

SUBSURFACE EXPLORATION AND TEST REPORT		Campbell # 4		SOURCE/TP#: 847-5068				
J.Magun Contracting		Campbell Hwy Exploration, km 73.8 RHS		PROJECT NO:				
Hitachi 200 LC		Coordinates: Z09V N6719257.3m E490832.3m		ELEVATION: m				
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-around;"> <div style="text-align: center;"> <p>PLASTIC</p> <p>M.C</p> <p>LIQUID</p> </div> <div style="text-align: center;"> <p>★ Percent Fines★</p> <p>◆ Percent Sand◆</p> <p>■ Percent Gravel■</p> </div> </div>		Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	<div style="display: flex; justify-content: space-between;"> 0 20 40 60 80 100 0 20 40 60 80 100 </div>							
			█	1	SP		ORGANICS	1
			█	2	SP-SM		POORLY GRADED SAND -Brown, damp, loose	2
			█	2	SP-SM		POORLY GRADED SAND with SILT -Brown, damp, loose	3
							END of HOLE	4
								5



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: G. Kennedy

Termination Depth: 4m

COMPILED BY: J.Hopkins

Complete: 10/28/2014 9:33:00 AM

REVIEWED BY: R.Stilwell

Pit #: 105A-56

Page 1 of 1

SUBSURFACE EXPLORATION AND TEST REPORT		Campbell # 4		SOURCE/TP#: 847-5069				
J.Magun Contracting		Campbell Hwy Exploration, km 73.8 RHS		PROJECT NO:				
Hitachi 200 LC		Coordinates: Z09V N6719266.3m E490885.5m		ELEVATION: m				
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-around;"> <div style="text-align: center;"> <p>PLASTIC</p> <p>M.C</p> <p>LIQUID</p> <p>0 20 40 60 80 100</p> </div> <div style="text-align: center;"> <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)
						ORGANICS		
				3	SM	SILTY SAND -Brown, damp, loose	1	
				4	SP	POORLY GRADED SAND with GRAVEL Greyish brown, damp, loose	2	
				5	GW	WELL-GRADED GRAVEL with SAND Brown, damp, compact	3	
						END of HOLE	4	
							5	



SUBSURFACE EXPLORATION AND TEST REPORT		Campbell # 4		SOURCE/TP#: 847-5070				
J.Magun Contracting		Campbell Hwy Exploration, km 73.8 RHS		PROJECT NO:				
Hitachi 200 LC		Coordinates: Z09V N6719278.7m E490935.4m		ELEVATION: m				
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 M.C LIQUID 0 20 40 60 80 100							
							ORGANICS	
							WELL-GRADED SAND -Brown, damp, loose	1
							SILTY SAND -Brownish grey, damp, loose	2
								3
								4
							END of HOLE	5



SUBSURFACE EXPLORATION AND TEST REPORT		Campbell # 4		SOURCE/TP#: 847-5071					
J.Magun Contracting		Campbell Hwy Exploration, km 73.8 RHS		PROJECT NO:					
Hitachi 200 LC		Coordinates: Z09V N6719310.8m E490973.5m		ELEVATION: m					
SAMPLE TYPE		<input type="checkbox"/> UNDISTURBED	<input type="checkbox"/> DCPT	<input type="checkbox"/> AUGER	<input type="checkbox"/> BULK				
		<input type="checkbox"/> SPT	<input type="checkbox"/> CORE						
ELEV. (m)		★ Percent Fines★		Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
		◆ Percent Sand◆							
	0 20 40 60 80 100	0 20 40 60 80 100							
								ORGANICS	
					8	SP		POORLY GRADED SAND -Light brown, damp, loose,	1
					9	SM		SILTY SAND -Brown, damp, loose	2
									3
									4
								END of HOLE	5
		Highways and Public Works Transportation Engineering Branch				LOGGED BY: G. Kennedy		Termination Depth: 4.2m	
						COMPILED BY: J Hopkins		Complete: 10/28/2014 11:28:00 AM	
						REVIEWED BY: R.Stilwell		Pit #: 105A-56 Page 1 of 1	

SUBSURFACE EXPLORATION AND TEST REPORT		Campbell # 4		SOURCE/TP#: 847-5072					
J.Magun Contracting		Campbell Hwy Exploration, km 73.8 RHS		PROJECT NO:					
Hitachi 200 LC		Coordinates: Z09V N6719327.6m E490918.6m		ELEVATION: m					
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: 30%;"> <p>PLASTIC M.C LIQUID</p> <p>0 20 40 60 80 100</p> </div> <div style="width: 30%;"> <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)
							ORGANICS		
							WELL-GRADED GRAVEL with SAND -Brown, damp, loose	1	
							POORLY GRADED GRAVEL with SAND -Brown, damp, compact -Some cobbles	2	
							POORLY GRADED GRAVEL with SAND -Brown, damp, compact -Some cobbles	3	
							END of HOLE	4	
								5	



SUBSURFACE EXPLORATION AND TEST REPORT		Campbell # 4		SOURCE/TP#: 847-5073				
J.Magun Contracting		Campbell Hwy Exploration, km 73.8 RHS		PROJECT NO:				
Hitachi 200 LC		Coordinates: Z09V N6719303.8m E490817.5m		ELEVATION: m				
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							
							ORGANICS	
							SILTY SAND -Brown, damp, loose	1
					13	SM		2
							WELL-GRADED GRAVEL with SAND -Brown, damp, compact -5-10% rock	3
					14	GW		4
							END of HOLE	5



SUBSURFACE EXPLORATION AND TEST REPORT		Campbell # 4		SOURCE/TP#: 847-5074				
J.Magun Contracting		Campbell Hwy Exploration, km 73.8 RHS		PROJECT NO:				
Hitachi 200 LC		Coordinates: Z09V N6719357.3m E490788.7m		ELEVATION: m				
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 M.C LIQUID 0 20 40 60 80 100							
							ORGANICS	
				15	ML		SILT with SAND -Brown, damp, loose	1
								2
				16	ML		SILT -Brown, damp, loose	3
								4
							END of HOLE	5




SUBSURFACE EXPLORATION AND TEST REPORT		Campbell # 4		SOURCE/TP#: 847-5075				
J.Magun Contracting		Campbell Hwy Exploration, km 73.8 RHS		PROJECT NO:				
Hitachi 200 LC		Coordinates: Z09V N6719368.6m E490840.4m		ELEVATION: m				
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>PLASTIC M.C LIQUID</p> <p>0 20 40 60 80 100</p> </div> <div style="text-align: center;"> <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)
						Organics		
						WELL-GRADED GRAVEL with SAND -Brown -Some cobbles	1	
						POORLY GRADED SAND -Grey, damp, compact -Some sand	2	
						POORLY GRADED SAND with SILT -Grey, damp, loose	3	
						END of HOLE	4	
							5	



SUBSURFACE EXPLORATION AND TEST REPORT		Campbell # 4		SOURCE/TP#: 847-5076				
J.Magun Contracting		Campbell Hwy Exploration, km 73.8 RHS		PROJECT NO:				
Hitachi 200 LC		Coordinates: Z09V N6719475.3m E490796.3m		ELEVATION: m				
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-around;"> <div style="text-align: center;"> <p>PLASTIC M.C LIQUID</p> <p>0 20 40 60 80 100</p> </div> <div style="text-align: center;"> <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)
						Organics		
						POORLY GRADED SAND with GRAVEL -Orange/brown, damp, compact -Some cobbles, odd boulder	1	
						WELL-GRADED GRAVEL with SAND -Brown, damp -Some cobbles, odd boulder	2	
						WELL-GRADED GRAVEL with SAND -Brown, damp, compact -Some cobbles	3	
						END of HOLE	4	
							5	



SUBSURFACE EXPLORATION AND TEST REPORT		Campbell # 4		SOURCE/TP#: 847-5077					
J.Magun Contracting		Campbell Hwy Exploration, km 73.8 RHS		PROJECT NO:					
Hitachi 200 LC		Coordinates: Z09V N6719465.4m E490850.6m		ELEVATION: m					
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)	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							
					23	GM		ORGANICS	
								SILTY GRAVEL with SAND -Tan, wet, compact -indent with thumb	1
									2
									3
									4
								END of HOLE	5
 Highways and Public Works Transportation Engineering Branch		LOGGED BY: G. Kennedy			Termination Depth: 3.4m				
		COMPILED BY: J Hopkins			Complete: 10/28/2014 3:01:00 PM				
		REVIEWED BY: R.Stilwell			Pit #: 105A-56 Page 1 of 1				

SUBSURFACE EXPLORATION AND TEST REPORT		Campbell # 4		SOURCE/TP#: 847-5078				
J.Magun Contracting		Campbell Hwy Exploration, km 73.8 RHS		PROJECT NO:				
Hitachi 200 LC		Coordinates: Z09V N6719391.7m E490883.4m		ELEVATION: m				
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							
							ORGANICS	
					24	GM	SILTY GRAVEL with SAND -Orange/brown, damp	
					25	SM	SILTY SAND -Greyish brown, damp, compact	1
					26	GW-GM	WELL-GRADED GRAVEL with SILT and SAND -Grey, damp, compact	3
							END of HOLE	4
								5



SUBSURFACE EXPLORATION AND TEST REPORT		Campbell # 4		SOURCE/TP#: 847-5079					
J.Magun Contracting		Campbell Hwy Exploration, km 73.8 RHS		PROJECT NO:					
Hitachi 200 LC		Coordinates: Z09V N6719370m E490951.2m		ELEVATION: m					
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	★ Percent Fines ★ ◆ Percent Sand ◆ ■ Percent Gravel ■		Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
					27	SP-SM		ORGANICS	
					28	GW		POORLY GRADED SAND with SILT Orange/brown, damp, loose	1
					29	SP-SM		WELL-GRADED GRAVEL with SAND -Greyish brown, damp, compact -Some cobbles	2
								POORLY GRADED SAND with SILT -Grey, damp, loose	3
								END of HOLE	4
									5
		Highways and Public Works Transportation Engineering Branch				LOGGED BY: G. Kennedy		Termination Depth: 4m	
						COMPILED BY: J Hopkins		Complete: 10/28/2014 4:07:00 PM	
						REVIEWED BY: R.Stilwell		Pit #: 105A-56 Page 1 of 1	

SUBSURFACE EXPLORATION AND TEST REPORT		Campbell # 4		SOURCE/TP#: 847-5080					
J.Magun Contracting		Campbell Hwy Exploration, km 73.8 RHS		PROJECT NO:					
Hitachi 200 LC		Coordinates: Z09V N6719406.6m E491014m		ELEVATION: m					
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)	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)
								ORGANICS	
					30	SP		POORLY GRADED SAND -Brown, damp, loose	1
					31	SP		POORLY GRADED SAND -Greyish brown, damp, loose	3
								END of HOLE	4
									5
		Highways and Public Works Transportation Engineering Branch				LOGGED BY: G. Kennedy		Termination Depth: 4m	
						COMPILED BY: J.Hopkins		Complete: 10/28/2014 4:41:00 PM	
						REVIEWED BY: R.Stilwell		Pit #: 105A-56 Page 1 of 1	

SUBSURFACE EXPLORATION AND TEST REPORT		Campbell # 4		SOURCE/TP#: 847-5081				
J.Magun Contracting		Campbell Hwy Exploration, km 73.8 RHS		PROJECT NO:				
Hitachi 200 LC		Coordinates: Z09V N6719451.9m E491042.1m		ELEVATION: m				
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 M.C LIQUID 0 20 40 60 80 100							
							ORGANICS	
							POORLY GRADED SAND -Brown, damp, loose	1
								2
							POORLY GRADED SAND with GRAVEL -Brown, damp, loose	3
							END of HOLE	4
								5



SUBSURFACE EXPLORATION AND TEST REPORT		Campbell # 4		SOURCE/TP#: 847-5082					
J.Magun Contracting		Campbell Hwy Exploration, km 73.8 RHS		PROJECT NO:					
Hitachi 200 LC		Coordinates: Z09V N6719345.5m E491109.3m		ELEVATION: m					
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★		Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
		◆ Percent Sand◆							
		0 20 40 60 80 100		0 20 40 60 80 100					
		●		●				Organics	
		●		●				POORLY GRADED SAND -Orange/brown, damp, loose	1
		●		●					2
		●		●				POORLY GRADED SAND with GRAVEL -Greyish brown, damp, loose	3
		●		●				END of HOLE	4
		●		●					5
		Highways and Public Works Transportation Engineering Branch				LOGGED BY: G. Kennedy		Termination Depth: 3.8m	
						COMPILED BY: J.Hopkins		Complete: 10/28/2014 5:53:00 PM	
						REVIEWED BY: R.Stilwell		Pit #: 105A-56 Page 1 of 1	

SUBSURFACE EXPLORATION AND TEST REPORT		Campbell # 4		SOURCE/TP#: 847-5083				
J.Magun Contracting		Campbell Hwy Exploration, km 73.8 RHS		PROJECT NO:				
Hitachi 200 LC		Coordinates: Z09V N6719366.3m E491247.3m		ELEVATION: m				
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							
							Organics	
							POORLY GRADED SAND with GRAVEL -Orange/brown, damp, loose	1
					36	SP		2
							POORLY GRADED GRAVEL with SAND -Brown, damp	3
					37	GP		4
							END of HOLE	5



SUBSURFACE EXPLORATION AND TEST REPORT		Campbell # 4		SOURCE/TP#: 847-5084				
J.Magun Contracting		Campbell Hwy Exploration, km 73.8 RHS		PROJECT NO:				
Hitachi 200 LC		Coordinates: Z09V N6719415m E491180.1m		ELEVATION: m				
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							
							ORGANICS	
							POORLY GRADED SAND -Orange/brown, damp, loose	1
							POORLY GRADED SAND with GRAVEL -Grey, damp, loose	2
							POORLY GRADED SAND with GRAVEL -Brown, damp, loose	3
							SILTY SAND -Grey, damp, loose	4
							END of HOLE	5



SUBSURFACE EXPLORATION AND TEST REPORT		Campbell # 4		SOURCE/TP#: 847-5085				
J.Magun Contracting		Campbell Hwy Exploration, km 73.8 RHS		PROJECT NO:				
Hitachi 200 LC		Coordinates: Z09V N6719454.6m E491130.8m		ELEVATION: m				
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 M.C LIQUID 0 20 40 60 80 100							
							ORGANICS	
							POORLY GRADED SAND -Orange/brown, damp, loose	1
					42	SP		2
							WELL-GRADED SAND with SILT and GRAVEL(SW-SM) -Greyish brown, damp, loose	3
					43	SW-SM		4
							END of HOLE	5



SUBSURFACE EXPLORATION AND TEST REPORT		Campbell # 4		SOURCE/TP#: 847-5086				
J.Magun Contracting		Campbell Hwy Exploration, km 73.8 RHS		PROJECT NO:				
Hitachi 200 LC		Coordinates: Z09V N6719449.7m E491262.4m		ELEVATION: m				
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 M.C LIQUID 0 20 40 60 80 100							
							ORGANICS	
					44	SP-SM	POORLY GRADED SAND with SILT and GRAVEL -Orange/brown, damp, loose	1
								2
					45	SP	POORLY GRADED SAND with GRAVEL -Greyish brown, damp, loose	3
							END of HOLE	4
								5



SUBSURFACE EXPLORATION AND TEST REPORT		Campbell # 4		SOURCE/TP#: 847-5087									
J.Magun Contracting		Campbell Hwy Exploration, km 73.8 RHS		PROJECT NO:									
Hitachi 200 LC		Coordinates: Z09V N6719474m E491356.1m		ELEVATION: m									
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
									ORGANICS				
						46	GP		POORLY GRADED GRAVEL with SAND -Brown/orange, damp, compact -Some cobbles		1		
						47	GP		POORLY GRADED GRAVEL with SAND -Greyish brown, damp		2		
						48	SP		POORLY GRADED SAND -Grey, damp, loose		3		
									END of HOLE		4		
											5		



SUBSURFACE EXPLORATION AND TEST REPORT		Campbell # 4		SOURCE/TP#: 847-5088				
J.Magun Contracting		Campbell Hwy Exploration, km 73.8 RHS		PROJECT NO:				
Hitachi 200 LC		Coordinates: Z09V N6719410.9m E491334.6m		ELEVATION: m				
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-around;"> <div style="text-align: center;"> <p>PLASTIC M.C LIQUID</p> <p>0 20 40 60 80 100</p> </div> <div style="text-align: center;"> <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)
						Organics		
				49	GP	POORLY GRADED GRAVEL with SAND -Orange/brown, damp, compact -Some cobbles	1	
				50	SP	POORLY GRADED SAND with GRAVEL -Brown/orange, damp, compact -Some cobbles	2	
				51	SP	POORLY GRADED SAND with GRAVEL -Greyish brown, damp, compact	3	
						END of HOLE	4	
							5	



SUBSURFACE EXPLORATION AND TEST REPORT		Campbell # 4		SOURCE/TP#: 847-5089				
J.Magun Contracting		Campbell Hwy Exploration, km 73.8 RHS		PROJECT NO:				
Hitachi 200 LC		Coordinates: Z09V N6719539m E491275.2m		ELEVATION: m				
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-around;"> <div style="text-align: center;"> <p>PLASTIC M.C LIQUID</p> <p>0 20 40 60 80 100</p> </div> <div style="text-align: center;"> <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)
						Organics		
						POORLY GRADED SAND with SILT -Orange/brown, damp, compact	1	
						POORLY GRADED SAND with SILT(SP-SM) -Brown, damp, compact	2	
							3	
						END of HOLE	4	
							5	



SUBSURFACE EXPLORATION AND TEST REPORT		Campbell # 4		SOURCE/TP#: 847-5091				
J.Magun Contracting		Campbell Hwy Exploration, km 73.8 RHS		PROJECT NO:				
Hitachi 200 LC		Coordinates: Z09V N6719616.2m E491462.2m		ELEVATION: m				
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)
						Organics		
						POORLY GRADED GRAVEL with SAND -Orange/brown, damp, compact -Some cobbles, some boulders	1	
						POORLY GRADED SAND -Greyish brown, damp, loose	2	
						POORLY GRADED GRAVEL with SAND -Brown, damp, compact -Some cobbles and boulders	3	
						END of HOLE	4	
							5	



SUBSURFACE EXPLORATION AND TEST REPORT		Campbell # 4		SOURCE/TP#: 847-5092				
J.Magun Contracting		Campbell Hwy Exploration, km 73.8 RHS		PROJECT NO:				
Hitachi 200 LC		Coordinates: Z09V N6719613.8m E491370.7m		ELEVATION: m				
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>PLASTIC M.C LIQUID</p> <p>0 20 40 60 80 100</p> </div> <div style="text-align: center;"> <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)
						Organics		
						SILTY SAND -Orange/brown, damp, loose	1	
						WELL-GRADED SAND with SILT and GRAVEL -Brown -Some cobbles and boulders	2	
						POORLY GRADED GRAVEL with SAND -Brown, damp, compact -Some cobbles	4	
						END of HOLE	5	



SUBSURFACE EXPLORATION AND TEST REPORT		Campbell # 4		SOURCE/TP#: 848-5093				
J.Magun Contracting		Campbell Hwy Exploration, km 73.8 RHS		PROJECT NO:				
Hitachi 200 LC		Coordinates: Z09V N6719700.7m E491463.2m		ELEVATION: m				
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)
						Organics		
						POORLY GRADED GRAVEL with SAND -Orange/brown, damp, compact -25-30% cobbles and boulders	1	
							2	
						POORLY GRADED GRAVEL with SAND -Orange/brown, damp, compact -25-30% of cobbles and boulders	3	
							4	
						END of HOLE	5	



SUBSURFACE EXPLORATION AND TEST REPORT		Campbell # 4		SOURCE/TP#: 848-5094				
J.Magun Contracting		Campbell Hwy Exploration, km 73.8 RHS		PROJECT NO:				
Hitachi 200 LC		Coordinates: Z09V N6719702.5m E491377.4m		ELEVATION: m				
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-around;"> <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</p> <p>M.C</p> <p>LIQUID</p> </div> </div>		Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	<div style="display: flex; justify-content: space-between;"> 0 20 40 60 80 100 0 20 40 60 80 100 </div>							
				65	SW-SM		Organics WELL-GRADED SAND with SILT and GRAVEL -Orange/brown, damp -Odd cobble	1
								2
				66	SP-SM		POORLY GRADED SAND with SILT and GRAVEL -Brown, damp -Odd cobble	3
							END of HOLE	4
								5



SUBSURFACE EXPLORATION AND TEST REPORT		Campbell # 4		SOURCE/TP#: 848-5095				
J.Magun Contracting		Campbell Hwy Exploration, km 73.8 RHS		PROJECT NO:				
Hitachi 200 LC		Coordinates: Z09V N6719871.3m E491465.1m		ELEVATION: m				
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-around;"> <div style="text-align: center;"> <p>PLASTIC</p> <p>M.C</p> <p>LIQUID</p> </div> <div style="text-align: center;"> <p>★ Percent Fines★</p> <p>◆ Percent Sand◆</p> <p>■ Percent Gravel■</p> </div> </div>		Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>0 20 40 60 80 100</p> </div> <div style="text-align: center;"> <p>0 20 40 60 80 100</p> </div> </div>							
			[Hatched Box]				Organics	
			[Hatched Box]	67	SM		SILTY SAND -Orange/brown, damp, loose	
			[Hatched Box]	68	SP-SM		POORLY GRADED SAND with SILT and GRAVEL -Brown, damp, compact	1
			[Hatched Box]					2
			[Hatched Box]	69	SW		WELL-GRADED SAND with GRAVEL -Brown, damp, compact	3
			[Hatched Box]					4
			[Hatched Box]				END of HOLE	
			[Hatched Box]					5



SUBSURFACE EXPLORATION AND TEST REPORT		Campbell # 4		SOURCE/TP#: 848-5096					
J.Magun Contracting		Campbell Hwy Exploration, km 73.8 RHS		PROJECT NO:					
Hitachi 200 LC		Coordinates: Z09V N6719941.7m E491465.9m		ELEVATION: m					
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 M.C LIQUID 0 20 40 60 80 100								
								Organics	
								WELL-GRADED GRAVEL with SAND -Orange/brown, damp, compact	1
								WELL-GRADED GRAVEL with SAND -Brown, damp, compact	2
								POORLY GRADED GRAVEL with SAND -Greyish brown, damp, compact -Odd boulder	4
								END of HOLE	5



SUBSURFACE EXPLORATION AND TEST REPORT		Campbell # 4		SOURCE/TP#: 848-5097					
J.Magun Contracting		Campbell Hwy Exploration, km 73.8 RHS		PROJECT NO:					
Hitachi 200 LC		Coordinates: Z09V N6720026.3m E491452m		ELEVATION: m					
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								
								Organics	
					73	GW		WELL-GRADED GRAVEL with SAND -Orange/brown, damp, compact	1
					74	GW		WELL-GRADED GRAVEL with SAND -Brown, damp, compact -Some cobbles, odd boulder	2
					75	SP		POORLY GRADED SAND with GRAVEL -Brown, damp, compact -Some cobbles, odd boulder	3
								END of HOLE	4
									5



SUBSURFACE EXPLORATION AND TEST REPORT		Campbell # 4		SOURCE/TP#: 848-5098					
J.Magun Contracting		Campbell Hwy Exploration, km 73.8 RHS		PROJECT NO:					
Hitachi 200 LC		Coordinates: Z09V N6720122.3m E491455.9m		ELEVATION: m					
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: 30%;"> <p>PLASTIC M.C LIQUID</p> <p>0 20 40 60 80 100</p> </div> <div style="width: 30%;"> <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)
								Organics	
					76	GW		WELL-GRADED GRAVEL with SAND -Orange/brown, damp, compact -Lots of cobbles and boulders	1
					77	GW-GM		WELL-GRADED GRAVEL with SILT and SAND -Brown, damp, compact -Some cobbles and odd boulder	2
					78	GP		POORLY GRADED GRAVEL with SAND -Greyish brown, damp, compact -Some cobbles	3
								END of HOLE	4
									5



SUBSURFACE EXPLORATION AND TEST REPORT		Campbell # 4		SOURCE/TP#: 848-5099			
J.Magun Contracting		Campbell Hwy Exploration, km 73.8 RHS		PROJECT NO:			
Hitachi 200 LC		Coordinates: Z09V N6720122.6m E491379.7m		ELEVATION: m			
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)		★ Percent Fines★ ◆ Percent Sand◆ ■ Percent Gravel■		Sample Type Sample # SOIL SYMBOL DCPT/SPT Blows/30cm	SOIL DESCRIPTION Depth (m)		
				79	SP-SM	Organics POORLY GRADED SAND with SILT and GRAVEL -Orange/brown, damp, compact -Some cobbles	1
				80	SP	POORLY GRADED SAND with GRAVEL -Brown, damp, compact	2
				81	SP	POORLY GRADED SAND -Brown, damp, loose	3
						END of HOLE	4
							5
		Highways and Public Works Transportation Engineering Branch		LOGGED BY: G. Kennedy		Termination Depth: 4m	
				COMPILED BY: J.Hopkins		Complete: 10/31/2014 5:04:00 PM	
				REVIEWED BY: R.Stilwell		Pit #: 105A-56	

SUBSURFACE EXPLORATION AND TEST REPORT		Campbell # 4		SOURCE/TP#: 848-5100				
J.Magun Contracting		Campbell Hwy Exploration, km 73.8 RHS		PROJECT NO:				
Hitachi 200 LC		Coordinates: Z09V N6720216m E491432.6m		ELEVATION: m				
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 M.C LIQUID 0 20 40 60 80 100							
							Organics	
					82	SW-SM	WELL-GRADED SAND with SILT and GRAVEL -Orange/brown, damp, compact -Some boulders	1
					83	SP	POORLY GRADED SAND with GRAVEL -Brown, damp, compact -Some boulders	2
					84	SP	POORLY GRADED SAND with GRAVEL -Greyish brown, damp, loose -Some cobbles	3
							END of HOLE	4
								5



SUBSURFACE EXPLORATION AND TEST REPORT		Campbell # 4		SOURCE/TP#: 848-5102				
J.Magun Contracting		Campbell Hwy Exploration, km 73.8 RHS		PROJECT NO:				
Hitachi 200 LC		Coordinates: Z09V N6720337.9m E491421.1m		ELEVATION: m				
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-around;"> <div style="text-align: center;"> <p>PLASTIC</p> <p>M.C</p> <p>LIQUID</p> <p>0 20 40 60 80 100</p> </div> <div style="text-align: center;"> <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)
						Organics		
				88	SP	POORLY GRADED SAND with GRAVEL -Orande/brown, damp, compact -Some cobbles, odd boulder	1	
				89	SP	POORLY GRADED SAND with GRAVEL -Brown, damp, compact -Some cobbles	2	
				90	SP	POORLY GRADED SAND with GRAVEL -Greyish brown, damp, loose -Odd cobble	3	
						END of HOLE	4	
							5	



SUBSURFACE EXPLORATION AND TEST REPORT		Campbell # 4		SOURCE/TP#: 848-5103				
J.Magun Contracting		Campbell Hwy Exploration, km 73.8 RHS		PROJECT NO:				
Hitachi 200 LC		Coordinates: Z09V N6719934.3m E491380.6m		ELEVATION: m				
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)	<div style="display: flex; justify-content: space-between;"> <div style="text-align: center;"> <p>PLASTIC M.C LIQUID</p> <p>0 20 40 60 80 100</p> </div> <div style="text-align: center;"> <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)
						Organics		
						POORLY GRADED GRAVEL with SILT and SAND -Orange/brown, damp, compact -Some cobbles and boulders	1	
						POORLY GRADED SAND with SILT and GRAVEL -Brown, damp, loose -Odd cobble	2	
						POORLY GRADED GRAVEL with SAND -Brown, damp, compact -Some cobbles	3	
						END of HOLE	4	
							5	



SUBSURFACE EXPLORATION AND TEST REPORT		Campbell # 4		SOURCE/TP#: 848-5105				
J.Magun Contracting		Campbell Hwy Exploration, km 73.8 RHS		PROJECT NO:				
Hitachi 200 LC		Coordinates: Z09V N6719859.9m E491378.2m		ELEVATION: m				
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)
						Organics		
						POORLY GRADED GRAVEL with SILT and SAND -Orange/brown, damp, compact -Some boulders, lots of cobbles	1	
						WELL-GRADED GRAVEL with SAND -Greyish brown, damp, loose	2	
						POORLY GRADED GRAVEL with SAND -Brown, damp, compact -Odd boulder, lots of cobbles	3	
							4	
						END of HOLE	5	
		Highways and Public Works Transportation Engineering Branch		LOGGED BY: G. Kennedy		Termination Depth: 4.2m		
				COMPILED BY: J.Hopkins		Complete: 11/1/2014 2:15:00 PM		
				REVIEWED BY: R.Stilwell		Pit #: 105A-56 Page 1 of 1		

SUBSURFACE EXPLORATION AND TEST REPORT		Campbell # 4		SOURCE/TP#: 848-5106					
J.Magun Contracting		Campbell Hwy Exploration, km 73.8 RHS		PROJECT NO:					
Hitachi 200 LC		Coordinates: Z09V N6719787.2m E491375.5m		ELEVATION: m					
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)		★ Percent Fines★ ◆ Percent Sand◆ ■ Percent Gravel■		Sample Type	Sample #	SOIL SYMBOL	DCPT/SPT Blows/30cm	SOIL DESCRIPTION	Depth (m)
								Organics	
					100	GP		POORLY GRADED GRAVEL -Orange/brown, damp, compact -Some cobbles, odd boulder	1
					101	GP		POORLY GRADED GRAVEL with SAND -Brown, damp, compact -Lots of cobbles	2
					102	GP		POORLY GRADED GRAVEL with SAND -Grey, damp, compact -Some cobbles	3
								END of HOLE	4
									5



SUBSURFACE EXPLORATION AND TEST REPORT		Campbell # 4		SOURCE/TP#: 848-5107									
J.Magun Contracting		Campbell Hwy Exploration, km 73.8 RHS		PROJECT NO:									
Hitachi 200 LC		Coordinates: Z09V N6719701.7m E491375m		ELEVATION: m									
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■	
										Organics			
						103	GP			POORLY GRADED GRAVEL -Orange/brown, damp, compact -Lots of cobbles, some boulders	1		
						104	GW			WELL-GRADED GRAVEL with SAND -Brown, damp, compact -Lots of cobbles, odd boulder	2		
						105	GW			WELL-GRADED GRAVEL with SAND -Greyish brown, damp, compact -Some cobbles	3		
										END of HOLE	4		
											5		

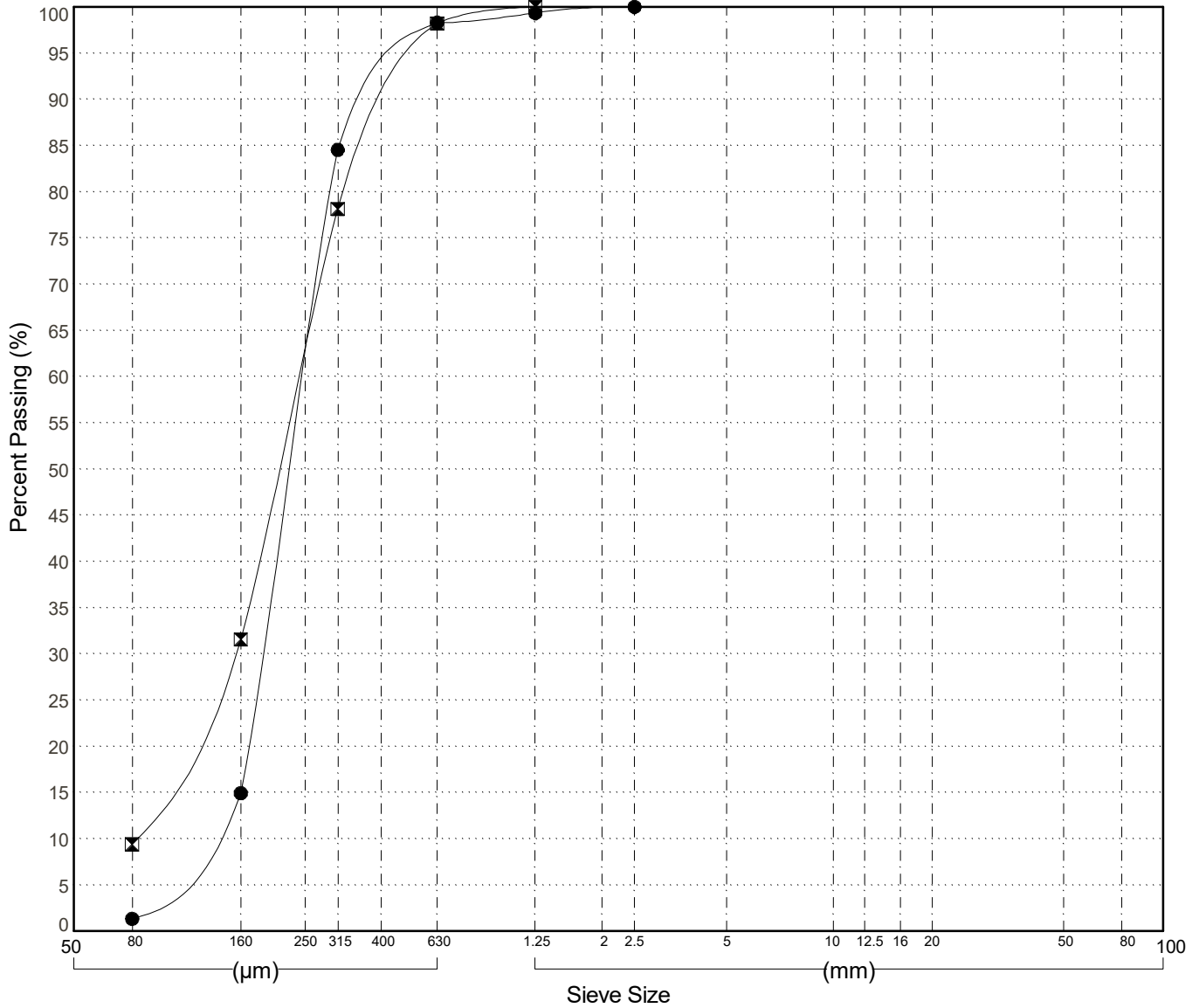


GRAIN SIZE ANALYSIS	Campbell Hwy Exploration	SOURCE/TP#: 847-5068
J.Magun Contracting	km 73.8 RHS	PROJECT NO:
Hitachi 200 LC	Coordinates:Z09V N6719257.3m E490832.3m	ELEVATION: m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu											
● 1	399	0.4 to 1.0	POORLY GRADED SAND(SP)	5.9	NP	NP	NP	1.1	2.0											
☒ 2	400	3.0 to 3.5	POORLY GRADED SAND with SILT(SP-SM)	8.3	NP	NP	NP	1.2	3.2											
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				
● 1	399	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.3	98.3	84.5	14.9	1.3	Gravel	Sand	Silt	Clay	
☒ 2	400	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.2	78.1	31.6	9.4	0.0	98.7	1.3		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: G. Kennedy
COMPILED BY: J Hopkins
REVIEWED BY: R.Stilwell

Pit # 105A-56
Complete: 10/28/2014 9:33:00 AM

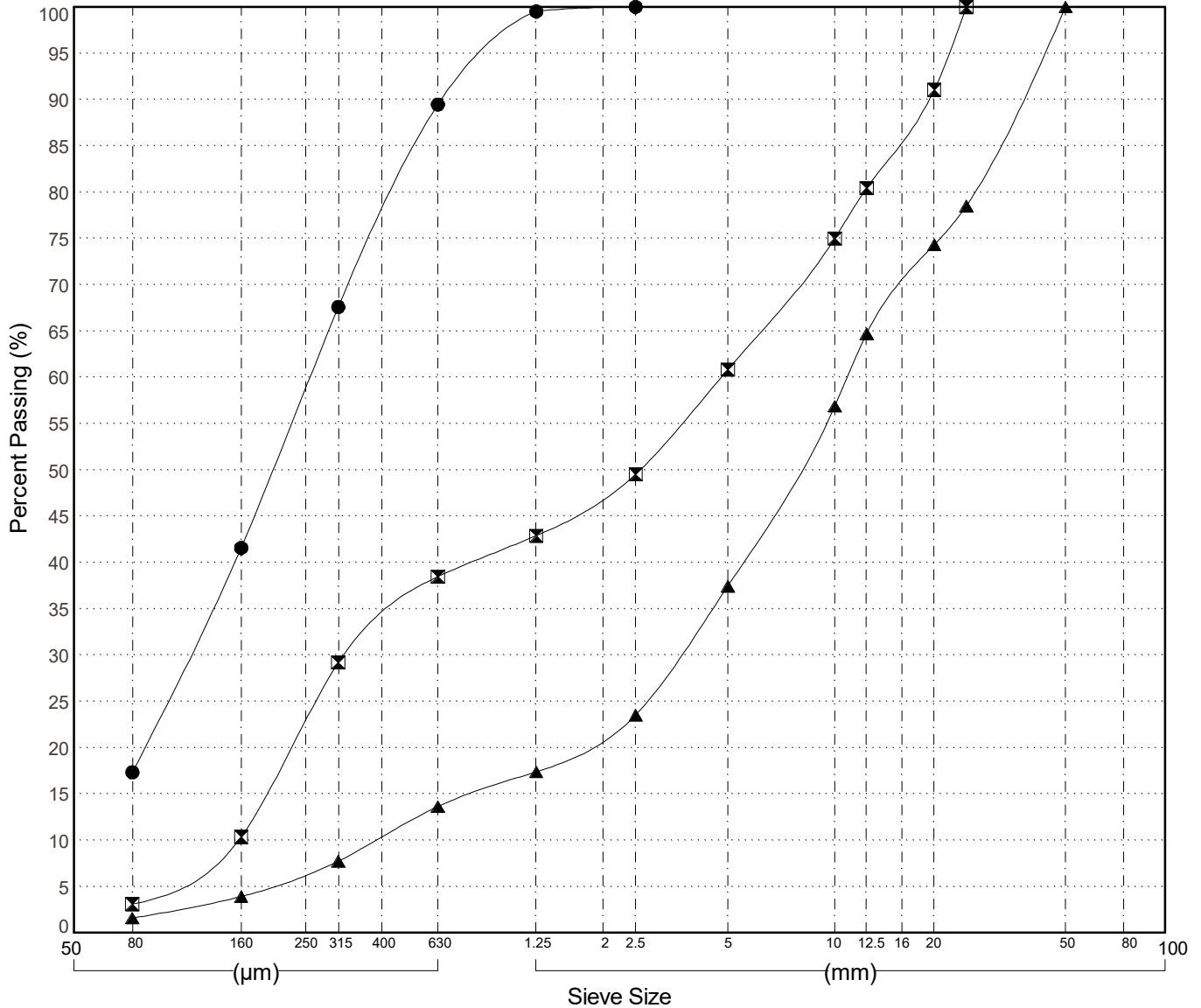
GRAIN SIZE ANALYSIS	Campbell Hwy Exploration	SOURCE/TP#: 847-5069
J.Magun Contracting	km 73.8 RHS	PROJECT NO:
Hitachi 200 LC	Coordinates:Z09V N6719266.3m E490885.5m	ELEVATION: m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 3	401	0.3 to 0.7	SILTY SAND(SM)	11.7	NP	NP	NP		
☒ 4	402	1.3 to 1.7	POORLY GRADED SAND with GRAVEL(SP)	3.9	NP	NP	NP	0.2	29.4
▲ 5	403	2.5 to 2.8	WELL-GRADED GRAVEL with SAND(GW)	3.0	NP	NP	NP	2.5	26.6

Field#	Lab#	% PASSING	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			
			Gravel	Sand	Silt	Clay														
● 3	401	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.5	89.5	67.6	41.6	17.3	0.0	82.7	17.3	
☒ 4	402	100.0	100.0	100.0	100.0	91.0	80.4	75.0	60.8	49.5	42.9	38.5	29.2	10.4	3.1		39.2	57.7	3.1	
▲ 5	403	100.0	100.0	100.0	78.5	74.3	64.7	56.9	37.4	23.5	17.4	13.6	7.7	3.9	1.6		62.6	35.9	1.6	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse

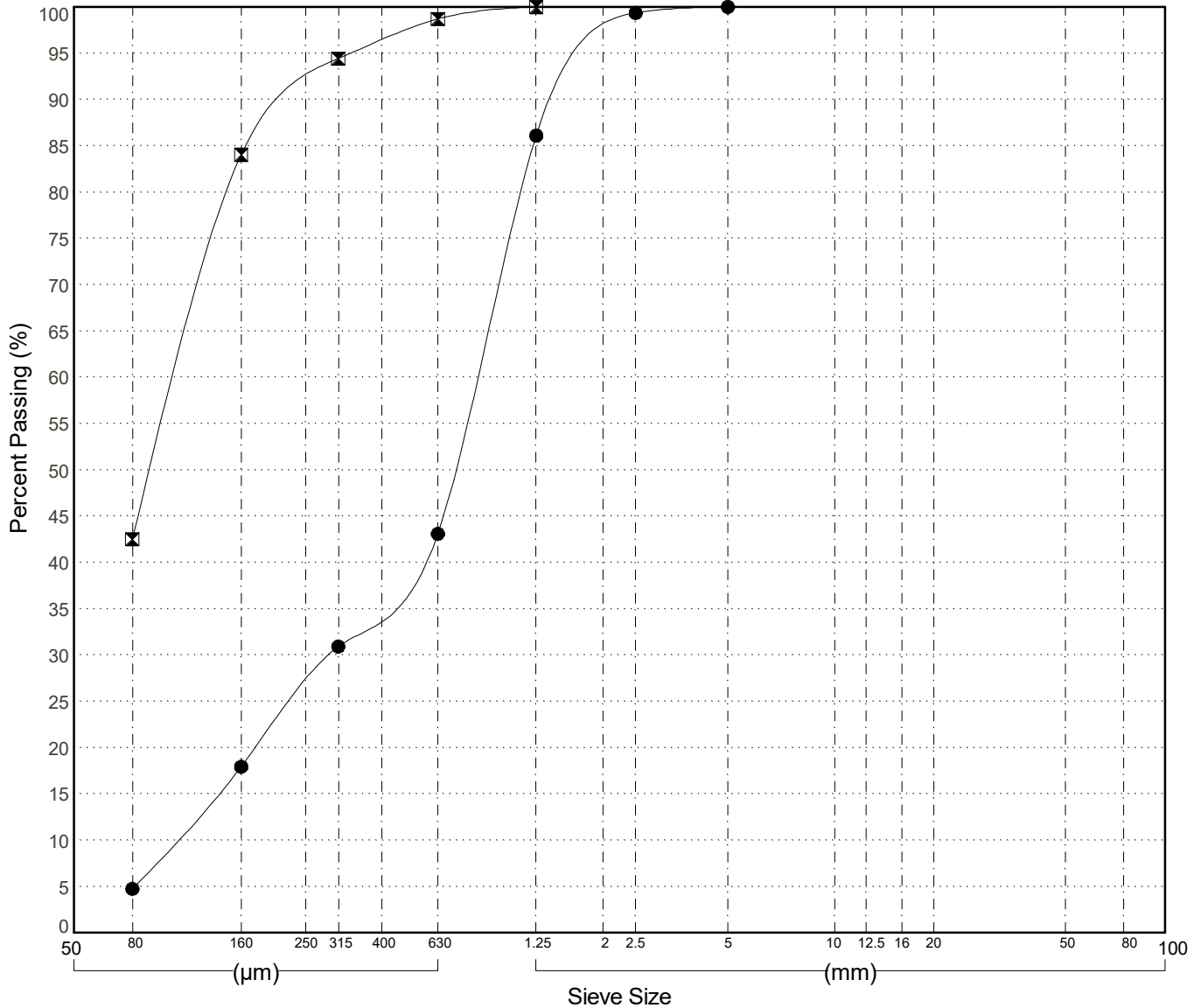


GRAIN SIZE ANALYSIS	Campbell Hwy Exploration	SOURCE/TP#: 847-5070
J.Magun Contracting	km 73.8 RHS	PROJECT NO:
Hitachi 200 LC	Coordinates:Z09V N6719278.7m E490935.4m	ELEVATION: m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu											
● 6	404	0.5 to 1.0	WELL-GRADED SAND(SW)	5.9	NP	NP	NP	1.1	8.1											
☒ 7	405	1.9 to 2.4	SILTY SAND(SM)	25.6	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				
		%PASSING														Gravel	Sand	Silt	Clay	
● 6	404	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.3	86.1	43.1	30.9	17.9	4.8	0.0	95.2	4.8		
☒ 7	405	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.7	94.4	84.0	42.5	0.0	57.5	42.5		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse

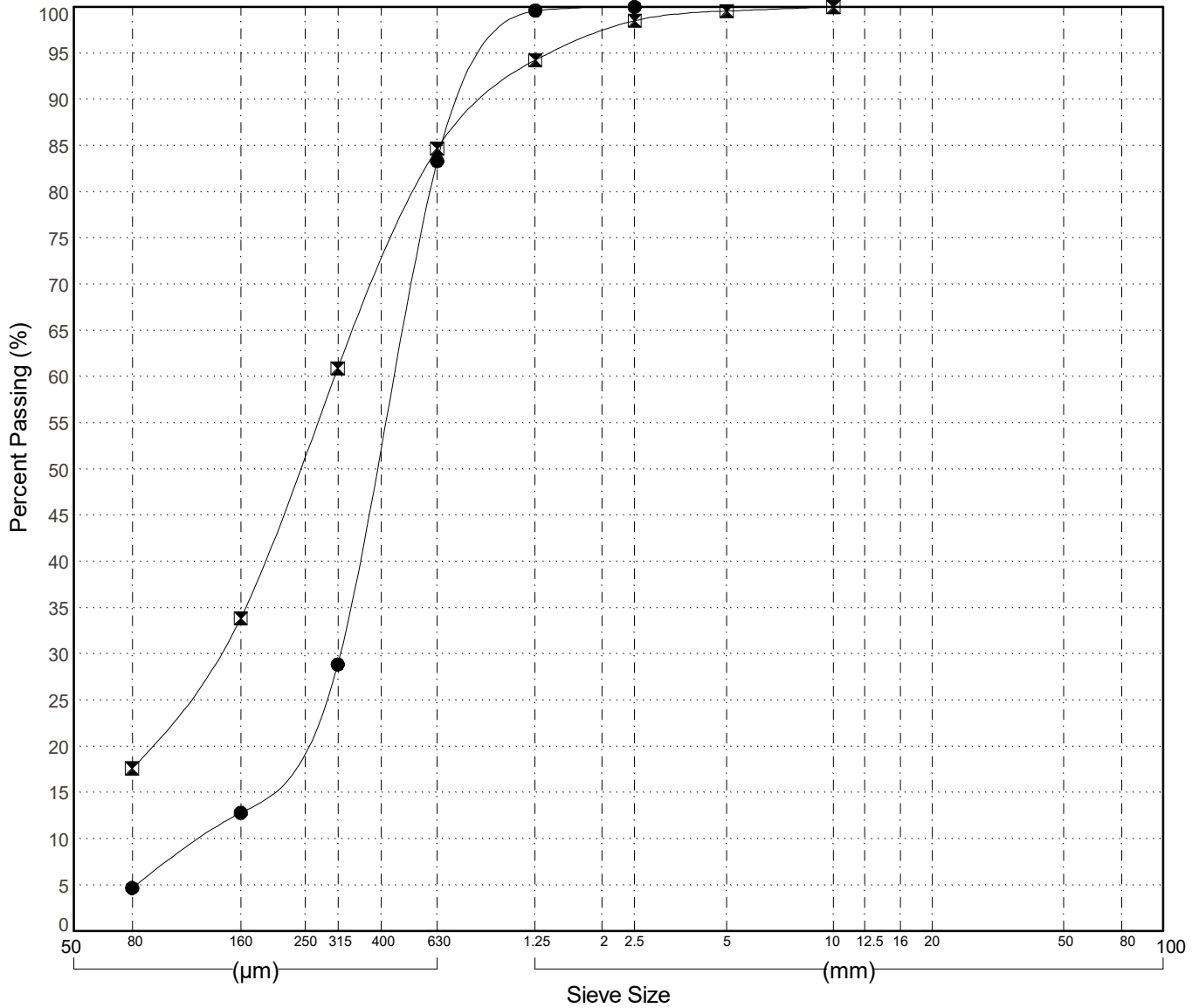


GRAIN SIZE ANALYSIS	Campbell Hwy Exploration	SOURCE/TP#: 847-5071
J.Magun Contracting	km 73.8 RHS	PROJECT NO:
Hitachi 200 LC	Coordinates:Z09V N6719310.8m E490973.5m	ELEVATION: m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H ₂ O	LL	PL	PI	C _c	C _u											
● 8	406	0.5 to 1.0	POORLY GRADED SAND(SP)	5.6	NP	NP	NP	1.8	3.8											
☒ 9	407	2.0 to 2.5	SILTY SAND(SM)	14.9	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				
● 8	406	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.6	83.3	28.9	12.8	4.7	Gravel	Sand	Silt	Clay	
☒ 9	407	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.6	98.5	94.2	84.7	60.9	33.9	17.6	0.0	95.3	4.7		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



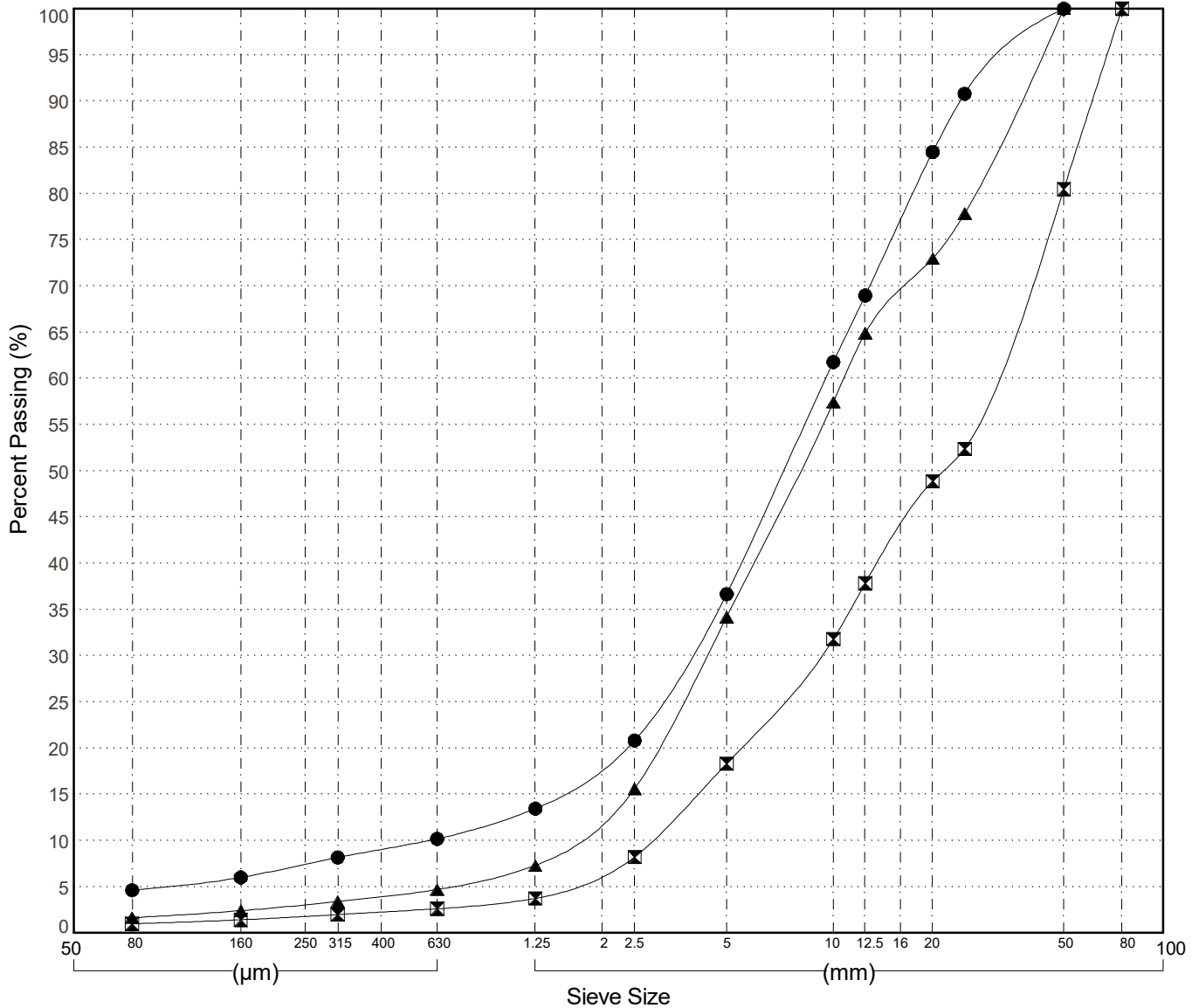
GRAIN SIZE ANALYSIS	Campbell Hwy Exploration	SOURCE/TP#: 847-5072
J.Magun Contracting	km 73.8 RHS	PROJECT NO:
Hitachi 200 LC	Coordinates:Z09V N6719327.6m E490918.6m	ELEVATION: m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 10	408	0.5 to 1.0	WELL-GRADED GRAVEL with SAND(GW)	6.7	NP	NP	NP	2.4	16.1
☒ 11	409	2.0 to 2.5	POORLY GRADED GRAVEL with SAND(GP)	2.2	NP	NP	NP	1.0	10.8
▲ 12	410	3.5 to 4.0	POORLY GRADED GRAVEL with SAND(GP)	3.3	NP	NP	NP	1.0	6.9

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
● 10	408	100.0	100.0	100.0	90.8	84.5	69.0	61.8	36.7	20.8	13.4	10.2	8.2	6.0	4.6	63.3	32.0	4.6
☒ 11	409	100.0	100.0	80.5	52.4	48.9	37.8	31.8	18.3	8.2	3.7	2.6	2.0	1.4	1.0	81.7	17.3	1.0
▲ 12	410	100.0	100.0	100.0	77.8	73.0	64.9	57.4	34.2	15.6	7.3	4.7	3.4	2.4	1.6	65.8	32.5	1.6

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: G. Kennedy
COMPILED BY: J. Hopkins
REVIEWED BY: R. Stilwell

Pit # 105A-56
Complete: 10/28/2014 11:55:00 AM
Page 1 of 1

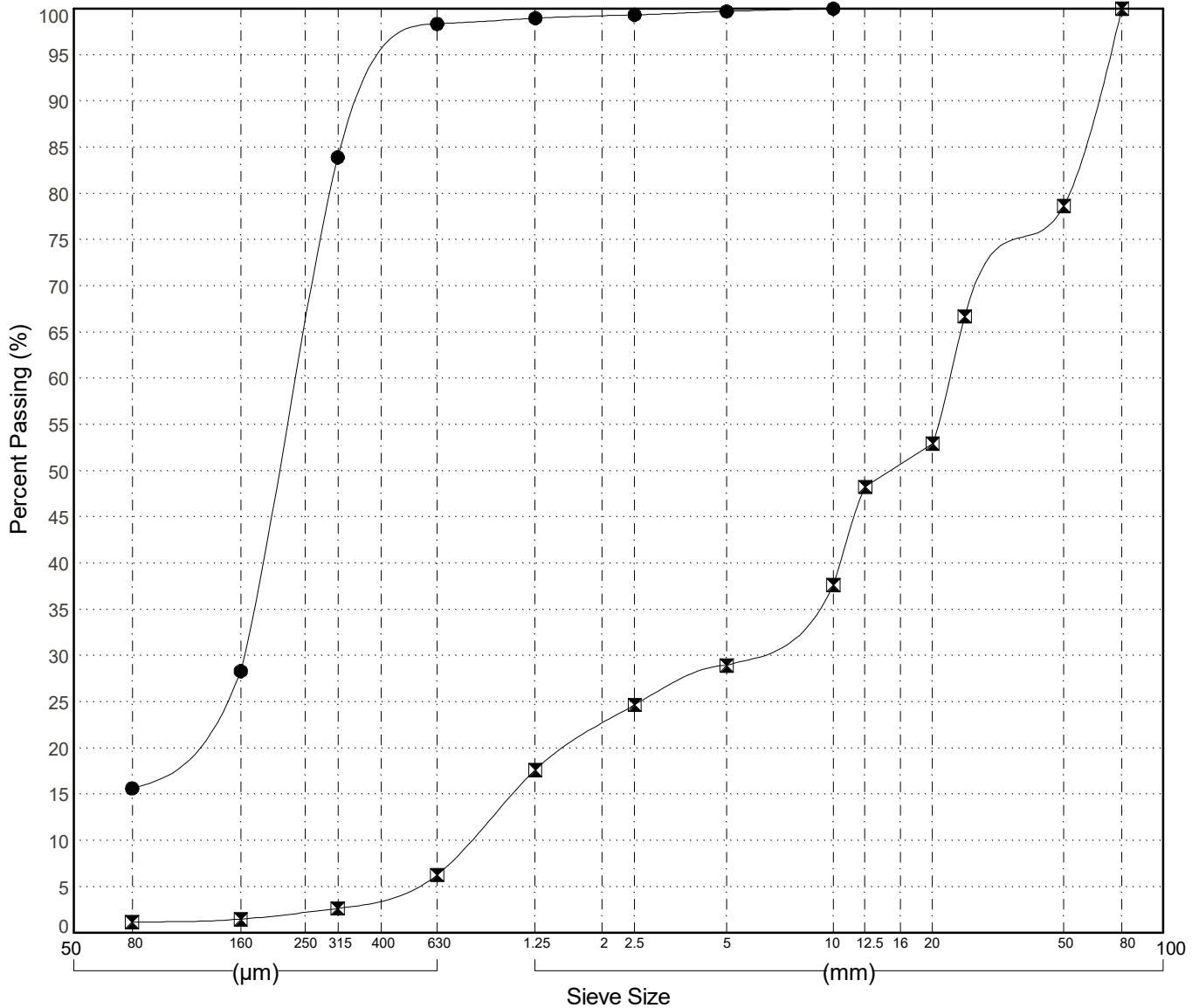
GRAIN SIZE ANALYSIS	Campbell Hwy Exploration	SOURCE/TP#: 847-5073
J.Magun Contracting	km 73.8 RHS	PROJECT NO:
Hitachi 200 LC	Coordinates:Z09V N6719303.8m E490817.5m	ELEVATION: m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 13	411	0.5 to 1.0	SILTY SAND(SM)	9.9	NP	NP	NP		
☒ 14	412	2.5 to 3.0	WELL-GRADED GRAVEL with SAND(GW)	4.3	NP	NP	NP	1.5	28.4

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/Clay
● 13	411	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.7	99.3	99.0	98.3	83.9	28.3	15.7	0.3	84.1	15.7	
☒ 14	412	100.0	100.0	78.7	66.7	53.0	48.3	37.6	28.9	24.7	17.6	6.3	2.7	1.5	1.2	71.1	27.8	1.2	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: G. Kennedy
COMPILED BY: J Hopkins
REVIEWED BY: R.Stilwell

Pit # 105A-56
Complete: 10/28/2014 12:51:00 PM
Page 1 of 1

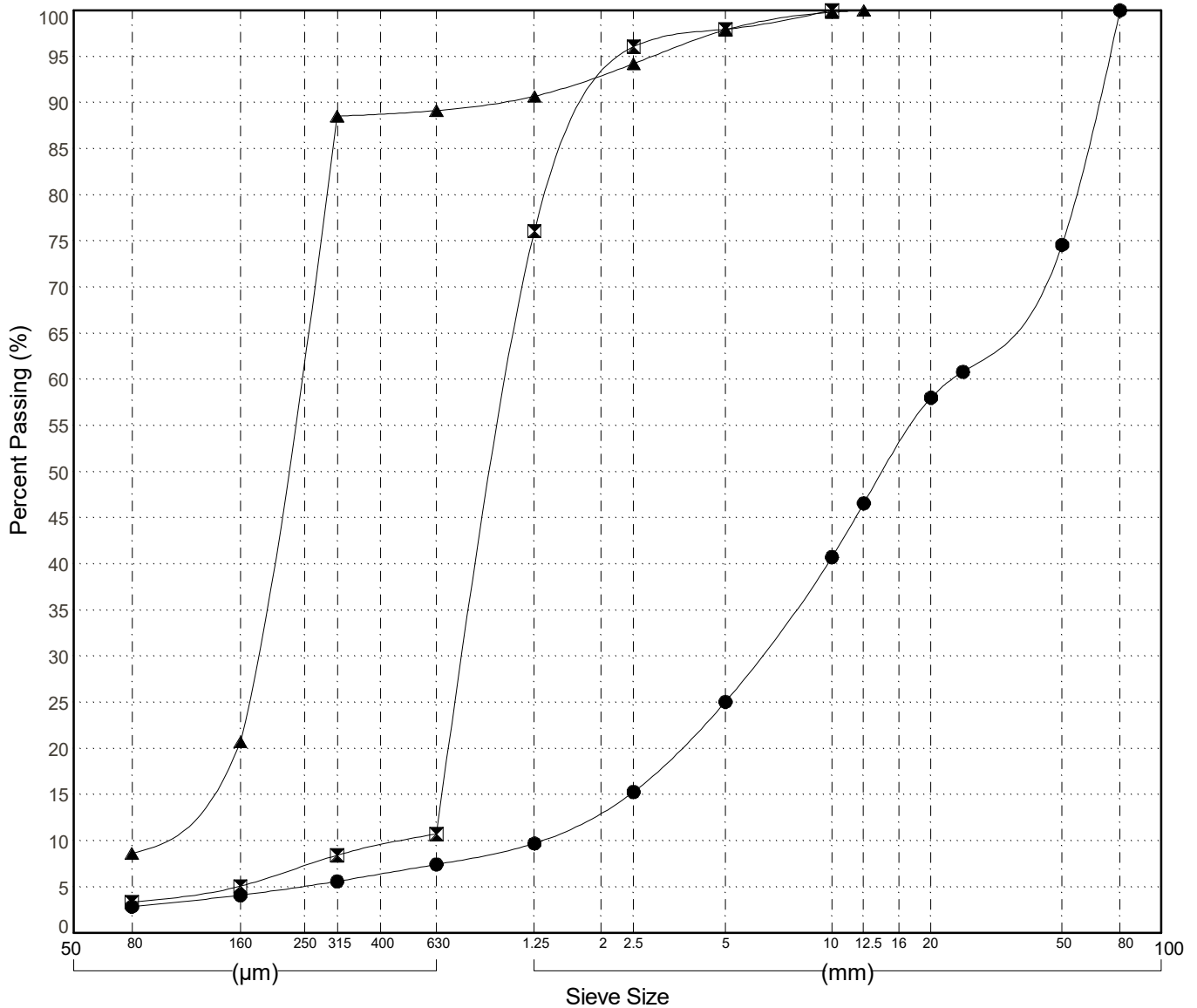
GRAIN SIZE ANALYSIS	Campbell Hwy Exploration	SOURCE/TP#: 847-5075
J.Magun Contracting	km 73.8 RHS	PROJECT NO:
Hitachi 200 LC	Coordinates:Z09V N6719368.6m E490840.4m	ELEVATION: m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 17	415	0.5 to 1.0	WELL-GRADED GRAVEL with SAND(GW)	3.5	NP	NP	NP	1.2	18.1
☒ 18	416	1.5 to 2.0	POORLY GRADED SAND(SP)	3.4	NP	NP	NP	1.1	2.1
▲ 19	417	3.0 to 3.5	POORLY GRADED SAND with SILT(SP-SM)	6.4	NP	NP	NP	1.6	2.9

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			
																Gravel	Sand	Silt	Clay
● 17	415	100.0	100.0	74.6	60.8	58.0	46.6	40.8	25.1	15.3	9.7	7.4	5.6	4.1	2.9	74.9	22.2	2.9	
☒ 18	416	100.0	100.0	100.0	100.0	100.0	100.0	100.0	97.9	96.0	76.1	10.7	8.4	5.1	3.3	2.1	94.6	3.3	
▲ 19	417	100.0	100.0	100.0	100.0	100.0	100.0	99.8	97.9	94.2	90.7	89.1	88.5	20.7	8.6	2.1	89.2	8.6	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



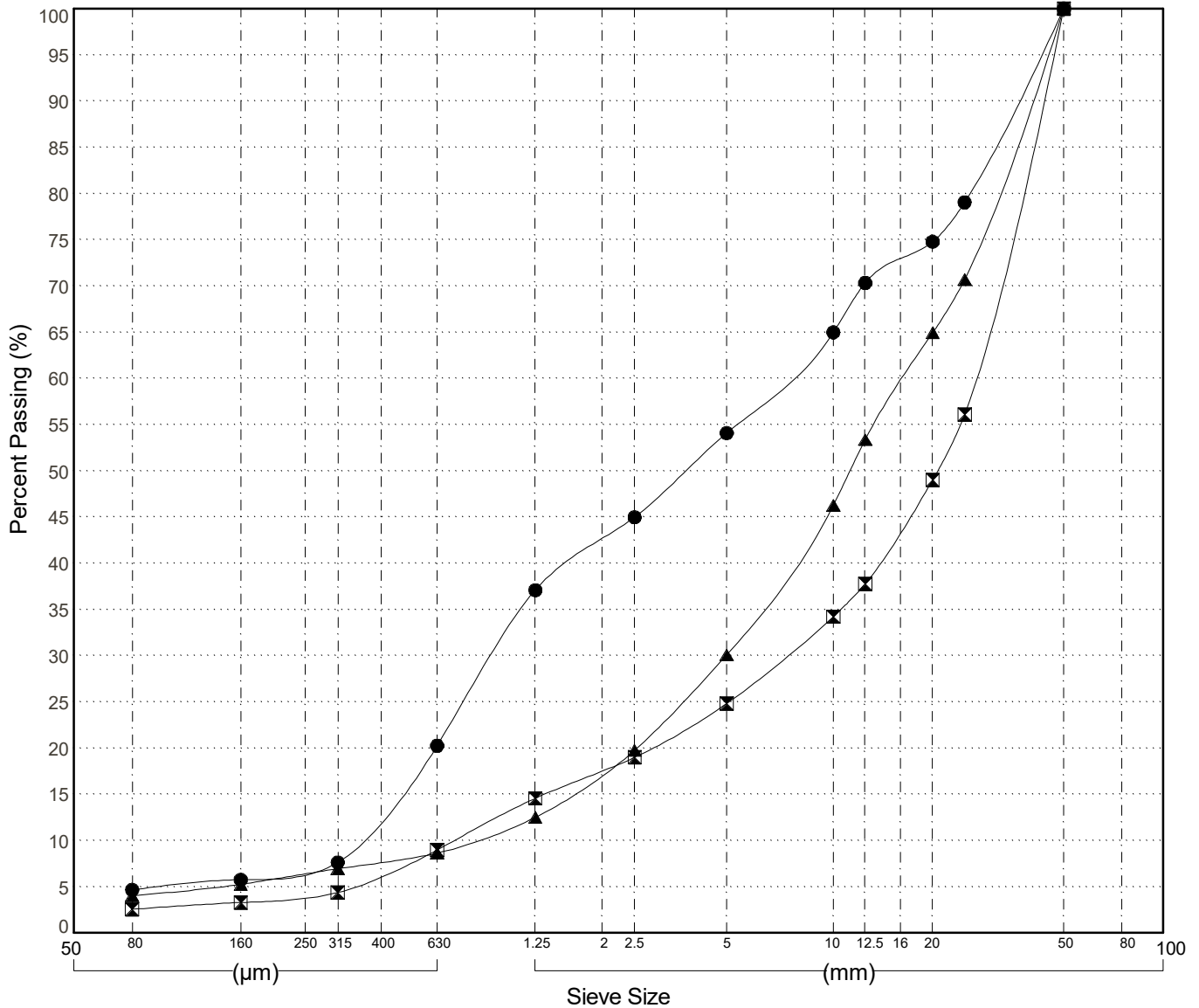
GRAIN SIZE ANALYSIS	Campbell Hwy Exploration	SOURCE/TP#: 847-5076
J.Magun Contracting	km 73.8 RHS	PROJECT NO:
Hitachi 200 LC	Coordinates:Z09V N6719475.3m E490796.3m	ELEVATION: m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 20	418	0.5 to 1.0	POORLY GRADED SAND with GRAVEL(SP)	6.5	NP	NP	NP	0.3	19.8
☒ 21	419	1.9 to 2.3	WELL-GRADED GRAVEL with SAND(GW)	3.8	NP	NP	NP	2.7	37.3
▲ 22	420	3.0 to 3.5	WELL-GRADED GRAVEL with SAND(GW)	4.4	NP	NP	NP	1.7	20.4

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	Clay
● 20	418	100.0	100.0	100.0	100.0	79.0	74.8	70.3	65.0	54.1	45.0	37.1	20.3	7.6	5.8	4.7	45.9	49.4	4.7
☒ 21	419	100.0	100.0	100.0	56.1	49.0	37.8	34.2	24.8	19.0	14.6	9.0	4.4	3.3	2.6	75.2	22.3	2.6	
▲ 22	420	100.0	100.0	100.0	70.7	64.9	53.4	46.3	30.1	19.8	12.5	8.6	6.9	5.3	4.0	69.9	26.0	4.0	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: G. Kennedy
COMPILED BY: J Hopkins
REVIEWED BY: R.Stilwell

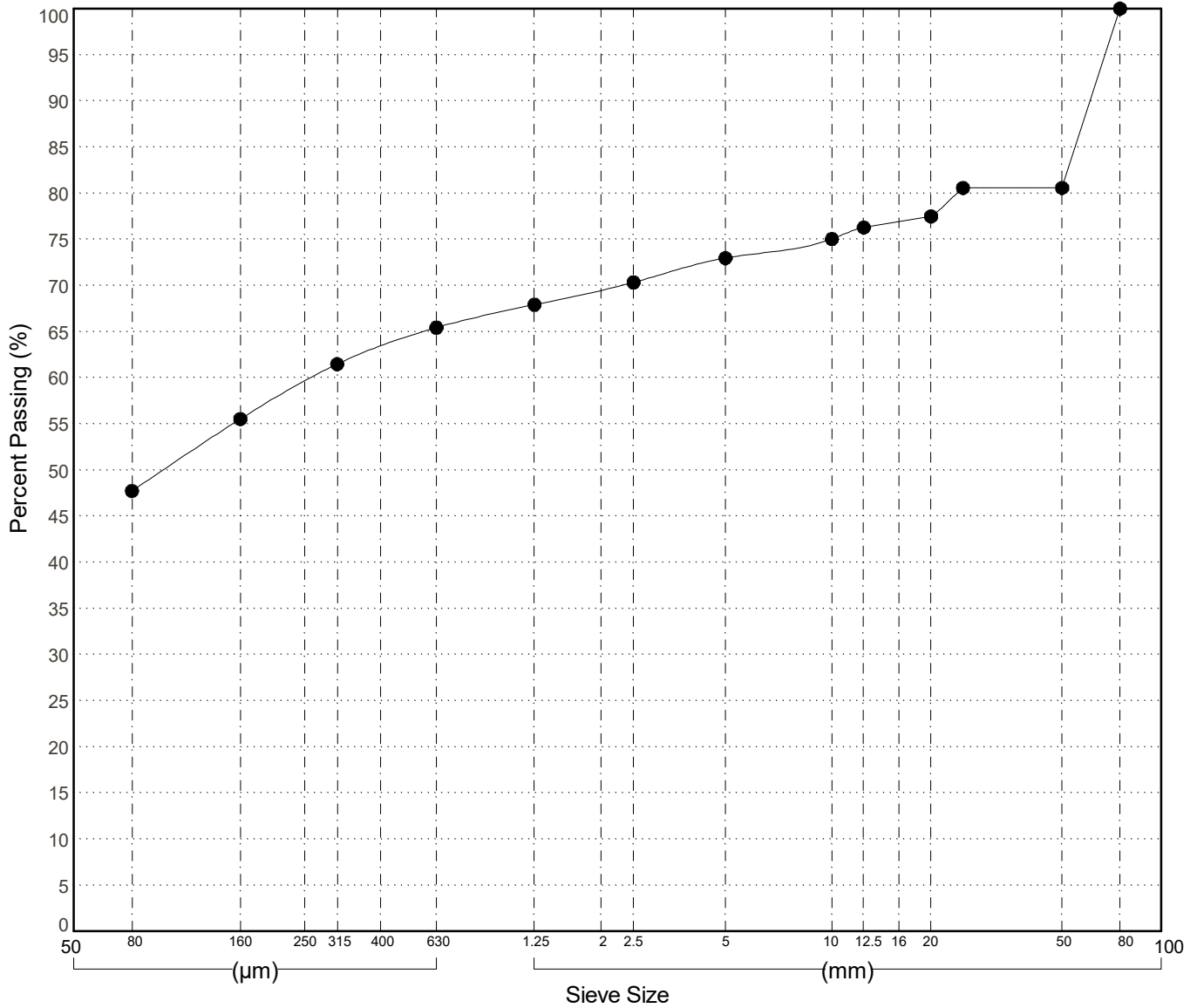
Pit # 105A-56
Complete: 10/28/2014 2:30:00 PM

GRAIN SIZE ANALYSIS	Campbell Hwy Exploration	SOURCE/TP#: 847-5077
J.Magun Contracting	km 73.8 RHS	PROJECT NO:
Hitachi 200 LC	Coordinates:Z09V N6719465.4m E490850.6m	ELEVATION: m

Master Revised July 2013

Field#	Lab#	Depth	Classification													%H2O	LL	PL	PI	Cc	Cu
● 23	421	1.0 to 1.5	SILTY GRAVEL with SAND(GM)													15.6	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				
● 23	421	% PASSING	100.0	100.0	80.6	80.6	77.5	76.3	75.0	73.0	70.3	67.9	65.4	61.5	55.5	47.7	Gravel	Sand	Silt	Clay	
																	27.0	25.2	47.7		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



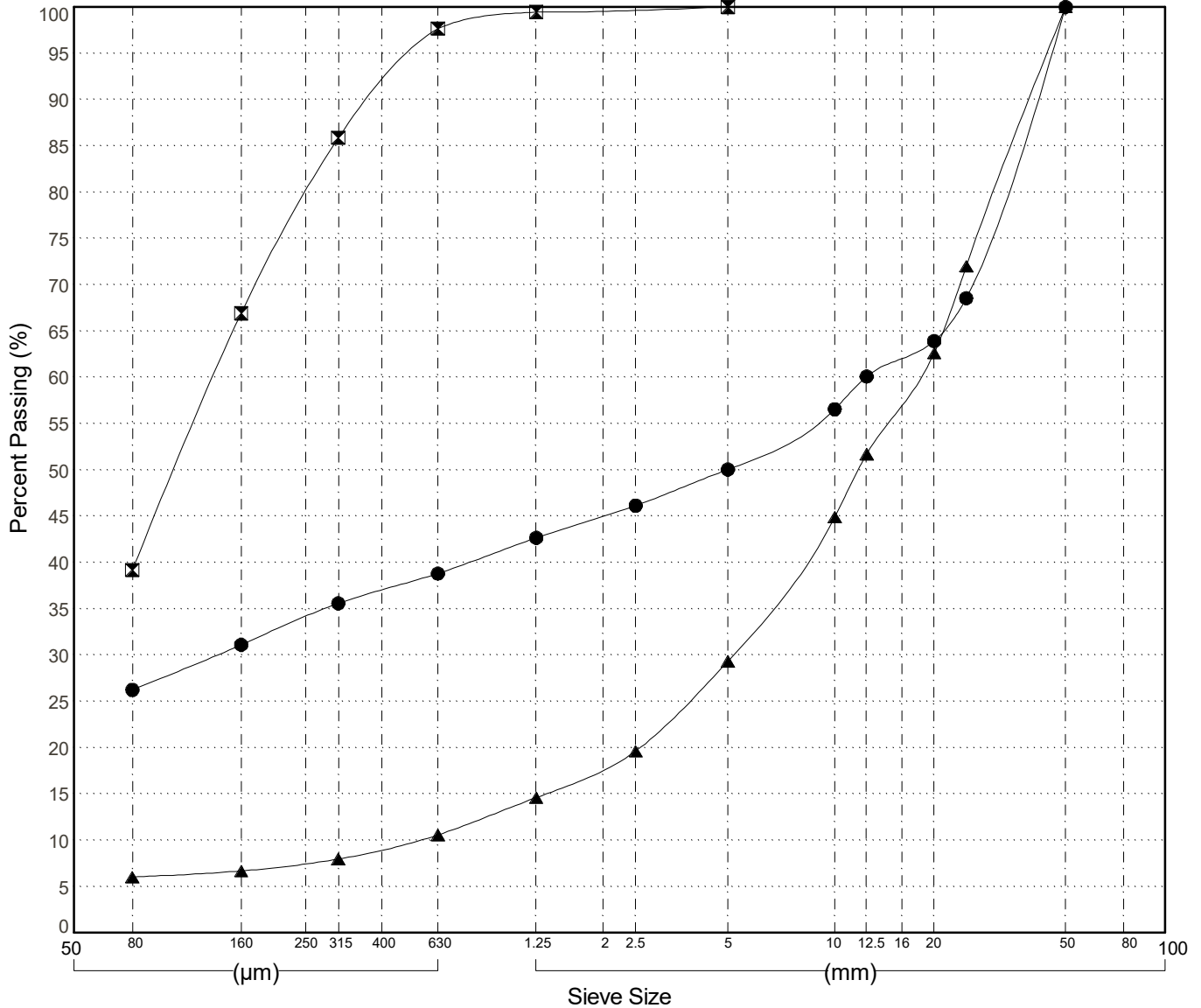
GRAIN SIZE ANALYSIS	Campbell Hwy Exploration	SOURCE/TP#: 847-5078
J.Magun Contracting	km 73.8 RHS	PROJECT NO:
Hitachi 200 LC	Coordinates:Z09V N6719391.7m E490883.4m	ELEVATION: m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 24	422	0.0 to 0.5	SILTY GRAVEL with SAND(GM)	10.8	NP	NP	NP		
☒ 25	423	1.0 to 1.5	SILTY SAND(SM)	17.5	NP	NP	NP		
▲ 26	424	3.0 to 3.5	WELL-GRADED GRAVEL with SILT and SAND(GW-GM)	3.2	NP	NP	NP	2.5	33.0

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
● 24	422	100.0	100.0	100.0	100.0	68.5	63.9	60.1	56.5	50.0	46.1	42.7	38.8	35.6	31.1	26.2	50.0	23.8	26.2
☒ 25	423	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.7	99.4	97.7	85.9	66.9	39.2	0.0	60.8	39.2	
▲ 26	424	100.0	100.0	100.0	72.0	62.6	51.7	44.9	29.3	19.6	14.6	10.6	8.0	6.7	6.0	70.7	23.3	6.0	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



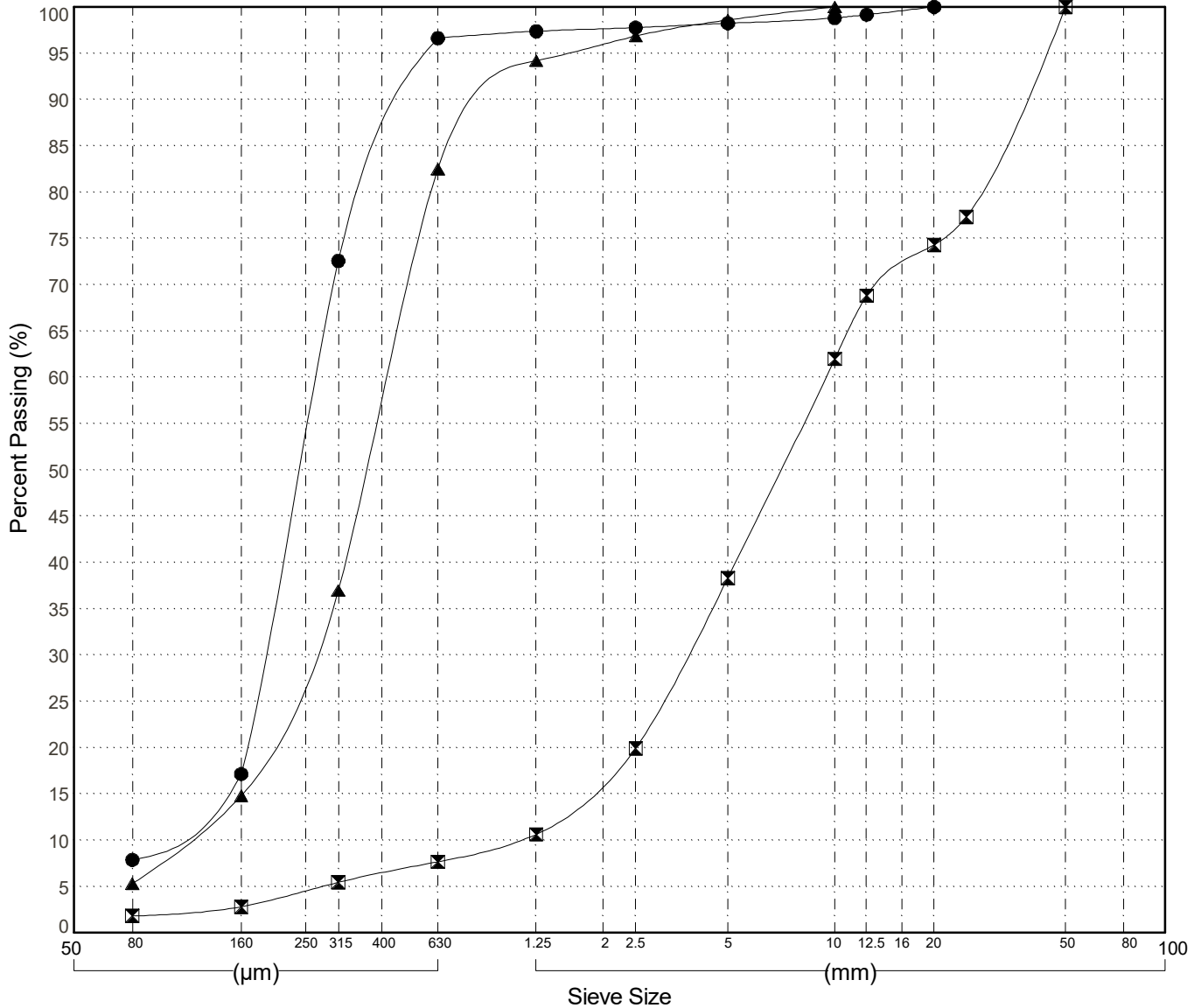
GRAIN SIZE ANALYSIS	Campbell Hwy Exploration	SOURCE/TP#: 847-5079
J.Magun Contracting	km 73.8 RHS	PROJECT NO:
Hitachi 200 LC	Coordinates:Z09V N6719370m E490951.2m	ELEVATION: m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 27	425	0.5 to 0.9	POORLY GRADED SAND with SILT(SP-SM)	7.7	NP	NP	NP	1.5	3.0
☒ 28	426	1.5 to 2.0	WELL-GRADED GRAVEL with SAND(GW)	2.3	NP	NP	NP	1.2	8.7
▲ 29	427	3.0 to 3.5	POORLY GRADED SAND with SILT(SP-SM)	3.4	NP	NP	NP	1.3	4.1

Field#	Lab#	% PASSING	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			
			Gravel	Sand	Silt	Clay														
● 27	425	100.0	100.0	100.0	100.0	100.0	99.2	98.8	98.2	97.8	97.4	96.6	72.6	17.2	7.9	1.8	90.3	7.9		
☒ 28	426	100.0	100.0	100.0	77.3	74.3	68.8	62.0	38.3	19.9	10.6	7.7	5.5	2.8	1.8	61.7	36.5	1.8		
▲ 29	427	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.6	96.8	94.2	82.5	37.0	14.8	5.3	1.4	93.3	5.3		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse

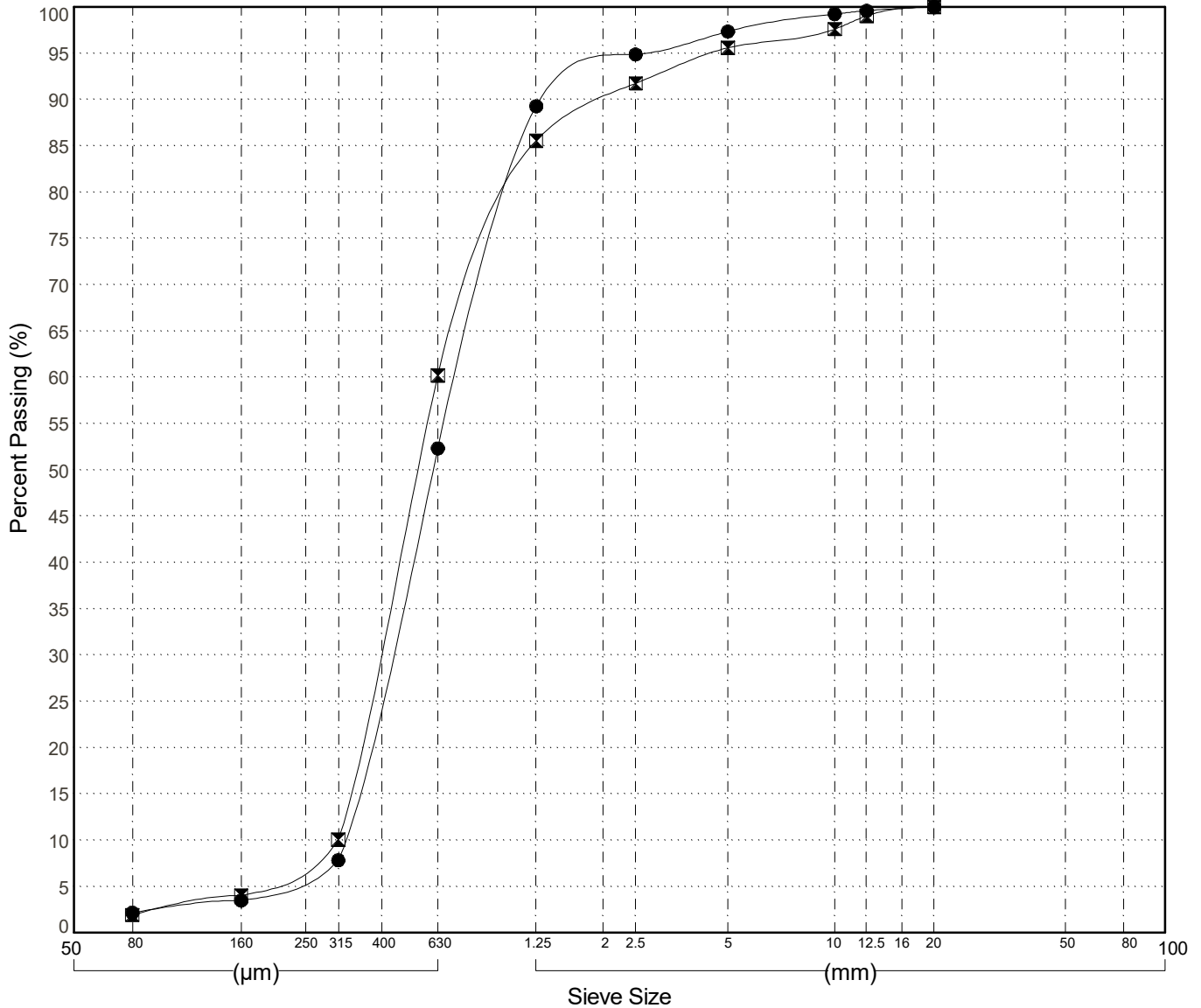


GRAIN SIZE ANALYSIS	Campbell Hwy Exploration	SOURCE/TP#: 847-5080
J.Magun Contracting	km 73.8 RHS	PROJECT NO:
Hitachi 200 LC	Coordinates:Z09V N6719406.6m E491014m	ELEVATION: m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu											
● 30	428	0.5 to 1.0	POORLY GRADED SAND(SP)	5.9	NP	NP	NP	0.8	2.2											
☒ 31	429	2.5 to 3.0	POORLY GRADED SAND(SP)	4.8	NP	NP	NP	0.9	2.0											
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				
● 30	428	100.0	100.0	100.0	100.0	100.0	99.6	99.2	97.3	94.9	89.3	52.3	7.9	3.5	2.2	Gravel	Sand	Silt	Clay	
☒ 31	429	100.0	100.0	100.0	100.0	100.0	99.0	97.6	95.6	91.7	85.6	60.2	10.1	4.0	1.9	4.4	93.6	1.9		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



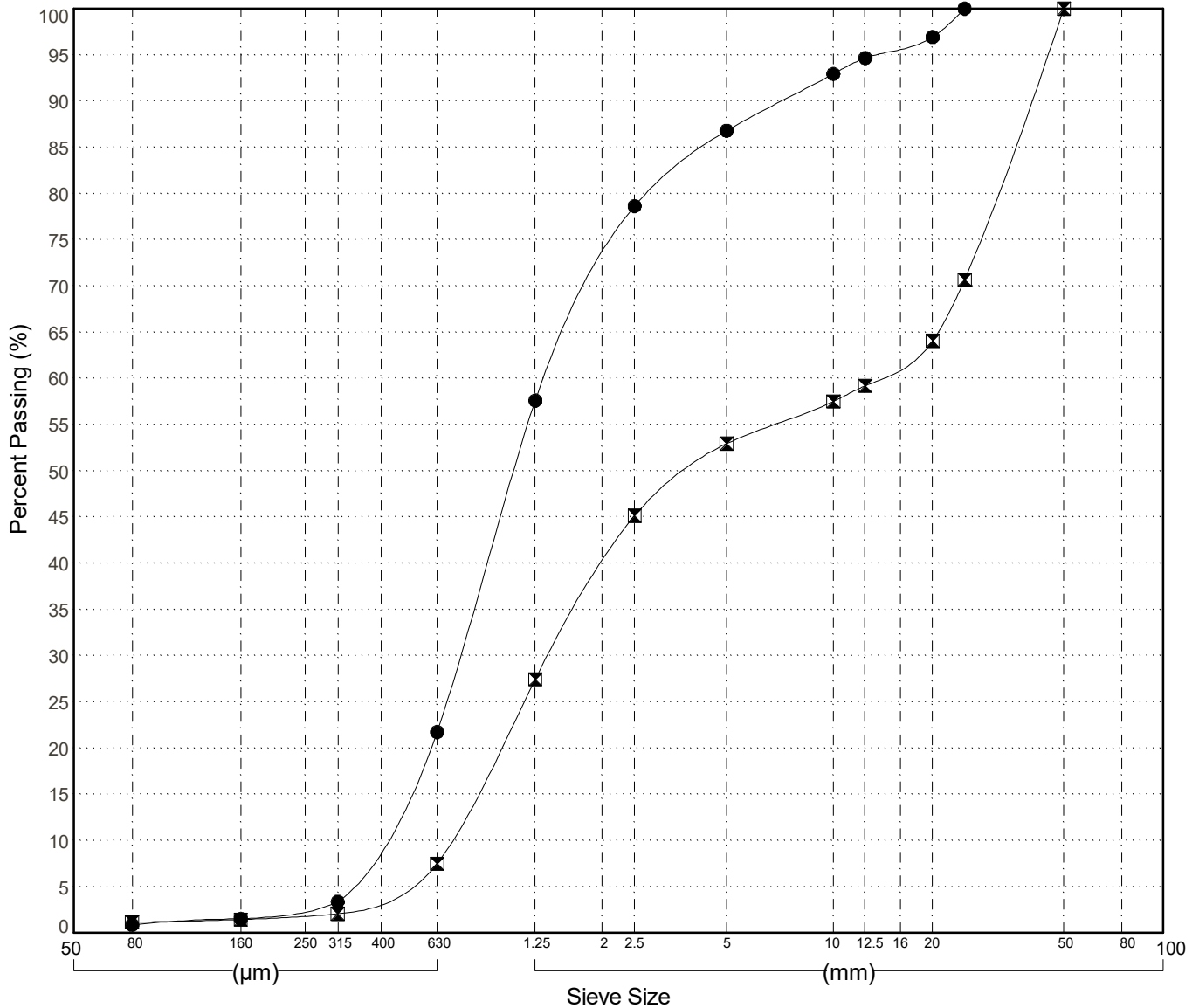
GRAIN SIZE ANALYSIS	Campbell Hwy Exploration	SOURCE/TP#: 847-5081
J.Magun Contracting	km 73.8 RHS	PROJECT NO:
Hitachi 200 LC	Coordinates:Z09V N6719451.9m E491042.1m	ELEVATION: m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 32	430	0.5 to 1.0	POORLY GRADED SAND(SP)	5.1	NP	NP	NP	1.0	3.3
☒ 33	431	3.0 to 3.5	POORLY GRADED SAND with GRAVEL(SP)	3.6	NP	NP	NP	0.2	19.7
Field#	Lab#								
● 32	430								
☒ 33	431								

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
● 32	430	100.0	100.0	100.0	100.0	96.9	94.7	92.9	86.8	78.6	57.6	21.7	3.4	1.5	0.9	13.2	85.9	0.9		
☒ 33	431	100.0	100.0	100.0	70.7	64.1	59.2	57.5	52.9	45.1	27.5	7.5	2.1	1.5	1.2	47.1	51.8	1.2		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



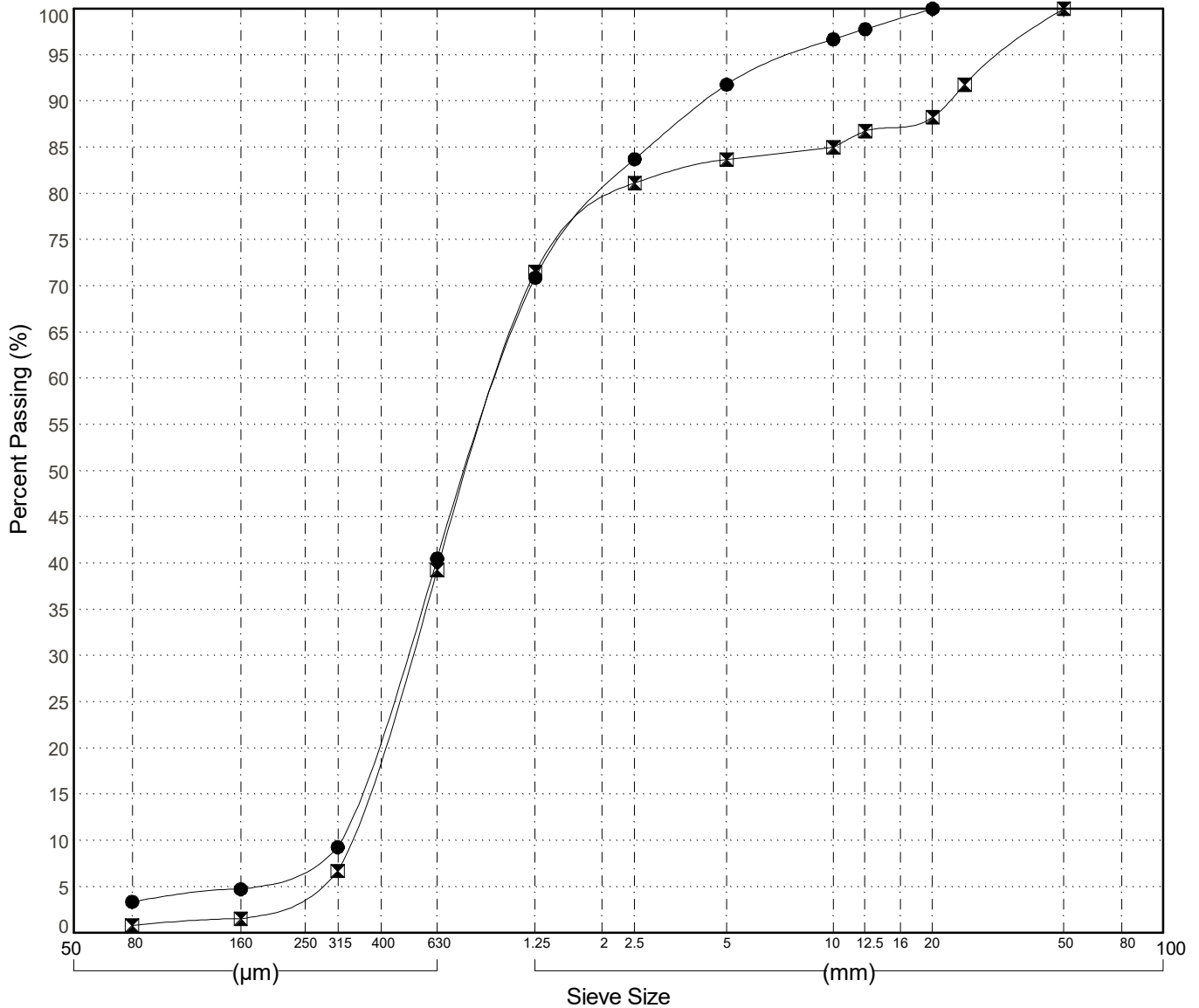
GRAIN SIZE ANALYSIS	Campbell Hwy Exploration	SOURCE/TP#: 847-5082
J.Magun Contracting	km 73.8 RHS	PROJECT NO:
Hitachi 200 LC	Coordinates:Z09V N6719345.5m E491109.3m	ELEVATION: m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 34	432	0.5 to 1.0	POORLY GRADED SAND(SP)	7.2	NP	NP	NP	0.8	3.1
☒ 35	433	3.0 to 3.5	POORLY GRADED SAND with GRAVEL(SP)	5.4	NP	NP	NP	0.8	2.9
Field#	Lab#								
● 34	432								
☒ 35	433								

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			
																Gravel	Sand	Silt	Clay
● 34	432	100.0	100.0	100.0	100.0	100.0	97.8	96.7	91.8	83.7	70.9	40.5	9.3	4.7	3.4	8.2	88.4	3.4	
☒ 35	433	100.0	100.0	100.0	91.8	88.3	86.7	85.0	83.7	81.1	71.5	39.3	6.7	1.5	0.8	16.3	82.8	0.8	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



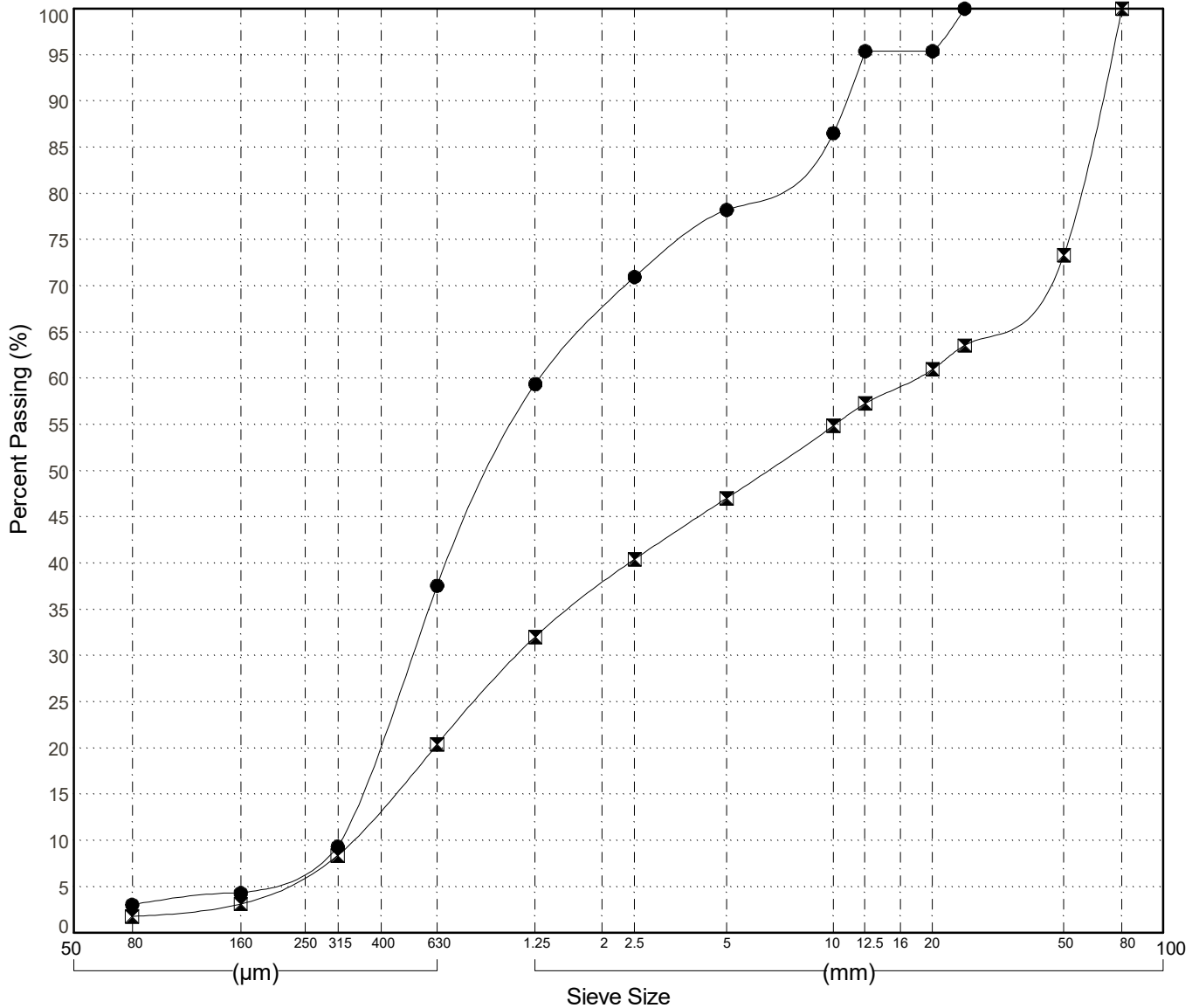
GRAIN SIZE ANALYSIS	Campbell Hwy Exploration	SOURCE/TP#: 847-5083
J.Magun Contracting	km 73.8 RHS	PROJECT NO:
Hitachi 200 LC	Coordinates:Z09V N6719366.3m E491247.3m	ELEVATION: m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 36	434	0.5 to 1.0	POORLY GRADED SAND with GRAVEL(SP)	5.7	NP	NP	NP	0.7	4.1
☒ 37	435	3.0 to 3.5	POORLY GRADED GRAVEL with SAND(GP)	3.3	NP	NP	NP	0.2	51.1

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				
																Gravel	Sand	Silt	Clay	
● 36	434	100.0	100.0	100.0	100.0	95.4	95.4	86.5	78.2	71.0	59.4	37.6	9.3	4.3	3.1	21.8	75.2	3.1		
☒ 37	435	100.0	100.0	73.3	63.6	61.0	57.3	54.9	47.0	40.4	32.0	20.4	8.4	3.1	1.8	53.0	45.2	1.8		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



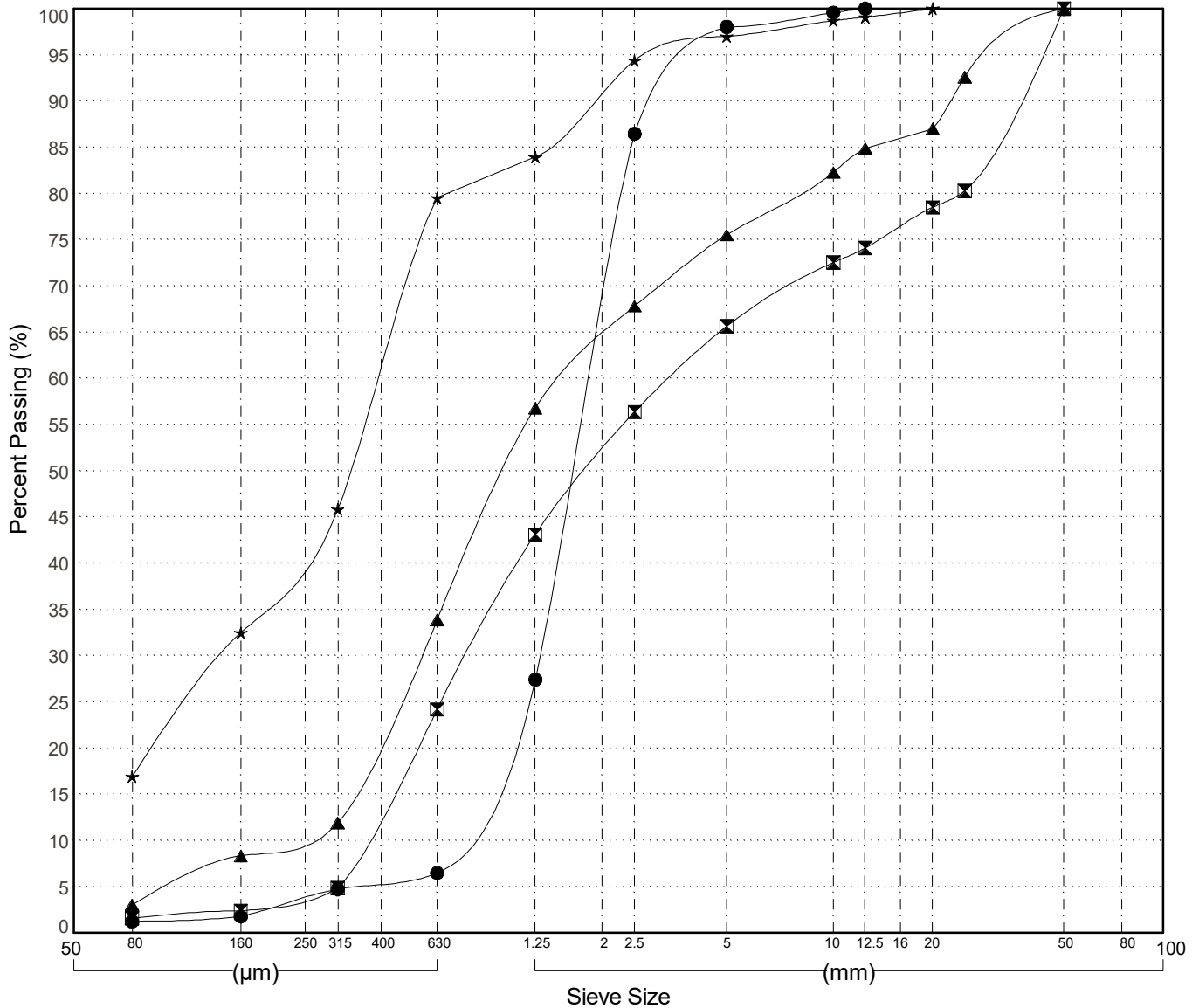
GRAIN SIZE ANALYSIS	Campbell Hwy Exploration	SOURCE/TP#: 847-5084
J.Magun Contracting	km 73.8 RHS	PROJECT NO:
Hitachi 200 LC	Coordinates:Z09V N6719415m E491180.1m	ELEVATION: m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H ₂ O	LL	PL	PI	C _c	C _u
● 38	436	0.5 to 1.0	POORLY GRADED SAND(SP)	4.0	NP	NP	NP	1.3	2.6
☒ 39	437	1.6 to 2.0	POORLY GRADED SAND with GRAVEL(SP)	4.7	NP	NP	NP	0.5	8.5
▲ 40	438	2.5 to 3.0	POORLY GRADED SAND with GRAVEL(SP)	5.4	NP	NP	NP	0.9	7.0
★ 41	439	3.5 to 4.0	SILTY SAND(SM)	10.8	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
● 38	436	100.0	100.0	100.0	100.0	100.0	100.0	99.6	98.0	86.5	27.4	6.5	4.7	1.8	1.3	2.0	96.8	1.3	
☒ 39	437	100.0	100.0	100.0	80.3	78.5	74.1	72.5	65.6	56.4	43.1	24.2	4.9	2.4	1.6	34.4	64.0	1.6	
▲ 40	438	100.0	100.0	100.0	92.6	87.0	84.9	82.3	75.5	67.8	56.8	33.9	11.9	8.4	3.0	24.5	72.5	3.0	
★ 41	439	100.0	100.0	100.0	100.0	99.1	98.7	97.0	94.4	83.9	79.5	45.8	32.5	16.9	3.0	80.1	16.9		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse

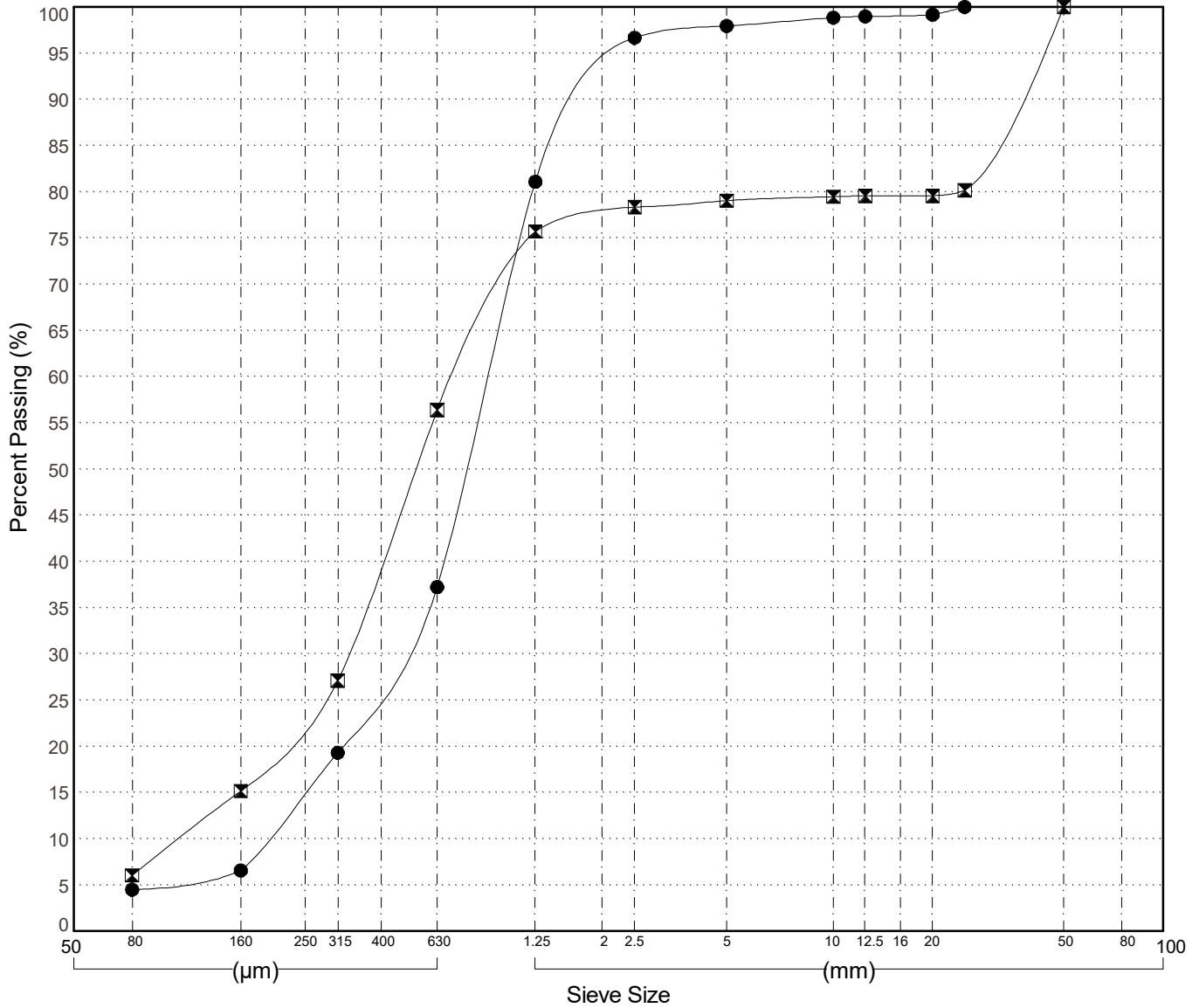


GRAIN SIZE ANALYSIS	Campbell Hwy Exploration	SOURCE/TP#: 847-5085
J.Magun Contracting	km 73.8 RHS	PROJECT NO:
Hitachi 200 LC	Coordinates:Z09V N6719454.6m E491130.8m	ELEVATION: m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu											
● 42	440	0.5 to 1.0	POORLY GRADED SAND(SP)	5.9	NP	NP	NP	1.3	4.7											
☒ 43	441	2.5 to 3.0	WELL-GRADED SAND with SILT and GRAVEL(SW-SM)	3.9	NP	NP	NP	1.5	6.9											
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				
● 42	440	100.0	100.0	100.0	100.0	99.2	99.0	98.8	97.9	96.7	81.1	37.2	19.3	6.6	4.5	Gravel	Sand	Silt	Clay	
☒ 43	441	100.0	100.0	100.0	80.2	79.6	79.6	79.5	79.0	78.4	75.7	56.4	27.1	15.2	6.0	21.0	73.0	6.0	4.5	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse

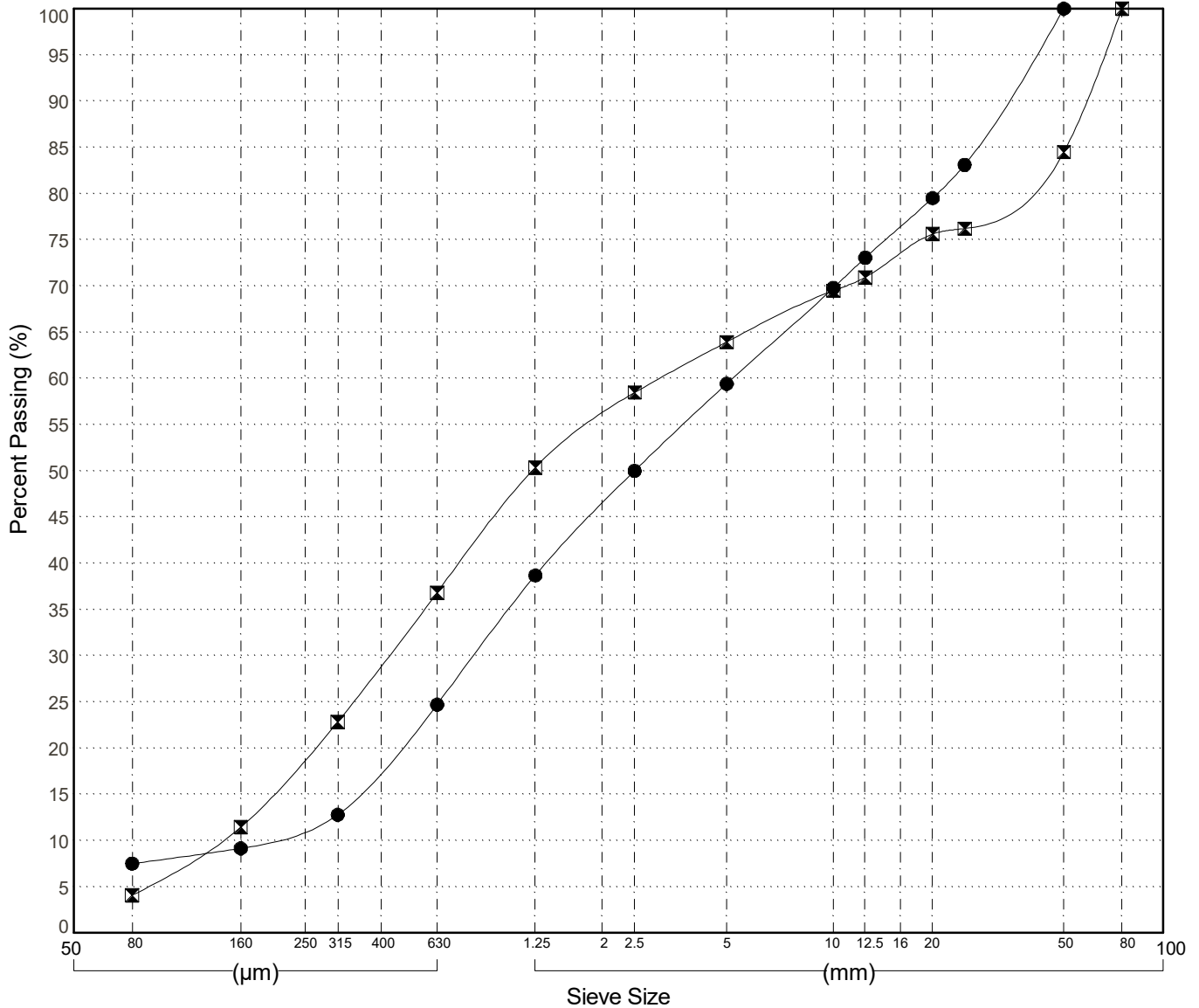


GRAIN SIZE ANALYSIS	Campbell Hwy Exploration	SOURCE/TP#: 847-5086
J.Magun Contracting	km 73.8 RHS	PROJECT NO:
Hitachi 200 LC	Coordinates:Z09V N6719449.7m E491262.4m	ELEVATION: m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H ₂ O	LL	PL	PI	C _c	C _u											
● 44	442	0.5 to 1.0	POORLY GRADED SAND with SILT and GRAVEL(SP-SM)	9.9	NP	NP	NP	0.7	26.5											
☒ 45	443	3.0 to 3.5	POORLY GRADED SAND with GRAVEL(SP)	5.2	NP	NP	NP	0.5	21.7											
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				
● 44	442	100.0	100.0	100.0	83.1	79.5	73.1	69.8	59.4	50.0	38.7	24.7	12.8	9.2	7.5	Gravel	Sand	Silt	Clay	
☒ 45	443	100.0	100.0	84.5	76.2	75.6	70.9	69.5	63.9	58.5	50.4	36.8	22.8	11.4	4.1	36.1	59.9	4.1		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



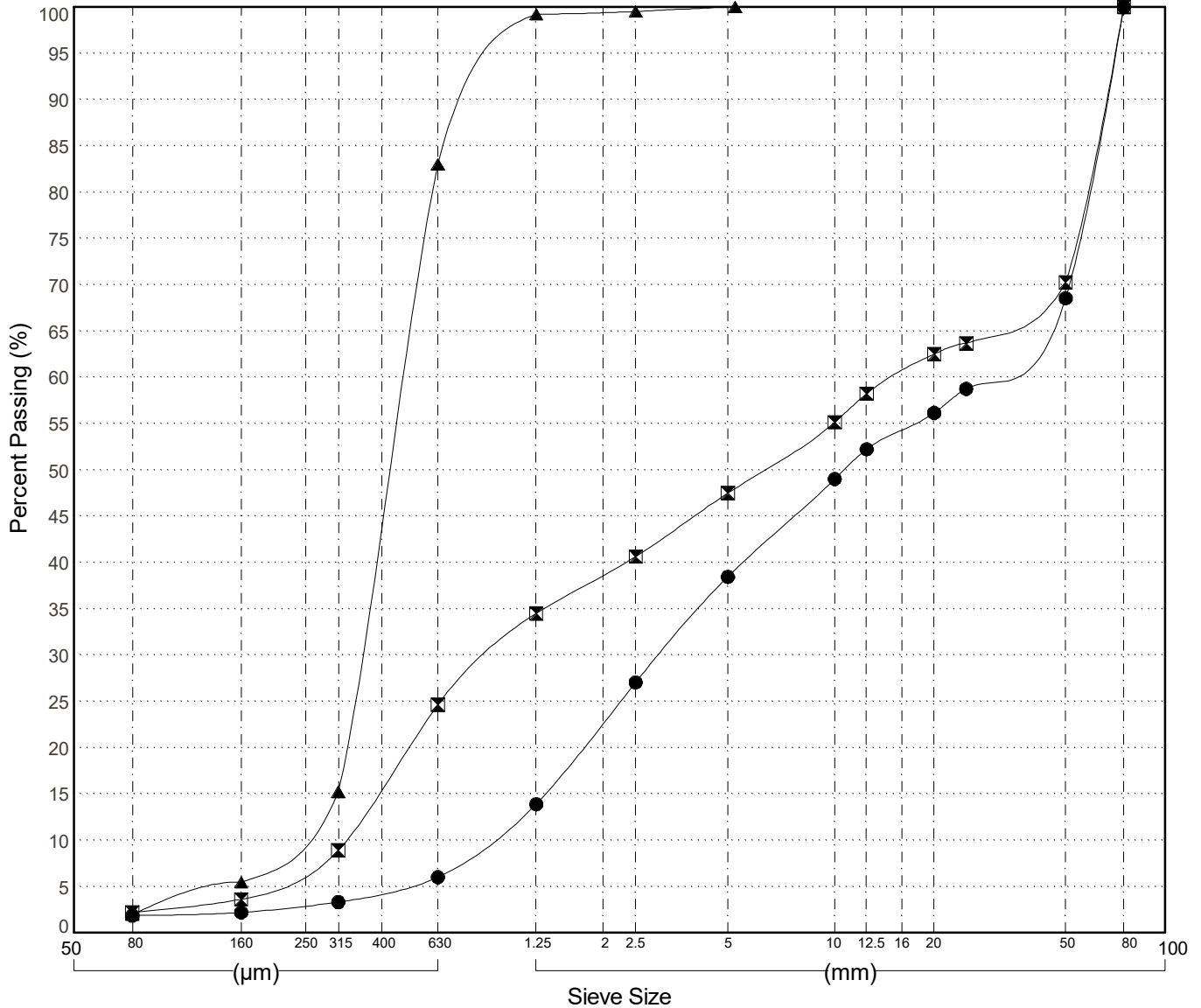
GRAIN SIZE ANALYSIS	Campbell Hwy Exploration	SOURCE/TP#: 847-5087
J.Magun Contracting	km 73.8 RHS	PROJECT NO:
Hitachi 200 LC	Coordinates:Z09V N6719474m E491356.1m	ELEVATION: m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 46	444	0.3 to 1.0	POORLY GRADED GRAVEL with SAND(GP)	3.5	NP	NP	NP	0.4	30.6
☒ 47	445	2.0 to 2.5	POORLY GRADED GRAVEL with SAND(GP)	4.0	NP	NP	NP	0.2	45.9
▲ 48	446	3.5 to 4.0	POORLY GRADED SAND(SP)	6.2	NP	NP	NP	1.2	2.3

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		
																Gravel	Sand	Silt/Clay
● 46	444	100.0	100.0	68.5	58.8	56.2	52.2	49.0	38.4	27.0	13.9	6.0	3.3	2.2	1.9	61.6	36.6	1.9
☒ 47	445	100.0	100.0	70.2	63.7	62.5	58.2	55.1	47.5	40.6	34.5	24.6	8.9	3.6	2.2	52.5	45.3	2.2
▲ 48	446	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.5	99.2	83.0	15.2	5.5	2.0	0.0	98.0	2.0

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



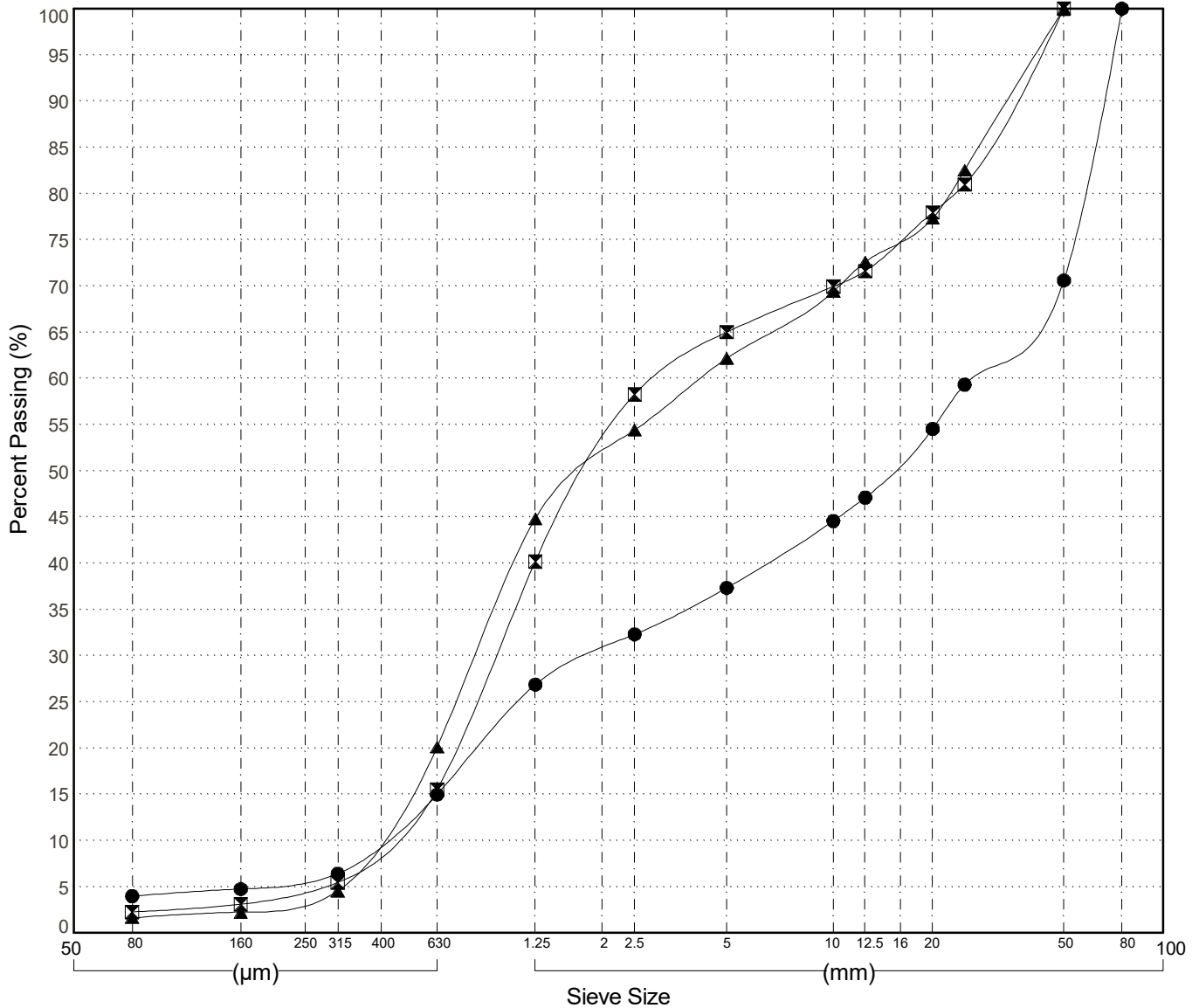
GRAIN SIZE ANALYSIS	Campbell Hwy Exploration	SOURCE/TP#: 847-5088
J.Magun Contracting	km 73.8 RHS	PROJECT NO:
Hitachi 200 LC	Coordinates:Z09V N6719410.9m E491334.6m	ELEVATION: m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 49	447	0.5 to 1.0	POORLY GRADED GRAVEL with SAND(GP)	4.4	NP	NP	NP	0.3	61.9
☒ 50	448	1.7 to 2.1	POORLY GRADED SAND with GRAVEL(SP)	4.4	NP	NP	NP	0.7	6.8
▲ 51	449	3.5 to 4.0	POORLY GRADED SAND with GRAVEL(SP)	4.8	NP	NP	NP	0.4	9.9

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			
		% PASSING														Gravel	Sand	Silt	Clay
● 49	447	100.0	100.0	70.6	59.3	54.5	47.1	44.6	37.3	32.3	26.9	15.0	6.4	4.8	4.0	62.7	33.3	4.0	
☒ 50	448	100.0	100.0	100.0	81.0	77.9	71.6	69.9	65.0	58.3	40.2	15.5	5.5	3.1	2.3	35.0	62.7	2.3	
▲ 51	449	100.0	100.0	100.0	82.5	77.3	72.6	69.4	62.2	54.4	44.8	20.1	4.5	2.2	1.6	37.8	60.5	1.6	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



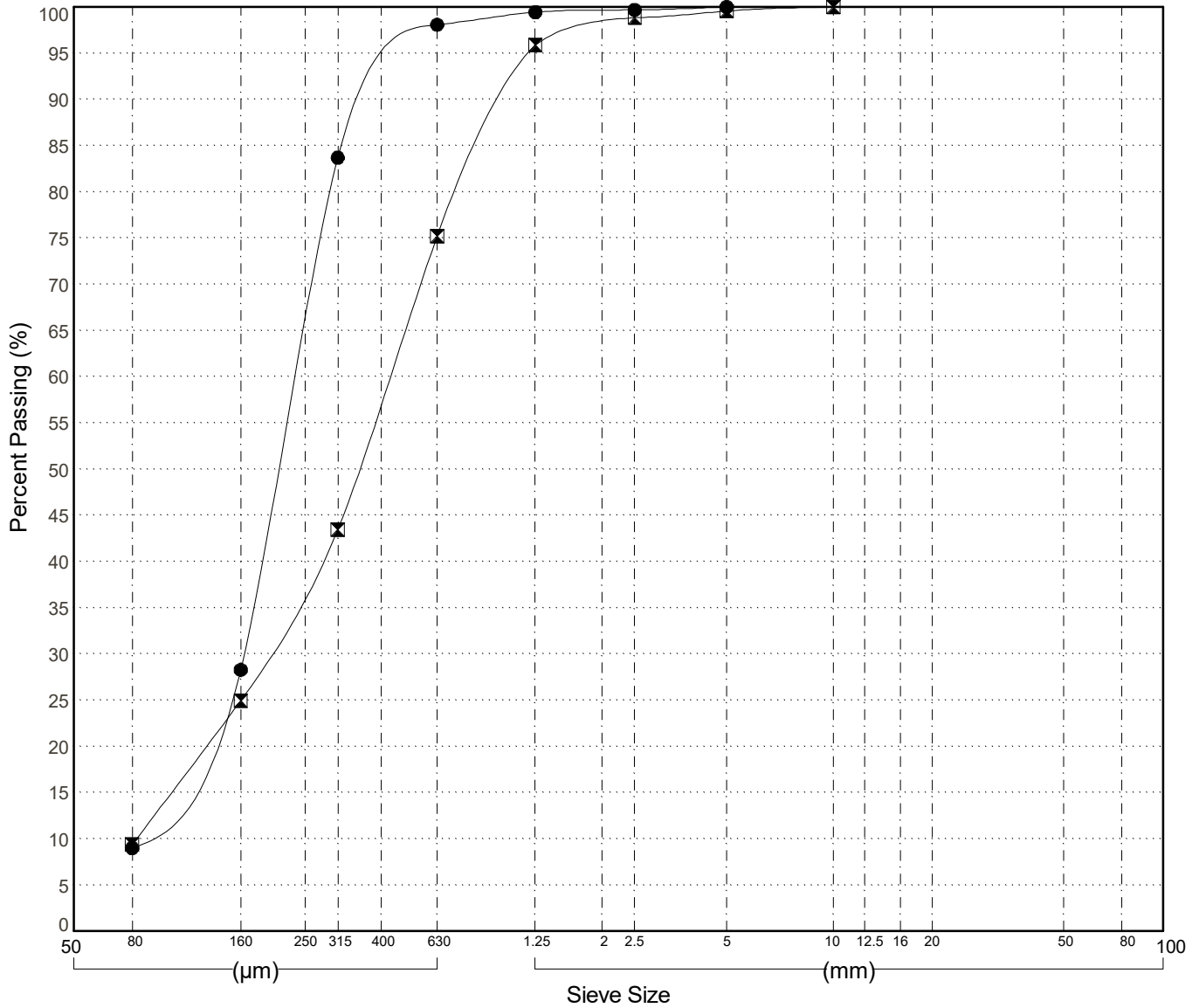
GRAIN SIZE ANALYSIS	Campbell Hwy Exploration	SOURCE/TP#: 847-5089
J.Magun Contracting	km 73.8 RHS	PROJECT NO:
Hitachi 200 LC	Coordinates:Z09V N6719539m E491275.2m	ELEVATION: m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 52	450	0.5 to 1.0	POORLY GRADED SAND with SILT(SP-SM)	5.9	NP	NP	NP	1.5	3.0
☒ 53	451	2.0 to 2.5	POORLY GRADED SAND with SILT(SP-SM)	5.7	NP	NP	NP	1.1	5.9

Field#	Lab#	% PASSING	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			
			Gravel	Sand	Silt	Clay														
● 52	450	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.7	99.4	98.1	83.7	28.3	9.0	0.0	91.0	9.0	0.0	
☒ 53	451	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.5	98.9	95.9	75.2	43.5	25.0	9.4	0.5	90.2	9.4	0.0	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



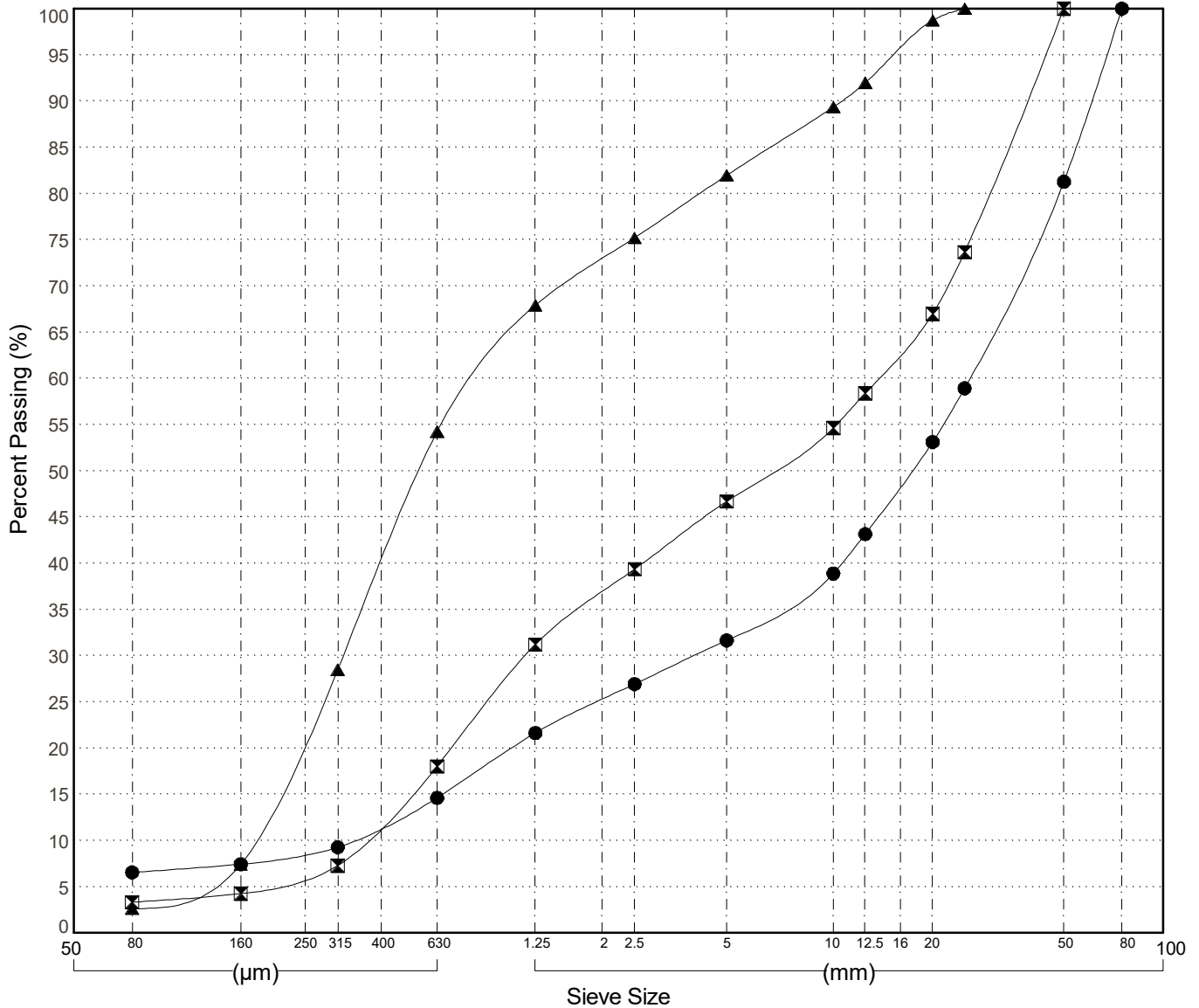
GRAIN SIZE ANALYSIS	Campbell Hwy Exploration	SOURCE/TP#: 847-5090
J.Magun Contracting	km 73.8 RHS	PROJECT NO:
Hitachi 200 LC	Coordinates:Z09V N6719552.1m E491428.1m	ELEVATION: m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 54	452	0.5 to 1.0	WELL-GRADED GRAVEL with SILT and SAND(GW-GM)	5.0	NP	NP	NP	1.6	74.7
☒ 55	453	2.0 to 2.5	POORLY GRADED GRAVEL with SAND(GP)	4.6	NP	NP	NP	0.3	36.4
▲ 56	454	3.5 to 4.0	POORLY GRADED SAND with GRAVEL(SP)	4.8	NP	NP	NP	0.7	4.8

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
● 54	452	100.0	100.0	100.0	81.3	58.9	53.1	43.2	38.9	31.7	26.9	21.6	14.6	9.3	7.4	6.6	68.3	25.1	6.6
☒ 55	453	100.0	100.0	100.0	73.7	67.0	58.4	54.7	46.7	39.4	31.2	18.0	7.3	4.2	3.3	53.3	43.4	3.3	
▲ 56	454	100.0	100.0	100.0	100.0	98.7	92.0	89.4	82.0	75.2	67.9	54.3	28.5	7.4	2.6	18.0	79.3	2.6	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



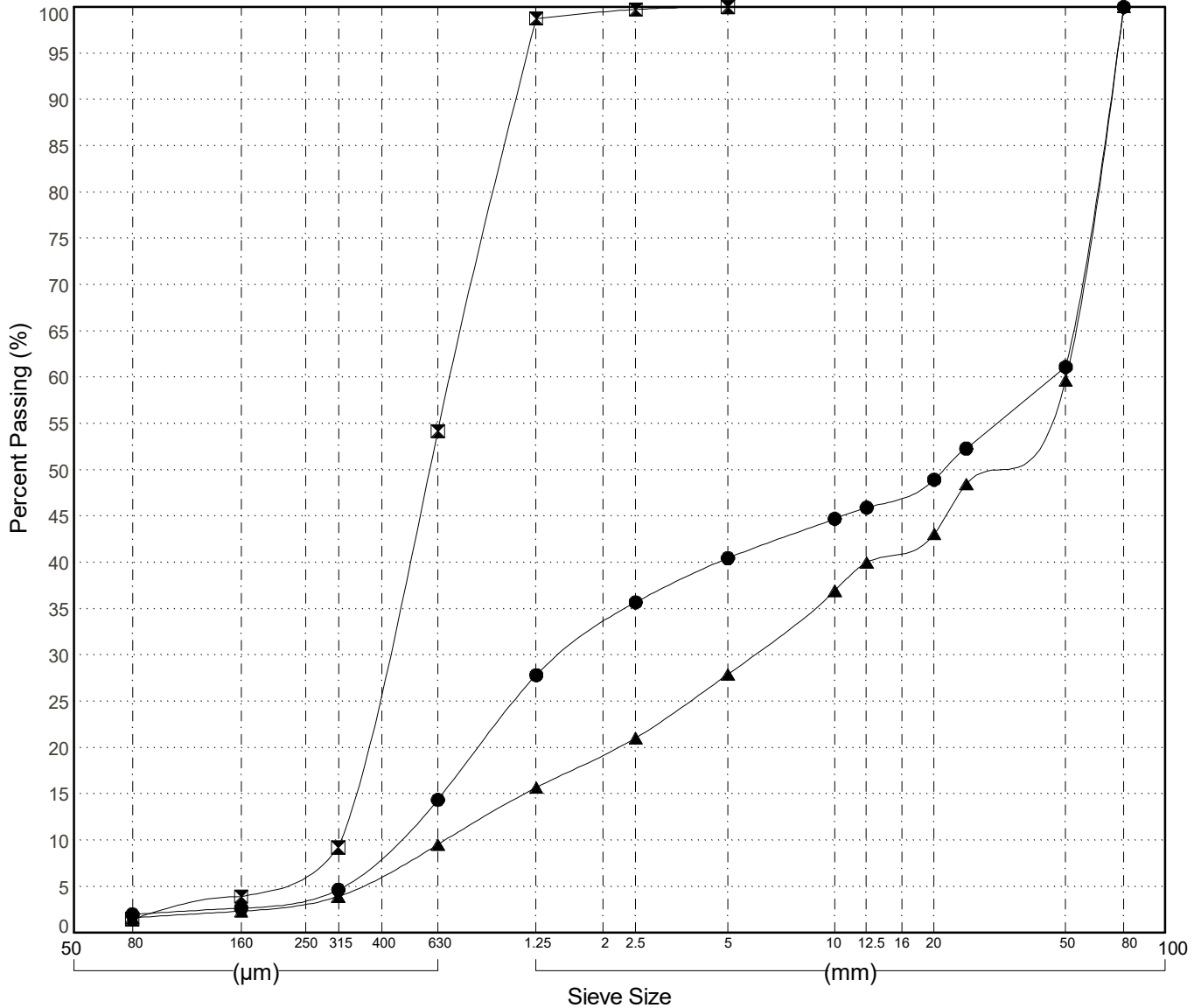
GRAIN SIZE ANALYSIS	Campbell Hwy Exploration	SOURCE/TP#: 847-5091
J.Magun Contracting	km 73.8 RHS	PROJECT NO:
Hitachi 200 LC	Coordinates:Z09V N6719616.2m E491462.2m	ELEVATION: m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 57	455	0.5 to 1.0	POORLY GRADED GRAVEL with SAND(GP)	2.7	NP	NP	NP	0.1	99.4
☒ 58	456	1.5 to 2.0	POORLY GRADED SAND(SP)	4.0	NP	NP	NP	0.9	2.2
▲ 59	457	3.0 to 3.5	POORLY GRADED GRAVEL with SAND(GP)	2.1	NP	NP	NP	1.0	75.6

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	Clay
● 57	455	100.0	100.0	100.0	61.1	52.3	48.9	45.9	44.7	40.5	35.7	27.8	14.4	4.7	2.7	2.0	59.5	38.5	2.0	
☒ 58	456	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.7	98.7	54.2	9.2	3.9	1.5	0.0	98.5	1.5		
▲ 59	457	100.0	100.0	59.7	48.5	43.1	40.0	36.9	27.9	21.0	15.7	9.5	3.9	2.3	1.6	72.1	26.3	1.6		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



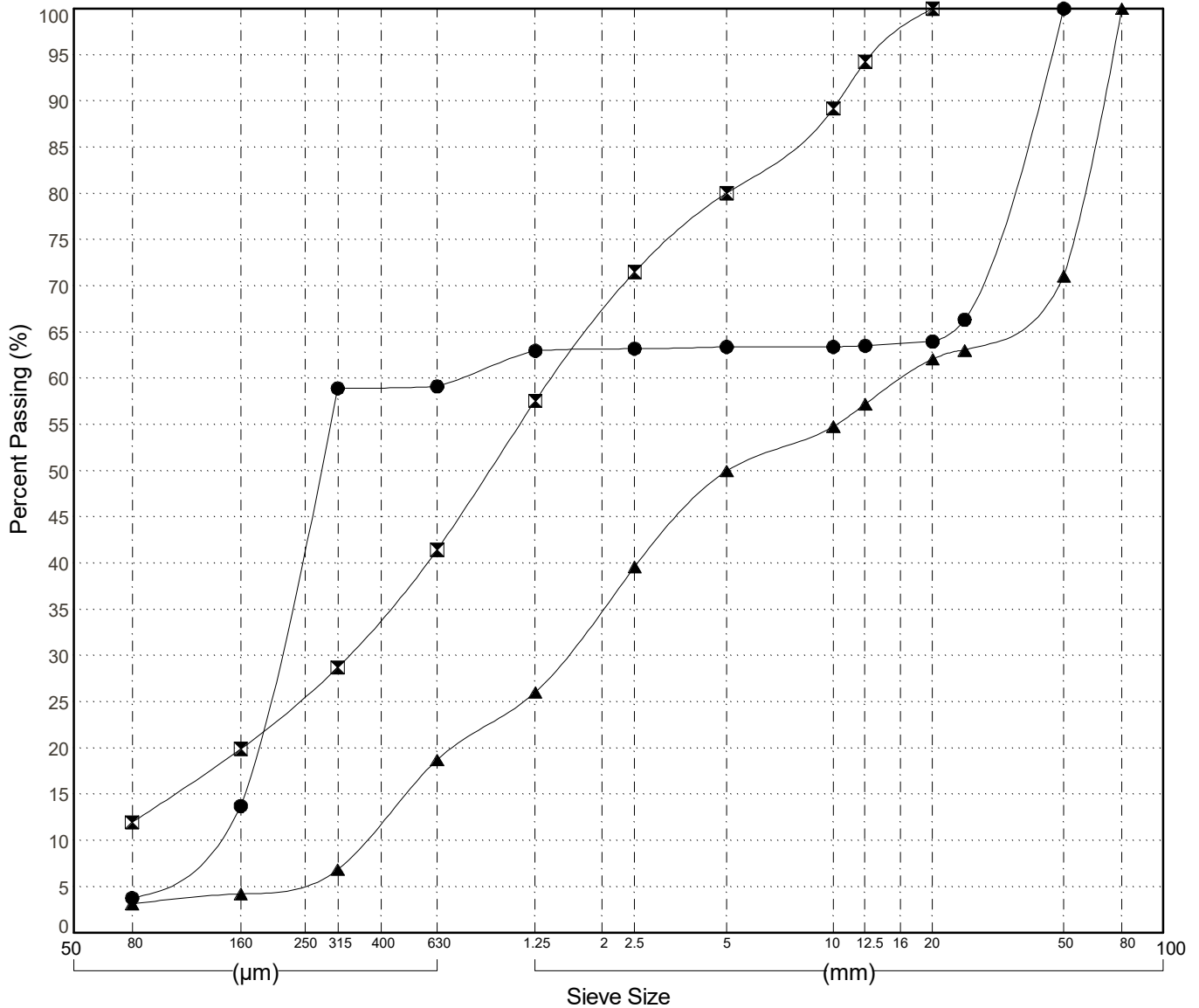
GRAIN SIZE ANALYSIS	Campbell Hwy Exploration	SOURCE/TP#: 847-5092
J.Magun Contracting	km 73.8 RHS	PROJECT NO:
Hitachi 200 LC	Coordinates:Z09V N6719613.8m E491370.7m	ELEVATION: m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 60	458	0.5 to 0.9	POORLY GRADED SAND with GRAVEL(SP)	2.8	NP	NP	NP	0.5	6.1
☒ 61	459	1.5 to 2.0	WELL-GRADED SAND with SILT and GRAVEL(SW-SM)	6.4	NP	NP	NP	1.3	22.7
▲ 62	460	3.5 to 4.0	POORLY GRADED GRAVEL with SAND(GP)	3.2	NP	NP	NP	0.4	43.2

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		
																Gravel	Sand	Silt/Clay
● 60	458	100.0	100.0	100.0	66.3	64.0	63.5	63.4	63.4	63.2	63.0	59.1	58.9	13.7	3.8	36.6	59.6	3.8
☒ 61	459	100.0	100.0	100.0	100.0	100.0	94.3	89.2	80.0	71.5	57.6	41.5	28.7	19.9	12.0	20.0	68.1	12.0
▲ 62	460	100.0	100.0	71.1	63.0	62.1	57.2	54.8	50.0	39.6	26.0	18.7	6.9	4.2	3.1	50.0	46.8	3.1

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: G. Kennedy
COMPILED BY: J. Hopkins
REVIEWED BY: R. Stilwell

Pit # 105A-56
Complete: 10/30/2014 12:47:00 PM
Page 1 of 1

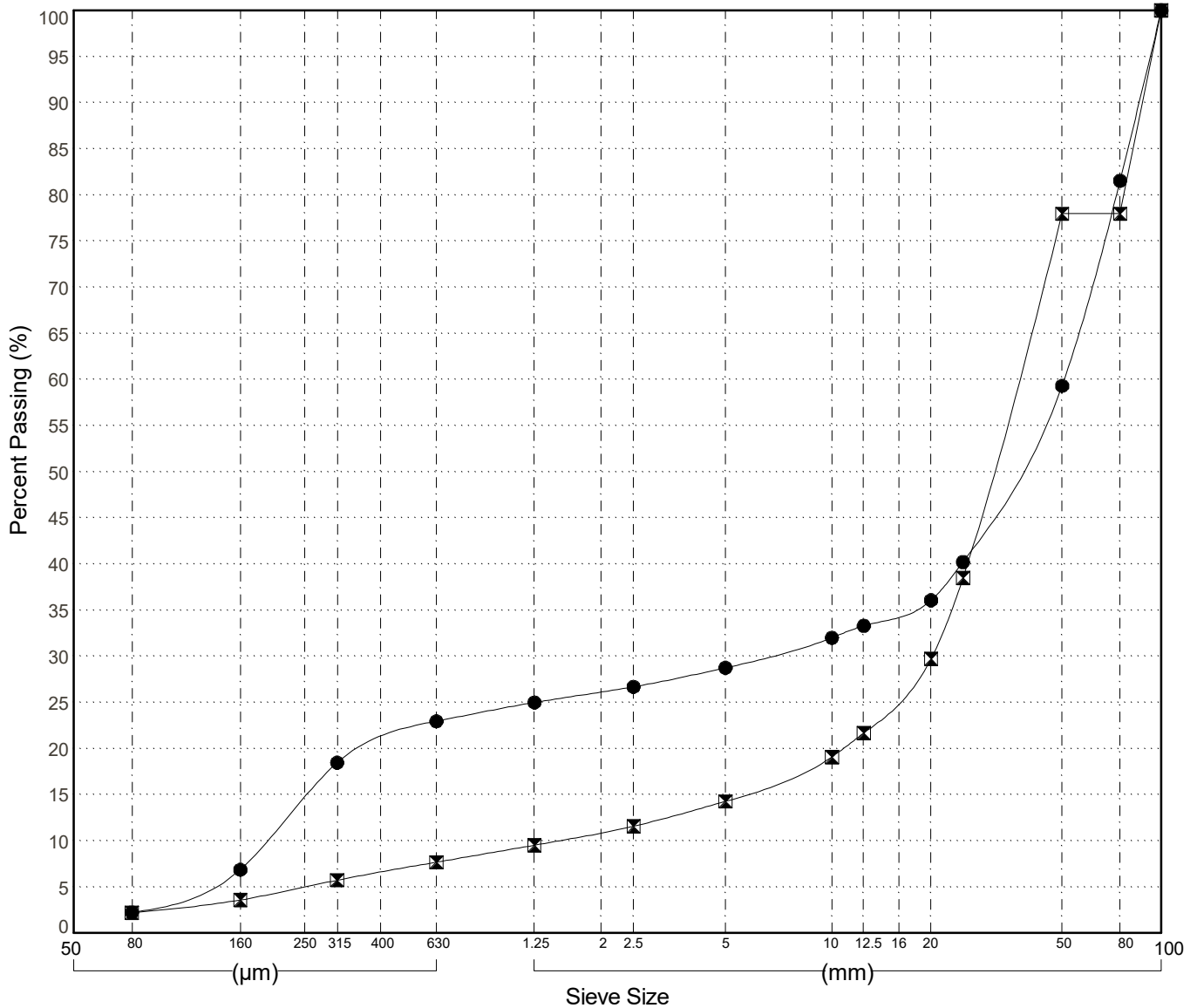
GRAIN SIZE ANALYSIS	Campbell Hwy Exploration	SOURCE/TP#: 848-5093
J.Magun Contracting	km 73.8 RHS	PROJECT NO:
Hitachi 200 LC	Coordinates:Z09V N6719700.7m E491463.2m	ELEVATION: m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 63	461	0.5 to 1.0	POORLY GRADED GRAVEL with SAND(GP)	2.3	NP	NP	NP	4.1	263.7
☒ 64	462	3.0 to 3.5	POORLY GRADED GRAVEL with SAND(GP)	2.9	NP	NP	NP	7.6	24.9
Field#	Lab#								
● 63	461								
☒ 64	462								

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
● 63	461	100.0	81.5	59.3	40.2	36.1	33.3	32.0	28.8	26.7	25.0	23.0	18.5	6.9	2.2	52.8	26.5	2.2
☒ 64	462	100.0	78.0	78.0	38.5	29.7	21.7	19.1	14.3	11.6	9.5	7.7	5.7	3.6	2.2	63.7	12.1	2.2

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: G. Kennedy
COMPILED BY: J Hopkins
REVIEWED BY: R.Stilwell

Pit # 105A-56
Complete: 10/30/2014 1:35:00 PM

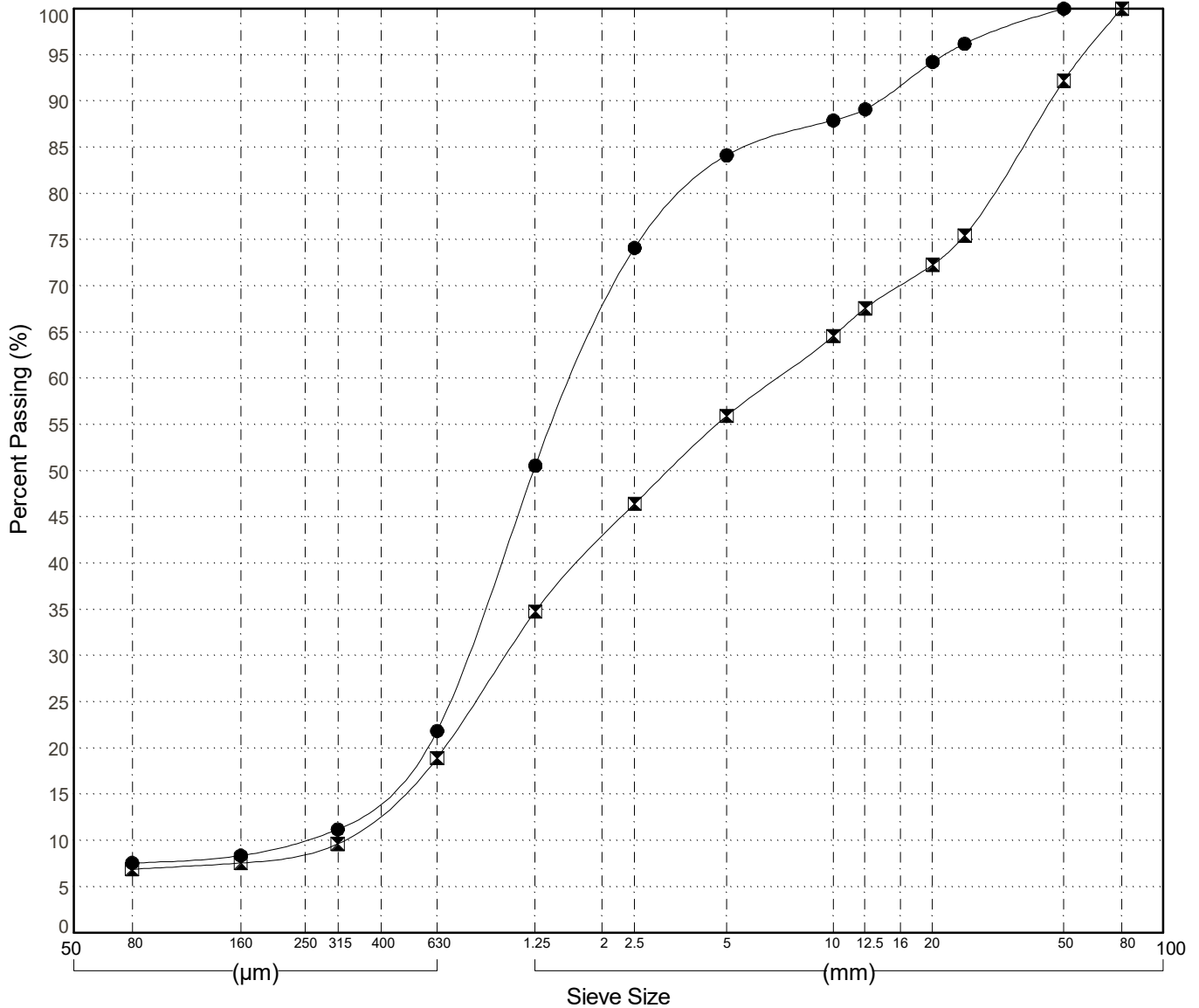
GRAIN SIZE ANALYSIS	Campbell Hwy Exploration	SOURCE/TP#: 848-5094
J.Magun Contracting	km 73.8 RHS	PROJECT NO:
Hitachi 200 LC	Coordinates:Z09V N6719702.5m E491377.4m	ELEVATION: m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H ₂ O	LL	PL	PI	C _c	C _u
● 65	463	1.0 to 1.5	WELL-GRADED SAND with SILT and GRAVEL(SW-SM)	5.9	NP	NP	NP	1.5	7.0
☒ 66	464	3.0 to 3.5	POORLY GRADED SAND with SILT and GRAVEL(SP-SM)	4.8	NP	NP	NP	0.5	20.8
Field#	Lab#								
● 65	463								
☒ 66	464								

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
● 65	463	100.0	100.0	100.0	96.2	94.2	89.1	87.9	84.1	74.1	50.6	21.8	11.2	8.4	7.6	15.9	76.5	7.6	
☒ 66	464	100.0	100.0	92.2	75.5	72.3	67.6	64.6	55.9	46.4	34.8	18.9	9.6	7.6	6.9	44.1	49.0	6.9	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



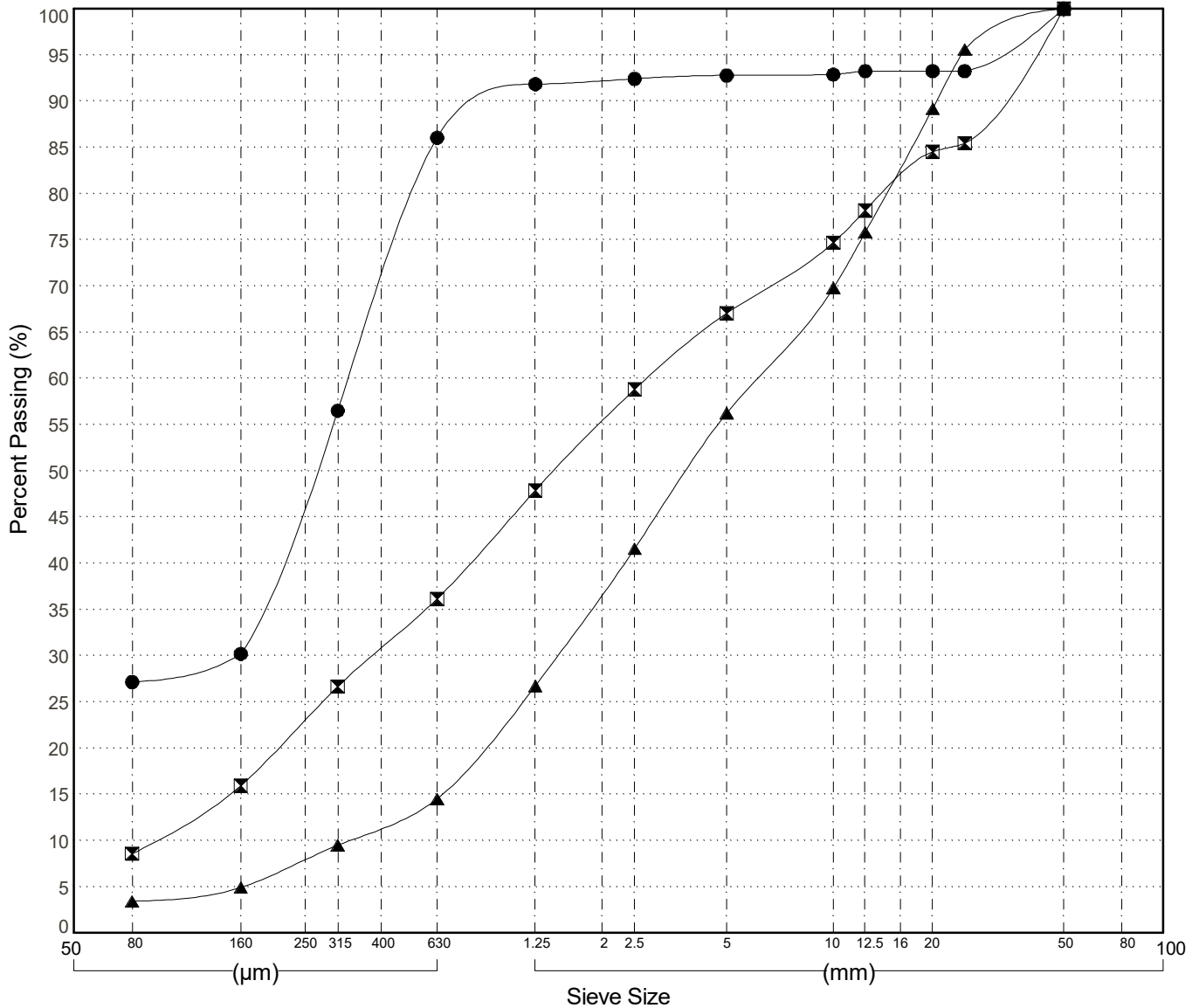
GRAIN SIZE ANALYSIS	Campbell Hwy Exploration	SOURCE/TP#: 848-5095
J.Magun Contracting	km 73.8 RHS	PROJECT NO:
Hitachi 200 LC	Coordinates:Z09V N6719871.3m E491465.1m	ELEVATION: m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 67	465	0.5 to 1.0	SILTY SAND(SM)	12.1	NP	NP	NP		
☒ 68	466	1.0 to 1.5	POORLY GRADED SAND with SILT and GRAVEL(SP-SM)	3.9	NP	NP	NP	0.7	31.6
▲ 69	467	3.0 to 3.5	WELL-GRADED SAND with GRAVEL(SW)	2.3	NP	NP	NP	1.1	17.3

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
● 67	465	100.0	100.0	100.0	100.0	93.2	93.2	93.2	92.9	92.8	92.4	91.8	86.0	56.5	30.2	27.2	7.2	65.6	27.2	
☒ 68	466	100.0	100.0	100.0	85.5	84.5	78.2	74.7	67.0	58.8	47.9	36.1	26.7	15.9	8.6	33.0	58.5	8.6		
▲ 69	467	100.0	100.0	100.0	95.6	89.2	75.8	69.8	56.2	41.6	26.7	14.5	9.5	4.9	3.4	43.8	52.8	3.4		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



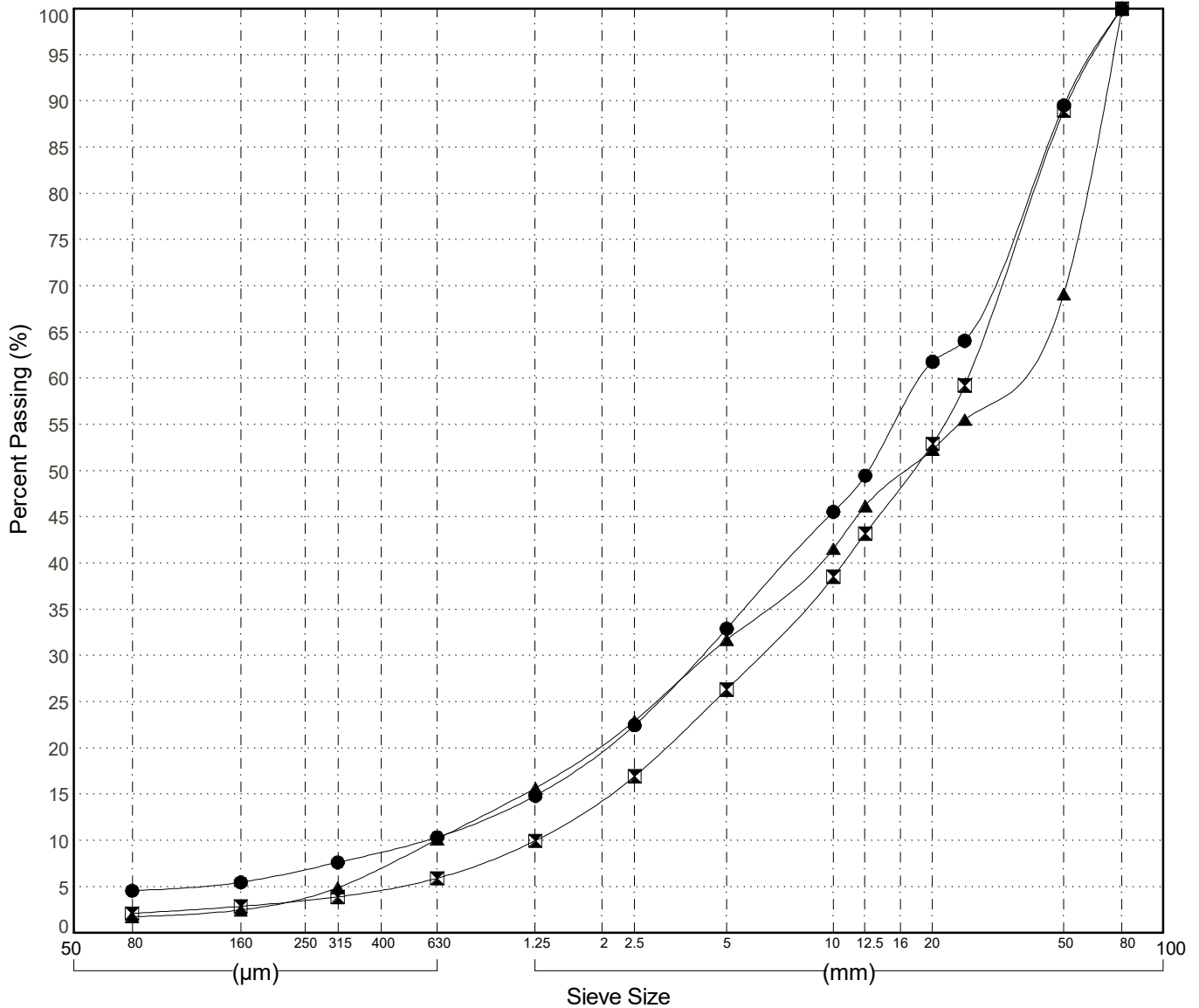
GRAIN SIZE ANALYSIS	Campbell Hwy Exploration	SOURCE/TP#: 848-5096
J.Magun Contracting	km 73.8 RHS	PROJECT NO:
Hitachi 200 LC	Coordinates:Z09V N6719941.7m E491465.9m	ELEVATION: m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 70	468	0.5 to 1.0	WELL-GRADED GRAVEL with SAND(GW)	4.2	NP	NP	NP	1.5	32.3
☒ 71	469	1.5 to 2.0	WELL-GRADED GRAVEL with SAND(GW)	4.3	NP	NP	NP	1.1	20.3
▲ 72	470	3.5 to 4.0	POORLY GRADED GRAVEL with SAND(GP)	2.8	NP	NP	NP	0.9	50.7

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
● 70	468	100.0	100.0	89.5	64.1	61.8	49.5	45.6	32.9	22.5	14.8	10.3	7.6	5.5	4.6	67.1	28.3	4.6	
☒ 71	469	100.0	100.0	89.0	59.2	52.9	43.2	38.5	26.3	16.9	10.0	5.9	3.9	2.9	2.1	73.7	24.2	2.1	
▲ 72	470	100.0	100.0	69.1	55.5	52.3	46.2	41.6	31.7	22.9	15.7	10.1	4.9	2.5	1.8	68.3	30.0	1.8	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



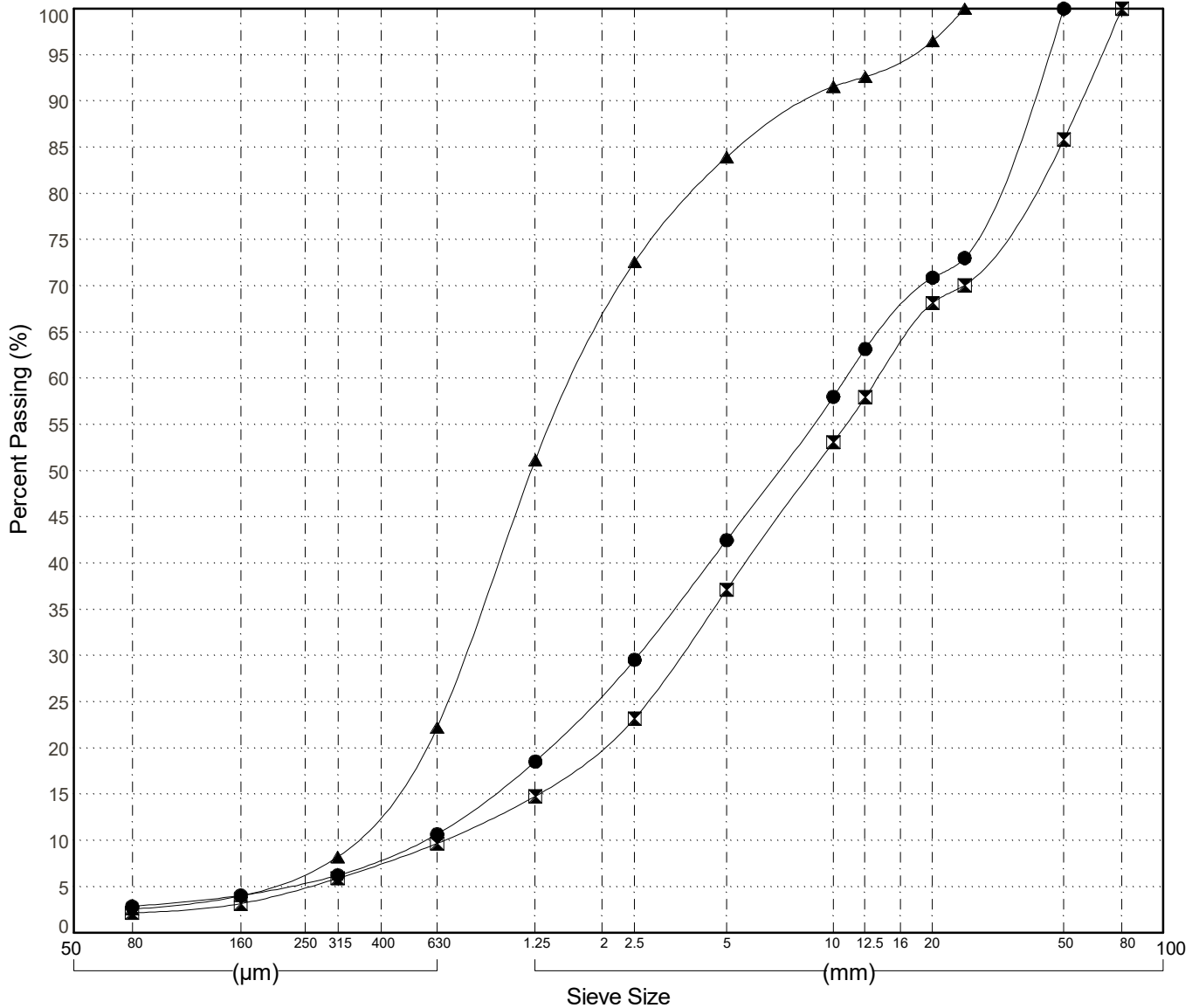
GRAIN SIZE ANALYSIS	Campbell Hwy Exploration	SOURCE/TP#: 848-5097
J.Magun Contracting	km 73.8 RHS	PROJECT NO:
Hitachi 200 LC	Coordinates:Z09V N6720026.3m E491452m	ELEVATION: m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 73	471	0.5 to 1.0	WELL-GRADED GRAVEL with SAND(GW)	5.4	NP	NP	NP	1.1	19.3
☒ 74	472	1.5 to 2.0	WELL-GRADED GRAVEL with SAND(GW)	4.4	NP	NP	NP	1.3	20.9
▲ 75	473	3.5 to 4.0	POORLY GRADED SAND with GRAVEL(SP)	4.8	NP	NP	NP	1.0	4.8

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
● 73	471	100.0	100.0	100.0	100.0	73.0	70.9	63.2	58.0	42.5	29.6	18.6	10.7	6.2	4.1	2.9	57.5	39.6	2.9
☒ 74	472	100.0	100.0	85.8	70.1	68.2	57.9	53.1	37.1	23.2	14.8	9.7	5.9	3.2	2.2	62.9	35.0	2.2	
▲ 75	473	100.0	100.0	100.0	100.0	96.5	92.6	91.6	83.9	72.6	51.2	22.2	8.2	4.0	2.6	16.1	81.4	2.6	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



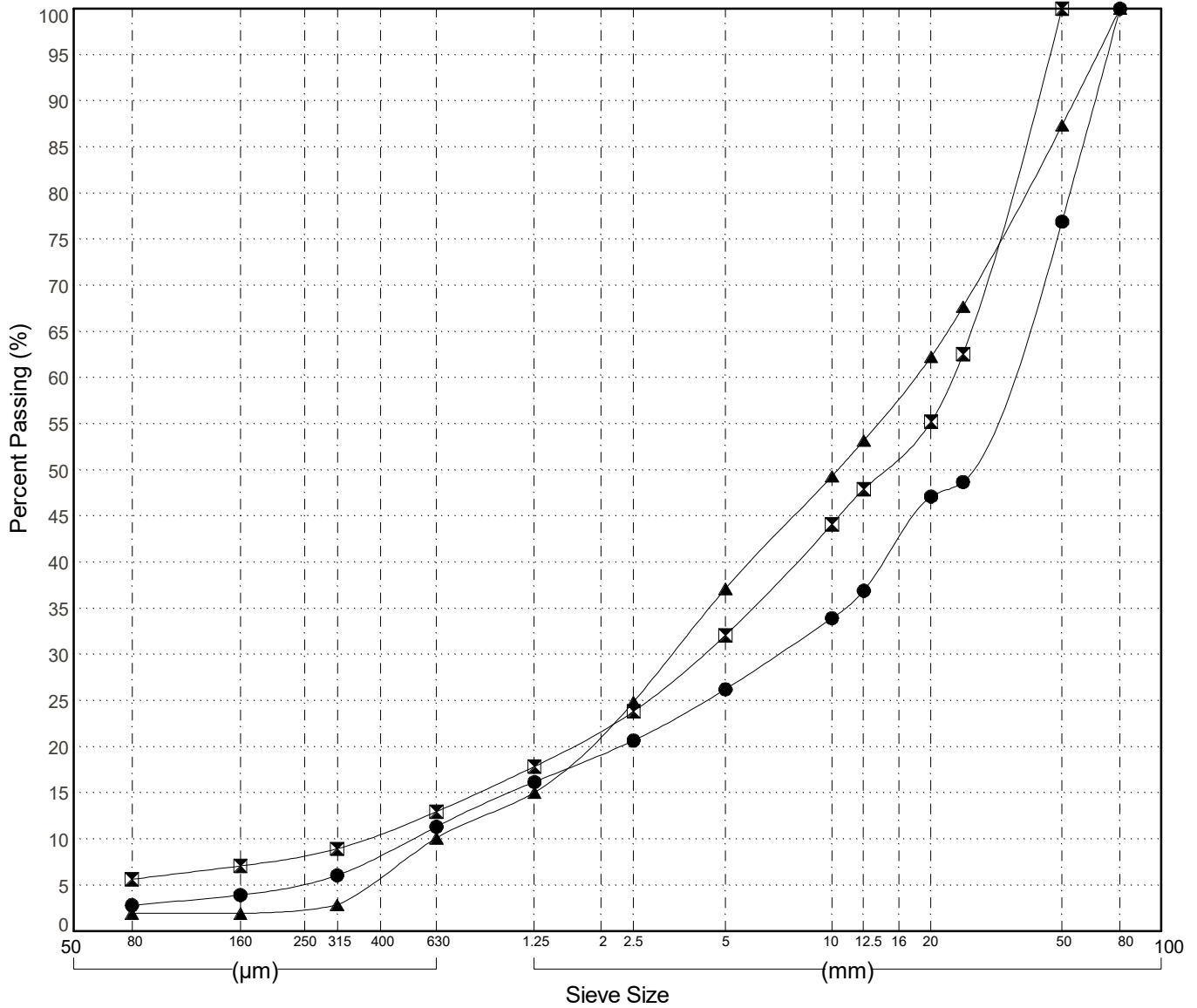
GRAIN SIZE ANALYSIS	Campbell Hwy Exploration	SOURCE/TP#: 848-5098
J.Magun Contracting	km 73.8 RHS	PROJECT NO:
Hitachi 200 LC	Coordinates:Z09V N6720122.3m E491455.9m	ELEVATION: m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 76	474	0.5 to 1.0	WELL-GRADED GRAVEL with SAND(GW)	3.9	NP	NP	NP	2.7	62.5
☒ 77	475	2.0 to 2.5	WELL-GRADED GRAVEL with SILT and SAND(GW-GM)	5.8	NP	NP	NP	1.9	61.2
▲ 78	476	3.5 to 4.0	POORLY GRADED GRAVEL with SAND(GP)	2.6	NP	NP	NP	1.0	28.5

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			
		% PASSING														Gravel	Sand	Silt	Clay
● 76	474	100.0	100.0	76.9	48.7	47.1	36.9	33.9	26.2	20.7	16.2	11.3	6.1	3.9	2.8	73.8	23.4	2.8	
☒ 77	475	100.0	100.0	100.0	62.6	55.2	47.9	44.1	32.1	23.8	17.9	13.0	8.9	7.1	5.6	67.9	26.4	5.6	
▲ 78	476	100.0	100.0	87.4	67.7	62.3	53.2	49.3	37.1	24.9	15.1	10.1	2.9	1.9	1.9	62.9	35.2	1.9	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: G. Kennedy
COMPILED BY: J Hopkins
REVIEWED BY: R.Stilwell

Pit # 105A-56
Complete: 10/31/2014 4:20:00 PM

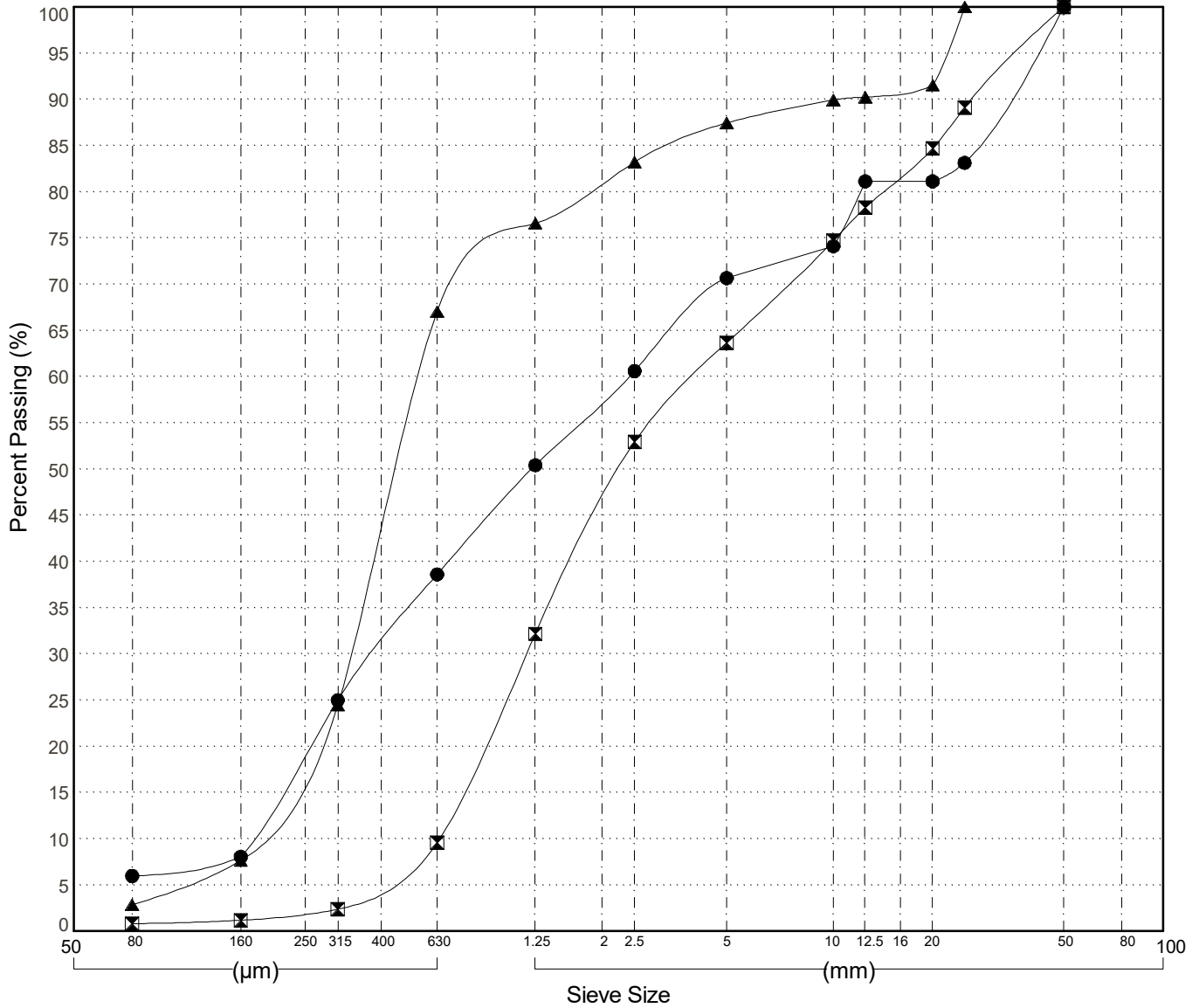
GRAIN SIZE ANALYSIS	Campbell Hwy Exploration	SOURCE/TP#: 848-5099
J.Magun Contracting	km 73.8 RHS	PROJECT NO:
Hitachi 200 LC	Coordinates:Z09V N6720122.6m E491379.7m	ELEVATION: m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 79	477	0.5 to 1.0	POORLY GRADED SAND with SILT and GRAVEL(SP-SM)	6.2	NP	NP	NP	0.4	13.9
☒ 80	478	1.5 to 2.0	POORLY GRADED SAND with GRAVEL(SP)	2.0	NP	NP	NP	0.6	6.0
▲ 81	479	3.0 to 3.5	POORLY GRADED SAND(SP)	3.7	NP	NP	NP	1.2	3.2

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
● 79	477	100.0	100.0	100.0	100.0	83.1	81.1	81.1	74.1	70.7	60.6	50.4	38.6	25.0	8.1	6.0	29.3	64.7	6.0
☒ 80	478	100.0	100.0	100.0	89.1	84.7	78.3	74.7	63.7	53.0	32.2	9.6	2.4	1.2	0.8	36.3	62.9	0.8	
▲ 81	479	100.0	100.0	100.0	100.0	91.5	90.2	89.9	87.4	83.2	76.6	67.0	24.5	7.7	2.9	12.6	84.6	2.9	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: G. Kennedy
COMPILED BY: J Hopkins
REVIEWED BY: R.Stilwell

Pit # 105A-56
Complete: 10/31/2014 5:04:00 PM

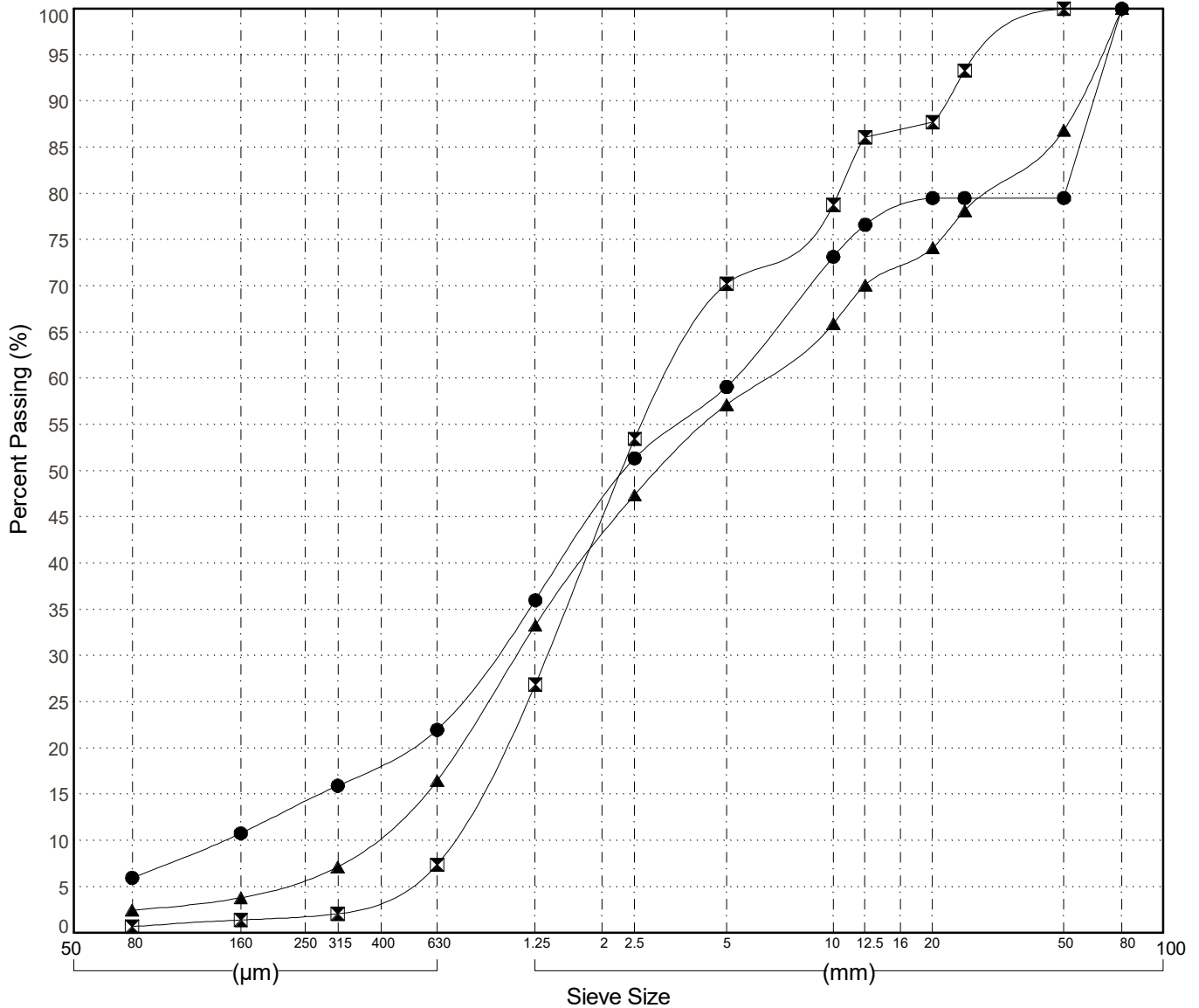
GRAIN SIZE ANALYSIS	Campbell Hwy Exploration	SOURCE/TP#: 848-5100
J.Magun Contracting	km 73.8 RHS	PROJECT NO:
Hitachi 200 LC	Coordinates:Z09V N6720216m E491432.6m	ELEVATION: m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 82	480	0.5 to 1.0	WELL-GRADED SAND with SILT and GRAVEL(SW-SM)	6.4	NP	NP	NP	1.2	35.2
☒ 83	481	2.0 to 2.5	POORLY GRADED SAND with GRAVEL(SP)	4.5	NP	NP	NP	0.8	4.7
▲ 84	482	3.0 to 3.5	POORLY GRADED SAND with GRAVEL(SP)	4.4	NP	NP	NP	0.5	15.5

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
● 82	480	100.0	100.0	100.0	79.5	79.5	79.5	76.6	73.2	59.1	51.4	36.0	22.0	15.9	10.8	6.0	40.9	53.1	6.0	
☒ 83	481	100.0	100.0	100.0	93.3	87.7	86.1	78.8	70.2	53.5	26.9	7.4	2.1	1.4	0.7	29.8	69.5	0.7		
▲ 84	482	100.0	100.0	86.8	78.1	74.1	70.1	65.9	57.2	47.4	33.3	16.5	7.1	3.8	2.5	42.8	54.7	2.5		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



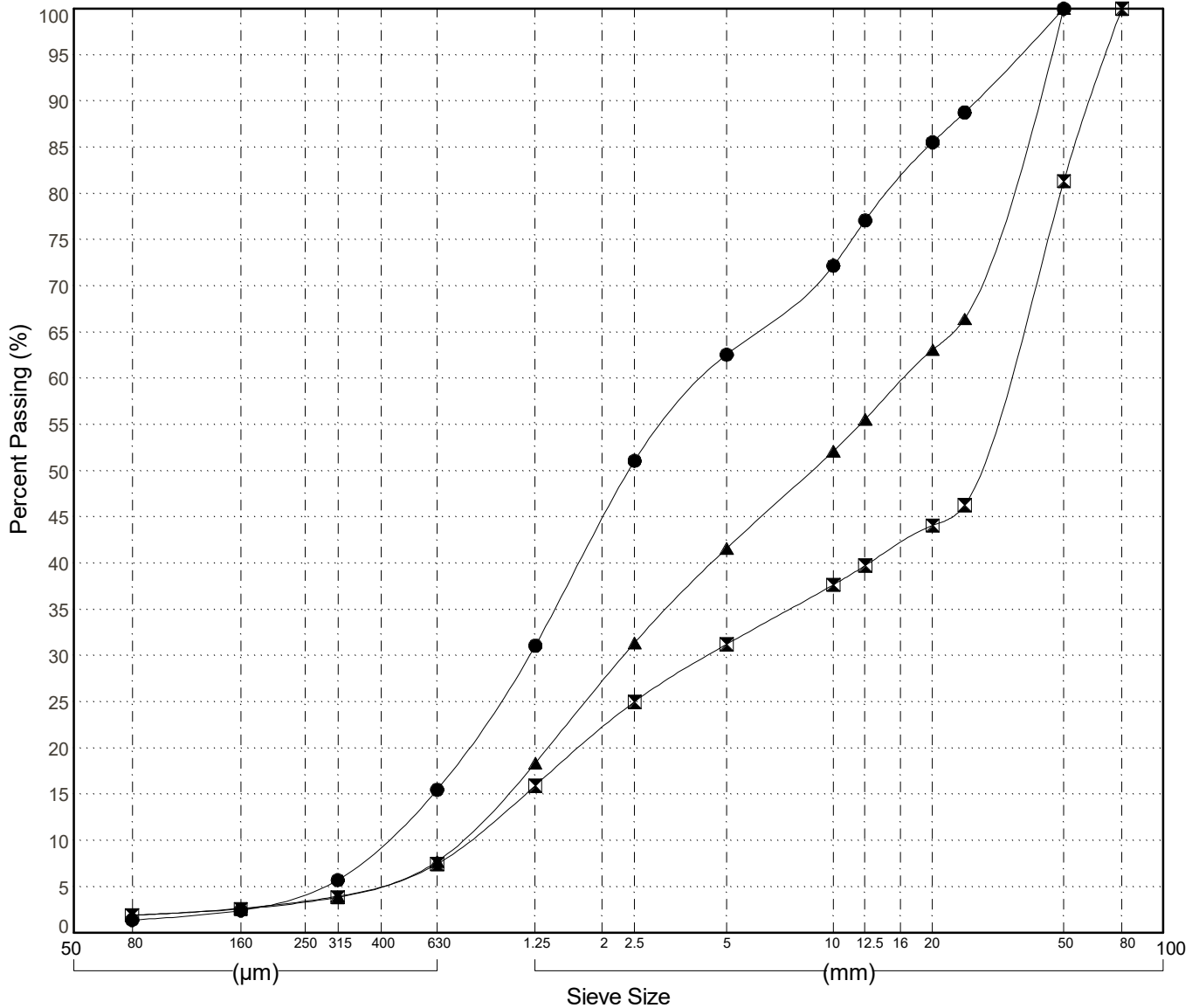
GRAIN SIZE ANALYSIS	Campbell Hwy Exploration	SOURCE/TP#: 848-5101
J.Magun Contracting	km 73.8 RHS	PROJECT NO:
Hitachi 200 LC	Coordinates:Z09V N6720226.1m E491361.3m	ELEVATION: m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 85	483	0.5 to 1.0	POORLY GRADED SAND with GRAVEL(SP)	4.8	NP	NP	NP	0.8	9.6
☒ 86	484	2.0 to 2.5	POORLY GRADED GRAVEL with SAND(GP)	3.1	NP	NP	NP	0.7	42.4
▲ 87	485	3.5 to 4.0	POORLY GRADED GRAVEL with SAND(GP)	3.8	NP	NP	NP	0.4	22.6

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
● 85	483	100.0	100.0	100.0	100.0	88.8	85.6	77.1	72.2	62.6	51.1	31.1	15.5	5.7	2.4	1.4	37.4	61.2	1.4
☒ 86	484	100.0	100.0	81.3	46.3	44.1	39.8	37.7	31.2	25.0	15.9	7.5	3.9	2.6	1.9	68.8	29.3	1.9	
▲ 87	485	100.0	100.0	100.0	66.4	63.1	55.6	52.1	41.6	31.4	18.4	7.7	4.0	2.7	1.9	58.4	39.7	1.9	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



Highways and Public Works
Transportation Engineering Branch

LOGGED BY: G. Kennedy
COMPILED BY: J Hopkins
REVIEWED BY: R.Stilwell

Pit # 105A-56
Complete: 11/1/2014 10:56:00 AM

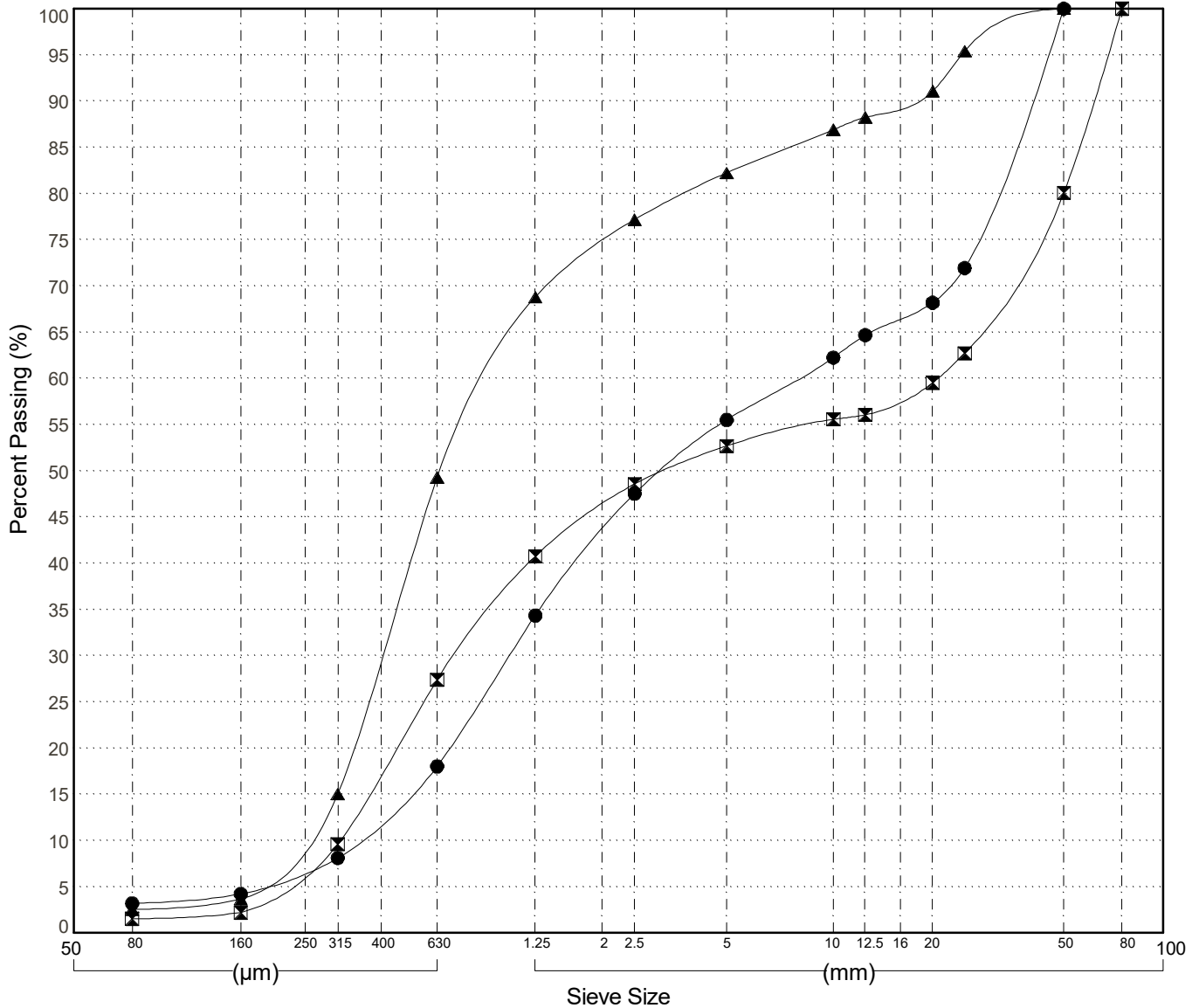
GRAIN SIZE ANALYSIS	Campbell Hwy Exploration	SOURCE/TP#: 848-5102
J.Magun Contracting	km 73.8 RHS	PROJECT NO:
Hitachi 200 LC	Coordinates:Z09V N6720337.9m E491421.1m	ELEVATION: m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 88	486	0.5 to 1.0	POORLY GRADED SAND with GRAVEL(SP)	5.2	NP	NP	NP	0.4	21.7
☒ 89	487	1.5 to 2.0	POORLY GRADED SAND with GRAVEL(SP)	3.7	NP	NP	NP	0.1	64.7
▲ 90	488	3.0 to 3.5	POORLY GRADED SAND with GRAVEL(SP)	5.9	NP	NP	NP	0.8	3.9

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
● 88	486	100.0	100.0	100.0	100.0	71.9	68.2	64.7	62.2	55.5	47.5	34.3	18.0	8.1	4.2	3.2	44.5	52.3	3.2
☒ 89	487	100.0	100.0	80.1	62.7	59.5	56.1	55.6	52.7	48.6	40.8	27.4	9.6	2.2	1.5	47.3	51.1	1.5	
▲ 90	488	100.0	100.0	100.0	95.4	91.1	88.2	86.9	82.2	77.2	68.8	49.3	15.0	3.7	2.5	17.8	79.7	2.5	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



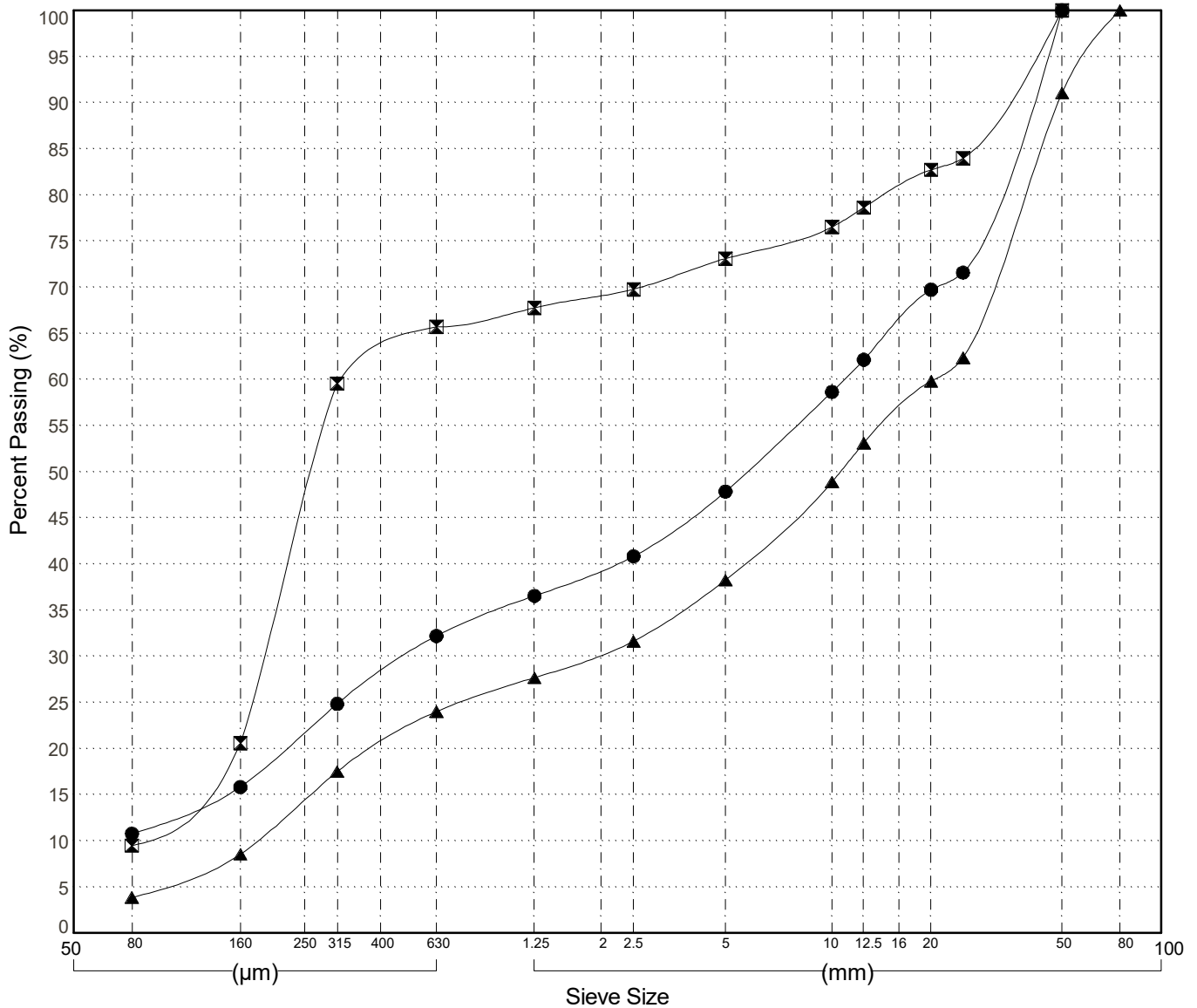
GRAIN SIZE ANALYSIS	Campbell Hwy Exploration	SOURCE/TP#: 848-5103
J.Magun Contracting	km 73.8 RHS	PROJECT NO:
Hitachi 200 LC	Coordinates:Z09V N6719934.3m E491380.6m	ELEVATION: m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 91	489	0.5 to 1.0	POORLY GRADED GRAVEL with SILT and SAND(GP-GM)	7.9	NP	NP	NP	0.4	163.5
☒ 92	490	1.5 to 2.0	POORLY GRADED SAND with SILT and GRAVEL(SP-SM)	7.7	NP	NP	NP	1.4	4.3
▲ 93	491	3.0 to 3.5	POORLY GRADED GRAVEL with SAND(GP)	4.3	NP	NP	NP	1.0	113.8

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
● 91	489	100.0	100.0	100.0	100.0	71.6	69.7	62.1	58.6	47.8	40.8	36.5	32.2	24.8	15.8	10.8	52.2	37.1	10.8	
☒ 92	490	100.0	100.0	100.0	84.0	82.7	78.6	76.5	73.1	69.8	67.8	65.7	59.6	20.6	9.5		26.9	63.6	9.5	
▲ 93	491	100.0	100.0	91.0	62.4	59.8	53.1	48.9	38.3	31.6	27.7	24.0	17.5	8.5	3.9		61.7	34.4	3.9	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



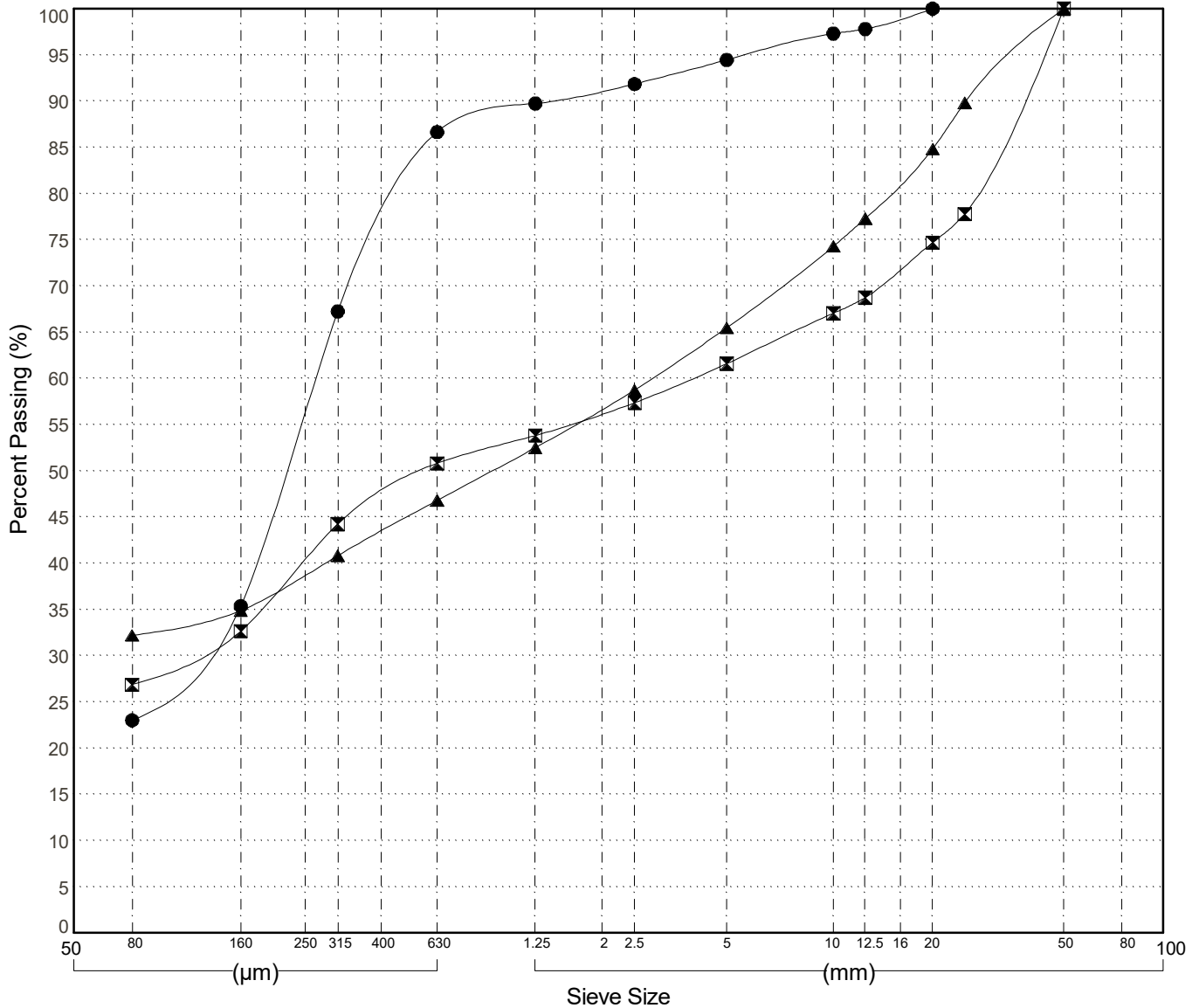
GRAIN SIZE ANALYSIS	Campbell Hwy Exploration	SOURCE/TP#: 848-5104
J.Magun Contracting	km 73.8 RHS	PROJECT NO:
Hitachi 200 LC	Coordinates:Z09V N6719951.9m E491287.9m	ELEVATION: m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H ₂ O	LL	PL	PI	C _c	C _u
● 94	492	0.5 to 1.0	SILTY SAND(SM)	13.0	NP	NP	NP		
☒ 95	493	1.5 to 2.0	SILTY GRAVEL with SAND(GM)	8.5	NP	NP	NP		
▲ 96	494	2.0 to 2.5	SILTY GRAVEL with SAND(GM)	9.5	NP	NP	NP		

Field#	Lab#	% PASSING	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			
			Gravel	Sand	Silt	Clay														
● 94	492	100.0	100.0	100.0	100.0	100.0	97.8	97.3	94.5	91.8	89.7	86.7	67.2	35.4	23.0	5.5	71.5	23.0		
☒ 95	493	100.0	100.0	100.0	77.8	74.7	68.7	67.0	61.6	57.4	53.8	50.8	44.2	32.7	26.9	38.4	34.7	26.9		
▲ 96	494	100.0	100.0	100.0	89.8	84.8	77.3	74.3	65.5	58.7	52.5	46.8	40.8	34.9	32.2	34.5	33.3	32.2		

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



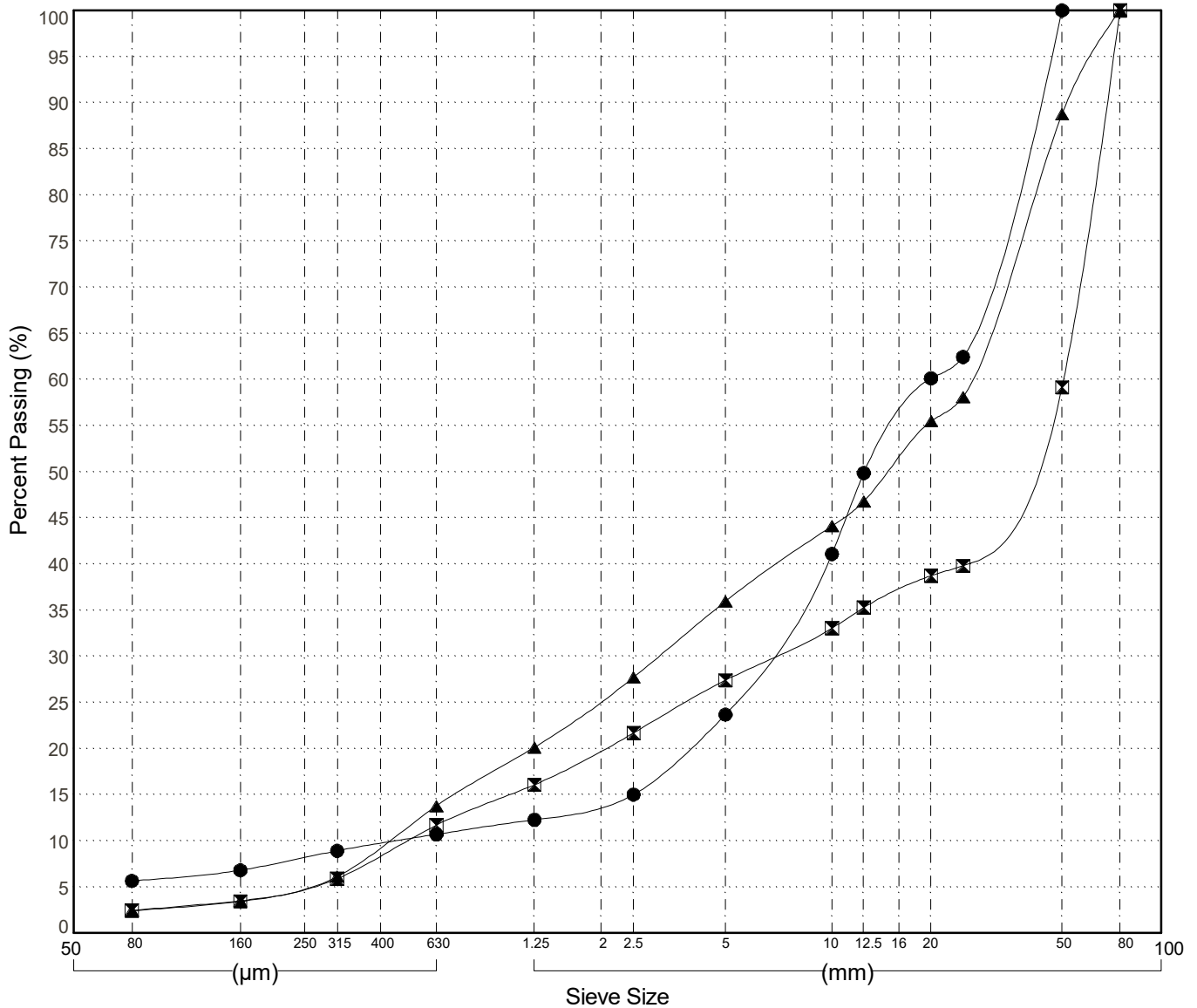
GRAIN SIZE ANALYSIS	Campbell Hwy Exploration	SOURCE/TP#: 848-5105
J.Magun Contracting	km 73.8 RHS	PROJECT NO:
Hitachi 200 LC	Coordinates:Z09V N6719859.9m E491378.2m	ELEVATION: m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 97	495	0.5 to 1.0	POORLY GRADED GRAVEL with SILT and SAND(GP-GM)	7.1	NP	NP	NP	4.1	41.5
☒ 98	496	2.0 to 2.5	WELL-GRADED GRAVEL with SAND(GW)	4.3	NP	NP	NP	1.7	98.1
▲ 99	497	3.5 to 4.0	POORLY GRADED GRAVEL with SAND(GP)	2.9	NP	NP	NP	0.8	58.3

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
● 97	495	100.0	100.0	100.0	62.4	60.1	49.9	41.1	23.7	15.0	12.3	10.7	8.9	6.8	5.7	76.3	18.0	5.7	
☒ 98	496	100.0	100.0	59.1	39.8	38.7	35.3	33.0	27.4	21.7	16.1	11.7	5.9	3.4	2.4	72.6	25.0	2.4	
▲ 99	497	100.0	100.0	88.8	58.1	55.5	46.8	44.1	35.9	27.7	20.1	13.8	6.1	3.5	2.5	64.1	33.5	2.5	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



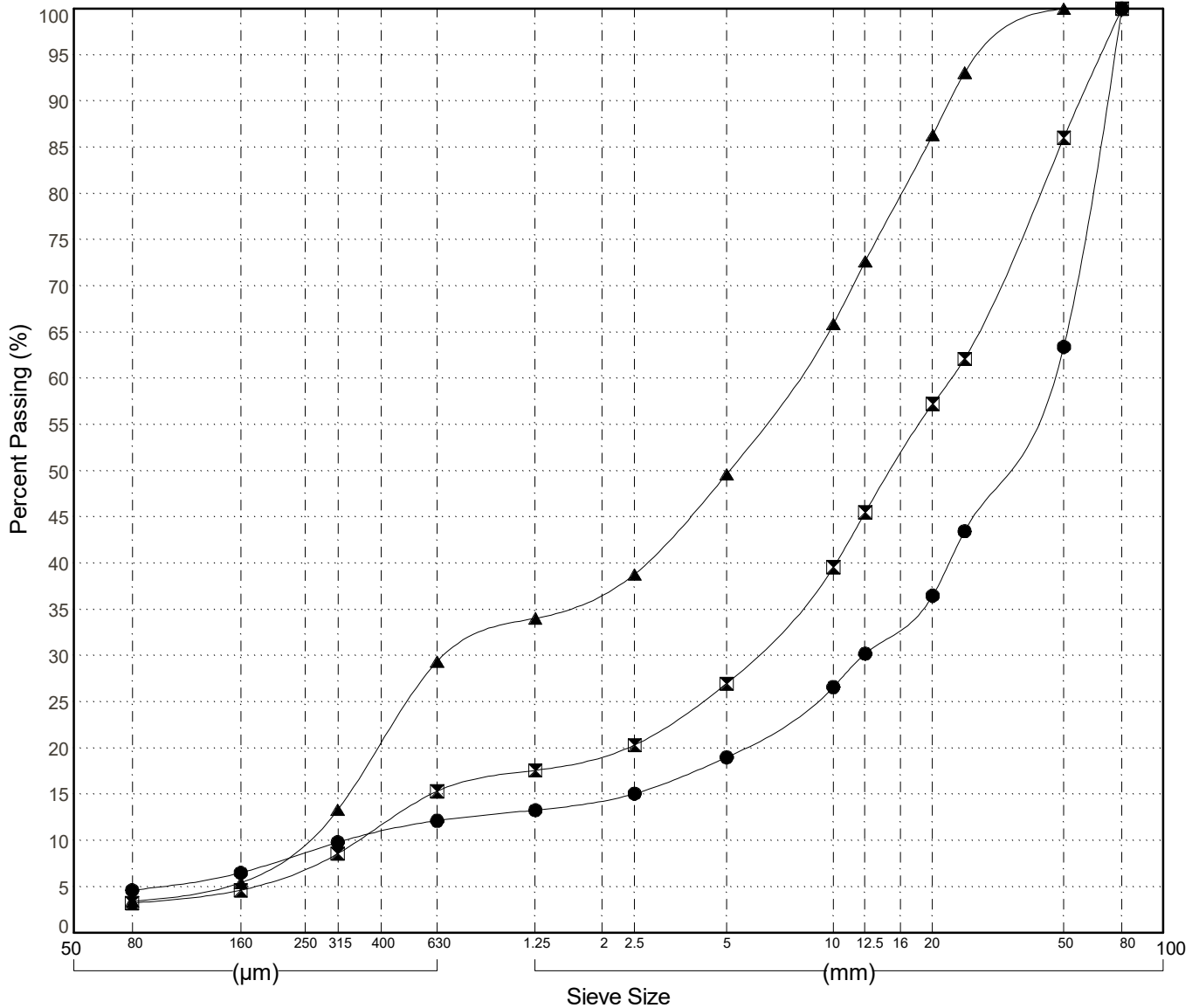
GRAIN SIZE ANALYSIS	Campbell Hwy Exploration	SOURCE/TP#: 848-5106
J.Magun Contracting	km 73.8 RHS	PROJECT NO:
Hitachi 200 LC	Coordinates:Z09V N6719787.2m E491375.5m	ELEVATION: m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 100	498	0.5 to 1.0	POORLY GRADED GRAVEL(GP)	5.5	NP	NP	NP	10.3	133.8
☒ 101	499	1.5 to 2.0	POORLY GRADED GRAVEL with SAND(GP)	5.4	NP	NP	NP	3.9	62.3
▲ 102	500	3.0 to 3.5	POORLY GRADED GRAVEL with SAND(GP)	4.7	NP	NP	NP	0.3	32.3

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			
		%PASSING														Gravel	Sand	Silt	Clay
● 100	498	100.0	100.0	63.4	43.5	36.5	30.2	26.6	19.0	15.1	13.3	12.2	9.8	6.5	4.6	81.0	14.4	4.6	
☒ 101	499	100.0	100.0	86.0	62.1	57.2	45.5	39.6	27.0	20.3	17.6	15.3	8.6	4.6	3.2	73.0	23.7	3.2	
▲ 102	500	100.0	100.0	100.0	93.1	86.3	72.7	65.9	49.6	38.8	34.0	29.4	13.3	5.4	3.4	50.4	46.2	3.4	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse



GRAIN SIZE ANALYSIS	Campbell Hwy Exploration	SOURCE/TP#: 848-5107
J.Magun Contracting	km 73.8 RHS	PROJECT NO:
Hitachi 200 LC	Coordinates:Z09V N6719701.7m E491375m	ELEVATION: m

Master Revised July 2013

Field#	Lab#	Depth	Classification	%H2O	LL	PL	PI	Cc	Cu
● 103	501	0.5 to 1.0	POORLY GRADED GRAVEL(GP)	3.0	NP	NP	NP	3.5	23.8
☒ 104	502	2.0 to 2.5	WELL-GRADED GRAVEL with SAND(GW)	3.0	NP	NP	NP	1.5	66.0
▲ 105	503	3.5 to 4.0	WELL-GRADED GRAVEL with SAND(GW)	2.6	NP	NP	NP	2.2	27.1

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			
																Gravel	Sand	Silt	Clay
● 103	501	100.0	100.0	83.4	48.4	42.7	30.6	25.9	16.3	11.6	9.9	8.9	7.4	5.0	3.2	83.7	13.1	3.2	
☒ 104	502	100.0	100.0	100.0	65.6	58.1	45.9	42.0	33.4	28.0	24.5	19.9	9.7	4.7	2.5	66.6	30.9	2.5	
▲ 105	503	100.0	100.0	100.0	92.6	87.8	71.0	63.3	42.3	29.8	24.6	19.7	9.4	3.9	2.1	57.7	40.2	2.1	

Silt	Sand			Gravel	
	Fine	Medium	Coarse	Fine	Coarse

