

SUBSURFACE EXPLORATION AND TEST REPORT		1		SOURCE/TP#: 860-5213	
Chuck's Exploration		Duke River, km 1707		PROJECT NO: 552-202955-5311-1	
CAT Excavator 120B		Coordinates: Z07V N6805258m E600604.9m		ELEVATION: 830.9m	
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		★ Percent Fines ★ ◆ Percent Sand ◆ ■ Percent Gravel ■		SOIL DESCRIPTION
	0      20      40      60      80      100		Sample Type Sample # SOIL SYMBOL DCPT/SPT Blows/30cm		
830			01 GP-GM		ORGANICS  POORLY GRADED GRAVEL with SILT and SAND -Dark brown, damp, loose -5-10% Cobbles
829			02 GW		WELL-GRADED GRAVEL with SAND -Greyish brown -15-20% Cobbles
828					
827			03 GP		POORLY GRADED GRAVEL
826					END of HOLE

SUBSURFACE EXPLORATION AND TEST REPORT		1		SOURCE/TP#: 860-5214									
Chuck's Exploration		Duke River, km 1707		PROJECT NO: 552-202955-5311-1									
CAT Excavator 120B		Coordinates: Z07V N6805208m E600584.1m		ELEVATION: 829.6m									
SAMPLE TYPE		UNDISTURBED		DCPT		AUGER		BULK		SPT		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)	
	0      20      40      60      80      100			0      20      40      60      80      100									
829				★	◆	■	04	GP		ORGANICS  POORLY GRADED GRAVEL with SAND -Dark brown, damp, loose -5-10% Cobbles		1	
828				★	◆	■	05	GW		WELL-GRADED GRAVEL with SAND -Dark grey, damp, loose -15-20% Cobbles		2	
827												3	
826				★	◆	■	06	GW				4	
825										END of HOLE			

SUBSURFACE EXPLORATION AND TEST REPORT		1		SOURCE/TP#: 860-5215				
Chuck's Exploration		Duke River, km 1707		PROJECT NO: 552-202955-5311-1				
CAT Excavator 120B		Coordinates: Z07V N6805255m E600530.4m		ELEVATION: 840.3m				
SAMPLE TYPE		<input type="checkbox"/> UNDISTURBED <input type="checkbox"/> DCPT <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input checked="" type="checkbox"/> SPT <input type="checkbox"/> CORE						
ELEV. (m)	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>PLASTIC      M.C      LIQUID</p> <p>0      20      40      60      80      100</p> </div> <div style="width: 45%;"> <p>★ Percent Fines ★</p> <p>◆ Percent Sand ◆</p> <p>■ Percent Gravel ■</p> <p>0      20      40      60      80      100</p> </div> </div>		Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
840			07	GW		ORGANICS	1	
839			08	GP		WELL-GRADED GRAVEL with SAND -Dark brown, damp, loose -10-15% Cobbles	2	
838						POORLY GRADED GRAVEL with SAND -15-20% Cobbles, some boulders	3	
837			09	GW		WELL-GRADED GRAVEL with SAND	4	
836						END of HOLE		
				LOGGED BY: G. Kennedy		Termination Depth: 4m		
				COMPILED BY: M. Jubinville		Complete: 8/13/2015		
				REVIEWED BY: R.Stiwell		Pit #: 115 G-05      Page 1 of 1		

SUBSURFACE EXPLORATION AND TEST REPORT		1		SOURCE/TP#: 860-5216					
Chuck's Exploration		Duke River, km 1707		PROJECT NO: 552-202955-5311-1					
CAT Excavator 120B		Coordinates: Z07V N6805258m E600442.8m		ELEVATION: 542.6m					
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)	PLASTIC      M.C      LIQUID 0      20      40      60      80      100			Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	★ Percent Fines ★	◆ Percent Sand ◆	■ Percent Gravel ■						
542				★	◆	■		ORGANICS	1
								POORLY GRADED GRAVEL with SAND -Dark brown, damp, loose -10-15% Cobbles	
541				★	◆	■		WELL-GRADED GRAVEL with SAND -Greyish brown -15-20% Cobbles, odd boulder	2
540									3
539				★	◆	■			4
538								END of HOLE	

SUBSURFACE EXPLORATION AND TEST REPORT		1		SOURCE/TP#: 860-5217									
Chuck's Exploration		Duke River, km 1707		PROJECT NO: 552-202955-5311-1									
CAT Excavator 120B		Coordinates: Z07V N6805341m E600447.1m		ELEVATION: 804.7m									
SAMPLE TYPE		UNDISTURBED		DCPT		AUGER		BULK		SPT		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)
	0      20      40      60      80      100			0      20      40      60      80      100									
804				★	◆	■	█	13	GW		ORGANICS		1
803											WELL-GRADED GRAVEL with SAND -Brown, damp, loose -15-20% Cobbles, odd boulder		
802				★	◆	■	█	14	GW		POORLY GRADED GRAVEL with SAND -Slightly darker colour		2
801				★	◆	■	█	15	GP				3
800											END of HOLE		4

SUBSURFACE EXPLORATION AND TEST REPORT		1		SOURCE/TP#: 860-5218				
Chuck's Exploration		Duke River, km 1707		PROJECT NO: 552-202955-5311-1				
CAT Excavator 120B		Coordinates: Z07V N6805328m E600359m		ELEVATION: 838.7m				
SAMPLE TYPE	UNDISTURBED	DCPT	AUGER	BULK	SPT	CORE		
ELEV. (m)	★ Percent Fines ★ ◆ Percent Sand ◆ ■ Percent Gravel ■		Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	PLASTIC      M.C      LIQUID 0      20      40      60      80      100							
838				16	GP		ORGANICS	1
							POORLY GRADED GRAVEL with SAND -Dark brown, damp, loose -5-10% Cobbles	
837				17	GP		-Greyish brown -15-20% Cobbles, odd boulder	2
836								3
835				18	GW		WELL-GRADED GRAVEL with SAND	4
834							END of HOLE	

SUBSURFACE EXPLORATION AND TEST REPORT		1		SOURCE/TP#: 860-5219					
Chuck's Exploration		Duke River, km 1707		PROJECT NO: 552-202955-5311-1					
CAT Excavator 120B		Coordinates: Z07V N6805369m E600276.7m		ELEVATION: 841.5m					
SAMPLE TYPE		<input type="checkbox"/> UNDISTURBED <input type="checkbox"/> DCPT <input checked="" 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 Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	PLASTIC 0 20 40 60 80 100 M.C. LIQUID	0 20 40 60 80 100	0 20 40 60 80 100						
841					19	GP		ORGANICS  POORLY GRADED GRAVEL with SAND -Dark brown, damp, loose -5-10% Cobbles	1
840					20	GW		WELL-GRADED GRAVEL with SAND -Greyish brown, damp, loose -15-20% Cobbles, odd boulder	2
839								POORLY GRADED GRAVEL with SAND	3
838					21	GP		END of HOLE	4
837									

SUBSURFACE EXPLORATION AND TEST REPORT		1		SOURCE/TP#: 860-5220									
Chuck's Exploration		Duke River, km 1707		PROJECT NO: 552-202955-5311-1									
CAT Excavator 120B		Coordinates: Z07V N6805424m E600183.4m		ELEVATION: 846.5m									
SAMPLE TYPE		UNDISTURBED		DCPT		AUGER		BULK		SPT		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)	
	0      20      40      60      80      100			0      20      40      60      80      100									
846				★	◆	■	22	GW		ORGANICS  WELL-GRADED GRAVEL with SAND -Dark brown, damp, loose -10-15% Cobbles		1	
845				★	◆	■	23	GW		-Dark greyish brown -15-20% Cobbles, odd boulder		2	
844										POORLY GRADED GRAVEL with SAND		3	
843				★	◆	■	24	GP				4	
842										END of HOLE			

SUBSURFACE EXPLORATION AND TEST REPORT		1		SOURCE/TP#: 860-5221				
Chuck's Exploration		Duke River, km 1707		PROJECT NO: 552-202955-5311-1				
CAT Excavator 120B		Coordinates: Z07V N6805497m E600182.6m		ELEVATION: 848.2m				
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 Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	PLASTIC      M.C      LIQUID 0      20      40      60      80      100							
848	★      ◆      ■		GP-GM	25	GP-GM		ORGANICS  POORLY GRADED GRAVEL with SILT and SAND -Dark brown, damp, loose -5-10% Cobbles	1
847	★      ◆      ■		GP	26	GP		POORLY GRADED GRAVEL with SAND -Greyish brown -15-20% Cobbles	2
846	★      ◆      ■						WELL-GRADED GRAVEL with SAND -Dark brown -15-20% Cobbles	3
845	★      ◆      ■		GW	27	GW		END of HOLE	4

SUBSURFACE EXPLORATION AND TEST REPORT		1		SOURCE/TP#: 860-5222				
Chuck's Exploration		Duke River, km 1707		PROJECT NO: 552-202955-5311-1				
CAT Excavator 120B		Coordinates: Z07V N6805524m E600274.8m		ELEVATION: 849.4m				
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)	★ Percent Fines ★ ◆ Percent Sand ◆ ■ Percent Gravel ■		Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	PLASTIC      M.C      LIQUID 0      20      40      60      80      100							
849	★      ◆      ■		█	28	GW		ORGANICS	1
848	★      ◆      ■		█	29	GW		-Light brown, damp, loose -10-15% Cobbles	2
847	★      ◆      ■		█				-Lighter colour -15-20% Cobbles, odd boulder	3
846	★      ◆      ■		█	30	GW			4
845	★      ◆      ■		█				END of HOLE	
		LOGGED BY: G. Kennedy COMPILED BY: M. Jubinville REVIEWED BY: R. Stiwell		Termination Depth: 4m Complete: 8/13/2015 Pit #: 115 G-05		Page 1 of 1		

SUBSURFACE EXPLORATION AND TEST REPORT		1		SOURCE/TP#: 860-5223					
Chuck's Exploration		Duke River, km 1707		PROJECT NO: 552-202955-5311-1					
CAT Excavator 120B		Coordinates: Z07V N6805511m E600354.6m		ELEVATION: 848.9m					
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 Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	★ Percent Fines ★	◆ Percent Sand ◆	■ Percent Gravel ■						
848					31	GP-GM		ORGANICS  POORLY GRADED GRAVEL with SILT and SAND -Dark brown, damp, loose -10-15% Cobbles	1
847					32	GP		POORLY GRADED GRAVEL with SAND	2
846					33	GP		-15-20% Cobbles, odd boulder	3
845								END of HOLE	4
844									

SUBSURFACE EXPLORATION AND TEST REPORT		1		SOURCE/TP#: 860-5224		
Chuck's Exploration		Duke River, km 1707		PROJECT NO: 552-202955-5311-1		
CAT Excavator 120B		Coordinates: Z07V N6805440m E600444.4m		ELEVATION: 846.4m		
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		★ Percent Fines ★ ◆ Percent Sand ◆ ■ Percent Gravel ■		SOIL DESCRIPTION	Depth (m)
	0      20      40      60      80      100		Sample Type Sample # SOIL SYMBOL DCPT/SPT Blows/30cm			
846			Sample # 34 SOIL SYMBOL GP DCPT/SPT Blows/30cm		ORGANICS  POORLY GRADED GRAVEL with SAND -Dark brown, damp, loose -10-15% Cobbles	1
845			Sample # 35 SOIL SYMBOL GW DCPT/SPT Blows/30cm		WELL-GRADED GRAVEL with SAND -Light brown, damp, loose -15-20% Cobbles, odd boulder	2
844			Sample # 36 SOIL SYMBOL GW DCPT/SPT Blows/30cm			3
843						4
842					END of HOLE	

SUBSURFACE EXPLORATION AND TEST REPORT		1		SOURCE/TP#: 860-5225				
Chuck's Exploration		Duke River, km 1707		PROJECT NO: 552-202955-5311-1				
CAT Excavator 120B		Coordinates: Z07V N6805418m E600361.7m		ELEVATION: 850.4m				
SAMPLE TYPE		<input type="checkbox"/> UNDISTURBED <input type="checkbox"/> DCPT <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input checked="" type="checkbox"/> SPT <input type="checkbox"/> CORE						
ELEV. (m)	<div style="display: flex; justify-content: space-between;"> <div style="text-align: center;"> <p>★ Percent Fines ★</p> <p>◆ Percent Sand ◆</p> <p>■ Percent Gravel ■</p> </div> <div style="text-align: center;"> <p>PLASTIC    M.C.    LIQUID</p> <p>0    20    40    60    80    100</p> </div> </div>		Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	<p>0    20    40    60    80    100</p>							
850			█	37	GP-GM		ORGANICS	
849			█				POORLY GRADED GRAVEL with SILT and SAND -Light brown, damp, loose -10-15% Cobbles, odd boulder	1
848			█	38	GP		POORLY GRADED GRAVEL with SAND	2
847			█	39	GW		WELL-GRADED GRAVEL with SAND	3
846			█				END of HOLE	4

SUBSURFACE EXPLORATION AND TEST REPORT		1		SOURCE/TP#: 860-5226									
Chuck's Exploration		Duke River, km 1707		PROJECT NO: 552-202955-5311-1									
CAT Excavator 120B		Coordinates: Z07V N6805446m E600279.5m		ELEVATION: 854.4m									
SAMPLE TYPE		UNDISTURBED		DCPT		AUGER		BULK		SPT		CORE	
ELEV. (m)	PLASTIC      M.C      LIQUID 0      20      40      60      80      100			Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION				Depth (m)	
	★ Percent Fines ★	◆ Percent Sand ◆	■ Percent Gravel ■										
854				★	◆	■	40	GW-GM	ORGANICS				
									WELL-GRADED GRAVEL with SILT and SAND				
									-Dark brown, damp, loose				
									-5-10% Cobbles				
				★	◆	■	41	GW	WELL-GRADED GRAVEL with SAND				1
									-Lighter brown				
									-10-15% Cobbles, some boulders				
853													2
852													
851				★	◆	■	42	GP	POORLY GRADED GRAVEL with SAND				3
850													4
									END of HOLE				

GRAIN SIZE ANALYSIS	Duke River	SOURCE/TP#: 860-5213
Chuck's Exploration	km 1707	PROJECT NO: 552-202955-5311-1
CAT Excavator 120B	Coordinates:Z07V N6805258m E600604.9m	ELEVATION: 830.9m

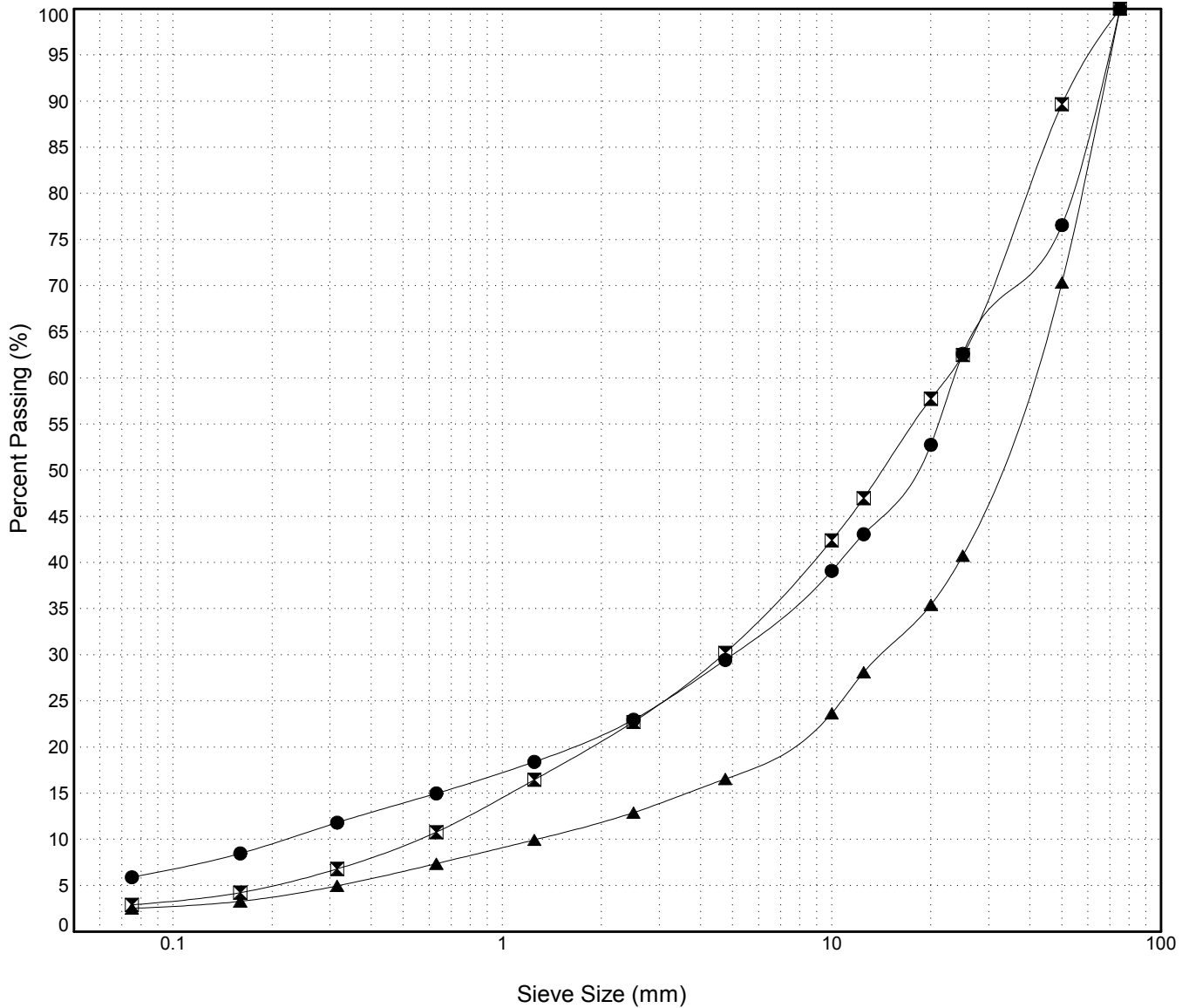
Master Revised July 2013

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 01	170	0.2 to 0.6	POORLY GRADED GRAVEL with SILT and SAND(GP-GM)	6.1	NP	NP	NP	4.8	108.1
☒ 02	171	1.2 to 1.6	WELL-GRADED GRAVEL with SAND(GW)	2.4	NP	NP	NP	1.8	40.5
▲ 03	172	3.6 to 4.0	POORLY GRADED GRAVEL(GP)	3.4	NP	NP	NP	4.0	31.0

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
● 01	170	100.0	100.0	76.6	62.6	52.8	43.1	39.1	29.4	23.0	18.4	15.0	11.8	8.5	5.9	70.6	23.5	5.9
☒ 02	171	100.0	100.0	89.7	62.5	57.8	47.0	42.4	30.2	22.7	16.5	10.8	6.8	4.2	2.9	69.8	27.3	2.9
▲ 03	172	100.0	100.0	70.4	40.7	35.4	28.1	23.7	16.5	12.9	9.9	7.4	5.0	3.3	2.5	83.5	14.0	2.5

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



GRAIN SIZE ANALYSIS	Duke River	SOURCE/TP#: 860-5214
Chuck's Exploration	km 1707	PROJECT NO: 552-202955-5311-1
CAT Excavator 120B	Coordinates:Z07V N6805208m E600584.1m	ELEVATION: 829.6m

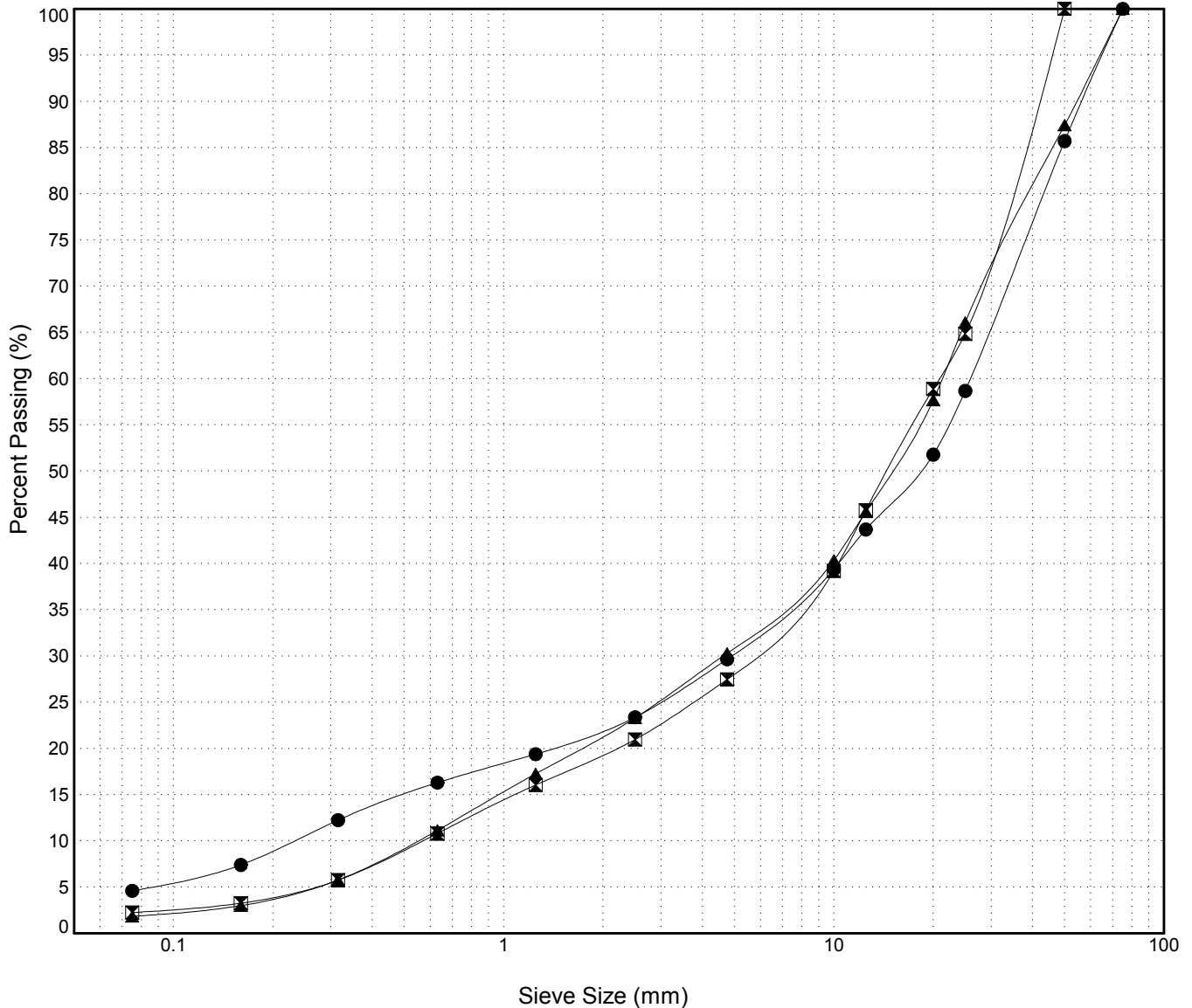
Master Revised July 2013

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 04	173	0.2 to 0.6	POORLY GRADED GRAVEL with SAND(GP)	4.8	NP	NP	NP	4.0	112.3
☒ 05	174	1.0 to 1.4	WELL-GRADED GRAVEL with SAND(GW)	2.6	NP	NP	NP	2.6	36.9
▲ 06	175	3.4 to 3.8	WELL-GRADED GRAVEL with SAND(GW)	2.7	NP	NP	NP	1.8	39.1

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
● 04	173	100.0	100.0	85.7	58.7	51.8	43.7	39.4	29.6	23.4	19.4	16.3	12.2	7.4	4.6	70.4	25.1	4.6		
☒ 05	174	100.0	100.0	100.0	64.9	58.9	45.8	39.2	27.5	21.0	16.0	10.8	5.7	3.3	2.2	72.5	25.2	2.2		
▲ 06	175	100.0	100.0	87.4	66.1	57.7	45.6	40.3	30.3	23.3	17.3	11.1	5.8	3.0	1.8	69.7	28.5	1.8		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



GRAIN SIZE ANALYSIS	Duke River	SOURCE/TP#: 860-5215
Chuck's Exploration	km 1707	PROJECT NO: 552-202955-5311-1
CAT Excavator 120B	Coordinates:Z07V N6805255m E600530.4m	ELEVATION: 840.3m

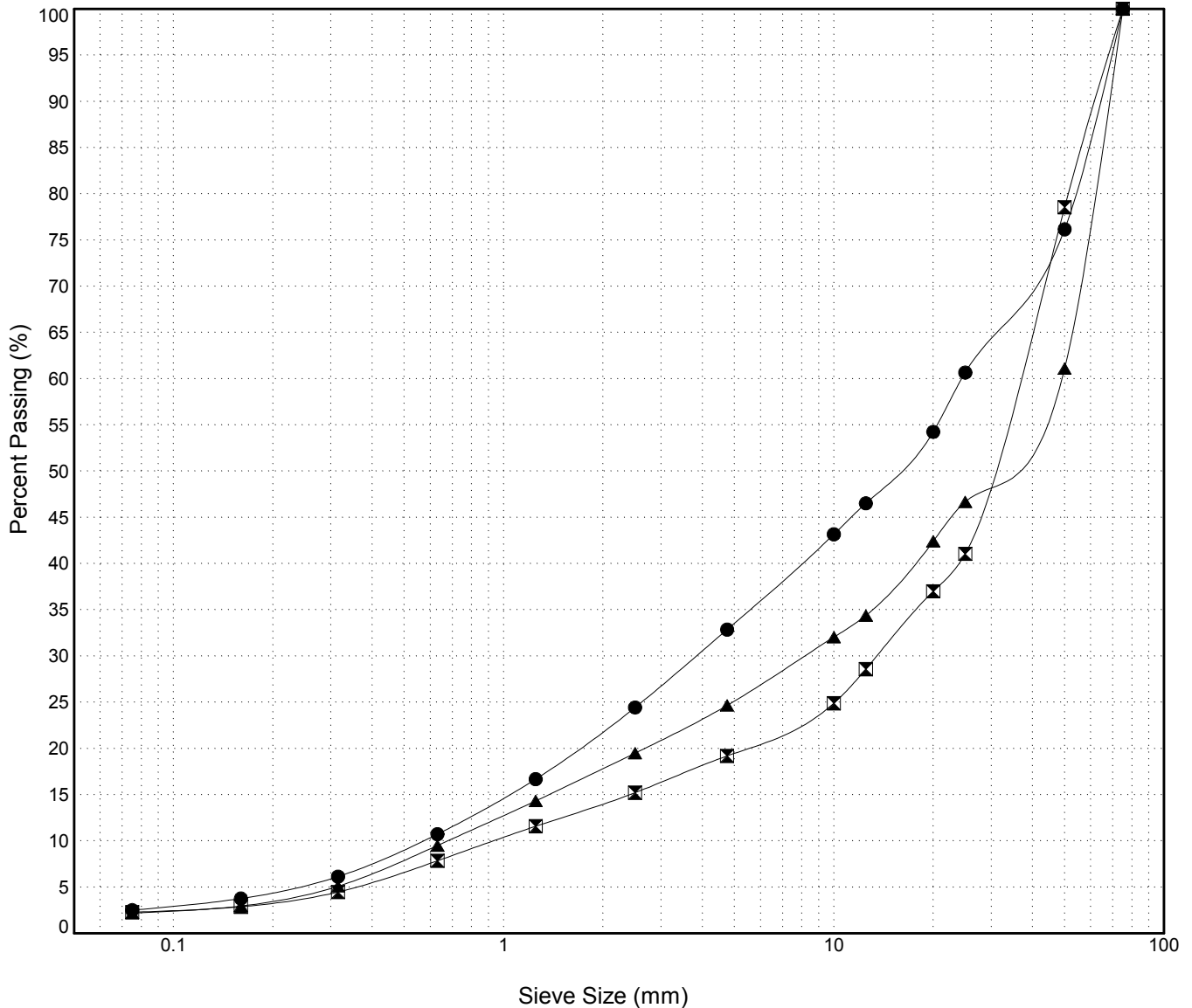
Master Revised July 2013

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 07	176	0.2 to 0.6	WELL-GRADED GRAVEL with SAND(GW)	2.8	NP	NP	NP	1.1	43.2
☒ 08	177	1.6 to 2.0	POORLY GRADED GRAVEL with SAND(GP)	2.2	NP	NP	NP	5.5	37.9
▲ 09	178	3.4 to 3.8	WELL-GRADED GRAVEL with SAND(GW)	1.8	NP	NP	NP	2.1	70.0

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
● 07	176	100.0	100.0	76.2	60.7	54.2	46.5	43.2	32.9	24.4	16.7	10.7	6.1	3.8	2.5	67.1	30.3	2.5	
☒ 08	177	100.0	100.0	78.5	41.0	37.0	28.6	24.9	19.2	15.2	11.6	7.8	4.5	2.9	2.3	80.8	16.9	2.3	
▲ 09	178	100.0	100.0	61.1	46.7	42.4	34.4	32.0	24.6	19.5	14.3	9.5	5.1	3.0	2.2	75.4	22.5	2.2	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



GRAIN SIZE ANALYSIS	Duke River	SOURCE/TP#: 860-5216
Chuck's Exploration	km 1707	PROJECT NO: 552-202955-5311-1
CAT Excavator 120B	Coordinates:Z07V N6805258m E600442.8m	ELEVATION: 542.6m

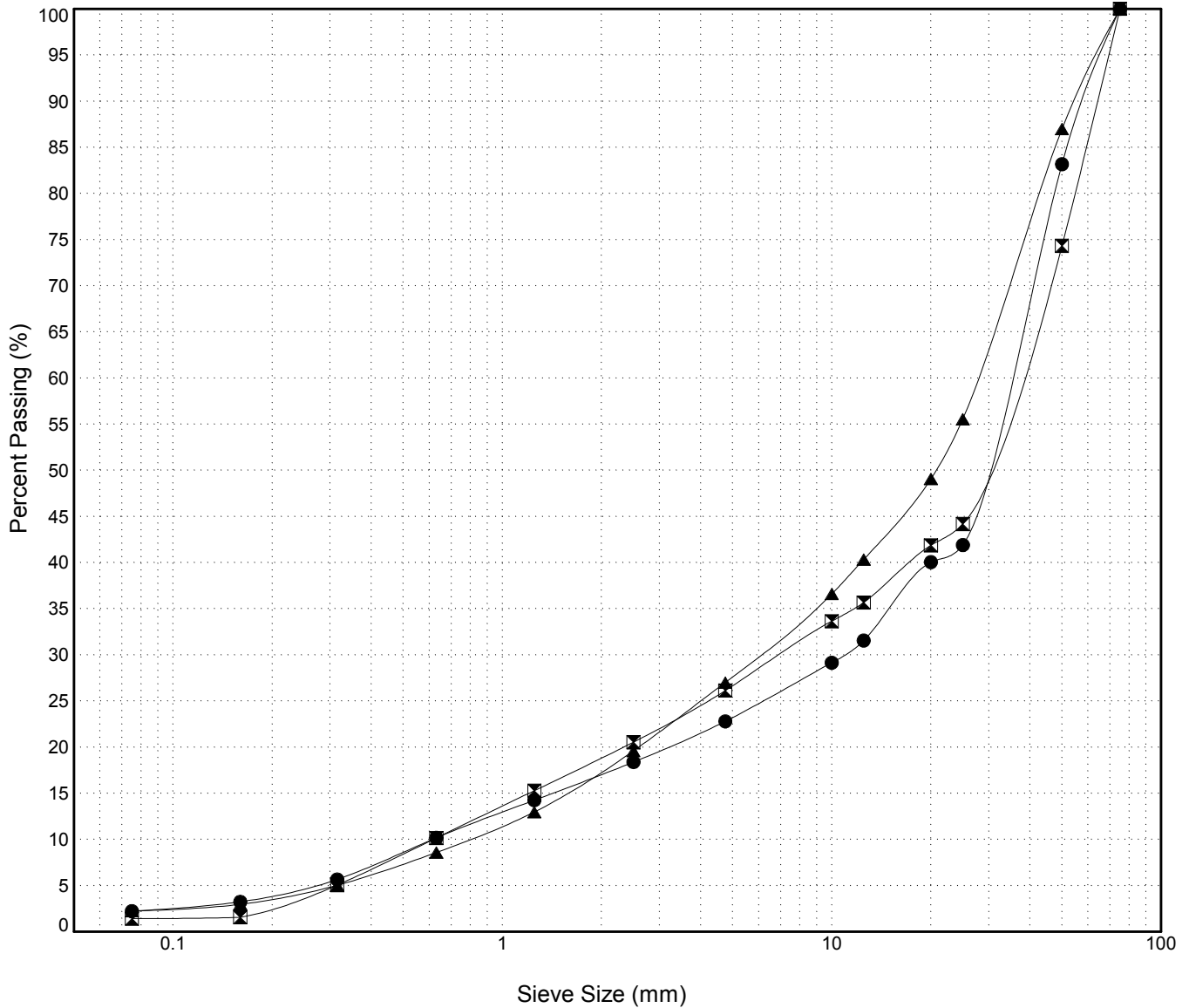
Master Revised July 2013

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 10	179	0.2 to 0.6	POORLY GRADED GRAVEL with SAND(GP)	2.6	NP	NP	NP	5.6	55.2
☒ 11	180	1.4 to 1.8	WELL-GRADED GRAVEL with SAND(GW)	2.1	NP	NP	NP	2.2	58.3
▲ 12	181	3.2 to 3.6	WELL-GRADED GRAVEL with SAND(GW)	2.3	NP	NP	NP	1.7	35.1

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
● 10	179	100.0	100.0	100.0	83.2	41.9	40.0	31.6	29.1	22.8	18.4	14.2	10.2	5.7	3.2	2.2	77.2	20.6	2.2
☒ 11	180	100.0	100.0	74.3	44.2	41.9	35.7	33.6	26.1	20.5	15.3	10.2	5.0	1.6	1.4	73.9	24.7	1.4	
▲ 12	181	100.0	100.0	87.0	55.5	49.1	40.3	36.6	27.0	19.6	13.0	8.6	5.0	3.0	2.2	73.0	24.8	2.2	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



GRAIN SIZE ANALYSIS	Duke River	SOURCE/TP#: 860-5217
Chuck's Exploration	km 1707	PROJECT NO: 552-202955-5311-1
CAT Excavator 120B	Coordinates:Z07V N6805341m E600447.1m	ELEVATION: 804.7m

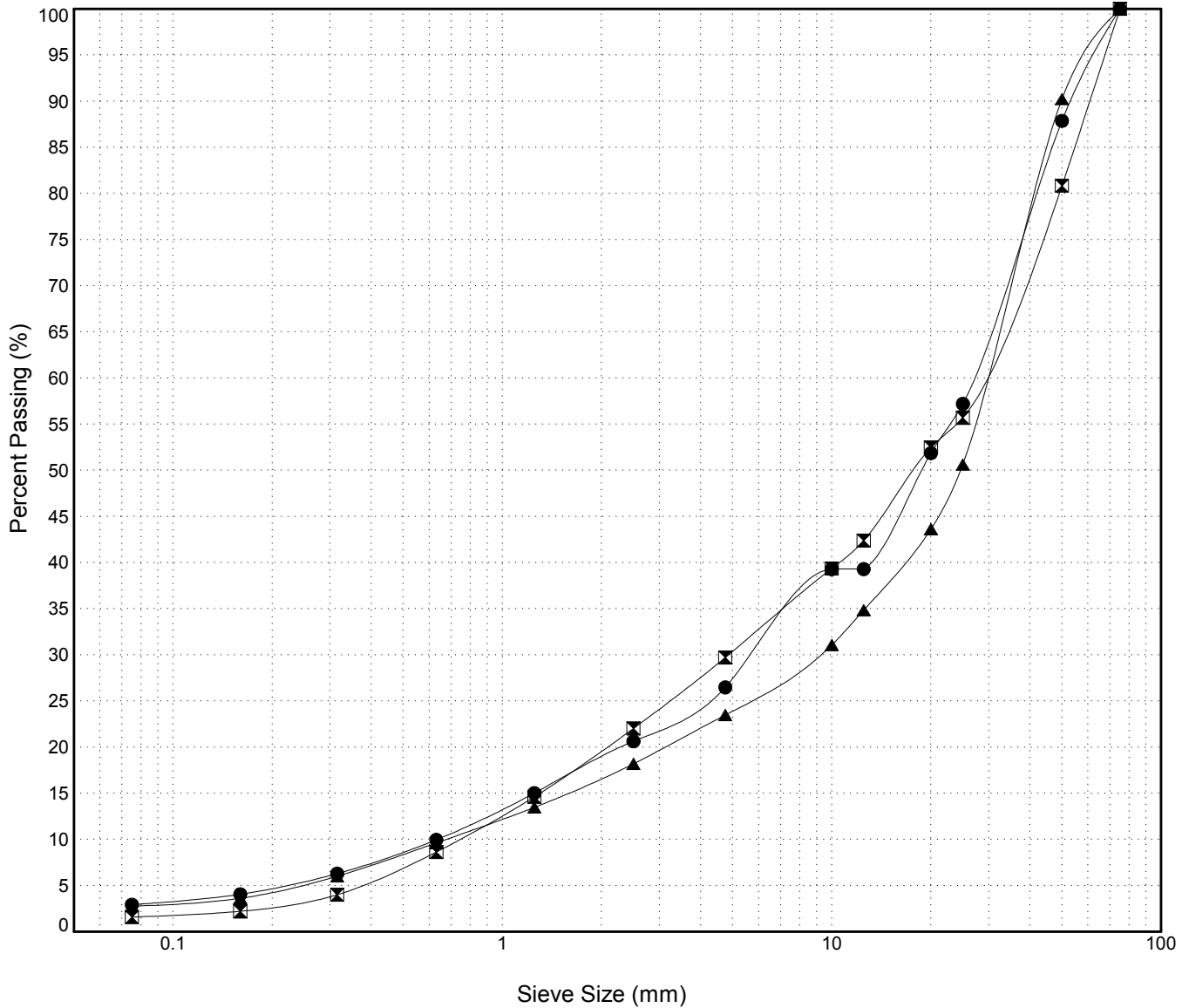
Master Revised July 2013

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 13	182	0.4 to 0.8	WELL-GRADED GRAVEL with SAND(GW)	1.6	NP	NP	NP	2.0	42.0
☒ 14	183	2.0 to 2.4	WELL-GRADED GRAVEL with SAND(GW)	1.4	NP	NP	NP	1.1	38.2
▲ 15	184	3.4 to 3.8	POORLY GRADED GRAVEL with SAND(GP)	2.6	NP	NP	NP	4.1	43.7

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
● 13	182	100.0	100.0	87.9	57.2	51.9	39.3	39.3	26.5	20.6	15.0	10.0	6.3	4.1	2.9	73.5	23.6	2.9	
☒ 14	183	100.0	100.0	80.8	55.7	52.5	42.4	39.4	29.7	22.0	14.6	8.6	4.0	2.2	1.6	70.3	28.1	1.6	
▲ 15	184	100.0	100.0	90.2	50.6	43.6	34.8	31.1	23.5	18.2	13.5	9.6	6.0	3.6	2.8	76.5	20.7	2.8	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



GRAIN SIZE ANALYSIS	Duke River	SOURCE/TP#: 860-5218
Chuck's Exploration	km 1707	PROJECT NO: 552-202955-5311-1
CAT Excavator 120B	Coordinates:Z07V N6805328m E600359m	ELEVATION: 838.7m

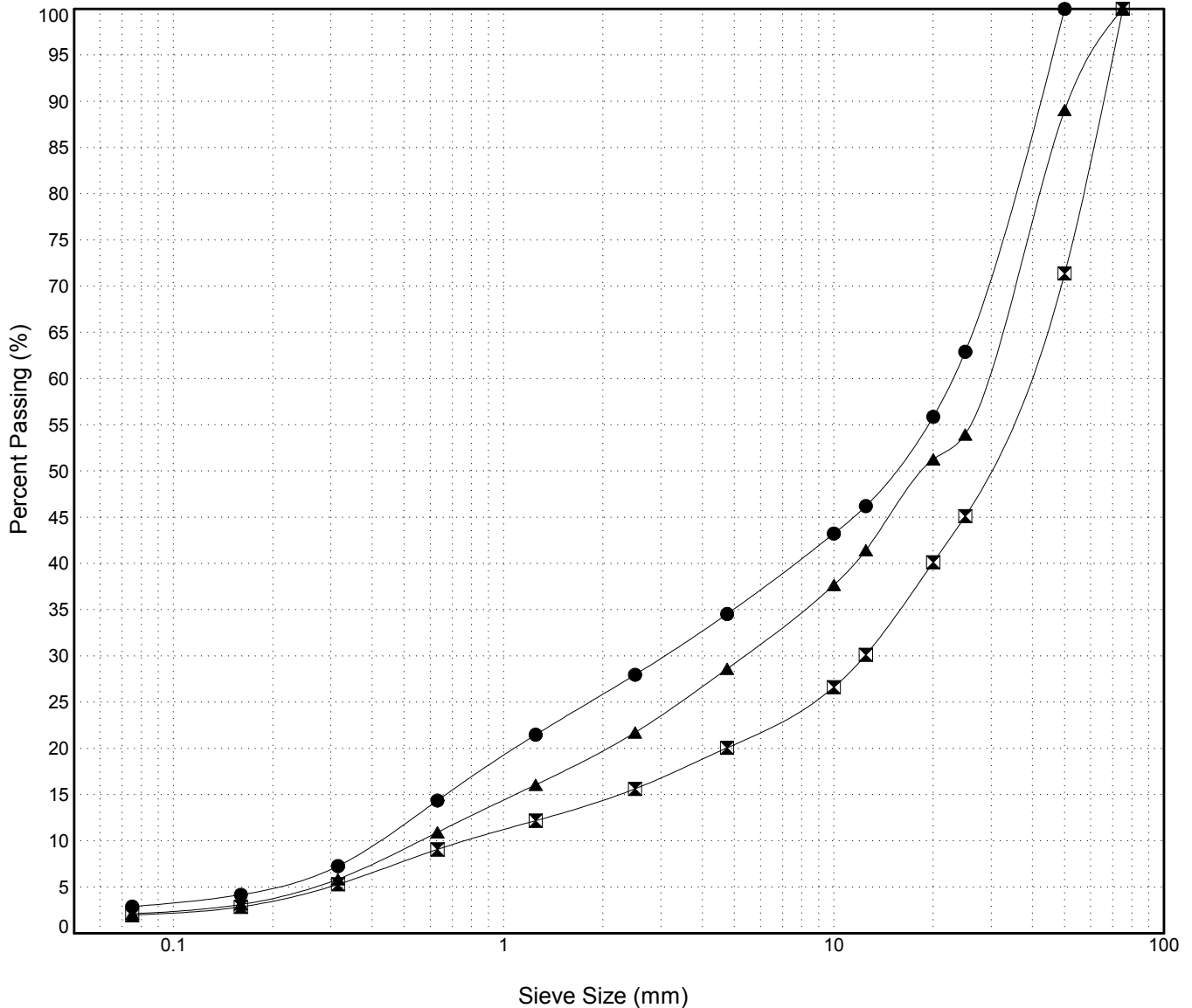
Master Revised July 2013

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 16	185	0.4 to 0.8	POORLY GRADED GRAVEL with SAND(GP)	4.2	NP	NP	NP	1.0	55.4
☒ 17	186	1.4 to 1.8	POORLY GRADED GRAVEL with SAND(GP)	3.0	NP	NP	NP	5.4	47.9
▲ 18	187	3.6 to 4.0	WELL-GRADED GRAVEL with SAND(GW)	2.8	NP	NP	NP	1.8	50.7

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
● 16	185	100.0	100.0	100.0	62.9	55.9	46.2	43.2	34.5	28.0	21.5	14.4	7.3	4.2	2.9	65.5	31.7	2.9	
☒ 17	186	100.0	100.0	71.4	45.1	40.1	30.1	26.6	20.1	15.6	12.2	9.1	5.3	2.9	2.0	79.9	18.1	2.0	
▲ 18	187	100.0	100.0	89.1	54.0	51.3	41.4	37.7	28.6	21.7	16.1	10.9	5.9	3.1	2.1	71.4	26.5	2.1	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



GRAIN SIZE ANALYSIS	Duke River	SOURCE/TP#: 860-5219
Chuck's Exploration	km 1707	PROJECT NO: 552-202955-5311-1
CAT Excavator 120B	Coordinates:Z07V N6805369m E600276.7m	ELEVATION: 841.5m

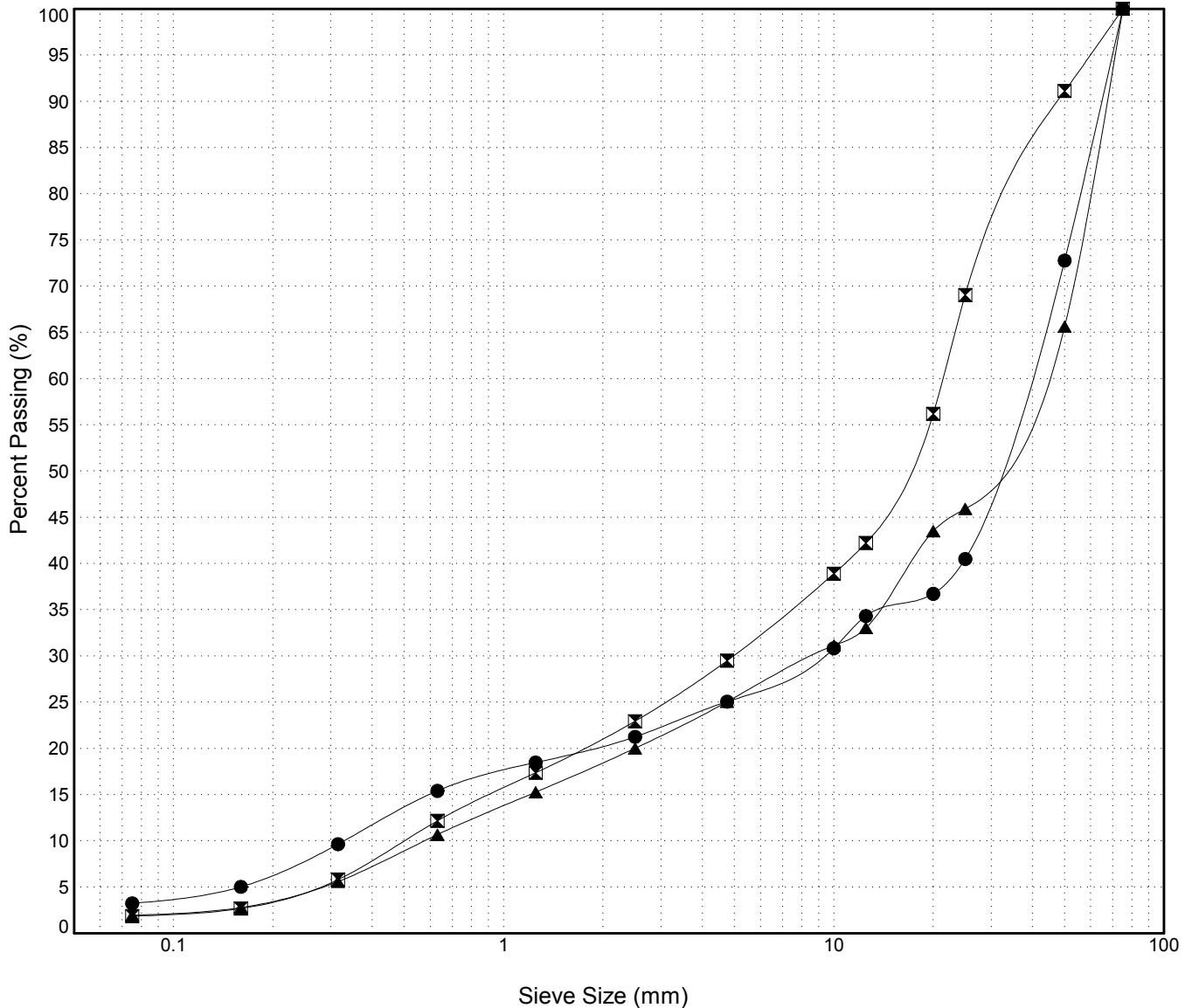
Master Revised July 2013

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 19	188	0.4 to 0.8	POORLY GRADED GRAVEL with SAND(GP)	5.5	NP	NP	NP	6.5	115.5
☒ 20	189	1.4 to 1.8	WELL-GRADED GRAVEL with SAND(GW)	2.2	NP	NP	NP	2.3	42.9
▲ 21	190	3.4 to 3.8	POORLY GRADED GRAVEL with SAND(GP)	2.5	NP	NP	NP	3.2	71.3

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
● 19	188	100.0	100.0	72.8	40.5	36.7	34.3	30.8	25.1	21.3	18.5	15.4	9.6	5.0	3.2	74.9	21.8	3.2	
☒ 20	189	100.0	100.0	91.1	69.0	56.2	42.2	38.9	29.5	22.9	17.4	12.2	5.8	2.7	1.9	70.5	27.6	1.9	
▲ 21	190	100.0	100.0	65.6	45.9	43.5	33.0	31.1	25.0	20.0	15.3	10.7	5.6	2.8	2.0	75.0	23.1	2.0	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



GRAIN SIZE ANALYSIS	Duke River	SOURCE/TP#: 860-5220
Chuck's Exploration	km 1707	PROJECT NO: 552-202955-5311-1
CAT Excavator 120B	Coordinates:Z07V N6805424m E600183.4m	ELEVATION: 846.5m

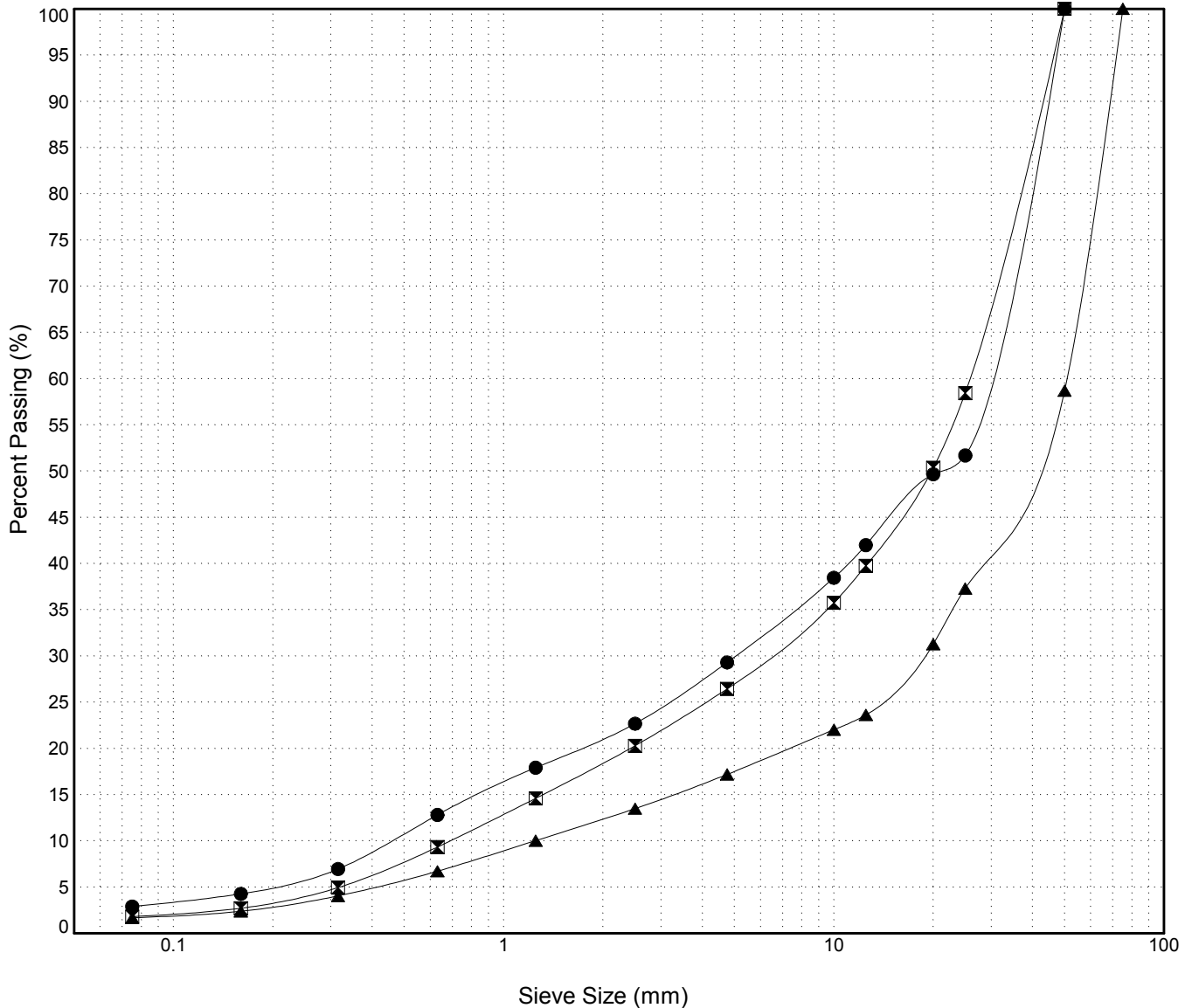
Master Revised July 2013

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 22	191	0.3 to 0.7	WELL-GRADED GRAVEL with SAND(GW)	4.7	NP	NP	NP	2.0	62.3
☒ 23	192	1.2 to 1.6	WELL-GRADED GRAVEL with SAND(GW)	2.7	NP	NP	NP	2.3	37.3
▲ 24	193	3.4 to 3.8	POORLY GRADED GRAVEL with SAND(GP)	2.5	NP	NP	NP	5.4	40.7

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
● 22	191	100.0	100.0	100.0	100.0	51.7	49.7	42.0	38.5	29.3	22.7	17.9	12.8	7.0	4.3	2.9	70.7	26.4	2.9
☒ 23	192	100.0	100.0	100.0	58.4	50.4	39.8	35.8	26.4	20.3	14.6	9.3	4.9	2.7	1.8	73.6	24.6	1.8	
▲ 24	193	100.0	100.0	58.7	37.3	31.3	23.6	22.0	17.2	13.5	10.0	6.7	4.0	2.4	1.7	82.8	15.5	1.7	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



GRAIN SIZE ANALYSIS	Duke River	SOURCE/TP#: 860-5221
Chuck's Exploration	km 1707	PROJECT NO: 552-202955-5311-1
CAT Excavator 120B	Coordinates:Z07V N6805497m E600182.6m	ELEVATION: 848.2m

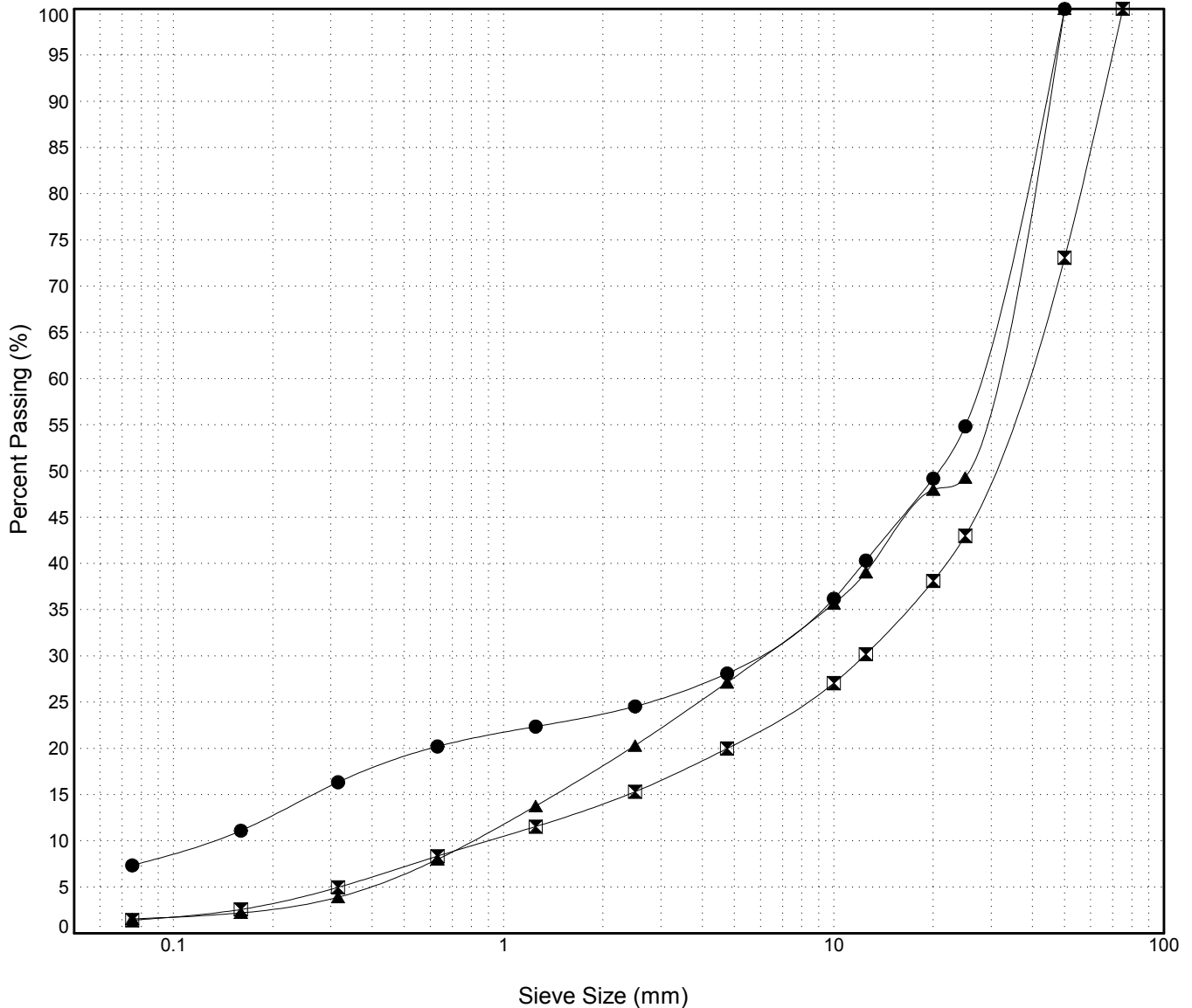
Master Revised July 2013

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 25	194	0.3 to 0.6	POORLY GRADED GRAVEL with SILT and SAND(GP-GM)	4.6	NP	NP	NP	9.2	211.2
☒ 26	195	1.2 to 1.6	POORLY GRADED GRAVEL with SAND(GP)	1.8	NP	NP	NP	4.6	41.2
▲ 27	196	3.4 to 3.8	WELL-GRADED GRAVEL with SAND(GW)	1.7	NP	NP	NP	1.6	36.2

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
● 25	194	100.0	100.0	100.0	100.0	54.8	49.2	40.3	36.2	28.1	24.5	22.4	20.2	16.3	11.1	7.3	71.9	20.8	7.3
☒ 26	195	100.0	100.0	73.1	43.0	38.1	30.2	27.1	20.0	15.3	11.5	8.3	5.0	2.6	1.4	80.0	18.6	1.4	
▲ 27	196	100.0	100.0	100.0	49.3	48.0	39.1	35.7	27.1	20.3	13.8	8.0	3.9	2.2	1.6	72.9	25.6	1.6	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



GRAIN SIZE ANALYSIS	Duke River	SOURCE/TP#: 860-5222
Chuck's Exploration	km 1707	PROJECT NO: 552-202955-5311-1
CAT Excavator 120B	Coordinates:Z07V N6805524m E600274.8m	ELEVATION: 849.4m

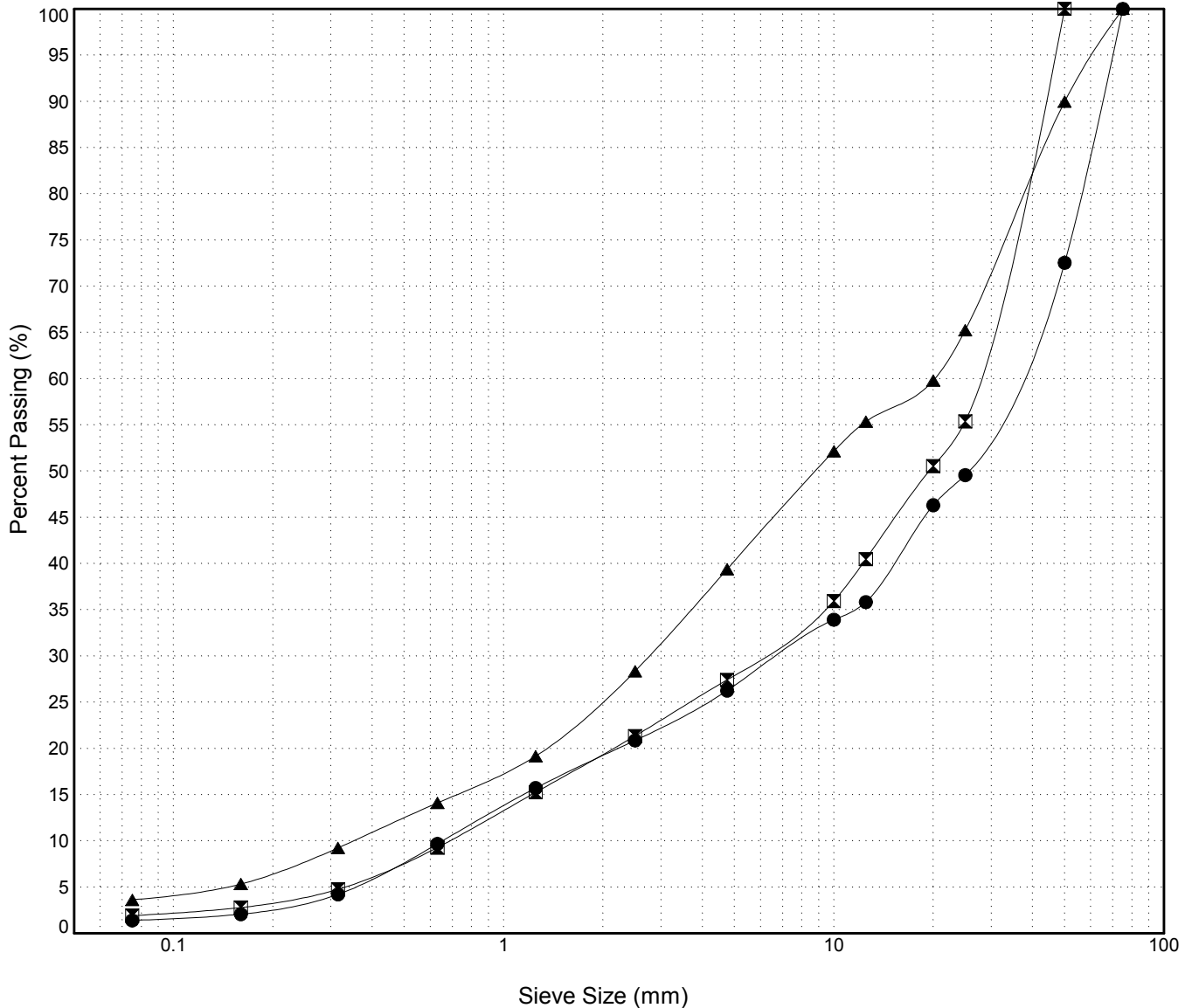
Master Revised July 2013

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 28	197	0.4 to 0.8	WELL-GRADED GRAVEL with SAND(GW)	1.7	NP	NP	NP	2.1	52.4
☒ 29	198	1.6 to 2.0	WELL-GRADED GRAVEL with SAND(GW)	1.7	NP	NP	NP	1.9	39.2
▲ 30	199	3.4 to 3.8	WELL-GRADED GRAVEL with SAND(GW)	2.9	NP	NP	NP	1.1	57.4

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
● 28	197	100.0	100.0	100.0	72.5	49.6	46.3	35.8	33.9	26.3	20.9	15.7	9.7	4.2	2.1	1.4	73.7	24.9	1.4	
☒ 29	198	100.0	100.0	100.0	55.4	50.5	40.5	35.9	27.4	21.3	15.3	9.3	4.8	2.8	1.9	72.6	25.5	1.9		
▲ 30	199	100.0	100.0	90.0	65.2	59.8	55.4	52.2	39.4	28.3	19.2	14.1	9.2	5.3	3.6	60.6	35.8	3.6		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



GRAIN SIZE ANALYSIS	Duke River	SOURCE/TP#: 860-5223
Chuck's Exploration	km 1707	PROJECT NO: 552-202955-5311-1
CAT Excavator 120B	Coordinates:Z07V N6805511m E600354.6m	ELEVATION: 848.9m

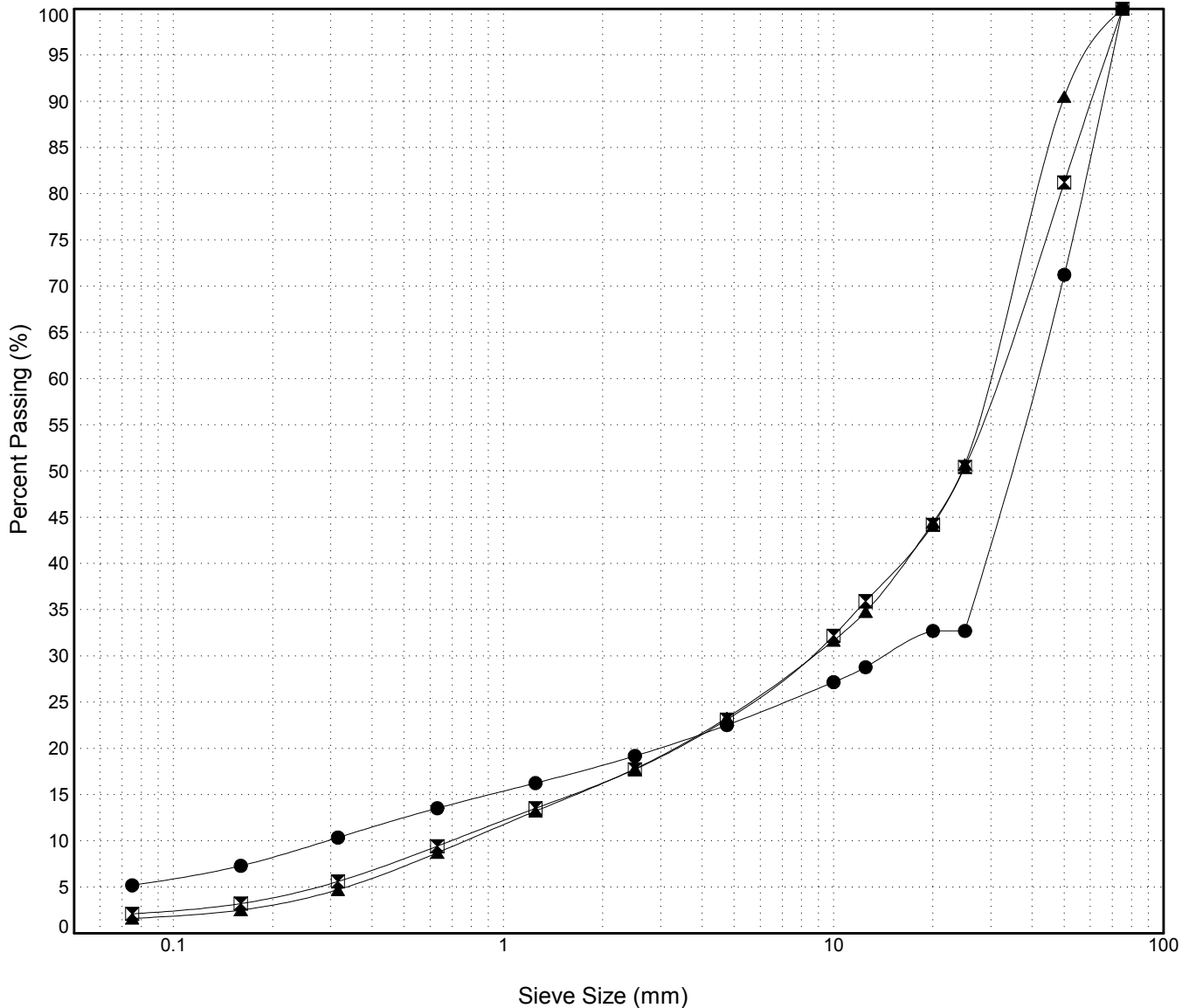
Master Revised July 2013

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 31	200	0.3 to 0.7	POORLY GRADED GRAVEL with SILT and SAND(GP-GM)	4.3	NP	NP	NP	17.6	140.4
☒ 32	201	2.2 to 2.6	POORLY GRADED GRAVEL with SAND(GP)	2.2	NP	NP	NP	3.2	44.7
▲ 33	202	3.2 to 3.6	POORLY GRADED GRAVEL with SAND(GP)	1.9	NP	NP	NP	3.3	38.3

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
● 31	200	100.0	100.0	71.2	32.7	32.7	28.8	27.2	22.5	19.2	16.2	13.5	10.4	7.3	5.2	77.5	17.3	5.2
☒ 32	201	100.0	100.0	81.2	50.4	44.2	35.9	32.2	23.1	17.7	13.5	9.4	5.6	3.2	2.1	76.9	21.0	2.1
▲ 33	202	100.0	100.0	90.5	50.7	44.4	34.8	31.7	23.3	17.8	13.2	8.7	4.7	2.5	1.6	76.7	21.7	1.6

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



GRAIN SIZE ANALYSIS	Duke River	SOURCE/TP#: 860-5224
Chuck's Exploration	km 1707	PROJECT NO: 552-202955-5311-1
CAT Excavator 120B	Coordinates:Z07V N6805440m E600444.4m	ELEVATION: 846.4m

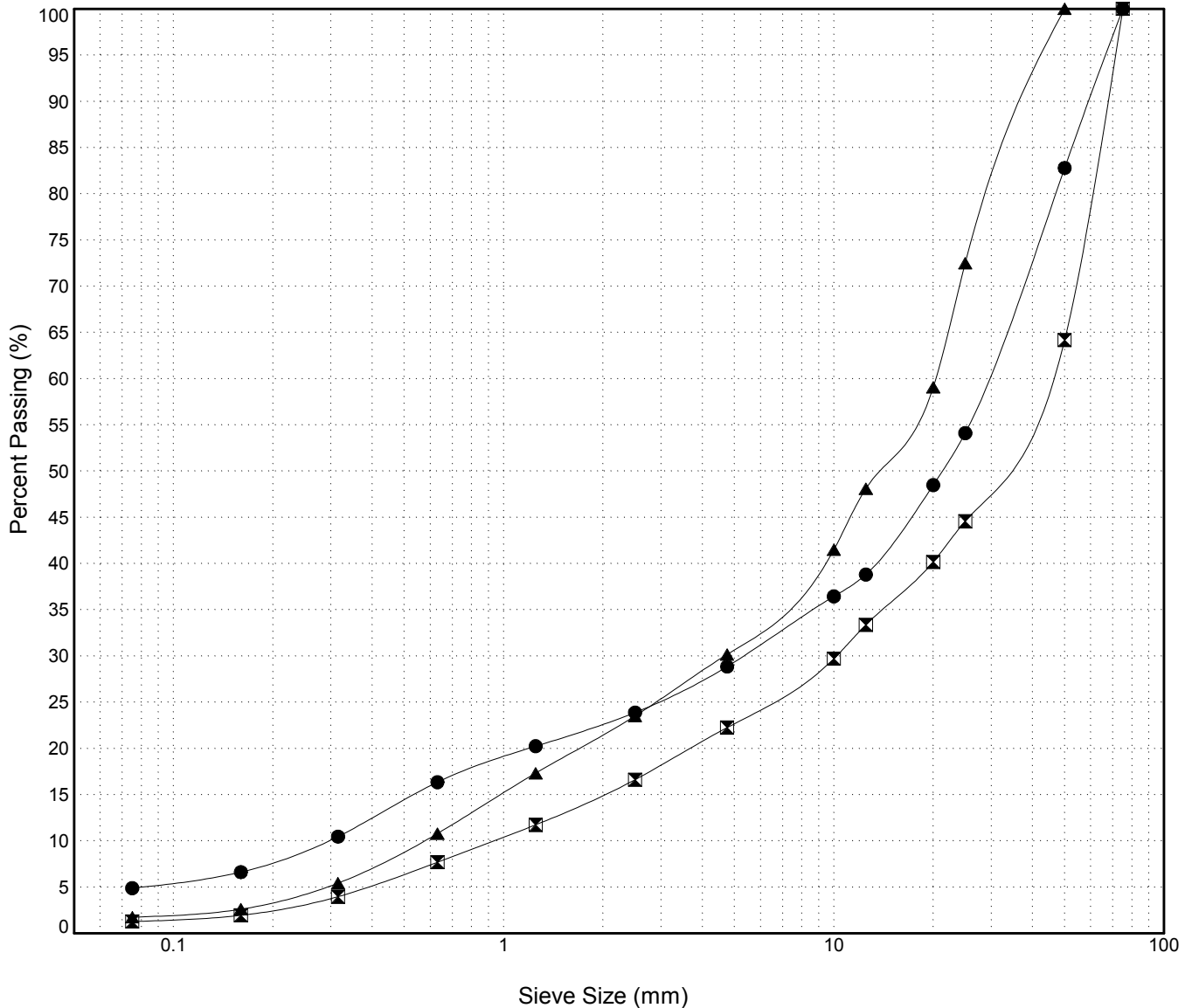
Master Revised July 2013

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 34	203	0.3 to 0.6	POORLY GRADED GRAVEL with SAND(GP)	3.8	NP	NP	NP	3.4	99.2
☒ 35	204	1.4 to 1.8	WELL-GRADED GRAVEL with SAND(GW)	1.7	NP	NP	NP	2.6	46.3
▲ 36	205	3.4 to 3.8	WELL-GRADED GRAVEL with SAND(GW)	1.8	NP	NP	NP	1.9	35.7

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
● 34	203	100.0	100.0	100.0	82.8	54.1	48.5	38.8	36.4	28.9	23.9	20.2	16.3	10.5	6.6	4.9	71.1	24.0	4.9	
☒ 35	204	100.0	100.0	64.2	44.6	40.2	33.4	29.7	22.3	16.6	11.7	7.7	4.0	1.9	1.3		77.7	21.0	1.3	
▲ 36	205	100.0	100.0	100.0	72.5	59.1	48.1	41.5	30.2	23.5	17.3	10.8	5.4	2.6	1.7		69.8	28.4	1.7	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



GRAIN SIZE ANALYSIS	Duke River	SOURCE/TP#: 860-5225
Chuck's Exploration	km 1707	PROJECT NO: 552-202955-5311-1
CAT Excavator 120B	Coordinates:Z07V N6805418m E600361.7m	ELEVATION: 850.4m

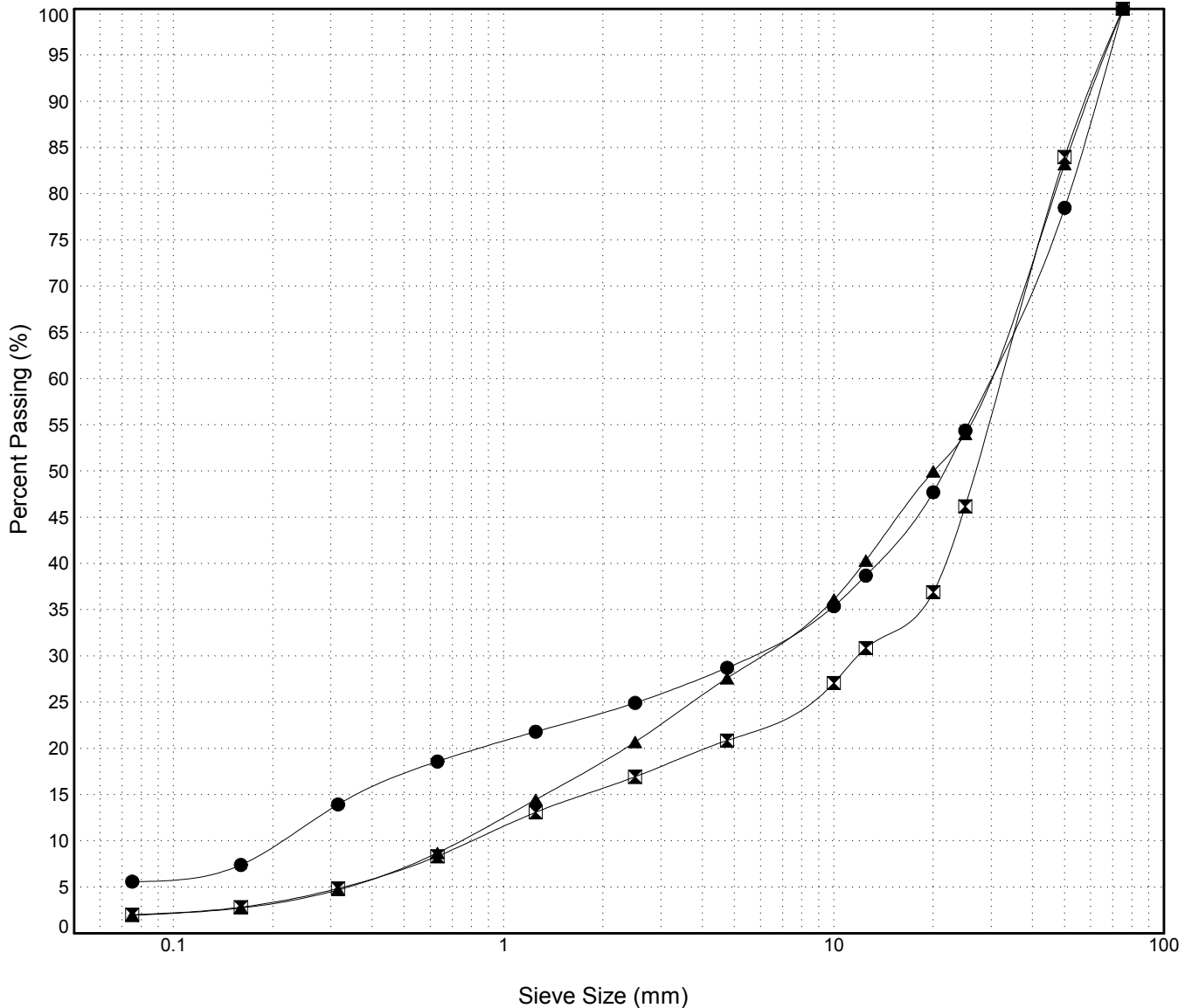
Master Revised July 2013

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 37	206	0.4 to 0.8	POORLY GRADED GRAVEL with SILT and SAND(GP-GM)	2.4	NP	NP	NP	4.9	140.3
☒ 38	207	2.0 to 2.4	POORLY GRADED GRAVEL with SAND(GP)	2.0	NP	NP	NP	5.5	40.2
▲ 39	208	3.4 to 3.8	WELL-GRADED GRAVEL with SAND(GW)	2.0	NP	NP	NP	1.6	39.2

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
● 37	206	100.0	100.0	78.5	54.4	47.7	38.7	35.4	28.7	24.9	21.8	18.6	13.9	7.4	5.6	71.3	23.1	5.6	
☒ 38	207	100.0	100.0	84.0	46.2	36.9	30.9	27.1	20.9	16.9	13.1	8.3	4.8	2.8	2.0	79.1	18.9	2.0	
▲ 39	208	100.0	100.0	83.2	54.0	50.0	40.3	36.1	27.6	20.7	14.5	8.7	4.7	2.7	2.0	72.4	25.6	2.0	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



GRAIN SIZE ANALYSIS	Duke River	SOURCE/TP#: 860-5226
Chuck's Exploration	km 1707	PROJECT NO: 552-202955-5311-1
CAT Excavator 120B	Coordinates:Z07V N6805446m E600279.5m	ELEVATION: 854.4m

Master Revised July 2013

Field #	Lab #	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 40	209	0.2 to 0.6	WELL-GRADED GRAVEL with SILT and SAND(GW-GM)	1.6	NP	NP	NP	2.9	240.3
☒ 41	210	0.6 to 1.0	WELL-GRADED GRAVEL with SAND(GW)	1.2	NP	NP	NP	1.4	31.6
▲ 42	211	3.4 to 3.8	POORLY GRADED GRAVEL with SAND(GP)	1.7	NP	NP	NP	5.0	27.1

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
● 40	209	100.0	100.0	100.0	60.1	56.0	44.5	41.3	34.2	29.4	25.6	21.8	17.1	11.9	8.6	65.8	25.6	8.6	
☒ 41	210	100.0	100.0	90.8	71.6	63.9	56.6	46.7	33.8	27.3	19.8	12.1	6.3	3.2	2.3	66.2	31.5	2.3	
▲ 42	211	100.0	100.0	74.4	44.2	35.0	26.0	22.8	16.4	12.8	9.7	6.7	3.6	1.6	1.0	83.6	15.4	1.0	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse

