100.0	100.0	100.0	91.0	81.3	68.8	63.2	50.5	42.2	37.2	31.1	24.0	16.6	13.5	49.5	37.0	13.5	
▲ 79	482	100.0	100.0	100.0	100.0	100.0	93.9	91.7	87.6	84.3	82.1	78.6	72.9	52.3	47.9	12.4	39.8	47.9	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



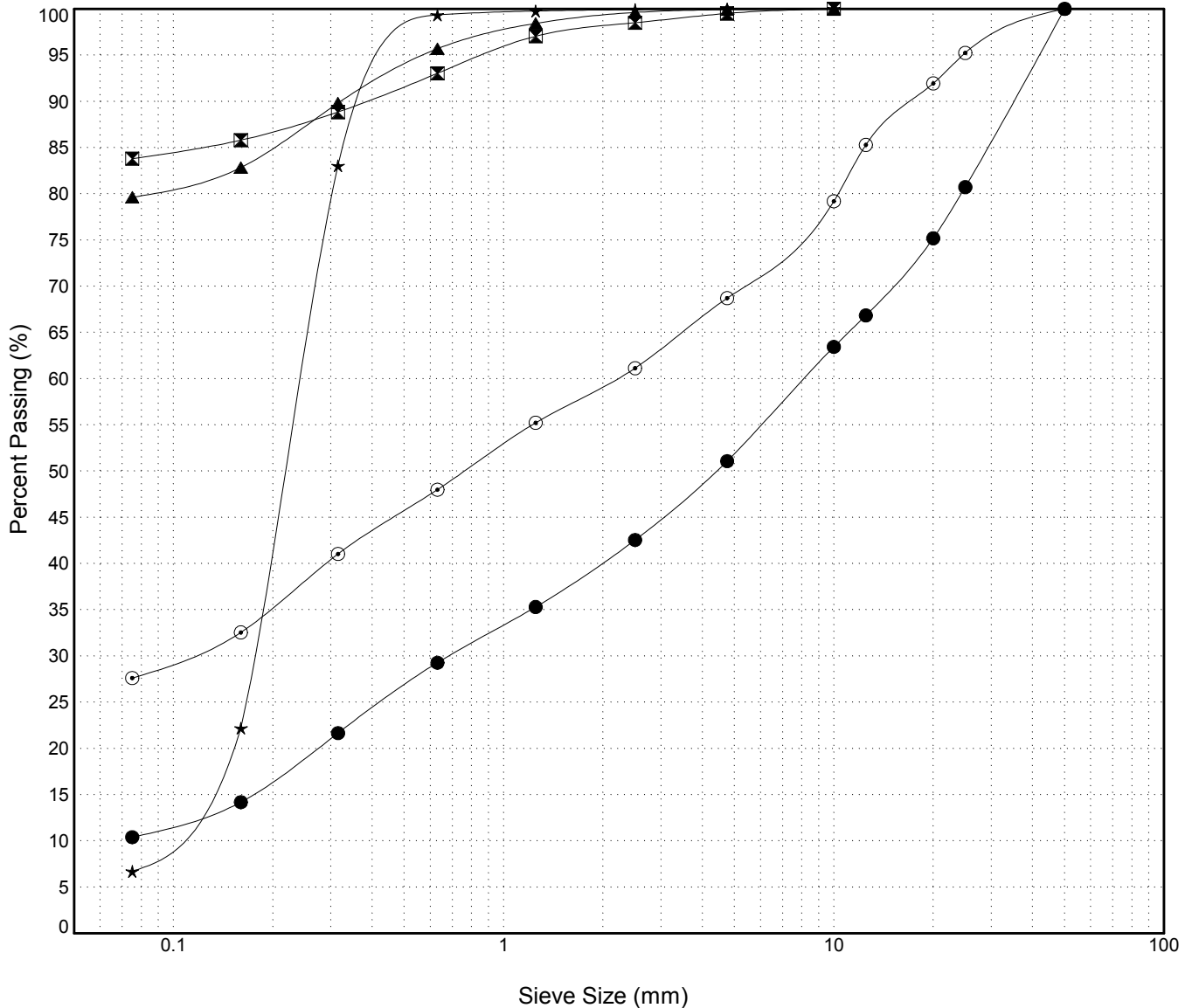
GRAIN SIZE ANALYSIS	Haines Jct Maint Trouble Spots	SOURCE/TP#: 867-5314
Boart Longyear	km 1561.2 LHS	PROJECT NO:
Sonic Drill	Coordinates:Z08V N6746710.44640015m E373499.290	ELEVATION: 671m

Master Revised July 2013

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 80	483	0.8 to 1.0	POORLY GRADED GRAVEL with SILT and SAND(GP-GM)	2.8	NP	NP	NP	0.8	117.4
☒ 81	484	2.5 to 2.7	SILT with SAND(ML)	23.8	NP	NP	NP		
▲ 82	485	3.2 to 3.4	SILT with SAND(ML)	33.0	NP	NP	NP		
★ 83	486	5.6 to 5.8	POORLY GRADED SAND with SILT(SP-SM)	3.1	NP	NP	NP	1.4	2.8
⊙ 84	487	6.5 to 6.7	SILTY SAND with GRAVEL(SM)	6.5	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	
● 80	483	100.0	100.0	100.0	80.7	75.2	66.8	63.4	51.1	42.5	35.3	29.3	21.7	14.2	10.4	48.9	40.7	10.4		
☒ 81	484	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.5	98.5	97.0	93.0	88.8	85.8	83.8	0.5	15.7	83.8		
▲ 82	485	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.6	98.4	95.7	89.8	82.8	79.6	0.1	20.3	79.6		
★ 83	486	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.8	99.3	83.0	22.2	6.7	0.0	93.3	6.7		
⊙ 84	487	100.0	100.0	100.0	95.2	91.9	85.3	79.2	68.7	61.1	55.2	48.0	41.0	32.5	27.6	31.3	41.1	27.6		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse

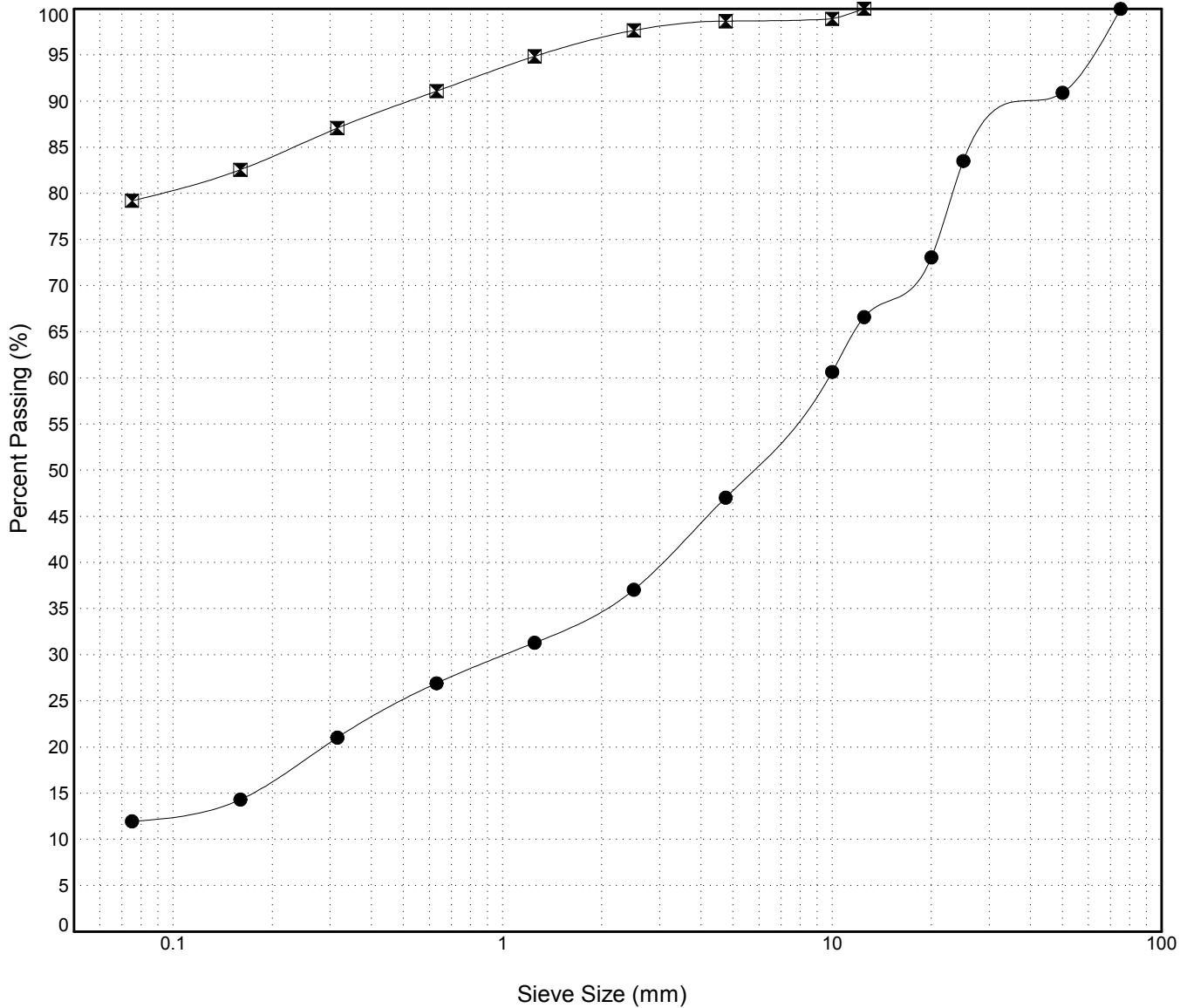


GRAIN SIZE ANALYSIS	Haines Jct Maint Trouble Spots	SOURCE/TP#: 867-5314
Boart Longyear	km 1561.2 LHS	PROJECT NO:
Sonic Drill	Coordinates:Z08V N6746710.44640015m E373499.290	ELEVATION: 671m

Master Revised July 2013

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu											
● 85	488	8.0 to 8.2	WELL-GRADED GRAVEL with SILT and SAND(GW-GM)	1.5	NP	NP	NP	2.7	240.9											
☒ 86	489	8.9 to 9.1	SILT with SAND(ML)	13.5	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				
● 85	488	100.0	100.0	90.9	83.5	73.1	66.6	60.7	47.0	37.1	31.3	26.9	21.0	14.3	12.0	Gravel	Sand	Silt	Clay	
☒ 86	489	100.0	100.0	100.0	100.0	100.0	100.0	98.9	98.7	97.7	94.9	91.1	87.1	82.6	79.2	1.3	19.5	79.2		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



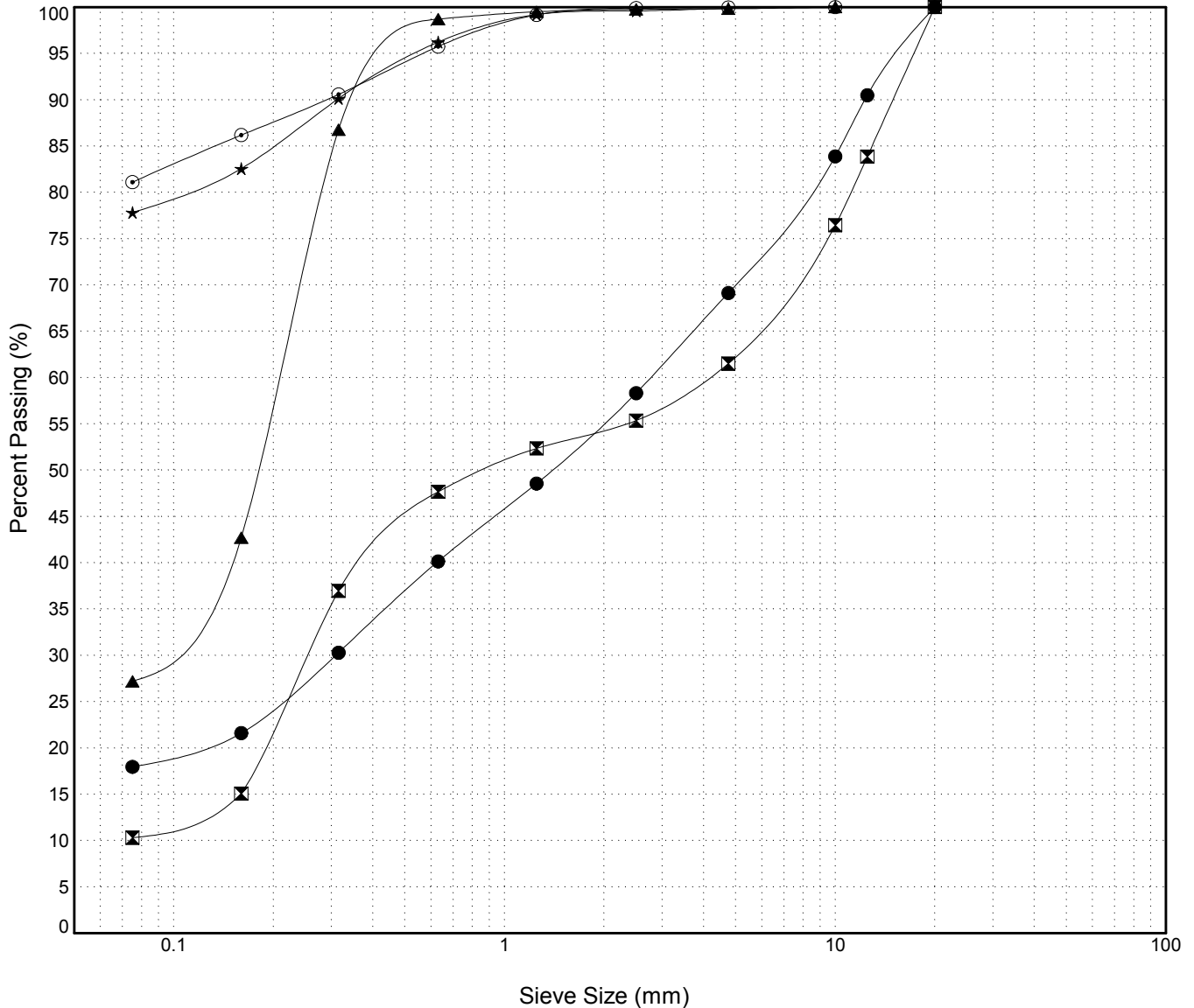
GRAIN SIZE ANALYSIS	Haines Jct Maint Trouble Spots	SOURCE/TP#: 867-5315
Boart Longyear	km 1512 RHS	PROJECT NO:
Sonic Drill	Coordinates:Z08V N6742859m E411838m	ELEVATION: 730m

Master Revised July 2013

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 87	490	0.6 to 0.8	SILTY SAND with GRAVEL(SM)	2.7	NP	NP	NP		
☒ 88	491	2.2 to 2.4	POORLY GRADED SAND with SILT and GRAVEL(SP-SM)	3.2	NP	NP	NP	0.2	56.9
▲ 89	492	2.8 to 3.0	SILTY SAND(SM)	8.3	NP	NP	NP		
★ 90	493	4.2 to 4.4	ORGANIC SILT with SAND(OL)	17.8	NP	NP	NP		
⊙ 91	494	5.4 to 5.6	SILT with SAND(ML)	23.2	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
● 87	490	100.0	100.0	100.0	100.0	100.0	90.5	83.9	69.1	58.3	48.6	40.1	30.3	21.6	18.0	30.9	51.2	18.0	
☒ 88	491	100.0	100.0	100.0	100.0	100.0	83.9	76.4	61.5	55.4	52.3	47.7	37.0	15.1	10.3	38.5	51.2	10.3	
▲ 89	492	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.8	99.8	99.5	98.7	86.8	42.7	27.2	0.2	72.6	27.2	
★ 90	493	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.6	99.2	96.2	90.1	82.6	77.8	0.1	22.0	77.8	
⊙ 91	494	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.2	95.7	90.6	86.2	81.1	0.0	18.9	81.1	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



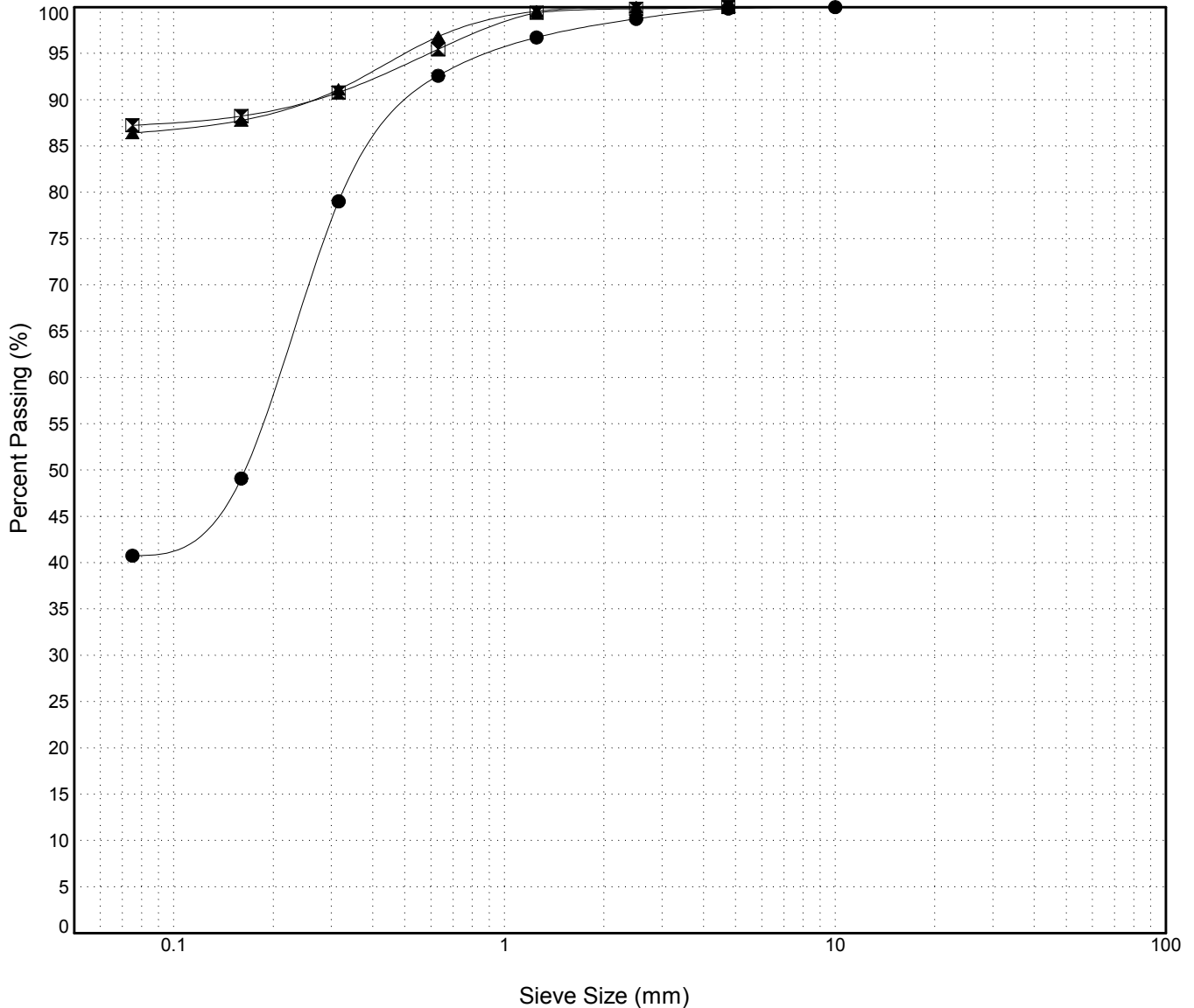
GRAIN SIZE ANALYSIS	Haines Jct Maint Trouble Spots	SOURCE/TP#: 867-5315
Boart Longyear	km 1512 RHS	PROJECT NO:
Sonic Drill	Coordinates:Z08V N6742859m E411838m	ELEVATION: 730m

Master Revised July 2013

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 92	495	6.5 to 6.7	SILTY SAND(SM)	10.4	NP	NP	NP		
☒ 93	496	7.4 to 7.6	ORGANIC SILT(OL)	34.8	NP	NP	NP		
▲ 94	497	8.6 to 8.8	SILT(ML)	43.6	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
● 92	495	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	98.7	96.7	92.6	79.0	49.1	40.8	0.1	59.1	40.8	
☒ 93	496	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.8	99.4	95.4	90.8	88.2	87.2	0.0	12.8	87.2		
▲ 94	497	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.6	96.8	91.1	87.8	86.4	0.0	13.6	86.4			

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse

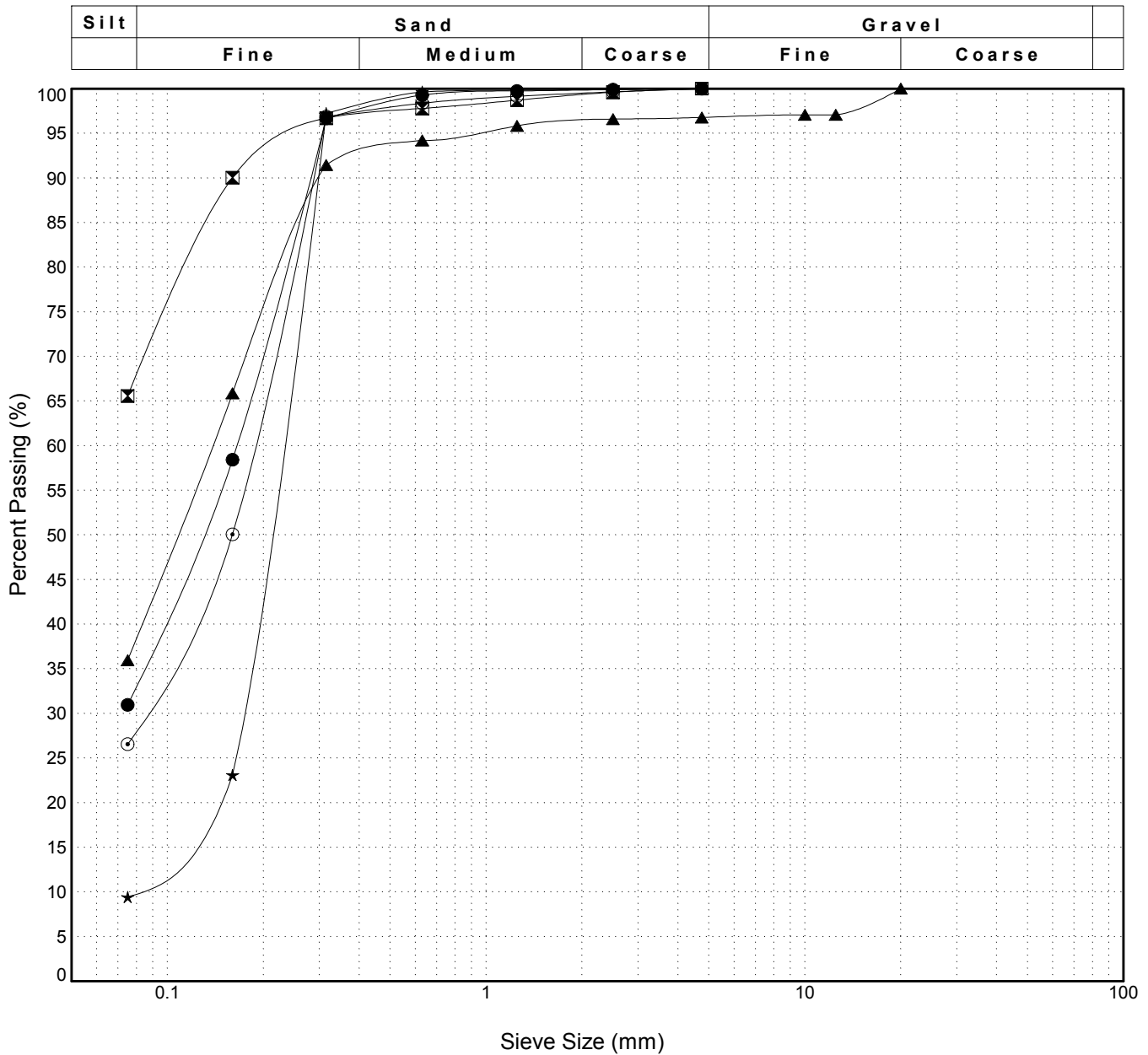


GRAIN SIZE ANALYSIS	Haines Jct Maint Trouble Spots	SOURCE/TP#: 867-5316
Boart Longyear	km 1522 RHS	PROJECT NO:
Sonic Drill	Coordinates: Z 08V N6742556.53971712m E421946.767	ELEVATION: 740m

Master Revised July 2013

Field #	Lab #	Depth	Classification	%H ₂ O	LL	PL	PI	C _c	C _u
● 95	498	0.8 to 1.2	SILTY SAND(SM)	5.6	NP	NP	NP		
☒ 96	499	2.2 to 2.4	SANDY SILT(ML)	11.8	NP	NP	NP		
▲ 97	500	2.8 to 3.0	SILTY SAND(SM)	1.8	NP	NP	NP		
★ 98	501	3.4 to 3.6	POORLY GRADED SAND with SILT(SP-SM)	5.6	NP	NP	NP	1.7	2.9
⊙ 99	502	4.4 to 4.6	SILTY SAND(SM)	5.2	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
● 95	498	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.8	99.3	96.7	58.4	31.0	0.0	69.0	31.0	
☒ 96	499	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.6	98.7	97.8	96.7	90.0	65.6	0.0	34.4	65.6	
▲ 97	500	100.0	100.0	100.0	100.0	100.0	97.1	97.1	96.8	96.6	95.8	94.2	91.4	65.9	36.0	3.2	60.8	36.0	
★ 98	501	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.8	99.7	97.2	23.1	9.4	0.0	90.6	9.4	
⊙ 99	502	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.6	99.2	98.4	96.9	50.1	26.6	0.0	73.4	26.6	

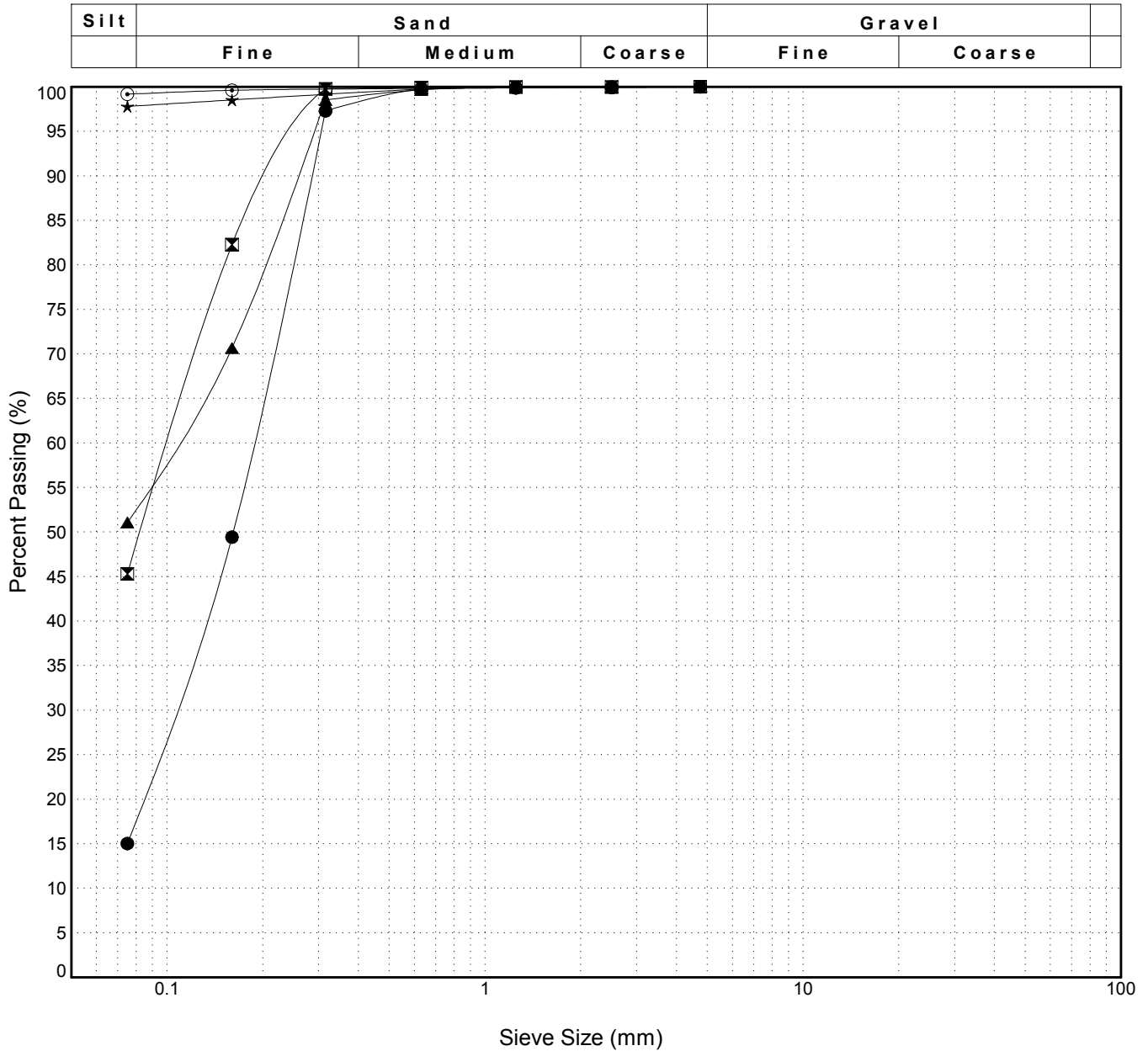


GRAIN SIZE ANALYSIS	Haines Jct Maint Trouble Spots	SOURCE/TP#: 867-5316
Boart Longyear	km 1522 RHS	PROJECT NO:
Sonic Drill	Coordinates:Z 08V N6742556.53971712m E421946.767	ELEVATION: 740m

Master Revised July 2013

Field #	Lab #	Depth	Classification	%H ₂ O	LL	PL	PI	C _c	C _u
● 100	503	5.4 to 5.6	SILTY SAND(SM)	3.2	NP	NP	NP		
☒ 101	504	6.8 to 7.0	SILTY SAND(SM)	4.4	NP	NP	NP		
▲ 101B	505	8.5 to 8.8	SANDY SILT(ML)	3.1	NP	NP	NP		
★ 102	506	9.2 to 9.4	SILT(ML)	24.0	NP	NP	NP		
⊙ 103	507	10.2 to 10.4	SILT(ML)	6.2	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
● 100	503	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.8	97.3	49.4	15.0	0.0	85.0	15.0	
☒ 101	504	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.8	82.3	45.3	0.0	54.7	45.3		
▲ 101B	505	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.7	98.5	70.7	51.1	0.0	48.9	51.1		
★ 102	506	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.7	99.2	98.5	97.8	0.0	2.2	97.8		
⊙ 103	507	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.9	99.8	99.7	99.6	99.2	0.0	0.8	99.2		

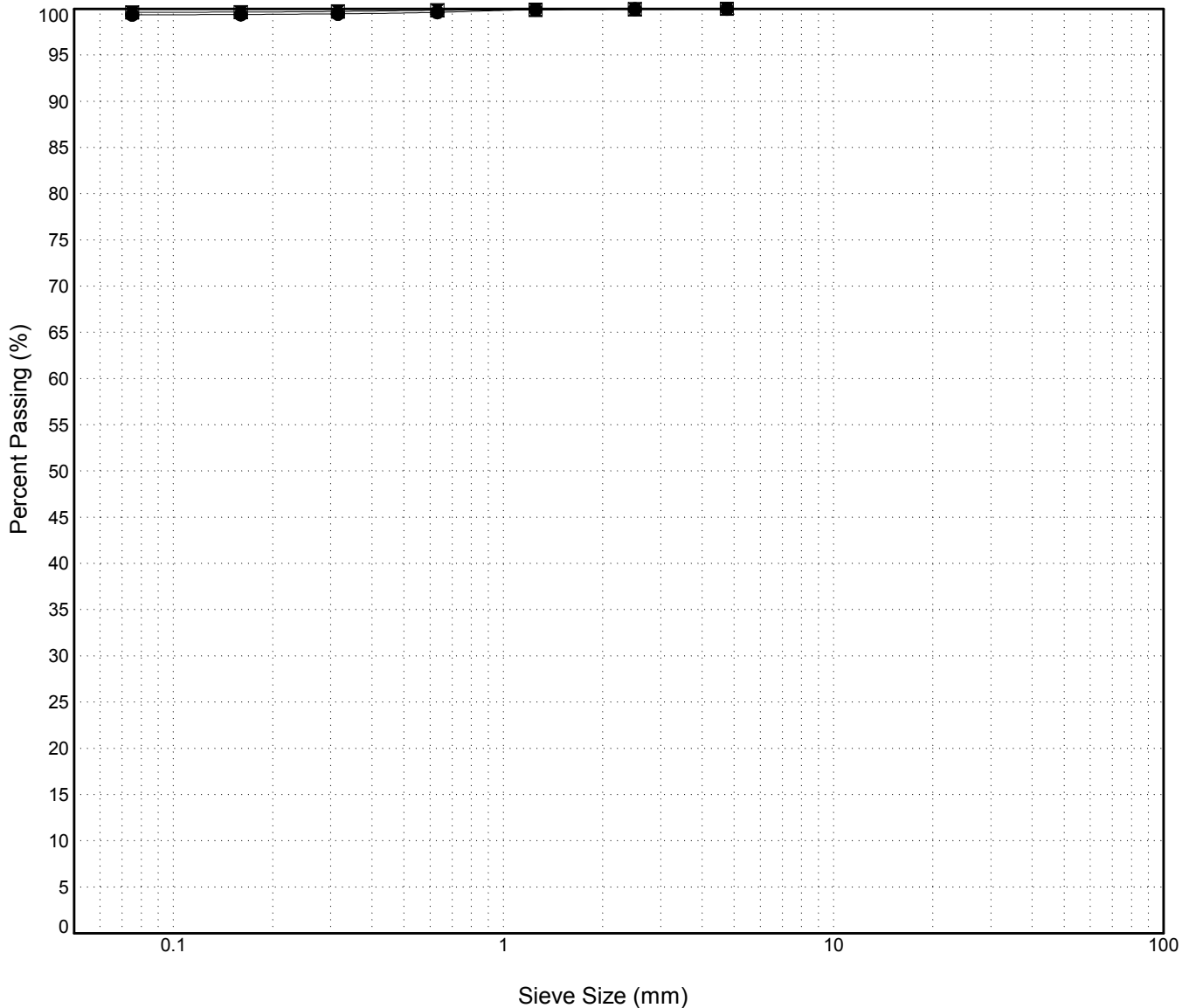


GRAIN SIZE ANALYSIS	Haines Jct Maint Trouble Spots	SOURCE/TP#: 867-5316
Boart Longyear	km 1522 RHS	PROJECT NO:
Sonic Drill	Coordinates:Z 08V N6742556.53971712m E421946.767	ELEVATION: 740m

Master Revised July 2013

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu											
● 104	508	11.0 to 11.2	SILT(ML)	26.4	NP	NP	NP													
☒ 105	509	12.4 to 12.6	SILT(ML)	26.2	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				
● 104	508	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.6	99.5	99.4	99.4	Gravel	Sand	Silt	Clay	
☒ 105	509	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.8	99.7	99.7	99.6	0.0	0.6	99.4		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse





BH-865-5013 Photo 1



BH-865-5013 Photo 2



BH-865-5013 Photo 3



BH-865-5013 Photo 4



BH-865-5013 Photo 5



BH-865-5013 Photo 6



BH-865-5013 Photo 7



BH-865-5013 Photo 8



BH-865-5013 Photo 9



BH-865-5013 Photo 10



BH-865-5013 Photo 11



BH-865-5013 Photo 12



BH-865-5013 Photo 13



BH-865-5013 Photo 14



BH-865-5013 Photo 15



BH-865-5013 Photo 16



BH-865-5013 Photo 17



BH-865-5013 Photo 18



Marshal Creek Site Photo 1



Marshal Creek Site Photo 2



Marshal Creek Site Photo 3



BH-865-5014 Photo 1



BH-865-5014 Photo 2



BH-865-5014 Photo 3



BH-865-5014 Photo 4



BH-865-5014 Photo 5



BH-865-5014 Photo 6



BH-865-5014 Photo 7



BH-865-5014 Photo 8



BH-865-5014 Photo 9



BH-865-5014 Photo 10



BH-865-5014 Photo 11



BH-865-5014 Photo 12



BH-865-5014 Photo 13



BH-865-5015 Photo 1



BH-865-5015 Photo 2



BH-865-5015 Photo 3



BH-865-5015 Photo 4



BH-865-5015 Photo 5



BH-865-5015 Photo 6



BH-865-5015 Photo 7



BH-865-5015 Photo 8



BH-865-5015 Photo 9



BH-865-5015 Photo 10



BH-865-5015 Photo 11



BH-865-5015 Photo 12



BH-865-5015 Photo 13



BH-865-5015 Photo 14



BH-865-5015 Photo 15



BH-865-5015 Photo 16



BH-865-5015 Photo 17



BH-865-5015 Photo 18



BH-865-5015 Photo 19



BH-865-5016 Photo 1



BH-865-5016 Photo 2



BH-865-5016 Photo 3



BH-865-5016 Photo 4



BH-865-5016 Photo 5



BH-865-5016 Photo 6



BH-865-5016 Photo 7



BH-865-5016 Photo 8



BH-865-5016 Photo 9



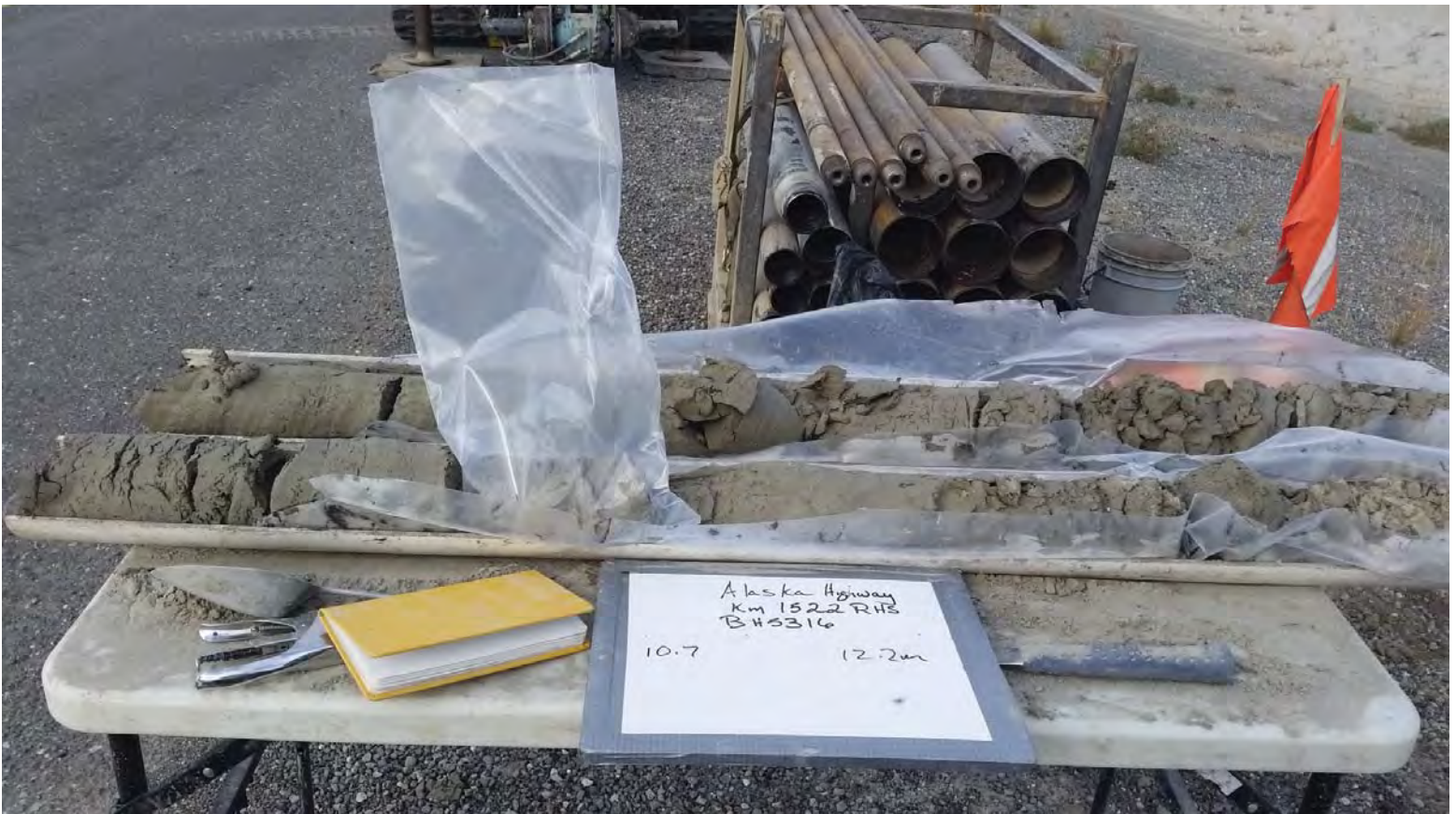
BH-865-5016 Photo 10



BH-865-5016 Photo 11



BH-865-5016 Photo 12



BH-865-5016 Photo 13



BH-865-5016 Photo 14