

18 December 2025

Project No.: LM25-50616

Attention: Mr. Dwight Peregrym
DJ Hog Farms Ltd.
Email: djhogs@telus.net

**Re: Logging of Subsurface Soils
Test Pits
LSD NE-22-49-4 W4M
South of Islay, Alberta**

1.0 INTRODUCTION

SolidEarth Geotechnical Inc. (SolidEarth) was requested by Mr. Dwight Peregrym (client) to log the soil profile encountered at various test pit locations. The subgrade investigation was completed within LSD NE-22-49-4 W4M south of Islay, Alberta. The scope of work completed by SolidEarth included field logging of encountered soils, lab testing, and preparation of this letter report.

2.0 FIELD DRILLING AND TESTING

The test pit locations were selected and marked in the field by the client. The test pit location plan is presented in Appendix A.

The subsurface investigation consisted of excavating a total of twelve (12) test pits. Test pits TP25-01 through TP25-12 were excavated on 1 December 2025. The test pits were advanced to either the depth indicated on-site by the client or the maximum reach of the excavator, whichever came first. The test pit depths ranged between 3 and 3.8 m below the existing ground surface. The client subcontracted Aultman Construction Ltd. of Blackfoot, Alberta, to excavate the test pits.

A SolidEarth geotechnical technologist monitored the drilling operations and logged the recovered soil samples from the auger cuttings. The soils were logged according to the Modified Unified Soil Classification System, which is described in the Explanation of Terms and Symbols in Appendix B. Due to the method by which the excavated soil were returned to surface, the

depths noted on the borehole logs may vary by ± 0.3 m from those recorded. The logged soil profiles are presented on the borehole logs, Appendix B.

The lateral coordinates (northing and easting) of the borehole locations were recorded by the SolidEarth representative using a hand-held GPS unit. These coordinates are shown on the borehole logs, Appendix B.

Laboratory testing was conducted on two samples of aggregate materials recovered from the test pits. Results of sieve testing completed are shown in Appendix C.

3.0 CLOSURE

The information presented in this letter report and borehole logs is based on SolidEarth's experience with similar soil. It should be noted that soil conditions by nature can vary across any given site.

This letter report was prepared for the exclusive use of Mr. Dwight Peregrym for the specific application described in this letter report. No other warranties expressed or implied are provided. This letter report has been prepared within generally accepted geotechnical engineering practices.

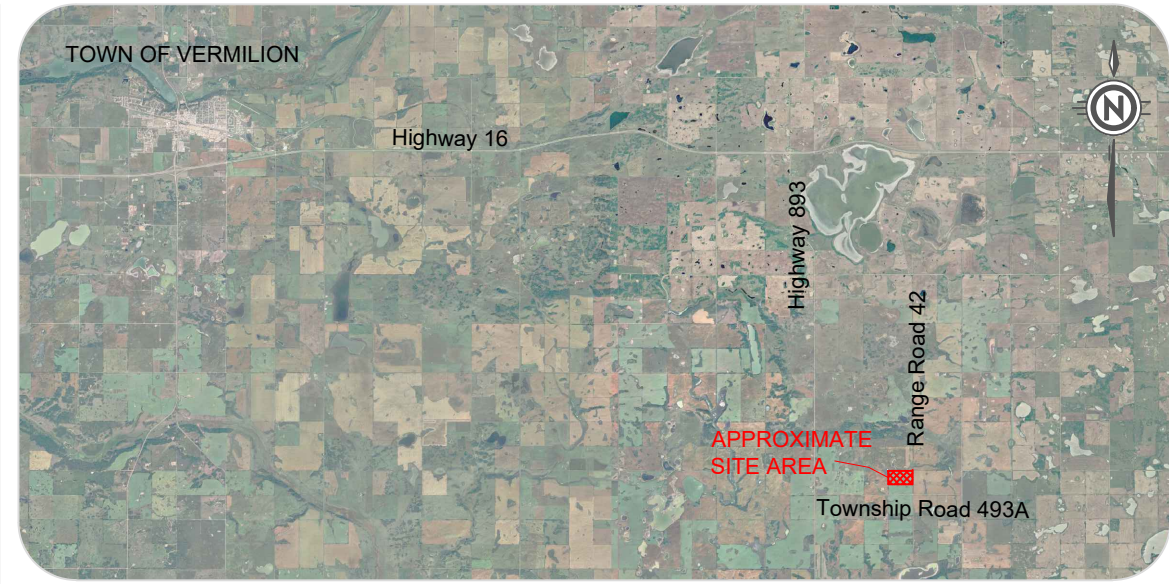
Respectfully submitted,
SolidEarth Geotechnical Inc.



Karl Jory, P.Eng.
Geotechnical Engineer

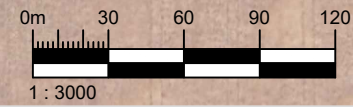
Appendix A

Borehole Location Map



Legend:
 Test Pit

Google Earth Pro® August 2024 Aerial Image



SCALE: As Shown	DRAWN BY: HC	FIGURE No.: 1	REVISION No.: 0	PROJECT NAME: Subsurface Test Pitting Within NE-22-49-4 W4M	CLIENT: DJ Hog Farm Ltd.
	DATE: December 2025	PROJECT No.: LM25-50616	DRAWING TITLE: Test Pit Location Plan		
DATUM: -			SolidEarth Geotechnical Inc. 5406 52 Avenue, Lloydminster, AB, T9V 2T5		

Appendix B

Borehole Logs

Explanation of Terms and Symbols

C:\USERS\KARL\JOY\SOLIDEARTH\GEO\TECHNICAL\SEG - DOCS\1-PROJECTS\3-MATERIALS\3-LD\2025\LM25-50616-DS HOG FARMS-TEST PITS\4-REPORT\LM25-50616-DJ HOG FARMS-GRAVEL TEST PITS.GPJ 25-12-19 10:15 AM (SEG-FINAL)

Project Name: Test Pits
 Client Name: DJ Hog Farms Ltd.
 Site: Within Portions of NE-22-49-4 W4M
 Northing: 5899934 Easting: 533276
 Elevation: _____

Borehole #: TP25-01
 Project #: LM25-50616
 Logged By: JS / Reviewed By: KJ
 Driller: Aultman Construction Ltd.
 Drill Method: Excavator

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Completion Date: 25-12-1

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Depth (m)	SPT N Value		Soil Symbol	USCS	Material Description	Sample Symbol	Sample #	SPT (N-Value)	BACKFILL DETAILS	Additional Data & Notes	Depth (m)
	20	40									
0	Plastic M.C. Liquid			OR	TOPSOIL (~200 mm Thick) , black, dry						
	20 40 60 80			GW	GRAVEL , fine to coarse grained, sandy, trace boulders, trace cobbles, trace silt, trace clay, well graded, brown, dry - becoming trace to some silt, trace gravel, grey brown						
1	20 40 60 80			CI	CLAY (TILL) , and silt to silty, some sand, trace gravel, medium plastic, grey brown, trace oxides, trace silt partings, moist - becoming trace sand lenses						
2	100 200 300 400										
3											
4											
5											

COMPLETION DEPTH: 3.4 m below ground surface

At Completion
 No accumulation of water.
 Testpit backfilled with excavated material.

Sample Symbol	Shelby Tube	No Recovery	SPT Test (N)	Grab Sample	Split-Pen	Core
Backfill Symbol	Bentonite	Pea Gravel	Slough	Grout	Drill Cuttings	Sand

C:\USERS\KARL\JORY\SOLIDEARTH\GEO\TECHNICAL\SEG - DOCS\1-PROJECTS\3-MATERIALS\3-LD\2025\LM25-50616-DS HOG FARMS-TEST PITS\4-REPORT\LM25-50616-DJ HOG FARMS-GRAVEL TEST PITS.GPJ 25-12-19 10:15 AM (SEG-FINAL)

Project Name: Test Pits
 Client Name: DJ Hog Farms Ltd.
 Site: Within Portions of NE-22-49-4 W4M
 Northing: 5899944 Easting: 533289
 Elevation: _____

Borehole #: TP25-02
 Project #: LM25-50616
 Logged By: JS / Reviewed By: KJ
 Driller: Aultman Construction Ltd.
 Drill Method: Excavator

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Completion Date: 25-12-1

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Depth (m)	SPT N Value		Soil Symbol	USCS	Material Description	Sample Symbol	Sample #	SPT (N-Value)	BACKFILL DETAILS	Additional Data & Notes	Depth (m)
	20	40									
0	Plastic M.C. Liquid				TOPSOIL (~125 mm Thick) , trace gravel, black, dry						
	20 40 60 80				GRAVEL , fine to coarse grained, sandy, trace boulders, trace cobbles, trace silt, trace clay, well graded, brown, dry						
	20 40 60 80										
	100 200 300 400										
	◆ Pocket Pen (kPa)										
1					SAND , fine grained, trace gravel, trace silt, trace clay, poorly graded, brown, dry						1
2					- becoming damp						2
3					CLAY (TILL) , and silt to silty, some sand, trace gravel, medium plastic, grey brown, trace silt partings, moist						3
4					COMPLETION DEPTH: 3.0 m below ground surface						4
					<u>At Completion</u> No accumulation of water. Testpit backfilled with excavated material.						
5											5

Sample Symbol	Shelby Tube	No Recovery	SPT Test (N)	Grab Sample	Split-Pen	Core
Backfill Symbol	Bentonite	Pea Gravel	Slough	Grout	Drill Cuttings	Sand

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Project Name: Test Pits
 Client Name: DJ Hog Farms Ltd.
 Site: Within Portions of NE-22-49-4 W4M
 Northing: 5899961 Easting: 533313
 Elevation: _____

Borehole #: TP25-03
 Project #: LM25-50616
 Logged By: JS / Reviewed By: KJ
 Driller: Aultman Construction Ltd.
 Drill Method: Excavator

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Completion Date: 25-12-1
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Depth (m)	SPT N Value		Soil Symbol	USCS	Material Description	Sample Symbol	Sample #	SPT (N-Value)	BACKFILL DETAILS	Additional Data & Notes	Depth (m)
	20	40									
0				OR	TOPSOIL (~150 mm Thick) , black, dry						
				GW	GRAVEL , fine to coarse grained, sandy, trace boulders, trace cobbles, trace silt, trace clay, well graded, brown, dry						
1				Cl	CLAY (TILL) , and silt, some sand, trace gravel, medium plastic, grey brown, trace oxides, trace silt partings, moist						1
2					- sand seam, ~200 mm thick						2
					- becoming moist to very moist						
3											3
					COMPLETION DEPTH: 3.4 m below ground surface						
4					<u>At Completion</u> No accumulation of water. Testpit backfilled with excavated material.						4
5											5

Sample Symbol	Shelby Tube	No Recovery	SPT Test (N)	Grab Sample	Split-Pen	Core
Backfill Symbol	Bentonite	Pea Gravel	Slough	Grout	Drill Cuttings	Sand

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Project Name: Test Pits
 Client Name: DJ Hog Farms Ltd.
 Site: Within Portions of NE-22-49-4 W4M
 Northing: 5899939 Easting: 533227
 Elevation: _____

Borehole #: TP25-04
 Project #: LM25-50616
 Logged By: JS / Reviewed By: KJ
 Driller: Aultman Construction Ltd.
 Drill Method: Excavator

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Depth (m)	SPT N Value		Soil Symbol	USCS	Material Description	Sample Symbol	Sample #	SPT (N-Value)	BACKFILL DETAILS	Additional Data & Notes	Depth (m)							
	20	40										60	80					
0	Plastic M.C. Liquid			OR	<p>TOPSOIL (~115 mm Thick) trace to some gravel, trace cobbles, black, dry</p> <p>GRAVEL, fine to course grained, sandy, trace to some cobbles, trace boulders, trace silt, trace clay, well graded, brown, dry</p>						0							
1	Plastic M.C. Liquid										GW	<p>CLAY (TILL), and silt, some sand, trace gravel, medium plastic, grey brown, trace silt partings, moist</p>						1
2	Plastic M.C. Liquid										CI							<p>SAND, fine grained, trace silt, trace clay, poorly graded, brown, moist</p> <p>COMPLETION DEPTH: 3.4 m below ground surface</p> <p><u>At Completion</u> No accumulation of water. Testpit backfilled with excavated material.</p>
3	Plastic M.C. Liquid										SP	3						
4	Plastic M.C. Liquid										4							
5	Plastic M.C. Liquid										5							


Sample Symbol: Shelby Tube
 No Recovery
 SPT Test (N)
 Grab Sample
 Split-Pen
 Core

Backfill Symbol: Bentonite
 Pea Gravel
 Slough
 Grout
 Drill Cuttings
 Sand

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Project Name: Test Pits
 Client Name: DJ Hog Farms Ltd.
 Site: Within Portions of NE-22-49-4 W4M
 Northing: 5899933 Easting: 533204
 Elevation:

Borehole #: **TP25-05**
 Project #: LM25-50616
 Logged By: JS / Reviewed By: KJ
 Driller: Aultman Construction Ltd.
 Drill Method: Excavator



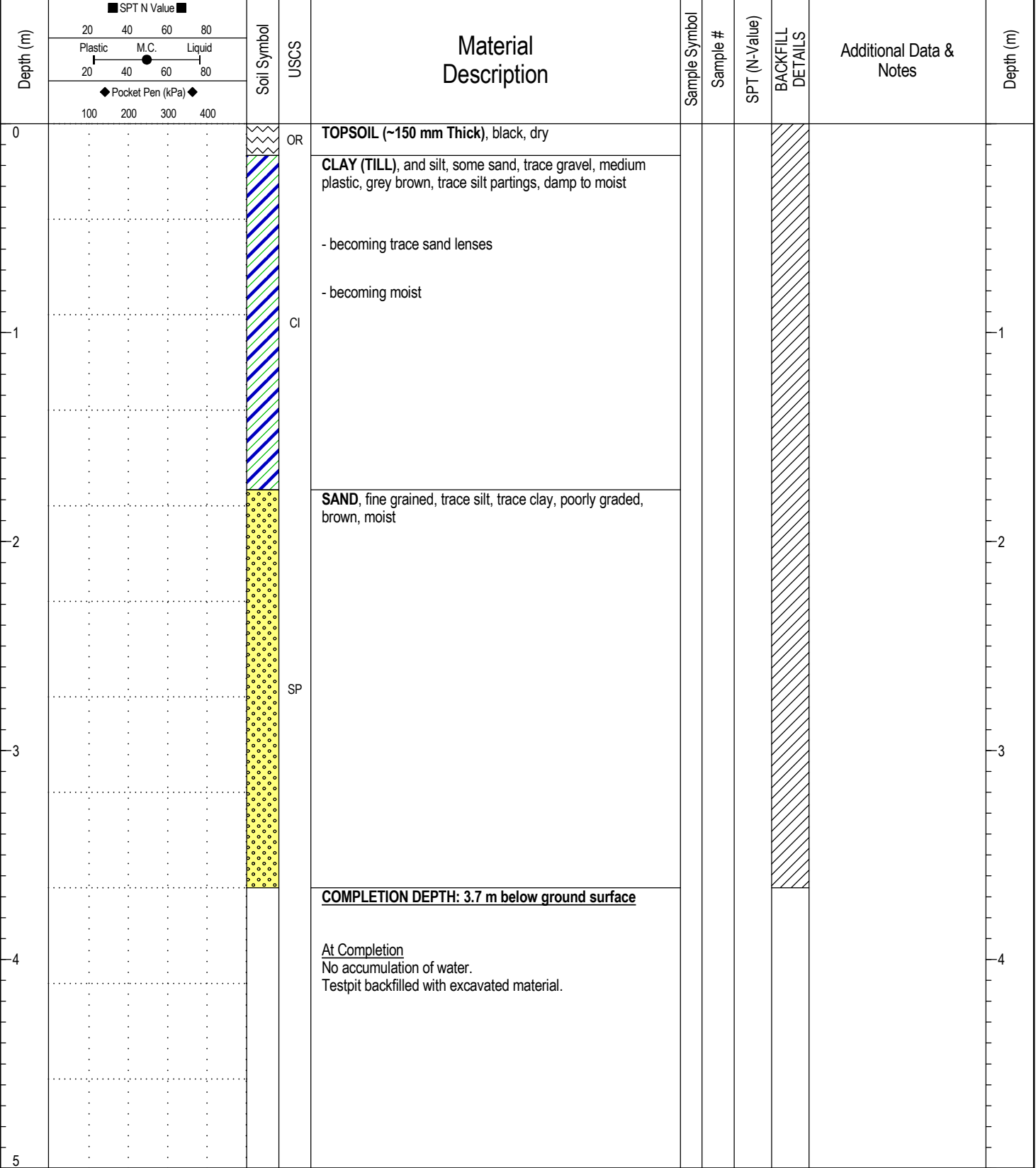
Completion Date: 25-12-1
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Depth (m)	SPT N Value		Soil Symbol	USCS	Material Description	Sample Symbol	Sample #	SPT (N-Value)	BACKFILL DETAILS	Additional Data & Notes	Depth (m)
	20	40									
0	Plastic M.C. Liquid				TOPSOIL (~200 mm Thick) , trace cobbles, black, dry						
	20 40 60 80				GRAVEL , fine to coarse grained, sandy, trace to some cobbles, trace boulders, trace silt, trace clay, well graded, brown, dry						
	20 40 60 80				CLAY (TILL) , and silt, trace to some sand, trace gravel, medium plastic, grey brown, trace oxides, trace silt partings, moist						
1	100 200 300 400				SAND , fine grained, trace silt, trace clay, poorly graded, trace oxides, brown, moist						
	100 200 300 400				COMPLETION DEPTH: 3.0 m below ground surface						
2					<i>At Completion</i> No accumulation of water. Testpit backfilled with excavated material.						
3											
4											
5											

Sample Symbol	Shelby Tube	No Recovery	SPT Test (N)	Grab Sample	Split-Pen	Core
Backfill Symbol	Bentonite	Pea Gravel	Slough	Grout	Drill Cuttings	Sand

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Project Name: Test Pits	Borehole #: TP25-06	
Client Name: DJ Hog Farms Ltd.	Project #: LM25-50616	
Site: Within Portions of NE-22-49-4 W4M	Logged By: JS / Reviewed By: KJ	Completion Date: 25-12-1
Northing: 5899976 Easting: 533178	Driller: Aultman Construction Ltd.	Page 1 of 1
Elevation:	Drill Method: Excavator	



Sample Symbol						
Backfill Symbol						

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Project Name: <u>Test Pits</u>	Borehole #: <u>TP25-07</u>	
Client Name: <u>DJ Hog Farms Ltd.</u>	Project #: <u>LM25-50616</u>	
Site: <u>Within Portions of NE-22-49-4 W4M</u>	Logged By: <u>JS / Reviewed By: KJ</u>	Completion Date: <u>25-12-1</u>
Northing: <u>5899893</u> Easting: <u>533369</u>	Driller: <u>Aultman Construction Ltd.</u>	
Elevation: _____	Drill Method: <u>Excavator</u>	Page 1 of 1

Depth (m)	<div style="font-size: 8px; margin-bottom: 5px;"> SPT N Value </div> <div style="font-size: 8px; margin-bottom: 5px;"> 20 40 60 80 </div> <div style="font-size: 8px; margin-bottom: 5px;"> Plastic M.C. Liquid </div> <div style="font-size: 8px; margin-bottom: 5px;"> 20 40 60 80 </div> <div style="font-size: 8px;"> Pocket Pen (kPa) </div> <div style="font-size: 8px;"> 100 200 300 400 </div>	Soil Symbol	USCS	Material Description	Sample Symbol	Sample #	SPT (N-Value)	BACKFILL DETAILS	Additional Data & Notes	Depth (m)
0		OR	OR	TOPSOIL (~200 mm Thick) , trace cobbles, black, dry						0
		GW	GW	GRAVEL , fine to coarse grained, sandy, trace cobbles, trace boulders, trace silt, trace clay, well graded, brown, dry						
1		SP	SP	SAND , fine grained, trace silt, trace clay, poorly graded, brown, interbedded gravel lenses, dry to moist						1
2										2
3										3
4										4
5										5

Sample Symbol		<input type="checkbox"/> No Recovery	<input checked="" type="checkbox"/> SPT Test (N)		<input type="checkbox"/> Split-Pen	
Backfill Symbol		<input type="checkbox"/> Pea Gravel	<input type="checkbox"/> Slough	<input type="checkbox"/> Grout	<input type="checkbox"/> Drill Cuttings	<input type="checkbox"/> Sand

Project Name: Test Pits
 Client Name: DJ Hog Farms Ltd.
 Site: Within Portions of NE-22-49-4 W4M
 Northing: 5899881 Easting: 533343
 Elevation:

Borehole #: **TP25-08**
 Project #: LM25-50616
 Logged By: JS / Reviewed By: KJ
 Driller: Aultman Construction Ltd.
 Drill Method: Excavator



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Depth (m)	SPT N Value		Soil Symbol	USCS	Material Description	Sample Symbol	Sample #	SPT (N-Value)	BACKFILL DETAILS	Additional Data & Notes	Depth (m)
	20	40									
0	Plastic M.C. Liquid				TOPSOIL (~300 mm Thick) , black, dry						
	20 40 60 80			OR	CLAY (TILL) , and silt, some sand, trace to some gravel, trace cobbles, low plastic, brown, damp						
	20 40 60 80			CL							
1	100 200 300 400			GW	GRAVEL , fine to coarse grained, sandy to and sand, trace cobbles, trace silt, trace clay, well graded, brown, dry						
	100 200 300 400			SP	SAND , fine grained, trace silt, trace clay, poorly graded, brown, moist						
2				CI	CLAY (TILL) , and silt, some sand, trace gravel, medium plastic, brown, damp						
3					COMPLETION DEPTH: 3.2 m below ground surface						
4					<u>At Completion</u> No accumulation of water. Testpit backfilled with excavated material.						
5											

Sample Symbol	Shelby Tube	No Recovery	SPT Test (N)	Grab Sample	Split-Pen	Core
Backfill Symbol	Bentonite	Pea Gravel	Slough	Grout	Drill Cuttings	Sand

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Project Name: <u>Test Pits</u>	Borehole #: <u>TP25-09</u>	
Client Name: <u>DJ Hog Farms Ltd.</u>	Project #: <u>LM25-50616</u>	
Site: <u>Within Portions of NE-22-49-4 W4M</u>	Logged By: <u>JS / Reviewed By: KJ</u>	Completion Date: <u>25-12-1</u>
Northing: <u>5899900</u> Easting: <u>533557</u>	Driller: <u>Aultman Construction Ltd.</u>	
Elevation: _____	Drill Method: <u>Excavator</u>	Page 1 of 1

Depth (m)	 	Soil Symbol	USCS	Material Description	Sample Symbol	Sample #	SPT (N-Value)	BACKFILL DETAILS	Additional Data & Notes	Depth (m)
0			OR	TOPSOIL (~100 mm Thick), black, dry SAND, fine grained, trace silt, trace clay, trace gravel, poorly graded, brown, dry						0
1			SP							1
2			CL	CLAY (TILL), and silt, some sand, trace gravel, low to medium plastic, brown, damp						2
3			SP	SAND, fine grained, trace silt, trace clay, poorly graded, brown, moist						3
3			CI	CLAY (TILL), and silt, some sand, trace gravel, medium plastic, grey-brown, damp						3
4				COMPLETION DEPTH: 3.2 m below ground surface <u>At Completion</u> No accumulation of water. Testpit backfilled with excavated material.						4
5										5

Sample Symbol						
Backfill Symbol						

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Project Name: Test Pits
 Client Name: DJ Hog Farms Ltd.
 Site: Within Portions of NE-22-49-4 W4M
 Northing: 5899764 Easting: 533583
 Elevation: _____

Borehole #: TP25-10
 Project #: LM25-50616
 Logged By: JS / Reviewed By: KJ
 Driller: Aultman Construction Ltd.
 Drill Method: Excavator

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Depth (m)	SPT N Value		Soil Symbol	USCS	Material Description	Sample Symbol	Sample #	SPT (N-Value)	BACKFILL DETAILS	Additional Data & Notes	Depth (m)
	20	40									
0	Plastic M.C. Liquid		OR	OR	TOPSOIL (~125 mm Thick), black, dry						
	Pocket Pen (kPa)										
1			CL	CL							
2											
3			SP	SP							
4											
5					At Completion No accumulation of water. Testpit backfilled with excavated material.						

Sample Symbol: Shelby Tube No Recovery SPT Test (N) Grab Sample Split-Pen Core
 Backfill Symbol: Bentonite Pea Gravel Slough Grout Drill Cuttings Sand

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Project Name: <u>Test Pits</u>	Borehole #: <u>TP25-11</u>	
Client Name: <u>DJ Hog Farms Ltd.</u>	Project #: <u>LM25-50616</u>	
Site: <u>Within Portions of NE-22-49-4 W4M</u>	Logged By: <u>JS / Reviewed By: KJ</u>	Completion Date: <u>25-12-1</u>
Northing: <u>5899967</u> Easting: <u>533602</u>	Driller: <u>Aultman Construction Ltd.</u>	
Elevation: _____	Drill Method: <u>Excavator</u>	Page 1 of 1

Depth (m)	 	Soil Symbol	USCS	Material Description	Sample Symbol	Sample #	SPT (N-Value)	BACKFILL DETAILS	Additional Data & Notes	Depth (m)
0			OR	TOPSOIL (~100 mm Thick), black, dry SAND, fine grained, trace to some silt, trace to some clay, trace gravel, poorly graded, brown, dry						0
1				- becoming trace silt, trace clay						1
2			SP	- becoming grey-brown						2
3										3
4				COMPLETION DEPTH: 3.7 m below ground surface						4
5				At Completion No accumulation of water. Testpit backfilled with excavated material.						5

Sample Symbol						
Backfill Symbol						

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Project Name: Test Pits
 Client Name: DJ Hog Farms Ltd.
 Site: Within Portions of NE-22-49-4 W4M
 Northing: 5899702 Easting: 533759
 Elevation: _____

Borehole #: TP25-12
 Project #: LM25-50616
 Logged By: JS / Reviewed By: KJ
 Driller: Aultman Construction Ltd.
 Drill Method: Excavator

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Depth (m)	SPT N Value		Soil Symbol	USCS	Material Description	Sample Symbol	Sample #	SPT (N-Value)	BACKFILL DETAILS	Additional Data & Notes	Depth (m)
	20	40									
0				OR	TOPSOIL (~100 mm Thick) , black , dry						
				CI	CLAY (TILL) , and silt, some sand, trace gravel, medium plastic, brown, damp						
1				SP	SAND , fine grained, trace silt, trace clay, trace gravel, poorly graded, brown, moist - becoming trace silt, trace clay						1
2											2
3											3
4					COMPLETION DEPTH: 3.7 m below ground surface At Completion No accumulation of water. Testpit backfilled with excavated material.						4
5											5

Sample Symbol Shelby Tube No Recovery SPT Test (N) Grab Sample Split-Pen Core
Backfill Symbol Bentonite Pea Gravel Slough Grout Drill Cuttings Sand

EXPLANATION OF TERMS & SYMBOLS

The terms and symbols used on the borehole logs to summarize the results of the field investigation and laboratory testing are described on the following two pages.

1. VISUAL TEXTURAL CLASSIFICATION ON MINERAL SOILS

CLASSIFICATION	APPARENT PARTICLE SIZE	VISUAL IDENTIFICATION
Boulders	> 200 mm	> 200 mm
Cobbles	75 mm to 200 mm	75 mm to 200 mm
Gravel	4.75 mm to 75 mm	5 mm to 75 mm
Sand	0.075 mm to 4.75 mm	Visible particles to 5 mm
Silt	0.002 mm to 0.075 mm	Non-plastic particles, not visible to naked eye
Clay	< 0.002 mm	Plastic particles, not visible to naked eye

2. TERMS FOR CONSISTENCY & DENSITY OF SOILS

Cohesionless Soils

DESCRIPTIVE TERM	APPROXIMATE SPT "N" VALUE
Very Dense	> 50
Dense	30 to 50
Compact	10 to 30
Loose	4 to 10
Very Loose	< 4

Cohesive Soils

DESCRIPTIVE TERM	UNDRAINED SHEAR STRENGTH	APPROXIMATE SPT "N" VALUE
Hard	>200 kPa	> 30
Very Stiff	100 to 200 kPa	15 to 30
Stiff	50 to 100 kPa	8 to 15
Firm	25 to 50 kPa	4 to 8
Soft	10 to 25 kPa	2 to 4
Very Soft	< 10 kPa	< 2

* SPT "N" Values – Refers to the number of blows by a 63.5 kg hammer dropped 760 mm to drive a 50 mm diameter split spoon sampler for a distance of 300 mm after an initial penetration of 150 mm.

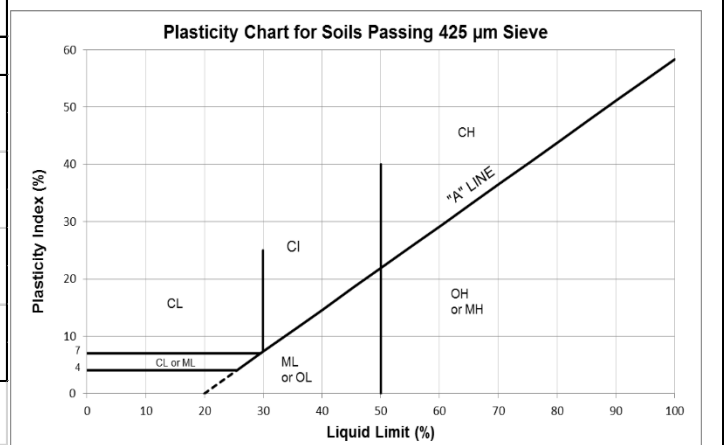
3. SYMBOLS USED ON BOREHOLE LOGS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
N(■)	Standard Penetration Test (CSA A119 1-60)	SO ₄	Concentration of Water-Soluble Sulphate
N _d	Dynamic Cone Penetration Test	C _u	Undrained Shear Strength
pp (◆)	Pocket Penetrometer Strength	γ	Unit Weight of Soil or Rock
q _u	Unconfined Compressive Strength	γ _d	Dry Unit Weight of Soil or Rock
w (●)	Natural Moisture Content (ASTM D2216)	ρ	Density of Soil or Rock
w _L	Liquid Limit (ASTM D 4318)	ρ _d	Dry Density of Soil or Rock
w _P	Plastic Limit (ASTM D 4318)	▽	Short-Term Water Level
I _P	Plastic Index	▼	Long-Term Water Level

MODIFIED UNIFIED CLASSIFICATION SYSTEM FOR SOILS

MAJOR DIVISION		GROUP SYMBOL	TYPICAL DESCRIPTION	LABORATORY CLASSIFICATION CRITERIA	
COARSE GRAINED SOILS (MORE THAN HALF BY WEIGHT LARGER THAN 75 µm)	GRAVELS (MORE THAN HALF COARSE GRAINS LARGER THAN 4.75mm)	CLEAN GRAVELS (LITTLE OR NO FINES)	GW	WELL GRADED GRAVELS AND GRAVEL-SAND MIXTURES, LITTLE OR NO FINES	$C_u = D_{60}/D_{10} > 4$ $C_c = (D_{30})^2/(D_{10} \times D_{60}) = 1 \text{ to } 3$
		GRAVELS (WITH SOME FINES)	GP	POORLY GRADED GRAVELS AND GRAVEL-SAND MIXTURES, LITTLE OR NO FINES	
			GM	SILTY GRAVELS, GRAVEL-SAND-SILT MIXTURES	CONTENT OF FINES EXCEEDS 12%
		GC	CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES	ATTERBERG LIMITS ABOVE 'A' LINE I_p MORE THAN 7	
	SANDS (MORE THAN HALF COARSE GRAINS SMALLER THAN 4.75mm)	CLEAN SANDS (LITTLE OR NO FINES)	SW	WELL GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES	$C_u = D_{60}/D_{10} > 6$ $C_c = (D_{30})^2/(D_{10} \times D_{60}) = 1 \text{ to } 3$
		SANDS (WITH SOME FINES)	SP	POORLY GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES	
			SM	SILTY SANDS, SAND-SILT MIXTURES	CONTENT OF FINES EXCEEDS 12%
		SC	CLAYEY SANDS, SAND-CLAY MIXTURES	ATTERBERG LIMITS ABOVE 'A' LINE I_p MORE THAN 7	
FINE GRAINED SOILS (MORE THAN HALF BY WEIGHT SMALLER THAN 75 µm)	SILTS (BELOW 'A' LINE NEGLIGIBLE ORGANIC CONTENT)	$W_L < 50\%$	ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY SANDS OF SLIGHT PLASTICITY	CLASSIFICATION IS BASED UPON PLASTICITY CHART (SEE BELOW)
		$W_L > 50\%$	MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SANDY OR SILTY SOILS	
	CLAYS (ABOVE 'A' LINE NEGLIGIBLE ORGANIC CONTENT)	$W_L < 30\%$	CL	INORGANIC CLAYS OF LOW PLASTICITY, GRAVELLY, SANDY, OR SILTY CLAYS, LEAN CLAYS	
		$30\% < W_L < 50\%$	CI	INORGANIC CLAYS OR MEDIUM PLASTICITY, SILTY CLAYS	
		$W_L > 50\%$	CH	INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS	
	ORGANIC SILTS & CLAYS (BELOW 'A' LINE)	$W_L < 50\%$	OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY	
		$W_L > 50\%$	OH	ORGANIC CLAYS OF HIGH PLASTICITY	
	HIGHLY ORGANIC SOILS			Pt	
BEDROCK			BR	SEE REPORT DESCRIPTION	

Soil Components			
Component	Size Range (mm)	Descriptor	% by Weight
Cobbles	> 76	and	> 35
Gravel	76 to 4.75		
Coarse	76 to 19	-y, -ey	35 to 20
Fine	19 to 4.75		
Sand	4.75 to 0.075	some	20 to 10
Coarse	4.75 to 2		
Medium	2 to 0.425		
Fine	0.425 to 0.075	trace	10 to 1
Fines (Silt or Clay)	< 0.075		



Appendix C
Laboratory Testing

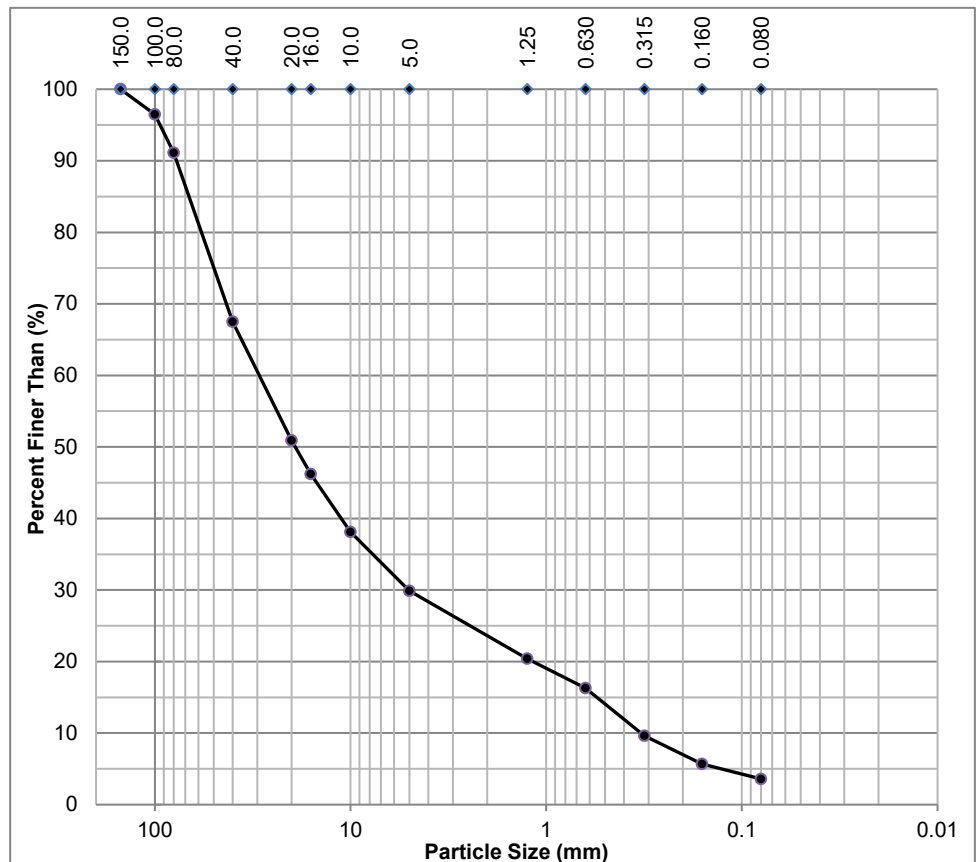
Grain Size Distribution Analysis Report

Project Name: Gravel Test Pits
Project No.: LM25-50616
Client: DJ Hogs Farms Ltd.
Location: NE-22-49-4 W4M

Sample No.: 50616.001	Type of Sample: Bulk Sample
Date Sampled: 1-Dec-25	Date Received: 2-Dec-25
Sampled By: SolidEarth/JS	Sample Source: Test Pit 4 Depth 0.8 to 1.1 m

Notes: Boulder size aggerates excluded from sample

Sieve Size (mm)	Specificatio n - Percent Finer Than (%)	Percent Finer Than (%)
150.0		100
100.0		97
80.0		91
40.0		68
20.0		51
16.0		46
10.0		38
5.0		30
1.25		20
0.630		16
0.315		9.6
0.160		5.7
0.080		3.6



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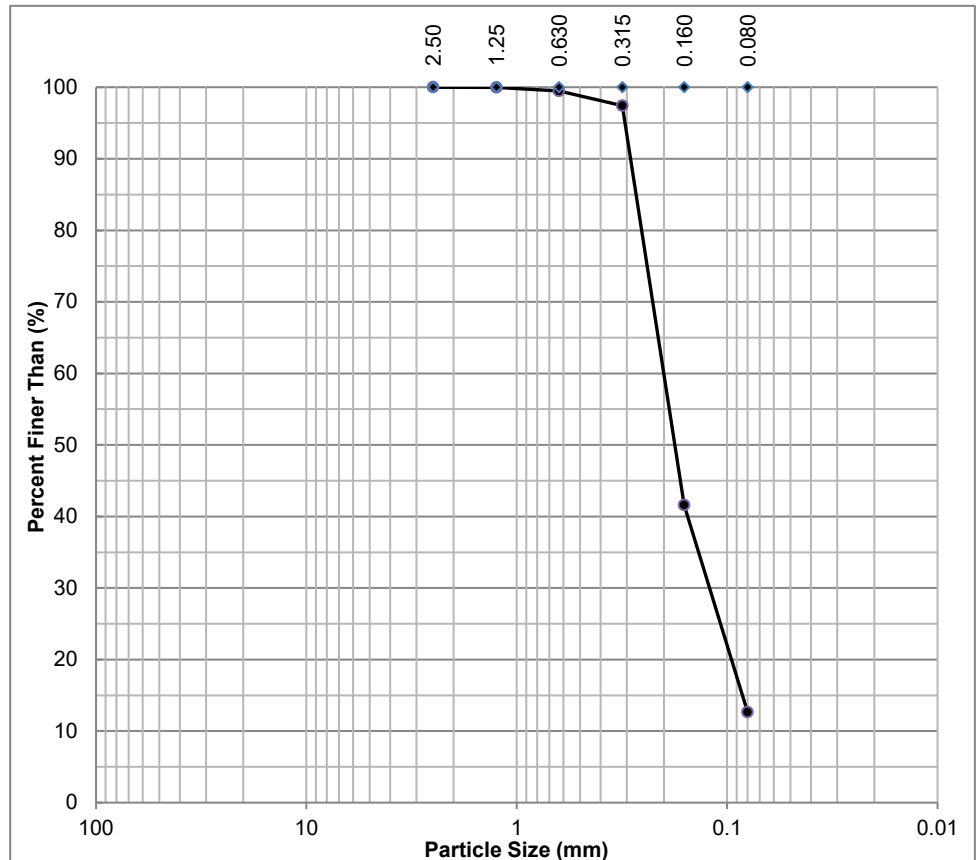
Grain Size Distribution Analysis Report

Project Name: Gravel Test Pits
Project No.: LM25-50616
Client: DJ Hogs Farms Ltd.
Location: NE-22-49-4 W4M

Sample No.: 50616.002	Type of Sample: Bulk Sample
Date Sampled: 1-Dec-25	Date Received: 2-Dec-25
Sampled By: SolidEarth/JS	Sample Source: Test Pit 10 Depth 2.4 m

Notes:

Sieve Size (mm)	Specification - Percent Finer Than (%)	Percent Finer Than (%)
2.50		100
1.25		100
0.630		99
0.315		97
0.160		41.6
0.080		12.7



SolidEarth Geotechnical Inc.



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