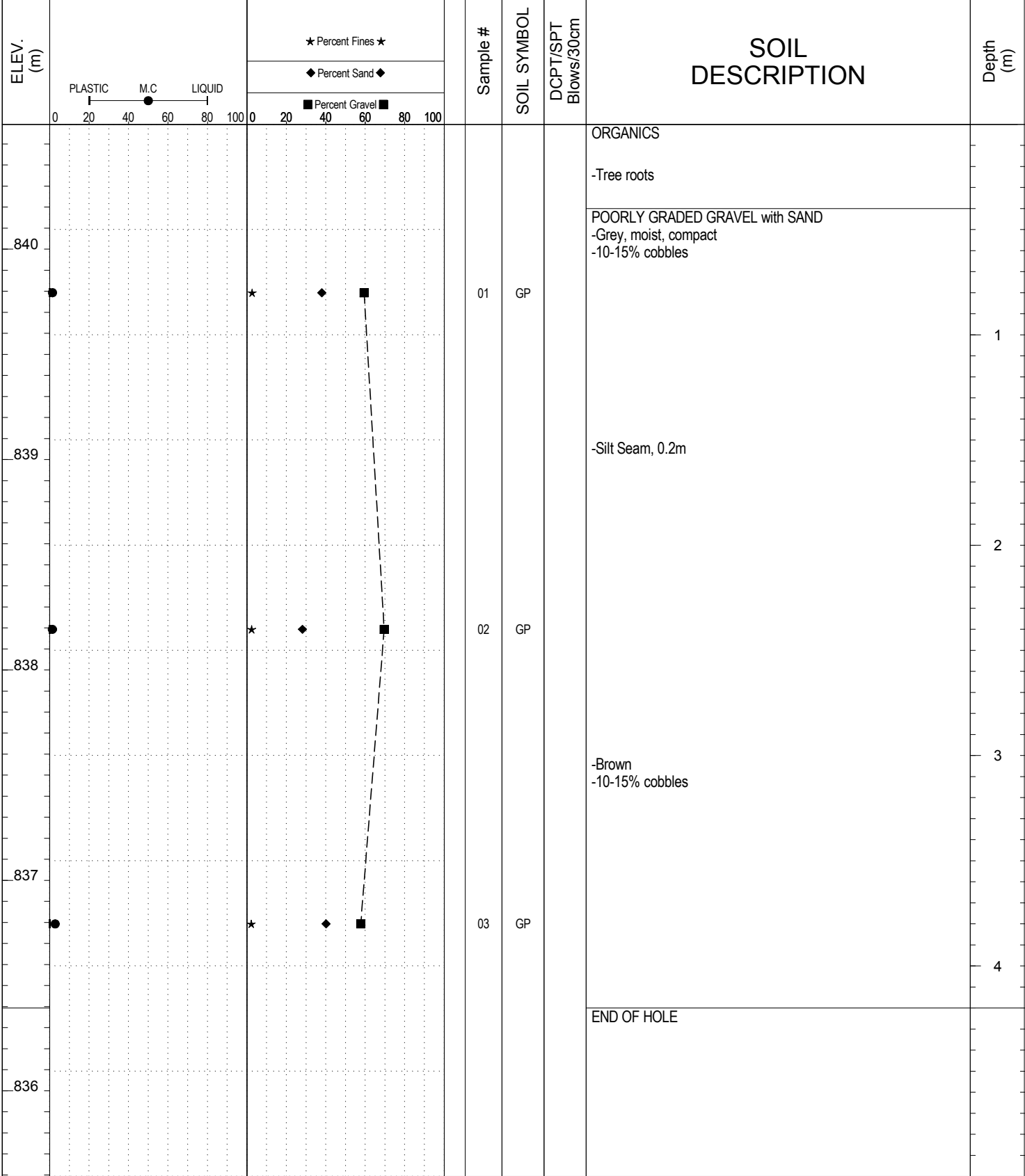


SUBSURFACE EXPLORATION AND TEST REPORT		1	SOURCE/TP#: 836-4822
Chuck's Exploration		Lewis Creek, 1691.0 LHS	PROJECT NO: 552-202101-1001-1-1
CAT Excavator E120B		Coordinates: Z07V N6797463m E613288.5m	ELEVATION: 840.593201m

SAMPLE TYPE     UNDISTURBED     DCPT     AUGER     BULK     SPT     CORE



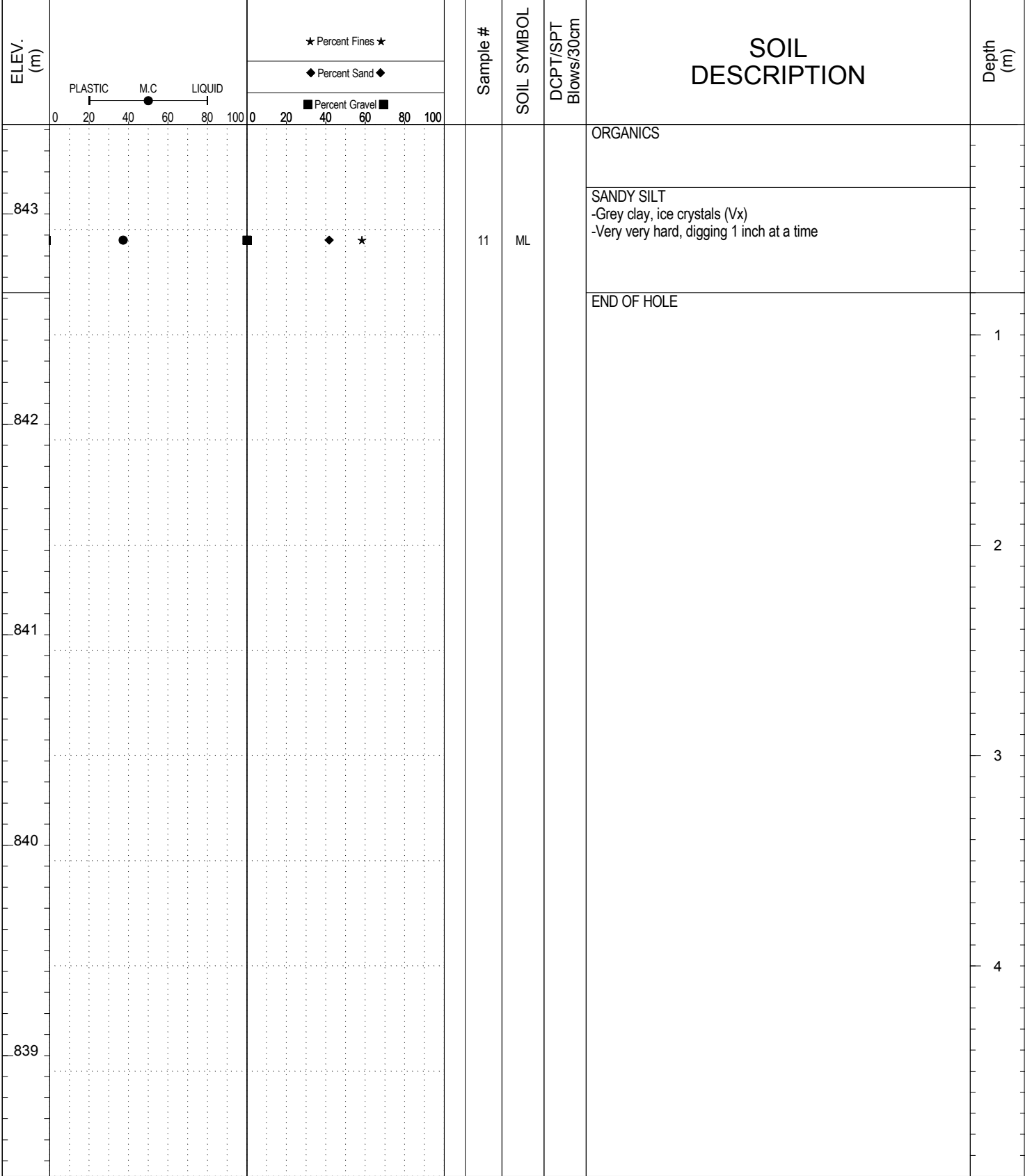
SUBSURFACE EXPLORATION AND TEST REPORT		1		SOURCE/TP#: 836-4823									
Chuck's Exploration		Lewis Creek, 1691.0 LHS		PROJECT NO: 552-202101-1001-1-1									
CAT Excavator E120B		Coordinates: Z07V N6797418m E613202.7m		ELEVATION: 844.13916m									
SAMPLE TYPE		UNDISTURBED		DCPT		AUGER		BULK		SPT		CORE	
ELEV. (m)	★ Percent Fines ★ ◆ Percent Sand ◆ ■ Percent Gravel ■		Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION		Depth (m)					
	PLASTIC      M.C      LIQUID 0      20      40      60      80      100												
844						ORGANICS							
						SILT -Dark grey, moist							
843				04	SM	SILTY SAND with GRAVEL -Moist, hard		1					
						POORLY GRADED GRAVEL with SAND -Brown, moist, compact -10-15% cobbles		2					
842				05	GP								
						-Dark grey		3					
841				06	GP								
								4					
840						END OF HOLE							

SUBSURFACE EXPLORATION AND TEST REPORT		1		SOURCE/TP#: 836-4824			
Chuck's Exploration		Lewis Creek, 1691.0 LHS		PROJECT NO: 552-202101-1001-1-1			
CAT Excavator E120B		Coordinates: Z07V N6797511m E613126.3m		ELEVATION: 841.15863m			
SAMPLE TYPE		<input type="checkbox"/> UNDISTURBED <input checked="" type="checkbox"/> DCPT <input 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		Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	★ Percent Fines ★ ◆ Percent Sand ◆ ■ Percent Gravel ■						
841						ORGANICS	
						WELL-GRADED GRAVEL with SAND -Dark grey, moist, compact -5% cobbles	1
840			07	GW			
						WELL-GRADED GRAVEL with SILT and SAND -Dark grey, moist, compact Lots of cobbles	2
839			08	GW-GM			
						-Clay seam, 0.2m	
						WELL-GRADED GRAVEL with SAND -Dark grey, damp, compact -10% cobbles	3
838			09	GW			
						END OF HOLE	4
837							
				LOGGED BY: G. Kennedy		Termination Depth: 4m	
				COMPILED BY: M. Jubinville		Complete: 10/8/2015	
				REVIEWED BY: R.Stiwell		Pit #: 115-G-04A      Page 1 of 1	

SUBSURFACE EXPLORATION AND TEST REPORT		1		SOURCE/TP#: 836-4825			
Chuck's Exploration		Lewis Creek, 1691.0 LHS		PROJECT NO: 552-202101-1001-1-1			
CAT Excavator E120B		Coordinates: Z07V N6797581m E613053.2m		ELEVATION: 842.884094m			
SAMPLE TYPE		<input type="checkbox"/> UNDISTURBED		<input type="checkbox"/> DCPT			
		<input type="checkbox"/> AUGER		<input type="checkbox"/> BULK			
		<input checked="" type="checkbox"/> SPT		<input type="checkbox"/> CORE			
ELEV. (m)	★ Percent Fines ★ ◆ Percent Sand ◆ ■ Percent Gravel ■		Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	PLASTIC      M.C      LIQUID 0      20      40      60      80      100      0      20      40      60      80      100						
842	>> ● ■ ★ ◆		10	SM		-ORGANICS/FROZEN CLAY	
841						SILTY SAND -Black -Hard digging, abandoned hole	1
840						END OF HOLE	2
839							3
838							4
				LOGGED BY: G. Kennedy		Termination Depth: 1m	
				COMPILED BY: M. Jubinville		Complete: 10/8/2015	
				REVIEWED BY: R.Stiwell		Pit #: 115-G-04A	
						Page 1 of 1	

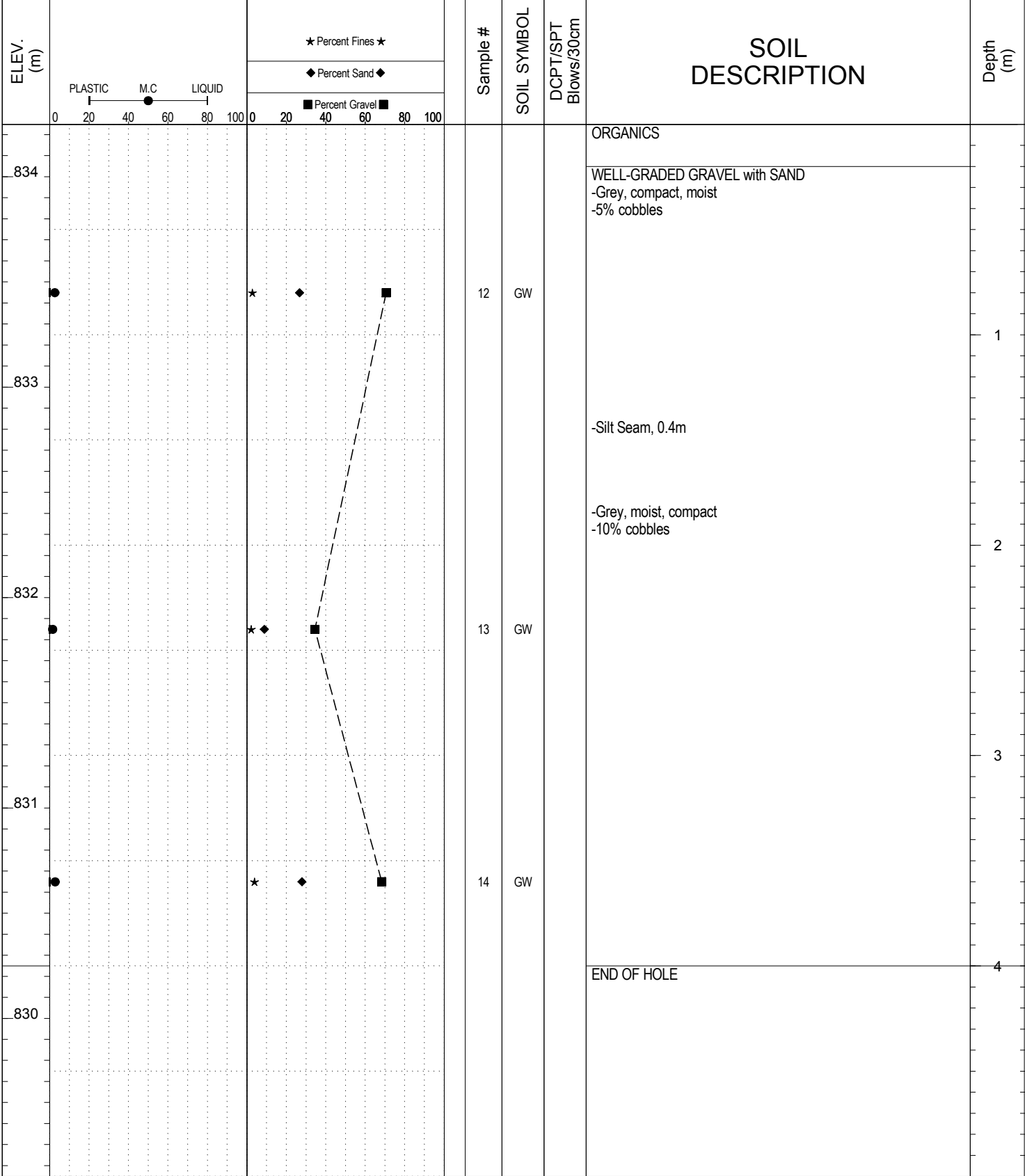
SUBSURFACE EXPLORATION AND TEST REPORT		1	SOURCE/TP#: 836-4826
Chuck's Exploration		Lewis Creek, 1691.0 LHS	PROJECT NO: 552-202101-1001-1-1
CAT Excavator E120B		Coordinates: Z07V N6797652m E613026.3m	ELEVATION: 843.425781m

SAMPLE TYPE     UNDISTURBED     DCPT     AUGER     BULK     SPT     CORE



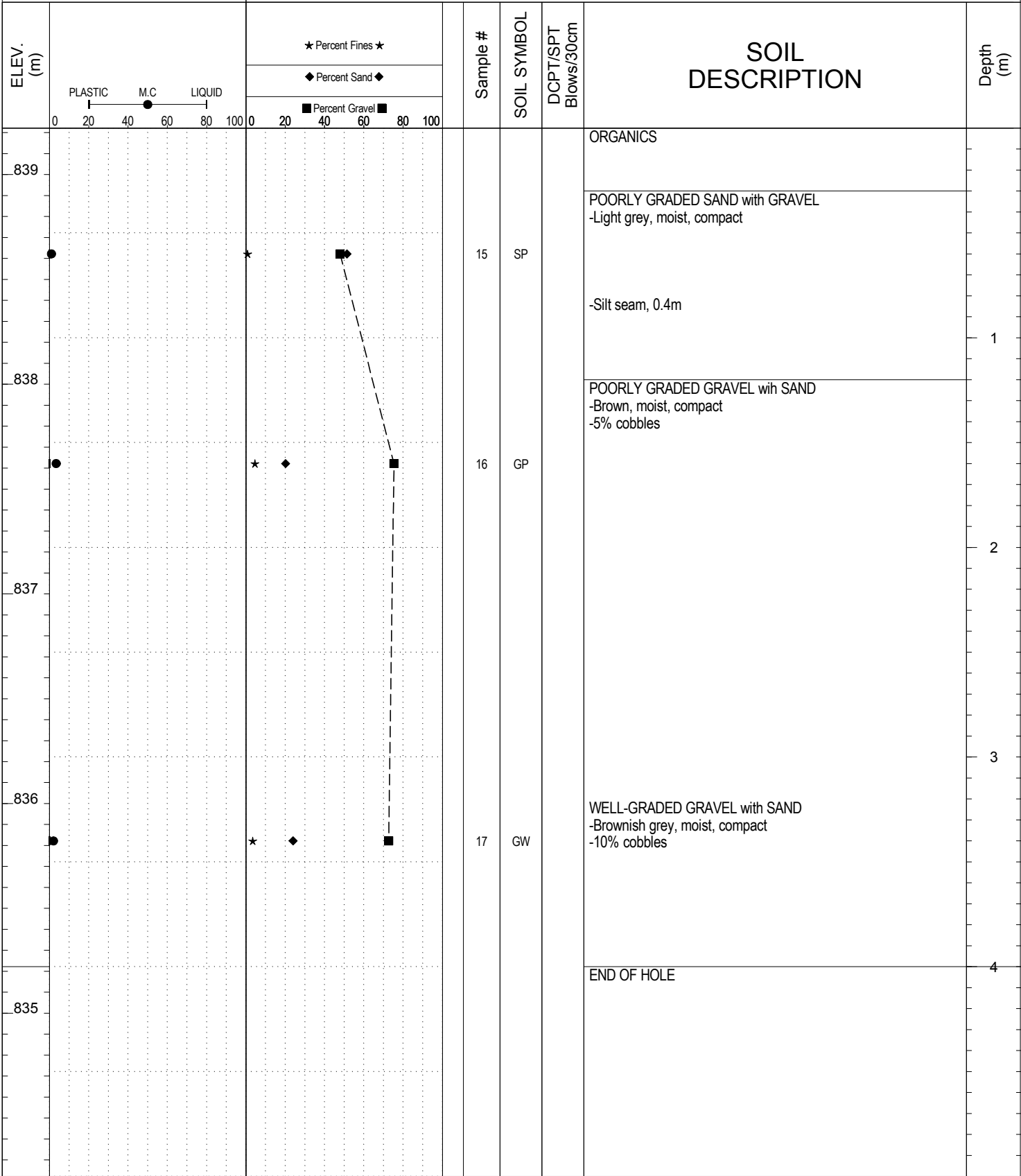
SUBSURFACE EXPLORATION AND TEST REPORT		1	SOURCE/TP#: 836-4827
Chuck's Exploration		Lewis Creek, 1691.0 LHS	PROJECT NO: 552-202101-1001-1-1
CAT Excavator E120B		Coordinates: Z07V N6797670m E613112.2m	ELEVATION: 834.248962m

SAMPLE TYPE     UNDISTURBED     DCPT     AUGER     BULK     SPT     CORE



SUBSURFACE EXPLORATION AND TEST REPORT		1	SOURCE/TP#: 836-4828
Chuck's Exploration		Lewis Creek, 1691.0 LHS	PROJECT NO: 552-202101-1001-1-1
CAT Excavator E120B		Coordinates: Z07V N6797585m E613204.2m	ELEVATION: 839.221802m

SAMPLE TYPE     UNDISTURBED     DCPT     AUGER     BULK     SPT     CORE



SUBSURFACE EXPLORATION AND TEST REPORT		1		SOURCE/TP#: 836-4829									
Chuck's Exploration		Lewis Creek, 1691.0 LHS		PROJECT NO: 552-202101-1001-1-1									
CAT Excavator E120B		Coordinates: Z07V N6797499m E613193.5m		ELEVATION: 844.091614m									
SAMPLE TYPE		UNDISTURBED		DCPT		AUGER		BULK		SPT		CORE	
ELEV. (m)	PLASTIC M.C. LIQUID		★ Percent Fines ★		Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION		Depth (m)		
	0 20 40 60 80 100		◆ Percent Sand ◆									■ Percent Gravel ■	
844									ORGANICS				
			★		Hand	18	GW		POORLY GRADED GRAVEL with SAND -Light Grey, moist, compact		1		
843									-Sandy silty seam, 0.6m				
									-Greyish brown, moist -5-10% cobbles, 200mm max		2		
842			★		Hand	19	GP						
			◆								3		
841			★		Hand	20	GW		-Brown -10-15% cobbles, some boulders				
			◆								4		
840									END OF HOLE				

GRAIN SIZE ANALYSIS	Lewis Creek	SOURCE/TP#: 836-4822
Chuck's Exploration	1691.0 LHS	PROJECT NO: 552-202101-1001-1-1
CAT Excavator E120B	Coordinates:Z07V N6797463m E613288.5m	ELEVATION: 840.593201m

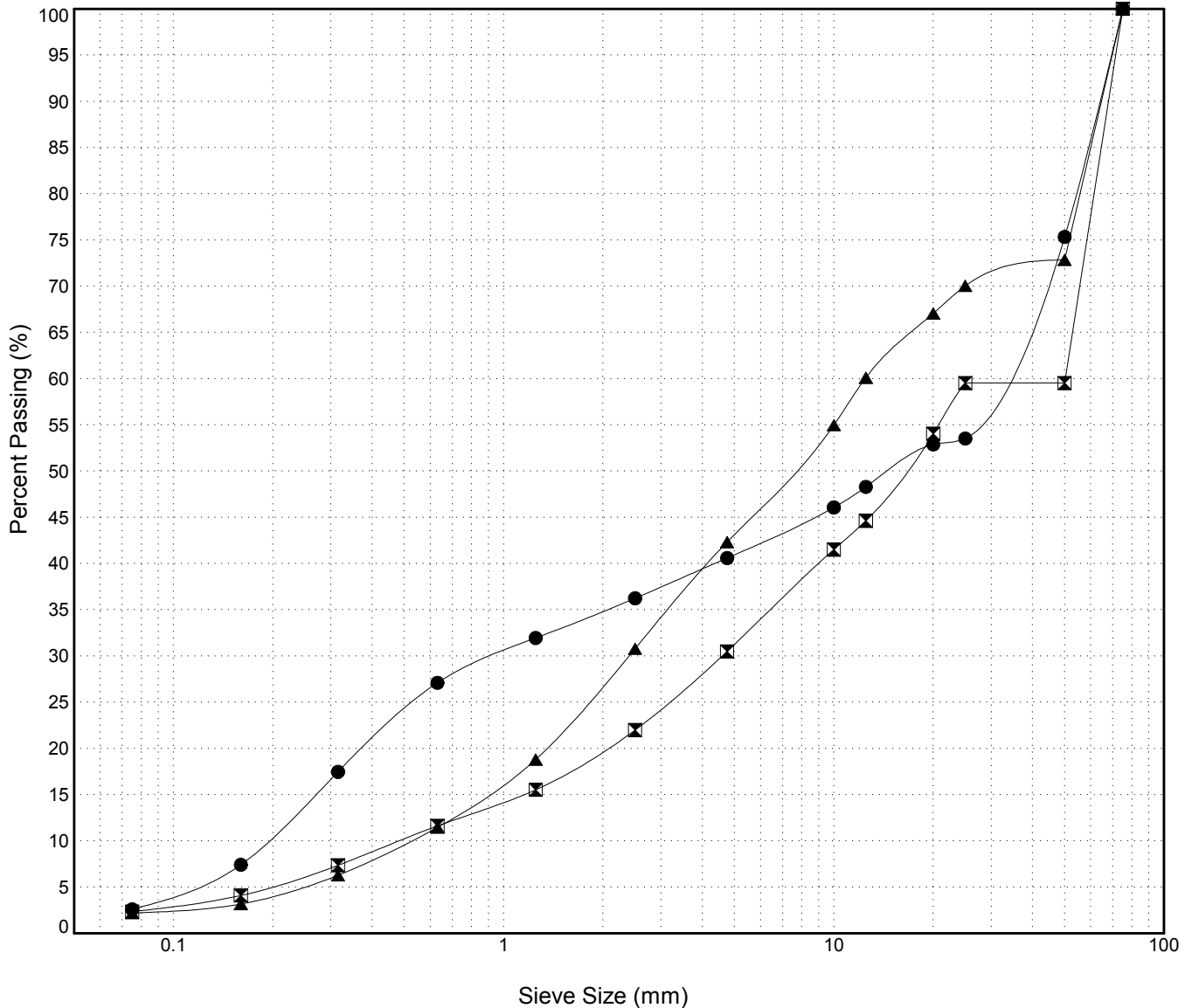
Master Revised July 2013

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 01	175	0.6 to 1.0	POORLY GRADED GRAVEL with SAND(GP)	1.4	NP	NP	NP	0.2	161.3
☒ 02	176	2.2 to 2.6	POORLY GRADED GRAVEL with SAND(GP)	1.4	NP	NP	NP	0.9	103.6
▲ 03	177	3.6 to 4.0	POORLY GRADED GRAVEL with SAND(GP)	2.8	NP	NP	NP	0.9	24.0

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
● 01	175	100.0	100.0	75.3	53.5	52.9	48.3	46.1	40.6	36.2	31.9	27.1	17.5	7.4	2.6	59.4	38.0	2.6	
☒ 02	176	100.0	100.0	59.5	59.5	54.0	44.6	41.5	30.5	22.0	15.5	11.6	7.4	4.1	2.3	69.5	28.1	2.3	
▲ 03	177	100.0	100.0	72.8	70.0	67.1	60.1	55.0	42.3	30.8	18.8	11.4	6.3	3.2	2.2	57.7	40.1	2.2	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



GRAIN SIZE ANALYSIS	Lewis Creek	SOURCE/TP#: 836-4823
Chuck's Exploration	1691.0 LHS	PROJECT NO: 552-202101-1001-1-1
CAT Excavator E120B	Coordinates:Z07V N6797418m E613202.7m	ELEVATION: 844.13916m

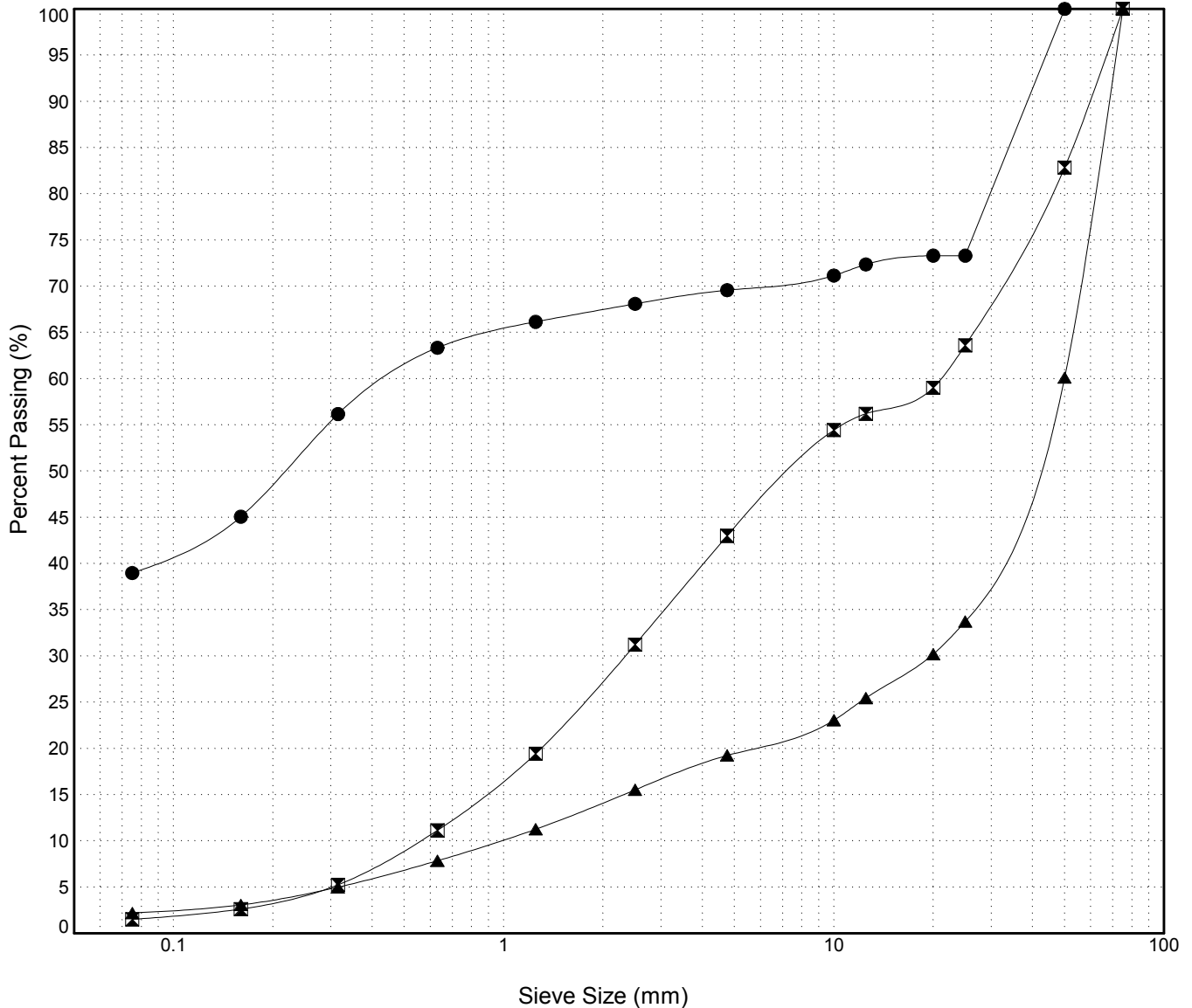
Master Revised July 2013

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 04	178	1.2 to 1.6	SILTY SAND with GRAVEL(SM)	17.0	NP	NP	NP		
☒ 05	179	2.4 to 2.8	POORLY GRADED GRAVEL with SAND(GP)	1.6	NP	NP	NP	0.5	38.0
▲ 06	180	3.6 to 4.0	POORLY GRADED GRAVEL with SAND(GP)	0.8	NP	NP	NP	8.0	51.3

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
● 04	178	100.0	100.0	100.0	100.0	73.3	73.3	72.4	71.2	69.6	68.1	66.1	63.3	56.2	45.1	39.0	30.4	30.6	39.0	
☒ 05	179	100.0	100.0	82.8	63.6	59.0	56.2	54.4	43.0	31.2	19.4	11.1	5.2	2.6	1.5		57.0	41.5	1.5	
▲ 06	180	100.0	100.0	60.1	33.7	30.2	25.5	23.0	19.2	15.5	11.2	7.8	5.0	3.1	2.2		80.8	17.0	2.2	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



GRAIN SIZE ANALYSIS	Lewis Creek	SOURCE/TP#: 836-4824
Chuck's Exploration	1691.0 LHS	PROJECT NO: 552-202101-1001-1-1
CAT Excavator E120B	Coordinates:Z07V N6797511m E613126.3m	ELEVATION: 841.15863m

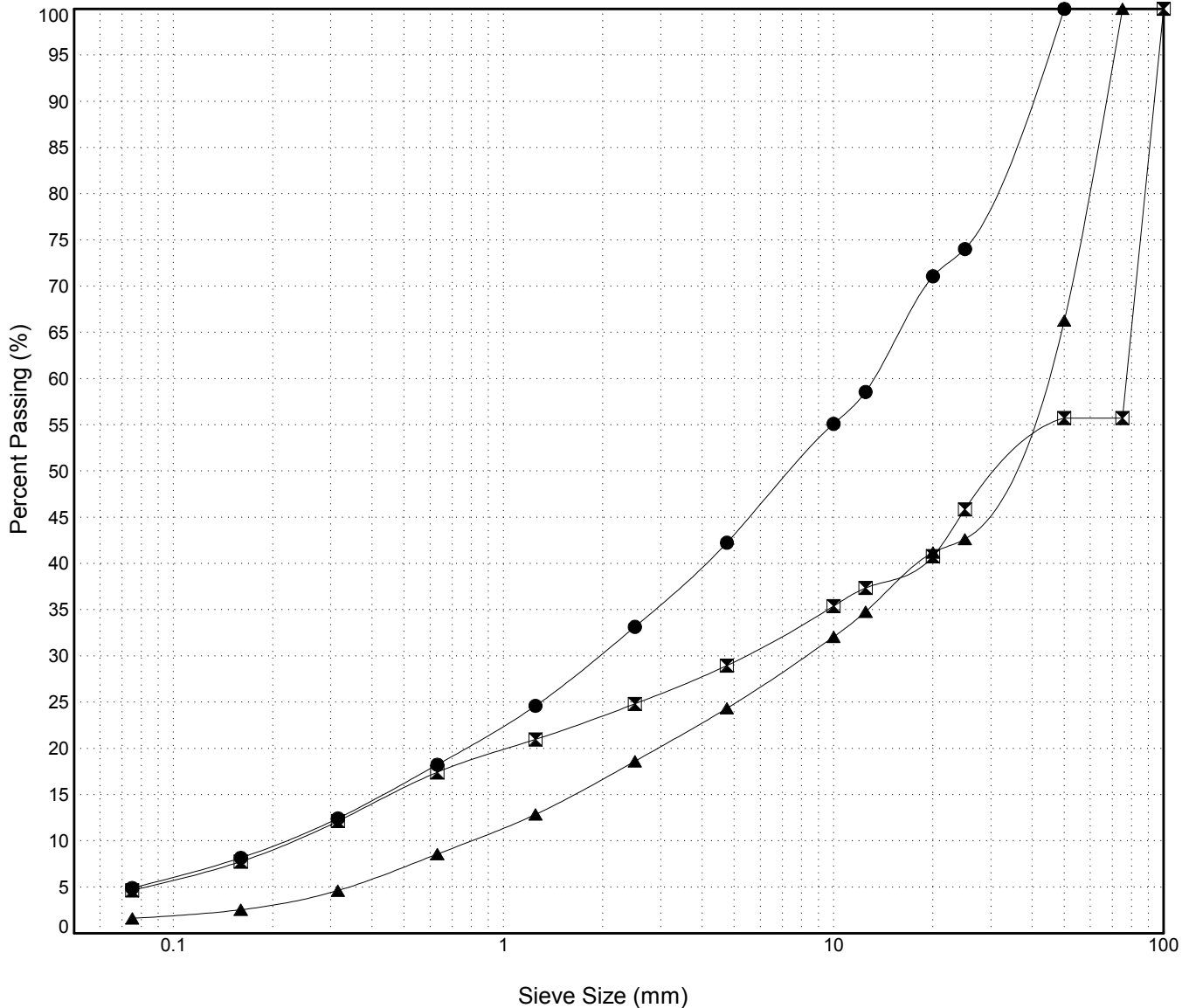
Master Revised July 2013

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 07	181	0.6 to 1.0	WELL-GRADED GRAVEL with SAND(GW)	3.8	NP	NP	NP	1.3	61.6
☒ 08	182	2.0 to 2.4	WELL-GRADED GRAVEL with SILT and SAND(GW-GM)	3.7	NP	NP	NP	1.6	340.6
▲ 09	183	3.4 to 3.8	WELL-GRADED GRAVEL with SAND(GW)	1.4	NP	NP	NP	2.0	52.5

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
● 07	181	100.0	100.0	100.0	100.0	74.0	71.1	58.6	55.1	42.3	33.1	24.6	18.2	12.4	8.2	4.9	57.7	37.4	4.9	
☒ 08	182	100.0	55.7	55.7	45.9	40.8	37.4	35.4	29.0	24.8	21.0	17.4	12.1	7.8	4.6	26.8	24.3	4.6		
▲ 09	183	100.0	100.0	66.3	42.6	41.2	34.8	32.1	24.3	18.6	12.9	8.6	4.6	2.5	1.6	75.7	22.7	1.6		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse

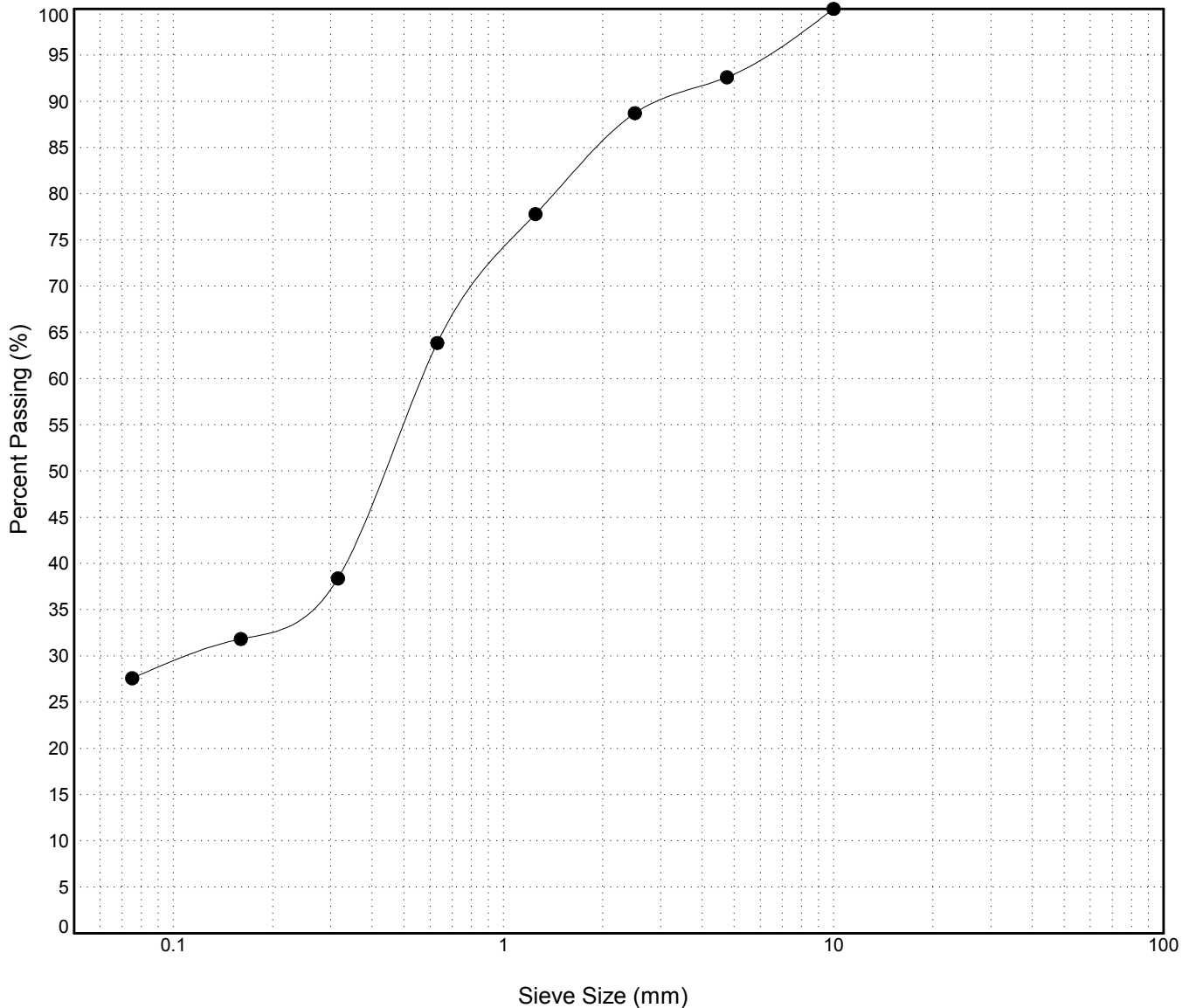


GRAIN SIZE ANALYSIS	Lewis Creek	SOURCE/TP#: 836-4825
Chuck's Exploration	1691.0 LHS	PROJECT NO: 552-202101-1001-1-1
CAT Excavator E120B	Coordinates:Z07V N6797581m E613053.2m	ELEVATION: 842.884094m

Master Revised July 2013

Field #	Lab #	Depth	Classification											%H2O	LL	PL	PI	Cc	Cu
● 10	184	0.4 to 0.8	SILTY SAND(SM)											180.4	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			
● 10	184	100.0	100.0	100.0	100.0	100.0	100.0	100.0	92.6	88.7	77.8	63.9	38.4	31.8	27.6	Gravel	Sand	Silt	Clay
																7.4	65.0	27.6	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse

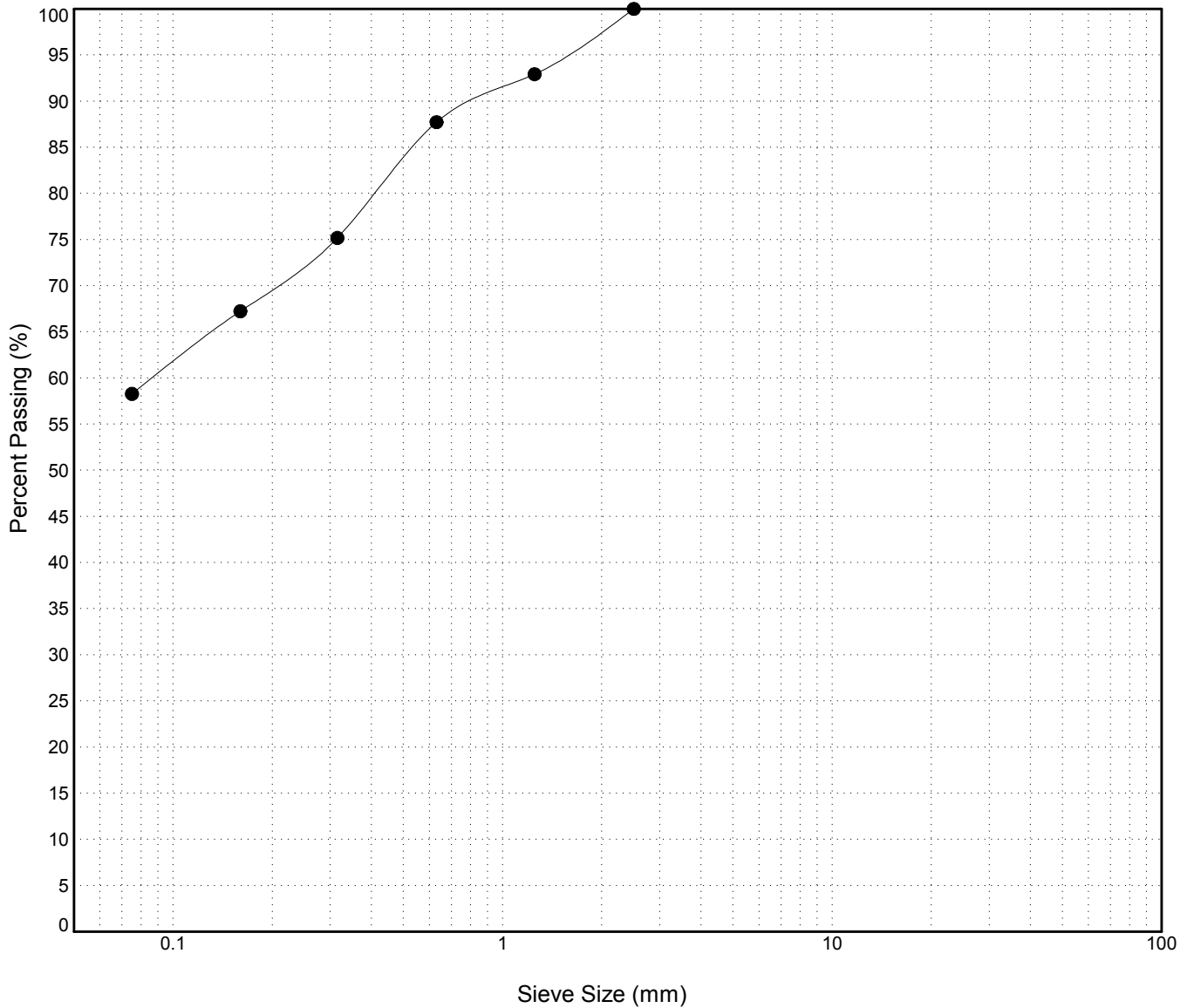


GRAIN SIZE ANALYSIS	Lewis Creek	SOURCE/TP#: 836-4826
Chuck's Exploration	1691.0 LHS	PROJECT NO: 552-202101-1001-1-1
CAT Excavator E120B	Coordinates:Z07V N6797652m E613026.3m	ELEVATION: 843.425781m

Master Revised July 2013

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu										
● 11	185	0.3 to 0.8	SANDY SILT (ML)	37.2	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			
● 11	185	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	92.9	87.7	75.2	67.2	58.3	Gravel	Sand	Silt	Clay
																0.0	41.7	58.3	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



GRAIN SIZE ANALYSIS	Lewis Creek	SOURCE/TP#: 836-4827
Chuck's Exploration	1691.0 LHS	PROJECT NO: 552-202101-1001-1-1
CAT Excavator E120B	Coordinates:Z07V N6797670m E613112.2m	ELEVATION: 834.248962m

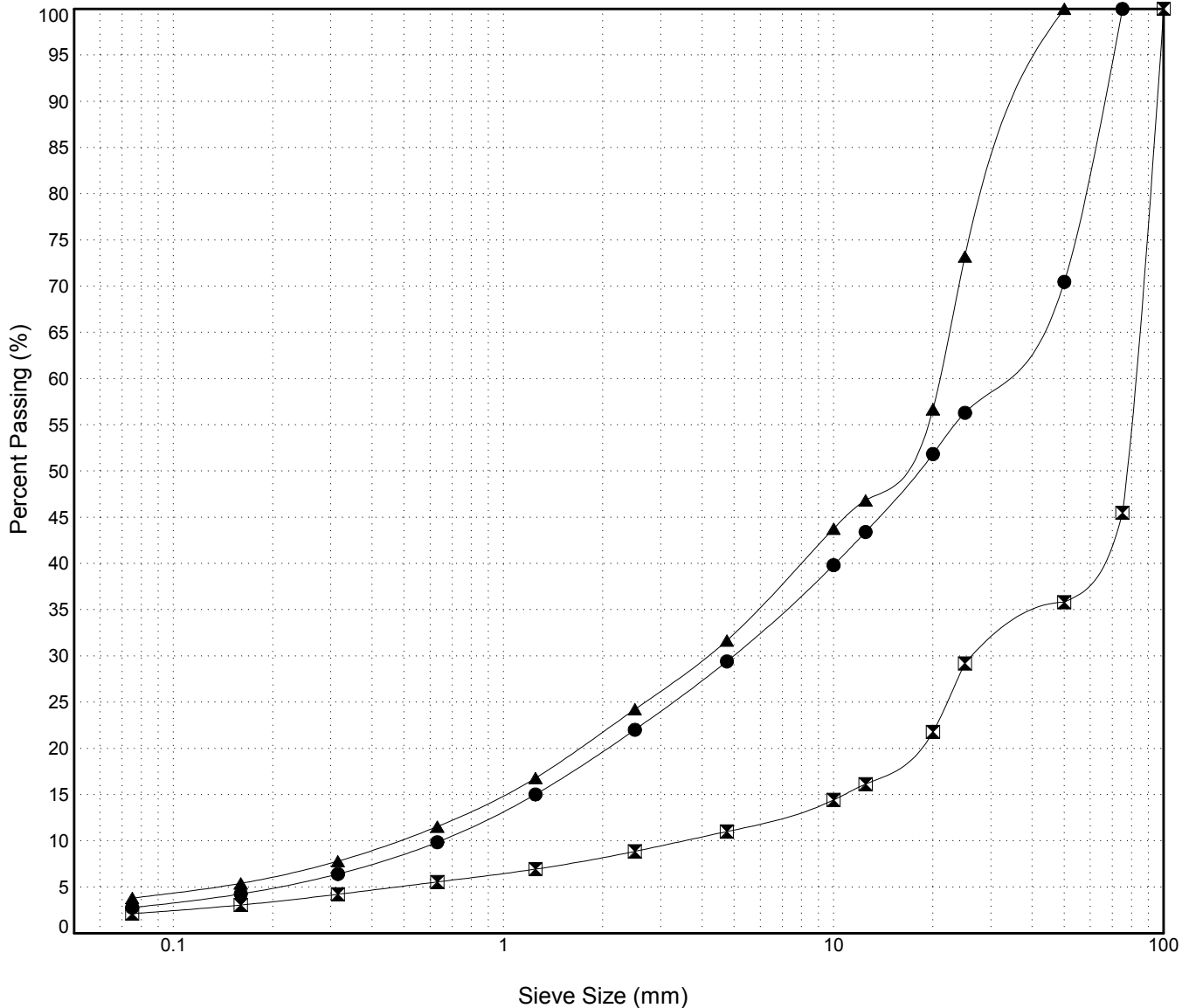
Master Revised July 2013

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 12	186	0.6 to 1.0	WELL-GRADED GRAVEL with SAND(GW)	2.6	NP	NP	NP	1.3	46.6
☒ 13	187	2.2 to 2.6	WELL-GRADED GRAVEL with SAND(GW)	1.5	NP	NP	NP	2.6	23.0
▲ 14	188	3.4 to 3.8	WELL-GRADED GRAVEL with SAND(GW)	2.8	NP	NP	NP	1.7	44.2

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
● 12	186	100.0	100.0	100.0	70.5	56.3	51.8	43.4	39.8	29.4	22.0	15.0	9.9	6.4	4.3	2.8	70.6	26.6	2.8	
☒ 13	187	100.0	45.5	35.8	29.2	21.8	16.1	14.4	11.0	8.9	6.9	5.6	4.2	3.1	2.1		34.5	8.9	2.1	
▲ 14	188	100.0	100.0	100.0	73.2	56.7	46.8	43.8	31.7	24.2	16.8	11.5	7.8	5.4	3.8		68.3	27.9	3.8	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



GRAIN SIZE ANALYSIS	Lewis Creek	SOURCE/TP#: 836-4828
Chuck's Exploration	1691.0 LHS	PROJECT NO: 552-202101-1001-1-1
CAT Excavator E120B	Coordinates:Z07V N6797585m E613204.2m	ELEVATION: 839.221802m

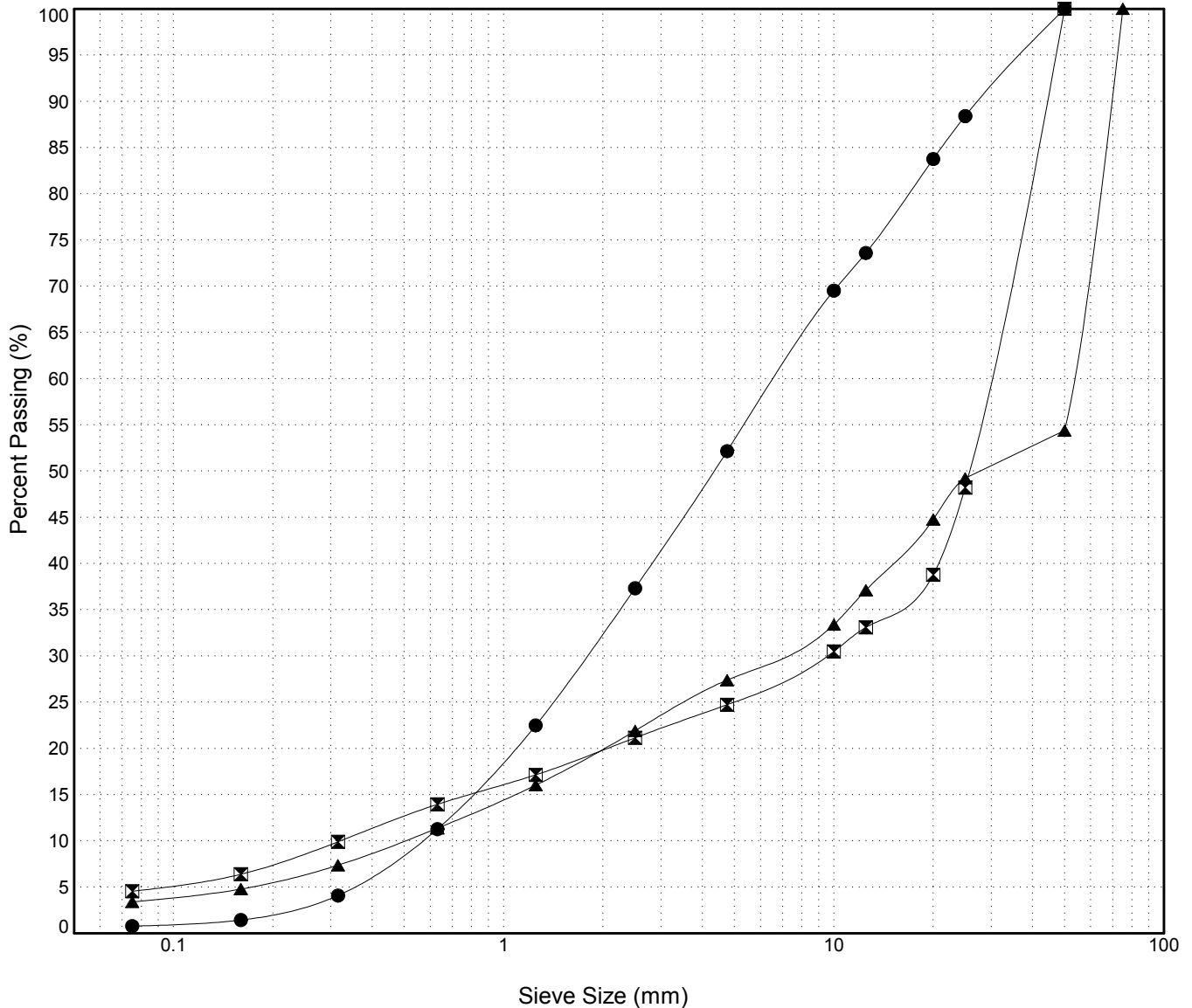
Master Revised July 2013

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 15	189	0.4 to 0.8	POORLY GRADED SAND with GRAVEL(SP)	1.0	NP	NP	NP	0.9	11.9
☒ 16	190	1.4 to 1.8	POORLY GRADED GRAVEL with SAND(GP)	3.4	NP	NP	NP	9.4	91.4
▲ 17	191	3.2 to 3.6	WELL-GRADED GRAVEL with SAND(GW)	2.0	NP	NP	NP	1.6	105.6

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
● 15	189	100.0	100.0	100.0	100.0	88.4	83.8	73.6	69.5	52.2	37.3	22.5	11.3	4.1	1.4	0.8	47.8	51.4	0.8
☒ 16	190	100.0	100.0	100.0	48.2	38.8	33.1	30.5	24.7	21.1	17.1	13.9	9.9	6.4	4.5		75.3	20.2	4.5
▲ 17	191	100.0	100.0	54.4	49.2	44.8	37.1	33.4	27.4	21.9	16.0	11.4	7.4	4.8	3.4		72.6	24.0	3.4

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



GRAIN SIZE ANALYSIS	Lewis Creek	SOURCE/TP#: 836-4829
Chuck's Exploration	1691.0 LHS	PROJECT NO: 552-202101-1001-1-1
CAT Excavator E120B	Coordinates:Z07V N6797499m E613193.5m	ELEVATION: 844.091614m

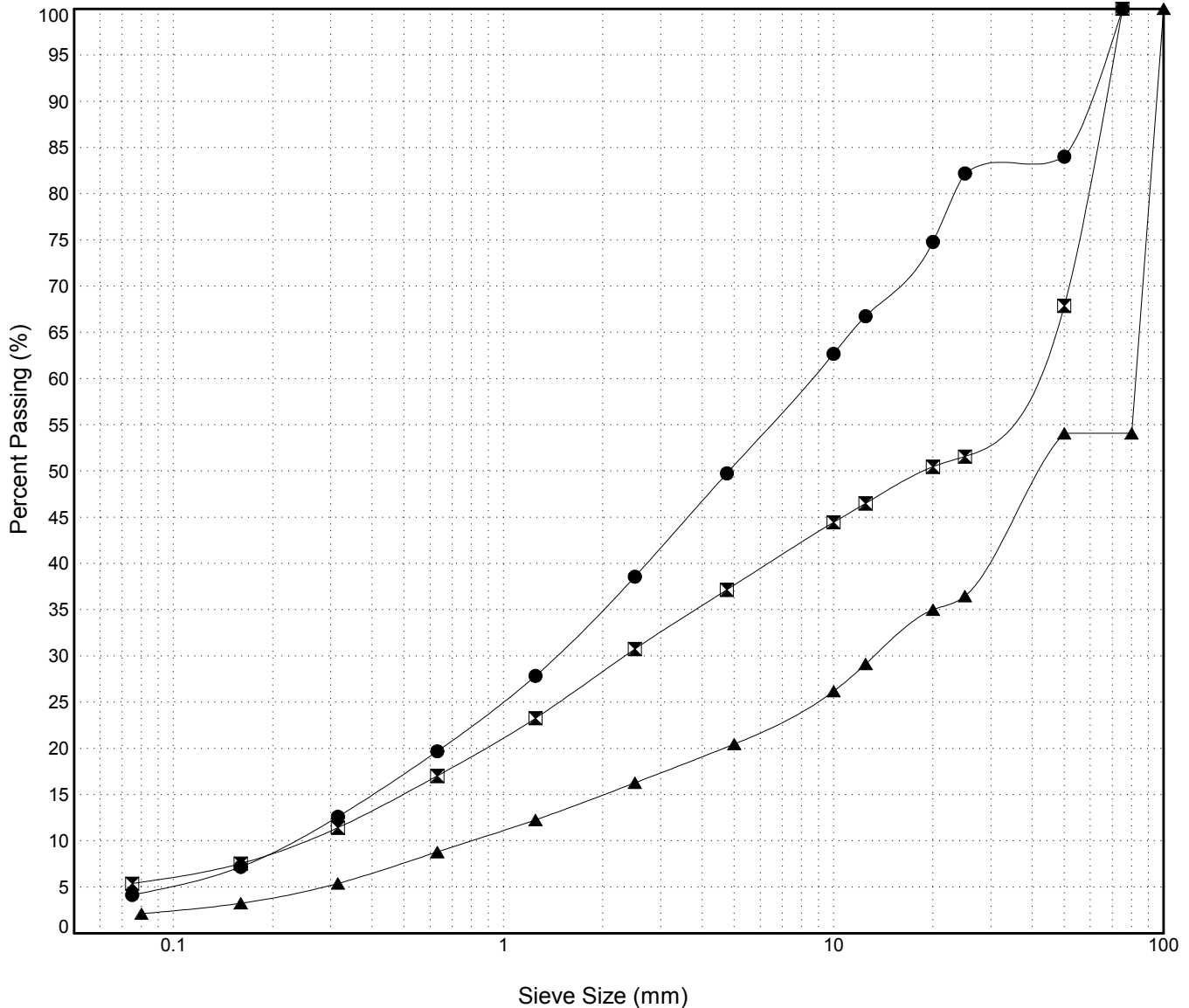
Master Revised July 2013

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 18	192	0.4 to 0.8	WELL-GRADED GRAVEL with SAND(GW)	2.9	NP	NP	NP	1.1	37.7
☒ 19	193	2.2 to 2.6	POORLY GRADED GRAVEL with SILT and SAND(GP-GM)	3.7	NP	NP	NP	0.6	145.6
▲ 20	194	3.4 to 3.8		1.1	NP	NP	NP	2.7	103.1

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
● 18	192	100.0	100.0	84.0	82.2	74.8	66.7	62.7	49.8	38.6	27.8	19.7	12.6	7.2	4.2	50.2	45.6	4.2	
☒ 19	193	100.0	100.0	67.9	51.6	50.5	46.5	44.5	37.2	30.7	23.3	17.0	11.4	7.5	5.4	62.8	31.8	5.4	
▲ 20	194	100.0	54.1	54.1	36.5	35.0	29.1	26.2	20.2	16.3	12.3	8.8	5.4	3.3	100.0	33.9			

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



GRAIN SIZE ANALYSIS	Lewis Creek	SOURCE/TP#: 836-4829
Chuck's Exploration	1691.0 LHS	PROJECT NO: 552-202101-1001-1-1
CAT Excavator E120B	Coordinates:Z07V N6797499m E613193.5m	ELEVATION: 844.091614m

Master Revised July 2013

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 18	192	0.4 to 0.8	WELL-GRADED GRAVEL with SAND(GW)	2.9	NP	NP	NP	1.1	37.7
☒ 19	193	2.2 to 2.6	POORLY GRADED GRAVEL with SILT and SAND(GP-GM)	3.7	NP	NP	NP	0.6	145.6
▲ 20	194	3.4 to 3.8	WELL-GRADED GRAVEL with SAND(GW)	1.1	NP	NP	NP	2.9	97.4

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
● 18	192	100.0	100.0	100.0	84.0	82.2	74.8	66.7	62.7	49.8	38.6	27.8	19.7	12.6	7.2	4.2	50.2	45.6	4.2
☒ 19	193	100.0	100.0	67.9	51.6	50.5	46.5	44.5	37.2	30.7	23.3	17.0	11.4	7.5	5.4	62.8	31.8	5.4	
▲ 20	194	100.0	54.1	54.1	36.5	35.0	29.1	26.2	20.5	16.3	12.3	8.8	5.4	3.3	2.1	33.6	18.4	2.1	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse

