

Engineering Log - Borehole

Project No.: 5.03.1

Client: Datgel	Commenced: 18/12/2009
Project Name: Construction Project	Completed: 18/12/2009
Hole Location: Somewhere, World	Logged By: ABC
Hole Position: A1.10 263083.4 m E 6266073.7 m N MGA2020 Zone 56	Checked By: CB
Drill Model and Mounting: Edson 3000	Inclination: -90°
Hole Diameter: 90 mm	Bearing:
	RL Surface: 24.15 m
	Datum: AHD
	Operator: OR

Drilling Information				Soil Description						Observations					
Method	Penetration	Support	Water	Samples Tests Remarks	Recovery	RL (m)	Depth (m)	Graphic Log	Group Symbol	Material Description Fraction, Colour, Structure, Bedding, Plasticity, Sensitivity, Additional	Moisture Condition	Consistency Relative Density	Pocket Penetrometer UCS (kPa)	Structure and Additional Observations	
RR	T	100% Polymer RETURN	18/12/09	1 U63 0.50-0.90 m		23.2	1		CL-CI /SP	FILL Sandy Gravelly BIOCLASTIC CLAY trace peat: clay is silica, low and medium plasticity, pale brown; gravel fine to coarse angular; sand fine and to coarse grained; scatter of cobbles.				FILL	
				1 Polymer SPT 1.35-1.80 m RW/100mm,6 50mm,4,2 HB N=6 PP 1.55 m >=400 kPa FV 1.55 m s<=89 kPa		22.2	2		CI	FILL Possibly ALLUVIAL SOIL Silty CLAY: medium plasticity, brown and dark brown; scatter of fine to coarse grained sand.	D	H			FILL Possibly ALLUVIAL SOIL
				2 SPT 2.85-3.30 m 0,3,5 N=8		21.2	3		SC	Clayey SAND: fine and medium grained, brown and pale brown with some grey; slight and low plasticity.		VL			ALLUVIAL SOIL
				2 U63 4.20-4.65 m		20.2	4		CL	Clayey SAND: pale brown and grey with some red-brown; with some low plasticity sandy clay layers.		S			3.00: A depth related remark
				2 U63 4.20-4.65 m		20.2	4		CL	Sandy CLAY: low plasticity, pale grey; sand fine and medium grained.	W				
				2 U63 4.20-4.65 m		19.2	5		SC /SP	INTERBEDDED Clayey SAND AND CALCAREOUS SAND: sand is fine to coarse grained, low plasticity, pale grey pale brown and pale red-brown; non and low plasticity layers, variable fine to coarse grained sand, scatter of gravel; sand is fine to medium grained, uniform, angular.		MD			
				SPT 5.70-6.02 m 3,30,2/20mm N=32/170mm PP 5.90 m >=400 kPa		18.2	6		CI CI-CH /SP	Silty CLAY: medium plasticity, dark grey; organic. INTERBEDDED Sandy Silty CLAY AND CALCAREOUS SAND: clay is medium to high plasticity, dark brown and dark grey; sand fine to coarse grained; some organic material, scatter of gravel; sand is fine to medium grained, uniform, angular, dark brown blue.	w < PL to W	S and F			
						17.2	7			SANDY SILTSTONE META: fine grained, dark grey. Continued on cored borehole sheet				EXTREMELY WEATHERED MATERIAL	

<p>Method</p> <p>AS - Auger Screwing RR - Rock Roller WB - Washbore</p>	<p>Penetration</p> <p>No resistance ranging to refusal</p>	<p>Water</p> <p>Level (Date) Inflow Partial Loss Complete Loss</p>	<p>Samples and Tests</p> <p>U - Undisturbed Sample D - Disturbed Sample SPT - Standard Penetration Test</p>	<p>Moisture Condition</p> <p>D - Dry M - Moist W - Wet</p>	<p>Consistency/Relative Density</p> <p>VS - Very Soft S - Soft F - Firm VSt - Very Stiff H - Hard Fr - Friable VL - Very Loose L - Loose MD - Medium Dense D - Dense VD - Very Dense</p>
<p>Support</p> <p>C - Casing</p>	<p>Graphic Log/Core Loss</p> <p>Core recovered (hatching indicates material) Core loss</p>	<p>Classification Symbols and Soil Descriptions</p> <p>Based on Unified Soil Classification System</p>	<p>Plastic Limit</p> <p>< PL = PL > PL</p>		

DGDTP-5.032 LIB/CLB Log IS AU BOREHOLE: 1 DGDTP-5.032.GPJ <DrawingFile>> 9/9/2020 16:23 10.01.00.11 Datgel Lab and In Situ Tool - DGD [Lib: DGDTP-5.03.2 2020-09-08 Pdf: DGDTP-5.03.1 2020-09-05]

POSITION : E: 263083.4, N: 6266073.7 (MGA2020 Zone 56)	SURFACE ELEVATION : 24.15 (AHD)	ANGLE FROM HORIZONTAL : 90°
RIG TYPE : Edson 3000	MOUNTING : Truck	CONTRACTOR : Contractor 1
DRILLER : OR	DATE STARTED : 18/12/2009	DATE COMPLETED : 18/12/2009
DATE LOGGED : 18/12/2009	LOGGED BY : ABC	CHECKED BY : CB

DRILLING				MATERIAL			
PROGRESS	DEPTH (m)	MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY	RELATIVE DENSITY	STRUCTURE & Other Observations	
DRILLING & CASING	0.0	FILL Sandy Gravelly BIOCLASTIC CLAY trace peat: clay is silica, low and medium plasticity, pale brown; gravel fine to coarse angular; sand fine and to coarse grained; scatter of cobbles.				FILL	
WATER	0.50m						
DRILLING PENETRATION	0.90m						
GROUND WATER LEVELS	1.05m	FILL Possibly ALLUVIAL SOIL Silty CLAY: medium plasticity, brown and dark brown; scatter of fine to coarse grained sand.	D	H		FILL Possibly ALLUVIAL SOIL	
SAMPLES & FIELD TESTS	1.35m					1.35: SPT Recovery: 0.4 m	
	1.80m					1.55: HP In-situ >=400 kPa	
	2.30m						
	2.85m	Clayey SAND: fine and medium grained, brown and pale brown with some grey; slight and low plasticity.		VL		ALLUVIAL SOIL	
	3.00m					2.85: SPT Recovery: 0.4 m	
	3.15m					3.00: A depth related remark	
	3.30m	Clayey SAND: pale brown and grey with some red-brown; with some low plasticity sandy clay layers.		S			
	4.00m						
	4.20m	Sandy CLAY: low plasticity, pale grey; sand fine and medium grained.		W			
	4.35m						
	4.65m	INTERBEDDED Clayey SAND AND CALCAREOUS SAND: sand is fine to coarse grained, low plasticity, pale grey pale brown and pale red-brown; non and low plasticity layers, variable fine to coarse grained sand, scatter of gravel; sand is fine to medium grained, uniform, angular.		MD			
	5.45m						
	5.60m	Silty CLAY: medium plasticity, dark grey; organic.					
	5.70m	INTERBEDDED Sandy Silty CLAY AND CALCAREOUS SAND: clay is medium to high plasticity, dark brown and dark grey; sand fine to coarse grained; some organic material, scatter of gravel; sand is fine to medium grained, uniform, angular, dark brown blue.	w < PL to W	S and F		RESIDUAL SOIL becoming EXTREMELY WEATHERED MATERIAL	
	6.02m					5.70: SPT Recovery: 0.35 m	
	6.35m					5.90: HP In-situ >=400 kPa	
	6.45m	SANDY SILTSTONE META: fine grained, dark grey.				EXTREMELY WEATHERED MATERIAL	
	7.0	Continued as Cored Drill Hole					
	8.0						

DCDT-P-5.03.2-1IB-GB-E-Log-IS-AU-BOREHOLE-2-DCDT-P-5.03.2.GPJ <-DrawingFile> 9/9/2020 16:24 10.01.00.11 Datgel Lab and In-Situ Tech- DCDT Lib: DCDT-P-5.03.2-2020-09-08 P11.DCDT-DLST-5.03.1-2020-09-05

See Explanatory Notes for details of abbreviations & basis of descriptions.

Engineer 1

Project Construction Project
 Location Somewhere, World
 Position A1.10
 Job No. 5.03.1
 Client Datgel

Lat 55.7 dec degrees
 Long 107.6 dec degrees
 East 263083.4 m
 North 6266073.7 m MGA2020 Zone 56
 Surface RL 24.15 m AHD
 Contractor Contractor 1
 Drill Rig Edson 3000
 Inclination -90° Hole Dia. 90 mm

BOREHOLE: V-BH AS

Sheet 1 OF 3
 Date Started 18/12/2009
 Date Completed 18/12/2009
 Logged ABC

Drilling				Sampling			Field Material Description								
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY	DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS			
RR	E	18/12/09	Polymer	0	24.15	1 U63 0.50-0.90 m		CL-CI / SP	FILL Sandy Gravelly BIOCLASTIC CLAY trace peat: clay is silica, low and medium plasticity, pale brown; gravel fine to coarse angular; sand fine and to coarse grained; scatter of cobbles.				FILL		
				1	1.05	23.10	1 SPT 1.35-1.80 m RW/100mm,6 50mm,4,2 HB N=6 PP 1.55 m >=400 kPa FV 1.55 m s _v <=89 kPa		CI	FILL Possibly ALLUVIAL SOIL Silty CLAY: medium plasticity, brown and dark brown; scatter of fine to coarse grained sand.	D	H		FILL Possibly ALLUVIAL SOIL	
				2	2.30	21.85	2 SPT 2.85-3.30 m 0,3,5 N=8		SC	Clayey SAND: fine and medium grained, brown and pale brown with some grey; slight and low plasticity.		VL		ALLUVIAL SOIL	
				3	3.15	21.00			CL	Clayey SAND: pale brown and grey with some red-brown; with some low plasticity sandy clay layers.		S		3.00: A depth related remark	
				4	4.00	20.15	2 U63 4.20-4.65 m		CL	Sandy CLAY: low plasticity, pale grey; sand fine and medium grained.		W			
				5	4.35	19.80			SC / SP	INTERBEDDED Clayey SAND AND CALCAREOUS SAND: sand is fine to coarse grained, low plasticity, pale grey pale brown and pale red-brown; non and low plasticity layers, variable fine to coarse grained sand, scatter of gravel; sand is fine to medium grained, uniform, angular.		MD			
				6	5.45	18.55	SPT 5.70-6.02 m 3,30,2/20mm N=32/170mm PP 5.90 m >=400 kPa		CI-CH / SP	Silty CLAY: medium plasticity, dark grey; organic. INTERBEDDED Sandy Silty CLAY AND CALCAREOUS SAND: clay is medium to high plasticity, dark brown and dark grey; sand fine to coarse grained; some organic material, scatter of gravel; sand is fine to medium grained, uniform, angular, dark brown blue.		S and F			RESIDUAL SOIL becoming EXTREMELY WEATHERED MATERIAL
				6.35	6.45				X	SANDY SILTSTONE META: fine grained, dark grey.		W < PL to W			EXTREMELY WEATHERED MATERIAL
				7							Continued as Cored Borehole				

Comments
A general remark

Checked CB
Date 21/12/2009

Log - Borehole

Project No.: 5.03.1

Client: Datgel	Commenced: 18/12/2009
Project Name: Construction Project	Completed: 18/12/2009
Hole Location: Somewhere, World	Logged By: ABC
Hole Position: A1.10 263083.4 m E 6266073.7 m N MGA2020 Zone 56	Checked By: CB

RL Surface: 24.15 m
Datum: AHD Operator: OR

Drilling Information				Soil Description		Observations		
Method	Depth (m)	Water Level	PID	Samples Tests Remarks	Graphic Log	Group Symbol	Material Description	Structure and Additional Observations
RR	1	18/12/09		1 U63 0.50-0.90 m		CL-CI /SP	FILL Sandy Gravelly BIOCLASTIC CLAY trace peat: clay is silica, low and medium plasticity, pale brown; gravel fine to coarse angular; sand fine and to coarse grained; scatter of cobbles.	A depth related remark
	2		1 SPT 1.35-1.80 m RW/100mm,6 50mm,4,2 HB N=6 PP 1.55 m >=400 kPa FV 1.55 m s,<=89 kPa		CI	FILL Possibly ALLUVIAL SOIL Silty CLAY: medium plasticity, brown and dark brown; scatter of fine to coarse grained sand.		
	3		2 SPT 2.85-3.30 m 0,3,5 N=8		SC	Clayey SAND: fine and medium grained, brown and pale brown with some grey; slight and low plasticity.		
	4				CL	Clayey SAND: pale brown and grey with some red-brown; with some low plasticity sandy clay layers.		
	5		2 U63 4.20-4.65 m		SC /SP	INTERBEDDED Clayey SAND AND CALCAREOUS SAND: sand is fine to coarse grained, low plasticity, pale grey pale brown and pale red-brown; non and low plasticity layers, variable fine to coarse grained sand, scatter of gravel; sand is fine to medium grained, uniform, angular.		
	6		SPT 5.70-6.02 m 3,30,2/20mm N=32/170mm PP 5.90 m >=400 kPa		CI-CH /SP	Silty CLAY: medium plasticity, dark grey; organic. INTERBEDDED Sandy Silty CLAY AND CALCAREOUS SAND: clay is medium to high plasticity, dark brown and dark grey; sand fine to coarse grained; some organic material, scatter of gravel; sand is fine to medium grained, uniform, angular, dark brown blue.		
NMLC	7	1 C52 6.45-7.15 m		SANDY SILTSTONE META: fine grained, dark grey.				
		C52 7.15-8.05 m		SANDY SILTSTONE META AND META SILTSTONE: fine grained, dark grey with red brown and grey-brown, 45deg - 70deg bedding. Scatter of Fe sealed joints at 40deg - 90deg., Fine grained sand.; very low to high strength; residual soil to slightly weathered.				

- Method**
AS - Auger Screwing
RR - Rock Roller
WB - Washbore
HQ3 HQ3 Core Barrel
NQ3 NQ3 Core Barrel

- Water**
 Level (Date)
 Inflow

- Samples and Tests**
U - Undisturbed Sample
D - Disturbed Sample
SPT - Standard Penetration Test
CBR - CBR Mould Sample

- Support**
T - Timbering

Classification Symbols and Soil Descriptions
Based on Unified Soil Classification System

DGDTP-5.032.LIB.GLB.Log IS AU BOREHOLE CONTAM.1 DGDTP-5.032.GPJ <Drawing> 9/8/2020 16:25 10:01:00.11 Datgel Lab and In Situ Tool - DGD Lib.DGDTP-5.03.2 2020-09-08 Pjt: DGDTP-DUST 5.03.1 2020-09-05

Engineering Log - Cored Borehole

Project No.: 5.03.1

Client: Datgel	Commenced: 18/12/2009
Project Name: Construction Project	Completed: 18/12/2009
Hole Location: Somewhere, World	Logged By: ABC
Hole Position: A1.10 263083.4 m E 6266073.7 m N MGA2020 Zone 56	Checked By: CB
Drill Model and Mounting: Edson 3000	Inclination: -90°
Barrel Type and Length: 1.5 m	Bearing:
	RL Surface: 24.15 m
	Datum: AHD Operator: OR

Drilling Information						Rock Substance				Rock Mass Defects				
Method	Support	Water	TCR (%)	SCR (%)	RQD (%)	RL (m)	Depth (m)	Graphic Log	Material Description rock type: grain characteristics, colour, structure, minor components	Weathering	Strength Is(50) ● - Axial ○ - Diametral	Average Defect Spacing (mm)	Defect Description thickness, type, inclination, planarity, roughness, coating/infilling	
										VL L M H VH EH	30 100 300 1000 3000	Particular	General	
						23.2	1							
						22.2	2							
						21.2	3							
						20.2	4							
						19.2	5							
						18.2	6							
									Continued from non-cored borehole sheet					
NM/C	95% Polymer RETURN		100	86	86	17.2	7		SANDY SILTSTONE META AND META SILTSTONE: fine grained, dark grey with red brown and grey-brown, 45deg - 70deg bedding. Scatter of Fe sealed joints at 40deg - 90deg., Fine grained sand..	DW SW to XW RS			JT, 0 - 90°, Fe Clay, PR, RF, Also IR & S WITH CLAY POCKETS HB JT, 30 - 60°, Fe, PR, RF, Joints also IR JT, 5°, Fe Clay, PR, RF JT, 90°, Fe, PR, S, H spaced JT, 55°, Clay, PR, S	

DGDTP 5.032 LIB.GLB Log IS AU CORED BOREHOLE 1 DGDTP 5.032.GPJ <<DrawingFile>> 9/9/2020 16:25:10.01.00.11 Datgel Lab and In Situ Tool - DGD | Lib: DGDTP 5.032 2020-09-08 Pj: DGDTP-DLST 5.03.1 2020-09-05

- | | | | | |
|--|---|---|---|--|
| <p>Method</p> <ul style="list-style-type: none"> AS - Auger Screwing WB- Washbore HQ3 HQ3 Core Barrel NQ3 NQ3 Core Barrel | <p>Water</p> <ul style="list-style-type: none"> Level (Date) Inflow Partial Loss Complete Loss <p>Support</p> <ul style="list-style-type: none"> T - Timbering | <p>Graphic Log/Core Loss</p> <ul style="list-style-type: none"> Core recovered (hatching indicates material) Core loss | <p>Weathering</p> <ul style="list-style-type: none"> FR - Fresh SW - Slightly Weathered DW - Distinctly Weathered XW - Extremely Weathered RS - Residual Soil | <p>Strength
(indirect tensile strength)</p> <ul style="list-style-type: none"> VL - Very Low L - Low M - Medium H - High VH - Very High EH - Extremely High |
|--|---|---|---|--|

Engineering Log - Cored Borehole

Project No.: 5.03.1

Client: Datgel	Commenced: 18/12/2009
Project Name: Construction Project	Completed: 18/12/2009
Hole Location: Somewhere, World	Logged By: ABC
Hole Position: A1.10 263083.4 m E 6266073.7 m N MGA2020 Zone 56	Checked By: CB
Drill Model and Mounting: Edson 3000	Inclination: -90°
Barrel Type and Length: 1.5 m	Bearing:
	RL Surface: 24.15 m
	Datum: AHD
	Operator: OR

Drilling Information					Rock Substance			Rock Mass Defects					
Method	Support	Water	TCR (%)	SCR (%)	RQD (%)	RL (m)	Depth (m)	Graphic Log	Material Description	Weathering	Strength Is(50)	Average Defect Spacing (mm)	Defect Description
									rock type: grain characteristics, colour, structure, minor components		● - Axial ○ - Diametral	30 100 300 1000 3000	Particular General
NMLC	95% Polymer RETURN		100	100	100	15.2	9	XXXXXXXXXXXX	SILTSTONE AND SANDY SILTSTONE META: fine grained, grey and dark grey, Some disturbed bedding. Occasional meta-silty sandstone interbedding. Scatter of MS sealed sub-vertical joints. Evidence of iron pyrites in closed joints..	FR FR	●	|||||	JT, 5°, Clay, PR, RF JT, 50°, Clay, PR, SL DB JT, 5°, PR, S JT, 60°, SL JT, 10°, Clay, PR, S JT, 55°, Clay, PR, SL 8.35: Difficult Drilling JT, 5°, MS, PR, S JT, 20°, CA, IR, RF DB DB JT, 45°, MS, PR, S JT, 40°, MS, IR, RF, & DB HB HB JT, 55°, Clay, PR, S, & DBs JT, 75°, Clay, PR, SL DB JT, 10 - 90°, CN, PR, RF. TRACE CLAY ALSO IR, S & SL
			97	92	83	14.2	10							Hole Terminated at 10.15 m Target depth A general remark
						13.2	11						
						12.2	12						
						11.2	13						
						10.2	14						
						9.2	15						

DGDT-P 5.032 LIB:G.L.B. Log IS AU CORED BOREHOLE 1 DGDT-P 5.032.GPJ <<DrawingFile>> 9/9/2020 16:25:10.01.00.11 Datgel Lab and In Situ Tool - DGD | Lib: DGDT-P 5.032 2020-09-08 Pj: DGDT-DLST 5.03.1 2020-09-05

Method AS - Auger Screwing WB- Washbore HQ3 HQ3 Core Barrel NQ3 NQ3 Core Barrel	Water Level (Date) Inflow Partial Loss Complete Loss	Graphic Log/Core Loss Core recovered (hatching indicates material) Core loss	Weathering FR - Fresh SW - Slightly Weathered DW - Distinctly Weathered XW - Extremely Weathered RS - Residual Soil	Strength (indirect tensile strength) VL - Very Low L - Low M - Medium H - High VH - Very High EH - Extremely High
Support T - Timbering				

POSITION : E: 263083.4, N: 6266073.7 (MGA2020 Zone 56)	SURFACE ELEVATION : 24.15 (AHD)	ANGLE FROM HORIZONTAL : 90°
RIG TYPE : Edson 3000	MOUNTING : Truck	CONTRACTOR : Contractor 1
DRILLER : OR	DATE STARTED : 18/12/2009	DATE COMPLETED : 18/12/2009
DATE LOGGED : 18/12/2009	LOGGED BY : ABC	CHECKED BY : CB
CASING DIAMETER : NW	BARREL (Length) : 1.50 m	BIT : IMPREG
		BIT CONDITION : Good

DRILLING			MATERIAL				FRACTURES			
PROGRESS	LOSS	SAMPLES & FIELD TESTS	DEPTH (m)	GRAPHIC LOG	DESCRIPTION ROCK TYPE : Colour, Grain size, Structure (texture, fabric, mineral composition, hardness alteration, cementation, etc as applicable)	Weathering	ESTIMATED STRENGTH Is(50) ● Axial ○ Diametral	NATURAL FRACTURE (mm)	VISUAL	ADDITIONAL DATA (joints, partings, seams, zones, etc) Description, orientation, infilling or coating, shape, roughness, thickness, other
DRILLING & CASING	WATER										DRILL DEPTH	VT-01	VT-03	VT-05	VT-10	VT-15	VT-20
			0.0							
			1.0							
			2.0							
			3.0							
			4.0							
			5.0							
			6.0							
			6.45		START CORING AT 6.45m					
			6.55							
			7.0		SANDY SILTSTONE META AND META SILTSTONE: fine grained, dark grey with red brown and grey-brown, 45deg - 70deg bedding. Scatter of Fe sealed joints at 40deg - 90deg., Fine grained sand..	DW SW to XW RS				JT, 0 - 90°, Fe Clay, PR, RF, Also IR & S WITH CLAY POCKETS
			7.15							HB
			8.0							JT, 30 - 60°, Fe, PR, RF, Joints also IR JT, 5°, Fe Clay, PR, RF JT, 90°, Fe, PR, S, H spaced JT, 55°, Clay, PR, S JT, 5°, Clay, PR, RF JT, 50°, Clay, PR, SL DB JT, 5°, PR, S

See Explanatory Notes for details of abbreviations & basis of descriptions.

Engineer 1

POSITION : E: 263083.4, N: 6266073.7 (MGA2020 Zone 56) SURFACE ELEVATION : 24.15 (AHD) ANGLE FROM HORIZONTAL : 90°

RIG TYPE : Edson 3000 MOUNTING : Truck CONTRACTOR : Contractor 1 DRILLER : OR

DATE STARTED : 18/12/2009 DATE COMPLETED : 18/12/2009 DATE LOGGED : 18/12/2009 LOGGED BY : ABC CHECKED BY : CB

CASING DIAMETER : NW BARREL (Length) : 1.50 m BIT : IMPREG BIT CONDITION : Good

DRILLING		MATERIAL					FRACTURES				
DRILLING & CASING	WATER	CORE LOSS DEPTH	SAMPLES & FIELD TESTS	DEPTH (m)	GRAPHIC LOG	DESCRIPTION <small>ROCK TYPE : Colour, Grain size, Structure (texture, fabric, mineral composition, hardness alteration, cementation, etc as applicable)</small>	Weathering	ESTIMATED STRENGTH Is(50) <small>● - Axial ○ - Diametral</small>	NATURAL FRACTURE (mm)	VISUAL	ADDITIONAL DATA <small>(joints, partings, seams, zones, etc) Description, orientation, infilling or coating, shape, roughness, thickness, other</small>
<p>Progress Indicators: - NMLC: 8.05 to 10.15 m - 95% Polymer RETURN: 8.05 to 10.15 m - Core Loss: 0% (8.05-9.55m), 3% (9.55-10.15m)</p> <p>Is(50) a=2.9 MPa</p>											
<p>Hole Terminated at 10.15 m Target depth A general remark</p>											

See Explanatory Notes for details of abbreviations & basis of descriptions.

Engineer 1

POSITION : E: 263083.4, N: 6266073.7 (MGA2020 Zone 56)	SURFACE ELEVATION : 24.15 (AHD)	ANGLE FROM HORIZONTAL : 90°
RIG TYPE : Edson 3000	MOUNTING : Truck	CONTRACTOR : Contractor 1
DRILLER : OR	DATE STARTED : 18/12/2009	DATE COMPLETED : 18/12/2009
DATE LOGGED : 18/12/2009	LOGGED BY : ABC	CHECKED BY : CB

DRILLING				MATERIAL			
PROGRESS	DEPTH (m)	DEPTH (m)	DEPTH (m)	MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY	STRUCTURE & Other Observations
DRILLING & CASING	WATER	GROUND WATER LEVELS	SAMPLES & FIELD TESTS	Soil Type, Colour, Plasticity or Particle Characteristic Secondary and Minor Components	RELATIVE DENSITY		
DRILLING & CASING: RR WATER: Polymer 100% Polymer RETURN V-H-H 18/12/09	0.0	24.2		FILL Sandy Gravelly BIOCLASTIC CLAY trace peat: clay is silica, low and medium plasticity, pale brown; gravel fine to coarse angular; sand fine and to coarse grained; scatter of cobbles.			FILL
	0.50m		U63-1				
	0.90m						
	1.05m			FILL Possibly ALLUVIAL SOIL Silty CLAY: medium plasticity, brown and dark brown; scatter of fine to coarse grained sand.	D	H	FILL Possibly ALLUVIAL SOIL
	1.35m		SPT 1 RW/100mm, 5 50mm, 4, 2 HB N=6				1.35: SPT Recovery: 0.4 m
	1.80m						1.55: HP In-situ >=400 kPa
	2.30m			Clayey SAND: fine and medium grained, brown and pale brown with some grey; slight and low plasticity.			ALLUVIAL SOIL
	2.85m		In-situ VS R<=89kPa				2.85: SPT Recovery: 0.4 m
	3.00m		SPT 2 0.3, 5 N=8				3.00: A depth related remark
	3.15m			Clayey SAND: pale brown and grey with some red-brown; with some low plasticity sandy clay layers.			
4.00m			Sandy CLAY: low plasticity, pale grey; sand fine and medium grained.				
4.35m			INTERBEDDED Clayey SAND AND CALCAREOUS SAND: sand is fine to coarse grained, low plasticity, pale grey pale brown and pale red-brown; non and low plasticity layers, variable fine to coarse grained sand, scatter of gravel; sand is fine to medium grained, uniform, angular.				
5.45m			Silty CLAY: medium plasticity, dark grey; organic.				
5.60m			INTERBEDDED Sandy Silty CLAY AND CALCAREOUS SAND: clay is medium to high plasticity, dark brown and dark grey; sand fine to coarse grained; some organic material, scatter of gravel; sand is fine to medium grained, uniform, angular, dark brown blue.				
6.02m		SPT 3.30, 2/20mm N=32/170mm				RESIDUAL SOIL becoming EXTREMELY WEATHERED MATERIAL	
6.35m						5.70: SPT Recovery: 0.35 m	
6.45m			SANDY SILTSTONE META: fine grained, dark grey.			5.90: HP In-situ >=400 kPa	
7.0			Continued as Cored Drill Hole			EXTREMELY WEATHERED MATERIAL	

See Explanatory Notes for details of abbreviations & basis of descriptions.

Engineer 1



CORED DRILL HOLE LOG

HOLE NO : V-BH AS

CLIENT : Datgel
LOCATION : A1.10

PROJECT : Construction Project

FILE / JOB NO : 5.03.1
SHEET : 2 OF 3

POSITION : E: 263083.4, N: 6266073.7 (MGA2020 Zone 56)	SURFACE ELEVATION : 24.15 (AHD)	ANGLE FROM HORIZONTAL : 90°
RIG TYPE : Edson 3000	MOUNTING : Truck	CONTRACTOR : Contractor 1
DATE STARTED : 18/12/2009	DATE COMPLETED : 18/12/2009	DATE LOGGED : 18/12/2009
CASING DIAMETER : NW	BARREL (Length) : 1.50 m	BIT : IMPREG
		BIT CONDITION : Good

DRILLING			MATERIAL				FRACTURES								
DRILLING & CASING	WATER	CORE LOSS (CORE LOSS DRILL RUN %)	RQD (%)	SAMPLES & FIELD TESTS	DEPTH (m)	GRAPHIC LOG	DESCRIPTION ROCK TYPE : Colour, Grain size, Structure (texture, fabric, mineral composition, hardness alteration, cementation, etc as applicable)	Weathering	ESTIMATED STRENGTH Is(50)				NATURAL FRACTURE (mm)	VISUAL	ADDITIONAL DATA (joints, partings, seams, zones, etc) Description, orientation, infilling or coating, shape, roughness, thickness, other
									● - Axial	○ - Diametral	VL	L				M	H	VH	EH
					0.0							20			
					1.0							40			
					2.0							100			
					3.0							300			
					4.0							1000			
					5.0										
					6.0										
					6.45	START CORING AT 6.45m									
		0% LOSS	86	Is(50) d=2.5 MPa	6.55	X	SANDY SILTSTONE META AND META SILTSTONE: fine grained, dark grey with red brown and grey-brown, 45deg - 70deg bedding. Scatter of Fe sealed joints at 40deg - 90deg., Fine grained sand.	DW							
		7.15		Is(50) a=0.8 MPa		X		SW							JT, 0 - 90°, Fe Clay, PR, RF, Also IR & S WITH CLAY POCKETS
		0% LOSS	89	Is(50) d=2 MPa		X		XW							HB
						X		RS							JT, 30 - 60°, Fe, PR, RF, Joints also IR
						X									JT, 5°, Fe Clay, PR, RF
						X									JT, 90°, Fe, PR, S, H spaced
						X									JT, 55°, Clay, PR, S
						X									JT, 5°, Clay, PR, RF
						X									JT, 50°, Clay, PR, SL
						X									DB
						X									JT, 5°, PR, S

See Explanatory Notes for details of abbreviations & basis of descriptions.

Engineer 1

POSITION : E: 263083.4, N: 6266073.7 (MGA2020 Zone 56) SURFACE ELEVATION : 24.15 (AHD) ANGLE FROM HORIZONTAL : 90°

RIG TYPE : Edson 3000 MOUNTING : Truck CONTRACTOR : Contractor 1 DRILLER : OR

DATE STARTED : 18/12/2009 DATE COMPLETED : 18/12/2009 DATE LOGGED : 18/12/2009 LOGGED BY : ABC CHECKED BY : CB

CASING DIAMETER : NW BARREL (Length) : 1.50 m BIT : IMPREG BIT CONDITION : Good

DRILLING				MATERIAL					FRACTURES	
PROGRESS	DRILLING & CASING	WATER	CORE LOSS	DEPTH (m)	GRAPHIC LOG	DESCRIPTION ROCK TYPE : Colour, Grain size, Structure (texture, fabric, mineral composition, hardness alteration, cementation, etc as applicable)	Weathering	ESTIMATED STRENGTH Is(50)	NATURAL FRACTURE (mm)	ADDITIONAL DATA (joints, partings, seams, zones, etc) Description, orientation, infilling or coating, shape, roughness, thickness, other
DRILLING & CASING	WATER	DRILL DEPTH	RQD (%)								Is(50) a=2.9 MPa	Visual
	NMLC	95% Polymer RETURN	0% LOSS	8.05	100	SILTSTONE AND SANDY SILTSTONE META: fine grained, grey and dark grey. Some disturbed bedding. Occasional meta-silty sandstone interbedding. Scatter of MS sealed sub-vertical joints. Evidence of iron pyrites in closed joints..	FR to FR			JT, 60°, SL JT, 10°, Clay, PR, S JT, 55°, Clay, PR, SL 8.35: Difficult Drilling JT, 5°, MS, PR, S JT, 20°, CA, IR, RF DB DB JT, 45°, MS, PR, S JT, 40°, MS, IR, RF, & DB HB HB JT, 55°, Clay, PR, S, & DBs JT, 75°, Clay, PR, SL DB JT, 10 - 90°, CN, PR, RF, TRACE CLAY ALSO IR, S & SL
			3% LOSS	9.55	83					
			10.15							
Hole Terminated at 10.15 m Target depth A general remark										
				11.0						
				12.0						
				13.0						
				14.0						
				15.0						
				16.0						

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See Explanatory Notes for details of abbreviations & basis of descriptions.

Engineer 1

POSITION : E: 263083.4, N: 6266073.7 (MGA2020 Zone 56)	SURFACE ELEVATION : 24.15 (AHD)	ANGLE FROM HORIZONTAL : 90°
RIG TYPE : Edson 3000	MOUNTING : Truck	CONTRACTOR : Contractor 1
DRILLER : OR	DATE STARTED : 18/12/2009	DATE COMPLETED : 18/12/2009
DATE LOGGED : 18/12/2009	LOGGED BY : ABC	CHECKED BY : CB
CASING DIAMETER : NW	BARREL (Length) : 1.50 m	BIT : IMPREG
		BIT CONDITION : Good

DRILLING			MATERIAL				FRACTURES			
PROGRESS	LOSS	SAMPLES & FIELD TESTS	DEPTH (m)	GRAPHIC LOG	DESCRIPTION	Weathering	ESTIMATED STRENGTH Is(50)	NATURAL FRACTURE (mm)	VISUAL	ADDITIONAL DATA
DRILLING & CASING	WATER	(CORE LOSS DRILL FLUID RUN %)	RL (m AHD)		(texture, fabric, mineral composition, hardness alteration, cementation, etc as applicable)		● Axial ○ Diametral			(joints, partings, seams, zones, etc) Description, orientation, infilling or coating, shape, roughness, thickness, other
			0.0 24.2							
			1.0 23.2							
			2.0 22.2							
			3.0 21.2							
			4.0 20.2							
			5.0 19.2							
			6.0 18.2							
			6.45		START CORING AT 6.45m					
			6.55							
			7.0 17.2		SANDY SILTSTONE META AND META SILTSTONE: fine grained, dark grey with red brown and grey-brown, 45deg - 70deg bedding. Scatter of Fe sealed joints at 40deg - 90deg., Fine grained sand..	DW SW to RS				JT, 0 - 90°, Fe Clay, PR, RF, Also IR & S WITH CLAY POCKETS
			7.15							
			8.0 16.2							HB JT, 30 - 60°, Fe, PR, RF, Joints also IR JT, 5°, Fe Clay, PR, RF JT, 90°, Fe, PR, S, H spaced JT, 55°, Clay, PR, S JT, 5°, Clay, PR, RF JT, 50°, Clay, PR, SL DB JT, 5°, PR, S

See Explanatory Notes for details of abbreviations & basis of descriptions.

Engineer 1

POSITION : E: 263083.4, N: 6266073.7 (MGA2020 Zone 56)	SURFACE ELEVATION : 24.15 (AHD)	ANGLE FROM HORIZONTAL : 90°
RIG TYPE : Edson 3000	MOUNTING : Truck	CONTRACTOR : Contractor 1
DRILLER : OR	DATE STARTED : 18/12/2009	DATE COMPLETED : 18/12/2009
DATE LOGGED : 18/12/2009	LOGGED BY : ABC	CHECKED BY : CB
CASING DIAMETER : NW	BARREL (Length) : 1.50 m	BIT : IMPREG
		BIT CONDITION : Good

DRILLING			MATERIAL				FRACTURES		
PROGRESS	CORE LOSS	SAMPLES & FIELD TESTS	DEPTH (m)	GRAPHIC LOG	DESCRIPTION	Weathering	ESTIMATED STRENGTH Is(50)	NATURAL FRACTURE (mm)	ADDITIONAL DATA
	0% LOSS		8.0 16.2	XXXXXX	SILTSTONE AND SANDY SILTSTONE META: fine grained, grey and dark grey. Some disturbed bedding. Occasional meta-silty sandstone interbedding. Scatter of MS sealed sub-vertical joints. Evidence of iron pyrites in closed joints..	FR			JT, 60°, SL JT, 10°, Clay, PR, S JT, 55°, Clay, PR, SL 8.35: Difficult Drilling JT, 5°, MS, PR, S JT, 20°, CA, IR, RF DB DB JT, 45°, MS, PR, S JT, 40°, MS, IR, RF, & DB HB HB JT, 55°, Clay, PR, S, & DBs JT, 75°, Clay, PR, SL DB JT, 10 - 90°, CN, PR, RF, TRACE CLAY ALSO IR, S & SL
	95% Polymer RETURN	Is(50) a=2.9 MPa	9.0 15.2	XXXXXX					
	3% LOSS		10.0 14.2	XXXXXX					
			10.15 14.2	XXXXXX					
					Hole Terminated at 10.15 m Target depth A general remark				
			11.0 13.2						
			12.0 12.2						
			13.0 11.2						
			14.0 10.2						
			15.0 9.2						
			16.0 8.2						

See Explanatory Notes for details of abbreviations & basis of descriptions.

Engineer 1

D:\Projects\5.03.1 LIB\5.03.1 Log IS AU CORED BOREHOLE 2B.DWG [Lib: D:\Projects\5.03.1\2009-09-08\PHI.DWG] [Lib: D:\Projects\5.03.1\2009-09-08\PHI.DWG] [Lib: D:\Projects\5.03.1\2009-09-08\PHI.DWG]

POSITION : E: 263083.4, N: 6266073.7 (MGA2020 Zone 56) SURFACE ELEVATION : 24.15 (AHD) ANGLE FROM HORIZONTAL : 90°
 RIG TYPE : Edson 3000 MOUNTING : Truck CONTRACTOR : Contractor 1 DRILLER : OR
 DATE STARTED : 18/12/2009 DATE COMPLETED : 18/12/2009 DATE LOGGED : 18/12/2009 LOGGED BY : ABC CHECKED BY : CB
 CASING DIAMETER : NW BARREL (Length) : 1.50 m BIT : IMPREG BIT CONDITION : Good

DRILLING				MATERIAL				FRACTURES								
DRILLING & CASING	WATER	CORE LOSS (CORE LOSS DRILL RUN %)	RQD (%)	SAMPLES & FIELD TESTS	DEPTH (m) RL (m AHD)	GRAPHIC LOG	DESCRIPTION ROCK TYPE : Colour, Grain size, Structure (texture, fabric, mineral composition, hardness alteration, cementation, etc as applicable)	Weathering VL L -0.1 L -0.3 M -1 H -3 VH -10 EH	ESTIMATED STRENGTH Is(50)				NATURAL FRACTURE (mm)	VISUAL	ADDITIONAL DATA (joints, partings, seams, zones, etc) Description, orientation, infilling or coating, shape, roughness, thickness, other	
									20	40	100	300				1000
					0.0 24.2											
					1.0 23.2											
					2.0 22.2											
					3.0 21.2											
					4.0 20.2											
					5.0 19.2											
					6.0 18.2											
					6.45m 6.55m	6.45m START CORING AT 6.45m										
		0% LOSS	86	Is(50) d=2.5 MPa	7.0 17.2		SANDY SILTSTONE META AND META SILTSTONE: fine grained, dark grey with red brown and grey-brown, 45deg - 70deg bedding. Scatter of Fe sealed joints at 40deg - 90deg., Fine grained sand.	DW SW to XW RS			JT, 0 - 90°, Fe Clay, PR, RF, Also IR & S WITH CLAY POCKETS HB JT, 30 - 60°, Fe, PR, RF, Joints also IR JT, 5°, Fe Clay, PR, RF JT, 90°, Fe, PR, S, H spaced JT, 55°, Clay, PR, S JT, 5°, Clay, PR, RF JT, 50°, Clay, PR, SL DB JT, 5°, PR, S					
		7.15	89	Is(50) a=0.8 MPa	8.0 16.2											
		0% LOSS		Is(50) d=2 MPa												

See Explanatory Notes for details of abbreviations & basis of descriptions.

Engineer 1

POSITION : E: 263083.4, N: 6266073.7 (MGA2020 Zone 56)	SURFACE ELEVATION : 24.15 (AHD)	ANGLE FROM HORIZONTAL : 90°
RIG TYPE : Edson 3000	MOUNTING : Truck	CONTRACTOR : Contractor 1
DRILLER : OR	DATE STARTED : 18/12/2009	DATE COMPLETED : 18/12/2009
DATE LOGGED : 18/12/2009	LOGGED BY : ABC	CHECKED BY : CB
CASING DIAMETER : NW	BARREL (Length) : 1.50 m	BIT : IMPREG
		BIT CONDITION : Good

DRILLING				MATERIAL				FRACTURES							
PROGRESS		CORE LOSS DRILL DEPTH F RUN (%)	RQD (%)	SAMPLES & FIELD TESTS	DEPTH (m) RL (m AHD)	GRAPHIC LOG	DESCRIPTION ROCK TYPE : Colour, Grain size, Structure (texture, fabric, mineral composition, hardness alteration, cementation, etc as applicable)	Weathering	ESTIMATED STRENGTH Is(50)				NATURAL FRACTURE (mm)	VISUAL	ADDITIONAL DATA (joints, partings, seams, zones, etc) Description, orientation, infilling or coating, shape, roughness, thickness, other
DRILLING & CASING	WATER								VL	L	M	H				VH	EH
NMLC	95% Polymer RETURN	0% LOSS	100	Is(50) a=2.9 MPa	8.0 16.2	XXXXXX	SILTSTONE AND SANDY SILTSTONE META: fine grained, grey and dark grey. Some disturbed bedding. Occasional meta-silty sandstone interbedding. Scatter of MS sealed sub-vertical joints. Evidence of iron pyrites in closed joints.	FR to FR						JT, 60°, SL JT, 10°, Clay, PR, S JT, 55°, Clay, PR, SL 8.35: Difficult Drilling JT, 5°, MS, PR, S JT, 20°, CA, IR, RF DB DB JT, 45°, MS, PR, S JT, 40°, MS, IR, RF, & DB HB HB JT, 55°, Clay, PR, S, & DBs JT, 75°, Clay, PR, SL DB JT, 10 - 90°, CN, PR, RF, TRACE CLAY ALSO IR, S & SL	
		3% LOSS	83		9.0 15.2	XXXXXX	Hole Terminated at 10.15 m Target depth A general remark								
					10.0 14.2	XXXXXX									
					11.0 13.2										
					12.0 12.2										
					13.0 11.2										
					14.0 10.2										
					15.0 9.2										
					16.0 8.2										

See Explanatory Notes for details of abbreviations & basis of descriptions.

Engineer 1

POSITION : E: 263083.4, N: 6266073.7 (MGA2020 Zone 56) SURFACE ELEVATION : 24.15 (AHD) ANGLE FROM HORIZONTAL : 90°

RIG TYPE : Edson 3000 MOUNTING : Truck CONTRACTOR : Contractor 1

DATE STARTED : 18/12/2009 DATE COMPLETED : 18/12/2009 DATE LOGGED : 18/12/2009 LOGGED BY : ABC CHECKED BY : CB

CASING DIAMETER : NW BARREL (Length) : 1.50 m BIT : IMPREG BIT CONDITION : Good

DGDTP-5.03.2.LIB.GLB.Log ISAU HYBRID BOREHOLE 1 DGDTP-5.03.2.GPJ <<DrawingFile>> 9/9/2020 16:27 10.01.00.11 Datgel Lab and In Situ Tool - DGD (Lib: DGDTP-5.03.2.2020-09-08 Proj: DGDTP-DLST 5.03.1.2020-09-05)

DRILLING			MATERIAL				FRACTURES				ADDITIONAL DATA	
PROGRESS	DEPTH (m)	DESCRIPTION	MOISTURE CONDITION	CONSISTENCY	RELATIVE DENSITY	STRUCTURE & Other Observations	Weathering	ESTIMATED STRENGTH Is(50)	NATURAL FRACTURE (mm)	VISUAL	Description, orientation, infilling or coating, shape, roughness, thickness, other	
DRILLING & CASING	GRAPHIC LOG	ROCK TYPE : Colour, Grain size, Structure (texture, fabric, mineral composition, hardness alteration, cementation, etc as applicable)					VL -0.1 L -0.3 M -1 H -3 VH -10 EH	20 40 100 300 1000				
0.50m U63-1	0.00 - 0.90m	FILL Sandy Gravelly BIOCLASTIC CLAY trace peat: clay is silica, low and medium plasticity, pale brown; gravel fine to coarse angular; sand fine and to coarse grained; scatter of cobbles.				FILL						
1.35m SPT 1 RW/100mm, 50mm, 4.2 HB N=6 1.80m	0.90m - 2.30m	FILL Possibly ALLUVIAL SOIL Silty CLAY: medium plasticity, brown and dark brown; scatter of fine to coarse grained sand.	D	H		1.35: SPT Recovery: 0.4 m 1.55: HP In-situ >=400 kPa					— 1.55: PP In-situ >=400 kPa	
2.85m SPT 1 RW/100mm, 50mm, 4.2 HB N=8 3.30m	2.30m - 3.15m	Clayey SAND: fine and medium grained, brown and pale brown with some grey; slight and low plasticity.				ALLUVIAL SOIL					3.00: A depth related remark	
4.20m U63-2 =5 MPa 4.65m	3.15m - 4.35m	Clayey SAND: pale brown and grey with some red-brown; with some low plasticity sandy clay layers.										
5.70m SPT 3,30/20mm N=32/170mm 6.02m	4.35m - 5.60m	INTERBEDDED Clayey SAND AND CALCAREOUS SAND: sand is fine to coarse grained, low plasticity, pale grey pale brown and pale red-brown; non and low plasticity layers, variable fine to coarse grained sand, scatter of gravel; sand is fine to medium grained, uniform, angular.										
6.35m U63-3 =5 MPa 6.55m	5.60m - 6.35m	Silty CLAY: medium plasticity, dark grey; organic.										
8.05m	6.35m - 8.05m	INTERBEDDED Sandy Silty CLAY AND CALCAREOUS SAND: clay is medium to high plasticity, dark brown and dark grey; sand fine to coarse grained; some organic material, scatter of gravel; sand is fine to medium grained, uniform, angular, dark brown blue.	w < PL to W	S and F		RESIDUAL SOIL becoming EXTREMELY WEATHERED MATERIAL 5.70: SPT Recovery: 0.35 m 5.90: HP In-situ >=400 kPa					— 5.90: PP In-situ >=400 kPa	
		SANDY SILTSTONE META: fine grained, dark grey.				EXTREMELY WEATHERED MATERIAL	DW SW to XW RS					
		SANDY SILTSTONE META AND META SILTSTONE: fine grained, dark grey with red brown and grey-brown, 45deg - 70deg bedding. Scatter of Fe sealed joints at 40deg - 90deg., Fine grained sand.										JT, 0 - 90°, Fe Clay, PR, RF, Also IR & S WITH CLAY POCKETS HB JT, 30 - 60°, Fe, PR, RF, Joints also IR JT, 5°, Fe Clay, PR, RF JT, 90°, Fe, PR, S, H spaced JT, 55°, Clay, PR, S JT, 5°, Clay, PR, RF

See Explanatory Notes for details of abbreviations & basis of descriptions.

POSITION : E: 263083.4, N: 6266073.7 (MGA2020 Zone 56) SURFACE ELEVATION : 24.15 (AHD) ANGLE FROM HORIZONTAL : 90°

RIG TYPE : Edson 3000 MOUNTING : Truck CONTRACTOR : Contractor 1

DATE STARTED : 18/12/2009 DATE COMPLETED : 18/12/2009 DATE LOGGED : 18/12/2009 LOGGED BY : ABC CHECKED BY : CB

CASING DIAMETER : NW BARREL (Length) : 1.50 m BIT : IMPREG BIT CONDITION : Good

DRILLING				MATERIAL				FRACTURES				ADDITIONAL DATA			
PROGRESS	DEPTH (m)	GRAPHIC LOG	GROUP SYMBOL	DESCRIPTION	MOISTURE CONDITION	CONSISTENCY	RELATIVE DENSITY	STRUCTURE & Other Observations	Weathering	ESTIMATED STRENGTH Is(50)	NATURAL FRACTURE (mm)	VISUAL	ADDITIONAL DATA		
													Description, orientation, infilling or coating, shape, roughness, thickness, other		
DRILLING & CASING	WATER	CORE LOSS (FILL DEPTH)	SAMPLES & FIELD TESTS	ROCK TYPE : Colour, Grain size, Structure (texture, fabric, mineral composition, hardness alteration, cementation, etc as applicable)						VL	M	H	EH		(joints, partings, seams, zones, etc)
NMLC	95% Polymer RETURN	0% LOSS	Is(50) q _s =2.9 MPa	SILTSTONE AND SANDY SILTSTONE META: fine grained, grey and dark grey. Some disturbed bedding. Occasional meta-silty sandstone interbedding. Scatter of MS sealed sub-vertical joints. Evidence of iron pyrites in closed joints..				8.35: Difficult Drilling	FR to FR	●				JT, 50°, Clay, PR, SL DB JT, 5°, PR, S JT, 60°, SL JT, 10°, Clay, PR, S JT, 55°, Clay, PR, SL 8.35: Difficult Drilling JT, 5°, MS, PR, S JT, 20°, CA, IR, RF DB DB JT, 45°, MS, PR, S JT, 40°, MS, IR, RF, & DB HB HB JT, 55°, Clay, PR, S, & DBs JT, 75°, Clay, PR, SL DB JT, 10 - 90°, CN, PR, RF, TRACE CLAY ALSO IR, S & SL	
		9.55		Hole Terminated at 10.15 m Target depth A general remark											

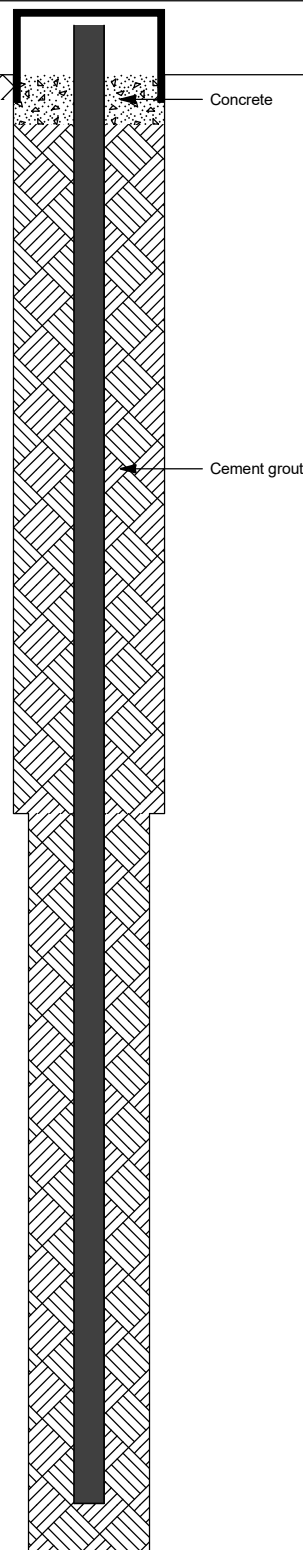
See Explanatory Notes for details of abbreviations & basis of descriptions.

Engineer 1

DGDTP-5.03.2.LIB.GLB Log ISAU HYBRID BOREHOLE 1 DGDTP-5.03.2.GPJ <<DrawingFile>> 9/9/2020 16:27 10.01.00.11 Datgel Lab and In Situ Tool - DGD Lib: DGDTP-5.03.2.2020-09-08 Proj: DGDTP-DUST 5.03.1.2020-09-05

POSITION : E: 248245.3, N: 1267494.7 (MGA2020 Zone 56)	SURFACE ELEVATION : 5.50 (AHD)	ANGLE FROM HORIZONTAL : 90°
RIG TYPE : Drill Rig	MOUNTING :	CONTRACTOR : Contactor 1
DATE STARTED : 1/1/2016	DATE COMPLETED : 2/1/2016	DATE LOGGED : 3/1/2016
LOGGED BY : LB	CHECKED BY : CB	

DRILLING			MATERIAL		CONSTRUCTION DETAILS		
DRILLING & CASING	WATER	GROUND WATER LEVELS	DEPTH (m)	GRAPHIC LOG	GROUP SYMBOL	MATERIAL DESCRIPTION Soil Type, Colour, Plasticity or Particle Characteristic Secondary and Minor Components	CONSTRUCTION REMARK: raining during installation, spanner dropped down hole INSTALLATION DATE: 1/1/2010 A0 Direction: 045 deg
			0.0			SAND: fine to medium	
			2.00m			CALCARENITE: brown	
			5.0				
			10.0				
			15.0			SANDSTONE: high strength, yellow	
			20.0				
			25.0				
			30.0			Hole Terminated at 30.00 m a remark 1	

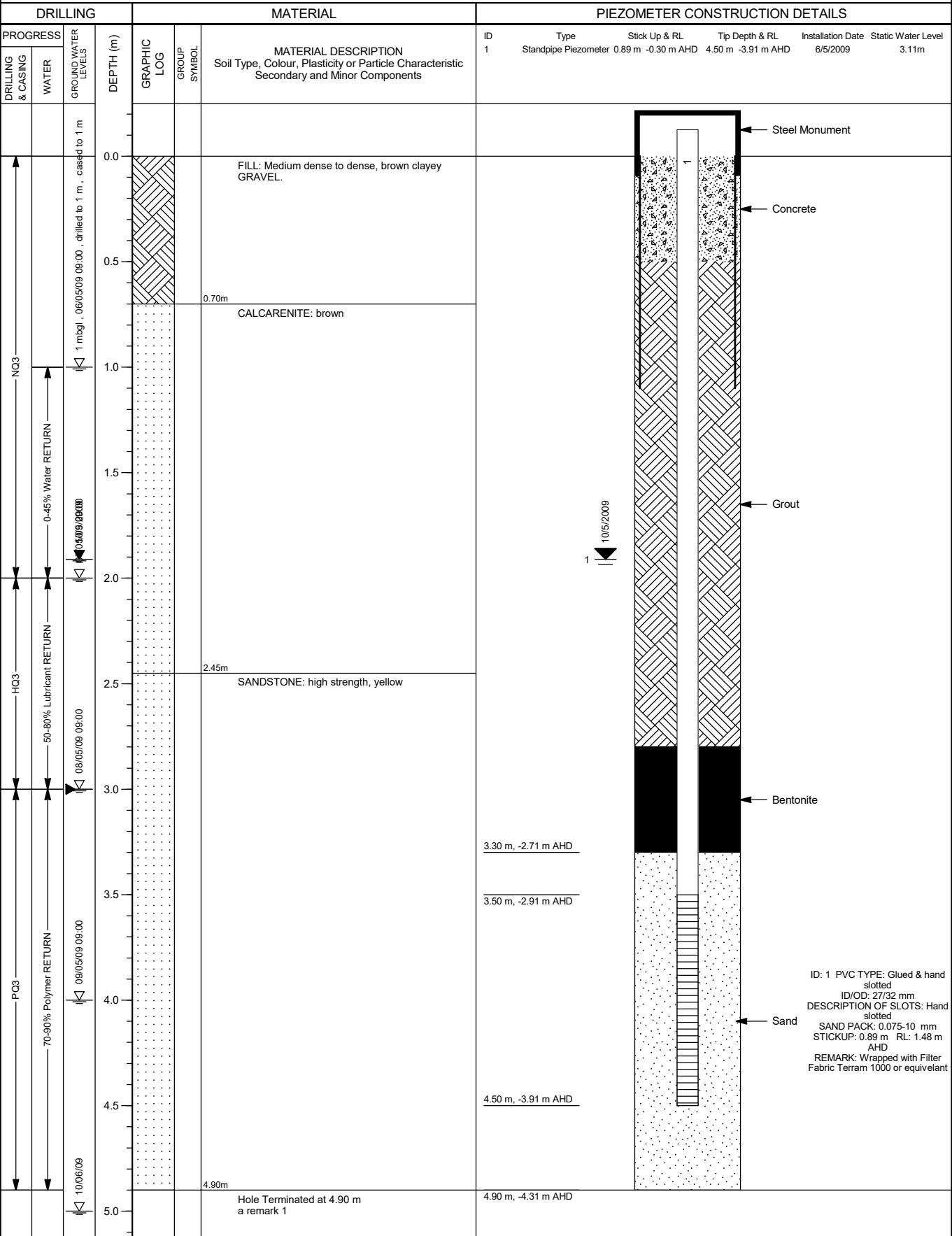


DGDTP-5.03.2.LIB.GLB.Log IS AN INCLINOMETER INSTALLATION 2 DGDTP-5.03.2.GPJ --DrawingFile-- 09/2020 16:27 10.01.00.11 Datgel Lab and in Situ Test - DGD | Lib: DGDTP-5.03.2 2020-09-08 PJ: DGDTP-DLST 5.03.1 2020-09-05

See Explanatory Notes for details of abbreviations & basis of descriptions.

Engineer 1

POSITION : E: 248127.4, N: 1267412.4 (MGA2020 Zone 56)	SURFACE ELEVATION : 0.59 (AHD)	ANGLE FROM HORIZONTAL : 90°
RIG TYPE : Drill Rig	MOUNTING :	CONTRACTOR : Contactor 1
DATE STARTED : 1/1/2016	DATE COMPLETED : 2/1/2016	DATE LOGGED : 3/1/2016
LOGGED BY : LB	CHECKED BY : CB	



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See Explanatory Notes for details of abbreviations & basis of descriptions.

Engineer 1

POSITION : E: 262536.6, N: 6266347.4 (MGA2020 Zone 56) SURFACE ELEVATION : 25.25 (AHD)

EQUIPMENT TYPE : Edson 3000

METHOD :

DATE EXCAVATED : 1/7/2008

LOGGED BY : PB

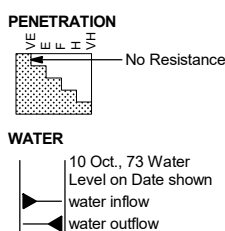
CHECKED BY : CB

EXCAVATION DIMENSIONS :

DRILLING				MATERIAL			
VE	E	F	H	DEPTH (m)	GRAPHIC LOG	MATERIAL DESCRIPTION Soil Type, Colour, Plasticity or Particle Characteristic Secondary and Minor Components	STRUCTURE & Other Observations
				0.0	SC	TOPSOIL Clayey SAND trace gravel: fine to medium grained, brown; organic matter.	TOPSOIL
				0.30m			
				0.45m		Sandy CLAY trace sand trace gravel: medium plasticity, yellow and brown; pockets of yellow sand.	RESIDUAL SOIL 0.35: PP In-situ =200 - 300 kPa
				0.60m		Note: moisture content decreases with depth.	0.60: PP In-situ =350 kPa
				1.00m		Note: strength increasing with depth.	0.85: PP In-situ >450 kPa
				1.27m			
				1.5			
				2.0	CL		2.00: Hydrocarbon
				2.5			
				3.0			
				3.5			

PHOTOGRAPHS NOTES YES NO

METHOD
N Natural Exposure
E Existing Excavation
BH Backhoe Bucket
B Bulldozer Blade
R Ripper



SAMPLES & FIELD TESTS
U - Undisturbed Sample
D - Disturbed Sample
B - Bulk Disturbed Sample
MC - Moisture Content
PP - Pocket Penetrometer (UCS kPa)
VS - Vane Shear; P-Peak, R-Remoulded (uncorrected kPa)
PBT - Plate Bearing Test

CLASSIFICATION SYMBOLS & SOIL DESCRIPTION
Based on Unified Classification System

MOISTURE
D - Dry
M - Moist
W - Wet

CONSISTENCY/RELATIVE DENSITY
VS - Very Soft
S - Soft
F - Firm
St - Stiff
VSt - Very Stiff
H - Hard
Fr - Friable
VL - Very Loose
L - Loose
MD - Medium Dense
D - Dense
VD - Very Dense

See Explanatory Notes for details of abbreviations & basis of descriptions.

Engineer 1

POSITION : E: 262536.6, N: 6266347.4 (MGA2020 Zone 56)	SURFACE ELEVATION : 25.25 (AHD)
EQUIPMENT TYPE : Edson 3000	METHOD :
DATE EXCAVATED : 1/7/2008	LOGGED BY : PB
EXCAVATION DIMENSIONS :	
CHECKED BY : CB	

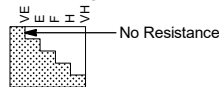
DRILLING				MATERIAL								
VE	F	H	DCP CBR	LAB SOAKED CBR	SAMPLES & FIELD TESTS	DEPTH (m)	GRAPHIC LOG	GROUP SYMBOL	MATERIAL DESCRIPTION Soil Type, Colour, Plasticity or Particle Characteristic Secondary and Minor Components	MOISTURE CONDITION	CONSISTENCY RELATIVE DENSITY	STRUCTURE & Other Observations
						3.5			Sandy CLAY trace sand trace gravel: medium plasticity, yellow and brown; pockets of yellow sand. (continued)			RESIDUAL SOIL
						4.0						
						4.5		CL				
						5.0			SANDSTONE: fine to medium grained, off white and dark orange.			BEDROCK
						5.5			Hole Terminated at 5.50 m Refusal A Remark			
						6.0						
						6.5						
						7.0						

PHOTOGRAPHS NOTES YES NO

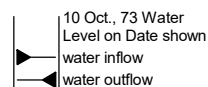
METHOD

- N Natural Exposure
- E Existing Excavation
- BH Backhoe Bucket
- B Bulldozer Blade
- R Ripper

PENETRATION



WATER



SAMPLES & FIELD TESTS

- U - Undisturbed Sample
- D - Disturbed Sample
- B - Bulk Disturbed Sample
- MC - Moisture Content
- PP - Pocket Penetrometer (UCS kPa)
- VS - Vane Shear; P-Peak, R-Remoulded (uncorrected kPa)
- PBT - Plate Bearing Test

CLASSIFICATION SYMBOLS & SOIL DESCRIPTION
Based on Unified Classification System

- MOISTURE**
- D - Dry
 - M - Moist
 - W - Wet

CONSISTENCY/ RELATIVE DENSITY

- VS - Very Soft
- S - Soft
- F - Firm
- St - Stiff
- VSt - Very Stiff
- H - Hard
- Fr - Friable
- VL - Very Loose
- L - Loose
- MD - Medium Dense
- D - Dense
- VD - Very Dense

See Explanatory Notes for details of abbreviations & basis of descriptions.

Engineer 1

DCDT-P-5.03.2-LIB-GLB-Log IS AU PAVEMENTS 1 DCDT-P-5.03.2-CPJ <<DrawingsFiles>> 99/2020-1627-10.01.00.11 Datgel Lab and in Situ Tool - DGD | Lib - DGD | Lib - DGD | P-5.03.2-2020-09-08-Ph | DCDT-DLST-5.03.1-2020-09-05

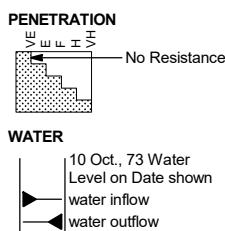
POSITION : E: 262536.6, N: 6266347.4 (MGA2020 Zone 56)	SURFACE ELEVATION : 25.25 (AHD)	ANGLE FROM HORIZONTAL : 90°
RIG TYPE : Edson 3000	MOUNTING : Mount 1	CONTRACTOR : BWME
DRILLER : EFG	DATE STARTED : 1/7/2008	DATE COMPLETED : 5/7/2008
DATE LOGGED : 4/7/2008	LOGGED BY : PB	CHECKED BY : CB

DRILLING				MATERIAL										
VE E F H	DCP AS 1289.6.3.2-1997			LAB SOAKED CBR	SAMPLES & FIELD TESTS	DEPTH (m)	GRAPHIC LOG	GROUP SYMBOL	MATERIAL DESCRIPTION Soil Type, Colour, Plasticity or Particle Characteristic Secondary and Minor Components	MOISTURE CONDITION	CONSISTENCY	RELATIVE DENSITY	STRUCTURE & Other Observations	
	Depth (m)	Blows	CBR											
	0.00 - 0.10	5	10.5%			0.0		SC	TOPSOIL Clayey SAND trace gravel: fine to medium grained, brown; organic matter.	W	S		TOPSOIL	
	0.10 - 0.20	6	12.9%			0.10								
	0.20 - 0.30	10	23.2%			0.20								
	0.30 - 0.40	12	28.6%			0.30								
	0.40 - 0.50	11	25.9%	0.45m		0.40								
	0.50 - 0.60	10	23.2%	D-01A		0.50								
	0.60 - 0.70	15	37%	0.60m		0.60						VSt		RESIDUAL SOIL 0.35: PP In-situ =200 - 300 kPa
	0.70 - 0.80	15	37%			0.70				Note: moisture content decreases with depth.				0.60: PP In-situ =350 kPa
	0.80 - 0.90	16	39.8%			0.80					M			
	0.90 - 1.00	15	37%			0.90						H		0.85: PP In-situ >450 kPa
	1.00 - 1.10	16	39.8%	1.00m		1.00								
	1.10 - 1.20	19	48.5%	SPT 12, 18/115mm HB N=18/115mm		1.10			Note: strength increasing with depth.					
	1.20 - 1.30	30	81.8%			1.20								
	1.30 - 1.32	30	517%	1.27m		1.30								
						1.50								
						2.00							2.00: Hydrocarbon	
						2.50								
						3.00								
						3.50								

PAVEMENT CONDITION / REMARK
A Remark

DCDT-P-5.03.2-1IB.GLB Log IS AU PAVEMENTS 2 DCDT-P-5.03.2-CPJ <-DrawingsFile>> 99/2020 16:27 10:01:00.11 Datgel Lab and in Situ Tool - DGD | Lib. DGD | Lib. DGD | P. 5.03.2-2020-09-08 | Pj. DCDT-DLST 5.03.1 2020-09-05

METHOD
N Natural Exposure
E Existing Excavation
BH Backhoe Bucket
B Bulldozer Blade
R Ripper



SAMPLES & FIELD TESTS
U - Undisturbed Sample
D - Disturbed Sample
B - Bulk Disturbed Sample
MC - Moisture Content
PP - Pocket Penetrometer (UCS kPa)
VS - Vane Shear; P-Peak, R-Remoulded (uncorrected kPa)
PBT - Plate Bearing Test

CLASSIFICATION SYMBOLS & SOIL DESCRIPTION
Based on Unified Classification System

MOISTURE
D - Dry
M - Moist
W - Wet

CONSISTENCY/ RELATIVE DENSITY
VS - Very Soft
S - Soft
F - Firm
St - Stiff
VSt - Very Stiff
H - Hard
Fr - Friable
VL - Very Loose
L - Loose
MD - Medium Dense
D - Dense
VD - Very Dense

See Explanatory Notes for details of abbreviations & basis of descriptions.

Engineer 1

POSITION : E: 262536.6, N: 6266347.4 (MGA2020 Zone 56)	SURFACE ELEVATION : 25.25 (AHD)	ANGLE FROM HORIZONTAL : 90°
RIG TYPE : Edson 3000	MOUNTING : Mount 1	CONTRACTOR : BWME
DRILLER : EFG	DATE STARTED : 1/7/2008	DATE COMPLETED : 5/7/2008
DATE LOGGED : 4/7/2008	LOGGED BY : PB	CHECKED BY : CB

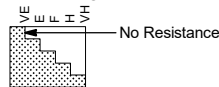
DRILLING					MATERIAL								
VE E F H	DCP AS 1289.6.3.2-1997			LAB SOAKED CBR	SAMPLES & FIELD TESTS	DEPTH (m)	GRAPHIC LOG	GROUP SYMBOL	MATERIAL DESCRIPTION Soil Type, Colour, Plasticity or Particle Characteristic Secondary and Minor Components	MOISTURE CONDITION	CONSISTENCY	RELATIVE DENSITY	STRUCTURE & Other Observations
	Depth (m)	Blows	CBR										
						3.5	[Graphic Log: CL]	CL	Sandy CLAY trace sand trace gravel: medium plasticity, yellow and brown; pockets of yellow sand. (continued)				RESIDUAL SOIL
						4.0							
						4.5							
						5.0			SANDSTONE: fine to medium grained, off white and dark orange.				BEDROCK
						5.5			Hole Terminated at 5.50 m Refusal A Remark				
						6.0							
						6.5							
						7.0							

PAVEMENT CONDITION / REMARK
A Remark

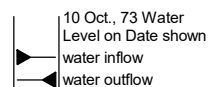
METHOD

- N Natural Exposure
- E Existing Excavation
- BH Backhoe Bucket
- B Bulldozer Blade
- R Ripper

PENETRATION



WATER



SAMPLES & FIELD TESTS

- U - Undisturbed Sample
- D - Disturbed Sample
- B - Bulk Disturbed Sample
- MC - Moisture Content
- PP - Pocket Penetrometer (UCS kPa)
- VS - Vane Shear; P-Peak, R-Remoulded (uncorrected kPa)
- PBT - Plate Bearing Test

CLASSIFICATION SYMBOLS & SOIL DESCRIPTION
Based on Unified Classification System

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- S - Soft
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- St - Stiff
- VSt - Very Stiff
- H - Hard
- Fr - Friable
- VL - Very Loose
- L - Loose
- MD - Medium Dense
- D - Dense
- VD - Very Dense

See Explanatory Notes for details of abbreviations & basis of descriptions.

Engineer 1

DCDT-P 5.03.2 LIB.GLB Log IS AU PAVEMENTS 2 DCDT-P 5.03.2 GPJ <-DrawingsFile>> 09/2020 16:27 10.01.00.11 Datgel Lab and In Situ Tool - DGD | Lib - DGD | Lib - DGD | P - 5.03.2 2020-09-08 Pj: DCDT-DLST 5.03.1 12020-09-05

Engineering Log - Excavation

Project No.: 5.03.1

Client: Datgel	Commenced: 1/7/2008
Project Name: Construction Project	Completed: 5/7/2008
Hole Location: Somewhere, World	Logged By: PB
Hole Position: A 262526.6 m E 6266337.4 m N MGA2020 Zone 56	Checked By: CB

Equipment Type and Model: Edson 3000	RL Surface: 25.25 m
Excavation Dimensions: 3.0 m Long 1.5 m Wide	Datum: AHD Operator: EFG



Drilling Information					Soil Description							Observations		
Method	Penetration	Support	Water	Samples Tests Remarks	Recovery	RL (m)	Depth (m)	Graphic Log	Group Symbol	Material Description Fraction, Colour, Structure, Bedding, Plasticity, Sensitivity, Additional	Moisture Condition	Consistency Relative Density	Pocket Penetrometer UCS (kPa)	Structure and Additional Observations
E	T			PP 0.35 m =200 - 300 kPa 01A D 0.45-0.60 m PP 0.60 m =350 kPa PP 0.85 m >450 kPa		24.3	1		SC	TOPSOIL Clayey SAND trace gravel: fine to medium grained, brown; organic matter.	W	S		TOPSOIL
									CL	Sandy CLAY trace sand trace gravel: medium plasticity, yellow and brown; pockets of yellow sand. Note: moisture content decreases with depth.	M	VSt	x x	RESIDUAL SOIL
										SANDSTONE: fine to medium grained, off white and dark orange; low strength; extremely weathered. Note: strength increasing with depth.		H	x	BEDROCK
										Hole Terminated at 1.32 m Refusal				
						23.3	2							
						22.3	3							
						21.3	4							

Photo	Sketch
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<p>Method</p> <p>N - Natural Exposure X - Existing Excavation BH - Backhoe Bucket R - Ripper E - Excavator</p> <p>Support</p> <p>T - Timbering</p>	<p>Penetration</p> <p>No resistance ranging to refusal</p> 	<p>Water</p> <p>Level (Date) Inflow</p>	<p>Samples and Tests</p> <p>U - Undisturbed Sample D - Disturbed Sample CBR - CBR Mould Sample</p>	<p>Moisture Condition</p> <p>D - Dry M - Moist W - Wet</p> <p>Plastic Limit</p> <p>< PL = PL < PL</p>	<p>Consistency/Relative Density</p> <p>VS - Very Soft S - Soft F - Firm VSt - Very Stiff H - Hard Fr - Friable VL - Very Loose L - Loose MD - Medium Dense D - Dense VD - Very Dense</p>
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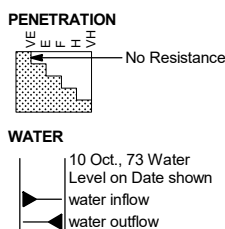
Classification Symbols and Soil Descriptions
Based on Unified Soil Classification System

POSITION : E: 262526.6, N: 6266337.4 (MGA2020 Zone 56)	SURFACE ELEVATION : 25.25 (AHD)
EQUIPMENT TYPE : Edson 3000	METHOD :
DATE EXCAVATED : 1/7/2008	LOGGED BY : PB
EXCAVATION DIMENSIONS : 3.00 m LONG 1.50 m WIDE	
CHECKED BY : CB	

DRILLING				MATERIAL											
VE	E	F	H	SUPPORT	GROUND WATER LEVELS	SAMPLES & FIELD TESTS	DEPTH (m)	GRAPHIC LOG	GROUP SYMBOL	MATERIAL DESCRIPTION Soil Type, Colour, Plasticity or Particle Characteristic Secondary and Minor Components	MOISTURE CONDITION	CONSISTENCY RELATIVE DENSITY	POCKET PENETRO-METER	DCP TEST Blows per 100 mm	STRUCTURE & Other Observations
							0.0		SC	TOPSOIL Clayey SAND trace gravel: fine to medium grained, brown; organic matter.	W	S		1	TOPSOIL
							0.30m							2	
							0.45m			Sandy CLAY trace sand trace gravel: medium plasticity, yellow and brown; pockets of yellow sand.			X X	4	RESIDUAL SOIL 0.35: PP In-situ =200 - 300 kPa
							0.60m		CL	Note: moisture content decreases with depth.		VSt	X	6	0.60: PP In-situ =350 kPa
							0.94m				M		X	9	0.85: PP In-situ >450 kPa
							1.0			SANDSTONE: fine to medium grained, off white and dark orange; low strength; extremely weathered.		H		10	BEDROCK
							1.32m			Note: strength increasing with depth.				8	
							1.5			Hole Terminated at 1.32 m Refusal				7	
							2.0								
							2.5								
							3.0								
							3.5								

PHOTOGRAPHS NOTES YES NO

- METHOD**
- N Natural Exposure
 - E Existing Excavation
 - BH Backhoe Bucket
 - B Bulldozer Blade
 - R Ripper
- SUPPORT**
- T Timbering



- SAMPLES & FIELD TESTS**
- U50 - Undisturbed Sample 50 mm diameter
 - D - Disturbed Sample
 - B - Bulk Disturbed Sample
 - MC - Moisture Content
 - PP - Pocket Penetrometer (UCS kPa)
 - VS - Vane Shear; P-Peak, R-Remoulded (uncorrected kPa)
 - PBT - Plate Bearing Test

CLASSIFICATION SYMBOLS & SOIL DESCRIPTION
Based on Unified Classification System

- MOISTURE**
- D - Dry
 - M - Moist
 - W - Wet

- CONSISTENCY/ RELATIVE DENSITY**
- VS - Very Soft
 - S - Soft
 - F - Firm
 - St - Stiff
 - VSt - Very Stiff
 - H - Hard
 - Fr - Friable
 - VL - Very Loose
 - L - Loose
 - MD - Medium Dense
 - D - Dense
 - VD - Very Dense

See Explanatory Notes for details of abbreviations & basis of descriptions.

Engineer 1



Project Construction Project
 Location Somewhere, World
 Position A
 Job No. 5.03.1
 Client Datgel

Lat 12.5 dec degrees
 Long 105.9 dec degrees
 East 262526.6 m
 North 6266337.4 m MGA2020 Zone 56
 Surface RL 25.25 m AHD
 Contractor BWME
 Machine Edson 3000
 Bucket Size

TEST PIT: V-TP AS

Sheet 1 OF 1
 Date 1/7/2008
 Logged PB

Excavation				Sampling			Field Material Description							
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY	DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS	
E	VE		0	25.25	PP 0.35 m =200 - 300 kPa 01A D 0.45-0.60 m PP 0.60 m =350 kPa			SC	TOPSOIL Clayey SAND trace gravel: fine to medium grained, brown; organic matter.	W	S		TOPSOIL	
			0.30					CL	Sandy CLAY trace sand trace gravel: medium plasticity, yellow and brown; pockets of yellow sand.		VSt		RESIDUAL SOIL	
			24.95								M			
			0.94								H			
	F		1	24.31	PP 0.85 m >450 kPa			SANDSTONE: fine to medium grained, off white and dark orange; low strength; extremely weathered.				BEDROCK		
	VH			1.32				Hole Terminated at 1.32 m Refusal						
			2											
			3											
			4											

Sketch & Other Observations

Comments
Refusal

Checked CB
Date 4/7/2008

DGDTP-5.032 LIB.GLB Log IS AU TEST PIT 3 DGDTP-5.032.GPJ <<DrawingFile>> 9/9/2020 16:27 10.01.00.11 Datgel Lab and In Situ Tool - DGD Lib DGDTP-5.032.2020-09-08 Pj: DGDTP-DLST 5.03.1.2020-09-05



Project Construction Project
 Location Somewhere, World
 Position A
 Job No. 5.03.1
 Client Datgel

Lat 12.5 dec degrees
 Long 105.9 dec degrees
 East 262526.6 m
 North 6266337.4 m MGA2020 Zone 56
 Surface RL 25.25 m AHD
 Contractor BWME
 Machine Edson 3000
 Bucket Size

TEST PIT: V-TP AS

Sheet 1 OF 1
 Date 1/7/2008
 Logged PB

Excavation			Sampling			Field Material Description								
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY	DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS	
E	VE		0.0	25.25	PP 0.35 m =200 - 300 kPa 01A D 0.45-0.60 m PP 0.60 m =350 kPa PP 0.85 m >450 kPa			SC	TOPSOIL Clayey SAND trace gravel: fine to medium grained, brown; organic matter.	W	S		TOPSOIL	
			0.30	24.95				CL	Sandy CLAY trace sand trace gravel: medium plasticity, yellow and brown; pockets of yellow sand.			VSt	RESIDUAL SOIL	
			0.94	24.31					SANDSTONE: fine to medium grained, off white and dark orange; low strength; extremely weathered.			M	H	BEDROCK
			1.32						Hole Terminated at 1.32 m Refusal					

Sketch & Other Observations

Grid area for sketch and observations.

Comments
Refusal

Checked CB
 Date 4/7/2008



Project Construction Project
 Location Somewhere, World
 Position A
 Job No. 5.03.1
 Client Datgel

Lat 12.5 dec degrees
 Long 105.9 dec degrees
 East 262526.6 m
 North 6266337.4 m MGA2020 Zone 56
 Surface RL 25.25 m AHD
 Contractor BWME
 Machine Edson 3000
 Bucket Size

TEST PIT: V-TP AS

Sheet 1 OF 1
 Date 1/7/2008
 Logged PB

Excavation			Sampling			Field Material Description							
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY	DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS
E	VE		0	25.25	PP 0.35 m =200 - 300 kPa 01A D 0.45-0.60 m PP 0.60 m =350 kPa PP 0.85 m >450 kPa			SC	TOPSOIL Clayey SAND trace gravel: fine to medium grained, brown; organic matter.	W	S		TOPSOIL
			0.30					CL	Sandy CLAY trace sand trace gravel: medium plasticity, yellow and brown; pockets of yellow sand.			VSt	RESIDUAL SOIL
			24.95							M			
			0.94							H		BEDROCK	
	F		1	24.31				SANDSTONE: fine to medium grained, off white and dark orange; low strength; extremely weathered.					
	VH			1.32				Hole Terminated at 1.32 m Refusal					
			2										
			3										
			4										

Sketch & Other Observations

Area for sketch and observations with a dotted grid background.

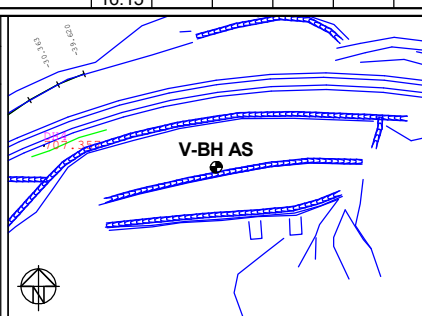
Comments Refusal

Checked CB
 Date 4/7/2008

CLIENT : Datgel	POSITION : A1.10	DATE : 18/12/2009
CONTRACTOR : Contractor 1	EASTING : 263083.4 m	DRILLING RIG : Edson 3000
PROJECT : Construction Project	NORTHING : 6266073.7 m	CONTRACTOR: Contractor 1
LOCATION : Somewhere, World	COORD. SYS. : MGA2020 Zone 56	OPERATOR : OR
PROJECT No. : 5.03.1	GROUND RL : 24.15 m AHD	HOLE DIA. : 90 mm
		METHOD : NMLC/RR

Depth (m)	Water	Depth (m) (Thickness)	Graphic Log	Description	Elevation (m AHD)	Sample	Standard Penetration Test				PSD		Remarks	
							Seating Drive	Blows 1	Blows 2	N Value	N Value	D50 (mm)		% Fines (< 0.075 mm)
1.0		(1.05)		FILL Sandy Gravelly BIOCLASTIC CLAY trace peat: clay is silica, low and medium plasticity, pale brown; gravel fine to coarse angular; sand fine and to coarse grained; scatter of cobbles; hard; dry.	23.10	U1					2.7	0		
2.0		(1.25)		FILL Possibly ALLUVIAL SOIL Silty CLAY: medium plasticity, brown and dark brown; scatter of fine to coarse grained sand; hard; dry.		SPTLS1	6	4	2	6				
3.0		(0.85)		Clayey SAND: fine and medium grained, brown and pale brown with some grey; slight and low plasticity; very loose; wet.	21.85									
4.0		(0.85)		Clayey SAND: pale brown and grey with some red-brown; with some low plasticity sandy clay layers; soft; wet.	21.00	SPTLS2	0	3	5	8			A depth related remark	
5.0		(0.35)		Sandy CLAY: low plasticity, pale grey; sand fine and medium grained; soft; wet.	20.15									
5.0		(1.10)		INTERBEDDED Clayey SAND AND CALCAREOUS SAND: sand is fine to coarse grained, low plasticity, pale grey pale brown and pale red-brown; non and low plasticity layers, variable fine to coarse grained sand, scatter of gravel; sand is fine to medium grained, uniform, angular; medium dense; wet.	18.70	U2					0.183	46		
6.0		(0.75)		Silty CLAY: medium plasticity, dark grey; organic; soft and firm; wet.	18.55									
6.0		(0.75)		INTERBEDDED Sandy Silty CLAY AND CALCAREOUS SAND: clay is medium to high plasticity, dark brown and dark grey; sand fine to coarse grained; some organic material, scatter of gravel; sand is fine to medium grained, uniform, angular, dark brown blue; soft to firm; Moist, dry of plastic limit to wet.	17.80	SPTLS	3	30	2	REF				
7.0		(0.15)		SANDY SILTSTONE META: fine grained, dark grey; Moist, dry of plastic limit to wet.	17.70									
7.0		(0.10)		SANDY SILTSTONE META AND META SILTSTONE: fine grained, dark grey with red brown and grey-brown, 45deg - 70deg bedding. Scatter of Fe	17.60	C1								
8.0		(1.45)			16.15	C								

Date	Time	Hole Depth (m)	Casing Depth (m)	Water Depth (m)
18/12/2009	00.00	3.20	2.00	2.3



A general remark	
LOGGED BY : ABC	DATE: 18/12/2009
CHECKED BY : CB	DATE: 21/12/2009
APPROVED BY : AB	DATE: 21/12/2009

DGDTP-5.032.LIB.GLB Log IS COASTAL BOREHOLE 1 DGDTP-5.032.GPJ <<DamingFile>> 9/9/2020 16:28 10.01.00.11 Datgel Lab and in Situ Test-DGD | Lib, DGDTP-5.03 2/2020-09-08 Pj; DGDTP-DLST 5.03.1 2020-09-06

CLIENT : Datgel	POSITION : A1.10	Water Depth: 0.00 m
CONTRACTOR : Contractor 1	EASTING : 263083.4 m	Tide: 1.20 m
PROJECT : Construction Project	NORTHING : 6266073.7 m	Corr. Depth: 24.15 m
LOCATION : Somewhere, World	COORD. SYS. : MGA2020 Zone 56	Vertical Datum: AHD
PROJECT No. : 5.03.1	GROUND RL : 24.15 m AHD	Operator: OR
		Logged By: ABC

Elevation (m)	Depth (m)	Graphic Log	Description	Sample	Standard Penetration Test			Rock Quality			% Fines (< 0.075 mm)	Remarks
					Blows	N Value	N Value Test B	TCR	SCR	RQD		
24.0			FILL Sandy Gravelly BIOCLASTIC CLAY trace peat: clay is silica, low and medium plasticity, pale brown; gravel fine to coarse angular; sand fine and to coarse grained; scatter of cobbles; hard; dry.	U1							0	
23.0	1.0		FILL Possibly ALLUVIAL SOIL Silty CLAY: medium plasticity, brown and dark brown; scatter of fine to coarse grained sand; hard; dry.	SPTLS1	6, 4, 2	6	●					
22.0	2.0		Clayey SAND: fine and medium grained, brown and pale brown with some grey; slight and low plasticity; very loose; wet.									
21.0	3.0		Clayey SAND: pale brown and grey with some red-brown; with some low plasticity sandy clay layers; soft; wet.	SPTLS2	0, 3, 5	8	●					A depth related remark
20.0	4.0		Sandy CLAY: low plasticity, pale grey; sand fine and medium grained; soft; wet.									
19.0	5.0		INTERBEDDED Clayey SAND AND CALCAREOUS SAND: sand is fine to coarse grained, low plasticity, pale grey pale brown and pale red-brown; non and low plasticity layers, variable fine to coarse grained sand, scatter of gravel; sand is fine to medium grained, uniform, angular; medium dense; wet.	U2							46.2	
18.0	6.0		Silty CLAY: medium plasticity, dark grey; organic; soft and firm; wet. INTERBEDDED Sandy Silty CLAY AND CALCAREOUS SAND: clay is medium to high plasticity, dark brown and dark grey; sand fine to coarse grained; some organic material, scatter of gravel; sand is fine to medium grained, uniform, angular, dark brown blue; soft to firm; Moist, dry of plastic limit to wet.	SPTLS	3, 30, 2	REF		●				
17.0	7.0		SANDY SILTSTONE META: fine grained, dark grey; Moist, dry of plastic limit to wet. SANDY SILTSTONE META AND META SILTSTONE: fine grained, dark grey with red brown and grey-brown, 45deg - 70deg bedding. Scatter of Fe sealed joints at 40deg - 90deg., Fine grained sand.; very low to high strength; residual soil to slightly weathered.	C1								
				C								

DGDTP-5.032.LIB.GLB.Log IS COASTAL BOREHOLE 2 DGDTP-5.032.GPJ <-<DmmrgrfMap>> 9/9/2020 16:28 10.01.00.11 Datgel Lab and in Situ Tool-DGD Lib-DGDTP-5.032.2020-09-08 Ph; DGDTP-DLST-5.03.1.2020-09-06

Equipment: Edson 3000
 BH Diameter: 90 mm
 Fluid Flush: Polymer
 Method: NMLC/RR
 Core Diameter: 52 mm
 Casing Depth: 3.2 m

Hole ID **V-BH AS**

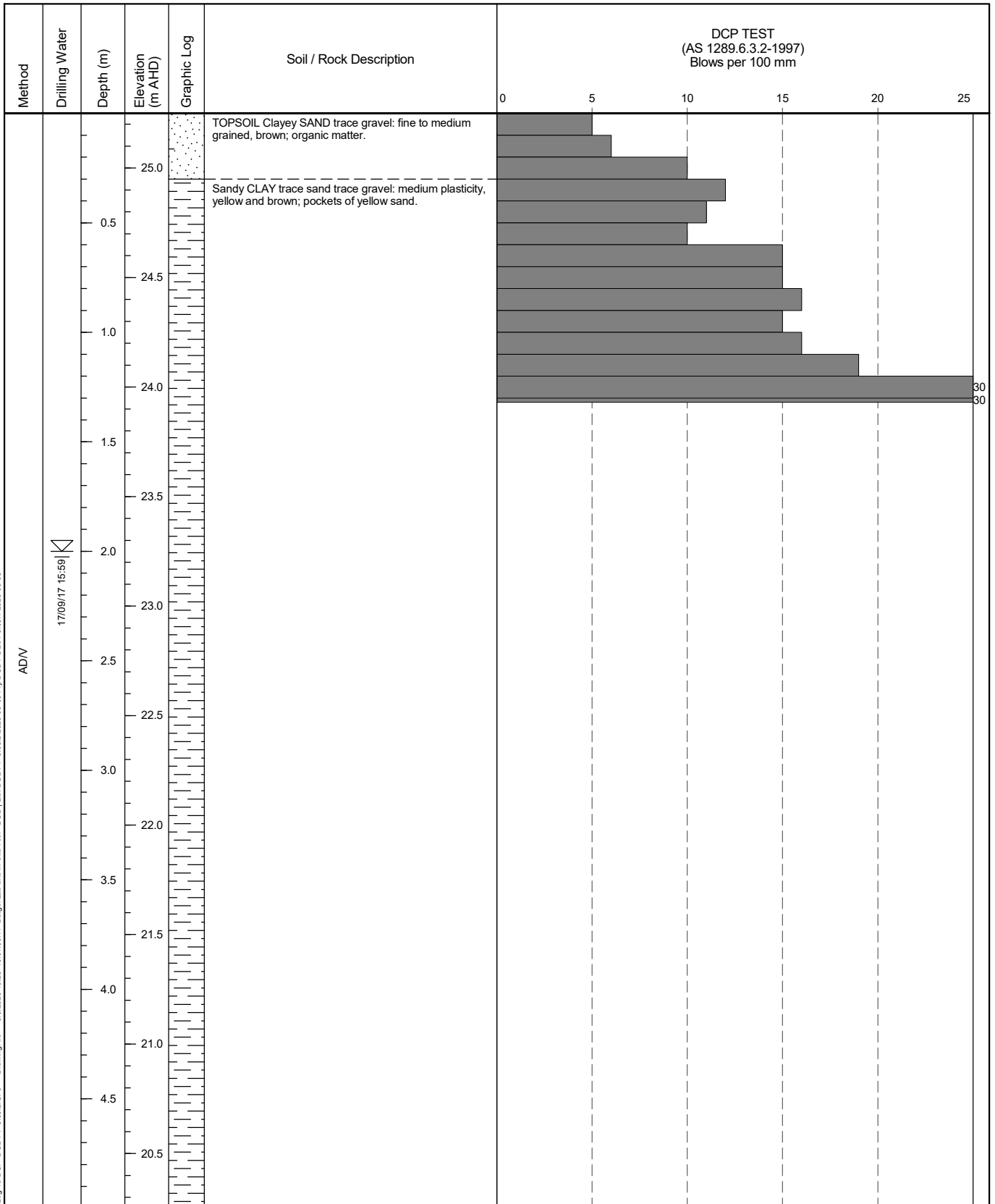
CLIENT : Datgel CONTRACTOR : Contractor 1 PROJECT : Construction Project LOCATION : Somewhere, World PROJECT No. : 5.03.1	POSITION : A1.10 EASTING : 263083.4 m NORTHING : 6266073.7 m COORD. SYS. : MGA2020 Zone 56 GROUND RL : 24.15 m AHD	Water Depth: 0.00 m Tide: 1.20 m Corr. Depth: 24.15 m Vertical Datum: AHD Operator: OR Logged By: ABC
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Elevation (m)	Depth (m)	Graphic Log	Description	Sample	Standard Penetration Test			Rock Quality			% Fines (< 0.075 mm)	Remarks
					Blows	N Value	N Value Test B	TCR	SCR	RQD		
16.0		XXXXXX	SILTSTONE AND SANDY SILTSTONE META: fine grained, grey and dark grey, Some disturbed bedding. Occasional meta-silty sandstone interbedding. Scatter of MS sealed sub-vertical joints. Evidence of iron pyrites in closed joints.; high to very high strength; fresh.	C								Difficult Drilling
15.0	9.0	XXXXXX		C5								
14.0	10.0	XXXXXX	Hole Terminated at 10.15 m Target depth A general remark									
13.0	11.0											
12.0	12.0											
11.0	13.0											
10.0	14.0											
9.0	15.0											

DGDTP-5.032.LIB.GLB.Lib IS COASTAL BOREHOLE 2 DGDTP-5.032.GPJ <<DrawingFile>> 9/9/2020 16:28 10.01.00.11 Datgel Lab and in Situ Tool-DGD Lib-DGDTP-5.032.2020-09-08 P1; DGDTP-DLST 5.03.1.2020-09-08

Equipment: Edson 3000 BH Diameter: 90 mm Fluid Flush: Polymer Method: NMLC/RR	Core Diameter: 52 mm Casing Depth: 3.2 m
--	---

CLIENT : Datgel	POSITION : A	SHEET : 1 OF 2
CONTRACTOR : BWME	EASTING : 262536.6 m	STATUS : 0
PROJECT : Construction Project	NORTHING : 6266347.4 m	LOGGED BY : PB
LOCATION : Somewhere, World	COORD. SYS. : MGA2020 Zone 56	DRILL DATE : 1/7/2008 -
PROJECT No. : 5.03.1	GROUND RL : 25.25 m AHD	5/7/2008



RIG :	CHECKED BY : CB	REMARK
INCLINATION :	CHECKED DATE : 4/7/2008	A Remark
AZIMUTH :	APPROVED BY : AB	
HOLE DIA. :	APPROVED DATE : 5/7/2008	

CLIENT : Datgel	POSITION : A	SHEET : 2 OF 2
CONTRACTOR : BWME	EASTING : 262536.6 m	STATUS : 0
PROJECT : Construction Project	NORTHING : 6266347.4 m	LOGGED BY : PB
LOCATION : Somewhere, World	COORD. SYS. : MGA2020 Zone 56	DRILL DATE : 1/7/2008 -
PROJECT No. : 5.03.1	GROUND RL : 25.25 m AHD	5/7/2008

Method	Drilling Water	Depth (m)	Elevation (m AHD)	Graphic Log	Soil / Rock Description	DCP TEST (AS 1289.6.3.2-1997) Blows per 100 mm									
						0	5	10	15	20	25				
ADV		20.0			SANDSTONE: fine to medium grained, off white and dark orange.										
		5.5			Hole Terminated at 5.50 m Refusal										
		19.5													
		6.0													
		19.0													
		6.5													
		18.5													
		7.0													
		18.0													
		7.5													
		17.5													
		8.0													
		17.0													
		8.5													
		16.5													
		9.0													
		16.0													
		9.5													
		15.5													

DGDTP-5.032.LIB.GLB.Log IS DCP DGDTP-5.032.CPJ <DrawingFile> 9/9/2020 16:28 10.01.0011 Datgel Lab and In Situ Test - DGDTP-5.032.2020-09-08 PJ: DGDTP-5.03.1.2020-09-05

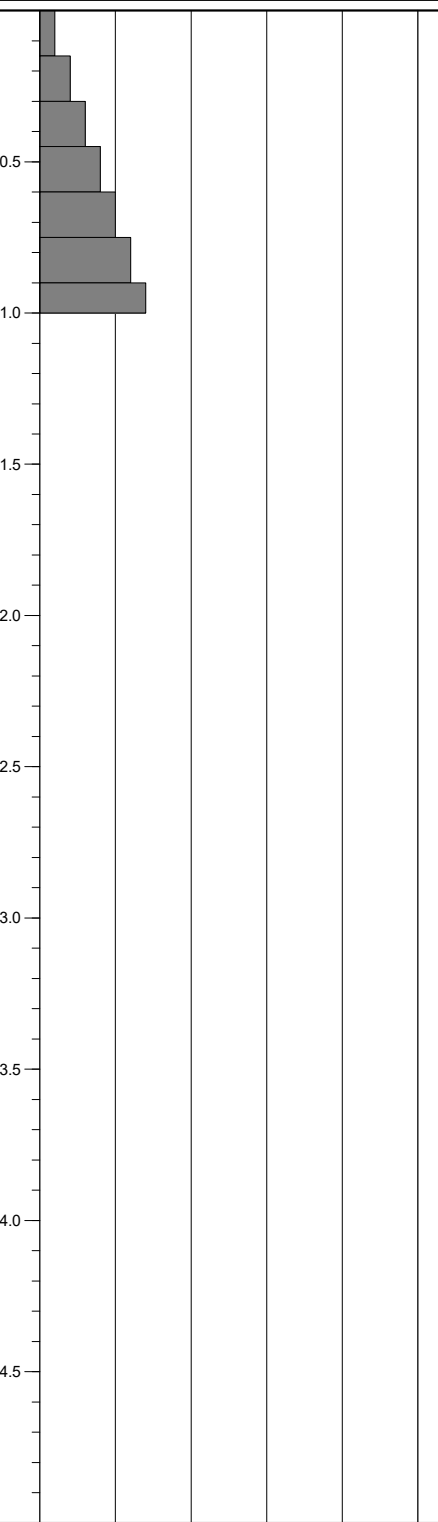
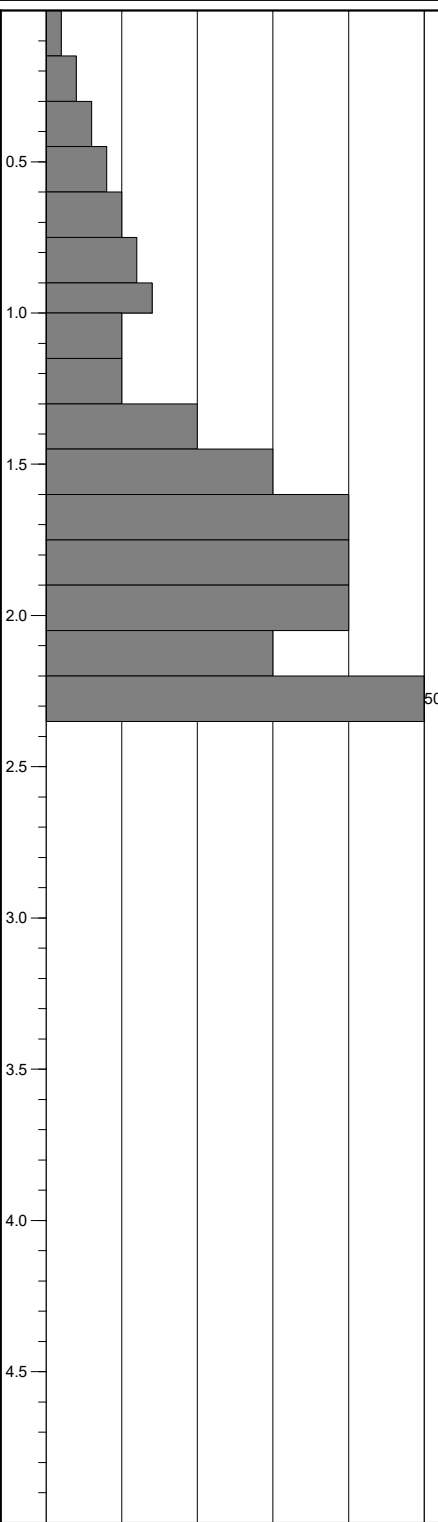
RIG :	CHECKED BY : CB	REMARK
INCLINATION :	CHECKED DATE : 4/7/2008	A Remark
AZIMUTH :	APPROVED BY : AB	
HOLE DIA. :	APPROVED DATE : 5/7/2008	

CLIENT : Datgel
 CONTRACTOR : Contractor 1
 PROJECT : Construction Project
 LOCATION : Somewhere, World
 PROJECT No. : 5.03.1

SHEET : 1 OF 1

TEST: V-In Situ
 LOGGED: LB 13/11/2009 CHECKED: CB 13/11/2009
 EASTING: 181.3 m NORTHING: 50.2 m
 MGA2020 Zone 56
 GROUND RL: 1.01 m AHD
 Blows per 100 mm (AS 1289.6.3.2-1997)

TEST: V-In Situ 2
 LOGGED: LB 13/11/2009 CHECKED: CB 13/11/2009
 EASTING: 262899.9 m NORTHING: 6266086.4 m
 MGA2020 Zone 56
 GROUND RL: 1.01 m AHD
 Blows per 100 mm (AS 1289.6.3.2-1997)

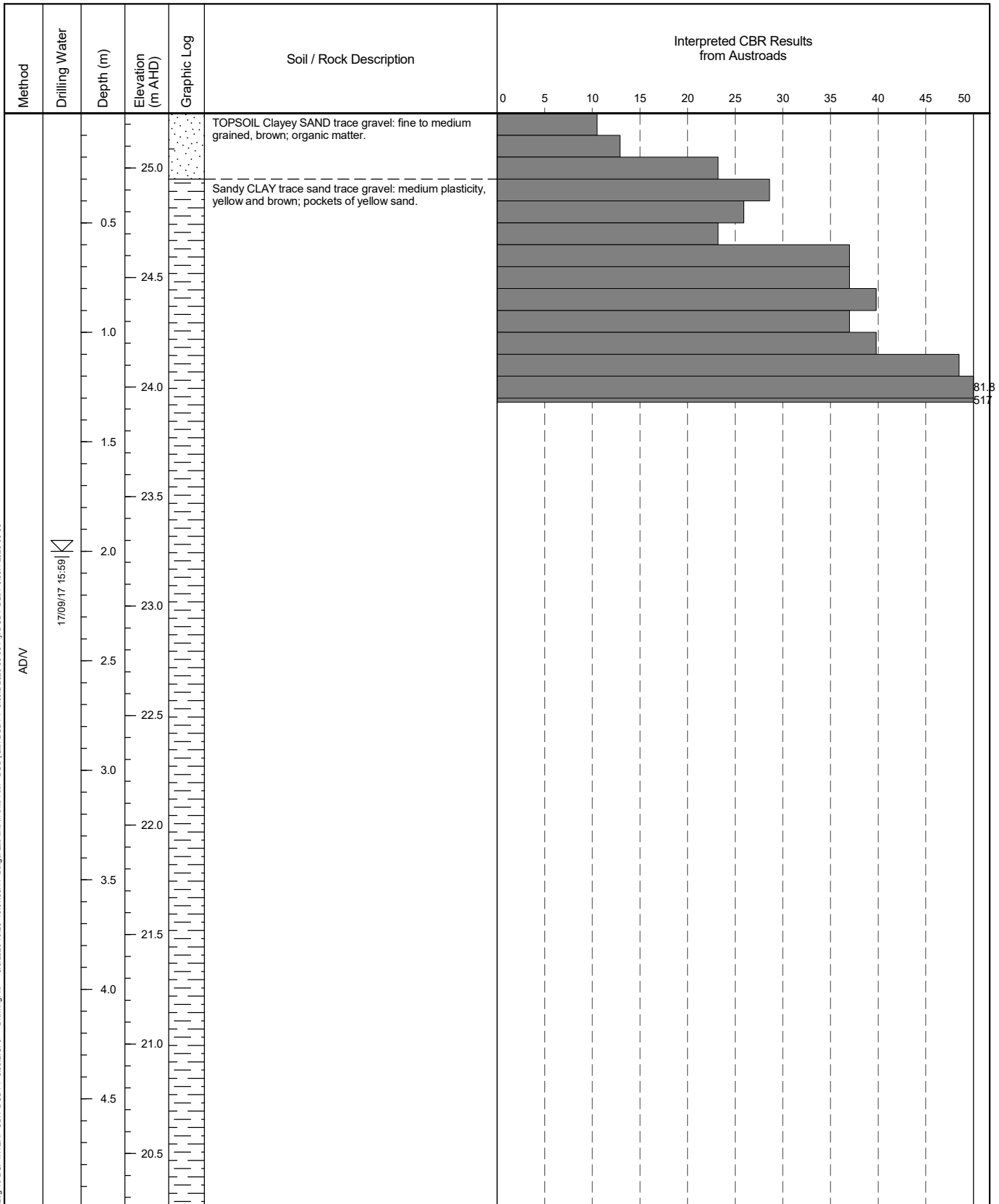


Comments
 General remark about V-In Situ

Comments
 General remark about V-In Situ 2

DGDTP-5.032.LIB.GLIB_Log_IS.DCP_3.PEER.PAGE.DGDTP-5.032.CPJ -<Dminingfile>> 9/8/2020 16:28 10.01.00.11 Datgel.Lab.and.In.Situ.Tool.DGD.LIB.DGDTP-5.03.2.2020-09-08.Fly.DGDTP.DLST.5.03.1.2020-09-05

CLIENT : Datgel	POSITION : A	SHEET : 1 OF 2
CONTRACTOR : BWME	EASTING : 262536.6 m	STATUS : 0
PROJECT : Construction Project	NORTHING : 6266347.4 m	LOGGED BY: PB
LOCATION : Somewhere, World	COORD. SYS. : MGA2020 Zone 56	DRILL DATE : 1/7/2008 -
PROJECT No. : 5.03.1	GROUND RL : 25.25 m AHD	5/7/2008



DGDTP-5.032.LIB.GLB.Log IS DCF INTERP.CBR DGDTP-5.032.GPJ <<DrawingFile>> 9/9/2020 16:28 10.01.00.11 Datgel Lab and In Situ Test - DGD | Lib: DGDTP-5.032.2020-09-08 Pj; DGDTP-5.03.1.2020-09-05

RIG :	CHECKED BY : CB	REMARK
INCLINATION :	CHECKED DATE : 4/7/2008	A Remark
AZIMUTH :	APPROVED BY : AB	
HOLE DIA. :	APPROVED DATE : 5/7/2008	

CLIENT : Datgel	POSITION : A	SHEET : 2 OF 2
CONTRACTOR : BWME	EASTING : 262536.6 m	STATUS : 0
PROJECT : Construction Project	NORTHING : 6266347.4 m	LOGGED BY : PB
LOCATION : Somewhere, World	COORD. SYS. : MGA2020 Zone 56	DRILL DATE : 1/7/2008 -
PROJECT No. : 5.03.1	GROUND RL : 25.25 m AHD	5/7/2008

Method	Drilling Water	Depth (m)	Elevation (m AHD)	Graphic Log	Soil / Rock Description	Interpreted CBR Results from Austroads														
						0	5	10	15	20	25	30	35	40	45	50				
ADV		20.0		.....	SANDSTONE: fine to medium grained, off white and dark orange.															
		5.5		.....	Hole Terminated at 5.50 m Refusal															
		19.5		.....															
		6.0		.....															
		19.0		.....															
		6.5		.....															
		18.5		.....															
		7.0		.....															
		18.0		.....															
		7.5		.....															
		17.5		.....															
		8.0		.....															
		17.0		.....															
		8.5		.....															
		16.5		.....															
		9.0		.....															
		16.0		.....															
		9.5		.....															
		15.5		.....															

DGDTP-5.03.2.LIB.GLB.Lib IS DCF INTERP CBR DGDTP-5.03.2.CPJ <<DrawingFile>> 9/9/2020 16:28 10.01.00.11 Datgel Libs and In Situ Test_DGD | Lib DGDTP-5.03.2.2020-09-08 Pj | DGDTP-5.03.1.2020-09-05

RIG :	CHECKED BY : CB	REMARK
INCLINATION :	CHECKED DATE : 4/7/2008	A Remark
AZIMUTH :	APPROVED BY : AB	
HOLE DIA. :	APPROVED DATE : 5/7/2008	

Hole ID

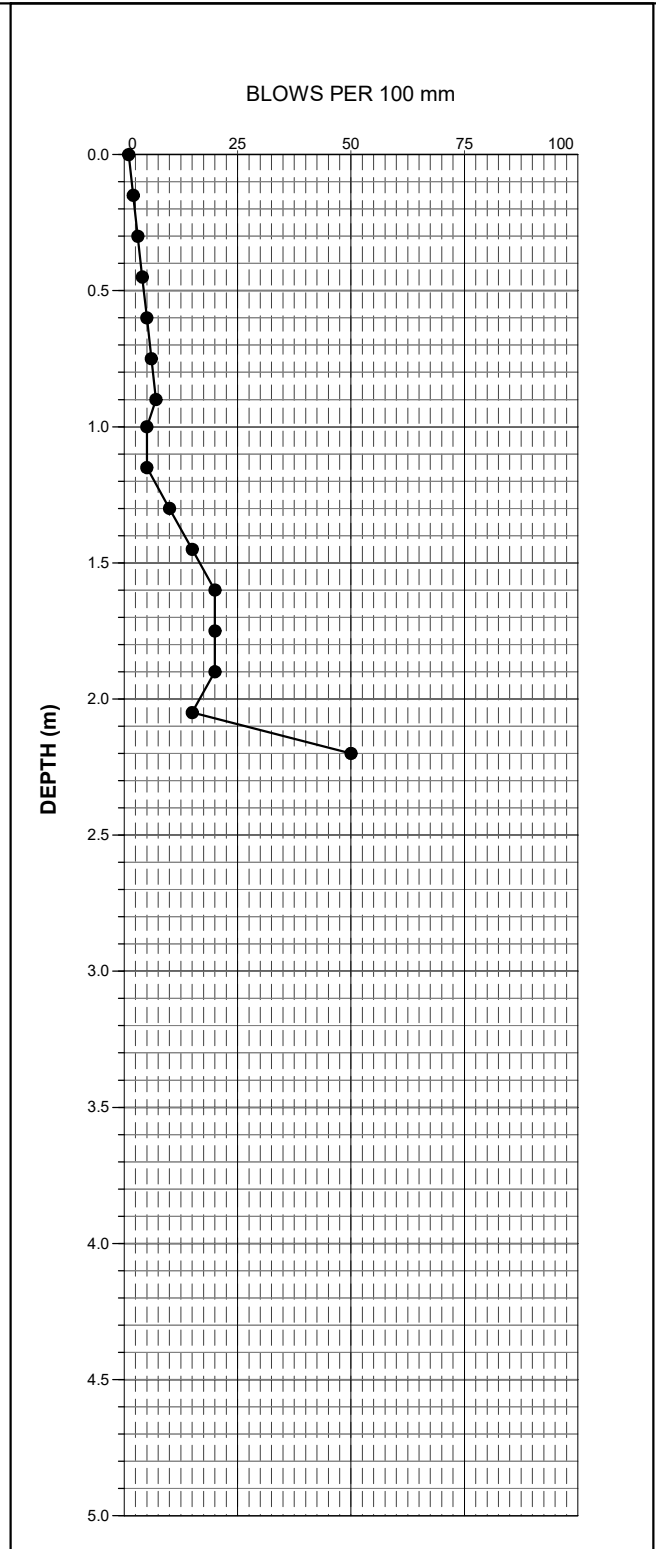
V-In Situ

CLIENT : Datgel
 CONTRACTOR : Contractor 1
 PROJECT : Construction Project
 LOCATION : Somewhere, World
 PROJECT No. : 5.03.1

POSITION : A
 EASTING : 181.3 m
 NORTHING : 50.2 m
 COORD. SYS. : MGA2020 Zone 56
 GROUND RL : 1.01 m AHD

SHEET : 1 OF 1
 STATUS : 1
 LOGGED BY : LB
 DRILL DATE : 13/1/2010

DEPTH (m)	NO OF BLOWS PER 100 mm
0.00	1
0.15	2
0.30	3
0.45	4
0.60	5
0.75	6
0.90	7
1.00	5
1.15	5
1.30	10
1.45	15
1.60	20
1.75	20
1.90	20
2.05	15
2.20	50



Final Depth (m)	1.35
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DGDTP-5.032.LIB.GLB.Lib IS DCP WITH TEXT AND PLOT DGDTP-5.032.GPJ <-DrawingFile> 99/2020 1628 10.01.00.11 Datgel Lib and In Situ Tool - DGD Lib DGDTP-5.032.2020-09-08 Pj; DGDTP-5.031.2020-09-05

RIG : Drill Rig
 INCLINATION : -90°
 AZIMUTH :
 HOLE DIA. : 105/95 mm

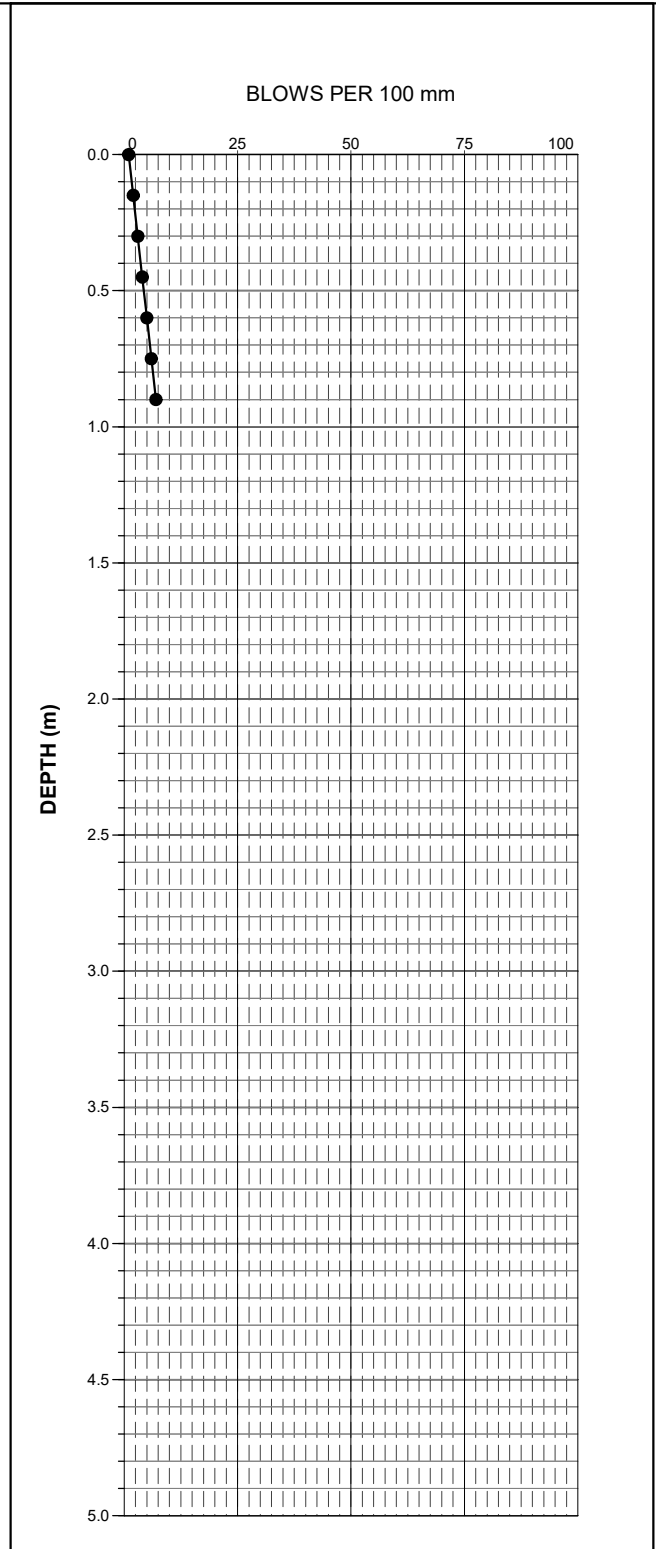
CHECKED BY : CB
 CHECKED DATE : 13/11/2009
 APPROVED BY : AB
 APPROVED DATE : 14/1/2010

REMARK
 General remark about V-In Situ

Hole ID **V-In Situ 2**

CLIENT : Datgel	POSITION : B	SHEET : 1 OF 1
CONTRACTOR : Contractor 1	EASTING : 262899.9 m	STATUS : 1
PROJECT : Construction Project	NORTHING : 6266086.4 m	LOGGED BY : LB
LOCATION : Somewhere, World	COORD. SYS. : MGA2020 Zone 56	DRILL DATE : 13/1/2010
PROJECT No. : 5.03.1	GROUND RL : 1.01 m AHD	

DEPTH (m)	NO OF BLOWS PER 100 mm
0.00	1
0.15	2
0.30	3
0.45	4
0.60	5
0.75	6
0.90	7



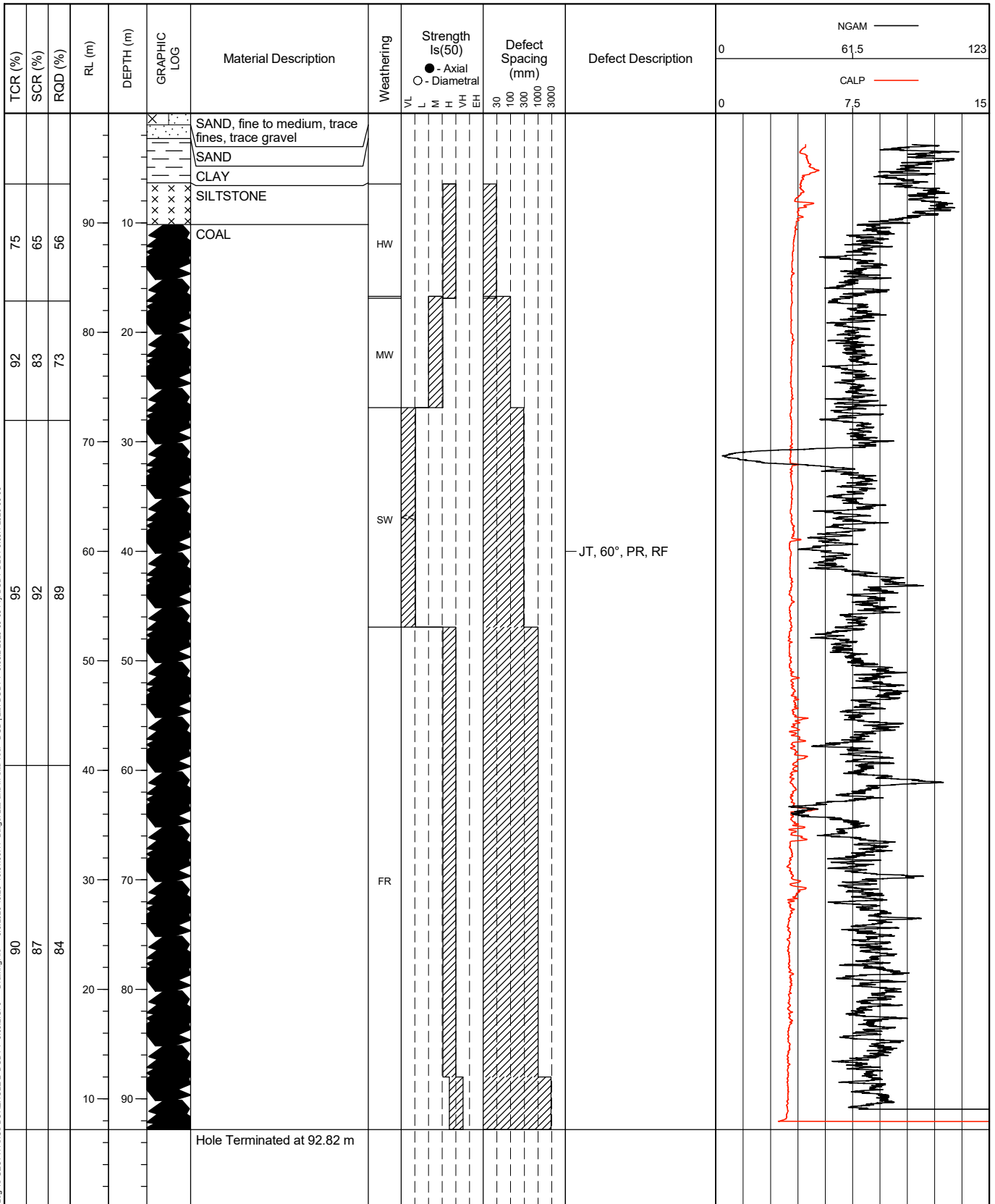
Final Depth (m) 1.00

DGDTP-5.032.LIB.GLB.Lib IS DCP WITH TEXT AND PLOT DGDTP-5.032.GPJ <-DrawingFile> 99/2020 1628 10.01.00.11 Datgel Lib and In Situ Tool - DGD Lib DGDTP-5.032.2020-09-08 Pj; DGDTP-01 ST 5.031 2020-09-05

RIG : Drill Rig	CHECKED BY : CB	REMARK
INCLINATION : -90°	CHECKED DATE : 13/11/2009	General remark about V-In Situ 2
AZIMUTH :	APPROVED BY : AB	
HOLE DIA. : 105/95 mm	APPROVED DATE : 14/1/2010	

CLIENT : Datgel
 CONTRACTOR : Contractor 1
 PROJECT : Construction Project
 LOCATION : Somewhere, World
 PROJECT No. : 5.03.1

POSITION :
 EASTING : 263133.5 m
 NORTHING : 6266070.0 m
 COORD. SYS. : MGA2020 Zone 56
 GROUND RL : 100.00 m AHD

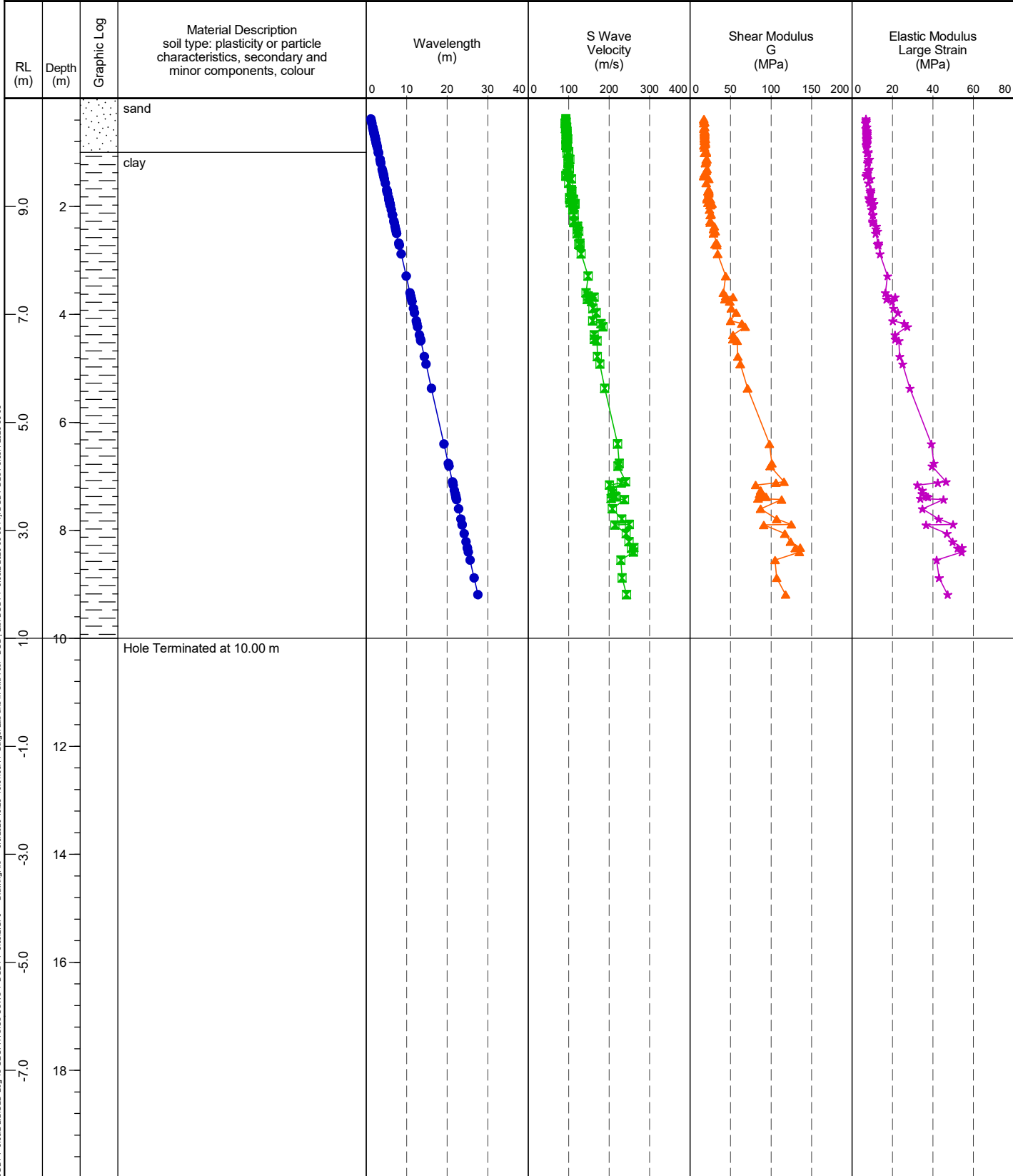


CSWS Log

Project No.: 5.03.1

Client: Datgel	Commenced: 1/5/2015
Project Name: Construction Project	Completed: 2/5/2015
Hole Location: Somewhere, World	Logged By: LB
Hole Position: 262878.7 m E 6266015.6 m N MGA2020 Zone 56	Checked By:




Instrument ID:	Geophone Distance: 1 m	RL Surface: 11.00 m
Bulk Density: 2 Mg/m ³	Ratio of V_r to V_s : 0.9195	Datum: AHD Operator:



DGDTP 5.032 LIB.GLB Log IS GEOPHYSICS CSWS 1 DGDTP 5.03.2.GPJ -> DrawingFile -> 9/9/2020 16:29 10.01.0011 Datgel Lab and In Situ Tool - DGD | Lib: DGDTP 5.032 2020-09-08 Proj: DGDTP-DLST 5.03.1 2020-09-05

Hole ID **V-BH AS Short**

CLIENT : Datgel	POSITION : A	DATE : 1/7/2008 -
CONTRACTOR : BWME	EASTING : 262536.6 m	5/7/2008
PROJECT : Construction Project	NORTHING : 6266347.4 m	OPERATOR : EFG
LOCATION : Somewhere, World	COORD. SYS. : MGA2020 Zone 56	LOGGED BY : PB
PROJECT No. : 5.03.1	GROUND RL : 25.25 m AHD	HOLE DIA. :

Elevation (m)	Depth (m)	Graphic Log	Description	SAMPLE OR FIELD TEST	Remarks
25.0			TOPSOIL Clayey SAND trace gravel: fine to medium grained, brown; organic matter; soft; wet.		
			Sandy CLAY trace sand trace gravel: medium plasticity, yellow and brown; pockets of yellow sand; very stiff to hard; moist.	PP 0.35 m =200 - 300 kPa 01A D 0.45-0.60 m PID 0.45 m 100 ppm PP 0.60 m =350 kPa PP 0.85 m >450 kPa SPT 1.00-1.27 m 12,18/115mm HB N=18/115mm	
24.0	1.0				
23.0	2.0			PID 2.00 m 50 ppm	Hydrocarbon
22.0	3.0				
21.0	4.0				
20.0	5.0		SANDSTONE: fine to medium grained, off white and dark orange.		
			Hole Terminated at 5.50 m Refusal		
19.0	6.0				
18.0	7.0				

DGDTP-5.032.LIB.GLB.Log IS HAND AUGER 1 DGDTP-5.032.GPJ <-DrawingFile> 9/9/2020 16:29 10.01.00.11 Datgel Lab and In Situ Test - DGD [Lib: DGDTP-5.032 2020-09-08 Proj: DGDTP-CLUST 5.03.1 2020-09-05]

General Remarks:
A Remark

PROJECT Construction Project Somewhere, World		ROCK CORE BIT T2-101 & T-76	
METHOD Rotary cored	CO-ORDINATES	HOLE DIA. 0.00m to 2.50m 200mm 2.50m to 5.50m 200mm 5.50m to 7.50m 200mm 7.50m to 9.50m 200mm	
Rig & No.		GROUND-LEVEL 16.23 m AHD	
FLUSHING MEDIUM Drilling Mud/Water	ORIENTATION VERTICAL		

Drilling Progress	Casing depth/size	Water level/ time/ date	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Zone	Description
1/7/2012	168mm							=95 kN/m ² Rem >40 kN/m ² 75mm dia.	P/S 1	+16.13	0.10	[Cross-hatch]			CONCRETE slab. Brown, silty fine to coarse SAND, with angular cobbles and coarse gravel sized concrete & red brick. (FILL)
1/7/2012	2.50								2	+14.73	1.50	[Dotted]	RS		Extremely weak to very weak, brownish pink & brown, mottled white & black, completely decomposed coarse grained GRANITE. (Silty, fine to coarse SAND with rock fragments of 1.5m to 2.5m)
1/8/2012	168mm		100					5,11,15 N=26	4		2.50	[Dotted]	RS		3.80 thin clay lens
1/8/2012	140mm								6		3.50	[Dotted]	RS		
								k = 3.20x10 ⁻⁴ m/s	7		4.00	[Dotted]	RS		5.00 - 6.54 grades less decomposed and stronger
	5.50							9,13,17 N=30	9		5.00	[Dotted]	RS		
	140mm								10		5.60	[Dotted]	RS		
	114mm	4.5m at 19:00									6.00	[Dotted]	RS		
1/8/2012										+9.68	6.55	[Dotted]	RS		Strong, greyish pink, mottled white & black, slightly decomposed medium grained GRANITE cores tone with some moderately decomposed granite. Weathered seams composed of extremely weak to weak brownish pink & pinkish dark brown completely to highly decomposed coarse grained GRANITE. (Silty fine to coarse SAND with some rock fragments.) (CORESTONES)
1/8/2012	7.50								T2-101		7.45	[Dotted]	RS		
	114mm	8m at 18:30									7.47	[Dotted]	RS		
1/8/2012											7.90	[Dotted]	RS		4
1/10/2012	8.50	7.22m at 08:00							T-76		8.50	[Dotted]	RS		
	89mm										8.50	[Dotted]	RS		
		5.34m at 13:00									9.50	[Dotted]	RS		Hole Terminated at 9.50 m

<ul style="list-style-type: none"> ● Small Disturbed Sample ▲ Large Disturbed Sample ▬ SPT Liner Sample ■ U76 Undisturbed Sample ■ U100 Undisturbed Sample ▨ Mazier Sample (70mm) ▩ Piston Sample ▲ Water Sample ▼ Water Level ↓ Standard Penetration Test ⬇ Permeability Test ⬆ Piezometer Tip ⊕ Observation Well Tip ∠ In-situ Vane Shear Test 	<p>LOGGED _____</p> <p>DATE _____</p> <p>CHECKED _____</p> <p>DATE _____</p>	<p>REMARKS</p> <p>N.A. = Not Applicable</p> <p>Constant head permeability test carried out at 4.50m to 6.00m</p>
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DGD1-P-5.03.2-1IB-6LE Log IS HK BOREHOLE 1 DGD1-P-5.03.2-1IB-6LE Log IS HK BOREHOLE 1 DGD1-P-5.03.2-1IB-6LE Log IS HK BOREHOLE 1 DGD1-P-5.03.2-1IB-6LE Log IS HK BOREHOLE 1 DGD1-P-5.03.2-1IB-6LE Log IS HK BOREHOLE 1

DRILLHOLE RECORD

HOLE No. **V-BH HK**

CONTRACT No.: 123

SHEET: 1 of 1

PROJECT **Construction Project
Somewhere, World**

METHOD **Rotary cored**

CO-ORDINATES

LOGGED DATE

CHECKED DATE

Rig & No.

DATE from: 1/7/2012 to 1/10/2012

FLUSHING MEDIUM **Drilling Mud/Water**

ORIENTATION **VERTICAL**

GROUND-LEVEL **16.23** m AHD

Drilling Progress	Casing depth/size	Water Level (m)/ Shift start/end	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Depth (m)	Legend	USCS	Description	Unit Weight (kN/m ³)			Undrained Shear Strength (kPa)	
													γ	Moisture Content			
													PL	PI	LL		
01.07.12	168mm						=95 kN/m ² Rem >40 kN/m ² 75mm dia.		0.10			CONCRETE slab.					
			40					P/S 1	0.75			Brown, silty fine to coarse SAND, with angular cobbles and coarse gravel sized concrete & red brick. (FILL)					
								2	1.50			Extremely weak to very weak, brownish pink & brown, mottled white & black, completely decomposed coarse grained GRANITE. (Silty, fine to coarse SAND with rock fragments of 1.5m to 2.5m)					
1/7/2012	2.50 168mm						(2, 3, 4, 7, 7, 8) N = 26		2.50								
01.08.12	140mm							4	2.95								
								6	3.50								
							k = 3.20x10 ⁻⁴ m/s		3.75			3.80 thin clay lens					
								7	4.00								
	5.50 140mm						(4, 5, 6, 7, 8, 9) N = 30		5.00			5.00 - 6.54 grades less decomposed and stronger					
	140mm 114mm							9	5.45								
		4.5m at 19:00						10	5.60								
1/8/2012									6.00								
01.08.12			100	100	100				6.55			Strong, greyish pink, mottled white & black, slightly decomposed medium grained GRANITE cores tone with some moderately decomposed granite. Weathered seams composed of extremely weak to weak brownish pink & pinkish dark brown completely to highly decomposed coarse grained GRANITE. (Silty fine to coarse SAND with some rock fragments.) (CORESTONES)					
	7.50 114mm	8m at 18:30					(200)		7.45								
	89mm								7.47								
1/8/2012		7.22m at 08:00							7.90								
01.10.12	8.50 89mm		100	100	100				8.50								
		5.34m at 13:00							9.50								
1/10/2012									9.50			Hole Terminated at 9.50 m					

- Small Disturbed Sample
- ▲ Water Sample
- ↑ Large Disturbed Sample
- ▼ Water Level
- ⊕ SPT Liner Sample
- ⊖ Standard Penetration Test
- U76/U100 Undisturbed Sample
- ⊕ Permeability Test
- Shelby Tube Undisturbed Sample
- ⊕ Piezometer Tip
- ⊕ Mazier Sample (70mm)
- ⊕ Observation Well Tip
- ⊕ Piston Sample
- ⊕ In-situ Vane Shear Test

- KEY**
- ▲ Torvane
 - ▼ Pocket Penetrometer
 - ⊕ Lab Vane
 - ⊕ Lab Vane Remoulded
 - ⊕ CIU Triaxial
 - ⊕ Est. from CPT, N₆₀=15
 - ⊕ Normally Consolidated Profile
 - UU Triaxial Onshore
 - UU Triaxial Offshore
 - UU Remoulded
 - ◇ In Situ Vane
 - ◇ In Situ Vane Remoulded
 - ⊕ Est. from CPT, N₆₀=20
 - Design Profile

REMARKS
 N.A. = Not Applicable
 Constant head permeability test carried out at 4.50m to 6.00m

DGD1-P-003.2.LIB.GLB Log: IS HK BOREHOLE.2 DGD1-P-5.03.2.GPJ <<DrawingFile>> 89/200 1629 10.01.00.11 Datgel Lab and In Situ Tool - DGD1-P-5.03.2.2020-06-08.Plt DGD1-DLST 5.03.1 2020-09-05

CLIENT : Datgel
 ENGINEER : Engineer 1
 PROJECT : Construction Project
 LOCATION : Somewhere, World
 PROJECT No. : 5.03.1



AREA : A1.10 RIG : Edson 3000
 EASTING : 263083.4 m LOGGED BY : ABC
 NORTHING : 6266073.7 m START DATE : 18/12/2009
 COORD. SYS. : MGA2020 Zone 56 END DATE : 18/12/2009
 ELEVATION : 24.15 m AHD CHECKED BY : CB
 INCLINATION : -90° CHECKED DATE: 21/12/2009

Borehole: V-BH AS

SHEET : 1 OF 2
 STATUS : 0

Depth (m)	Elevation (m AHD)	Samples or Field Test	Depth RL	Graphic Log	Soil / Rock Material Description <small>Soil: TYPE, colour, grain size, plasticity, moisture, consistency, type. Rock: TYPE, colour, weathering, grain size, strength, fracturing, type.</small>	Inferred Stratigraphy	SPT				Rock TCR (%)	Rock RQD (%)	Rock Strength Estimated UCS in MPa	Rock Fracture Frequency (fractures / m)	Rock Discontinuity Description
							Seating Drive	Blows 1	Blows 2	N Value					
24		0.50m U63-1	24.15		FILL Sandy Gravelly BIOCLASTIC CLAY trace peat: clay is silica, low and medium plasticity, pale brown; gravel fine to coarse angular; sand fine and to coarse grained; scatter of cobbles; hard; dry.	FILL									
23		1.35m SPTLS-1	23.10		FILL Possibly ALLUVIAL SOIL Silty CLAY: medium plasticity, brown and dark brown; scatter of fine to coarse grained sand; hard; dry.	FILL ALLUVIAL SOIL	6	4	2 HB	6					1.55: PP In-situ >=400 kPa
22		1.55m In-situ VS R<=89kPa	21.85		Clayey SAND: fine and medium grained, brown and pale brown with some grey; slight and low plasticity; very loose; wet.	ALLUVIAL SOIL									
21		3.30m	21.00		Clayey SAND: pale brown and grey with some red-brown; with some low plasticity sandy clay layers; soft; wet.		0	3	5	8					3.00: A depth related remark
20		4.20m U63-2 =5 MPa	20.15		Sandy CLAY: low plasticity, pale grey; sand fine and medium grained; soft; wet.										
19		4.65m	19.80		INTERBEDDED Clayey SAND AND CALCAREOUS SAND: sand is fine to coarse grained, low plasticity, pale grey pale brown and pale red-brown; non and low plasticity layers, variable fine to coarse grained sand, scatter of gravel; sand is fine to medium grained, uniform, angular, medium dense; wet.										
18		5.70m SPTLS	18.55		Silty CLAY: medium plasticity, dark grey; organic; soft and firm; wet.	RESIDUAL SOIL becoming EXTREMELY WEATHERED MATERIAL	3	30	2	REF					5.90: PP In-situ >=400 kPa
17		6.02m	17.60		INTERBEDDED Sandy Silty CLAY AND CALCAREOUS SAND: clay is medium to high plasticity, dark brown and dark grey; sand fine to coarse grained; some organic material, scatter of gravel; sand is fine to medium grained, uniform, angular, dark brown blue; soft to firm; Moist, dry of plastic limit to wet.	EXTREMELY WEATHERED MATERIAL									
		Is(50) d = 2.5 MPa	6.45		SANDY SILTSTONE META: fine grained, dark grey; Moist, dry of plastic limit to wet.						100	86			JT, 0 - 90°, Fe Clay, PR, RF, Also IR & S WITH CLAY POCKETS
		Is(50) a = 0.8 MPa	6.55		SANDY SILTSTONE META AND META SILTSTONE: fine grained, dark grey with red brown and grey-brown, 45deg - 70deg bedding. Scatter of Fe sealed joints at 40deg - 90deg., Fine grained sand.; residual soil to slightly weathered.						100	89		HB JT, 30 - 60°, Fe, PR, RF, Joints also IR JT, 5°, Fe Clay, PR, RF JT, 90°, Fe, PR, S, H spaced	

DGDTP-5.032.LIB.GLB_Log IS ID HYBRID BOREHOLE-1_DGDTP-5.032.GPJ <<DrawingFile>> 9/9/2020 16:29 10:01:00.11 DatgelLab and H. Sulu Tool - DGD | Lib: DGDTP-5.032.2020-09-08 P1; DGDTP-DLST5.03.1.2020-09-08

Drilling				Sampling		Field Material Description						Defect Information					
WATER	DEPTH (metres)	ELEVATION (metres) AHD	DEPTH RL	TCR	RQD (SCR)	SAMPLE OR FIELD TEST	RECOVERED GRAPHIC LOG	USCS SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	SPT N Value	WEATHERING	GSI	INFERRED STRENGTH Is(50) MPa	DEFECT DESCRIPTION & Additional Observations	FRACTURE FREQUENCY (Defects per unit metre length)
												10 20 30 40			VL 0.1 L 0.3 M 0.5 H 1.0 BH 1.5		
	0	24.00	24.00			1 U63 0.50-0.90 m		CL- CI / SP	FILL Sandy Gravelly BIOLASTIC CLAY trace peat: clay is silica, low and medium plasticity, pale brown; gravel fine to coarse angular; sand fine and to coarse grained; scatter of cobbles; hard; dry.								
	1.05	23.10	23.10			1 SPT 1.35-1.80 m RW/100mm,6 50mm,4,2 HB N=6 PP 1.55 m >=400 kPa FV 1.55 m s<=89 kPa		CI	FILL Possibly ALLUVIAL SOIL Silty CLAY: medium plasticity, brown and dark brown; scatter of fine to coarse grained sand; hard; dry.	D	H						
	2.30	21.85	21.85			2 SPT 2.85-3.30 m 0,3,5 N=8		SC	Clayey SAND: fine and medium grained, brown and pale brown with some grey; slight and low plasticity; very loose; wet.	VL							
	3.15	21.00	21.00					CL	Clayey SAND: pale brown and grey with some red-brown; with some low plasticity sandy clay layers; soft; wet.		S						
	4.00	20.15	20.15			2 U63 4.20-4.65 m		CL	Sandy CLAY: low plasticity, pale grey; sand fine and medium grained; soft; wet.	W							
	4.35	19.80	19.80					SC / SP	INTERBEDDED Clayey SAND AND CALCAREOUS SAND: sand is fine to coarse grained, low plasticity, pale grey pale brown and pale red-brown; non and low plasticity layers, variable fine to coarse grained sand, scatter of gravel; sand is fine to medium grained, uniform, angular; medium dense; wet.		MD						
	5.45	18.55	18.55			SPT 5.70-6.02 m 3,30,2/20mm N=32/170mm PP 5.90 m >=400 kPa		CI	Silty CLAY: medium plasticity, dark grey; organic; soft and firm; wet.		S						
	6.35	17.60	17.60			1 C52 6.45-7.15 m		CI- CI- CH / SP	INTERBEDDED Sandy Silty CLAY AND CALCAREOUS SAND: clay is medium to high plasticity, dark brown and dark grey; sand fine to coarse grained; some organic material, scatter of gravel; sand is fine to medium grained, uniform, angular, dark brown blue; soft to firm; Moist, dry of plastic limit to wet.	w < PL to W	F						
					100	86 (86)			SANDY SILTSTONE META: fine grained, dark grey; Moist, dry of plastic limit to wet.								
					100	89 (89)			SANDY SILTSTONE META AND META SILTSTONE: fine grained, dark grey with red brown and grey-brown, 45deg - 70deg bedding. Scatter of Fe sealed joints at 40deg - 90deg. Fine grained sand..								
	8.00	16.15	16.15			C52 8.05-9.55 m			SILTSTONE AND SANDY SILTSTONE META: fine grained, grey and dark grey. Some disturbed bedding. Occasional meta-silty sandstone interbedding. Scatter of MS sealed sub-vertical joints. Evidence of iron pyrites in closed joints..								
					100	100 (100)											
					97	83 (92)			5 C52 9.55-10.15 m								
	10.15	14.00	14.00						Hole Terminated at 10.15 m Target depth A general remark								
	12																
	14																
	16																
	18																
	20																

3.00: A depth related remark

6.64-6.93: JT, 0 - 90°, Fe Clay, PR, RF, Also IR & S WITH CLAY POCKETS
 7.00-7.12: HB
 7.12-7.34: JT, 30 - 60°, Fe, PR, RF, Joints also IR
 7.34-7.38: JT, 5°, Fe Clay, PR, RF
 7.38-7.43: JT, 90°, Fe, PR, S, H spaced
 7.43-7.67: JT, 55°, Clay, PR, S
 7.67-7.70: JT, 5°, Clay, PR, RF
 7.70-7.75: JT, 50°, Clay, PR, SL
 7.75-7.84: DB
 7.84-7.88: JT, 5°, PR, S
 7.88-7.93: JT, 60°, SL
 7.93-7.95: JT, 10°, Clay, PR, S
 7.95-8.42: JT, 55°, Clay, PR, SL
 8.35: Difficult Drilling
 8.42-8.59: JT, 5°, MS, PR, S
 8.59-8.66: JT, 20°, CA, IR, RF
 8.66-8.71: DB
 8.71-8.78: DB
 8.78-8.91: JT, 45°, MS, PR, S
 8.91-9.00: JT, 40°, MS, IR, RF, & DB
 9.00-9.10: HB
 9.10-9.33: HB
 9.33-9.50: JT, 55°, Clay, PR, S, & DBs
 9.50-9.55: JT, 75°, Clay, PR, SL
 9.55-9.57: DB
 9.57-10.15: JT, 10 - 90°, CN, PR, RF, TRACE CLAY ALSO IR, S & SL

DDDT-P-5.03.1-B-GLB Log IS ID INFRID BOREHOLE 2 DDDT-P-5.03.1-GR1 <<Drawing>> 9/2/2010 16:30 10/07/09 11 Datgel Lab and In Situ Tool - DGD Lab - DGD Lab - DDDT-P-5.03.1-2020-08-08 P1 DDDT-DLST 5.03.1 2020-08-05

CLIENT : Datgel	POSITION : Borrow ABC	RIG :
CONTRACTOR : Contractor 1	EASTING : 263076.4 m	STATUS :
PROJECT : Construction Project	NORTHING : 6266120.3 m	LOGGED BY : ABC
LOCATION : Somewhere, World	COORD. SYS. : MGA2020 Zone 56	DRILL DATE : 31/7/2008 -
PROJECT No. : 5.03.1	GROUND RL : 25.55 m AHD	1/8/2008

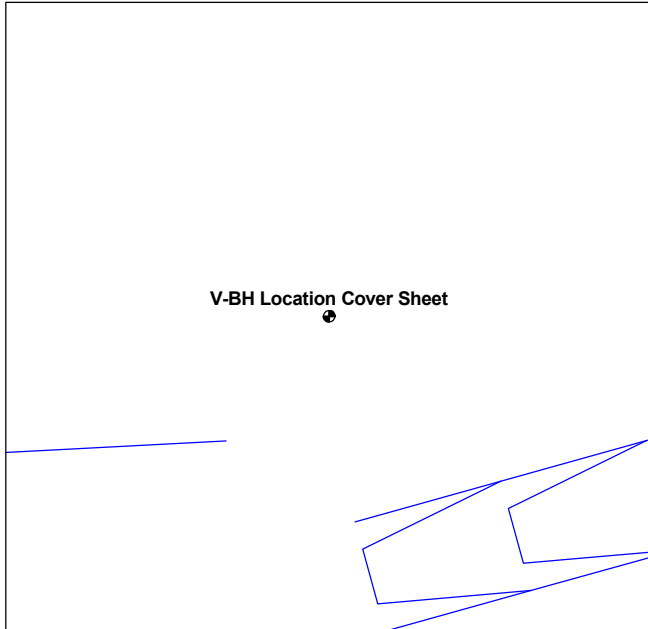


Figure 1. Location (Scale 1:100 @ A4)

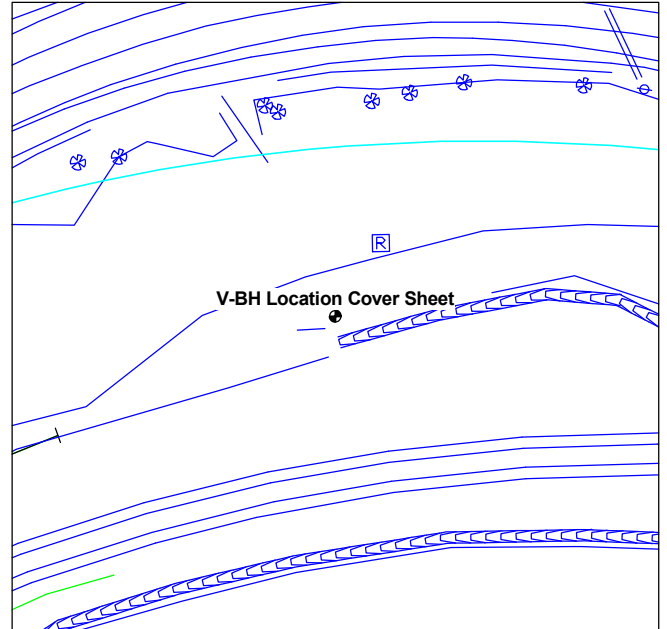


Figure 2. Location (Scale 1:1000 @ A4)

Figure 3.

Figure 4.

General Remarks

Installed standpipe piezometer at 15.50m

Groundwater Observations

Struck (m)	Date (d/m/yyyy)	Time (HH:mm)	Standing (m)	Observations
3.00	2/2/2008	09:00	2.50	
4.00	2/2/2008	10:00	2.50	

Date (d/m/yyyy)	Time (HH:mm)	Borehole Depth (m)	Casing Depth (m)	Water Level (m)
11/3/2018	08:00	0.00	0.00	DRY
11/3/2018	17:00	2.00	1.00	1.80
12/3/2018	08:00	2.00	1.00	1.75
12/3/2018	15:00	10.15	8.00	FULL

Depth (m)	Method & Casing	Reduced Level (m)	Description	Graphic Log	British Soil Classification	Legend	Type & No.	Depth (m)	Recovery (%)	Sample & Test	TCR (%)	ROD (%)	Remarks
0.00	CASING	23.10	Loose brown angular fine to coarse SAND		SW		M100-1	0.00-0.80	100				
1.35		21.85	Brown and dark brown fine and medium CLAY		CI		D-1 SPTLS-1	1.35-1.80	89	RW/40mm,6/35mm,5,4,3,2,1 N=10 V s _v >90 kPa s _v <=60 kPa s _v = 1.5			MC=11.8%
2.50	RR	21.00	Brown and pale brown with some grey SAND		SP		Ps50-1	2.50-2.90	100				A depth related remark
2.90		20.15	Pale brown and grey with some red-brown SAND		SP								
4.20	NMLC	19.80	Pale grey CLAY		CI		UD50-1	4.20-4.65	67				MC=20.0% p _w =1.34Mg/m ³ c'=5 kPa φ=15° MC=25.0% MC=24.0% MC=23.0% MC=22.0%
4.65		18.70	Pale grey pale brown and pale red-brown fine to coarse SAND		SP					67	V s _v =60 kPa s _v =20 kPa s _v = 3.0		
5.70		18.55	Grey CLAY		CL		SPTLS-2	5.70-5.98	98				
5.98		17.80	Dark brown and dark grey CLAY		CH		D-2	5.70-6.02	84		3,3,30,70/50mm N=100/125mm		
6.45		17.70	Slightly weathered moderately weak dark grey sandy SILTSTONE				C52-1	6.45-7.15	100		100	86	
7.15			Dark grey with red brown and grey-brown sandy SILTSTONE 45deg - 70deg bedding. Scatter of Fe sealed joints at 40deg - 90deg.				C52-2	7.15-8.05	100		100	89	
8.05		16.15	Grey and dark grey SILTSTONE Some disturbed bedding. Occasional meta-silty sandstone interbedding. Scatter of MS sealed sub-vertical joints. Evidence of iron pyrites in closed joints.				C52-3	8.05-9.55	100		100	100	MC=21.0% Difficult Drilling
9.55							C52-4	9.55-10.15	100		100	83	

Boring Progress and Water Observations

Date	Time	Hole Depth (m)	Casing Depth (m)	Water Depth (m)
18/12/2009	00.00	3.20	2.00	2.3
18/12/2009	12.00	5.00	4.00	3

Legend

- Sample
- Permeability / Packer Test (PKT)
- Pressuremeter Test (PRM)
- Core Run
- Vane Shear Test (VST)
- SPT N Value
- Attempt TW/P/MZ/U
- P - Piston Sample
- TW - Thin Wall Push
- M - Mazier
- U - Thick Wall
- C - Core Run
- SPTLS - SPT Liner
- W - Water
- PZS - Cassagrande Piezometer
- WSP - Water Standpipe



Project: Construction Project
 Location: Somewhere, World
 Client: Datgel
 Engineer: Engineer 1
 Contractor: Contractor 1
 Project No.: 5.03.1

REPORT OF BOREHOLE: V-BH BS MY

Coord's: 263069.8 m E 6266062.7 m N MGA2020 Zone 56 Sheet No.: 2 of 2
 RL: 24.15 m AHD
 Date: 18/12/2009 - 18/12/2009
 Rig: Edson 3000
 Drilled By: OR
 Logged By: ABC
 Checked By: CB

Depth (m)	Method & Casing	Reduced Level (m)	Description	Graphic Log	British Soil Classification	Legend	Type & No.	Depth (m)	Recovery (%)	Sample & Test	TCR (%)	ROD (%)	Remarks
	▼	14.00	Hole Terminated at 10.15 m Target depth A general remark	xxxx	CM		C52-4		100		100	83	Difficult Drilling
11.0													
12.0													
13.0													
14.0													
15.0													
16.0													
17.0													
18.0													
19.0													

DGD1-P-5.03.2.LIB.GLB.Log IS MY BOREHOLE 1 DGD1-P-5.03.2.GPJ <DrawingFile> 9/9/2020 16:30 10.01.00.11 Datgel Lab and In Situ Test - DGD1 Lib DGD1-P-5.03.2.2020-09-08 Ph: DGD1-D01-ST-5.03.1.2020-09-05

Boring Progress and Water Observations

Date	Time	Hole Depth (m)	Casing Depth (m)	Water Depth (m)

Legend

- Sample
- Pressuremeter Test (PRM)
- Core Run
- Vane Shear Test (VST)
- Permeability / Packer Test (PKT)
- SPT N Value
- Attempt TW/P/MZ/U
- P - Piston Sample
- TW - Thin Wall Push
- M - Mazier Thick Wall
- U - Open Drive
- C - Core Run
- SPTLS - SPT Liner
- W - Water
- PZS - Cassagrande Piezometer
- WSP - Water Standpipe

PROJECT: Construction Project
LOCATION: Somewhere, World
CLIENT: Datgel
ENGINEER: Datgel
CONTRACTOR: Datgel
PROJECT NO: 5.03.1

DRILLING RIG: Edson 3000
DRILLING METHOD: Borehole
DRILLED BY: OR

LOGGED BY: ABC
CHECKED BY: CB
BOREHOLE DIA: 90mm

BOREHOLE: V-BH BS MY
NORTHING: 6266062.7 m
EASTING: 263069.8 m
DATE STARTED: 18/12/2009
DATE COMPLETED: 18/12/2009
REDUCED LEVEL: 24.15 m
GWL: 3.00 m dated 27/3/2016

Scale	Depth (m) (Thickness)	Description	Graphic Log	Sample No	Legend	Sample Depth (m) (Top - Bottom)	Recovery	SPT Blow Count						SPT N Value blows/mm	Rock		● SPT N blows / 300 mm					
								Penetration, P (mm)							TCR (%)	RQD (%)	X Undrained Shear Strength kPa					
								75	75	75	75	75	75				20	40	60	80		
1	(1.05)	Loose brown angular fine to coarse SAND		M-1	▲	0.00 - 0.80	800 / 800															
2	(1.25)	Brown and dark brown fine and medium CLAY		P-1 D-1	▨	1.35 - 1.80	400 / 450	6	5	4	3	2	1	10/300								
3	(0.85)	Brown and pale brown with some grey SAND		Ps-1	▨	2.50 - 2.90	400 / 400															
4	(0.85)	Pale brown and grey with some red-brown SAND		Pr-1	▨																	
5	(1.10)	Pale grey CLAY		UD-1	▲	4.20 - 4.65	300 / 450															
6	(0.75)	Grey CLAY		P-3	▨	5.70 - 5.98	270 / 275	3	3	30	70			100/125								
7	(1.55)	Slightly weathered moderately weak dark grey sandy SILTSTONE		C-1	▨	6.45 - 7.15	320 / 700								100	86						
8	(1.55)	Dark grey with red brown and grey-brown sandy SILTSTONE 45deg - 70deg bedding. Scatter of Fe sealed joints at 40deg - 90deg.		C-2	▨	7.15 - 8.05	700 / 900								100	89						
9	(2.15)	Grey and dark grey SILTSTONE Some disturbed bedding. Occasional meta-silty sandstone interbedding. Scatter of MS sealed sub-vertical joints. Evidence of iron pyrites in closed joints.		C-3	▨	8.05 - 9.55	1500 / 1500								100	100						
10	10.15	C-4	▨	9.55 - 10.15	600 / 600										100	83						
11		Hole Terminated at 10.15 m Target depth																				
12																						
13																						
14																						
15																						
16																						
17																						
18																						
19																						
20																						

Date (d/m/yyyy)	Time (HH:mm)	Borehole Depth (m)	Casing Depth (m)	Water Level (m)
18/12/2009	00:00	3.20	2.00	2.30
18/12/2009	12:00	5.00	4.00	3.00

DGD-T-P-5.03.2-LIB-GLB_Log IS MY BOREHOLE 2 DGD-T-P-5.03.2-GP1 <DrawingFile> 9/9/2020 16:30 10.01.00.11 Datgel Lab and in Situ Test - DGD Lib DGD-T-P-5.03.2 2020-09-08



LEGEND

▨	: Wash Boring	▲	: Water Level (WL)
▨	: Disturbed Sample (D)	P	: Standard Penetration Test
▨	: Thin Wall Tube Sample (UD)	TCR	: Total Core Recovery
▨	: Piston Sample (Ps)	RQD	: Rock Quality Designation
▨	: Mazier Sample (M)	V	: Vane Shear Test
▨	: Rock Core Sample (C)	Pm	: Permeability Test
		Pr	: Pressuremeter Test

REMARKS:
A general remark

Cohesive Soil (N)	0	2	4	8	15	30	50
	Very Soft	Soft	Firm	Stiff	Very Stiff	Hard	
Non Cohesive Soil (N)	0	4	10	30	50		
	Very Loose	Loose	Medium Dense	Dense	Very Dense		

PROJECT: Construction Project				BOREHOLE: V-BH BS MY			
CLIENT: Datgel				SHEET: 1 of 2			
BOREHOLE DIA: 90 mm			REDUCED LEVEL: 24.15 m AHD			NORTHING: 6266062.7 m	
DRILLING RIG: Edson 3000			PROJECT NO: 5.03.1			EASTING: 263069.8 m MGA2020 Zone 56	
TYPE OF BORING: Borehole				SUPERVISOR: ABC		DATE: 18/12/2009	

Scale (m)	Depth (m) (Thickness)	Description	Graphic Log	Sample No Legend	Sample Depth (m) (Top - Bottom)	Recovery	SPT Blow Count					SPT N Value blows/mm	Rock		● SPT N blows / 300 mm							
							Penetration, P (mm)						TCR (%)	RQD (%)	X Undrained Shear Strength kPa							
							75	75	75	75	75				10	20	30	40				
1	1.05	Loose brown angular fine to coarse SAND	[Pattern]	M-1	0.00 - 0.80	800 / 800																
2	1.25	Brown and dark brown fine and medium CLAY	[Pattern]	P-1 D-1 SPTLS.	1.35 - 1.80	400 / 450	6	5	4	3	2	1	10/300									
3	2.30	Brown and pale brown with some grey SAND	[Pattern]	Ps-1	2.50 - 2.90	400 / 400																
4	3.15	Pale brown and grey with some red-brown SAND	[Pattern]	Pm-1																		
4	4.00	Pale grey CLAY	[Pattern]	Pr-1																		
5	4.35	Pale grey pale brown and pale red-brown fine to coarse SAND	[Pattern]	UD-1	4.20 - 4.65	300 / 450																
5	5.45	Grey CLAY	[Pattern]																			
6	5.60	Dark brown and dark grey CLAY	[Pattern]	P-3 D-2 SPTLS.	5.70 - 5.98 5.70 - 6.02	270 / 275 270 / 320	3	3	30	70		100/125										
7	6.35	Slightly weathered moderately weak dark grey sandy SILTSTONE	[Pattern]	C-1	6.45 - 7.15	700 / 700							100	86								
7	8.35	Dark grey with red brown and grey-brown sandy SILTSTONE 45deg - 70deg bedding. Scatter of Fe sealed joints at 40deg - 90deg.	[Pattern]	C-2	7.15 - 8.05	900 / 900							100	89								
8	8.00	Grey and dark grey SILTSTONE Some disturbed bedding. Occasional meta-silty sandstone interbedding. Scatter of MS sealed sub-vertical joints. Evidence of iron pyrites in closed joints.	[Pattern]	C-3	8.05 - 9.55	1500 / 1500							100	100								
9	(2.15)		[Pattern]	C-4	9.55 - 10.15	600 / 600							100	83								

DGDTP-5.032.LIB.GLB_Log IS MY BOREHOLE 3 DGDTP-5.032.GPJ <DrawingFile> 9/8/2020 16:30 10.01.00.11 Datgel Lab and in Situ Test - DGDTP-5.032.2020-09-08 P1: DGDTP-5.03.1 2020-09-05

BORING PROGRESS AND WATER OBSERVATIONS					STRENGTH SCALE				LEGEND				
Date	Time	Hole Depth (m)	Casing Depth (m)	Water Depth (m)	Cohesive Soils		Non-Cohesive		LEGEND				
18/12/2009	00.00	3.20	2.00	2.30	0 - 2	Very soft	0 - 4	Very loose	[Symbol]	TCR	[Symbol]	RQD	
18/12/2009	12.00	5.00	4.00	3.00	2 - 4	Soft	4 - 10	Loose	[Symbol]	V	[Symbol]	Pm	
					4 - 8	Firm	10 - 30	Medium dense	[Symbol]	Pr	[Symbol]	P	
					8 - 15	Stiff	30 - 50	Dense	[Symbol]				
					15 - 30	Very stiff	>50	Very dense					
					>30	Hard							

PROJECT: Construction Project		BOREHOLE: V-BH BS MY
CLIENT: Datgel		SHEET: 2 of 2
BOREHOLE DIA: 90 mm	REDUCED LEVEL: 24.15 m AHD	NORTHING: 6266062.7 m
DRILLING RIG: Edson 3000	PROJECT NO: 5.03.1	EASTING: 263069.8 m MGA2020 Zone 56
TYPE OF BORING: Borehole	SUPERVISOR: ABC	DATE: 18/12/2009

Scale (m)	Depth (m) (Thickness)	Description	Graphic Log	Sample No	Legend	Sample Depth (m) (Top - Bottom)	Recovery	SPT Blow Count						Rock		● SPT N blows / 300 mm				
								Penetration, P (mm)						SPT N Value blows/mm	TCR (%)	RQD (%)	X Undrained Shear Strength kPa			
								75	75	75	75	75	75				10	20	30	40
	10.15	Hole Terminated at 10.15 m Target depth A general remark	x x x x	C-4	█	9.55 - 10.15								100	83					
11																				
12																				
13																				
14																				
15																				
16																				
17																				
18																				
19																				
20																				

DGD\P5.032\LIB\GLB_Log IS MY BOREHOLE 3 DGD\P5.032.GPJ <DrawingFile> 9/9/2020 16:30 10.01.00.11 Datgel Lab and in Situ Test - DGD\Lib\DGD\P5.032.2020-09-08 P1: DGD\LD\ST 5.03.1 2020-09-05

BORING PROGRESS AND WATER OBSERVATIONS					STRENGTH SCALE				LEGEND								
Date	Time	Hole Depth (m)	Casing Depth (m)	Water Depth (m)	Cohesive Soils		Non-Cohesive										
					0 - 2 Very soft	2 - 4 Soft	4 - 8 Firm	8 - 15 Stiff	15 - 30 Very stiff	>30 Hard	0 - 4 Very loose	4 - 10 Loose	10 - 30 Medium dense	30 - 50 Dense	>50 Very dense	□ : Wash Boring ▨ : Disturbed Sample (D) ⊠ : Thin Wall Tube Sample (UD) ⊗ : Piston Sample (Ps) ⊞ : Mazier Sample (M) ⊞ : Rock Core Sample (C) ≡ : Water Level (WL)	TCR : Total Core Recovery RQD : Rock Quality Designation V : Vane Shear Test Pm : Permeability Test Pr : Pressuremeter Test P : Standard Penetration Test



DATA SOLUTIONS

Geotechnics • Geoenvironment • Laboratory

BOREHOLE LOG

IDENTIFICATION

V-BH AS Short

CLIENT : Datgel CO-ORDINATES : 262536.6 m E 6266347.4 m N MGA2020 Zone 56
 PROJECT : Construction Project ORIENTATION : -90° ELEVATION : 25.25 m AHD
 PROJECT LOCATION : Somewhere, World BOREHOLE LOCATION : A

DEPTH (m)	DRILLING METHOD	DRILL RUN RECOVERY (%)	SAMPLE TYPE / ID	ANALYSIS	PID (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	GEOLOGICAL DESCRIPTION	STAINING/ ODOURS AND COMMENTS	GROUNDWATER	WELL CONSTRUCTION	DEPTH (m)
0.0			D 01A	Pb=0.1ppm	100		TOPSOIL Clayey SAND trace gravel: fine to medium grained, brown; organic matter; soft; wet. Sandy CLAY trace sand trace gravel: medium plasticity, yellow and brown; pockets of yellow sand; very stiff to hard; moist. Note: moisture content decreases with depth.	A				0.0
2.0	ADV	90			50		Note: strength increasing with depth.	B	Hydrocarbon	17/09/17 15:58		2.0
4.0												4.0
6.0							SANDSTONE: fine to medium grained, off white and dark orange.	C				6.0
10.0							Hole Terminated at 5.50 m Refusal					10.0

DGDTP-5.032.LIB.GLB.Log IS NZ BOREHOLE CONTAM 1 DGDTP-5.032.GPJ -DrawingFile-> 9/9/2020 16:30 10.01.00.11 Datgel Lab and in Situ Tool - DGD Lib - DGDTP-5.032.2020-09-08 Pjt: DGDTP-01-ST 5.03.1 2020-09-05

GENERAL COMMENTS A Remark	GROUNDWATER		DRILLER BWME - EFG DRILL RIG Edson 3000 STARTED 1/7/2008 FINISHED 5/7/2008	DATE LOGGED 4/7/2008
	DATE	READING (m bgl)		LOGGED BY PB
	17/9/2017	1.50		CHECKED BY CB
				PAGE: 1 OF 1

Job Number 5.03.1 BOREHOLE LOG V-BH NZ-1

PROJECT : Construction Project	GROUND LEVEL (RL) : 24.50 m AHD	SHEET : 1 OF 3
SITE : Somewhere, World	EASTING : 263086.4 m	SCALE : 1:63
START DATE : 1/9/2017	NORTHING : 6266130.3 m	DEPTH : 26 m
END DATE : 2/9/2017	COORD. SYS. : MGA2020 Zone 56	

HOLE PROGRESS DATE TIME WATER DEPTH	GRAPHIC LOG	Elevation (m)	Depth (m)	SOIL / ROCK DESCRIPTION	SAMPLE TYPE GRAPHIC	SAMPLE NO. AND TYPE	DEPTH (m) FROM-TO	CASING DEPTH (m)	TEST TYPE AND VALUE	TCR (%)	SCR (%)	RQD (%)	DEFECT SPACING MAX/AVG/MIN (mm)	MOISTURE CONDITION	CONSISTENCY / RELATIVE DENSITY	WATER LEVEL	PIEZOMETER DETAILS
11/3/2012 08:00 DRY		24.0	2.0	Silty CLAY, with minor organics; brown, homogeneous. Firm, moist, highly plastic. Organics are minor rootlets. Silty CLAY, with minor organics; brown, yellowish brown, homogeneous. Firm, moist, highly plastic. Organics are minor rootlets. some fine grained gravel, with some limonite staining; yellowish brown, mottled reddish brown, brown, white. SILT content increasing.		SPTLS1	1.50-1.95		SPT 1,1,3 N=4	100				M	F		
12/3/2012 08:00 1.75 m		22.0	4.0	Clayey SILT, with trace of fine grained gravel and with some limonite staining; yellowish brown, mottled reddish brown, brown, white, homogeneous. Soft becoming firm, moist, highly plastic. becoming reddish brown mottled yellowish brown, brown, black, grey. with increased black limonite in mottling. with some fine sand becoming reddish brown, stained black, yellowish brown.		SPTLS2	3.00-3.45		VST1 3.00 m 44.0 / 9.0 kPa SPT 2,2,5 N=7	100				M	F		
		20.0	6.0	Silty fine to medium SAND, with some limonite staining; yellowish brown, greyish brown, bedded. Loose, moist. (Completely weathered SANDSTONE, extremely weak). clayey SILT seam.		SPTLS3	4.50-4.95	HQ 5.00	SPT 2,3,5 N=8	100				M	L		
		18.0	8.0	Clayey SILT, with some limonite staining and with trace of fine grained gravel, light yellowish brown, orangish brown, black, banded. Firm, moist. (Completely weathered SILTSTONE, extremely weak).					VST2 5.00 m 71.0 / 11.0 kPa	100				M	F		
		16.0	10.0	Silty fine to medium SAND, with some limonite staining; yellowish brown, greyish brown, bedded. Loose, moist. (Completely weathered, medium SANDSTONE, extremely weak).					VST3 6.00 m 47.0 / 11.0 kPa SPT 2,2,5 N=7	100				M	L		
		10.0							VST4 7.00 m 30.0 / 3.0 kPa SPT 1,4,4 N=8	100				M	L		
12/3/2012 15:00									VST5 8.50 m 20.0 / 5.0 kPa SPT 0,2,5 N=7	100				M	L		

WATER STRIKE							PIEZOMETER		GENERAL COMMENTS Reported SPT N values are uncorrected. The hammer used has been calibrated (ref N102, 21/02/2013). Hammer efficiency (Em) = 62.2%. Reported shear vane strengths are corrected.
ID	DATE	STRIKE (m)	CASING DEPTH (m)	TIME TO RISE (min)	ROSE TO (m)	REMARKS	DATE	READING (m bgl)	
1	12/11/2014	4.20	5.00	10	5.50	A remark	21/1/2015 10/3/2015 1/7/2015	4.43 4.93 5.33	

DGDGT-P-5.032-LUB-GLB-Log-IS-NZ-DRILL-HOLE-1-DGDGT-P-5.03.2-GPJ --DrawingFile-- 9/8/2020 16:31 10/01/0011 Datgel Lab and In Situ Test - DGD - DGDGT-P-5.03.2-2020-09-08 Pj: DGDGT-CLUST 5.03.1 2020-09-05

LOGGED BY: LB

CHECKED BY:

CHECKED DATE:

PROJECT : Construction Project	GROUND LEVEL (RL) : 24.50 m AHD	SHEET : 2 OF 3
SITE : Somewhere, World	EASTING : 263086.4 m	SCALE : 1:63
START DATE : 1/9/2017	NORTHING : 6266130.3 m	DEPTH : 26 m
END DATE : 2/9/2017	COORD. SYS. : MGA2020 Zone 56	

HOLE PROGRESS DATE TIME WATER DEPTH	GRAPHIC LOG	Elevation (m)	Depth (m)	SOIL / ROCK DESCRIPTION	SAMPLE TYPE GRAPHIC	SAMPLE NO. AND TYPE	DEPTH (m) FROM-TO	CASING DEPTH (m)	TEST TYPE AND VALUE	TCR (%)	SCR (%)	RQD (%)	DEFECT SPACING MAX/AVG(MIN (mm))	MOISTURE CONDITION	CONSISTENCY / RELATIVE DENSITY	WATER LEVEL	PIEZOMETER DETAILS
0.00 m	X X X								VST6 10.00 m 77.0 / 21.0 kPa SPT 0,2,6 N=8	100				M	L		○ ○ ○
	X X X	14.0	14.0	Clayey SILT, with some limonite staining; light yellowish brown, orangish brown, black, homogeneous. Stiff, moist. (Completely weathered SILTSTONE, extremely weak).						100				M	St		○ ○ ○
	○ ○ ○		12.0	Highly weathered, yellowish brown, greyish brown, medium SANDSTONE. Extremely weak, recovered as silty medium SAND, with some fine grained gravel. Medium dense. With limonite staining.					VST7 11.50 m 21.0 / 2.0 kPa SPT 4,6,9 N=15	100							○ ○ ○
	○ ○ ○		12.0	becoming dense, fine grained, with trace of fine grained gravel.						100							○ ○ ○
	X X X		12.0	highly weathered, purple, coarse SANDSTONE. Extremely weak.						100							○ ○ ○
	○ ○ ○		14.0	Moderately weathered, yellowish brown, greyish brown, medium SANDSTONE. Very weak, recovered as silty medium SAND, with some fine grained gravel. Dense.					SPT 12.50 N=50/145mm	100			280				○ ○ ○
	○ ○ ○		10.0	Unweathered, grey, with white, dark grey and red clasts, GRITSTONE. Weak, matrix is medium to coarse sand. Clasts are subangular up to 15mm.						100	88	83	190				○ ○ ○
	X X X		10.0	Unweathered, greenish grey SILTSTONE. Weak.						100			380				○ ○ ○
	○ ○ ○		16.0	Unweathered, grey, thin to moderately thin, fine SANDSTONE, interbedded sub-horizontally laminated, dark grey SILTSTONE. Very weak.					SPT 50/60mm	100			110				○ ○ ○
	○ ○ ○		16.0	becoming weak.						100	77	59	240				○ ○ ○
	○ ○ ○		16.0	Unweathered, grey, with white, dark grey and red clasts, GRITSTONE. Weak, matrix is medium to coarse sand. Clasts are subangular up to 10mm.						100	79	65	100				○ ○ ○
	○ ○ ○		18.0						SPT 50	100			80				○ ○ ○
	○ ○ ○		18.0							100	81	76	50				○ ○ ○
	○ ○ ○		6.0	calcite vein, 1-4mm thick, at 60°.						100			40				○ ○ ○
	○ ○ ○		6.0							100	81	76	50				○ ○ ○
	○ ○ ○		20.0	medium grained SANDSTONE.						100	93	89	300				○ ○ ○

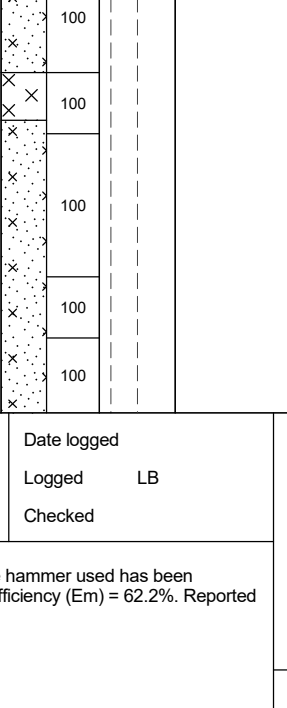
WATER STRIKE							PIEZOMETER		GENERAL COMMENTS Reported SPT N values are uncorrected. The hammer used has been calibrated (ref N102, 21/02/2013). Hammer efficiency (Em) = 62.2%. Reported shear vane strengths are corrected.
ID	DATE	STRIKE (m)	CASING DEPTH (m)	TIME TO RISE (min)	ROSE TO (m)	REMARKS	DATE	READING (m bgl)	
							21/1/2015	4.43	
							10/3/2015	4.93	
							1/7/2015	5.33	

DGDTP-5.032 LUB.GLB Log IS NZ DRILLHOLE 1 DGDTP-5.032.GPJ - Drawing File -> 9/8/2020 16:31 10/01/0011 Datgel Lab and in Silu Tool - DGDTP-5.032-2020-09-08 Pjt: DGDTP-CLUST 5.03.1 2020-09-05

Project Construction Project
 Client Datgel
 Project number 5.03.1

Location Somewhere, World

Co-ordinates 263086.4 m E 6266130.3 m N MGA2020 ZC
 Inclination / Direction -90°
 Elevation 24.50 m AHD
 Feature Area 1

GEOLOGICAL DESCRIPTION	Test Records	Drilling Method <small>Casing remarks</small>	Core Loss / Lift	Relative Strength	Weathering	Date/drilled depth	Depth (m)	Graphic Log	TCR (SCR) RQD	Spacing of 500 100 Natural Defects (mm)	Defect Description	Instrumentation	Lugeon																	
	N Values 0 - 50		0 - 100	VH H L V	SW DW XW																									
<p>A Silty CLAY, with minor organics; brown, homogeneous. Firm, moist, highly plastic. Organics are minor rootlets.</p> <p>A Silty CLAY, with minor organics; brown, yellowish brown, homogeneous. Firm, moist, highly plastic. Organics are minor rootlets.</p> <p>some fine grained gravel, with some limonite staining; yellowish brown, mottled reddish brown, brown, white. SILT content increasing.</p> <p>Clayey SILT, with trace of fine grained gravel and with some limonite staining; yellowish brown, mottled reddish brown, brown, white, homogeneous. Soft becoming firm, moist, highly plastic. becoming reddish brown mottled yellowish brown, brown, black, grey. with increased black limonite in mottling.</p> <p>with some fine sand</p> <p>becoming reddish brown, stained black, yellowish brown.</p>	<p>SPT 1,1,3 N=4</p> <p>VST1 3.00 m 44.0 / 9.0 kPa SPT 2,2,5 N=7</p> <p>SPT 2,3,5 N=8</p> <p>VST2 5.00 m 71.0 / 11.0 kPa</p> <p>VST3 6.00 m 47.0 / 11.0 kPa SPT 2,2,5 N=7</p> <p>VST4 7.00 m 30.0 / 3.0 kPa SPT 1,4,4 N=8</p> <p>VST5 8.50 m 20.0 / 5.0 kPa SPT 0,2,5 N=7</p>	<p>H/A</p> <p>SPT</p> <p>HQ3</p> <p>CASING</p> <p>TBX</p> <p>SPT</p> <p>HQ3</p> <p>SPT</p> <p>HQ3</p> <p>TBX</p> <p>SPT</p> <p>HQ3</p> <p>SPT</p> <p>HQ3</p> <p>SPT</p> <p>HQ3</p> <p>SPT</p>	<p>0 - 100</p>	<p>VH H L V</p>	<p>SW DW XW</p>	<p>11/3/2012</p> <p>12/3/2012</p>	<p>0.0</p> <p>1.0</p> <p>2.0</p> <p>3.0</p> <p>4.0</p> <p>5.0</p> <p>6.0</p> <p>7.0</p> <p>8.0</p> <p>9.0</p>		<p>100</p> <p>100</p> <p>100</p> <p>100</p> <p>100</p> <p>100</p> <p>100</p> <p>100</p> <p>100</p> <p>100</p> <p>100</p> <p>100</p> <p>100</p> <p>100</p> <p>100</p> <p>100</p> <p>100</p> <p>100</p> <p>100</p>	<p>500 100 Natural Defects (mm)</p>	<p>Bentonite</p> <p>Sand</p> <p>Bentonite</p>	<p></p>																		
<p><i>For explanation of symbols and observations, see key sheet</i></p>																														
<p>DRILLING FLUID OBSERVATIONS</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Reading</th> <th>Drilled Depth</th> <th>Fluid Depth</th> <th>Date</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td>3</td> <td>0.00</td> <td></td> <td>11/3/2012</td> <td>08.00</td> </tr> <tr> <td>3</td> <td>2.00</td> <td>1.75</td> <td>12/3/2012</td> <td>08.00</td> </tr> </tbody> </table>						Reading	Drilled Depth	Fluid Depth	Date	Time	3	0.00		11/3/2012	08.00	3	2.00	1.75	12/3/2012	08.00	<p>RELATIVE STRENGTH</p> <p>ES - Extremely strong VS - Very strong S - Strong MS - Moderately strong W - Weak VW - Very weak EW - Extremely weak</p>		<p>WEATHERING</p> <p>UW - Unweathered SW - Slightly weathered MW - Moderately weathered HW - Highly weathered CW - Completely weathered RW - Residual weathered</p>		<p>Date logged</p> <p>Logged LB</p> <p>Checked</p>		<p>Driller</p> <p>Started 1/9/2017</p> <p>Finished 2/9/2017</p> <p>Drill Rig Edson 3000</p> <p>Core Boxes 0</p>			
Reading	Drilled Depth	Fluid Depth	Date	Time																										
3	0.00		11/3/2012	08.00																										
3	2.00	1.75	12/3/2012	08.00																										
<p>Remarks</p> <p>Reported SPT N values are uncorrected. The hammer used has been calibrated (ref N102, 21/02/2013). Hammer efficiency (Em) = 62.2%. Reported shear vane strengths are corrected.</p>						<p>Hand Held Shear Vane</p>																								
<p>vane shear strength per NZGS guidelines</p>																														

DGDT-P-5.03.2 LUB.GLB Log IS NZ DRILLHOLE 2 DGDT-P-5.03.2 GPF - Drawing File >> 9/8/2020 16:31 10/01/0011 Datgel Lab and in Situ Test - DGDT LUB DGDT-P-5.03.2 2020-09-08 P1 DGDT-DUST 5.03.1 2020-09-05

LOG OF DRILLHOLE

Project Construction Project
Client Datgel
Project number 5.03.1

Location Somewhere, World

Co-ordinates 263086.4 m E 6266130.3 m N MGA2020 ZC
Inclination / Direction -90°
Elevation 24.50 m AHD
Feature Area 1

GEOLOGICAL DESCRIPTION <small>Weathering, colour, fabric, ROCK NAME, strength, defect type, lithological features (bedding, foliation, mineralogy, cement etc)</small>	Test Records <small>N Values 0 - 50</small>	Drilling Method <small>Casing remarks</small>	Core Loss / Lift	Relative Strength	Weathering	Date/drilled depth	Depth (m)	Graphic Log	TCR [SCR] RQD	Spacing of Natural Defects (mm)	Defect Description	Instrumentation	Lugeon
<p>VST6 10.00 m 77.0 / 21.0 kPa SPT 0,2,6 N=8</p> <p>Clayey SILT, with some limonite staining; light yellowish brown, orangish brown, black, homogeneous. Stiff, moist. (Completely weathered SILTSTONE, extremely weak).</p>		HQ3					10.00	X	100				
<p>VST7 11.50 m 21.0 / 2.0 kPa SPT 4,6,9 N=15</p> <p>Highly weathered, yellowish brown, greyish brown, medium SANDSTONE. Extremely weak, recovered as silty medium SAND, with some fine grained gravel. Medium dense. With limonite staining.</p> <p>becoming dense, fine grained, with trace of fine grained gravel.</p> <p>highly weathered, purple, coarse SANDSTONE. Extremely weak.</p>		HQ3					11.00	X	100				
<p>SPT 12,50 N=50/145mm</p> <p>Moderately weathered, yellowish brown, greyish brown, medium SANDSTONE. Very weak, recovered as silty medium SAND, with some fine grained gravel. Dense.</p>		HQ3					12.00	X	100				
<p>SPT 50/60mm</p> <p>Unweathered, grey, with white, dark grey and red clasts, GRITSTONE. Weak, matrix is medium to coarse sand. Clasts are subangular up to 15mm.</p> <p>Unweathered, greenish grey SILTSTONE. Weak.</p> <p>Unweathered, grey, thin to moderately thin, fine SANDSTONE, interbedded sub-horizontally laminated, dark grey SILTSTONE. Very weak.</p>		HQ3					13.00	X	100				
<p>SPT 50</p> <p>becoming weak.</p> <p>Unweathered, grey, with white, dark grey and red clasts, GRITSTONE. Weak, matrix is medium to coarse sand. Clasts are subangular up to 10mm.</p>		HQ3					14.00	X	100 [88] 83		14.08: Joint; 65 - 65°; undulating; rough 14.27: Joint; 10 - 30°; stepped; rough 14.65: Joint; 40 - 40°; undulating; rough		
<p>SPT 50</p> <p>calcite vein, 1-4mm thick, at 60°.</p>		HQ3					15.00	X	100		15.10: Joint; 40 - 60°; undulating; rough 15.44: Joint; 5 - 50°; stepped; rough		
<p>medium grained SANDSTONE.</p>		HQ3					16.00	X	100 [77] 59		17.74: Joint; 70 - 70°; stepped; rough 17.79: Joint; 10 - 60°; stepped; rough 18.26: Bedding Joint; 5 - 5°; undulating; rough 18.56: Joint; 10 - 10°; undulating; rough		
<p></p>		HQ3					17.00	X	100 [79] 65				
<p></p>		HQ3					18.00	X	100 [81] 76				
<p></p>		HQ3					19.00	X	100 [93] 89		19.30: Joint; 10 - 10°; undulating; rough 19.37: Bedding Joint; 5 - 5°; stepped; rough		

DGDT-P-5.03.2.LIB.G.L.B. Log IS NZ DRILLHOLE 2 DGDT-P-5.03.2.GPJ - Drawing File -> 9/8/2020 16:31 10/01/0011 Datgel Lab and in Silt Test - DGDT-P-5.03.2 2020-09-08 Phj.DGDT-DUST 5.03.1 2020-09-05

<i>For explanation of symbols and observations, see key sheet</i>				RELATIVE STRENGTH <small>ES - Extremely strong VS - Very strong S - Strong MS - Moderately strong W - Weak VW - Very weak EW - Extremely weak</small>		WEATHERING <small>UW - Unweathered SW - Slightly weathered MW - Moderately weathered HW - Highly weathered CW - Completely weathered RW - Residual weathered</small>		Date logged Logged LB Checked		Driller Started 1/9/2017 Finished 2/9/2017 Drill Rig Edson 3000 Core Boxes 0 Page 2 of 3			
DRILLING FLUID OBSERVATIONS						Remarks Reported SPT N values are uncorrected. The hammer used has been calibrated (ref N102, 21/02/2013). Hammer efficiency (Em) = 62.2%. Reported shear vane strengths are corrected.							
Reading	Drilled Depth	Fluid Depth	Date	Time									
3	10.15	0	12/3/2012	15.00									
Hand Held Shear Vane													

vane shear strength per NZGS guidelines

Project Construction Project
Client Datgel
Project number 5.03.1

Location Somewhere, World

Co-ordinates 263086.4 m E 6266130.3 m N MGA2020 ZC
Inclination / Direction -90°
Elevation 24.50 m AHD
Feature Area 1

GEOLOGICAL DESCRIPTION		Test Records	Drilling Method <small>Casing remarks</small>	Core Loss / Lift	Relative Strength	Weathering	Date/drilled depth	Depth (m)	Graphic Log	TCR [SCR] RQD	Spacing of Natural Defects (mm)	Defect Description	Instrumentation	Lugeon
		N Values 0 - 50		0 - 100	VH H L VL	SW DW XW					500 100			
G	Unweathered, grey, thin to moderately thin, fine SANDSTONE, interbedded sub-horizontally laminated, dark grey SILTSTONE. Very weak. <i>(continued)</i> medium grained SANDSTONE.		HQ3					21.0		100 [93] 89		20.05: Bedding Joint; 10 - 10°; undulating; rough 20.11: Joint; 50 - 60°; undulating; rough 20.23: Bedding Joint; 5 - 5°; undulating; rough		
	medium grained SANDSTONE.		HQ3					22.0		100 [82] 71		22.03: Joint; 5 - 5°; stepped; rough		
	Unweathered, grey, with white, dark grey and red clasts, GRITSTONE. Weak, matrix is medium to coarse sand. Clasts are subangular up to 15mm.		HQ3					23.0				22.63: Joint; 60 - 60°; undulating; rough		
	purple band. SILTSTONE clast. green clast.		HQ3					24.0		100 [80] 76		23.11: Joint; 20 - 20°; undulating; rough		
G	calcite vein, 2-4mm thick, at 80°. white clast.		HQ3				25.0			100 [75] 62		24.70: Joint; 60 - 60°; undulating; smooth		
G	Slightly weathered, grey, thin to moderately thin, fine SANDSTONE, interbedded sub-horizontally very thin, dark grey SILTSTONE. Weak. purple clast. purple clast. white vein, 20mm thick, at 70°.		HQ3				26.0			100 [79] 68				
Hole Terminated at 26.0 m Target depth								27.0						
								28.0						
								29.0						
For explanation of symbols and observations, see key sheet		RELATIVE STRENGTH		WEATHERING		Date logged		Driller						
DRILLING FLUID OBSERVATIONS		ES - Extremely strong VS - Very strong S - Strong MS - Moderately strong W - Weak VW - Very weak EW - Extremely weak		UW - Unweathered SW - Slightly weathered MW - Moderately weathered HW - Highly weathered CW - Completely weathered RW - Residual weathered		Logged LB		Started 1/9/2017						
Reading Drilled Depth Fluid Depth Date Time		Remarks		Checked		Finished 2/9/2017		Drill Rig Edson 3000						
Hand Held Shear Vane		Reported SPT N values are uncorrected. The hammer used has been calibrated (ref N102, 21/02/2013). Hammer efficiency (Em) = 62.2%. Reported shear vane strengths are corrected.				Core Boxes 0								
vane shear strength per NZGS guidelines						Page 3 of 3								

DGDGT-P-5.03.2-LIB-GLB-Log-IS-NZ-DRILLHOLE-2-DGDGT-P-5.03.2-GPJ --DrawingFile-- 9/8/2020 16:31:10 001.0011 Datgel Lab and In Situ Test - DGDGT-P-5.03.2-2020-09-08 Ph: DGDGT-CLUST 5.03.1 2020-09-05

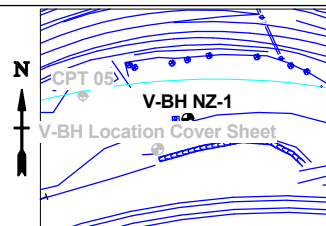
Project: Construction Project		Feature		Location: Area 1		No.:	
Job No.: 5.03.1		Start Date: 1/9/2017 Finish Date: 2/9/2017		Ground Level (m AHD): 24.50		Co-Ordinates (MGA2020 Zone 56): E 263086.4 N 6266130.3	
Client: Datgel		Hole Depth: 26.00 m				Sheet: 1 of 4	

Type	Run	Fluid & Water	Piezometer	Geological Description	Legend	Weathering	Field Strength	Elevation (m AHD)	Depth (m)	Symbolic Log	Defect Spacing (mm)	Defect Description	TCR (SCR) RQD (%)	Samples	Tests
	0.00	12/03/12 15:00		Silty CLAY, with minor organics; brown, homogeneous. Firm, moist, highly plastic. Organics are minor rootlets.				+24.30							
	1.50	12/03/12 08:00		Silty CLAY, with minor organics; brown, yellowish brown, homogeneous. Firm, moist, highly plastic. Organics are minor rootlets.				+23.40	1						
	1.95			Clayey SILT, with trace of fine grained gravel and with some limonite staining; yellowish brown, mottled reddish brown, brown, white, homogeneous. Soft becoming firm, moist, highly plastic.					2						
	3.00								3						
	3.50								4						
	3.95								5						
	4.50								6						
	4.95								7						
	6.00								8						
	6.25			Silty fine to medium SAND, with some limonite staining; yellowish brown, greyish brown, bedded. Loose, moist. (Completely weathered SANDSTONE, extremely weak).				+18.30	9						
	6.70								10						
	7.50			Clayey SILT, with some limonite staining and with trace of fine grained gravel, light yellowish brown, orangish brown, black, banded. Firm, moist.				+17.00	11						
								+16.65	12						

DGDTP-5.03.2.LIB.GLB Log IS NZ DRILLHOLE 3 DGDTP-5.03.2.GPJ --DrawingFile-- 9/8/2020 16:31 10:01:00:11 Datgel Lab and In Situ Test - DGD - DGDTP-5.03.2 2020-09-08 Pj: DGDTP-CLUST 5.03.1 2020-09-05

Explanations:

- Rock Mass Weathering - unweathered, slightly weathered, moderately weathered, highly weathered, completely weathered, residually weathered
- Relative Rock Strength - extremely weak, very weak, weak, moderately strong, strong, very strong
- TCR - Total Core Recovery
- SCR - Solid Core Recovery
- RQD - Rock Quality Designation
- Attitude of discontinuities displayed as Dip/Dip Direction and Trend/Plunge
- Small Disturbed Sample
- Large Disturbed Sample
- ↓ Scala Penetrometer - blows/100mm
- ⊥ Permeability Test
- U100 Undisturbed Sample
- ∇ Insitu Vane Shear Strength (kPa)
- UTP = Unable to penetrate



Remarks

Reported SPT N values are uncorrected. The hammer used has been calibrated (ref N102, 21/02/2013). Hammer efficiency (Em) = 62.2%. Reported shear vane strengths are corrected. 4.20: Water Strike A remark

All dimensions in metres Scale 1:50	Contractor:	Rig/Plant Used: Edson 3000	Logged by: LB	Checked by:
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Project: Construction Project		Feature		Location: Area 1		No.:	
Job No.: 5.03.1		Start Date: 1/9/2017 Finish Date: 2/9/2017		Ground Level (m AHD): 24.50		Co-Ordinates (MGA2020 Zone 56): E 263086.4 N 6266130.3	
Client: Datgel		Hole Depth: 26.00 m				Sheet: 2 of 4	

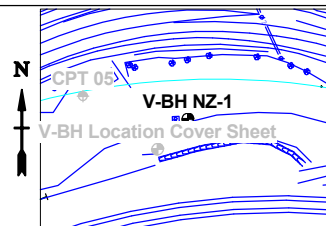
V-BH NZ-1

Type	Run	Fluid & Water	Piezometer	Geological Description	Legend	Weathering	Field Strength	Elevation (m AHD)	Depth (m)	Symbolic Log	Defect Spacing (mm)	Defect Description (type, orientation, spacing, roughness, persistence aperture, infilling etc)	TCR (SCR) RQD (%)	Samples	Tests
	7.95			(Completely weathered SILTSTONE, extremely weak). Silty fine to medium SAND, with some limonite staining; yellowish brown, greyish brown, bedded. Loose, moist. (Completely weathered, medium SANDSTONE, extremely weak). <i>(continued)</i>	X								100		
	9.00				X			9					100		✓ P= 20 kPa R= 5 kPa
	9.45				X								100		SPT 9.00 m 0.2,5 N=7
	10.50			Clayey SILT, with some limonite staining; light yellowish brown, orangish brown, black, homogeneous. Stiff, moist. (Completely weathered SILTSTONE, extremely weak).	X			+14.25 +14.00					100		✓ P= 77 kPa R= 21 kPa
	10.95			Highly weathered, yellowish brown, greyish brown, medium SANDSTONE. Extremely weak, recovered as silty medium SAND, with some fine grained gravel. Medium dense. With limonite staining.	X			11					100		✓ P= 21 kPa R= 2 kPa
	12.00				X			12					100		SPT 12.00 m 4.6,9 N=15
	12.45				X			13					100		
	13.50			Moderately weathered, yellowish brown, greyish brown, medium SANDSTONE. Very weak, recovered as silty medium SAND, with some fine grained gravel. Dense.	X			+11.15 +10.70					100		SPT 13.50 m 12.50 N=50/145mm
	13.80			Unweathered, grey, with white, dark grey and red clasts. GRITSTONE. Weak, matrix is medium to coarse sand. Clasts are subangular up to 15mm.	○			+10.00	14			14.08: Joint; 65 - 65°; undulating; rough 14.27: Joint; 10 - 30°; stepped; rough	100 (88) 83		
	15.00			Unweathered, greenish grey SILTSTONE. Weak.	X			+9.50	15			14.65: Joint; 40 - 40°; undulating; rough			
	15.06			Unweathered, grey, thin to moderately thin, fine SANDSTONE, interbedded sub-horizontally laminated, dark grey SILTSTONE. Very weak.	X							15.10: Joint; 40 - 60°; undulating; rough 15.44: Joint; 5 - 50°; stepped; rough	100 (77) 59		SPT 15.00 m 50/60mm

DGDGT-P-5.03.2-LIB-GLB-log IS NZ-DRILLHOLE-3 DGDGT-P-5.03.2-GPJ --DrawingFile-- 9/8/2020 16:32 10:01:00:11 Datgel Lab and in Situ Test - DGD [Lib: DGDGT-P-5.03.2 2020-09-08] Pj: DGDGT-CLUST 5.03.1 2020-09-05

Explanations:

- Rock Mass Weathering - unweathered, slightly weathered, moderately weathered, highly weathered, completely weathered, residually weathered
- Relative Rock Strength - extremely weak, very weak, weak, moderately strong, strong, very strong
- TCR - Total Core Recovery
- SCR - Solid Core Recovery
- RQD - Rock Quality Designation
- Attitude of discontinuities displayed as Dip/Dip Direction and Trend/Plunge
- Small Disturbed Sample
- Large Disturbed Sample
- ↓ Scala Penetrometer - blows/100mm
- ⊥ Permeability Test
- U100 Undisturbed Sample
- ∨ Insitu Vane Shear Strength (kPa)
- UTP = Unable to penetrate



Remarks

Reported SPT N values are uncorrected. The hammer used has been calibrated (ref N102, 21/02/2013). Hammer efficiency (Em) = 62.2%. Reported shear vane strengths are corrected. 4.20: Water Strike A remark

All dimensions in metres Scale 1:50	Contractor:	Rig/Plant Used: Edson 3000	Logged by: LB	Checked by:
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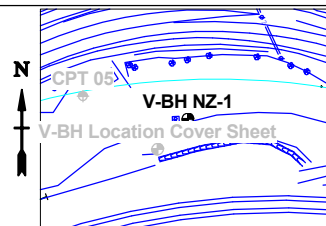
Project: Construction Project		Feature		Location: Area 1		No.:	
Job No.: 5.03.1		Start Date: 1/9/2017 Finish Date: 2/9/2017		Ground Level (m AHD): 24.50		Co-Ordinates (MGA2020 Zone 56): E 263086.4 N 6266130.3	
Client: Datgel		Hole Depth: 26.00 m				Sheet: 3 of 4	

V-BH NZ-1

Type	Run	Fluid & Water	Piezometer	Geological Description	Legend	Weathering	Field Strength	Elevation (m AHD)	Depth (m)	Symbolic Log	Defect Spacing (mm)	Defect Description	TCR (SCR) RQD (%)	Samples	Tests
	15.06			Unweathered, grey, thin to moderately thin, fine SANDSTONE, interbedded sub-horizontally laminated, dark grey SILTSTONE. Very weak. (continued)	[Symbolic Log]	[Weathering]	[Field Strength]	[Elevation]	[Depth]	[Symbolic Log]	[Defect Spacing]	[Defect Description]	100 (77) 59		SPT 16.50 m 50
	16.50 16.58												100 (79) 65		
	18.00			Unweathered, grey, with white, dark grey and red clasts. GRITSTONE. Weak, matrix is medium to coarse sand. Clasts are subangular up to 15mm.	[Symbolic Log]	[Weathering]	[Field Strength]	[Elevation]	[Depth]	[Symbolic Log]	[Defect Spacing]	[Defect Description]	100 (81) 76		
	19.50												100 (93) 89		
	21.00												100 (82) 71		
	22.50							+2.47				22.03: Joint; 5 - 5°; stepped; rough	100 (80) 76		
												22.63: Joint; 60 - 60°; undulating; rough			
												23.11: Joint; 20 - 20°; undulating; rough			

Explanations:

- Rock Mass Weathering - unweathered, slightly weathered, moderately weathered, highly weathered, completely weathered, residually weathered
- Relative Rock Strength - extremely weak, very weak, weak, moderately strong, strong, very strong
- TCR - Total Core Recovery
- SCR - Solid Core Recovery
- RQD - Rock Quality Designation
- Attitude of discontinuities displayed as Dip/Dip Direction and Trend/Plunge
- Small Disturbed Sample
- Large Disturbed Sample
- ↓ Scala Penetrometer - blows/100mm
- ⊥ Permeability Test
- U100 Undisturbed Sample
- ∇ Insitu Vane Shear Strength (kPa)
- UTP = Unable to penetrate



Remarks

Reported SPT N values are uncorrected. The hammer used has been calibrated (ref N102, 21/02/2013). Hammer efficiency (Em) = 62.2%. Reported shear vane strengths are corrected. 4.20: Water Strike A remark

DGDTP-5.03.2.LIB.GLB Log IS NZDRILLHOLE 3 DGDTP-5.03.2.GPJ --DrawingFiles-- 9/8/2020 16:32 10/01/0011 Datgel Lab and In Situ Test - DGD - DGDTP-5.03.2 2020-09-08 Pj: DGDTP-CLUST 5.03.1 2020-09-05

All dimensions in metres Scale 1:50	Contractor:	Rig/Plant Used: Edson 3000	Logged by: LB	Checked by:
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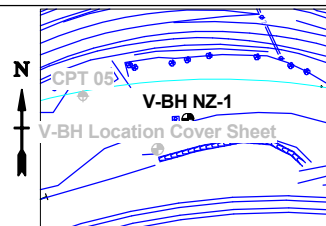
Project: Construction Project		Feature		Location: Area 1		No.:	
Job No.: 5.03.1		Start Date: 1/9/2017 Finish Date: 2/9/2017		Ground Level (m AHD): 24.50		Co-Ordinates (MGA2020 Zone 56): E 263086.4 N 6266130.3	
Client: Datgel		Hole Depth: 26.00 m				Sheet: 4 of 4	

V-BH NZ-1

Type	Run	Fluid & Water	Piezometer	Geological Description	Legend	Weathering	Field Strength	Elevation (m AHD)	Depth (m)	Symbolic Log	Defect Spacing (mm)	Defect Description	TCR (SCR) RQD (%)	Samples	Tests
	24.00			Soil Description: subordinate, particle size, MAJOR, minor; colour, structure; strength; moisture condition; grading; bedding; plasticity; sensitivity; major qualifications; weathering of clasts; subordinate qualifications; minor qualifications; additional structure; geologic unit. Rock Description: weathering; colour; texture; fabric and orientation; NAME; strength; geologic unit.	○ ○ ○ ○ ○ ○ ○ ○ ○	PS HW HM SW SU UW	VS VL VH LMD LMD SLD SLD SHW SHW VW VW VS VS	-0.10	25	600 100	24.70: Joint; 60 - 60°; undulating; smooth	100 (75) 62			
	25.50			Slightly weathered, grey, thin to moderately thin, fine SANDSTONE, interbedded sub-horizontally very thin, dark grey SILTSTONE. Weak.				-1.50	26				100 (79) 68		
				Hole Terminated at 26.00 m Target depth					27						
									28						
									29						
									30						
									31						

Explanations:

- Rock Mass Weathering - unweathered, slightly weathered, moderately weathered, highly weathered, completely weathered, residually weathered
- Relative Rock Strength - extremely weak, very weak, weak, moderately strong, strong, very strong
- TCR - Total Core Recovery
- SCR - Solid Core Recovery
- RQD - Rock Quality Designation
- Attitude of discontinuities displayed as Dip/Dip Direction and Trend/Plunge
- Small Disturbed Sample
- Large Disturbed Sample
- ↓ Scala Penetrometer - blows/100mm
- ⊥ Permeability Test
- U100 Undisturbed Sample
- ∨ Insitu Vane Shear Strength (kPa)
- UTP = Unable to penetrate


Remarks

Reported SPT N values are uncorrected. The hammer used has been calibrated (ref N102, 21/02/2013). Hammer efficiency (Em) = 62.2%. Reported shear vane strengths are corrected. 4.20: Water Strike A remark

 All dimensions in metres
Scale 1:50

Contractor:

 Rig/Plant Used:
Edson 3000

 Logged by:
LB

Checked by:

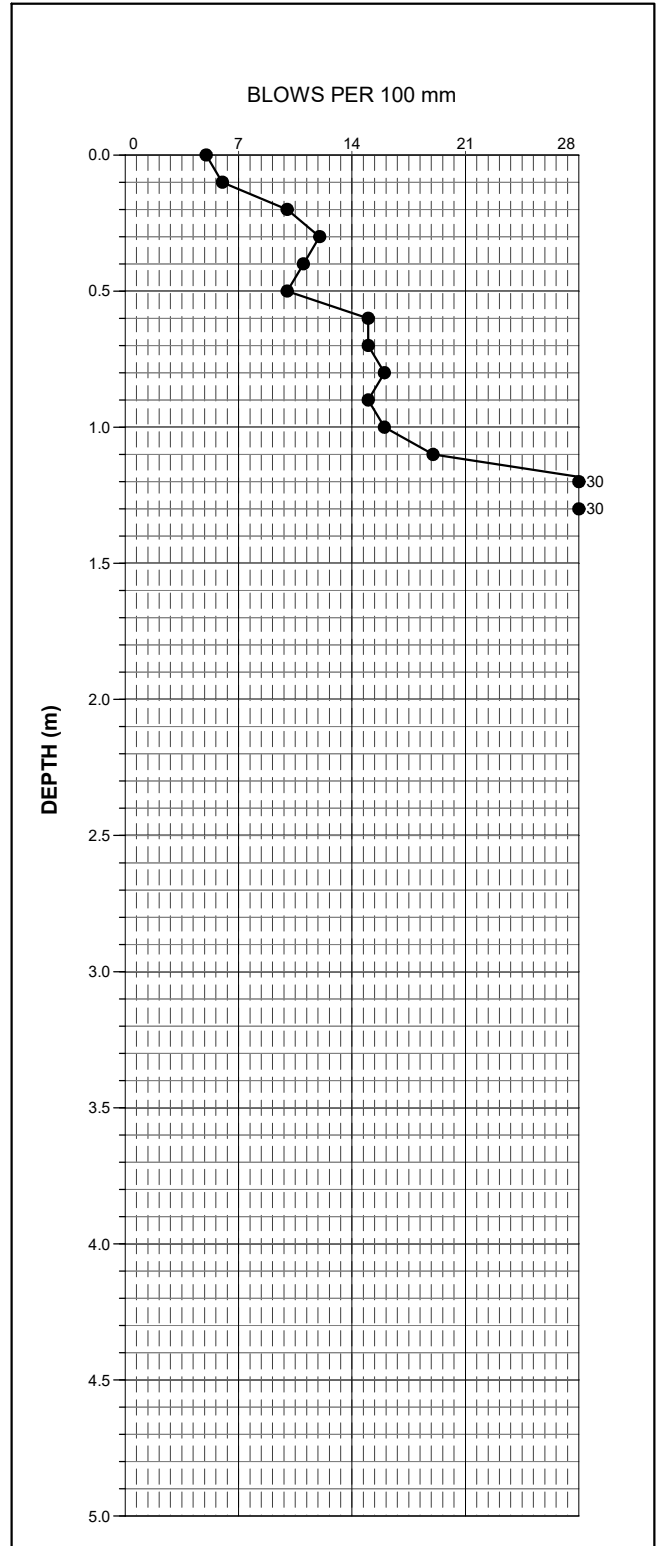
Job Number 5.03.1 SCALAR PENETROMETER LOG V-BH AS Short

PROJECT : Construction Project
SITE : Somewhere, World
START DATE : 1/7/2008
END DATE : 5/7/2008

GROUND LEVEL (RL) : 25.25 m AHD
EASTING : 262536.6 m
NORTHING : 6266347.4 m
COORD. SYS. : MGA2020 Zone 56

SHEET : 1 OF 1
SCALE : 1:28
DEPTH : 5.5 m

DEPTH (m)	NO OF BLOWS PER 100 mm
0.00	5
0.10	6
0.20	10
0.30	12
0.40	11
0.50	10
0.60	15
0.70	15
0.80	16
0.90	15
1.00	16
1.10	19
1.20	30
1.30	30/20mm



D:\05\03\2\LIB\GIB_Log IS NZ SCALAR PENETROMETER.DGD1-P-5.03.2.GPJ -<DrawingFile> 9/9/2020 16:32 10.01.00.11 Datgel Lab and In Situ Test - DGD1 Lib: DGD1-P-5.03.2 2020-09-08 P1: DGD1-D1-ST-5.03.1 2020-09-05

GENERAL COMMENTS
A Remark

LOGGED BY: PB

CHECKED BY: CB

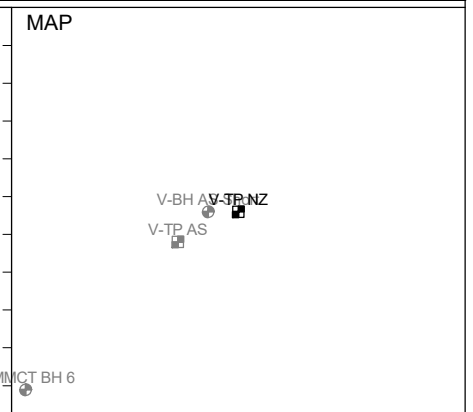
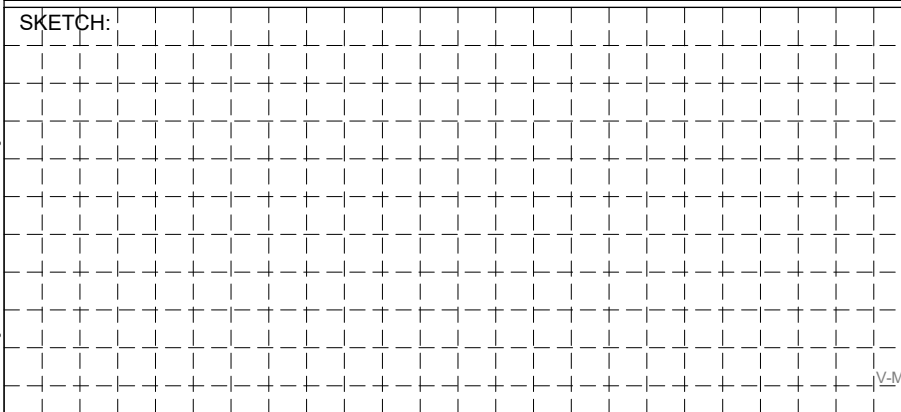
CHECKED DATE: 4/7/2008

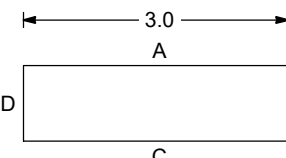
TEST PIT LOG

Project: Construction Project		Feature		Location: 12345		No.:	
Job No.: 5.03.1		Start Date: 18/12/2009 Finish Date: 18/12/2009		Ground Level (m AHD): 24.15		Co-Ordinates (MGA2020 Zone 56): E 262546.6 N 6266347.4	
Client: Datgel		Hole Depth: 6.35 m		Sheet: 1 of 2		V-TP NZ	

Elevation (m AHD)	Depth (m)	Geological Description	Legend	Weathering	Field Strength	Defect Description (type, orientation, spacing, roughness, persistence aperture, infilling etc)	Samples	Tests
+24.15		SAND, fine to medium, green	[Symbol]	[Symbol]	[Symbol]			k = 1
+23.10	1.05	CLAY, intermediate plasticity, brown	[Symbol]	[Symbol]	[Symbol]			∨
+21.85	2.30	Silty CLAY, low plasticity, green	[Symbol]	[Symbol]	[Symbol]		1.35	
+21.00	3.15	CLAY, low plasticity, green	[Symbol]	[Symbol]	[Symbol]		2.85	∨ P= 50 kPa R= 25 kPa
+20.15	4.00	Clayey SAND, fine, yellow	[Symbol]	[Symbol]	[Symbol]			k = 1
+19.80	4.35	Silty CLAY, low plasticity, green	[Symbol]	[Symbol]	[Symbol]		4.20	
+18.70	5.45	Organics	[Symbol]	[Symbol]	[Symbol]			
+18.55	5.60	Silty CLAY, low plasticity, green	[Symbol]	[Symbol]	[Symbol]			
							5.70	

DGDTP-5.03.2.LIB.G.L.B. Log IS NZ TEST PIT 2 DGDTP-5.03.2.GPJ <-< Drawing File >> 9/9/2020 16:32:10.01.00.11 Datgel Lab and in Situ Tool - DGD | Lib, DGDTP-5.03.2.2020-09-08.PH; DGDTP-DLST 5.03.1.2020-09-05



Shoring/Support: None Stability: Unstable 	<ul style="list-style-type: none"> ● Small Disturbed Sample ○ Large Disturbed Sample ■ U100 Undisturbed Sample ↓ Scala Penetrometer - blows/100mm ⬇ Permeability Test ⬇ Schmidt Hammer ∨ Insitu Vane Shear Strength (kPa) UTP = Unable to penetrate 	GROUNDWATER <input type="checkbox"/> None <input checked="" type="checkbox"/> Slow Seep (depth 5.0 m) <input checked="" type="checkbox"/> Rapid Inflow (depth 3.0 m)	Remarks A general remark 3.00: Water Strike Rapid Inflow 5.00: Water Strike Slow Seep
		PIT TERMINATED DUE TO: <input checked="" type="checkbox"/> Target depth <input type="checkbox"/> Flooding <input type="checkbox"/> Refusal <input type="checkbox"/> Machine limit	

All dimensions in metres Scale 1:50	Contractor: Contractor 1	Rig/Plant Used: 30t Excavator	Logged by: ABC	Checked by: CB
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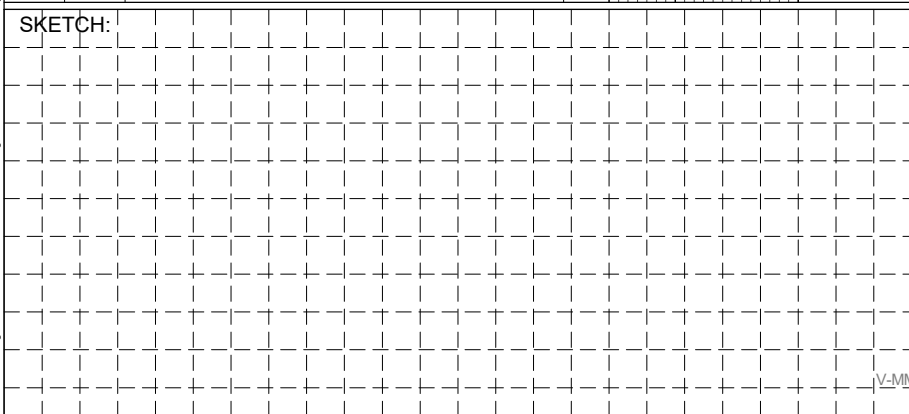
TEST PIT LOG

Project: Construction Project		Feature		Location: 12345		No.: V-TP NZ	
Job No.: 5.03.1	Start Date: 18/12/2009 Finish Date: 18/12/2009	Ground Level (m AHD): 24.15	Co-Ordinates (MGA2020 Zone 56): E 262546.6 N 6266347.4				
Client: Datgel			Hole Depth: 6.35 m			Sheet: 2 of 2	

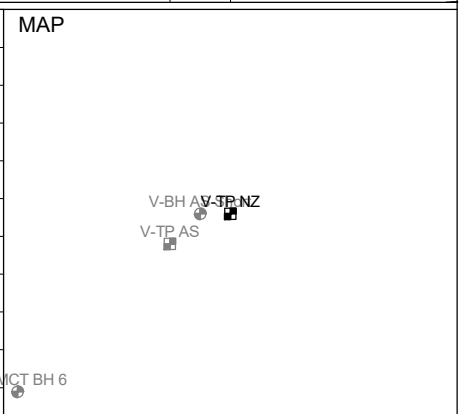
Elevation (m AHD)	Depth (m)	Geological Description	Legend	Weathering	Field Strength	Defect Description (type, orientation, spacing, roughness, persistence aperture, infilling etc)	Samples	Tests
+18.15		Soil Description: subordinate, praction size, MAJOR, minor, colour, structure; strength; moisture condition; grading; bedding; plasticity; sensitivity; major qualifications; weathering of clasts; subordinate qualifications; minor qualifications; additional structure; (GEOLOGIC UNIT). Rock Description: weathering; colour; texture; fabric and orientation; NAME; strength; additional description, (GEOLOGIC UNIT).						
+17.80	6.35	Silty CLAY, low plasticity, green (<i>continued</i>)						
		Hole Terminated at 6.35 m Target depth						
	7							
	8							
	9							
	10							
	11							

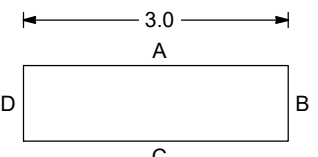
DGDTP-5.03.2.LIB.G.L.B. Log IS NZ TEST PIT 2 DGDTP-5.03.2.GPJ <-DrawingFile>> 9/9/2020 16:32:10.01.00.11 Datgel Lab and in Situ Tool - DGD | Lib: DGDTP-5.03.2.2020-09-08.PH; DGDTP-5.03.1.2020-09-05

SKETCH:



MAP



Shoring/Support: None Stability: Unstable 	<ul style="list-style-type: none"> ● Small Disturbed Sample ┆ Large Disturbed Sample ■ U100 Undisturbed Sample ┆ Scala Penetrometer - blows/100mm ┆ Permeability Test ▼ Schmidt Hammer ✓ Insitu Vane Shear Strength (kPa) UTP = Unable to penetrate 	GROUNDWATER <input type="checkbox"/> None <input checked="" type="checkbox"/> Slow Seep (depth 5.0 m) <input checked="" type="checkbox"/> Rapid Inflow (depth 3.0 m)	REMARKS A general remark 3.00: Water Strike Rapid Inflow 5.00: Water Strike Slow Seep
		PIT TERMINATED DUE TO: <input checked="" type="checkbox"/> Target depth <input type="checkbox"/> Flooding <input type="checkbox"/> Refusal <input type="checkbox"/> Machine limit	

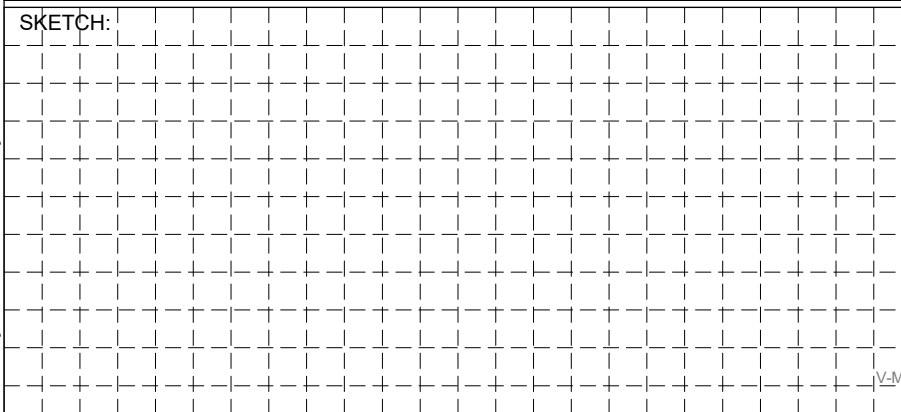
All dimensions in metres Scale 1:50	Contractor: Contractor 1	Rig/Plant Used: 30t Excavator	Logged by: ABC	Checked by: CB
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Project: Construction Project		Feature		Location: 12345		No.:	
Job No.: 5.03.1		Start Date: 18/12/2009 Finish Date: 18/12/2009		Ground Level (m AHD): 24.15		Co-Ordinates (MGA2020 Zone 56): E 262546.6 N 6266347.4	
Client: Datgel		Hole Depth: 6.35 m		Sheet: 1 of 2		V-TP NZ	

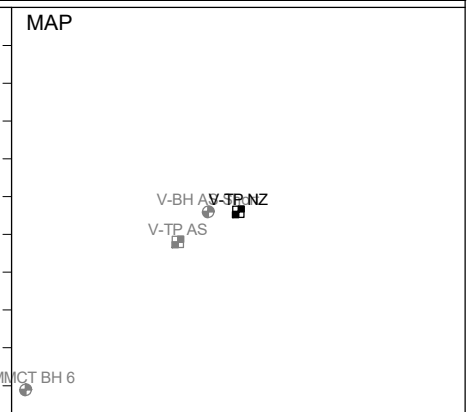
Elevation (m AHD)	Depth (m)	Geological Description	Legend	Weathering	Field Strength	Scala Penetrometer (mm / blow)	Samples	Tests
+24.15		SAND, fine to medium, green	[Symbol]	[Symbol]	[Symbol]	[Symbol]		k = 1
+23.10	1.05	CLAY, intermediate plasticity, brown	[Symbol]	[Symbol]	[Symbol]	[Symbol]		∇
+21.85	2.30	Silty CLAY, low plasticity, green	[Symbol]	[Symbol]	[Symbol]	[Symbol]	1.35	
+21.00	3.15	CLAY, low plasticity, green	[Symbol]	[Symbol]	[Symbol]	[Symbol]	2.85	∇ P= 50 kPa R= 25 kPa
+20.15	4.00	Clayey SAND, fine, yellow	[Symbol]	[Symbol]	[Symbol]	[Symbol]		k = 1
+19.80	4.35	Silty CLAY, low plasticity, green	[Symbol]	[Symbol]	[Symbol]	[Symbol]	4.20	
+18.70	5.45	Organics	[Symbol]	[Symbol]	[Symbol]	[Symbol]		
+18.55	5.60	Silty CLAY, low plasticity, green	[Symbol]	[Symbol]	[Symbol]	[Symbol]		
							5.70	

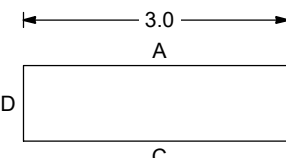
DGDTP-5.03.2.LIB.G.L.B. Log IS NZ TEST PIT 3 DGDTP-5.03.2.GPJ <-DrawingFile>> 9/9/2020 16:32:10.01.00.11 Datgel Lab and in Situ Tool - DGD | Lib: DGDTP-5.03.2.2020-09-08.Pjt; DGDTP-DLST-5.03.1.2020-06-05

SKETCH:



MAP



Shoring/Support: None Stability: Unstable 	<ul style="list-style-type: none"> ● Small Disturbed Sample ○ Large Disturbed Sample ■ U100 Undisturbed Sample ↓ Scala Penetrometer - blows/100mm ⬇ Permeability Test ⬇ Schmidt Hammer ∇ Insitu Vane Shear Strength (kPa) UTP = Unable to penetrate 	GROUNDWATER <input type="checkbox"/> None <input checked="" type="checkbox"/> Slow Seep (depth 5.0 m) <input checked="" type="checkbox"/> Rapid Inflow (depth 3.0 m)	REMARKS A general remark 3.00: Water Strike Rapid Inflow 5.00: Water Strike Slow Seep
		PIT TERMINATED DUE TO: <input checked="" type="checkbox"/> Target depth <input type="checkbox"/> Flooding <input type="checkbox"/> Refusal <input type="checkbox"/> Machine limit	

All dimensions in metres Scale 1:50	Contractor: Contractor 1	Rig/Plant Used: 30t Excavator	Logged by: ABC	Checked by: CB
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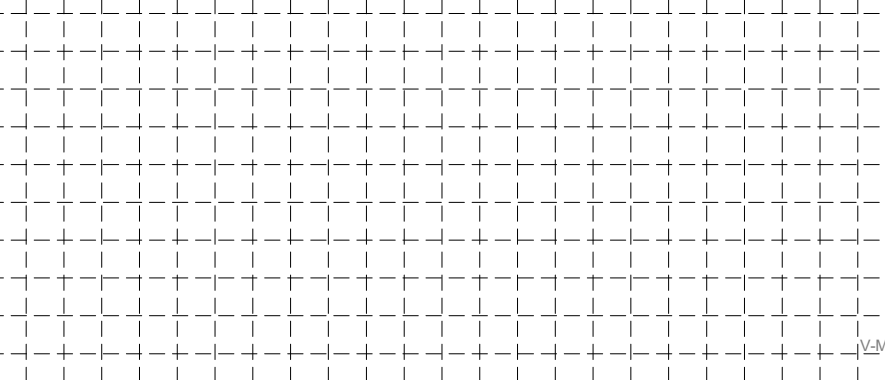
TEST PIT LOG

Project: Construction Project		Feature		Location: 12345		No.:	
Job No.: 5.03.1		Start Date: 18/12/2009 Finish Date: 18/12/2009		Ground Level (m AHD): 24.15		Co-Ordinates (MGA2020 Zone 56): E 262546.6 N 6266347.4	
Client: Datgel		Hole Depth: 6.35 m				Sheet: 2 of 2	

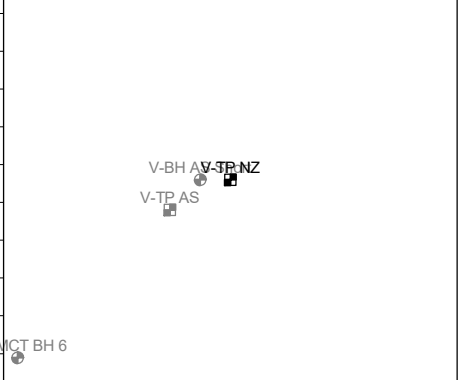
V-TP NZ

Elevation (m AHD)	Depth (m)	Geological Description <small>Soil Description: subordinate, particle size, MAJOR, minor, colour, structure; strength, moisture condition; grading, bedding, plasticity, sensitivity; major qualifications; weathering of clasts; subordinate qualifications; minor qualifications; additional structure; (GEOLOGIC UNIT). Rock Description: weathering; colour; texture; fabric and orientation; NAME; strength; additional description, (GEOLOGIC UNIT).</small>	Legend	Weathering	Field Strength	Scala Penetrometer (mm / blow)			Samples	Tests
						50	100	150		
+18.15										
+17.80	6.35	Silty CLAY, low plasticity, green (<i>continued</i>)								
		Hole Terminated at 6.35 m Target depth								
	7									
	8									
	9									
	10									
	11									

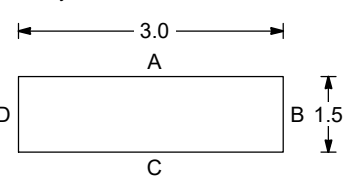
SKETCH:



MAP



Shoring/Support: None
Stability: Unstable



- Small Disturbed Sample
- Large Disturbed Sample
- U100 Undisturbed Sample
- ↓ Scala Penetrometer - blows/100mm
- ⇄ Permeability Test
- ▼ Schmidt Hammer
- ✓ Insitu Vane Shear Strength (kPa)
- UTP = Unable to penetrate

GROUNDWATER None

- Slow Seep (depth 5.0 m)
- Rapid Inflow (depth 3.0 m)

PIT TERMINATED DUE TO:

- Target depth Flooding
- Refusal Machine limit

Remarks

A general remark
3.00: Water Strike Rapid Inflow
5.00: Water Strike Slow Seep

All dimensions in metres
Scale 1:50

Contractor:
Contractor 1

Rig/Plant Used:
30t Excavator

Logged by:
ABC

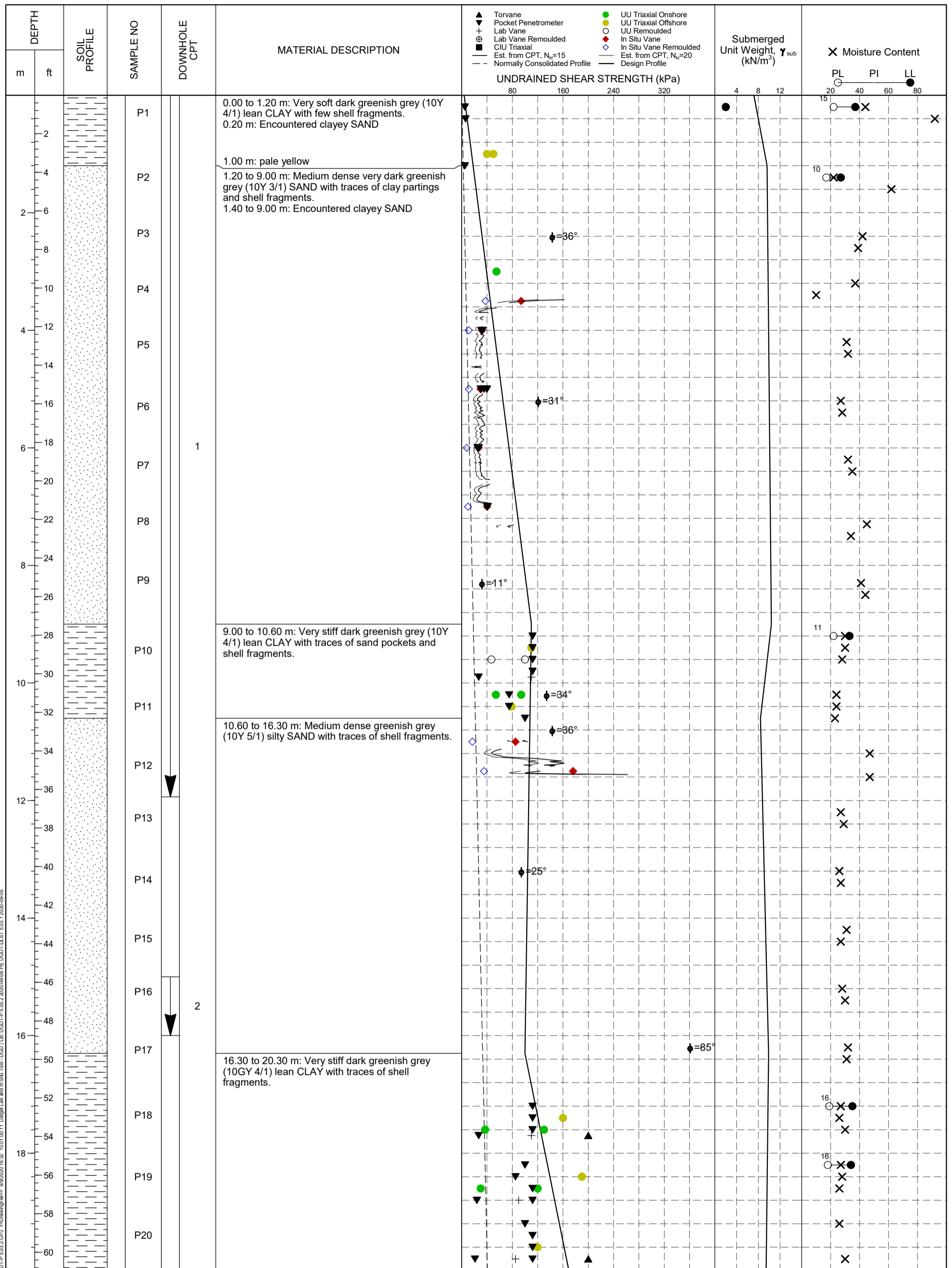
Checked by:
CB

Job Number 5.03.1 TEST PIT LOG V-TP NZ

PROJECT : Construction Project	GROUND LEVEL (RL) : 24.15 m AHD	SHEET : 1 OF 1
SITE : Somewhere, World	EASTING : 262546.6 m	SCALE : 1:50
START DATE : 18/12/2009	NORTHING : 6266347.4 m	DEPTH : 6.35 m
END DATE : 18/12/2009	COORD. SYS. : MGA2020 Zone 56	

DEPTH (m)	WATER LEVELS	GRAPHIC LOG	MOISTURE	USCS	SOIL / ROCK DESCRIPTION	GEOLOGICAL UNIT	DCP TEST (AS 1289.6.3.2-1997) Blows per 100 mm		SHEAR VANE TEST		SAMPLES	RL(m AHD)	
							0 5 10 15 20 25	τ (kPa)	τ_v (kPa)				
24				CL-CI	SAND, fine to medium, green	A						24	
23				CI	CLAY, intermediate plasticity, brown sand green						1.35m D		23
22				SC-SM	Silty CLAY, low plasticity, green	B					1.80m		22
21				CL	CLAY, low plasticity, green						2.85m D		21
20				SC	Clayey SAND, fine, yellow	C					3.30m		20
19				CL	Silty CLAY, low plasticity, green						4.20m U50		19
18				OL	Organics						4.65m		18
				CI-CH	Silty CLAY, low plasticity, green						5.70m SS		18
17					Hole Terminated at 6.35 m Target depth A general remark						6.15m		17
16													16
15													15

DGDTP-5.032.LIB.GLB Log IS NZ TEST PIT HAND AUGER 1 DGDTP-5.03.2.GPJ <-DrawingFile> 9/9/2020 16:32 10.01.00.11 Datgel Lab and In Situ Tool - DGD | Lib: DGDTP-5.03.2 2020-09-08 Pjt: DGDTP-DLST 5.03.1 2020-09-05



BOREHOLE LOG

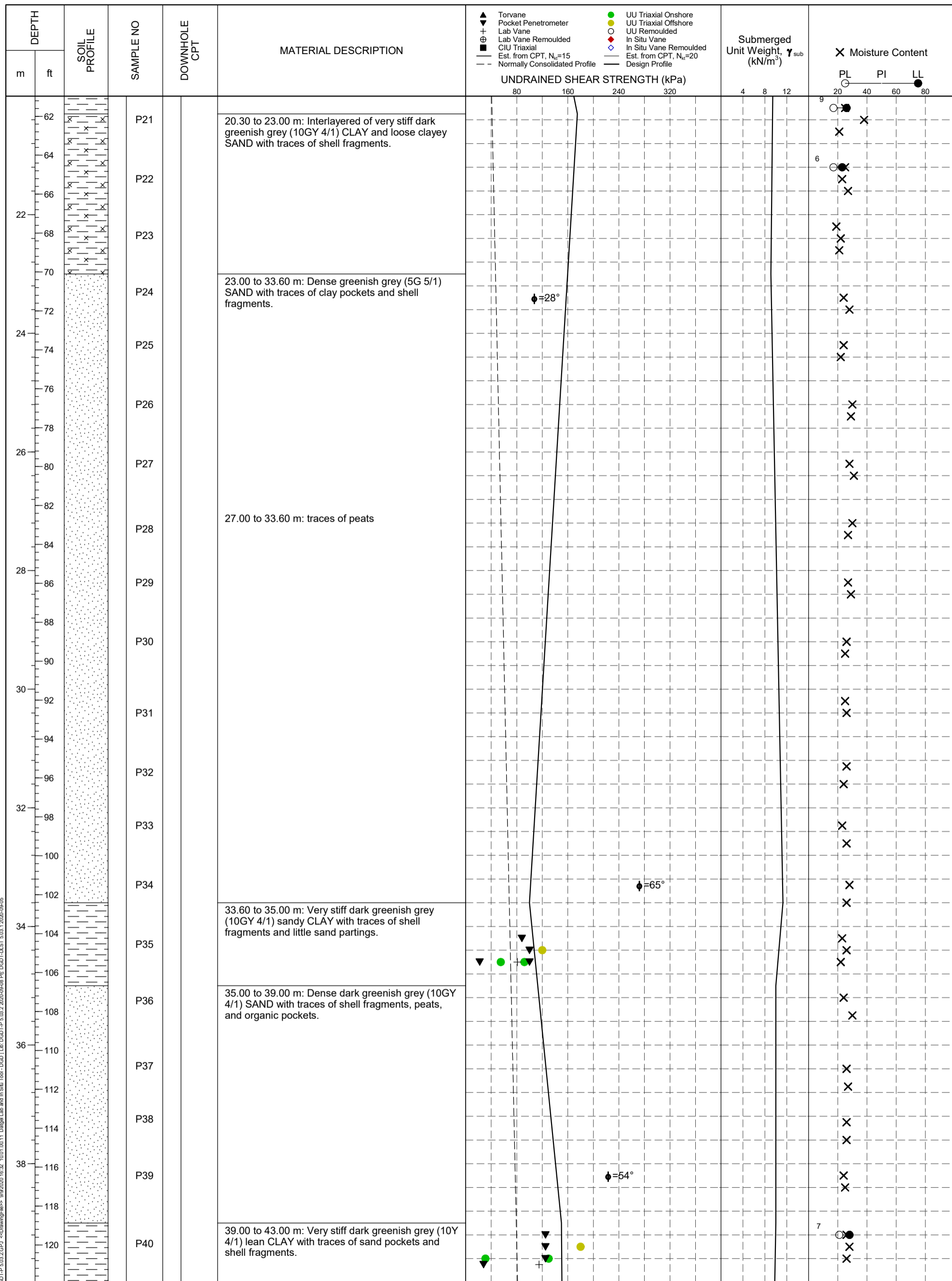
PROJECT Construction Project
 LOCATION Somewhere, World
 POSITION Leg 5
 JOB NO. 5.03.1

BOREHOLE: V-BH Offshore

WATER DEPTH 56.20 m
 COORDINATES EAST 262859.1 m NORTH 6266369.7 m MGA2020 Zone 56
 DATE PERFORMED 1/1/2014 - 2/1/2014
 MADE BY - DATE LB - 2/1/2014
 CHECKED BY - DATE LB - 10/3/2014



D:\DPT\5.03.2\LIB\GLB Log IS OFFSHORE BOREHOLE 1.DDDT.P 5.03.2.GPJ --Drawingfile-- 9/9/2020 16:32 10.01.00.11 Datgel Lab and In Situ Tool - DGD | Lib.DDDT.P 5.03.2.2020-09-08 Pij.DDDT.DLIST 5.03.1.2020-09-05



BOREHOLE LOG

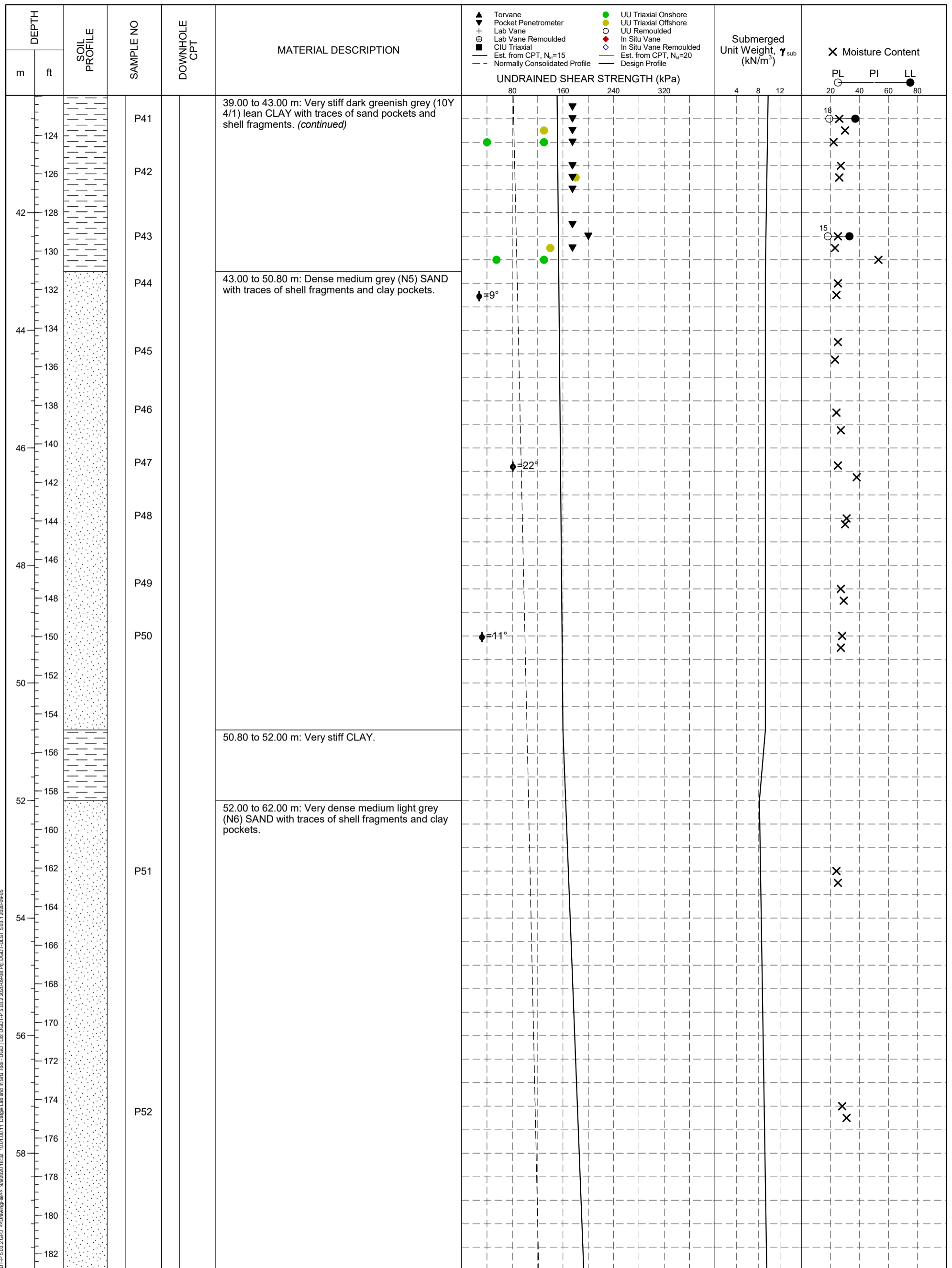
PROJECT Construction Project
 LOCATION Somewhere, World
 POSITION Leg 5
 JOB NO. 5.03.1

BOREHOLE: V-BH Offshore

WATER DEPTH 56.20 m
 COORDINATES EAST 262859.1 m NORTH 6266369.7 m MGA2020 Zone 56
 DATE PERFORMED 1/1/2014 - 2/1/2014
 MADE BY - DATE LB - 2/1/2014
 CHECKED BY - DATE LB - 10/3/2014



DGD.P.5.03.2.LIB.GLB Log IS OFFSHORE BOREHOLE 1 DGD.P.5.03.2.GPJ --Drawingfile-- 9/9/2020 16:32 10.01.00.11 Datgel Lab and In Situ Tool - DGD | Lib.DGD.P.5.03.2.2020-09-08 Pij DGD.TD.LST 5.03.1.2020-09-08



BOREHOLE LOG

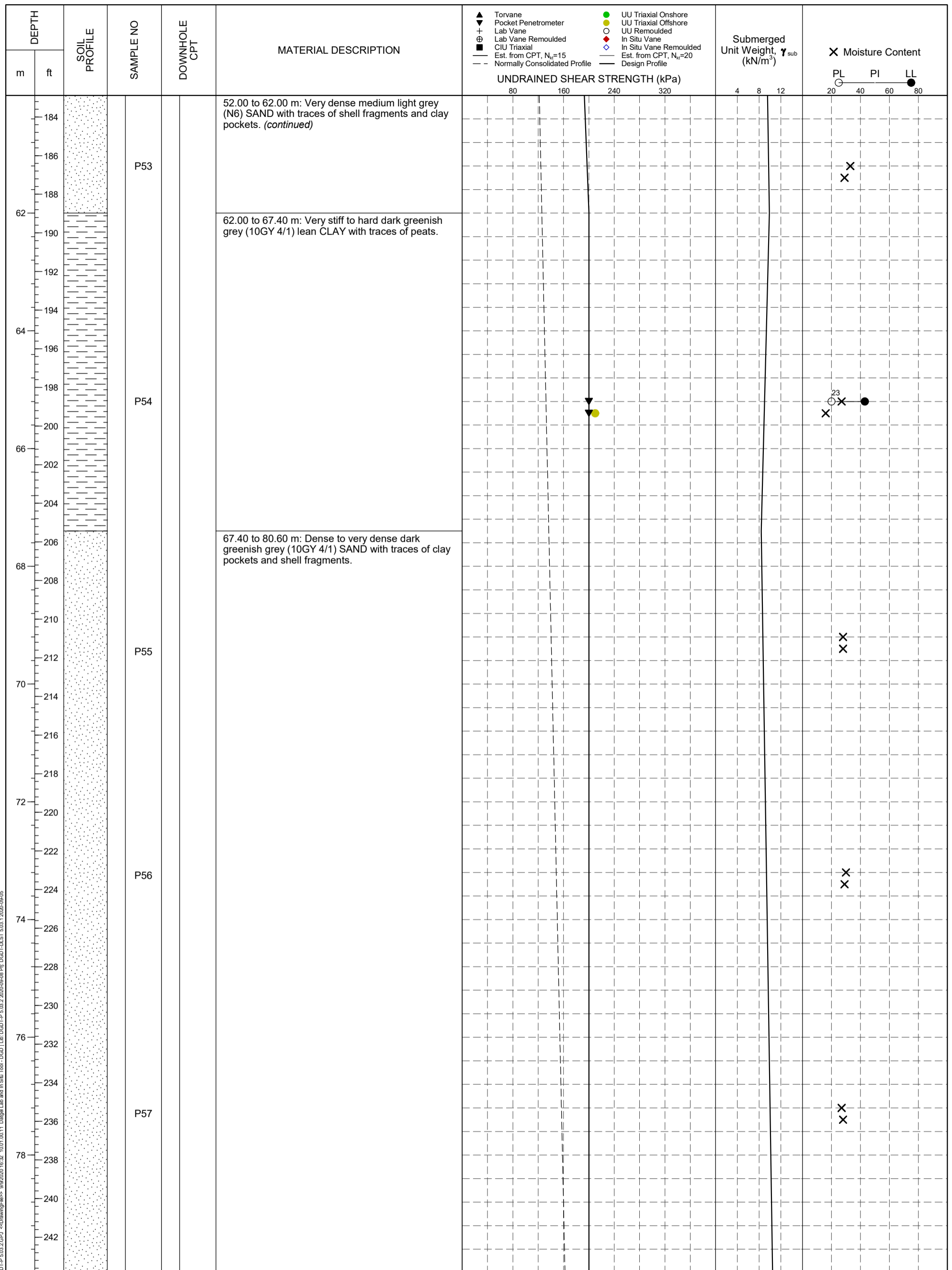
PROJECT Construction Project
 LOCATION Somewhere, World
 POSITION Leg 5
 JOB NO. 5.03.1

BOREHOLE: V-BH Offshore

WATER DEPTH 56.20 m
 COORDINATES EAST 262859.1 m NORTH 6266369.7 m MGA2020 Zone 56
 DATE PERFORMED 1/1/2014 - 2/1/2014
 MADE BY - DATE LB - 2/1/2014
 CHECKED BY - DATE LB - 10/3/2014



DDDP.P.5.03.2.LIB.GLB Log IS OFFSHORE BOREHOLE 1 DDDP.P.5.03.2.GPJ --Drawingfile-- 9/9/2020 16:32 10.01.00.11 Datgel Lab and In Situ Tool - DGD - DGD | Lib.DDDP.P.5.03.2.2020-09-08 Pj | DDDT-DLIST 5.03.1.2020-09-05



DDDT.P.5.03.2.LIB.GLB Log IS OFFSHORE BOREHOLE 1 DDDT.P.5.03.2.GPJ --Drawingfile-- 9/9/2020 16:32 10.01.00.11 Datgel Lab and In Situ Tool - DGD - DGD | Lib.DDDT.P.5.03.2.2020-09-08 PJ | DDDT.DLIST 5.03.1.2020-09-08

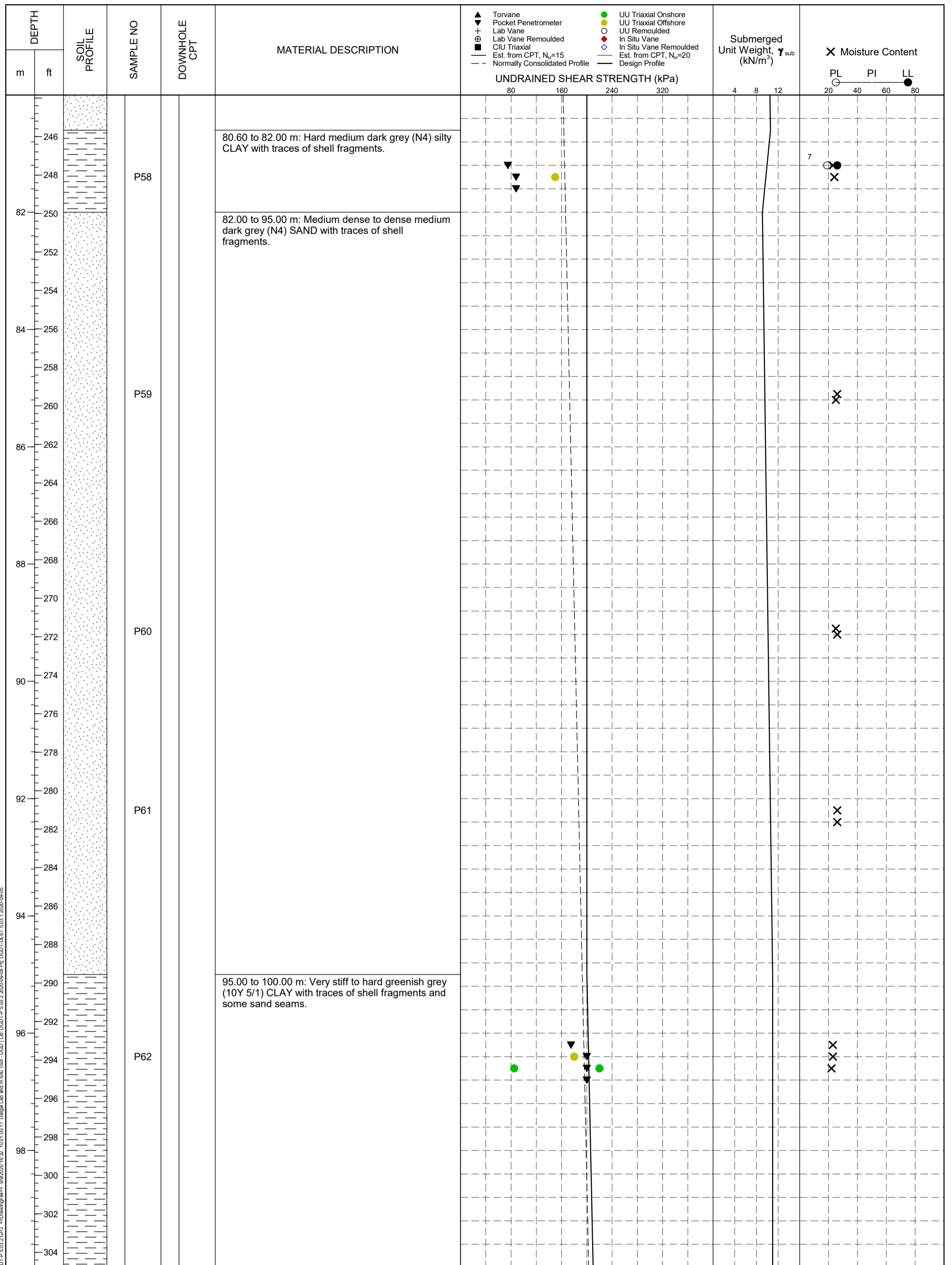
BOREHOLE LOG

PROJECT Construction Project
 LOCATION Somewhere, World
 POSITION Leg 5
 JOB NO. 5.03.1

BOREHOLE: V-BH Offshore

WATER DEPTH 56.20 m
 COORDINATES EAST 262859.1 m NORTH 6266369.7 m MGA2020 Zone 56
 DATE PERFORMED 1/1/2014 - 2/1/2014
 MADE BY - DATE LB - 2/1/2014
 CHECKED BY - DATE LB - 10/3/2014





Hole Terminated at 100.00 m

BOREHOLE LOG

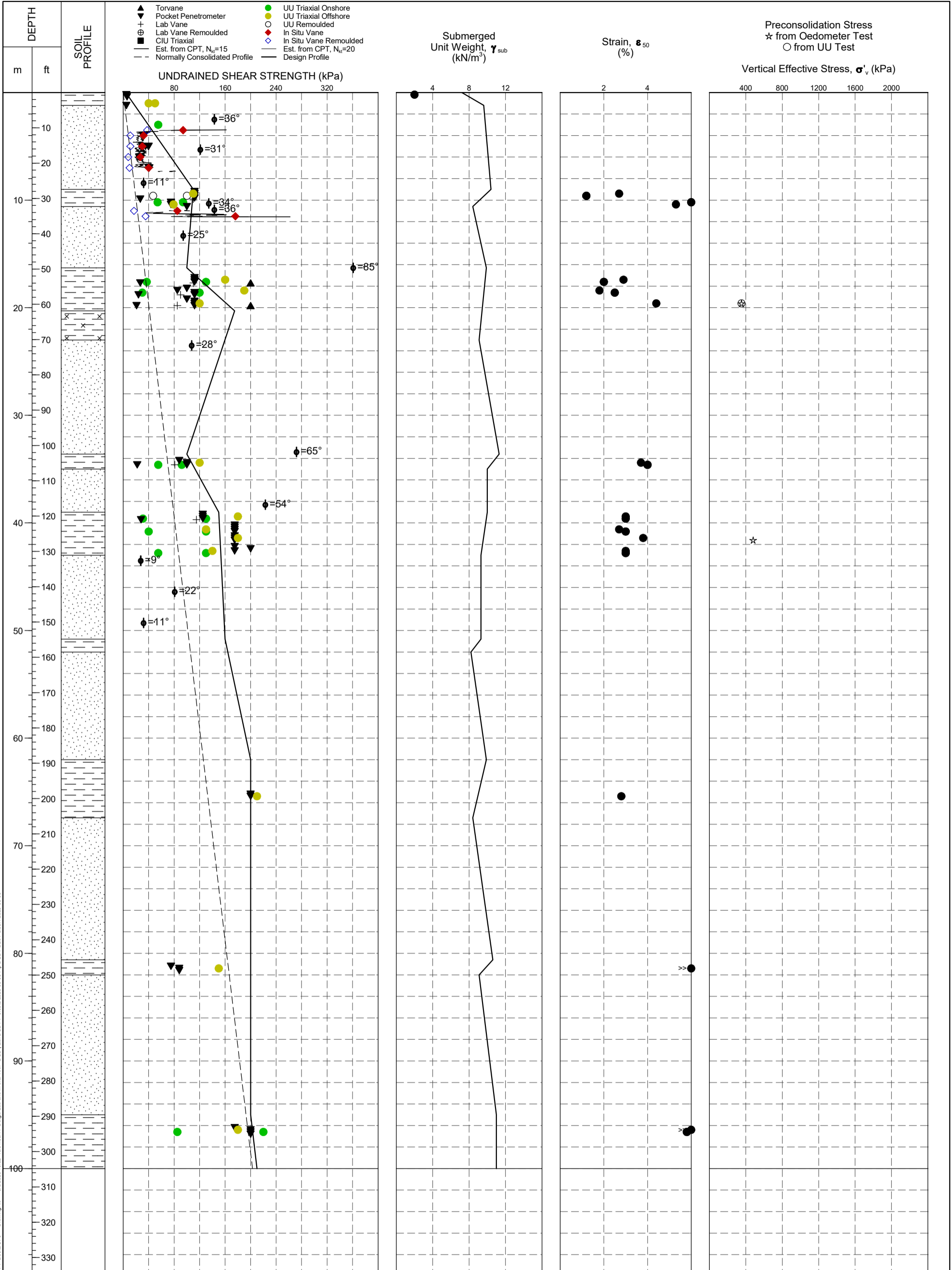
PROJECT Construction Project
 LOCATION Somewhere, World
 POSITION Leg 5
 JOB NO. 5.03.1

BOREHOLE: V-BH Offshore

WATER DEPTH 56.20 m
 COORDINATES EAST 262859.1 m NORTH 6266369.7 m MGA2020 Zone 56
 DATE PERFORMED 1/1/2014 - 2/1/2014
 MADE BY - DATE LB - 2/1/2014
 CHECKED BY - DATE LB - 10/3/2014



D:\DPT\5.03.2\LIB\GLB Log IS OFFSHORE BOREHOLE 1.DDDT.P 5.03.2.GPJ --Drawingfile-- 9/2/2014 16:32:10 10.01.00.11 Datgel Lab and In Situ Tool - DGD - DGD | Lib: DGD.P 5.03.2 2010-09-08 Pj: DGD-T-DLST 5.03.1 2010-09-05



DDDT.P.5.03.2.LIB.GLB Log IS OFFSHORE BOREHOLE.2 DDDT.P.5.03.2.GPJ ->DrawingFile-> 9/9/2020 16:32:10.01.00.11. Datgel Lab and In Situ Tool - DGD | Lib: DDDT.P.5.03.2.2020-09-08 Pjt: DDDT-DLST 5.03.1.2020-09-05

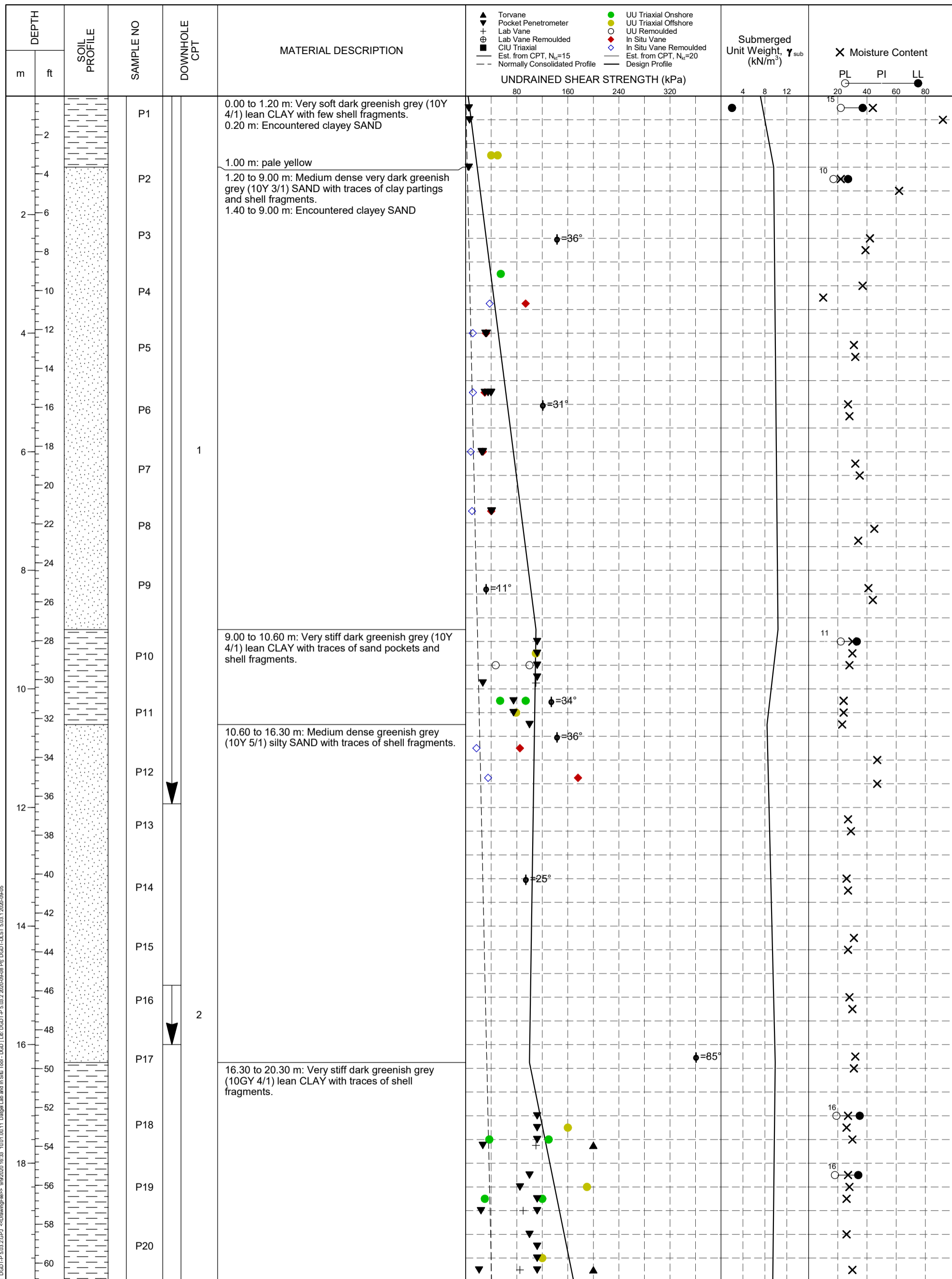
SUMMARY BOREHOLE LOG

PROJECT Construction Project
 LOCATION Somewhere, World
 POSITION Leg 5
 JOB NO. 5.03.1

BOREHOLE: V-BH Offshore

WATER DEPTH 56.20 m
 COORDINATES EAST 262859.1 m NORTH 6266369.7 m MGA2020 Zone 56
 DATE PERFORMED 1/1/2014 - 2/1/2014
 MADE BY - DATE LB - 2/1/2014
 CHECKED BY - DATE LB - 10/3/2014





BOREHOLE LOG

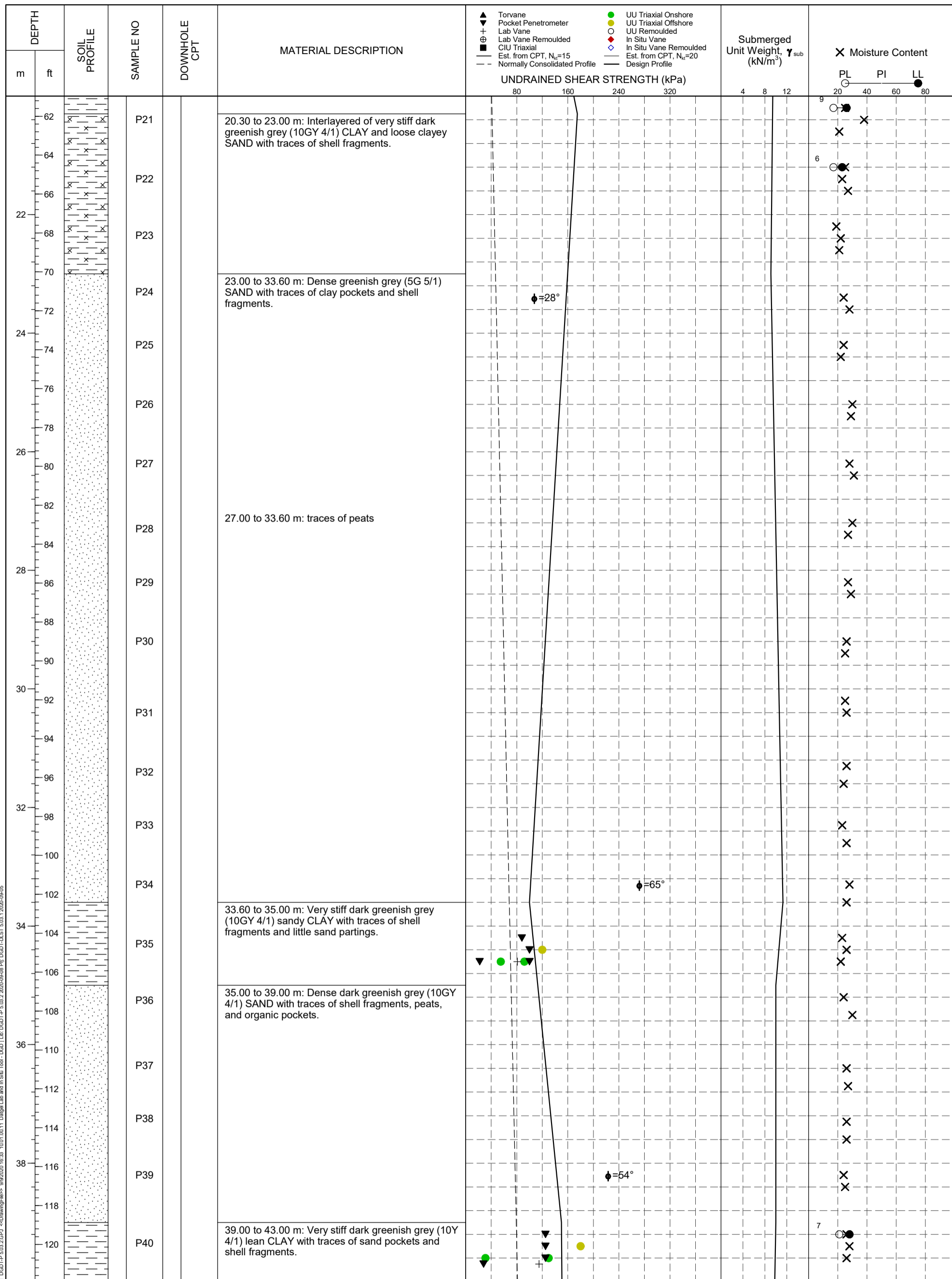
PROJECT Construction Project
 LOCATION Somewhere, World
 POSITION Leg 5
 JOB NO. 5.03.1

BOREHOLE: V-BH Offshore

WATER DEPTH 56.20 m
 COORDINATES EAST 262859.1 m NORTH 6266369.7 m MGA2020 Zone 56
 DATE PERFORMED 1/1/2014 - 2/1/2014
 MADE BY - DATE LB - 2/1/2014
 CHECKED BY - DATE LB - 10/3/2014



DDDP.P.5.03.2.LIB.GLB Log IS OFFSHORE BOREHOLE CPT.1 DDDP.P.5.03.2.LIB.GLB Log IS OFFSHORE BOREHOLE CPT.1 DDDP.P.5.03.2.LIB.GLB Log IS OFFSHORE BOREHOLE CPT.1 DDDP.P.5.03.2.LIB.GLB Log IS OFFSHORE BOREHOLE CPT.1



BOREHOLE LOG

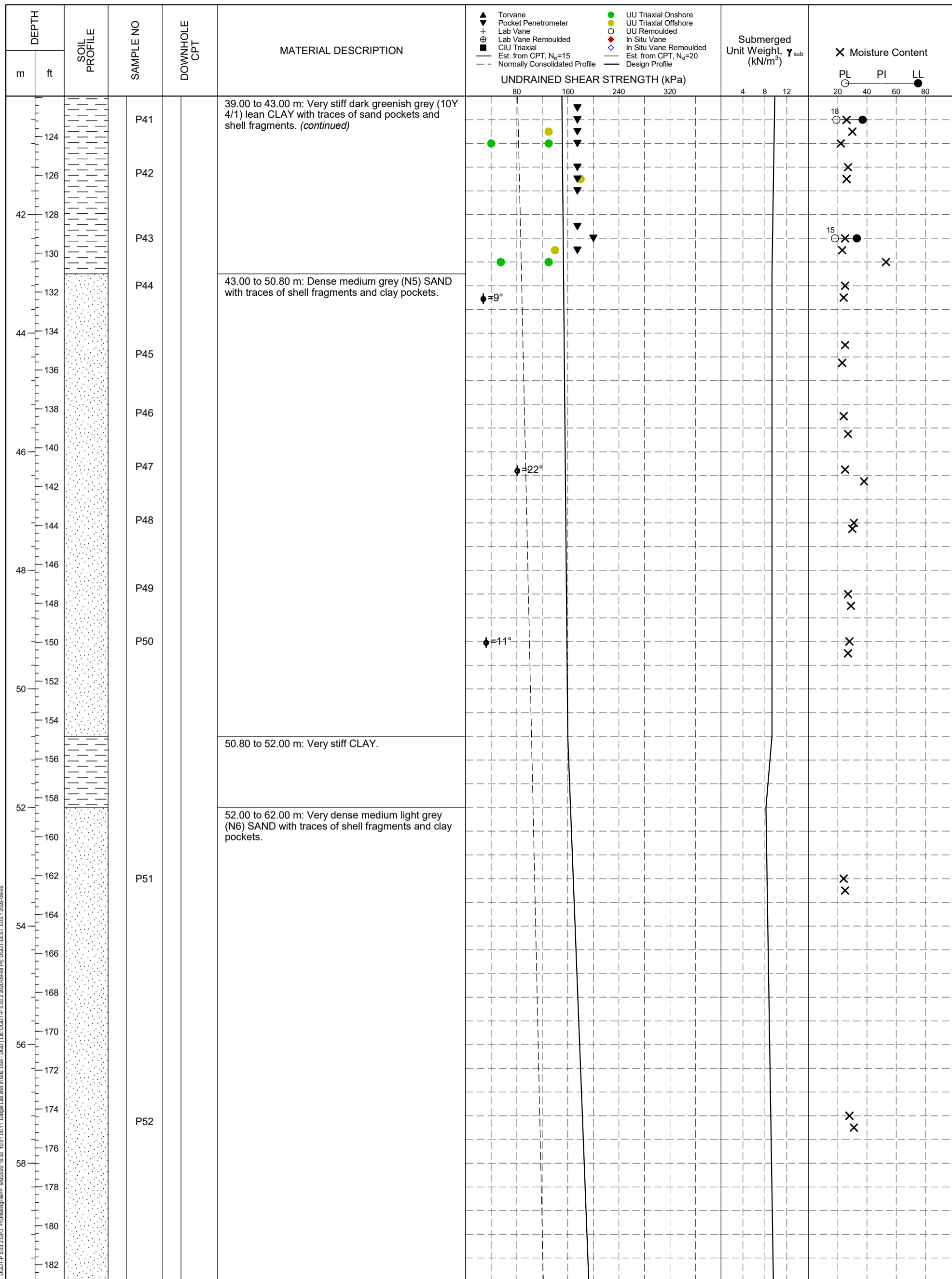
PROJECT Construction Project
 LOCATION Somewhere, World
 POSITION Leg 5
 JOB NO. 5.03.1

BOREHOLE: V-BH Offshore

WATER DEPTH 56.20 m
 COORDINATES EAST 262859.1 m NORTH 6266369.7 m MGA2020 Zone 56
 DATE PERFORMED 1/1/2014 - 2/1/2014
 MADE BY - DATE LB - 2/1/2014
 CHECKED BY - DATE LB - 10/3/2014



DDDT.P.5.03.2.LIB.GLB Log IS OFFSHORE BOREHOLE CPT.1 DDDT.P.5.03.2.LIB.DDDT.P.5.03.2.2020-09-08 P1: DDDT.P.5.03.1.2020-09-05
 9/9/2020 16:33 10/01/00.11 Datgel Lab and In Situ Tool - DSD | Lib: DDDT.P.5.03.2.2020-09-08 P1: DDDT.P.5.03.1.2020-09-05



BOREHOLE LOG

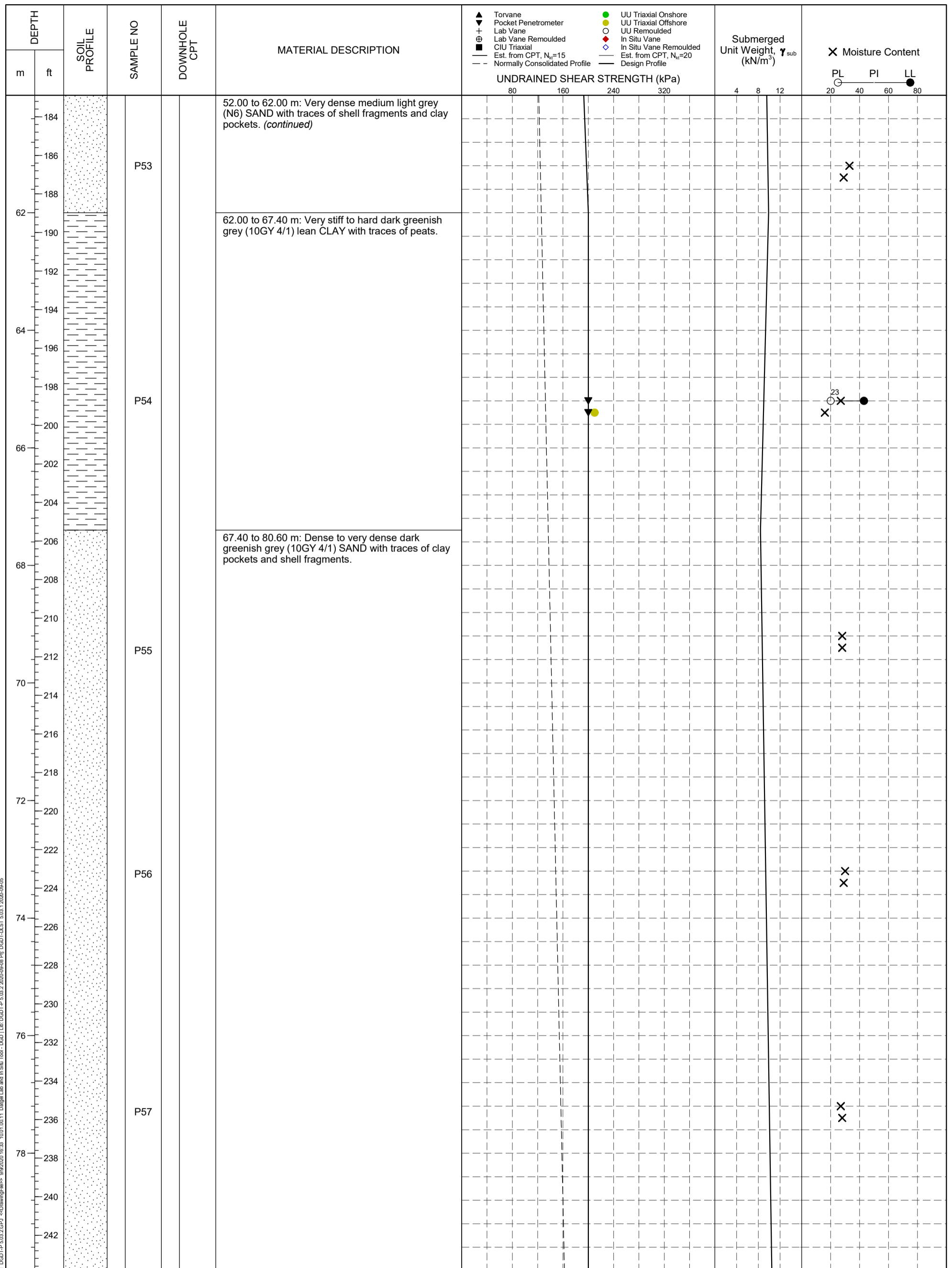
PROJECT Construction Project
 LOCATION Somewhere, World
 POSITION Leg 5
 JOB NO. 5.03.1

BOREHOLE: V-BH Offshore

WATER DEPTH 56.20 m
 COORDINATES EAST 262859.1 m NORTH 6266369.7 m MGA2020 Zone 56
 DATE PERFORMED 1/1/2014 - 2/1/2014
 MADE BY - DATE LB - 2/1/2014
 CHECKED BY - DATE LB - 10/3/2014



DDDP.P.5.03.2.LIB.GLB Log IS OFFSHORE BOREHOLE CPT.1 DDDP.P.5.03.2.GPJ <<DrawingFile>> 9/9/2020 16:33 10/01/00.11 Datgel Lab and In Situ Tool - DSD | Lib | DDDP.P.5.03.2.2020-09-08 P1: DDDP.TA.ST.5.03.1.2020-09-05



BOREHOLE LOG

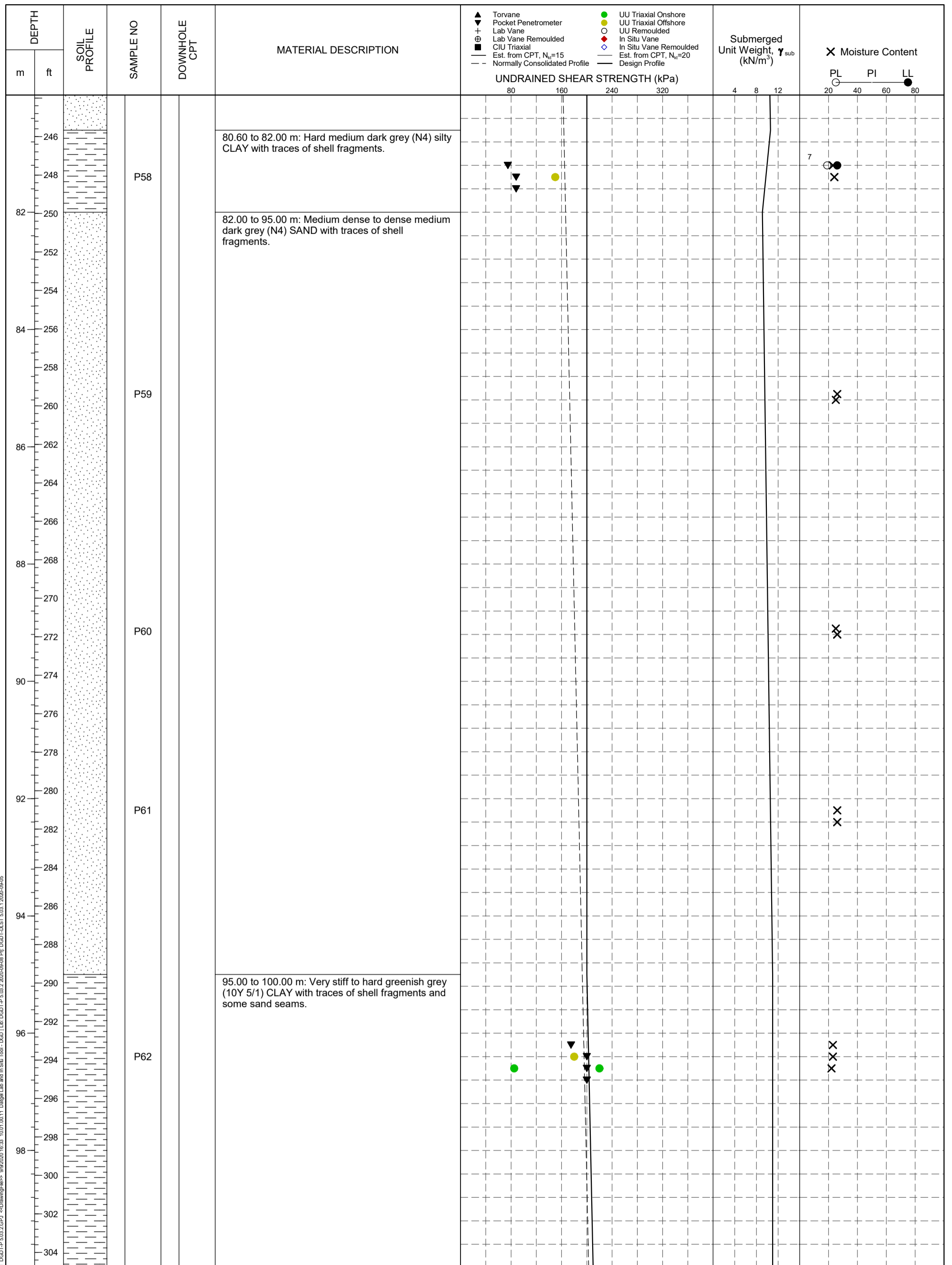
PROJECT Construction Project
 LOCATION Somewhere, World
 POSITION Leg 5
 JOB NO. 5.03.1

BOREHOLE: V-BH Offshore

WATER DEPTH 56.20 m
 COORDINATES EAST 262859.1 m NORTH 6266369.7 m MGA2020 Zone 56
 DATE PERFORMED 1/1/2014 - 2/1/2014
 MADE BY - DATE LB - 2/1/2014
 CHECKED BY - DATE LB - 10/3/2014



DDDP.P.5.03.2.LIB.GLB Log IS OFFSHORE BOREHOLE CPT.1 DDDP.P.5.03.2.GPJ <<DrawingFile>> 9/9/2020 16:38 10/01/00.11 Datgel Lab and In Situ Tool - DSD | Lib: DDDP.P.5.03.2.2020-09-08 P1: DDDP.TA.LST.5.03.1.2020-09-05



Hole Terminated at 100.00 m

BOREHOLE LOG

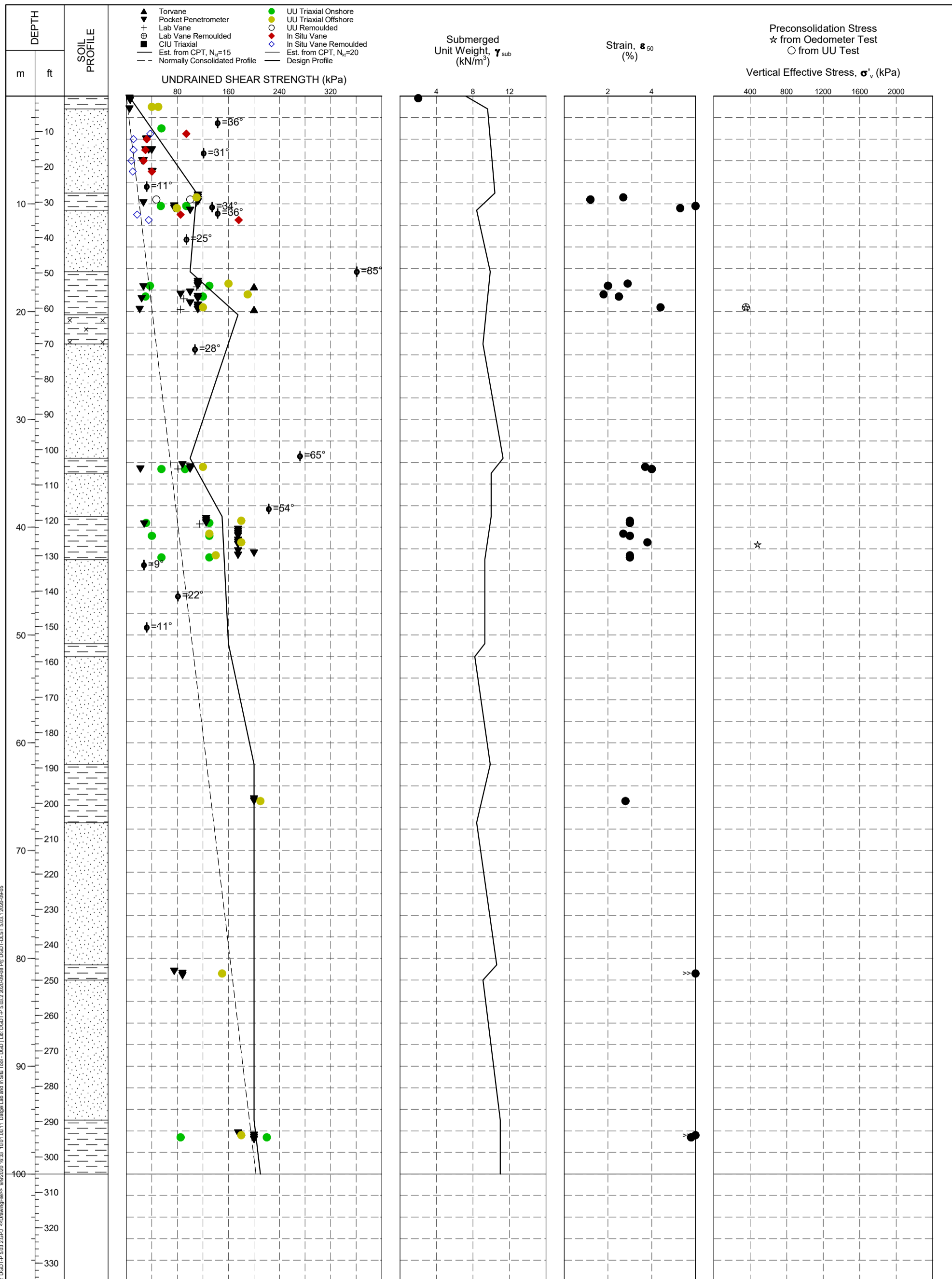
PROJECT Construction Project
 LOCATION Somewhere, World
 POSITION Leg 5
 JOB NO. 5.03.1

BOREHOLE: V-BH Offshore

WATER DEPTH 56.20 m
 COORDINATES EAST 262859.1 m NORTH 6266369.7 m MGA2020 Zone 56
 DATE PERFORMED 1/1/2014 - 2/1/2014
 MADE BY - DATE LB - 2/1/2014
 CHECKED BY - DATE LB - 10/3/2014



DDDP.P.5.03.2.LIB.GLB Log IS OFFSHORE BOREHOLE CPT.1 DDDP.P.5.03.2.GPJ <<DrawingFile>> 9/9/2020 16:33 10/01/00.11 Datgel Lab and In Situ Tool - DSD | Lib: DDDP.P.5.03.2.2020-09-08 Pj: DDDP.TA.ST.5.03.1.2020-09-05



SUMMARY BOREHOLE LOG

BOREHOLE: V-BH Offshore



PROJECT Construction Project
 LOCATION Somewhere, World
 POSITION Leg 5
 JOB NO. 5.03.1

WATER DEPTH 56.20 m
 COORDINATES EAST 262859.1 m NORTH 6266369.7 m MGA2020 Zone 56
 DATE PERFORMED 1/1/2014 - 2/1/2014
 MADE BY - DATE LB - 2/1/2014
 CHECKED BY - DATE LB - 10/3/2014

DDDT.P.5.03.2.LIB.GLB Log IS OFFSHORE BOREHOLE CPT 2 DDDT.P.5.03.2.2020-09-08 P1: DDDT.DAT.ST.5.03.1.2020-09-05
 9/2020 16:33 10/01/00.11 Datgel Lab and In Situ Tool - DGD | Lib: DDDT.P.5.03.2.2020-09-08 P1: DDDT.DAT.ST.5.03.1.2020-09-05









LOCATION:		SPT (N) / mm		WEATHERING GRADE	REDUCED LEVEL (m)	DEPTH (m)	SAMPLE TYPE	GRAPHIC LOG	THICKNESS (m)	GEOLOGICAL CLASSIFICATION	BS SOIL CLASSIFICATION	BOREHOLE No.
Somewhere, World Old Police Academy (Near Blk 26C)												ST/1090A
FIELD & LABORATORY DATA & TESTS REPORTED ELSEWHERE		SPT N VALUE										EASTING: 29275.7 m NORTHING: 29095.9 m MGA2020 Zone 56 REDUCED LEVEL: 121.38 m AHD
		10	20	30	40	50	60	70	80	90		DESCRIPTION
DAILY WATER TABLE READING												Trial pit (1.0x0.5x1.0 m), Hand auger (1.0-3.0 m), Firm Brown Sandy SILT with hard cores (FILL)
DATE	READING (m bgl)											Firm to very stiff Yellowish brown mottled reddish brown Sandy CLAY with gravel, Residual soil (BUKIT TIMAH GRANITE)
1/1/2012	0.75											TW1-1 (MC=20%, $p_w=1.79 \text{ Mg/m}^3$, $p_s=2.69 \text{ Mg/m}^3$, SAND=29% SILT=35% CLAY=36%, LL=22%, PL=19%, PI=3%, $s_{u(CU)}=150 \text{ kPa}$, $c_{cu}=0 \text{ kPa}$, $\phi_{cu}=35^\circ$, $C_c=0.025$, $e_p=1.032$)
1/1/2012	0.90											TW1-2 (GRAVEL=1% SAND=91% SILT=4%, LL=35%, PL=22%, PI=13%, $C_c=0.024$, $e_p=0.926$)
												TW1 (COBBLES=13% GRAVEL=16% SAND=57% SILT=2%, $e_p=1$)
												Stiff Yellowish brown mottled reddish brown Sandy SILT with gravel, Residual soil (BUKIT TIMAH GRANITE)
												TW2-1 (LL=25%, PL=30%, PI=-5%, $c_{cd}=0 \text{ kPa}$, $\phi_{cd}=30.5^\circ$, $e_p=1.34$)
												TW2-2 (MC=35%, $p_w=1.73 \text{ Mg/m}^3$, SAND=23% SILT=46% CLAY=31%, LL=66%, PL=40%, PI=26%, $p_c=300 \text{ kPa}$, $m_v=0.116 \text{ m}^2/\text{MN}$, $C_c=0.302 \text{ kPa}$, $C_c=0.026$, $e_p=1.2$)
												TW3-3 (MC=37%, $p_w=1.74 \text{ Mg/m}^3$, $p_s=2.68 \text{ Mg/m}^3$, SAND=16% SILT=71% CLAY=13%, LL=62%, PL=36%, PI=26%, $e_p=1.012$)
												TW4-1 (SAND=71% FINES=29%, LL=30%, PL=21%, PI=9%, $s_{u(CU)}=45 \text{ kPa}$, $c_{cu}=13 \text{ kPa}$, $\phi_{cu}=33^\circ$, $e_p=0.877$)
												TW4-4 (MC=38%, $p_w=1.75 \text{ Mg/m}^3$, SAND=17% SILT=60% CLAY=23%, LL=65%, PL=38%, PI=27%)
												TW4-1 ($s_{u(w)}=134 \text{ kPa}$)
												TW5-1 (SAND=36% FINES=64%, LL=23%, PL=18%, PI=5%, $c_{cd}=0 \text{ kPa}$, $\phi_{cd}=30^\circ$)
												TW5-5 (MC=38%, $p_w=1.78 \text{ Mg/m}^3$, $p_s=2.70 \text{ Mg/m}^3$, SAND=25% SILT=57% CLAY=18%, LL=67%, PL=37%, PI=30%)
												TW6-6 (MC=35%, $p_w=1.71 \text{ Mg/m}^3$, SAND=28% SILT=57% CLAY=15%, LL=65%, PL=39%, PI=26%)
												TW7-7 (MC=40%, $p_w=1.74 \text{ Mg/m}^3$, $p_s=2.69 \text{ Mg/m}^3$, SAND=35% SILT=52% CLAY=13%, LL=69%, PL=39%, PI=30%)
												TW8-1 (SAND=86% FINES=14%, LL=33%, PL=23%, PI=11%, $c_{cd}=10 \text{ kPa}$, $\phi_{cd}=36^\circ$)
												TW8-8 (MC=37%, $p_w=1.75 \text{ Mg/m}^3$, SAND=17% SILT=66% CLAY=17%, LL=58%, PL=38%, PI=20%, $p_c=280 \text{ kPa}$, $m_v=0.141 \text{ m}^2/\text{MN}$, $C_c=0.348 \text{ kPa}$, $C_c=0.026$, $e_p=1.17$)
												TW9-9 (MC=34%, $p_w=1.71 \text{ Mg/m}^3$, $p_s=2.71 \text{ Mg/m}^3$, SAND=43% SILT=46% CLAY=11%, LL=60%, PL=36%, PI=24%)
												TW10-1 (GRAVEL=100% SAND=175%, LL=34%, PL=21%, PI=13%, $s_{u(CU)}=80 \text{ kPa}$, $c_{cu}=0 \text{ kPa}$, $\phi_{cu}=28^\circ$)
												TW10-10 (MC=38%, $p_w=1.77 \text{ Mg/m}^3$, SAND=28% SILT=57% CLAY=16%, LL=60%, PL=39%, PI=21%)
												TW10-1 ($s_{u(w)}=75 \text{ kPa}$)
												TW11-1 (GRAVEL=94% SAND=58%, $s_{u(CU)}=56 \text{ kPa}$, $c_{cu}=0 \text{ kPa}$, $\phi_{cu}=38^\circ$)
												TW11-11 (MC=37%, $p_w=1.77 \text{ Mg/m}^3$, $p_s=2.68 \text{ Mg/m}^3$, SAND=36% SILT=53% CLAY=11%, LL=53%, PL=34%, PI=19%)
												TW11-1 ($c_{cd}=0 \text{ kPa}$, $\phi_{cd}=31^\circ$)
												TW12-12 (MC=35%, $p_w=1.81 \text{ Mg/m}^3$, SAND=43% SILT=46% CLAY=11%, LL=58%, PL=37%, PI=21%, $p_c=370 \text{ kPa}$, $m_v=0.096 \text{ m}^2/\text{MN}$, $C_c=0.315 \text{ kPa}$, $C_c=0.029$, $e_p=1.04$)
												TW13-1 (GRAVEL=85% SAND=136%, $s_{u(CU)}=98 \text{ kPa}$, $c_{cu}=0 \text{ kPa}$, $\phi_{cu}=30^\circ$)
												TW13-13 (MC=37%, $p_w=1.77 \text{ Mg/m}^3$, $p_s=2.70 \text{ Mg/m}^3$, SAND=36% SILT=51%)
BORING TYPE:	RO	FRACTURE PER METRE		RQD %	SCR %	TCR %	WEATHERING GRADE	<ul style="list-style-type: none"> - Sample - Pressuremeter Test (PRM) - Core Run - Vane Shear Test (VST) 	<ul style="list-style-type: none"> - Permeability / Packer Test (PKT) - SPT N Value - Attempt TW/P/MZ/U - Piston Sample - Thin Wall Push 	<ul style="list-style-type: none"> M - Mazier U - Thick Wall Open Drive C - Core Run SPTLS - SPT Liner W - Water 	<ul style="list-style-type: none"> PZS - Cassagrande Piezometer WSP - Water Standpipe 	
CLIENT:		Datgel		LOG OF BORING GEOTECHNICAL STUDY - FIELD INVESTIGATION								
PROJECT:		Construction Project		LOGGED BY:				DATE OF FIELD WORK: 13/4/2010 - 16/4/2010				
CONTRACTOR:		Contractor 1		GDMS ID / PROJECT ID 5.03.1 / 5.03.1		CHECKED BY:		DATA QUALITY RATING D		SHEET No.: 1 / 3		

DGDTP-5.032 LUB.GLB Log IS SG BOREHOLE 1 DGDTP-5.032.GP1 <DrawingFile> 99/2020-16.33 10.01.00.11 Datgel Lab and in Situ Tool - DGD - DGD Lib: DGDTP-5.032.2 2020-09-08 Proj: DGDTP-5.031 2020-09-05


LOCATION:		SPT (N) / mm		WEATHERING GRADE	REDUCED LEVEL (m)	DEPTH (m)	SAMPLE TYPE	IN SITU TEST	GRAPHIC LOG	THICKNESS (m)	GEOLOGICAL CLASSIFICATION	BS SOIL CLASSIFICATION	BOREHOLE No.							
Somewhere, World Old Police Academy (Near Blk 26C)													ST/1090A							
FIELD & LABORATORY DATA & TESTS REPORTED ELSEWHERE		SPT N VALUE		DESCRIPTION																
		10	20	30	40	50	60	70	80	90	EASTING: 29275.7 m NORTHING: 29095.9 m MGA2020 Zone 56 REDUCED LEVEL: 121.38 m AHD									
				CLAY=13%, LL=55%, PL=34%, PI=21%) TW13-1 ($s_w=78$ kPa) TW14-14 (MC=49%, $p_w=1.68$ Mg/m ³ , SAND=88% SILT=1%, LL=60%, PL=39%, PI=21%) TW15-1 (SAND=92% SILT=1%, $c_{cd}=12$ kPa, $\phi_{cd}=32^\circ$) TW15-15 (MC=49%, $p_w=1.72$ Mg/m ³ , $p_w=2.72$ Mg/m ³ , SAND=4% SILT=78% CLAY=18%, LL=69%, PL=40%, PI=29%) TW16-1 (SAND=99% SILT=0%, $s_{u(cu)}=110$ kPa, $c'_{cu}=0$ kPa, $\phi_{cu}=31^\circ$) TW16-16 (MC=51%, $p_w=1.67$ Mg/m ³ , SAND=5% SILT=81% CLAY=14%, LL=69%, PL=39%, PI=30%) TW16-1 ($s_w=112$ kPa) TW17-17 (MC=51%, $p_w=1.71$ Mg/m ³ , $p_w=2.69$ Mg/m ³ , SAND=4% SILT=78% CLAY=18%, LL=65%, PL=38%, PI=27%) Stiff Yellowish brown mottled reddish brown Sandy SILT with gravel, Residual soil (BUKIT TIMAH GRANITE) (continued) TW18-1 (GRAVEL=44% SAND=50% SILT=0%, $s_{u(cu)}=67$ kPa, $c'_{cu}=0$ kPa, $\phi_{cu}=36^\circ$) TW18-18 (MC=31%, $p_w=1.75$ Mg/m ³ , SAND=37% SILT=53% CLAY=10%, LL=52%, PL=33%, PI=19%) TW18-1 (GRAVEL=97% SAND=156%, $c'_{cd}=0$ kPa, $\phi_{cd}=33^\circ$) TW19-1 (SAND=72% SILT=7%, $s_w=69$ kPa) TW19-19 (MC=31%, $p_w=1.83$ Mg/m ³ , $p_w=2.69$ Mg/m ³ , SAND=30% SILT=60% CLAY=10%, LL=50%, PL=35%, PI=15%) TW20-20 (MC=33%, $p_w=1.81$ Mg/m ³ , SAND=28% SILT=65% CLAY=8%, LL=50%, PL=33%, PI=17%) TW21-1 (SAND=71% SILT=8%, $s_{u(cu)}=36$ kPa, $c'_{cu}=19.91$ kPa, $\phi_{cu}=35^\circ$) TW21-21 (MC=30%, $p_w=1.86$ Mg/m ³ , $p_w=2.71$ Mg/m ³ , SAND=35% SILT=55% CLAY=10%, LL=50%, PL=31%, PI=19%) TW22-1 (GRAVEL=102% SAND=214%, $s_{u(cu)}=98$ kPa, $c'_{cu}=0$ kPa, $\phi_{cu}=32^\circ$) TW22-22 (MC=34%, $p_w=1.81$ Mg/m ³ , SAND=31% SILT=59% CLAY=10%, LL=48%, PL=35%, PI=13%) TW22-1 ($s_w=93$ kPa) TW23-23 (MC=29%, $p_w=1.81$ Mg/m ³ , $p_w=2.70$ Mg/m ³ , SAND=39% SILT=52% CLAY=9%, LL=45%, PL=33%, PI=12%) TW24-1 (GRAVEL=95% SAND=19%, $s_{u(cu)}=110$ kPa, $c'_{cu}=0$ kPa, $\phi_{cu}=35^\circ$) TW24-24 (MC=29%, $p_w=1.81$ Mg/m ³ , SAND=35% SILT=55% CLAY=10%, LL=46%, PL=35%, PI=11%) TW25-25 (MC=33%, $p_w=1.78$ Mg/m ³ , $p_w=2.71$ Mg/m ³ , SAND=30% SILT=57% CLAY=13%, LL=48%, PL=35%, PI=13%) TW26-1 (GRAVEL=101% SAND=136%, $s_{u(cu)}=100$ kPa, $c'_{cu}=0$ kPa, $\phi_{cu}=33^\circ$) TW26-26 (MC=31%, $p_w=1.84$ Mg/m ³ , SAND=32% SILT=57% CLAY=11%, LL=47%, PL=34%, PI=13%) TW26-1 ($s_w=133$ kPa) MZ1-1 (MC=35%, $p_w=1.85$ Mg/m ³ , $p_w=2.69$ Mg/m ³ , SAND=36% SILT=46% CLAY=18%, LL=47%, PL=34%, PI=13%) TW27-1 (SAND=72% SILT=4%, $s_{u(cu)}=92$ kPa, $c'_{cu}=0$ kPa, $\phi_{cu}=35^\circ$) TW27-27 (MC=33%, $p_w=1.83$ Mg/m ³ , SAND=32% SILT=55% CLAY=14%, LL=51%, PL=33%, PI=18%) MZ2-1 (GRAVEL=93% SAND=19%, $s_w=76$ kPa) MZ2-2 (MC=28%, $p_w=1.82$ Mg/m ³ , $p_w=2.68$ Mg/m ³ , SAND=48% SILT=42% CLAY=10%, LL=51%, PL=36%, PI=15%) MZ2-1 ($s_{u(cu)}=78$ kPa, $c'_{cu}=29$ kPa, $\phi_{cu}=30^\circ$) MZ3-1 (GRAVEL=99% SAND=117%, $s_{u(cu)}=100$ kPa, $c'_{cu}=0$ kPa, $\phi_{cu}=35^\circ$) MZ3-3 (MC=32%, $p_w=1.87$ Mg/m ³ , SAND=40% SILT=48% CLAY=12%, LL=50%, PL=34%, PI=16%) MZ3-1 ($s_w=66$ kPa) TW28-28 (MC=25%, $p_w=1.85$ Mg/m ³ , $p_w=2.70$ Mg/m ³ , SAND=58% SILT=32% CLAY=10%, LL=47%, PL=33%, PI=14%)																
BORING TYPE: RO		FRACTURE PER METRE		RQD %		SCR %		TCR %		WEATHERING GRADE		⊗ - Sample ⊙ - Permeability / Packer Test (PKT) ⊕ - Pressuremeter Test (PRM) ⊖ - SPT N Value ⊗ - Core Run ⊕ - Attempt TW/P/MZ/U ⊕ - Vane Shear Test (VST) ⊕ - Piston Sample ⊕ - Thin Wall Push		M - Mazier U - Thick Wall Open Drive C - Core Run SPTLS - SPT Liner W - Water PZS - Cassagrande Piezometer WSP - Water Standpipe						
CLIENT: Datgel		LOG OF BORING GEOTECHNICAL STUDY - FIELD INVESTIGATION																		
PROJECT: Construction Project		LOGGED BY:				DATE OF FIELD WORK: 13/4/2010 - 16/4/2010														
CONTRACTOR: Contractor 1		GDMS ID / PROJECT ID: 5.03.1 / 5.03.1		CHECKED BY:		DATA QUALITY RATING: D		SHEET No.: 2 / 3												

DGDTP-5.032 LUB.GLB Log IS SG BOREHOLE 1 DGDTP-5.032.GP1 <DrawingFile> 992020 16.33 10.01.00.11 Datgel Lab and in Situ Tool - DGD - DGD LUB.DGDTP-5.032.2020-09-08 Pfl DGDTP-5.031 2020-09-05




LOCATION:		SPT N VALUE		SPT (N) / mm	WEATHERING GRADE	REDUCED LEVEL (m)	DEPTH (m)	SAMPLE TYPE	IN SITU TEST	GRAPHIC LOG	THICKNESS (m)	GEOLOGICAL CLASSIFICATION	BS SOIL CLASSIFICATION	BOREHOLE No.	
FIELD & LABORATORY DATA & TESTS REPORTED ELSEWHERE		10	20											30	40	50	60	70	80	90	ST/1090A
														DESCRIPTION	
Somewhere, World Old Police Academy (Near Blk 26C)														EASTING: 29275.7 m NORTHING: 29095.9 m MGA2020 Zone 56 REDUCED LEVEL: 121.38 m AHD	
														MZ4-4 (MC=26%, $p_u=1.87 \text{ Mg/m}^3$, SAND=47% SILT=43% CLAY=10%, LL=51%, PL=36%, PI=15%) Hole Terminated at 35.35 m	
							42								
							44								
							46								
							48								
							50								
							52								
							54								
							56								
							58								
							60								
BORING TYPE: RO		FRACTURE PER METRE 2 4 8 16						 - Sample  - Pressuremeter Test (PRM)  - Core Run  - Vane Shear Test (VST)		 - Permeability / Packer Test (PKT)  - SPT N Value  - Attempt TW/P/MZ/U P - Piston Sample TW - Thin Wall Push		M - Mazier U - Thick Wall Open Drive C - Core Run SPTLS - SPT Liner W - Water PZS - Cassagrande Piezometer WSP - Water Standpipe			
DIAMETER (mm):		RQD %		SCR %		TCR %									
															
CLIENT: Datgel								LOG OF BORING GEOTECHNICAL STUDY - FIELD INVESTIGATION							
PROJECT: Construction Project								LOGGED BY:				DATE OF FIELD WORK: 13/4/2010 - 16/4/2010			
CONTRACTOR: Contractor 1				GDMS ID / PROJECT ID 5.03.1 / 5.03.1				CHECKED BY:		DATA QUALITY RATING D		SHEET No.: 3 / 3			

















DGD-T-P-5.032-LIB-GLB-Log-18-03-2010-16-33-10.01.00.11-Datgel Lab and In-Situ Tool-DGD-DGD-T-P-5.032-2020-09-08-Pl-DGD-T-P-5.031-2020-09-05

LOCATION: Somewhere, World MarinaCoastal Dr (LP-2)			SPT (N) / mm	WEATHERING GRADE	REDUCED LEVEL (m)	DEPTH (m)	SAMPLE TYPE IN SITU TEST	GRAPHIC LOG	THICKNESS (m)	GEOLOGICAL CLASSIFICATION	BS SOIL CLASSIFICATION	BOREHOLE No. ST/1162B/VST_PZW					
FIELD & LABORATORY DATA & TESTS REPORTED ELSEWHERE	SPT N VALUE											EASTING: 29769.4 m NORTHING: 29018.7 m MGA2020 Zone 56 REDUCED LEVEL: 103.98 m AHD					
	10	20											30	40	50	60	70	80	90	DESCRIPTION
<p>96.98</p> <p>7.00 FILL CS</p> <p>Loose to medium dense Yellowish brown mottled with light grey Clayey SAND with gravel (FILL)</p> <p>SPT1 (LL=55%, PL=38%, PI=17%)</p> <p>SPT2 (LL=47%, PL=32%, PI=15%)</p>																	
<p>90.98</p> <p>6.00 FILL SC</p> <p>Medium dense Light grey Silty SAND with seashell fragments (FILL)</p> <p>SPT8 (LL=58%, PL=28%, PI=30%)</p> <p>SPT9 (LL=53%, PL=21%, PI=32%)</p> <p>SPT10 (LL=42%, PL=32%, PI=10%)</p>																	
<p>89.98</p> <p>1.00 FILL SM</p> <p>Soft to firm Bluish grey Marine CLAY trace of fine sands, occasional decomposed woods and shell fragments (KALLANG Marine)</p> <p>SPT11 (LL=45%, PL=38%, PI=7%)</p> <p>SPT12 (LL=52%, PL=33%, PI=19%)</p>																	
<p>VST1 15.50 m 44.0 kPa</p> <p>VST2 16.50 m 26.0 / 7.0 kPa</p> <p>VST3 17.50 m 23.0 / 6.0 kPa</p> <p>VST4 18.50 m 20.0 / 6.0 kPa</p> <p>VST5 19.50 m 20.0 / 4.0 kPa</p>			<p>2</p> <p>4</p> <p>8</p> <p>16</p> <p>20</p> <p>40</p> <p>60</p> <p>80</p> <p>20</p> <p>40</p> <p>60</p> <p>80</p> <p>20</p> <p>40</p> <p>60</p> <p>80</p>			<p>7/300</p> <p>6/300</p> <p>4/300</p> <p>5/300</p> <p>6/300</p> <p>5/300</p> <p>11/300</p> <p>8/300</p> <p>16/300</p> <p>19/300</p> <p>24/300</p> <p>6/300</p>			<p>I</p> <p>II</p> <p>III</p> <p>IV</p> <p>V</p> <p>VI</p>			<p>0.00</p> <p>2</p> <p>3.00</p> <p>3.45</p> <p>4</p> <p>4.00</p> <p>4.45</p> <p>5.00</p> <p>5.45</p> <p>6</p> <p>6.00</p> <p>6.45</p> <p>7</p> <p>7.00</p> <p>7.45</p> <p>8</p> <p>8.00</p> <p>8.45</p> <p>9</p> <p>9.00</p> <p>9.45</p> <p>10</p> <p>10.00</p> <p>10.45</p> <p>11</p> <p>11.00</p> <p>11.45</p> <p>12</p> <p>12.00</p> <p>12.45</p> <p>13</p> <p>13.00</p> <p>13.45</p> <p>14</p> <p>14.00</p> <p>14.45</p> <p>16</p> <p>18</p> <p>20</p>			<p>Mazier</p> <p>Thick Wall</p> <p>Open Drive</p> <p>Core Run</p> <p>SPT Liner</p> <p>Water</p> <p>Water</p> <p>Cassagrande</p> <p>Piezometer</p> <p>Water</p> <p>Standpipe</p>		
<p>BORING TYPE: RO</p> <p>DIAMETER (mm):</p> 			<p>WEATHERING GRADE</p>			<p>WEATHERING GRADE</p>			<p>LOG OF BORING GEOTECHNICAL STUDY - FIELD INVESTIGATION</p>								
<p>CLIENT: Datgel</p>						<p>PROJECT: Construction Project</p>			<p>LOGGED BY:</p>			<p>DATE OF FIELD WORK: 15/3/2010 - 27/3/2010</p>					
<p>CONTRACTOR: Contractor 1</p>						<p>GDMS ID / PROJECT ID 5.03.1 / 5.03.1</p>			<p>CHECKED BY:</p>			<p>DATA QUALITY RATING D</p>			<p>SHEET No.: 1 / 3</p>		

DGD/P-5.032 LUB.GLB Log IS SG BOREHOLE 1 DGD/P-5.032.GP1 -> Drawing File -> 99/2020 16.33 10.01.00.11 Datgel Lab and in Situ Tool - DGD LUB DGD/P-5.032.2.2020-09-08 Proj: DGD-T-DA-ST 5.031 2020-09-05

LOCATION: Somewhere, World MarinaCoastal Dr (LP-2)		SPT N VALUE										SPT (N) / mm	WEATHERING GRADE	REDUCED LEVEL (m)	DEPTH (m)	SAMPLE TYPE	IN SITU TEST	GRAPHIC LOG	THICKNESS (m)	GEOLOGICAL CLASSIFICATION	BS SOIL CLASSIFICATION	BOREHOLE No. ST/1162B/VST_PZW		
FIELD & LABORATORY DATA & TESTS REPORTED ELSEWHERE																						EASTING: 29769.4 m NORTHING: 29018.7 m MGA2020 Zone 56 REDUCED LEVEL: 103.98 m AHD		
																						DESCRIPTION		
VST6 20.50 m 20.0 / 4.0 kPa																							Soft to firm Bluish grey Marine CLAY trace of fine sands, occasional decomposed woods and shell fragments (KALLANG Marine) (continued)	
VST7 21.50 m 23.0 / 4.0 kPa																								
VST8 22.50 m 18.0 / 6.0 kPa																								
VST9 23.50 m 24.0 / 7.0 kPa																								
													10/300		79.48	24.50	SPT13							
													5/300		77.48	25.50	SPT14							Firm Dark grey Organic CLAY with decomposed woods (KALLANG Transitional) SPT14-14 (MC=25%, $p_w=1.50$ Mg/m ³ , $p_c=1.50$ Mg/m ³ , LL=50%, PL=31%, PI=19%)
													18/300			27.00	SPT15							Very stiff to hard Light grey mottled with yellow and red Sandy CLAY (KALLANG Fluvial)
													26/300			28.00	SPT16							
													29/300			29.00	SPT17							
													9/300		73.98	30.00	SPT18							Very stiff to hard Dark greenish grey CLAY (KALLANG Fluvial)
															72.98	30.45								Firm to stiff Grey Marine CLAY (KALLANG Marine)
VST10 31.50 m 72.0 kPa																								
VST11 32.50 m 72.0 kPa																								
VST12 33.50 m 72.0 kPa																								
VST13 34.50 m 65.0 / 17.0 kPa																								
VST14 35.50 m 66.0 / 13.0 kPa																								
VST15 36.50 m 72.0 kPa																								
VST16 37.50 m 72.0 kPa																								
													7/300			39.00	SPT19							
																39.45								
BOREING TYPE: RO		FRACTURE PER METRE																						
DIAMETER (mm):																								
			RQD %	SCR %	TCR %																			
CLIENT: Datgel												LOG OF BORING GEOTECHNICAL STUDY - FIELD INVESTIGATION												
PROJECT: Construction Project												LOGGED BY:					DATE OF FIELD WORK: 15/3/2010 - 27/3/2010							
CONTRACTOR: Contractor 1												GDMS ID / PROJECT ID 5.03.1 / 5.03.1					CHECKED BY:			DATA QUALITY RATING D		SHEET No.: 2 / 3		

DGDTP-5.032 LUB.GLB Log IS SG BOREHOLE 1 DGDTP-5.032.GPJ -<DrawingFile> 99/2020-16:33 10.01.00.11 Datgel Lab and In Situ Tool - DGDTP-5.032.2020-09-08 Proj: DGDTP-5.031 2020-09-05

-  - Sample
-  - Pressuremeter Test (PRM)
-  - Core Run
-  - Vane Shear Test (VST)
-  - Permeability / Packer Test (PKT)
-  - SPT N Value
-  - Attempt TW/P/MZ/U
-  - Piston Sample
-  - Thin Wall Push
-  - Mazier
-  - Thick Wall Open Drive
-  - Core Run
-  - Water
-  - Cassagrande Piezometer
-  - Water Standpipe
-  - SPTLS - SPT Liner

LOCATION:		SPT N VALUE		SPT (N) / mm	WEATHERING GRADE	REDUCED LEVEL (m)	DEPTH (m)	SAMPLE TYPE	IN SITU TEST	GRAPHIC LOG	THICKNESS (m)	GEOLOGICAL CLASSIFICATION	BS SOIL CLASSIFICATION	BOREHOLE No.											
FIELD & LABORATORY DATA & TESTS REPORTED ELSEWHERE		10	20											30	40	50	60	70	80	90	ST/1162B/VST_PZW				
												EASTING: 29769.4 m NORTHING: 29018.7 m MGA2020 Zone 56 REDUCED LEVEL: 103.98 m AHD													
												DESCRIPTION													
												9/300										Firm to stiff Grey Marine CLAY (KALLANG Marine) (continued)			
												11/300	62.98										Firm Dark grey Organic CLAY with decomposed woods (KALLANG Transitional)		
												16/300	42												
												18/300													
												38/300	44												
												29/300	58.98										Very stiff to hard Dark greenish grey CLAY (KALLANG Fluvial)		
												23/300	57.98										Hard Light grey Sandy CLAY (KALLANG Fluvial)		
												15/300													
												29/300	55.98											Hard Light grey Sandy CLAY (OLD ALLUVIUM)	
												47/300													
												60/300													
												100/110	52.98											Very dense Light grey Slightly Sandy SILT (OLD ALLUVIUM)	
												100/180													
												100/120	50.98											Very dense Greenish grey Silty SAND Sand is fine to coarse (OLD ALLUVIUM)	
												100/70													
												100/50													
												100/60													
												100/50													
												100/0	45.98												Hole Terminated at 58.00 m PZW installed at 19.0 m
BORING TYPE: RO		FRACTURE PER METRE		RQD %		SCR %		TCR %		WEATHERING GRADE															
DIAMETER (mm):																									
CLIENT: Datgel										LOG OF BORING GEOTECHNICAL STUDY - FIELD INVESTIGATION															
PROJECT: Construction Project										LOGGED BY:			DATE OF FIELD WORK: 15/3/2010 - 27/3/2010												
CONTRACTOR: Contractor 1					GDMS ID / PROJECT ID 5.03.1 / 5.03.1					CHECKED BY:		DATA QUALITY RATING D		SHEET No.: 3 / 3											

DGDTP-5.032 LUB.GLB Log IS SG BOREHOLE 1 DGDTP-5.032.GPJ -<DrawingFile> 99/2020-1633 10.01.00.11 Datgel Lab and In Situ Tool - DGD LUB DGDTP-5.032.2020-09-08 Proj: DGDTP-5.031 2020-09-05

PROJECT: Construction Project
CLIENT: Datgel
PROJECT NO: 5.03.1
LOCATION: Somewhere, World
DRILLING DATE STARTED: 13/4/2010
DRILLING DATE COMPLETED: 16/4/2010
LOGGED BY:
CHECKED BY:

DRILLING RIG: YBM-13
BOREHOLE DIA:
CORE DIA:
DRILLING METHOD: Rotary open hole
DRILLED BY: Operator A

BORING LOG:
ST/1090A

NORTHING: 29095.9 m
EASTING: 29275.7 m
REDUCED LEVEL: 121.38 m
GWL: m dated

Scale	Reduced Level (m)	Depth (m) (Thickness)	Graphic Log	Legend	Type & No.	Description	● SPT N blows / 300 mm				SPT N blows/300mm	Rock		Geological Classification	British Soil Classification	Grain Size Analysis G/SAS/C	Shear Strength		PL MC LL			
							X Undrained Shear Strength kPa					TCR (%)	RQD (%)				C (kPa)	φ (°)	20	40	60	80
							20	40	60	80							■ Bulk Density Mg/m ³ 1.5 1.8 2.1 2.4					
1	119.88	1.50				Trial pit (1.0x0.5x1.0 m), Hand auger (1.0~3.0 m), Firm Brown Sandy SILT with hard cores (FILL)								FILL	MS							
2						Firm to very stiff Yellowish brown mottled reddish brown Sandy CLAY with gravel, Residual soil (BUKIT TIMAH GRANITE)								G(VI)	CS	-/29/35/36	0 (CU)	35				
3		(2.50)																				
4	117.38	4.00			TW1											1/91/4/-16/57/2-0/23/46/31	0 (CD)	30.5				
5					TW2	Stiff Yellowish brown mottled reddish brown Sandy SILT with gravel, Residual soil (BUKIT TIMAH GRANITE)										0/16/71/13						
6					TW3											0/71/-0/17/60/23	13 (CU)	33				
7					TW4											0/36/-0/25/57/18	134 (UU)	30				
8					TW5											-/28/57/15	0 (CD)					
9					TW6											0/35/52/13						
10					TW7											0/86/-0/17/66/17	10 (CD)	36				
11					TW8											-/43/46/11						
12					TW9											100/175/0/-0/28/57/16	0 (CU)	28				
13					TW10											94/58/0/-/36/53/11	75 (UU)	38				
14					TW11											-/43/46/11	0 (CD)	31				
15					TW12											85/136/0/-/36/51/13	0 (CU)	30				
16					TW13											0/88/1/-	78 (UU)					
17					TW14											0/92/1/-0/4/78/18	12 (CD)	32				
18					TW15											0/99/0/-0/5/81/14	0 (CU)	31				
19					TW16											0/4/78/18	112 (UU)					
20		(31.35)			TW17												0	36				

DGDIT-P-5.032.LIB.GLB_Log IS SG:BOREHOLE 2 DGDIT-P-5.032.GPJ <DrawingFile> 99/2020.16.33.10.01.00.11.Datgel Lab and in Situ Tool - DGD - Lib: DGDIT-P-5.03.2.2020.09.08.Plt: DGDIT-P-5.03.1.2020.09.05



- ☒ - Sample
- - Pressuremeter Test (PRM)
- ▬ - Core Run
- ⊕ - Vane Shear Test (VST)
- ▲ - Permeability / Packer Test (PKT)
- - SPT N Value
- - Attempt TW/P/MZ/U
- P - Piston Sample
- TW - Thin Wall Push
- M - Mazier
- U - Thick Wall Open Drive
- C - Core Run
- SPTLS - SPT Liner
- W - Water
- PZS - Cassagrande Piezometer
- WSP - Water Standpipe

REMARKS:

DATA QUALITY RATING
D

PROJECT: Construction Project
CLIENT: Datgel
PROJECT NO: 5.03.1
LOCATION: Somewhere, World
DRILLING DATE STARTED: 13/4/2010
DRILLING DATE COMPLETED: 16/4/2010
LOGGED BY:
CHECKED BY:

DRILLING RIG: YBM-13
BOREHOLE DIA:
CORE DIA:
DRILLING METHOD: Rotary open hole
DRILLED BY: Operator A

BORING LOG:
ST/1090A

NORTHING: 29095.9 m
EASTING: 29275.7 m
REDUCED LEVEL: 121.38 m
GWL: m dated

Scale	Reduced Level (m)	Depth (m) (Thickness)	Graphic Log	Legend	Type & No.	Description	● SPT N blows / 300 mm				SPT N blows/300mm	Rock		Geological Classification	British Soil Classification	Grain Size Analysis	Shear Strength		PL MC LL			
							X Undrained Shear Strength kPa					TCR (%)	RQD (%)				C (kPa)	φ (°)	20	40	60	80
					20.00 TW18	Stiff Yellowish brown mottled reddish brown Sandy SILT with gravel, Residual soil (BUKIT TIMAH GRANITE) (continued)									44/50/0/-	0	33	1.5	1.8	2.1	2.4	
					20.60 TW18											-37/53/10	0					
21					21.00 TW19											0/72/7/-	69					
					21.90 TW19											0/30/60/10	0					
					22.00 TW20											0/28/65/8	0					
					22.50 TW20																	
22					23.00 TW21											0/71/8/-	19.91	35				
					23.50 TW21											-35/55/10	0					
23					24.00 TW22											102/214/0/-	0	32				
					24.50 TW22											0/31/59/10	93					
					25.00 TW23											-39/52/9	0					
					25.55 TW23																	
24					26.00 TW24											95/19/0/-	0	35				
					26.55 TW24											-35/55/10	0					
25					27.00 TW25											-30/57/13	0					
					27.50 TW25																	
26					28.00 TW26											101/136/0/-	0	33				
					28.55 TW26											-32/57/11	133					
27					29.00 MZ1											-36/46/18	0					
					30.00 TW27											0/72/4/-	0	35				
					30.60 TW27										-32/55/14	0						
28					31.00 MZ2										93/19/0/-	76	30					
					31.00 MZ2										-48/42/10	29						
29					32.00 MZ3										99/117/0/-	0	35					
					32.00 MZ3										-40/48/12	66						
30					MZ Attempt																	
					34.00 TW28										-58/32/10	0						
					34.50 TW28																	
31					35.00 MZ4										-47/43/10	0						
					35.35 MZ4																	
32	86.03	35.35				Hole Terminated at 35.35 m																
33																						
34																						
35																						
36																						
37																						
38																						
39																						
40																						

Date (d/m/yyyy)	Time (HH:mm)	Borehole Depth (m)	Casing Depth (m)	Water Level (m)
1/1/2012	20:00	1.00	0.50	0.75
1/1/2012	21:01	5.00	1.00	0.90

DGD-T-P-5.032-LIB-GLB-Log-IS-SG-BORING-LOG-2-DGD-T-P-5.032-GR-1-01-01-00-11-Datgel-Lab-and-in-Situ-Tool-DGD-LIB-DGD-T-P-5.032-2020-09-08-Phil-DGD-LIB-ST-5.031-2020-09-05-99/2020-16-33-10-01-00-11-Datgel-Lab-and-in-Situ-Tool-DGD-LIB-DGD-T-P-5.032-2020-09-08-Phil-DGD-LIB-ST-5.031-2020-09-05



- ☒ - Sample
- ☐ - Pressuremeter Test (PRM)
- ☐ - Core Run
- ⊕ - Vane Shear Test (VST)
- ▲ - Permeability / Packer Test (PKT)
- - SPT N Value
- ☐ - Attempt TW/P/MZ/U
- P - Piston Sample
- TW - Thin Wall Push
- M - Mazier Thick Wall Open Drive
- C - Core Run
- SPTLS - SPT Liner
- W - Water
- PZS - Cassagrande Piezometer
- WSP - Water Standpipe

REMARKS:

DATA QUALITY RATING
D

PROJECT: Construction Project CLIENT: Datgel PROJECT NO: 5.03.1 LOCATION: Somewhere, World DRILLING DATE STARTED: 15/3/2010 DRILLING DATE COMPLETED: 27/3/2010 LOGGED BY: CHECKED BY:	DRILLING RIG: YBM-12 BOREHOLE DIA: CORE DIA: DRILLING METHOD: Rotary open hole DRILLED BY: Operator A
BORING LOG: ST/1162B/VST_PZW NORTHING: 29018.7 m EASTING: 29769.4 m REDUCED LEVEL: 103.98 m GWL: m dated	

Scale	Reduced Level (m)	Depth (m) (Thickness)	Graphic Log	Legend	Type & No.	Description	● SPT N blows / 300 mm				SPT N blows/300mm	Rock		Geological Classification	British Soil Classification	Grain Size Analysis G/SAS/C	Shear Strength		PL MC LL				
							X Undrained Shear Strength kPa					TCR (%)	RQD (%)				C (kPa)	φ (°)	20	40	60	80	
					0.00	Trial pit(1.0x0.5x1.0)m, Hand auger (1.0~3.0)m ,Probably loose Dark grey,brown Sandy CLAY Occasional rootlets and lots of hardcores (FILL)																	
1					2.00																		
2					3.00																		
3		(7.00)		X	SPT1 3.45					7/300			FILL	CS									
4				X	SPT2 4.45					6/300													
5				X	SPT3 5.45					4/300													
6				X	SPT4 6.45					5/300													
7	96.98	7.00		X	SPT5 7.45					6/300													
8				X	SPT6 8.45	Loose to medium dense Yellowish brown mottled with light grey Clayey SAND with gravel (FILL)					5/300												
9				X	SPT7 9.45					11/300													
10		(6.00)		X	SPT8 10.45					8/300			FILL	SC									
11				X	SPT9 11.45					16/300													
12				X	SPT10 12.45					19/300													
13	90.98	13.00		X	SPT11 13.45	Medium dense Light grey Silty SAND with seashell fragments (FILL)					24/300		FILL	SM									
14	89.98	14.00		X	SPT12 14.45	Soft to firm Bluish grey Marine CLAY trace of fine sands, occasional decomposed woods and shell fragments (KALLANG Marine)					6/300												
15																							
16																							
17													M	C									
18																							
19		(10.50)																					
20																							


DGDT-P-5.032-LIB-GLB_Log-IS-SG-BORINGHOLE-2-DGDT-P-5.032-GR1-<DrawingFile>> 99/2020-1633-10.01.00.11-Datgel Lab and in Situ Tool-DGD-Lib-DGDT-P-5.032-2020-09-08-Plt-DGDT-Lib-ST-5.031-2020-09-05

<p>Datgel DATA SOLUTIONS Geotechnics • Geoenvironment • Laboratory</p>	<ul style="list-style-type: none"> ☒ - Sample ■ - Pressuremeter Test (PRM) ▬ - Core Run ⊕ - Vane Shear Test (VST) 	<ul style="list-style-type: none"> ▲ - Permeability / Packer Test (PKT) ● - SPT N Value □ - Attempt TW/P/MZ/U P - Piston Sample TW - Thin Wall Push 	<ul style="list-style-type: none"> M - Mazier U - Thick Wall C - Core Run SPTLS - SPT Liner W - Water 	<ul style="list-style-type: none"> PZS - Cassagrande Piezometer WSP - Water Standpipe 	REMARKS: PZW installed at 19.0 m DATA QUALITY RATING D
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PROJECT: Construction Project CLIENT: Datgel PROJECT NO: 5.03.1 LOCATION: Somewhere, World DRILLING DATE STARTED: 15/3/2010 DRILLING DATE COMPLETED: 27/3/2010 LOGGED BY: CHECKED BY:	DRILLING RIG: YBM-12 BOREHOLE DIA: CORE DIA: DRILLING METHOD: Rotary open hole DRILLED BY: Operator A
BORING LOG: ST/1162B/VST_PZW NORTHING: 29018.7 m EASTING: 29769.4 m REDUCED LEVEL: 103.98 m GWL: m dated	

Scale	Reduced Level (m)	Depth (m) (Thickness)	Graphic Log	Legend	Type & No.	Description	● SPT N blows / 300 mm				SPT N blows/300mm	Rock		Geological Classification	British Soil Classification	Grain Size Analysis G/SAS/C	Shear Strength		PL MC LL			
							X Undrained Shear Strength kPa					TCR (%)	RQD (%)				C (kPa)	φ (°)	20	40	60	80
21						Soft to firm Bluish grey Marine CLAY trace of fine sands, occasional decomposed woods and shell fragments (KALLANG Marine) (continued)	x															
22							x															
23							x						M	C								
24							x															
25	79.48	24.50		⊗	24.50 SPT13 24.95	Firm Dark grey Organic CLAY with decomposed woods (KALLANG Transitional)	●			10/300												
26		(2.00)		⊗	25.50 SPT14 25.95		●			5/300			E	CO								
27	77.48	26.50				Very stiff to hard Light grey mottled with yellow and red Sandy CLAY (KALLANG Fluvial)	●			18/300												
28				⊗	27.00 SPT15 27.45		●			26/300			F2	CS								
29		(3.50)		⊗	28.00 SPT16 28.45		●			29/300												
30	73.98	30.00		⊗	29.00 SPT17 29.45		●			9/300												
31	72.98	31.00		⊗	30.00 SPT18 30.45	Very stiff to hard Dark greenish grey CLAY (KALLANG Fluvial)	●						F2	C								
32						Firm to stiff Grey Marine CLAY (KALLANG Marine)																
33																						
34																						
35																						
36		(10.00)											M	C								
37																						
38																						
39				⊗	39.00 SPT19 39.45		●			7/300												
40							●															


DGDTP-5.032.LIB.GLB_Log IS SG BOREHOLE 2 DGDTP-5.032.GP2 <DrawingFile> 99/2020.16.33.10.01.00.11.Datgel Lab and in Situ Tool - DGD Lib - DGDTP-5.032.2020.09.08.Plt DGDTP-5.031.2020.09.05

 <p>Geotechnics • Geoenvironment • Laboratory</p>	<table border="0"> <tr> <td>⊗ - Sample</td> <td>▲ - Permeability / Packer Test (PKT)</td> <td>M - Mazier</td> <td>PZS - Cassagrande Piezometer</td> </tr> <tr> <td>■ - Pressuremeter Test (PRM)</td> <td>● - SPT N Value</td> <td>U - Thick Wall Open Drive</td> <td>WSP - Water Standpipe</td> </tr> <tr> <td>▬ - Core Run</td> <td>□ - Attempt TW/P/MZ/U</td> <td>C - Core Run</td> <td></td> </tr> <tr> <td>⊕ - Vane Shear Test (VST)</td> <td>P - Piston Sample</td> <td>SPTLS - SPT Limer</td> <td></td> </tr> <tr> <td></td> <td>TW - Thin Wall Push</td> <td>W - Water</td> <td></td> </tr> </table>	⊗ - Sample	▲ - Permeability / Packer Test (PKT)	M - Mazier	PZS - Cassagrande Piezometer	■ - Pressuremeter Test (PRM)	● - SPT N Value	U - Thick Wall Open Drive	WSP - Water Standpipe	▬ - Core Run	□ - Attempt TW/P/MZ/U	C - Core Run		⊕ - Vane Shear Test (VST)	P - Piston Sample	SPTLS - SPT Limer			TW - Thin Wall Push	W - Water		<p>REMARKS: PZW installed at 19.0 m</p> <p>DATA QUALITY RATING D</p>
⊗ - Sample	▲ - Permeability / Packer Test (PKT)	M - Mazier	PZS - Cassagrande Piezometer																			
■ - Pressuremeter Test (PRM)	● - SPT N Value	U - Thick Wall Open Drive	WSP - Water Standpipe																			
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PROJECT: Construction Project CLIENT: Datgel PROJECT NO: 5.03.1 LOCATION: Somewhere, World DRILLING DATE STARTED: 15/3/2010 DRILLING DATE COMPLETED: 27/3/2010 LOGGED BY: CHECKED BY:	DRILLING RIG: YBM-12 BOREHOLE DIA: CORE DIA: DRILLING METHOD: Rotary open hole DRILLED BY: Operator A
BORING LOG: ST/1162B/VST_PZW NORTHING: 29018.7 m EASTING: 29769.4 m REDUCED LEVEL: 103.98 m GWL: m dated	

Scale	Reduced Level (m)	Depth (m) (Thickness)	Graphic Log	Legend	Type & No.	Description	SPT N blows / 300 mm		SPT N blows/300mm	Rock		Geological Classification	British Soil Classification	Grain Size Analysis G/SAS/C	Shear Strength		PL MC LL 20 40 60 80	Bulk Density Mg/m ³ 1.5 1.8 2.1 2.4
							20	40		60	80				TCR (%)	RQD (%)			C (kPa)	φ (°)
					40.00 SPT20 40.45	Firm to stiff Grey Marine CLAY (KALLANG Marine) (continued)	●		9/300			M	C					
41	62.98	41.00			41.00 SPT21 41.45	Firm Dark grey Organic CLAY with decomposed woods (KALLANG Transitional)	●		11/300									
42					42.00 SPT22 42.45		●		16/300									
43		(4.00)			43.00 SPT23 43.45		●		18/300		E	CO						
44					44.00 SPT24 44.45		●		38/300									
45	58.98	45.00			45.00 SPT25 45.45	Very stiff to hard Dark greenish grey CLAY (KALLANG Fluvial)	●		29/300		F2	C						
46	57.98	46.00			46.00 SPT26 46.45	Hard Light grey Sandy CLAY (KALLANG Fluvial)	●		23/300									
47		(2.00)			47.00 SPT27 47.45		●		15/300		F2	CS						
48	55.98	48.00			48.00 SPT28 48.45	Hard Light grey Sandy CLAY (OLD ALLUVIUM)	●		29/300									
49					49.00 SPT29 49.45		●		47/300		O(C)	CS						
50		(3.00)			50.00 SPT30 50.45		●		60/300									
51	52.98	51.00			51.00 SPT31 51.45	Very dense Light grey Slightly Sandy SILT (OLD ALLUVIUM)	●		100/110									
52		(2.00)			52.00 SPT32 52.45		●		100/180		O(A)	MS						
53	50.98	53.00			53.00 SPT33 53.45	Very dense Greenish grey Silty SAND Sand is fine to coarse (OLD ALLUVIUM)	●		100/120									
54					54.00 SPT34 54.45		●		100/70									
55		(5.00)			55.00 SPT35 55.45		●		100/50		O(A)	SM						
56					56.00 SPT36 56.45		●		100/60									
57					57.00 SPT37 57.45		●		100/50									
58	45.98	58.00			58.00 SPT38 58.45	Hole Terminated at 58.00 m	●		100/0									
59																		
60																		

DGDT-P-5.032.LIB.GLB_Log IS SG BOREHOLE 2 DGDT-P-5.032.GP1 <DrawingFile> 99/2020-1633-10.01.00.11.Datgel Lab and in Situ Tool - DGD Lib DGDT-P-5.032.2020-09-08.Plt DGDT-P-5.031.2020-09-05

 <p>Geotechnics • Geoenvironment • Laboratory</p>	<table border="0"> <tr> <td>☒ - Sample</td> <td>▲ - Permeability / Packer Test (PKT)</td> <td>M - Mazier</td> <td>PZS - Cassagrande Piezometer</td> </tr> <tr> <td>■ - Pressuremeter Test (PRM)</td> <td>● - SPT N Value</td> <td>U - Thick Wall Open Drive</td> <td>WSP - Water Standpipe</td> </tr> <tr> <td>□ - Core Run</td> <td>□ - Attempt TW/P/MZ/U</td> <td>C - Core Run</td> <td></td> </tr> <tr> <td>⊕ - Vane Shear Test (VST)</td> <td>P - Piston Sample</td> <td>SPTLS - SPT Linner</td> <td></td> </tr> <tr> <td></td> <td>TW - Thin Wall Push</td> <td>W - Water</td> <td></td> </tr> </table>	☒ - Sample	▲ - Permeability / Packer Test (PKT)	M - Mazier	PZS - Cassagrande Piezometer	■ - Pressuremeter Test (PRM)	● - SPT N Value	U - Thick Wall Open Drive	WSP - Water Standpipe	□ - Core Run	□ - Attempt TW/P/MZ/U	C - Core Run		⊕ - Vane Shear Test (VST)	P - Piston Sample	SPTLS - SPT Linner			TW - Thin Wall Push	W - Water		<p>REMARKS: PZW installed at 19.0 m</p> <p>DATA QUALITY RATING D</p>
☒ - Sample	▲ - Permeability / Packer Test (PKT)	M - Mazier	PZS - Cassagrande Piezometer																			
■ - Pressuremeter Test (PRM)	● - SPT N Value	U - Thick Wall Open Drive	WSP - Water Standpipe																			
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	TW - Thin Wall Push	W - Water																				

PROJECT: Construction Project
CLIENT: Datgel
PROJECT NO: 5.03.1
LOCATION: Somewhere, World
DRILLING DATE STARTED: 13/4/2010
DRILLING DATE COMPLETED: 16/4/2010
LOGGED BY:
CHECKED BY:

DRILLING RIG: YBM-13
BOREHOLE DIA:
CORE DIA:
DRILLING METHOD: Rotary open hole
DRILLED BY: Operator A

BORING LOG:
ST/1090A

NORTHING: 29095.9 m
EASTING: 29275.7 m
REDUCED LEVEL: 121.38 m
GWL: m dated

Scale	Reduced Level (m)	Depth (m) (Thickness)	Graphic Log	Legend	Type & No.	Description	SPT N blows / 300 mm				SPT N blows/300mm	Rock		Geological Classification	British Soil Classification	Grain Size Analysis	Shear Strength		PL MC LL			
							X Undrained Shear Strength kPa					TCR (%)	RQD (%)				C	φ	20	40	60	80
							20	40	60	80												
1	119.88	1.50				Trial pit (1.0x0.5x1.0 m), Hand auger (1.0~3.0 m), Firm Brown Sandy SILT with hard cores (FILL)							FILL	MS								
2		(2.50)				Firm to very stiff Yellowish brown mottled reddish brown Sandy CLAY with gravel, Residual soil (BUKIT TIMAH GRANITE)							G(VI)	CS								
3					3.00																	
4	117.38	4.00			3.90 4.00	Stiff Yellowish brown mottled reddish brown Sandy SILT with gravel, Residual soil (BUKIT TIMAH GRANITE)																
5					4.70																	
6					5.00																	
7					5.60																	
8					6.00																	
9					6.80																	
10					7.00																	
11					7.70																	
12					8.00																	
13					8.60																	
14					9.00																	
15					9.90																	
16					10.00																	
17					10.80																	
18					11.00																	
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					17.90																	
					18.00																	
					18.90																	
					19.00																	
					19.90																	
					(31.35)																	

DGDTP-5.03.2.LIB.GLB.Log.US.SG.BOREHOLE.2.MULT.HZT.DGDT-P.5.03.2.CPI.<<DrawingFile>> 99/2020.1633.10.01.00.11.DatgelLab and In Situ Test_DGDTP-5.03.2.2020-09-08.P1.DGDT-DLST.5.03.1.2020-09-05



- Sample
- Permeability / Packer Test (PKT)
- Pressuremeter Test (PRM)
- Core Run
- Vane Shear Test (VST)
- SPT N Value
- Attempt TW/PMZ/U
- Piston Sample
- Thin Wall Push
- Mazier
- Thick Wall Open Drive
- Core Run
- SPTLS - SPT Liner
- Water
- Cassagrande Piezometer
- Water Standpipe

REMARKS:

DATA QUALITY RATING
D

LOCATION: Somewhere, World Old Police Academy (Near Blk 26C)		SPT (N) / mm SCR (%)	FRACTURE PER METER	WEATHERING GRADE	REDUCED LEVEL (m)	DEPTH (m)	SAMPLE TYPE	GRAPHIC LOG	GEOLOGICAL CLASSIFICATION	BS SOIL CLASSIFICATION	BOREHOLE No. ST/1090A
FIELD TESTS											SPT N VALUE 10 20 30 40 50 60 70 80 90		EASTING: 29275.7 m NORTHING: 29095.9 m MGA2020 Zone 56 REDUCED LEVEL: 121.38 m AHD

DAILY WATER TABLE READING		DATE	READING (m bgl)	
1/1/2012				0.75
1/1/2012				0.90

DESCRIPTION		Trial pit (1.0x0.5x1.0 m), Hand auger (1.0-3.0 m), Firm Brown Sandy SILT with hard cores (FILL)	
Firm to very stiff Yellowish brown mottled reddish brown Sandy CLAY with gravel, Residual soil (BUKIT TIMAH GRANITE)		<p>TW1-1 (MC=20%, $p_w=1.79 \text{ Mg/m}^3$, $p_s=2.69 \text{ Mg/m}^3$, SAND=29% SILT=35% CLAY=36%, LL=22%, PL=19%, PI=3%, $s_{u(CU)}=150 \text{ kPa}$, $c_{cu}=0 \text{ kPa}$, $\phi_{cu}=35^\circ$, $C_c=0.025$, $e_p=1.032$)</p> <p>TW1-2 (GRAVEL=1% SAND=91% SILT=4%, LL=35%, PL=22%, PI=13%, $C_c=0.024$, $e_p=0.926$)</p> <p>TW1 (COBBLES=13% GRAVEL=16% SAND=57% SILT=2%, $e_p=1$)</p> <p>Stiff Yellowish brown mottled reddish brown Sandy SILT with gravel, Residual soil (BUKIT TIMAH GRANITE)</p> <p>TW2-1 (LL=25%, PL=30%, PI=-5%, $c_{cd}=0 \text{ kPa}$, $\phi_{cd}=30.5^\circ$, $e_p=1.34$)</p> <p>TW2-2 (MC=35%, $p_w=1.73 \text{ Mg/m}^3$, SAND=23% SILT=46% CLAY=31%, LL=66%, PL=40%, PI=26%, $p_c=300 \text{ kPa}$, $m_v=0.116 \text{ m}^2/\text{MN}$, $C_c=0.302 \text{ kPa}$, $C_c=0.026$, $e_p=1.2$)</p> <p>TW3-3 (MC=37%, $p_w=1.74 \text{ Mg/m}^3$, $p_s=2.68 \text{ Mg/m}^3$, SAND=16% SILT=71% CLAY=13%, LL=62%, PL=36%, PI=26%, $e_p=1.012$)</p> <p>TW4-1 (SAND=71% FINES=29%, LL=30%, PL=21%, PI=9%, $s_{u(CU)}=45 \text{ kPa}$, $c_{cu}=13 \text{ kPa}$, $\phi_{cu}=33^\circ$, $e_p=0.877$)</p> <p>TW4-4 (MC=38%, $p_w=1.75 \text{ Mg/m}^3$, SAND=17% SILT=60% CLAY=23%, LL=65%, PL=38%, PI=27%)</p> <p>TW4-1 ($s_{u(CU)}=134 \text{ kPa}$)</p> <p>TW5-1 (SAND=36% FINES=64%, LL=23%, PL=18%, PI=5%, $c_{cd}=0 \text{ kPa}$, $\phi_{cd}=30^\circ$)</p> <p>TW5-5 (MC=38%, $p_w=1.78 \text{ Mg/m}^3$, $p_s=2.70 \text{ Mg/m}^3$, SAND=25% SILT=57% CLAY=18%, LL=67%, PL=37%, PI=30%)</p> <p>TW6-6 (MC=35%, $p_w=1.71 \text{ Mg/m}^3$, SAND=28% SILT=57% CLAY=15%, LL=65%, PL=39%, PI=26%)</p> <p>TW7-7 (MC=40%, $p_w=1.74 \text{ Mg/m}^3$, $p_s=2.69 \text{ Mg/m}^3$, SAND=35% SILT=52% CLAY=13%, LL=69%, PL=39%, PI=30%)</p> <p>TW8-1 (SAND=86% FINES=14%, LL=33%, PL=23%, PI=11%, $c_{cd}=10 \text{ kPa}$, $\phi_{cd}=36^\circ$)</p> <p>TW8-8 (MC=37%, $p_w=1.75 \text{ Mg/m}^3$, SAND=17% SILT=66% CLAY=17%, LL=58%, PL=38%, PI=20%, $p_c=280 \text{ kPa}$, $m_v=0.141 \text{ m}^2/\text{MN}$, $C_c=0.348 \text{ kPa}$, $C_c=0.026$, $e_p=1.17$)</p> <p>TW9-9 (MC=34%, $p_w=1.71 \text{ Mg/m}^3$, $p_s=2.71 \text{ Mg/m}^3$, SAND=43% SILT=46% CLAY=11%, LL=60%, PL=36%, PI=24%)</p> <p>TW10-1 (GRAVEL=100% SAND=175%, LL=34%, PL=21%, PI=13%, $s_{u(CU)}=80 \text{ kPa}$, $c_{cu}=0 \text{ kPa}$, $\phi_{cu}=28^\circ$)</p> <p>TW10-10 (MC=38%, $p_w=1.77 \text{ Mg/m}^3$, SAND=28% SILT=57% CLAY=16%, LL=60%, PL=39%, PI=21%)</p> <p>TW10-1 ($s_{u(CU)}=75 \text{ kPa}$)</p> <p>TW11-1 (GRAVEL=94% SAND=58%, $s_{u(CU)}=56 \text{ kPa}$, $c_{cu}=0 \text{ kPa}$, $\phi_{cu}=38^\circ$)</p> <p>TW11-11 (MC=37%, $p_w=1.77 \text{ Mg/m}^3$, $p_s=2.68 \text{ Mg/m}^3$, SAND=36% SILT=53% CLAY=11%, LL=53%, PL=34%, PI=19%)</p> <p>TW11-1 ($c_{cd}=0 \text{ kPa}$, $\phi_{cd}=31^\circ$)</p> <p>TW12-12 (MC=35%, $p_w=1.81 \text{ Mg/m}^3$, SAND=43% SILT=46% CLAY=11%, LL=58%, PL=37%, PI=21%, $p_c=370 \text{ kPa}$, $m_v=0.096 \text{ m}^2/\text{MN}$, $C_c=0.315 \text{ kPa}$, $C_c=0.029$, $e_p=1.04$)</p> <p>TW13-1 (GRAVEL=85% SAND=136%, $s_{u(CU)}=98 \text{ kPa}$, $c_{cu}=0 \text{ kPa}$, $\phi_{cu}=30^\circ$)</p> <p>TW13-13 (MC=37%, $p_w=1.77 \text{ Mg/m}^3$, $p_s=2.70 \text{ Mg/m}^3$, SAND=36% SILT=51%)</p>	

BORING TYPE: RO	TCR, RQD (%)	- Sample - Pressuremeter Test (PRM) - Core Run - Vane Shear Test (VST)	- Permeability / Packer Test (PKT) - SPT N Value - Attempt TW/PMZ/U - Piston Sample - Thin Wall Push	M - Mazier U - Thick Wall Open Drive C - Core Run SPTLS - SPT Liner W - Water	MC - MOISTURE CONTENT BD - BULK DENSITY PD - PARTICLE DENSITY LL - LIQUID LIMIT (%) PL - PLASTIC LIMIT (%) UU/CU - UNCONSOLIDATED /CONSOLIDATED UNDRAINED TESTS (kPa)
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CLIENT: Datgel	LOG OF BORING GEOTECHNICAL STUDY - FIELD INVESTIGATION		
PROJECT: Construction Project	LOGGED BY:	DATE OF FIELD WORK: 13/4/2010 - 16/4/2010	
CONTRACTOR: Contractor 1	GDMS ID / PROJECT ID: 5.03.1 / 5.03.1	CHECKED BY:	DATA QUALITY RATING: D
		SHEET No.: 1 / 3	

DGDTP-5.032 LUB.GLB Log US SG BOREHOLE 3 DGDTP-5.032.GPJ <DrawingFile> 992020.16.34 10.01.00.11 Datgel Lab and in Situ Tool - DGD LUB DGDTP-5.032.2 2020-09-08 Pjt DGDTP-5.031 2020-09-05






LOCATION: Somewhere, World Old Police Academy (Near Blk 26C)		SPT (N) / mm SCR (%)	FRACTURE PER METER	WEATHERING GRADE	REDUCED LEVEL (m)	DEPTH (m)	SAMPLE TYPE	GRAPHIC LOG	GEOLOGICAL CLASSIFICATION	BS SOIL CLASSIFICATION	BOREHOLE No. ST/1090A
FIELD TESTS	SPT N VALUE 10 20 30 40 50 60 70 80 90										EASTING: 29275.7 m NORTHING: 29095.9 m MGA2020 Zone 56 REDUCED LEVEL: 121.38 m AHD

FIELD TESTS		SPT N VALUE	SPT (N) / mm	FRACTURE PER METER	WEATHERING GRADE	REDUCED LEVEL (m)	DEPTH (m)	SAMPLE TYPE	GRAPHIC LOG	GEOLOGICAL CLASSIFICATION	BS SOIL CLASSIFICATION	DESCRIPTION
		10 20 30 40 50 60 70 80 90				86.03	20.00 20.60 21.00 21.90 22.00 22.50 23.00 23.50 24.00 24.50 25.00 25.55 26.00 26.55 27.00 27.50 28.00 28.55 29.00 30.00 30.60 31.00 32.00 32.00 33.00 34.00 34.50 35.00 35.35	TW18 TW19 TW20 TW21 TW22 TW23 TW24 TW25 TW26 MZ1 TW27 MZ2 MZ3 MZ Attempt TW28 MZ4				CLAY=13%, LL=55%, PL=34%, PI=21%) TW13-1 (s _w =78 kPa) TW14-14 (MC=49%, p _w =1.68 Mg/m ³ , SAND=88% SILT=1%, LL=60%, PL=39%, PI=21%) TW15-1 (SAND=92% SILT=1%, c _{cd} =12 kPa, φ _{cd} =32°) TW15-15 (MC=49%, p _w =1.72 Mg/m ³ , p _w =2.72 Mg/m ³ , SAND=4% SILT=78% CLAY=18%, LL=69%, PL=40%, PI=29%) TW16-1 (SAND=99% SILT=0%, s _{w(cu)} =110 kPa, c _{cu} =0 kPa, φ _{cu} =31°) TW16-16 (MC=51%, p _w =1.67 Mg/m ³ , SAND=5% SILT=81% CLAY=14%, LL=69%, PL=39%, PI=30%) TW16-1 (s _w =112 kPa) TW17-17 (MC=51%, p _w =1.71 Mg/m ³ , p _w =2.69 Mg/m ³ , SAND=4% SILT=78% CLAY=18%, LL=65%, PL=36%, PI=27%) Stiff Yellowish brown mottled reddish brown Sandy SILT with gravel, Residual soil (BUKIT TIMAH GRANITE) (continued) TW18-1 (GRAVEL=44% SAND=50% SILT=0%, s _{w(cu)} =67 kPa, c _{cu} =0 kPa, φ _{cu} =36°) TW18-18 (MC=31%, p _w =1.75 Mg/m ³ , SAND=37% SILT=53% CLAY=10%, LL=52%, PL=33%, PI=19%) TW18-1 (GRAVEL=97% SAND=156%, c _{cd} =0 kPa, φ _{cd} =33°) TW19-1 (SAND=72% SILT=7%, s _w =69 kPa) TW19-19 (MC=31%, p _w =1.83 Mg/m ³ , p _w =2.69 Mg/m ³ , SAND=30% SILT=60% CLAY=10%, LL=50%, PL=35%, PI=15%) TW20-20 (MC=33%, p _w =1.81 Mg/m ³ , SAND=28% SILT=65% CLAY=8%, LL=50%, PL=33%, PI=17%) TW21-1 (SAND=71% SILT=8%, s _{w(cu)} =36 kPa, c _{cu} =19.91 kPa, φ _{cu} =35°) TW21-21 (MC=30%, p _w =1.86 Mg/m ³ , p _w =2.71 Mg/m ³ , SAND=35% SILT=55% CLAY=10%, LL=50%, PL=31%, PI=19%) TW22-1 (GRAVEL=102% SAND=214%, s _{w(cu)} =98 kPa, c _{cu} =0 kPa, φ _{cu} =32°) TW22-22 (MC=34%, p _w =1.81 Mg/m ³ , SAND=31% SILT=59% CLAY=10%, LL=48%, PL=35%, PI=13%) TW22-1 (s _w =93 kPa) TW23-23 (MC=29%, p _w =1.81 Mg/m ³ , p _w =2.70 Mg/m ³ , SAND=39% SILT=52% CLAY=9%, LL=45%, PL=33%, PI=12%) TW24-1 (GRAVEL=95% SAND=19%, s _{w(cu)} =110 kPa, c _{cu} =0 kPa, φ _{cu} =35°) TW24-24 (MC=29%, p _w =1.81 Mg/m ³ , SAND=35% SILT=55% CLAY=10%, LL=46%, PL=35%, PI=11%) TW25-25 (MC=33%, p _w =1.78 Mg/m ³ , p _w =2.71 Mg/m ³ , SAND=30% SILT=57% CLAY=13%, LL=48%, PL=35%, PI=13%) TW26-1 (GRAVEL=101% SAND=136%, s _{w(cu)} =100 kPa, c _{cu} =0 kPa, φ _{cu} =33°) TW26-26 (MC=31%, p _w =1.84 Mg/m ³ , SAND=32% SILT=57% CLAY=11%, LL=47%, PL=34%, PI=13%) TW26-1 (s _w =133 kPa) MZ1-1 (MC=35%, p _w =1.85 Mg/m ³ , p _w =2.69 Mg/m ³ , SAND=36% SILT=46% CLAY=18%, LL=47%, PL=34%, PI=13%) TW27-1 (SAND=72% SILT=4%, s _{w(cu)} =92 kPa, c _{cu} =0 kPa, φ _{cu} =35°) TW27-27 (MC=33%, p _w =1.83 Mg/m ³ , SAND=32% SILT=55% CLAY=14%, LL=51%, PL=33%, PI=18%) MZ2-1 (GRAVEL=93% SAND=19%, s _w =76 kPa) MZ2-2 (MC=28%, p _w =1.82 Mg/m ³ , p _w =2.68 Mg/m ³ , SAND=48% SILT=42% CLAY=10%, LL=51%, PL=36%, PI=15%) MZ2-1 (s _{w(cu)} =78 kPa, c _{cu} =29 kPa, φ _{cu} =30°) MZ3-1 (GRAVEL=99% SAND=117%, s _{w(cu)} =100 kPa, c _{cu} =0 kPa, φ _{cu} =35°) MZ3-3 (MC=32%, p _w =1.87 Mg/m ³ , SAND=40% SILT=48% CLAY=12%, LL=50%, PL=34%, PI=16%) MZ3-1 (s _w =66 kPa) TW28-28 (MC=25%, p _w =1.85 Mg/m ³ , p _w =2.70 Mg/m ³ , SAND=58% SILT=32% CLAY=10%, LL=47%, PL=33%, PI=14%)

BORING TYPE: RO	DIAMETER (mm):	TCR, RQD (%)	- Sample - Pressuremeter Test (PRM) - Core Run - Vane Shear Test (VST)	- Permeability / Packer Test (PKT) - SPT N Value - Attempt TW/PMZ/U - Piston Sample - Thin Wall Push	M - Mazier U - Thick Wall Open Drive C - Core Liner SPTLS - SPT Liner W - Water	MC - MOISTURE CONTENT BD - BULK DENSITY PD - PARTICLE DENSITY LL - LIQUID LIMIT (%) PL - PLASTIC LIMIT (%) UU/CU - UNCONSOLIDATED /CONSOLIDATED UNDRAINED TESTS (kPa)
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CLIENT: Datgel	LOG OF BORING GEOTECHNICAL STUDY - FIELD INVESTIGATION	
PROJECT: Construction Project	LOGGED BY:	DATE OF FIELD WORK: 13/4/2010 - 16/4/2010
CONTRACTOR: Contractor 1	GDMS ID / PROJECT ID 5.03.1 / 5.03.1	CHECKED BY: DATA QUALITY RATING D
		SHEET No.: 2 / 3

DGD1-P-5.032-LIB-GLB-Log-18-34-10.01.00.11-Datgel Lab and in Situ Tool-DGD-DGD1-P-5.032-LIB-GLB-ST-5.031-2020-09-05

LOCATION:		SPT (N) / mm		FRACTURE PER METER	WEATHERING GRADE	REDUCED LEVEL (m)	DEPTH (m)	SAMPLE TYPE	GRAPHIC LOG	GEOLOGICAL CLASSIFICATION	BS SOIL CLASSIFICATION	BOREHOLE No.
Somewhere, World Old Police Academy (Near Blk 26C)		SCR (%)										ST/1090A
FIELD TESTS	SPT N VALUE		EASTING: 29275.7 m NORTHING: 29095.9 m MGA2020 Zone 56 REDUCED LEVEL: 121.38 m AHD									
	10	20	30	40	50	60	70	80	90	DESCRIPTION		
							42					MZ4-4 (MC=26%, $p_a=1.87 \text{ Mg/m}^3$, SAND=47% SILT=43% CLAY=10%, LL=51%, PL=36%, PI=15%) Hole Terminated at 35.35 m
							44					
							46					
							48					
							50					
							52					
							54					
							56					
							58					
							60					
BORING TYPE: RO	TCR, RQD (%)		<input checked="" type="checkbox"/> - Sample <input type="checkbox"/> - Pressuremeter Test (PRM) <input type="checkbox"/> - Core Run <input checked="" type="checkbox"/> - Vane Shear Test (VST)		<input checked="" type="checkbox"/> - Permeability / Packer Test (PKT) <input checked="" type="checkbox"/> - SPT N Value <input type="checkbox"/> - Attempt TW/P/MZ/U P - Piston Sample TW - Thin Wall Push		M - Mazier U - Thick Wall Open Drive C - Core Run SPTLS - SPT Liner W - Water		MC - MOISTURE CONTENT BD - BULK DENSITY PD - PARTICLE DENSITY LL - LIQUID LIMIT (%) PL - PLASTIC LIMIT (%) UU/CU - UNCONSOLIDATED /CONSOLIDATED UNDRAINED TESTS (kPa)			
DIAMETER (mm):	 TCR  RQD											
CLIENT:	Datgel					LOG OF BORING GEOTECHNICAL STUDY - FIELD INVESTIGATION						
PROJECT:	Construction Project					LOGGED BY:			DATE OF FIELD WORK: 13/4/2010 - 16/4/2010			
CONTRACTOR:	Contractor 1		GDMS ID / PROJECT ID 5.03.1 / 5.03.1		CHECKED BY:			DATA QUALITY RATING D		SHEET No.: 3 / 3		

DGDTP-5.032 LUB.GLB Log IS SG BOREHOLE 3 DGDTP-5.032.GPJ -<DrawingFile>> 99/2020 16:34 10.01.00.11 Datgel Lab and In Situ Tool - DGD | Lib: DGDTP-5.032 2020-09-08 Proj: DGDTP-5.031 2020-09-05

PROJECT: Construction Project
CLIENT: Datgel
PROJECT NO: 5.03.1
LOCATION: Somewhere, World
DRILLING DATE STARTED: 13/4/2010
DRILLING DATE COMPLETED: 16/4/2010
LOGGED BY:
CHECKED BY:

DRILLING RIG: YBM-13
BOREHOLE DIA:
CORE DIA:
DRILLING METHOD: Rotary open hole
DRILLED BY: Operator A

BORING LOG:
ST/1090A

NORTHING: 29095.9 m
EASTING: 29275.7 m
REDUCED LEVEL: 121.38 m
GWL: m dated

Scale	Reduced Level (m)	Depth (m) (Thickness)	Graphic Log	Legend	Type & No.	Description	● SPT N blows / 300 mm				SPT N blows/300mm	Rock			Geological Classification	British Soil Classification	Grain Size Analysis G/SAS/C	Shear Strength		PL MC LL		
							X Undrained Shear Strength kPa					TCR (%)	SCR (%)	RQD (%)				C (kPa)	φ (°)	20	40	60	80
						Trial pit (1.0x0.5x1.0 m), Hand auger (1.0~3.0 m), Firm Brown Sandy SILT with hard cores (FILL)									FILL	MS						
	119.88	1.50				Firm to very stiff Yellowish brown mottled reddish brown Sandy CLAY with gravel, Residual soil (BUKIT TIMAH GRANITE)									G(VI)	CS	-29/35/36	0 (CU)	35			
		(2.50)															1/91/4/-16/57/2-0/23/46/31	0 (CD)	30.5			
	117.38	4.00			TW1												0/16/71/13					
					TW2	Stiff Yellowish brown mottled reddish brown Sandy SILT with gravel, Residual soil (BUKIT TIMAH GRANITE)											0/71/-0/17/60/23	13 (CU)	33			
					TW3												0/36/-0/25/57/18	134 (UU)	30			
					TW4												-28/57/15	0 (CD)				
					TW5												0/35/52/13					
					TW6												0/86/-0/17/66/17	10 (CD)	36			
					TW7												-143/46/11					
					TW8												100/175/0/-0/28/57/16	0 (CU)	28			
					TW9												94/58/0/-36/53/11	75 (UU)	38			
					TW10												-143/46/11	0 (CU)	31			
					TW11												85/136/0/-36/51/13	78 (UU)	30			
					TW12												0/88/1/-					
					TW13												0/92/1/-0/4/78/18	12 (CD)	32			
					TW14												0/99/0/-0/5/81/14	0 (CU)	31			
					TW15												0/4/78/18	112 (UU)				
					TW16																	
					TW17																	
		(31.35)																				

DGDIT-P-5.032-LIB-GLB_Log IS SG-BORING-LOG-4_DGDIT-P-5.032-GR1 <DrawingFile> 99/2020-1634-10.01.00.11 Datgel Lab and in Situ Tool - DGD - Lib - DGDIT-P-5.032-2020-09-08 Pit - DGDIT-P-5.031-2020-09-05

Datgel
 DATA SOLUTIONS
 Geotechnics • Geoenvironment • Laboratory

- ☒ - Sample
- - Permeability / Packer Test (PKT)
- - Pressuremeter Test (PRM)
- - SPT N Value
- - Attempt TW/P/MZ/U
- ⊕ - Core Run
- P - Vane Shear Test (VST)
- P - Piston Sample
- TW - Thin Wall Push
- M - Mazier
- U - Thick Wall
- C - Open Drive
- SPTLS - SPT Liner
- W - Water
- PZS - Cassagrande Piezometer
- WSP - Water Standpipe

REMARKS:

DATA QUALITY RATING
 D

PROJECT: Construction Project
CLIENT: Datgel
PROJECT NO: 5.03.1
LOCATION: Somewhere, World
DRILLING DATE STARTED: 13/4/2010
DRILLING DATE COMPLETED: 16/4/2010
LOGGED BY:
CHECKED BY:

DRILLING RIG: YBM-13
BOREHOLE DIA:
CORE DIA:
DRILLING METHOD: Rotary open hole
DRILLED BY: Operator A

BORING LOG:
ST/1090A
NORTHING: 29095.9 m
EASTING: 29275.7 m
REDUCED LEVEL: 121.38 m
GWL: m dated

Scale	Reduced Level (m)	Depth (m) (Thickness)	Graphic Log	Legend	Type & No.	Description	● SPT N blows / 300 mm				SPT N blows/300mm	Rock			Geological Classification	British Soil Classification	Grain Size Analysis	Shear Strength		PL MC LL		
							X Undrained Shear Strength kPa					TCR (%)	SCR (%)	RQD (%)				C (kPa)	φ (°)	20	40	60	80
							20	40	60	80						G/S/A/S/C	(CU)		1.5	1.8	2.1	2.4
21		20.00			TW18	Stiff Yellowish brown mottled reddish brown Sandy SILT with gravel, Residual soil (BUKIT TIMAH GRANITE) (continued)										44/50/0/-	0	33				
		20.60															-37/53/10	0				
		21.00															97/156/0/-	0				
		21.90			TW19												0/72/7/-	69				
		22.00															0/30/60/10	0				
		22.50			TW20												0/28/65/8	0				
		23.00															0/71/8/-	19.91				
		23.50			TW21												-35/55/10	0				
		24.00															102/214/0/-	0				
		24.50			TW22												0/31/59/10	93				
		25.00														-39/52/9	0					
		25.55			TW23											95/19/0/-	0					
		26.00														-35/55/10	0					
		26.55			TW24											-30/57/13	0					
		27.00														101/136/0/-	0					
		27.50			TW25											-32/57/11	133					
		28.00														-36/46/18	0					
		28.55			TW26											0/72/4/-	0					
		29.00														93/19/0/-	76					
		29.90			MZ1											-48/42/10	29					
		30.00														99/117/0/-	0					
		30.60			TW27											-40/48/12	66					
		31.00														-58/32/10	0					
		31.90			MZ2											-47/43/10	0					
		32.00																				
		32.90			MZ3																	
		33.00																				
		33.90			MZ Attempt																	
		34.00																				
		34.50			TW28																	
		35.00																				
		35.35			MZ4																	
		35.35																				
						Hole Terminated at 35.35 m																

Date (d/m/yyyy)	Time (HH:mm)	Borehole Depth (m)	Casing Depth (m)	Water Level (m)
1/1/2012	20:00	1.00	0.50	0.75
1/1/2012	21:01	5.00	1.00	0.90

DGDTP-5.032.LIB.GLB.Log IS SG BOREHOLE 4 DGDTP-5.032.GPJ <<DrawingFile>> 99/2020.16.34.10.01.00.11.Datgel Lab and in Situ Tool - DGD Lib - DGDTP-5.032.20200908.Plt DGDTP-CA-ST-5.031.2020-09-05

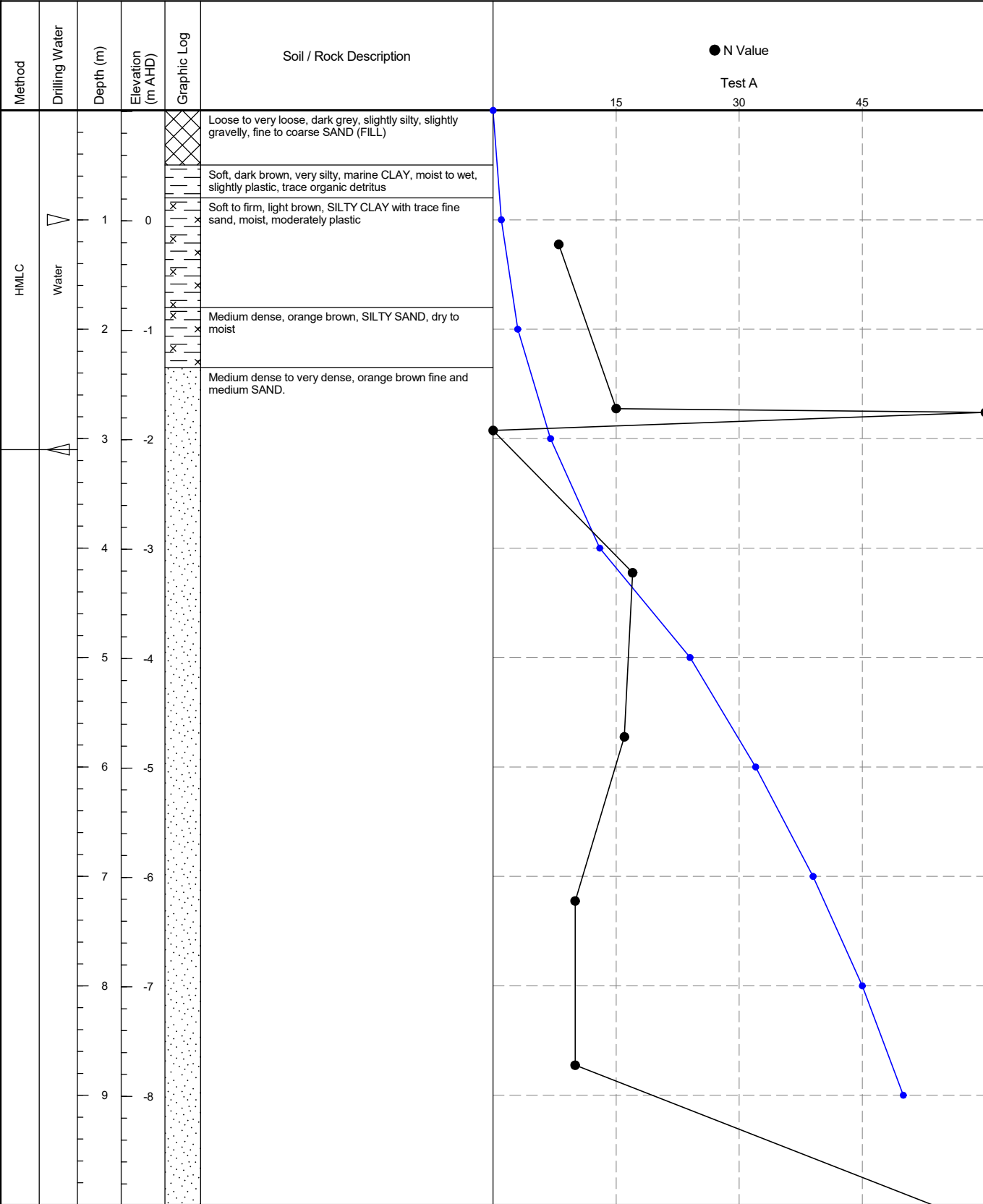


- ☒ - Sample
- ☐ - Pressuremeter Test (PRM)
- ☐ - Core Run
- ⊕ - Vane Shear Test (VST)
- ▲ - Permeability / Packer Test (PKT)
- - SPT N Value
- ☐ - Attempt TW/P/MZ/U
- P - Piston Sample
- TW - Thin Wall Push
- M - Mazier
- U - Thick Wall
- C - Core Run
- SPTLS - SPT Liner
- W - Water
- PZS - Cassagrande Piezometer
- WSP - Water Standpipe

REMARKS:

DATA QUALITY RATING
D

CLIENT : Datgel	POSITION : A	SHEET : 1 OF 2
CONTRACTOR : Contractor 1	EASTING : 181.3 m	STATUS : 1
PROJECT : Construction Project	NORTHING : 50.2 m	LOGGED BY : LB
LOCATION : Somewhere, World	COORD. SYS. : MGA2020 Zone 56	DRILL DATE : 13/1/2010
PROJECT No. : 5.03.1	GROUND RL : 1.01 m AHD	

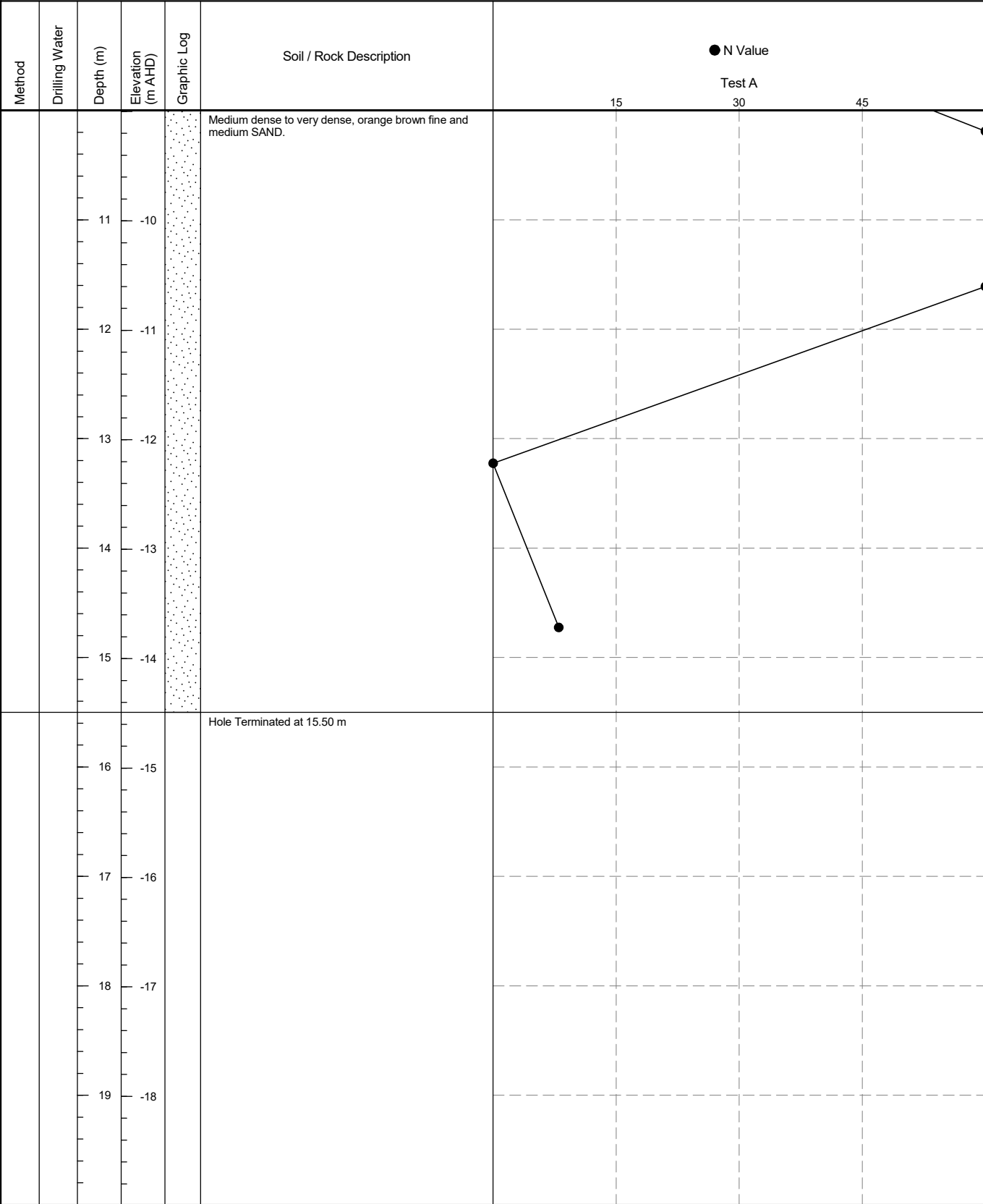


DGDTP-5.032.LIB.GLB.Log IS SPT DESIGN LINE DGDTP 5.032.GPJ <<DrawingFile>> 9/9/2020 16:34 10.01.00.11 Datgel Lab and In Situ Tool - DGD | Lib: DGDTP-5.032.2020-09-08 Proj: DGDTP-DLST-5.03.1.2020-09-05

RIG : Drill Rig	CHECKED BY : CB	REMARK
INCLINATION : -90°	CHECKED DATE : 13/11/2009	General remark about V-In Situ
AZIMUTH :	APPROVED BY : AB	
HOLE DIA. : 105/95 mm	APPROVED DATE : 14/1/2010	

Hole ID	V-In Situ
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CLIENT : Datgel CONTRACTOR : Contractor 1 PROJECT : Construction Project LOCATION : Somewhere, World PROJECT No. : 5.03.1	POSITION : A EASTING : 181.3 m NORTHING : 50.2 m COORD. SYS. : MGA2020 Zone 56 GROUND RL : 1.01 m AHD	SHEET : 2 OF 2 STATUS : 1 LOGGED BY : LB DRILL DATE : 13/1/2010
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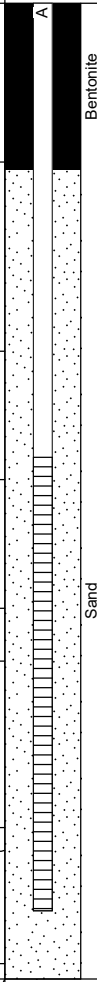
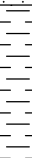







DGDTP-5.032.LIB.GLB.Lib IS SPT DESIGN LINE DGDTP 5.032.CPJ <<DrawingFile>> 9/9/2020 16:34 10.01.00.11 Datgel Lab and In Situ Tool - DGD | Lib: DGDTP-5.032.2020-09-08 Proj: DGDTP-5.03.1.2020-09-05

RIG : Drill Rig INCLINATION : -90° AZIMUTH : HOLE DIA. : 105/95 mm	CHECKED BY : CB CHECKED DATE : 13/11/2009 APPROVED BY : AB APPROVED DATE : 14/1/2010	REMARK General remark about V-In Situ
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BOREHOLE LOG

Project Construction Project				BOREHOLE No V-BH BS	
Job No 5.03.1	Date 18/12/2009 18/12/2009	Ground Level (m AHD) 24.15	Co-Ordinates (MGA2020 Zone 56) E 263050.4 N 6266082.1		
Contractor Contractor 1				Sheet Page 1 of 3	

SAMPLES & TESTS			STRATA					Geology	Instrument/ Backfill
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	DESCRIPTION		
						(1.05)	Pale brown.	A	
1.35-1.80	SPTLS			23.10		1.05	Brown and dark brown fine and medium CLAY	A	
1.35-1.74	SPT					(1.25)			
				21.85		2.30	Brown and pale brown with some grey SAND	A	
2.85-3.30	SPTLS					(0.85)			
				21.00		3.15	Pale brown and grey with some red-brown SAND	B	
						(0.85)			
4.20-4.65	U			20.15		4.00	Pale grey CLAY	B	
						(1.10)			
				19.80		4.35	Pale grey pale brown and pale red-brown fine to coarse SAND	C	
						(0.75)			
5.70-5.98	SPTLS			18.70		5.45	Grey CLAY	B	
				18.55		5.60	Dark brown and dark grey CLAY	B	
						(0.75)			
				17.80		6.35	Slightly weathered moderately weak dark grey sandy SILTSTONE	D	
				17.70		6.45	Borehole continued as a Cored Drillhole		


Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
18/12/2009	10.00	3.20	2.00		2.3						A general remark

All dimensions in metres Scale 1:50	Client Datgel	Method/ Plant Used Edson 3000	Logged By ABC
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DGDTP-5.03.2.LIB.GLB Log IS UK BOREHOLE DGDTP-5.03.2.GPJ <DrawingFiles> 9/9/2020 16:34 10.01.00.11.Datgel.Lab and In Situ Tool - DGD (Lib: DGDTP-5.03.2.2020-09-08 Proj: DGDTP-01-ST5.03.1.2020-09-05)

DRILLHOLE LOG

Project Construction Project				DRILLHOLE No V-BH BS	
Job No 5.03.1	Date 18/12/2009 18/12/2009	Ground Level (m AHD) 24.15	Co-Ordinates (MGA2020 Zone 56) E 263050.4 N 6266082.1		
Contractor Contractor 1				Sheet Page 2 of 3	

RUN DETAILS					STRATA			Geology	Instrument/ Backfill	
Depth Date	TCR (SCR) RQD	(SPT) Fracture Spacing	Red'cd Level	Legend	Depth (Thick- ness)	DESCRIPTION				
						Discontinuities	Detail			Main
6.45			17.70		6.45					
18-12	100 (86) 86	100 300		x x x x		6.64-6.93: JT; 0 - 90°; PR; RF; Fe Clay; Also IR & S WITH CLAY POCKETS 7.00: HB 7.12: JT; 30 - 60°; PR; RF; Fe; Joints also IR 7.34: JT; 5°; PR; RF; Fe Clay 7.38: JT; 90°; PR; S; Fe 7.43: JT; 55°; PR; S; Clay	Dark grey with red brown and grey-brown sandy SILTSTONE 45deg - 70deg bedding. Scatter of Fe sealed joints at 40deg - 90deg.	D		
18-12	100 (89) 89	0	16.15	x x x x	(1.55) 8.00					

Drilling Progress and Water Observations							Rotary Flush				GENERAL REMARKS
Date	Time	Depth	Casing	Core Dia mm	Strike	Water Standing	From	To	Type	Returns	
					8		6.45 8	8 10.15	Polymer Polymer		A general remark

All dimensions in metres Scale 1:50	Client Datgel	Method/ Plant Used Edson 3000	Logged By ABC
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DGDTP-5.03.2.LIB.GLB_Log IS UK DRILLHOLE DGDTP-5.03.2.GPI -<DrawingFile> 9/9/2020 16:34 10/01/00.11 DatgelLib and In Situ Tool - DGD | Lib: DGDTP-5.03.2, 2020-09-08 Pj: DGDTP-DLST 5.03.1.2020-09-05

DYNAMIC PROBE LOG

Project Construction Project				PROBE No V-DP
Job No 5.03.1	Date	Ground Level (m AHD)	Co-Ordinates (MGA2020 Zone 56) E 262746.4 N 6266234.6	
Contractor Contractor 1				Sheet 1 of 5

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)						Torque (Nm)	Remarks
		5	10	15	20	25	30		
1	25								
	13								
	14								
	11								
	8								
2	9								
	12								
	9								
	14								
	9								
3	13								
	10								
	13								
	12								
	14								
4	10								
	8								
	8								
	14								
	15								
5	13								
	8								
	9								
	11								
	11								
6	12								
	8								
	15								
	9								
	14								
7	14								
	9								
	13								
	10								
	14								
	14								
	11								

DCDT-P-5.03.2-LIB.GLB_Log IS UK DYNAMIC PROBE DCDT-P-5.03.2.GPJ <<DrawingFile>> 9/9/2020 16:34 10.01.00.11 DatgelLib and In Situ Tool - DGD (Lib: DCDT-P-5.03.2-2020-09-08 Prj: DCDT-DLST-5.03.1-2020-09-05

Hammer Wt (kg)	75		GENERAL REMARKS
Hammer Drop (mm)	500		
Cone Dia (mm)	50		
Cone Type	DPSH-B		
Damper			
All dimensions in metres Scale 1:50	Client Datgel	Method/ Plant Used	Logged By

DYNAMIC PROBE LOG

Project Construction Project				PROBE No V-DP
Job No 5.03.1	Date	Ground Level (m AHD)	Co-Ordinates (MGA2020 Zone 56) E 262746.4 N 6266234.6	
Contractor Contractor 1				Sheet 2 of 5

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)						Torque (Nm)	Remarks
		5	10	15	20	25	30		
9	12								
	15								
	8								
	11								
	8								
	15								
	15								
	8								
	8								
10	14								
	10								
	15								
	8								
	12								
11	9								
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14	14								
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	15								
	16								
	16								
15	16								
	18								
	19								
	20								
	21								
	21								

DGDT-P-5.03.2-LIB.GLB_Log IS UK DYNAMIC PROBE DGDT-P-5.03.2.CPI <<DrawingFile>> 9/9/2020 16:34 10.01.00.11 DatgelLib and In Situ Tool - DGD | Lib: DGD | P: 5.03.2 | 2020-09-08 Prj: DGDT-DL-ST-5.03.1 | 2020-09-05


Hammer Wt (kg)	75		GENERAL REMARKS
Hammer Drop (mm)	500		
Cone Dia (mm)	50		
Cone Type	DPSH-B		
Damper			
All dimensions in metres Scale 1:50	Client Datgel	Method/ Plant Used	Logged By

DYNAMIC PROBE LOG

Project Construction Project				PROBE No V-DP
Job No 5.03.1	Date	Ground Level (m AHD)	Co-Ordinates (MGA2020 Zone 56) E 262746.4 N 6266234.6	
Contractor Contractor 1				Sheet 3 of 5

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)						Torque (Nm)	Remarks
		5	10	15	20	25	30		
17	11								
	22								
	21								
	23								
	24								
	26								
18	28								
	29								
	31								
	38								
	44								
	49								
19	60								
	62								
	100								
20	125								
	113								
	114								
	111								
	108								
	109								
21	112								
	109								
	109								
	114								
	109								
	113								
22	110								
	113								
	112								
	114								
	110								
	110								
23	113								
	112								
	114								
	110								
	110								
	108								

DGDT-P-5.03.2-LIB.GLB_Log IS UK DYNAMIC PROBE DGDT-P-5.03.2.CP1 <<DrawingFile>> 9/9/2020 16:34 10.01.00.11 DatgelLib and In Situ Tool - DGD | Lib: DGD | P: 5.03.2 | 2020-09-08 Pr: DGDT-DLST5.03.1.2020-09-05


Hammer Wt (kg)	75		GENERAL REMARKS
Hammer Drop (mm)	500		
Cone Dia (mm)	50		
Cone Type	DPSH-B		
Damper			
All dimensions in metres Scale 1:50	Client Datgel	Method/ Plant Used	Logged By

DYNAMIC PROBE LOG

Project Construction Project				PROBE No V-DP
Job No 5.03.1	Date	Ground Level (m AHD)	Co-Ordinates (MGA2020 Zone 56) E 262746.4 N 6266234.6	
Contractor Contractor 1				Sheet 4 of 5

Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)						Torque (Nm)	Remarks
		5	10	15	20	25	30		
25	108 114 115 113 108 109 111 111 112							108 114 115 113 108 109 111 111 112	
26	108 115 109 114 114 109							108 115 109 114 114 109	
27	113 110 114 111 112 115							113 110 114 111 112 115	
28	112 115 108 111 108 115 108 114 110 115 108 112 109 112 112 113 115							112 115 108 111 108 115 108 114 110 115 108 112 109 112 112 113 115	
29	111 108 115 115 108 114 110 115 108 112 109 112 112 113 115							111 108 115 115 108 114 110 115 108 112 109 112 112 113 115	
30	110 115 108 114 110 115 108 112 109 112 112 113 115							110 115 108 114 110 115 108 112 109 112 112 113 115	
31	111 112 112 112 113 115							111 112 112 112 113 115	

DGDT-P-5.03.2-LIB.GLB_Log IS UK DYNAMIC PROBE DGDT-P-5.03.2.CP1 <<DrawingFile>> 9/9/2020 16:34 10.01.00.11 DatgelLib and In Situ Tool - DGD | Lib: DGD | P: 5.03.2 | 2020-09-08 Pr: DGDT-DL-ST-5.03.1-2020-09-05


Hammer Wt (kg)	75		GENERAL REMARKS
Hammer Drop (mm)	500		
Cone Dia (mm)	50		
Cone Type	DPSH-B		
Damper			
All dimensions in metres Scale 1:50	Client Datgel	Method/ Plant Used	Logged By

DYNAMIC PROBE LOG

Project Construction Project				PROBE No V-DP
Job No 5.03.1	Date	Ground Level (m AHD)	Co-Ordinates (MGA2020 Zone 56) E 262746.4 N 6266234.6	
Contractor Contractor 1				Sheet 5 of 5

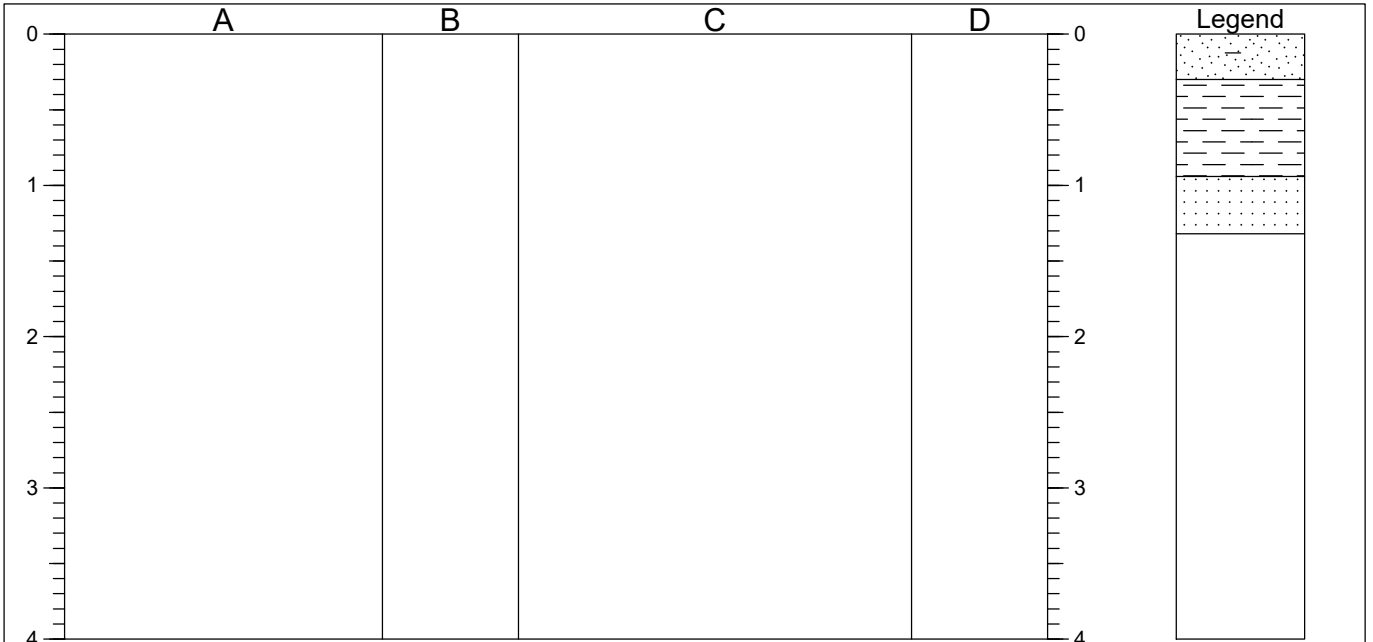
Depth (m)	Readings (blows/100mm)	Diagram (N100 Values)						Torque (Nm)	Remarks
		5	10	15	20	25	30		
33	112							112	
	112							112	
	115							115	
	110							110	
	110							110	
	111							111	
	110							110	
	114							114	
	114							114	
34	115							115	
	115							115	
	116							116	
	116							116	
35	118							118	
	119							119	
	120							120	
	121							121	
36	121							121	
	122							122	
	121							121	
	123							123	
37	124							124	
	126							126	
	128							128	
	129							129	
38	131							131	
	138							138	
	144							144	
	149							149	
	160							160	
	162							162	
39	200							200	

DCDT-P-5.03.2-LIB.GLB Log IS UK DYNAMIC PROBE DCDT-P-5.03.2.CP1 <<DrawingFile>> 9/9/2020 16:34 10.01.00.11 DatgelLab and In Situ Test - DGD | Lib: DCDT-P-5.03.2-2020-09-08 Prj: DCDT-DL-ST-5.03.1-2020-09-05

Hammer Wt (kg)	75		GENERAL REMARKS
Hammer Drop (mm)	500		
Cone Dia (mm)	50		
Cone Type	DPSH-B		
Damper			
All dimensions in metres Scale 1:50	Client Datgel	Method/ Plant Used	Logged By

TRIAL PIT LOG

Project Construction Project				TRIAL PIT No V-TP AS	
Job No 5.03.1	Date 1/7/2008 5/7/2008	Ground Level (m AHD) 25.25	Co-Ordinates (MGA2020 Zone 56) E 262526.6 N 6266337.4		
Contractor Contractor 1				Sheet 1 of 1	

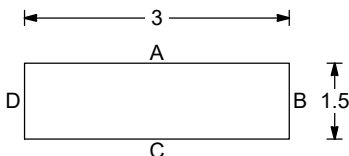


STRATA

SAMPLES & TESTS

Depth	No	DESCRIPTION	Depth	No	Remarks/Tests
0.00-0.30		TOPSOIL Clayey SAND trace gravel: fine to medium grained, brown; organic matter; soft; wet.			
0.30-0.94		Sandy CLAY trace sand trace gravel: medium plasticity, yellow and brown; pockets of yellow sand; very stiff to hard; moist.	0.45-0.60	D01A	
0.94-1.32		SANDSTONE: fine to medium grained, off white and dark orange; moist; low strength; extremely weathered.			
		Hole Terminated at 1.32 m			

Shoring/Support: None
Stability: Stable



V-TP AS

GENERAL REMARKS



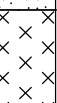
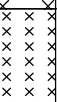
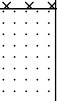


Refusal

All dimensions in metres Scale 1:50	Client Datgel	Method/ Plant Used Edson 3000	Logged By PB
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DGDTP-5.032.LIB.GLB Log IS UK TRIAL PIT DGDTP-5.032.GPJ <-DrawingFile>> 9/9/2020 16:35 10.01.00.11 Datgel Lab and in Situ Tool - DGD Lib: DGDTP-5.032.2020-09-09.Pjt DGDTP-5.03.1.2020-09-05

Hole ID **V-Vibrocore**

CLIENT : Datgel	POSITION : NCW	DATE : 1/7/2008
CONTRACTOR : BWME	EASTING : 262288.1 m	EQUIPMENT : Edson 3000
PROJECT : Construction Project	NORTHING : 6265741.4 m	BARREL DIA. : 20 mm
LOCATION : Somewhere, World	COORD. SYS. : MGA2020 Zone 56	BARREL LENGTH : 5 m
PROJECT No. : 5.03.1	GROUND RL : -1.63 m AHD	CONTRACTOR : BWME
		OPERATOR : EFG

Depth (m)	Depth (m)	Graphic Log	Description	Elevation (m AHD)	Sample	D50 (mm)	% Fines (< 0.075 mm)	% Sand (0.075- 2.36 mm)	% Coarse (> 2.36 mm)	DMF-Total (mm)	D60/D10	% CaCO ₃	Remarks
	1.00		CLAY: clay is low plasticity; very soft to soft.		C1				0.00				Diver reports flat seabed with probe refusal at 0.57m. Material description based on grab sample.
					C				0.00				
	1.50		Clayey SAND: fine to medium grained, green; very soft to soft. aaa	-2.63		0.695	8.50	70.1	21.4	2.18	11.2	1.50	
	2.00		Firm light SILT	-3.13	C2				0.00				
	2.50		SILTSTONE: fine grained, pale yellow, something extra.	-3.63					0.00				
	3.00		SANDSTONE	-4.13					0.00				No recovery
	3.00		Green	-4.63									
	5.00		Hole Terminated at 5.00 m	-6.63									

DGDJ-P-5.032.LIB.GLB.Lib.DGDJ-P-5.032.2020-09-08.Fly.DGDJ-DLST.03.1.2020-09-08

WATER DEPTH : 0.85 m	
DATE TIME : 3/7/2008 16:32:00	
TIDE ELEVATION : -3.56 m	
PENETRATION : 5.0 m	
RECOVERY : 0.3 m	
DURATION : 60.0 min	
LOGGED BY : PB	DATE: 4/7/2008
CHECKED BY : CB	DATE: 4/7/2008
APPROVED BY : AB	DATE: 5/7/2008

V-Vibrocore



General Remarks
 After (Roller) Completion.
 Water encountered at 0.85 m.

CLIENT : Datgel	POSITION : NCW	Water Depth: 0.85 m
CONTRACTOR : BWME	EASTING : 262288.1 m	Tide: -3.56 m
PROJECT : Construction Project	NORTHING : 6265741.4 m	Corr. Depth: -1.63 m
LOCATION : Somewhere, World	COORD. SYS. : MGA2020 Zone 56	Vertical Datum:> AHD
PROJECT No. : 5.03.1	GROUND RL : -1.63 m AHD	Operator: EFG
		Logged By: PB

Elevation (m)	Depth (m)	Graphic Log	Penetration	Recovery	Description	Sample	D50 (mm)	% Fines (< 0.075 mm)	% Sand (0.075- 2.36 mm)	% Coarse (> 2.36 mm)	DMF- Total (mm)	D60/D10	% CaCO ₃	Remarks
-2.0					CLAY: clay is low plasticity; very soft to soft.	C1				0.00				Diver reports flat seabed with probe refusal at 0.57m. Material description based on grab sample.
						C				0.00				
1.0					Clayey SAND: fine to medium grained, green; very soft to soft. aaa		0.695	8.50	70.1	21.4	2.18	11.2	1.50	No recovery
-3.0					Firm light SILT	C2				0.00				
2.0					SILTSTONE: fine grained, pale yellow, something extra.					0.00				
-4.0					SANDSTONE					0.00				
3.0					Green									
-5.0			5.00 m	5.00 m	Hole Terminated at 5.00 m After (Roller) Completion. Water encountered at 0.85 m.									
-7.0														

DGDTP-5.032.LIB.GLB.Log IS VIBROCORE 2 DGDTP-5.032.GPJ <DrawingFile> 9/9/2020 16:35:10.01.00.11 Datgel Lab and In Situ Test - DGD | Lib: DGDTP-5.032.2020-09-08 Pj: DGDTP-DLST 5.03.1.2020-09-05

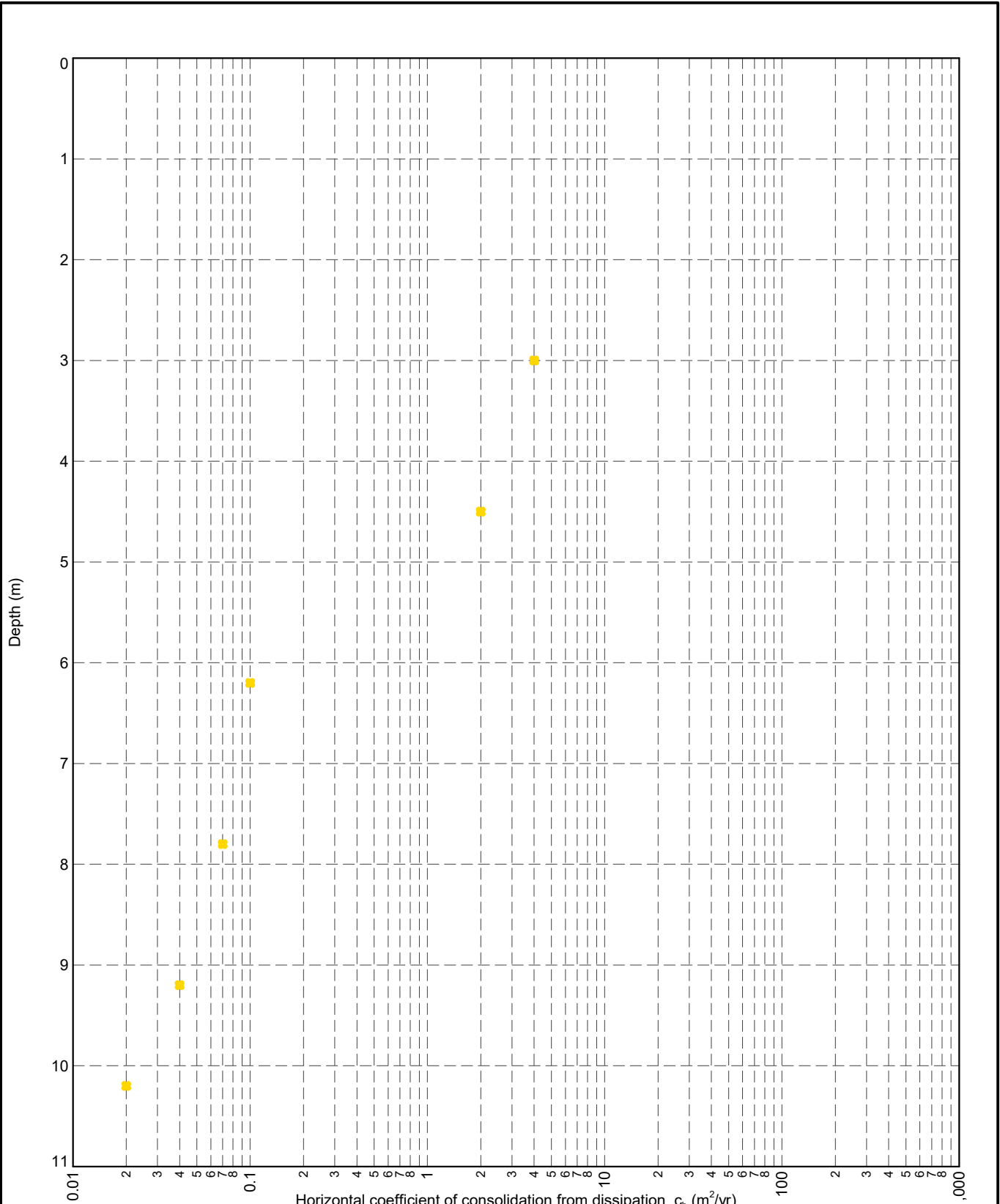
Equipment: Edson 3000
 Barrel Diameter: 20.00 mm Barrel Length: 5.00 m
 Recovery: 5.00 m
 Duration: 60.00 min

DDOT-P-5.03.2 LIB.GLB Log IS VIBROCORE + DDOT-P-5.03.2.GPJ <<DrawingFile>> 9/9/2020 16:35 10.01.00.11 D:\gei\lib\area\in\Site\Tool - DGD\Lib - DDOT-P-5.03.2 2020-08-08 P1 - DDOT-DLST 5.03.1 2020-09-05

Elevation (m)	Depth (m)	Graphic Log	Classification Symbol	Material Description	Rel (m-RL)	Depth (m)	Sample	Specimen	Pocket penetrometer	Pocket torvane	Wet density	Dry density	Moisture content	Particle density	Atterberg w _L	Atterberg w _p	Atterberg I _p	Liquidity index I _L	Linear shrinkage	Clay	Silt	Fines	HCl-reaction	% CaCO ₃	Loss of ignition	Organic Matter	Thermal Conductivity	Environmental: Organics	Environmental: Metals / PSA	Environmental: Acid Sulphates	Remarks		
Rel (m-RL)	Abs (m)				Rel (m-RL)	Abs (m)			kN/m ²	kN/m ²	Mg/m ³	Mg/m ³	%	Mg/m ³	%	%	%	%	%	%	%	%	%	%	%	W/(K.m)							
-2.0			CL	CLAY: clay is low plasticity; very soft to soft.	-2.0		C-1		^ 400 ^ 350		1.50	1.30	15.0	2.65					55				+		20	5	1.5				Diver reports flat seabed with probe refusal at 0.57m. Material description based on grab sample.		
1.0			SP	Clayey SAND: fine to medium grained, green; very soft to soft. aaa	-3.0	1.0			400		1.90	1.67	14.0		10	6	4	2	65			1.7	8.5	0	1.5	30							
2.0			ML	Firm light SILT	-4.0	2.0	C-2																										
3.0				SILTSTONE: fine grained, pale yellow, something extra.	-4.0	3.0																											
4.0				SANDSTONE	-5.0	4.0																											
5.0				Green	-5.0	5.0																											
5.0				Hole Terminated at 5.00 m	-7.0	5.0																											

Remarks: After (Roller) Completion. Water encountered at 0.85 m.	Client : Datgel	Project Number : 5.03.1	Hole ID : V-Vibrocore
	Contractor : Contractor 1	Project Name : Construction Project	Elevation : -1.63 m AHD
	Drilling method : VC	Project Location : Somewhere, World	Coordinate System : MGA2020 Zone 56
	Drilling diameter : 100/90/80 mm		Status : 0
	Logged By : PB		Drilling date : 1/7/2008 - 5/7/2008
	Checked By : CB		Easting : 262288.1 m
			Northing : 6265741.4 m

DGD1-P.5.03.1 LIB.GLB Graph A IS CHVIS DEPTH BY PTID_DGD1-P.5.03.2.GPJ -<DrawingFiles> 9/9/2020 16:35:10.01.00.11 Datgel Lab and In Situ Tool - DGD [Lib: DGD1-P.5.03.2.2020-09-08 Proj: DGD1-DIST.5.03.1.2020-09-05]



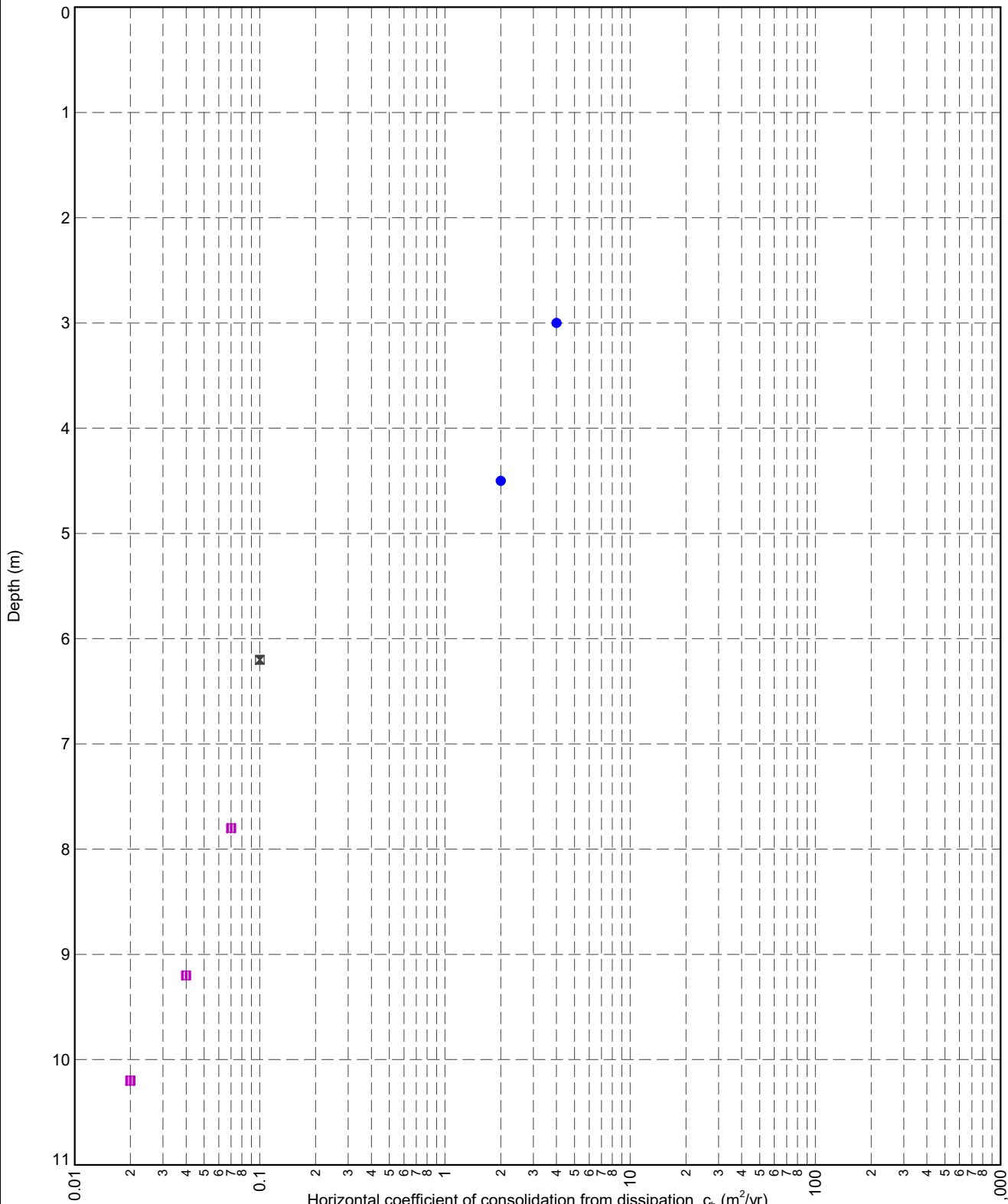
PointID Legend
■ CPT 05



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 c_h from Dissipation Test vs. Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	66

DGD1-P.5.03.1.GLB Graph A IS CHYS DEPTH BY UNIT DGD1-P.5.03.2.GP1 <<DrawingFile>> 9/9/2020 16:35:10:01:00:11 Datgel Lab and In Situ Tool - DGD | Lib: DGD1-P.5.03.2.2020-09-08 Proj: DGD1-DIST 5.03.1.2020-09-05



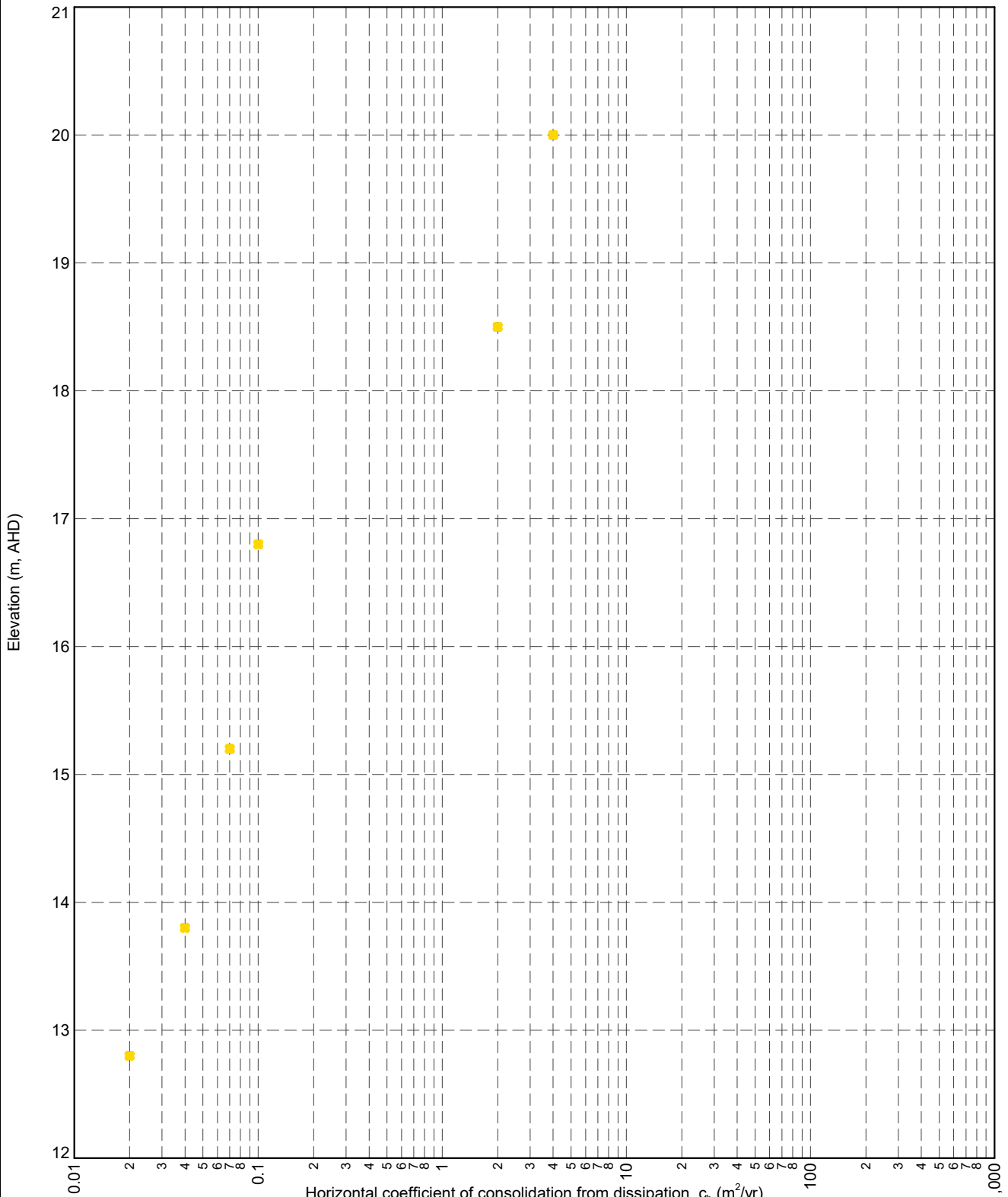
Geology Unit Legend
 ■ B - Beach (Littoral)
 ● A - Unit A
 ■ C - Unit C



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 c_h from Dissipation Test vs. Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	67

DGD1-P.5.03.2.LIB.GLB Graph A IS CHVIS RLY FTID DGD1-P.5.03.2.GPJ <DrawingFile> 9/9/2020 16:35 10/01/00.11 Datgel Lab and In Situ Tool - DGD [Lib.DGD1-P.5.03.2 2020-09-08 Plt.DGD1-DLST.5.03.1 2020-09-05



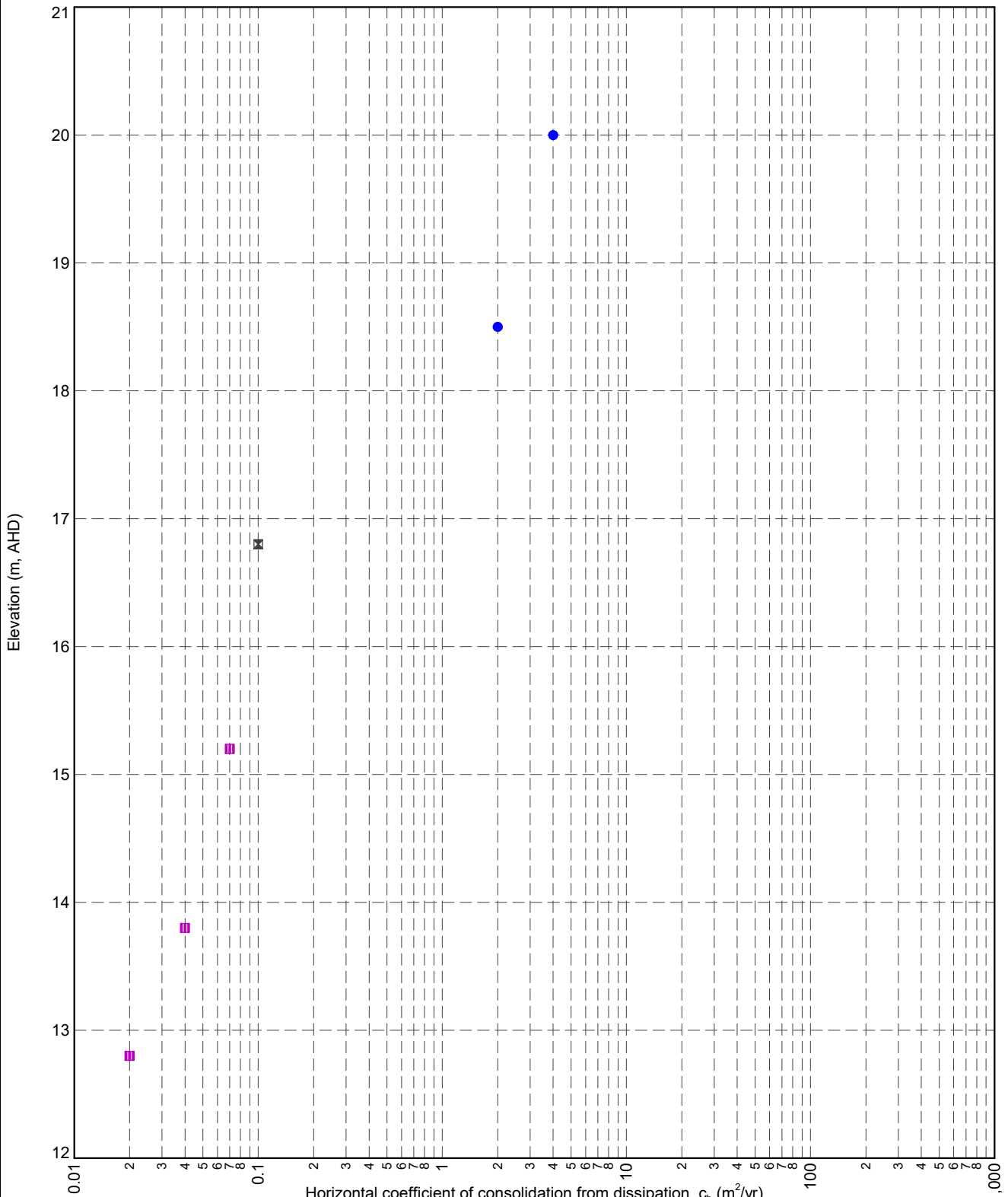
PointID Legend
■ CPT 05



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 c_h from Dissipation Test vs. Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	68

DGD1-P.5.03.1-UB.GLB_Corrupt_A IS CHYVS RLY BY UNIT DGD1-P.5.032.GPJ <<DrawingFiles>> 9/9/2020 16:35 10.01.00.11 Datgel Lab and In Situ Tool - DGD - DGD1-P.5.03.2.2020-09-08 Proj: DGD1-UB-ST-5.03.1.2020-09-05



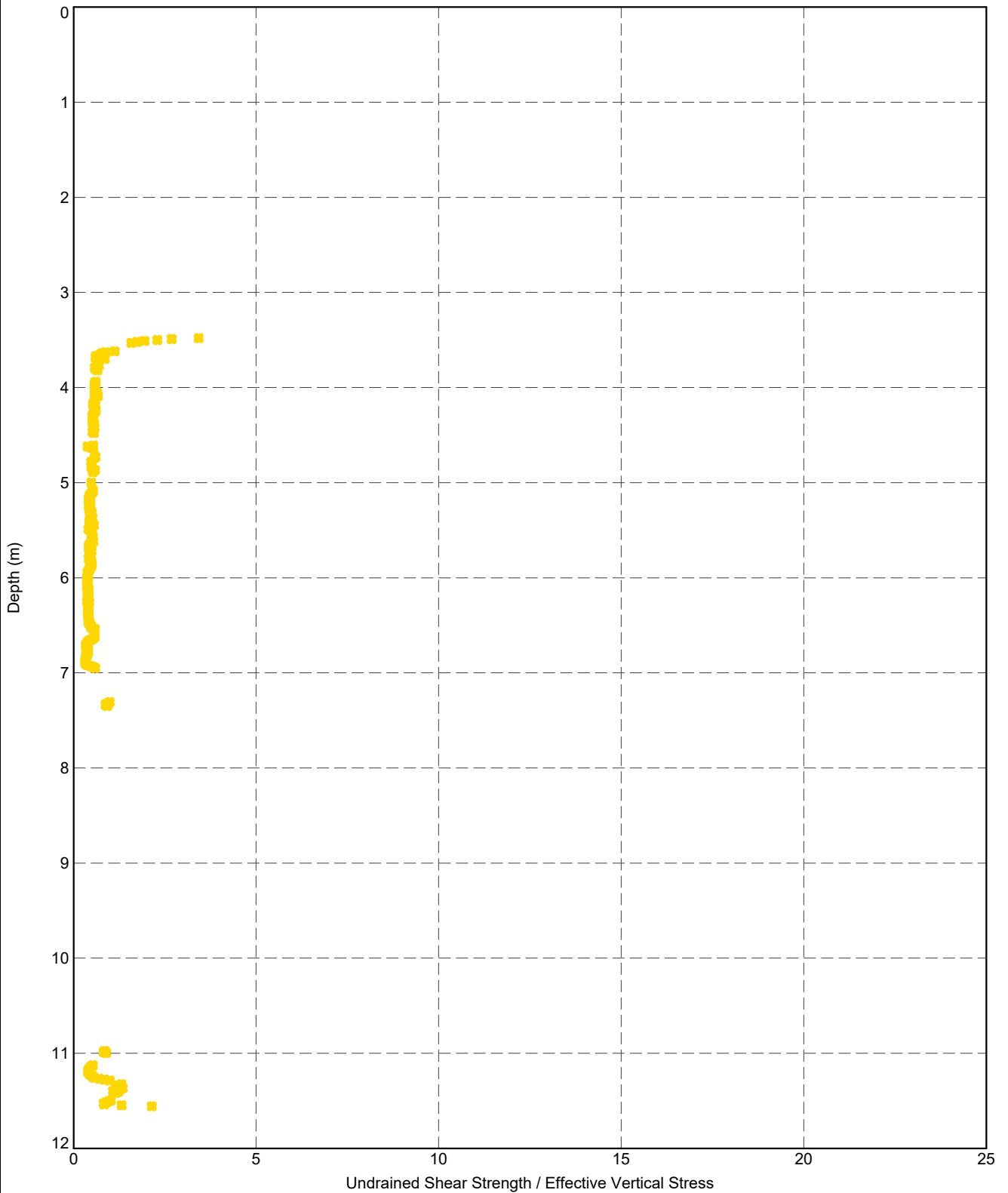
Geology Unit Legend
 ■ B - Beach (Littoral)
 ● A - Unit A
 ■ C - Unit C



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 c_h from Dissipation Test vs. Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	69

DGD1-P-5.03.2-UB-GLB-Graph-A-IS-CPT-NORMALISED-SUVS-DEPTH-BY-PTID-DGD1-P-5.03.2-2020-09-08-F1-DGD1-DST-5.03.1-2020-09-05



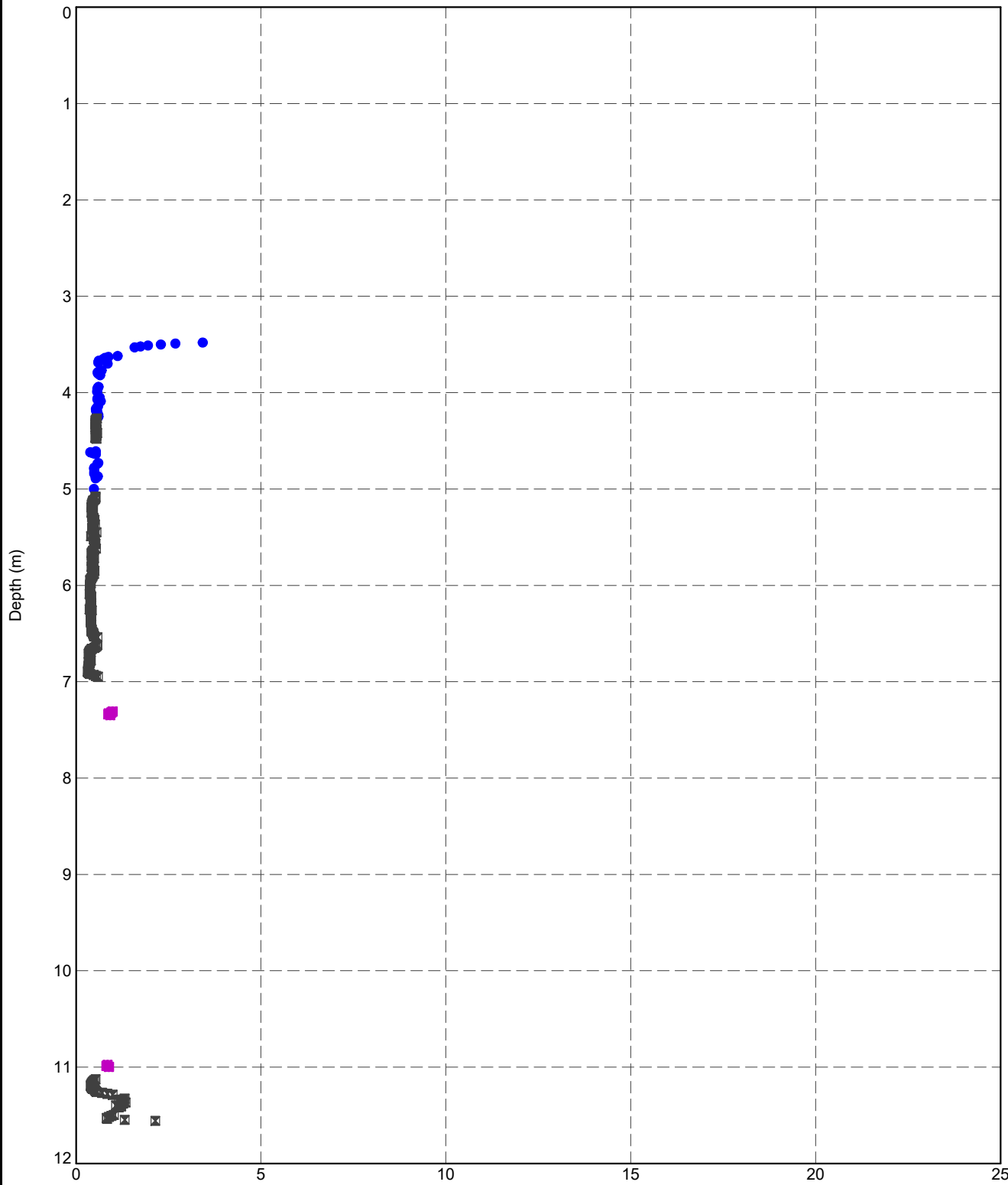
PointID Legend
 ■ CPT 05



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Normalised Undrained Shear Strength vs.
 Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	70

DGD1-P.5.03.2.LIB.GLB_Graph_A IS CPT NORMALISED SU VS DEPTH BY UNIT_DGD1-P.5.03.2.GPJ -<DrawingFile> 9/9/2020 16:35:10.01.00.11_Datgel.Lab.and.In.Situ.Test - DGD1 [Lib: DGD1-P.5.03.2.2020-09-08 Proj: DGD1-DLST.5.03.1.2020-09-05]



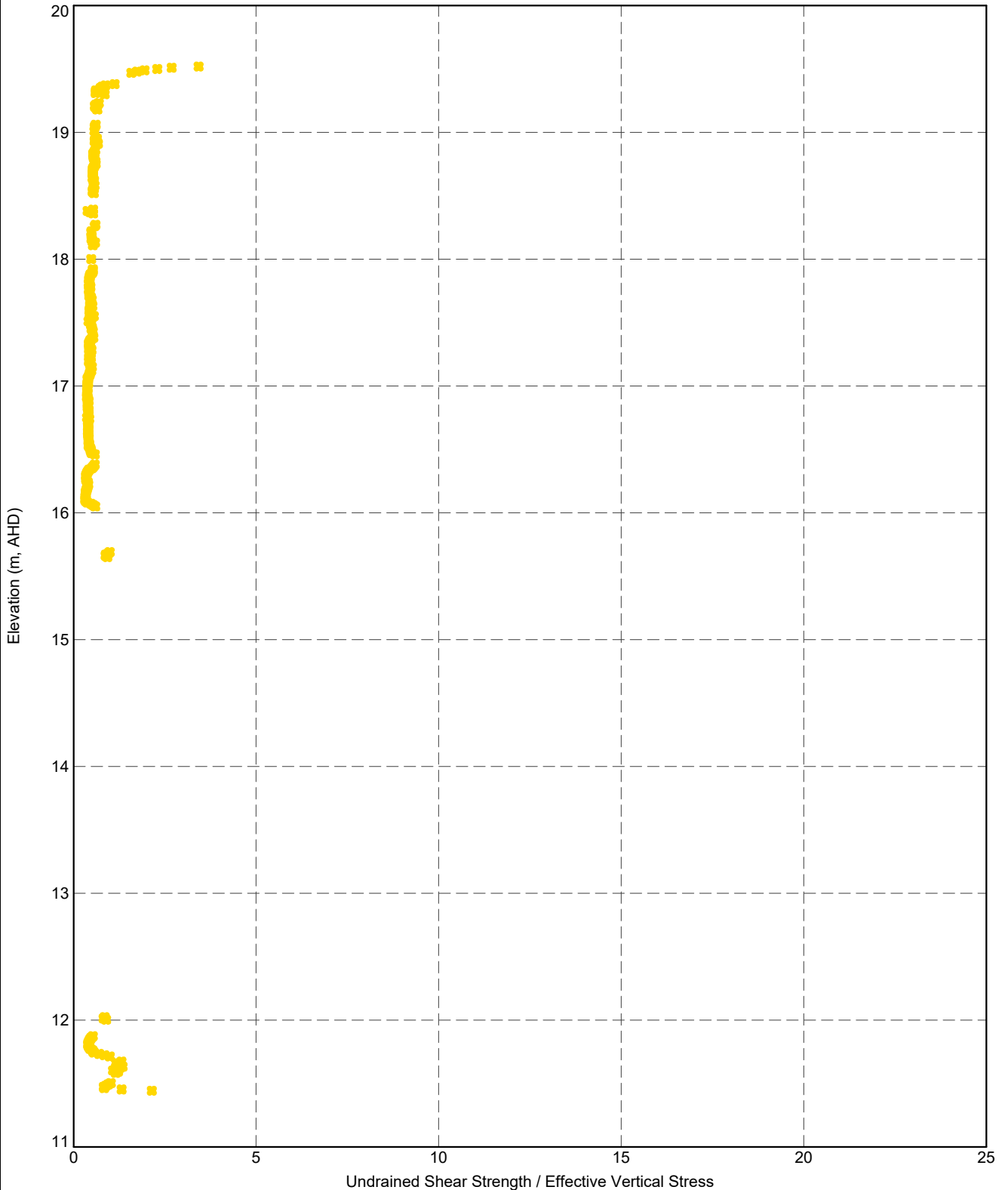
Geology Unit Legend
 ☒ B - Beach (Littoral)
 ● A - Unit A
 ■ C - Unit C



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Normalised Undrained Shear Strength vs.
 Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	71

DGD1-P.5.03.2.LIB.GLB_Graph_A IS CPT NORMALISED SUVS RL BY PTID DGD1-P.5.03.2.GPJ -> DrawingFile -> 9/9/2020 16:36 10.01.00.11 Datgel Lib and In Situ Test - DGD Lib DGD1-P.5.03.2 2020-09-08 P1; DGD1-D1 ST 5.03.1 2020-09-05



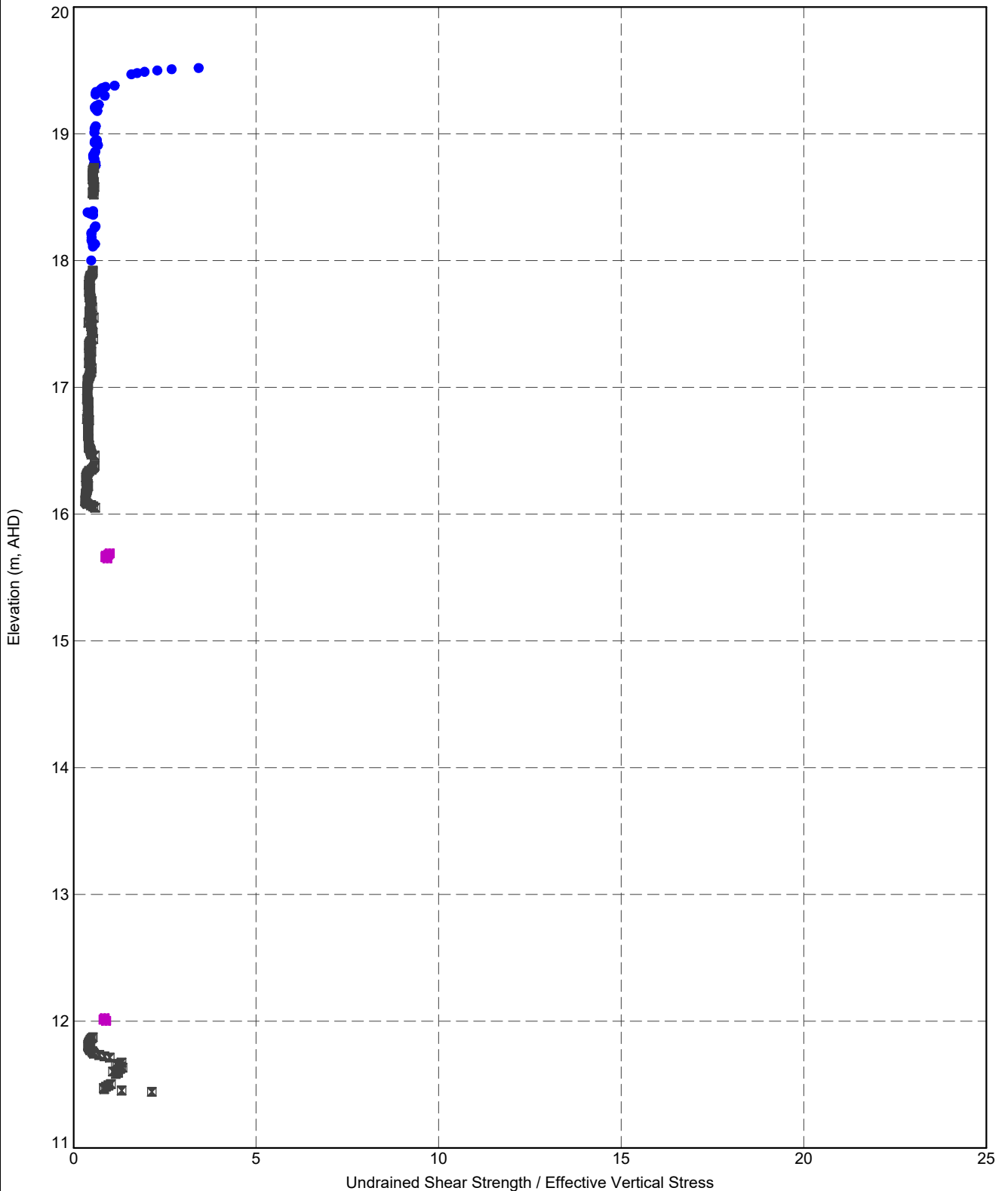
PointID Legend
■ CPT 05



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Normalised Undrained Shear Strength vs. Elev.

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	72

DGD1-P.5.03.2.LIB.GLB_Graph_A IS CPT NORMALISED SUVS RL BY UNIT DGD1-P.5.03.2.GPJ <DrawingFile> 9/9/2020 16:36 10.01.00.11 Datgel Lab and in Situ Tool - DGD1.LIB.DGD1-P.5.03.2.20200908.Pjt; DGD1-DUST.5.03.1.2020-08-05



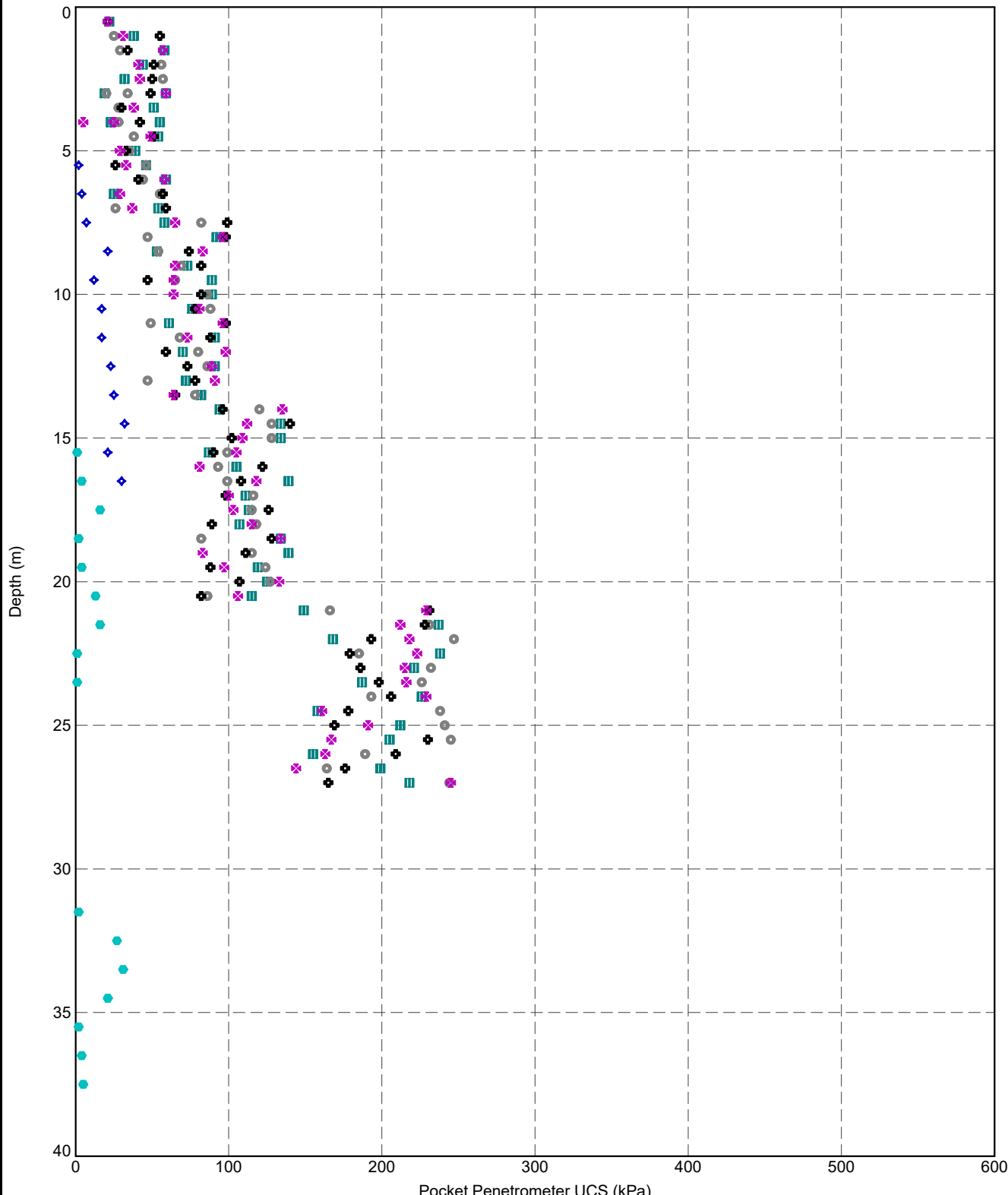
Geology Unit Legend
 x B - Beach (Littoral)
 ● A - Unit A
 ■ C - Unit C



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Normalised Undrained Shear Strength vs. Elev.

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	73

DGD1-P-5.03.2-LIB-GLB-Graph-A-IS-PP-UCS-VS-DEPTH-BY-PTID-DGD1-P-5.03.2-GPJ--DrawingFile> 9/9/2020 16:36 10.01.00.11 Datgel Lab and In Situ Tool - DGD [Lib: DGD1-P-5.03.2-2020-09-09-PJ] DGD1-CL1 5.03.1 2020-09-05



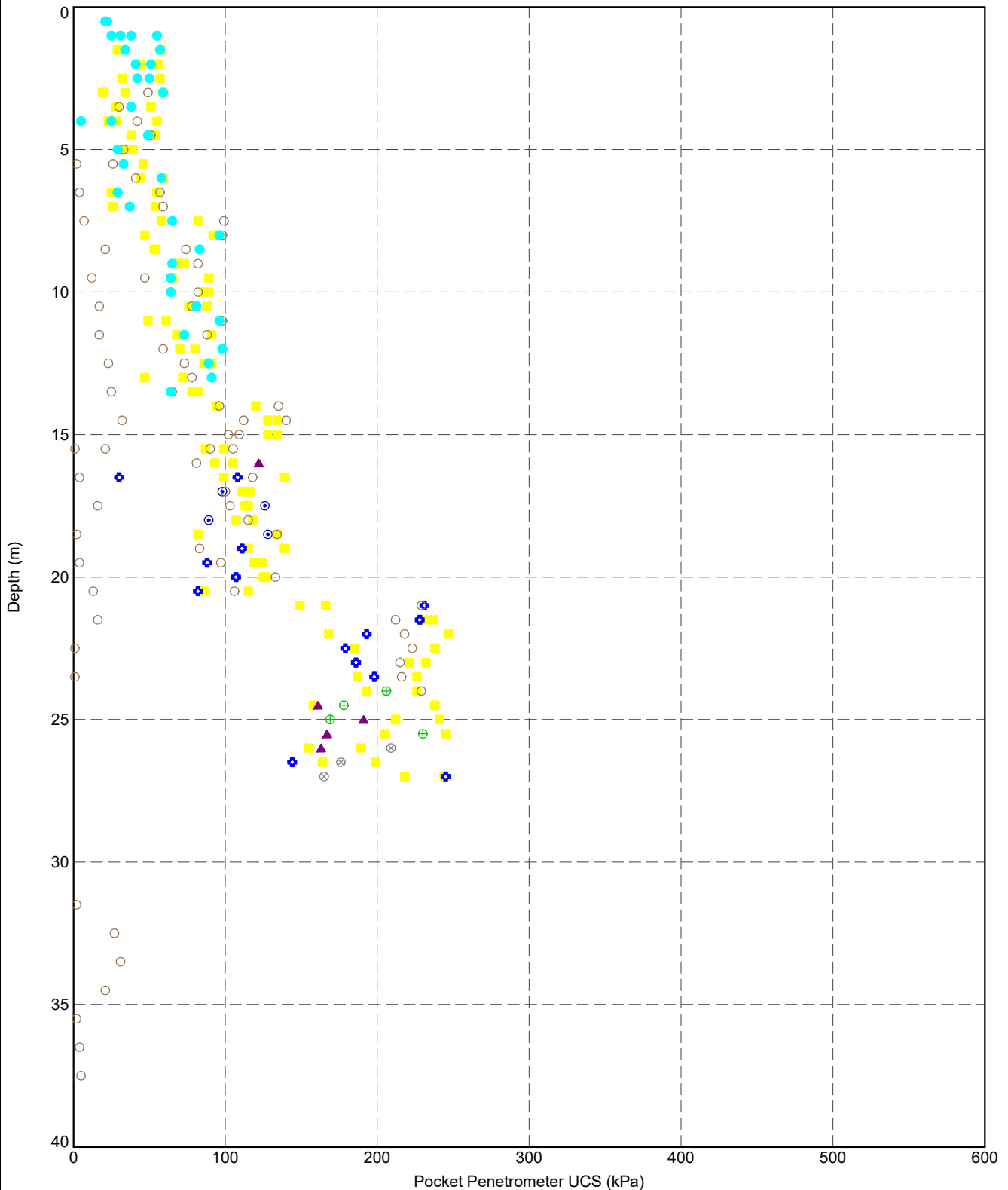
- PointID Legend**
- ST/1090A
 - ST/1090B/PRM
 - ⊕ ST/1149A
 - ◆ ST/1149B/VST_PZW
 - ✕ ST/1162A/PZW
 - ST/1162B/VST_PZW



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Pocket Penetrometer UCS vs. Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	74

DGD1-P.5.03.1.GLB_Graph_A IS PP UCS VS DEPTH BY UNIT DGD1-P.5.03.2.GPJ -> Drawing#> 982020.16.36.1001.001.1 Datgel Lab and In Situ Tool - DGD [Lib: DGD1-P.5.03.2.2020-09-08 Proj: DGD1-01-ST.5.03.1.2020-09-05]



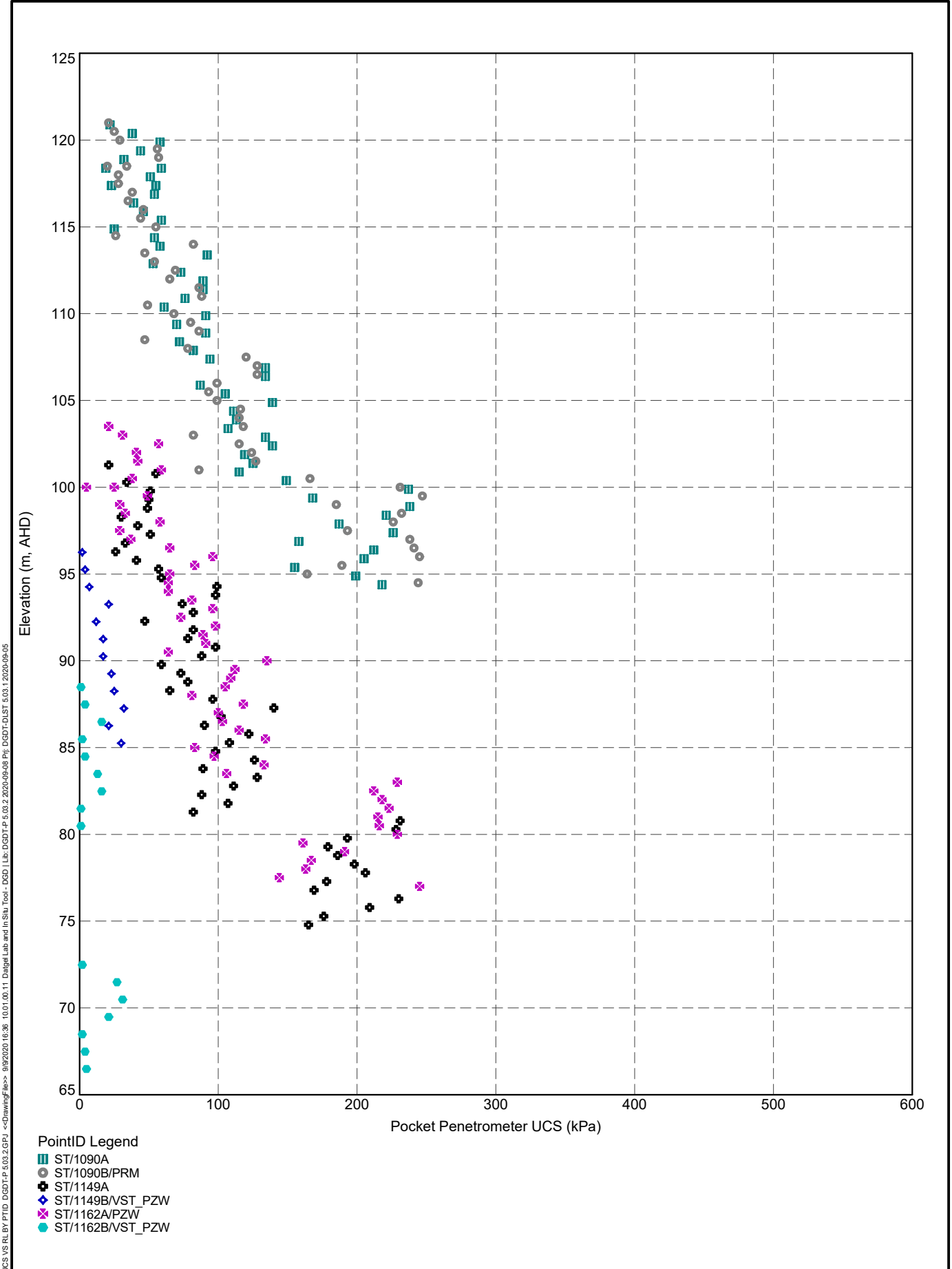
Geology Unit Legend

- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- F1 - Alluvial soil (Granular)
- ⊕ F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- △ O(A) - Old Alluvium (Unweathered)
- ⊗ O(B) - Old Alluvium (Partially weathered)
- ⊕ O(C) - Old Alluvium (Distinctly weathered)
- G(VI) - Granite (rocks & associated soils) Residua...
- G(V) - Granite (rocks & associated soils) Comple...
- ✱ G(IV) - Granite (rocks & associated soils) Highly ...
- G(III) - Granite (rocks & associated soils) Modera...
- G(II) - Granite (rocks & associated soils) Slightl...



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Pocket Penetrometer UCS vs. Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	75



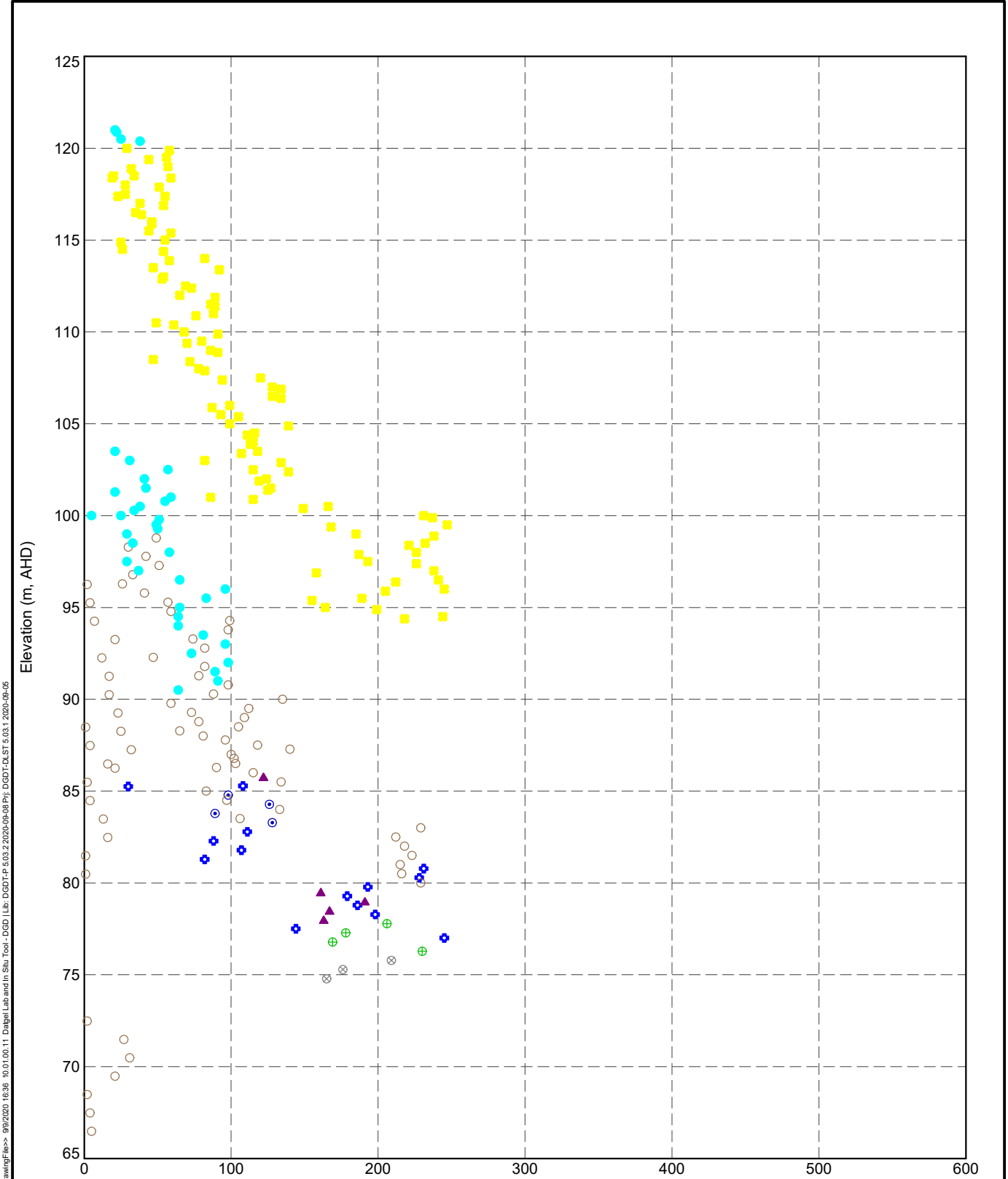
PointID Legend
 ■ ST/1090A
 ● ST/1090B/PRM
 ✖ ST/1149A
 ◆ ST/1149B/VST_PZW
 ✖ ST/1162A/PZW
 ● ST/1162B/VST_PZW



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Pocket Penetrometer UCS vs. Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	76

DGD1-P.5.03.2.LIB.GLB - Graph - A IS PP UCS VS RLY BY PTID - DGD1-P.5.03.2.GPJ - <<DrawingFile>> 9/9/2020 16:36 10/01/00.11 - Datgel Lab and In Situ Tool - DGD1 - Lib: DGD1-P.5.03.2.2020-09-08 Proj: DGD1-DIST.5.03.1.2020-09-05



DGDTP-5.03.1.GLB_Graph_A IS PP UCS VS RLY BY UNIT DGDTP-5.03.2.GPJ <<DrawingFile>> 9/9/2020 16:36 10.01.00.11 Datgel.Lab and In Situ Tool - DGD | Lib: DGDTP-5.03.2.2020-09-08 Proj: DGDTP-5.03.1.2020-09-05

Geology Unit Legend

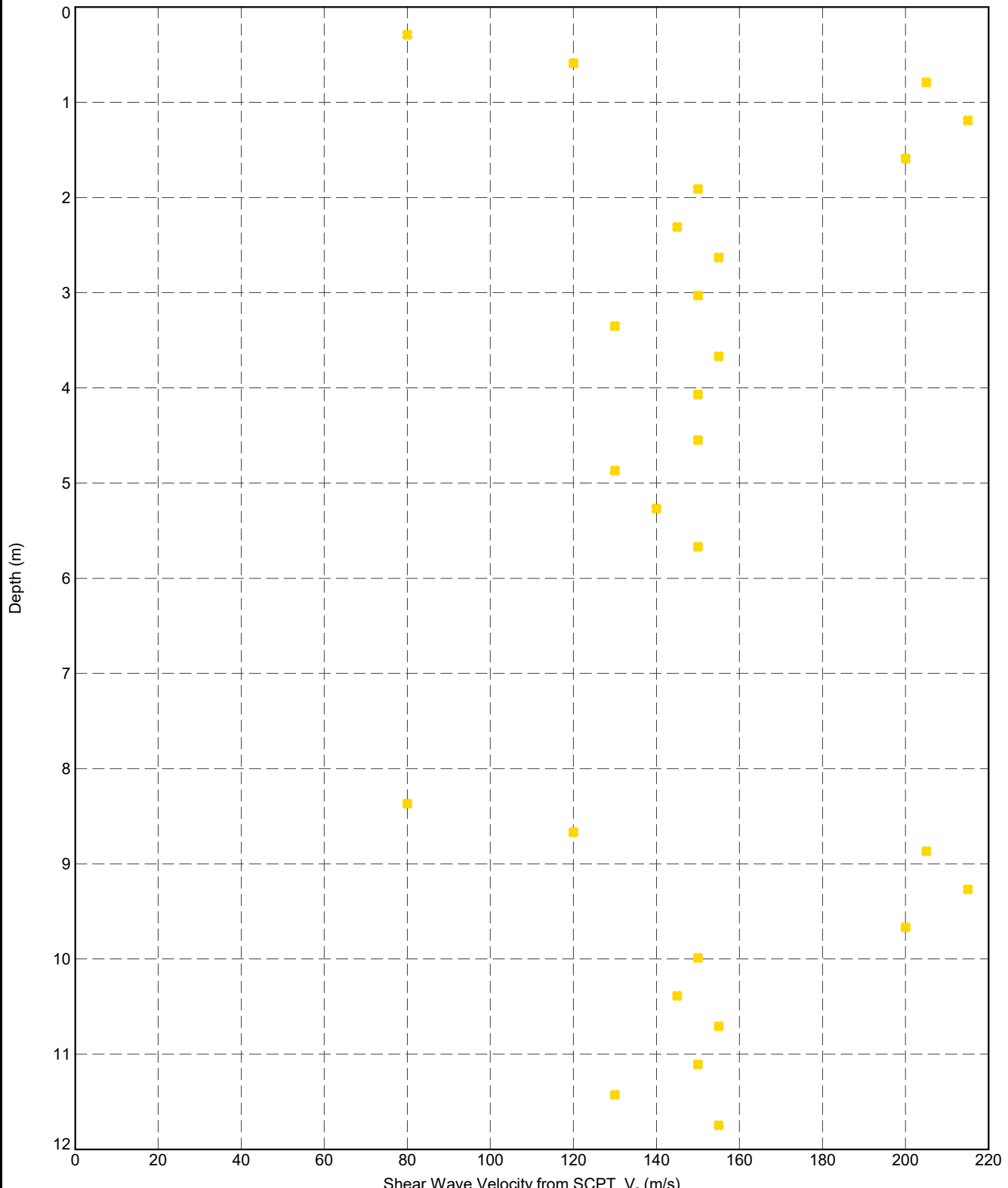
- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- F1 - Alluvial soil (Granular)
- F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- △ O(A) - Old Alluvium (Unweathered)
- O(B) - Old Alluvium (Partially weathered)
- + O(C) - Old Alluvium (Distinctly weathered)
- G(VI) - Granite (rocks & associated soils) Residua...
- G(V) - Granite (rocks & associated soils) Comple...
- ✱ G(IV) - Granite (rocks & associated soils) Highly ...
- G(III) - Granite (rocks & associated soils) Modera...
- G(II) - Granite (rocks & associated soils) Slightl...



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
Pocket Penetrometer UCS vs. Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	77

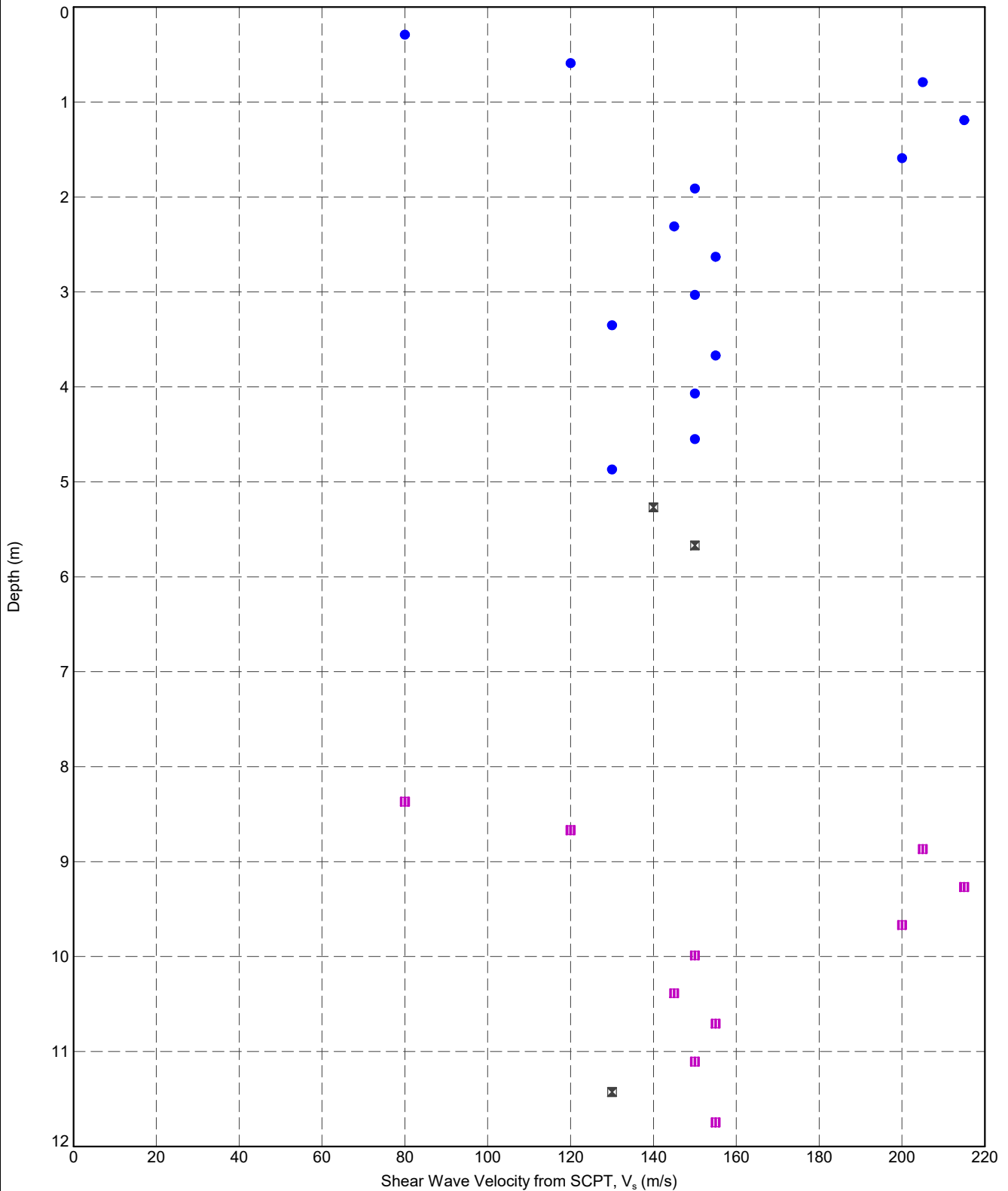
DGD1-P-5.03.2.GB Graph A IS SCPT VS DEPTH BY PLOT DGD1-P-5.03.2.GP1 <<DrawingFile>> 9/9/2020 16:38 10.01.00.11 Datgel Lab and In Situ Tool - DGD1 | Lib. DGD1-P-5.03.2.2020-09-08 P1 | DGD1-DLST 5.03.1.2020-09-05



PointID Legend
■ CPT 05

	TITLE Datgel Engineer 1 Somewhere, World Construction Project Shear Wave Velocity from SCPT, V_s vs. Depth	DRAWN PMW	DATE 9/9/2020
		CHECKED	DATE 9/9/2020
		SCALE Not To Scale	A4
		PROJECT No 5.03.1	FIGURE No 78

DGD1-P.5.03.2.LIB.GLB_Graph_A IS SCPT VS DEPTH BY UNIT_DGD1-P.5.03.2.GPJ <<DrawingFile>> 9/9/2020 16:38 10:01:00.11 Datgel Ltd and H. Sulu Teol - DGD | Lib: DGD1-P.5.03.2.2020-09-08 Pj: DGD1-DLST.5.03.1.2020-09-06

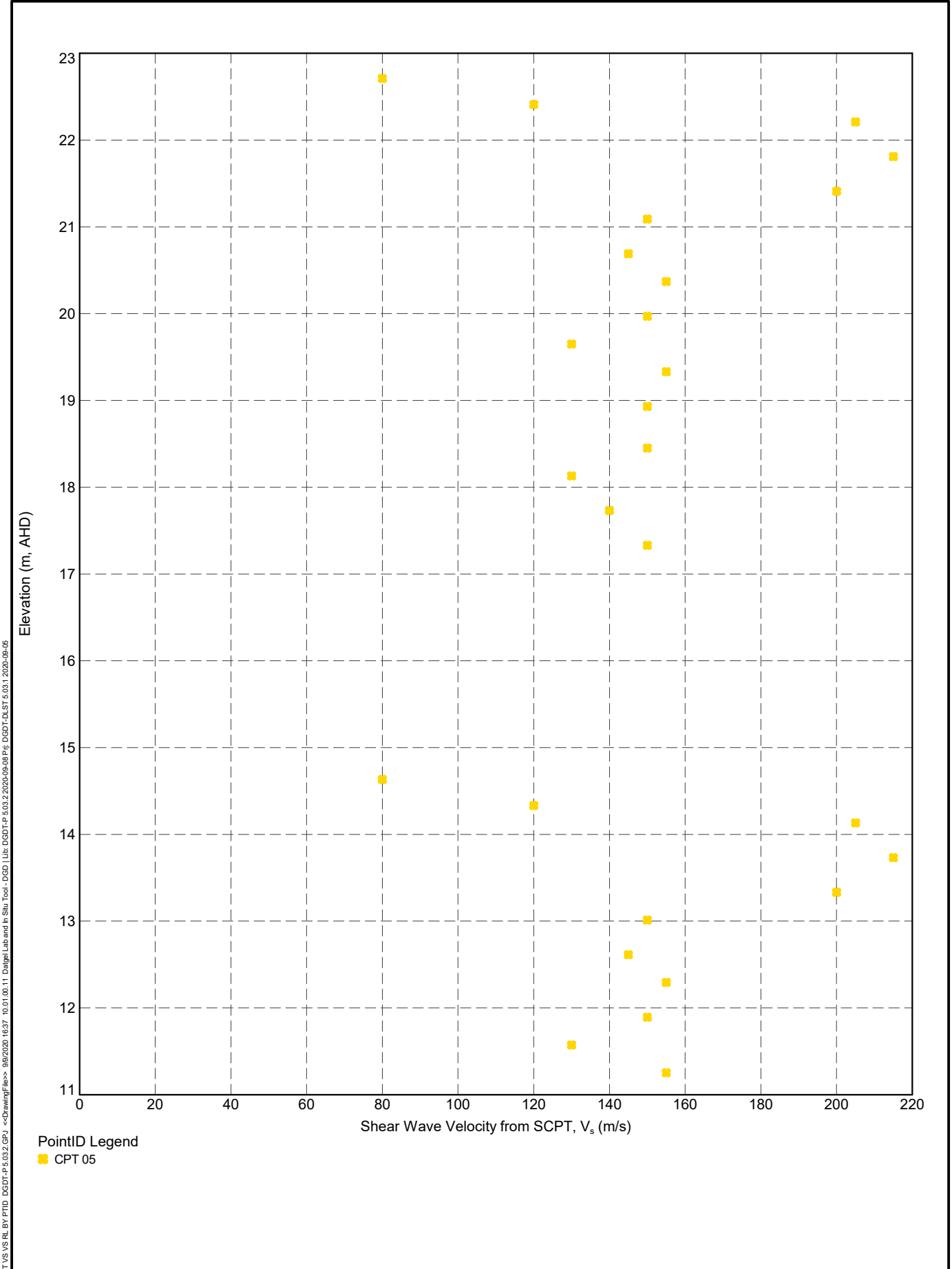


Geology Unit Legend
 x B - Beach (Littoral)
 ● A - Unit A
 ■ C - Unit C



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Shear Wave Velocity from SCPT, V_s vs. Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	79



PointID Legend
■ CPT 05

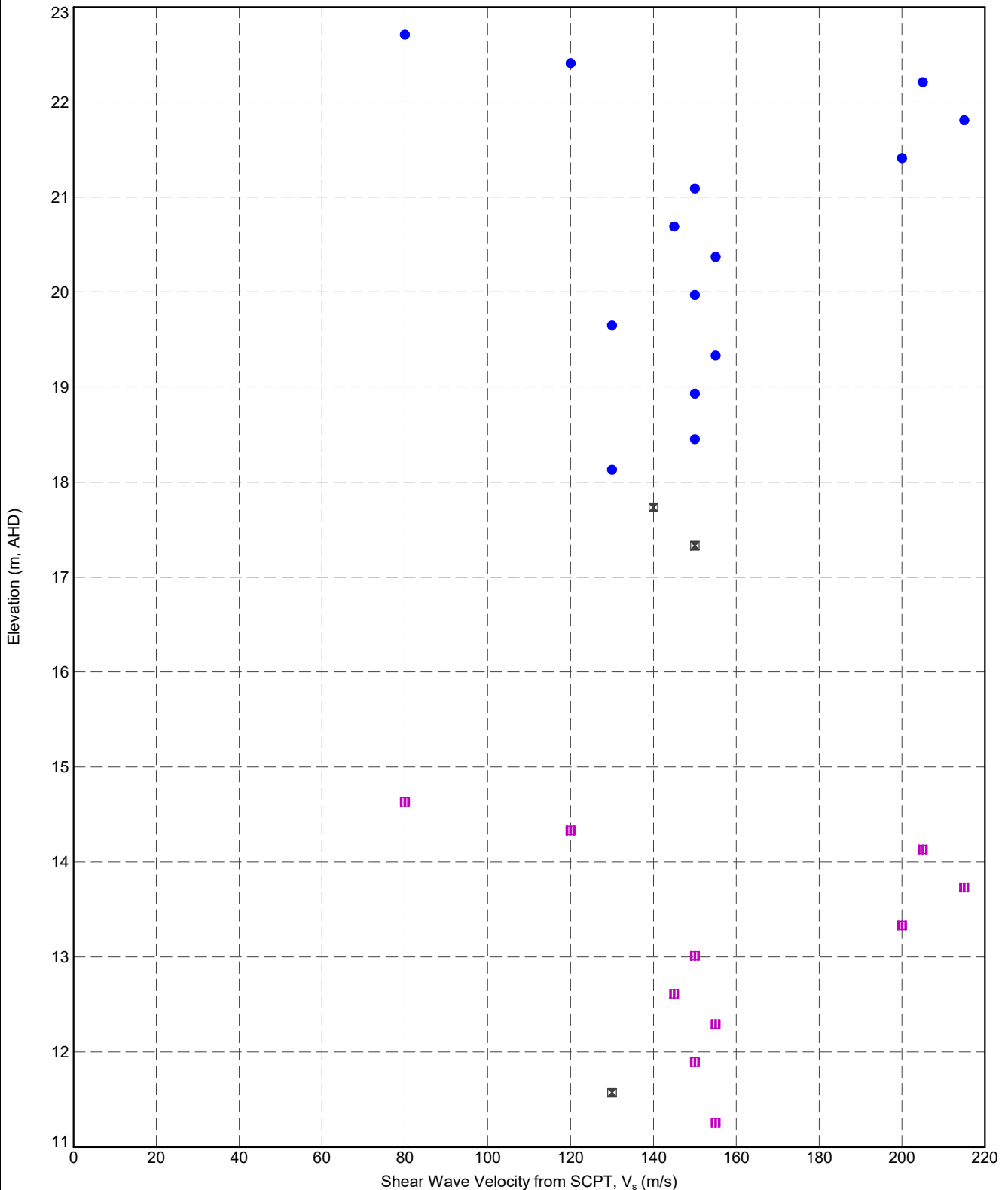
DGD1-P.5.03.2.LIB.GLB_Graph_A IS SCPT VS VS RL BY PTID_DGD1-P.5.03.2.GPJ --Drawing#> 99/2020.1637 10.01.00.11 Datgel Lab and In Situ Tool -DGD -DGD1-P.5.03.2.2020-09-09.P1; DGD1-CL-ST.5.03.1.2020-09-05



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Shear Wave Velocity from SCPT, V_s vs. Elev.

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	80

DGD1-P.5.03.2.LIB.GLB_Graph_A IS SCPT VS VS RL BY UNIT DGD1-P.5.03.2.GPJ --DrawingFile--> 9/9/2020 16:37:10 (1,00,11) Datgel Lab and In Situ Tool - DGD [Lib: DGD1-P.5.03.2.2020-09-09 Ph: DGD1-D1 ST 5.03.1, 2020-09-05]



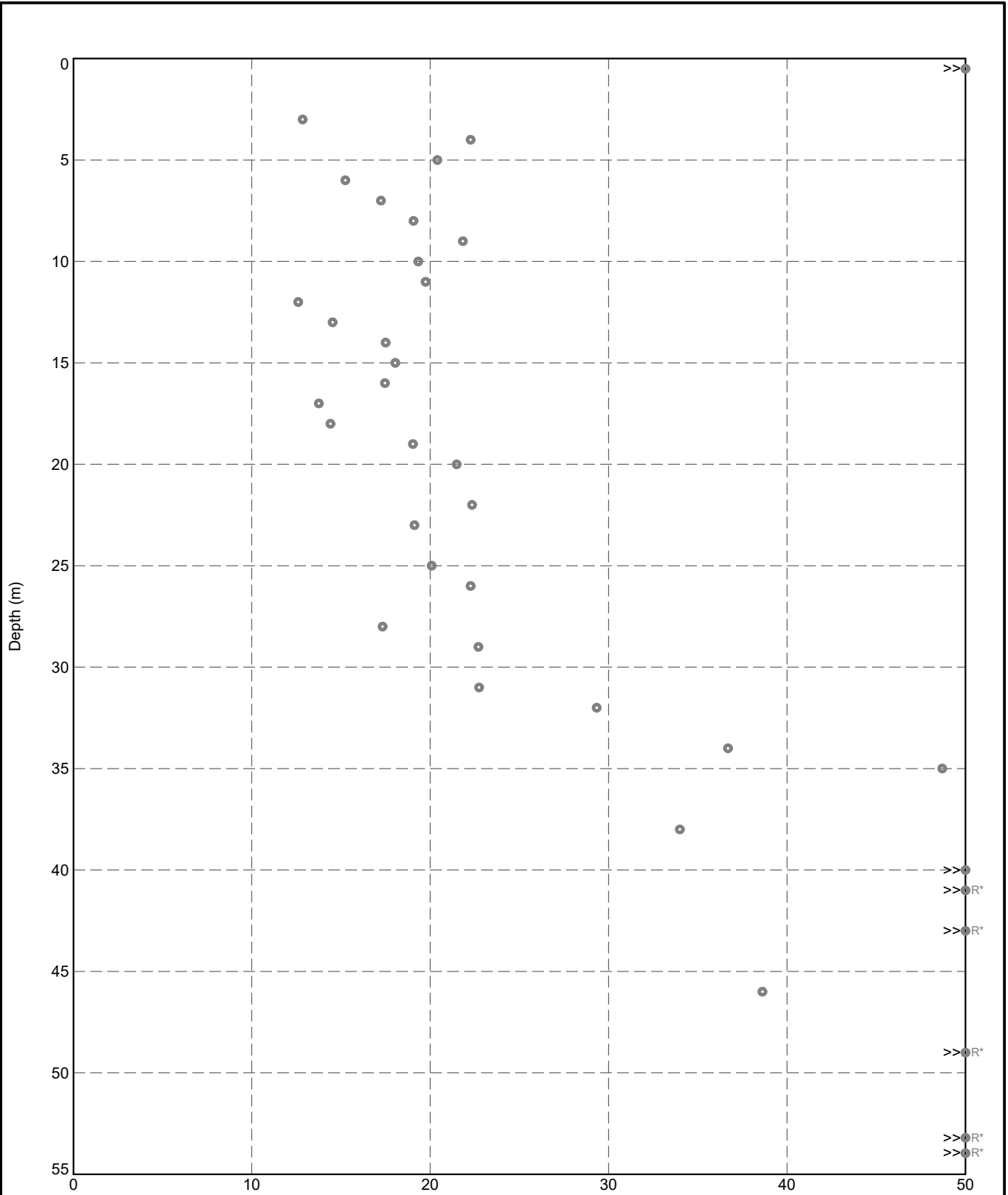
Geology Unit Legend
 x B - Beach (Littoral)
 ● A - Unit A
 ■ C - Unit C



TITLE
Datgel
Engineer 1
Somewhere, World
Construction Project
 Shear Wave Velocity from SCPT, V_s vs. Elev.

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	81

DGD1-P-5.03.2.GLB_Graph_A IS SPT (N1)60 VS DEPTH BY FTID. DGD1-P-5.03.2.GPJ --DrawingFile--> 9/9/2020 16:37:10 (1.00.11) Datgel Lab and in Situ Tool - DGD [Lib: DGD1-P-5.03.2-2020-09-09 Proj: DGD1-CL1 ST 5.03.1-2020-09-05]



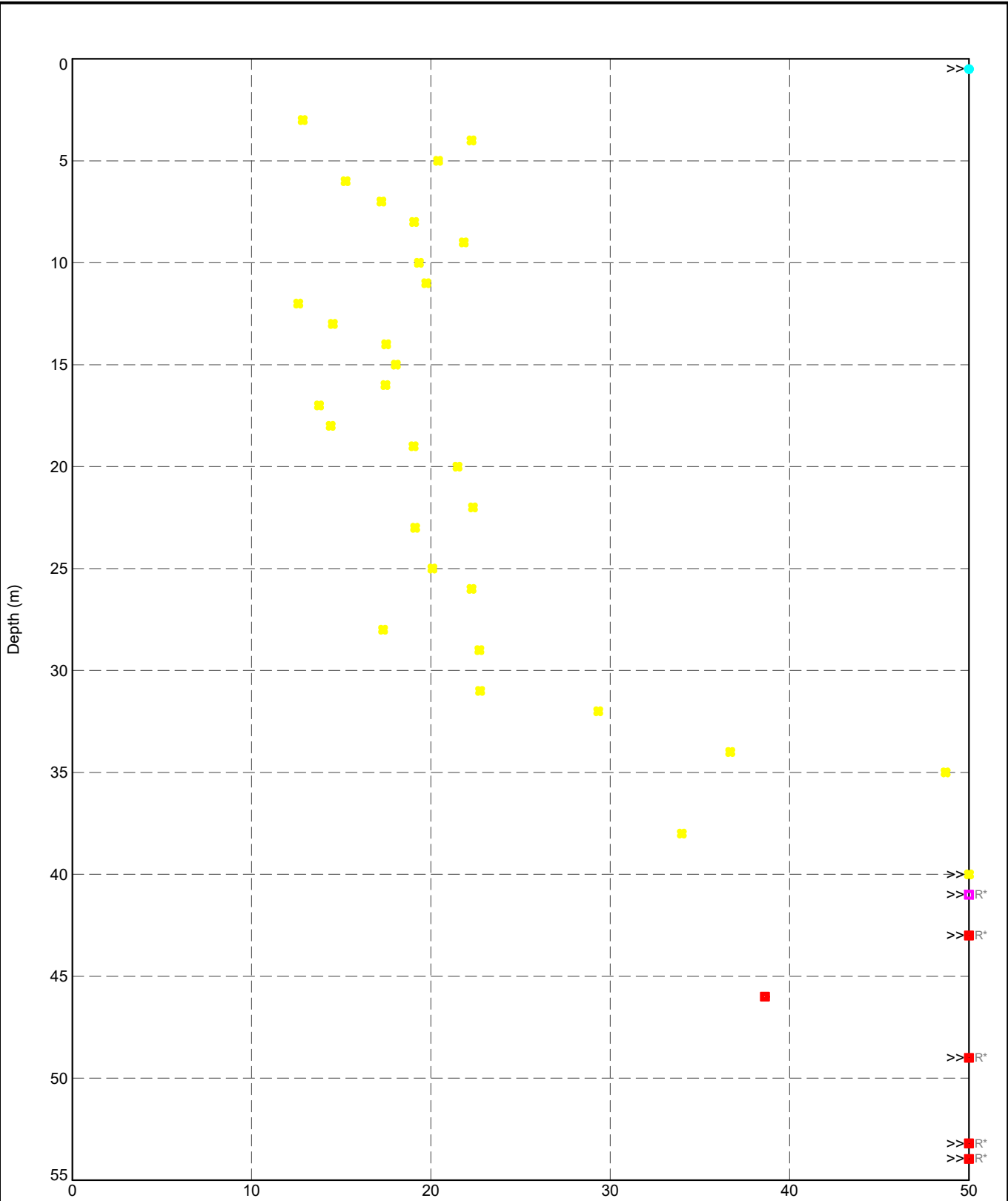
PointID Legend
 ● ST/1090B/PRM



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Uncorrected SPT (N₁)₆₀ Value vs. Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	82

DGD1-P.5.03.2.LIB.GLB Graph A IS SPT (N1)60 VS DEPTH BY UNIT DGD1-P.5.03.2.GPJ -> Drawing#> 9/9/2020 16:37 1001.001.1 Datgel Lab and In Situ Tool - DGD [Lib: DGD1-P.5.03.2 2020-09-08 Proj: DGD1-CLUST 5.03.1 2020-09-05]



Geology Unit Legend

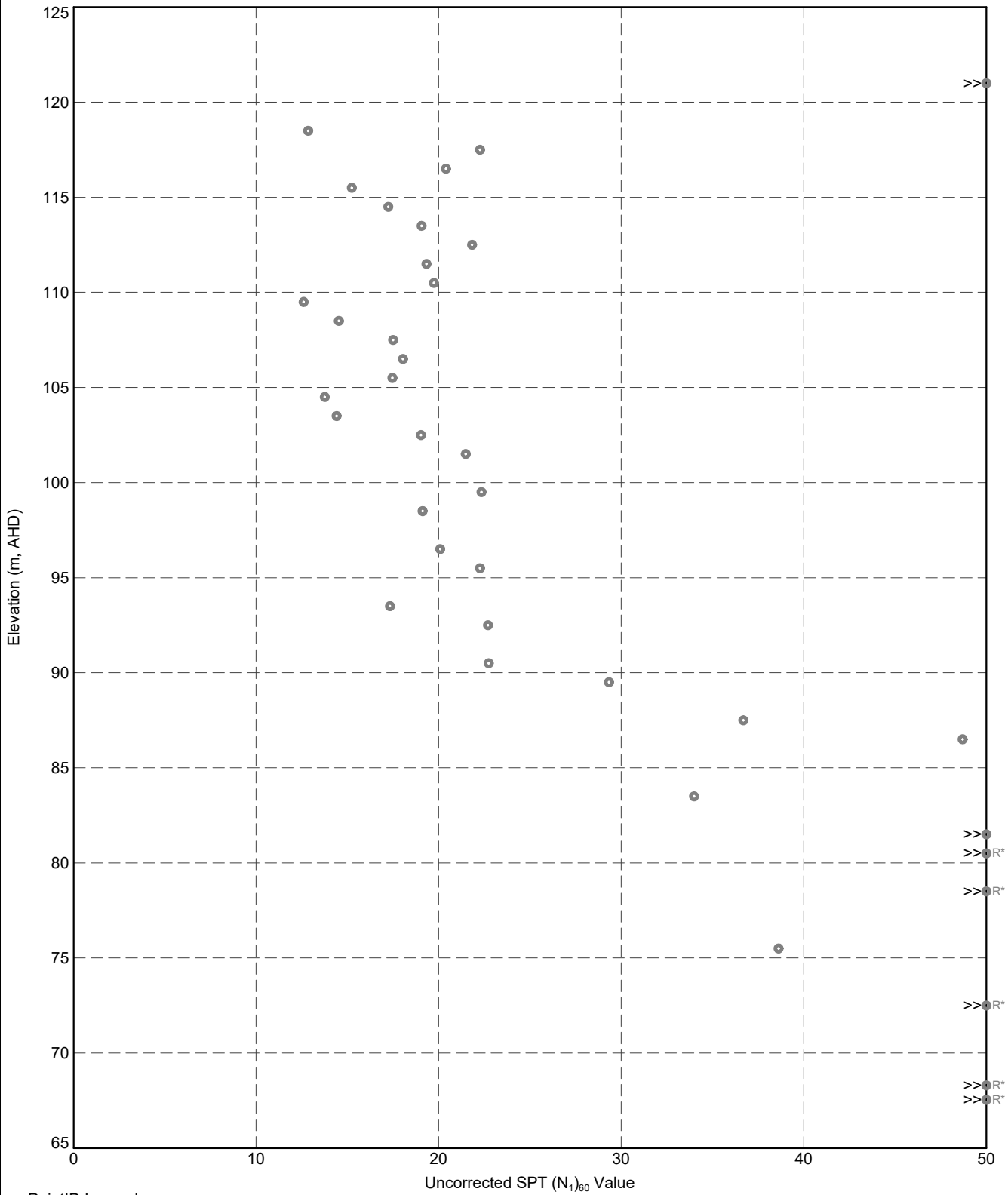
- FILL - BACKFILL
- G(VI) - Granite (rocks & associated soils) Residua...
- G(V) - Granite (rocks & associated soils) Complete...
- G(III) - Granite (rocks & associated soils) Modera...



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Uncorrected SPT (N₁)₆₀ Value vs. Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	83

DGD1-P.5.03.1.LIB.GLB Graph A IS SPT (N1)60 VS RLY BY PTID DGD1-P.5.03.2.GPJ <<DrawingFile>> 9/9/2020 16:37 10.01.00.11 Datgel Lab and In Situ Tool - DGD | Lib: DGD1-P.5.03.2.2020-09-08 Proj: DGD1-DIST.5.03.1.2020-09-05



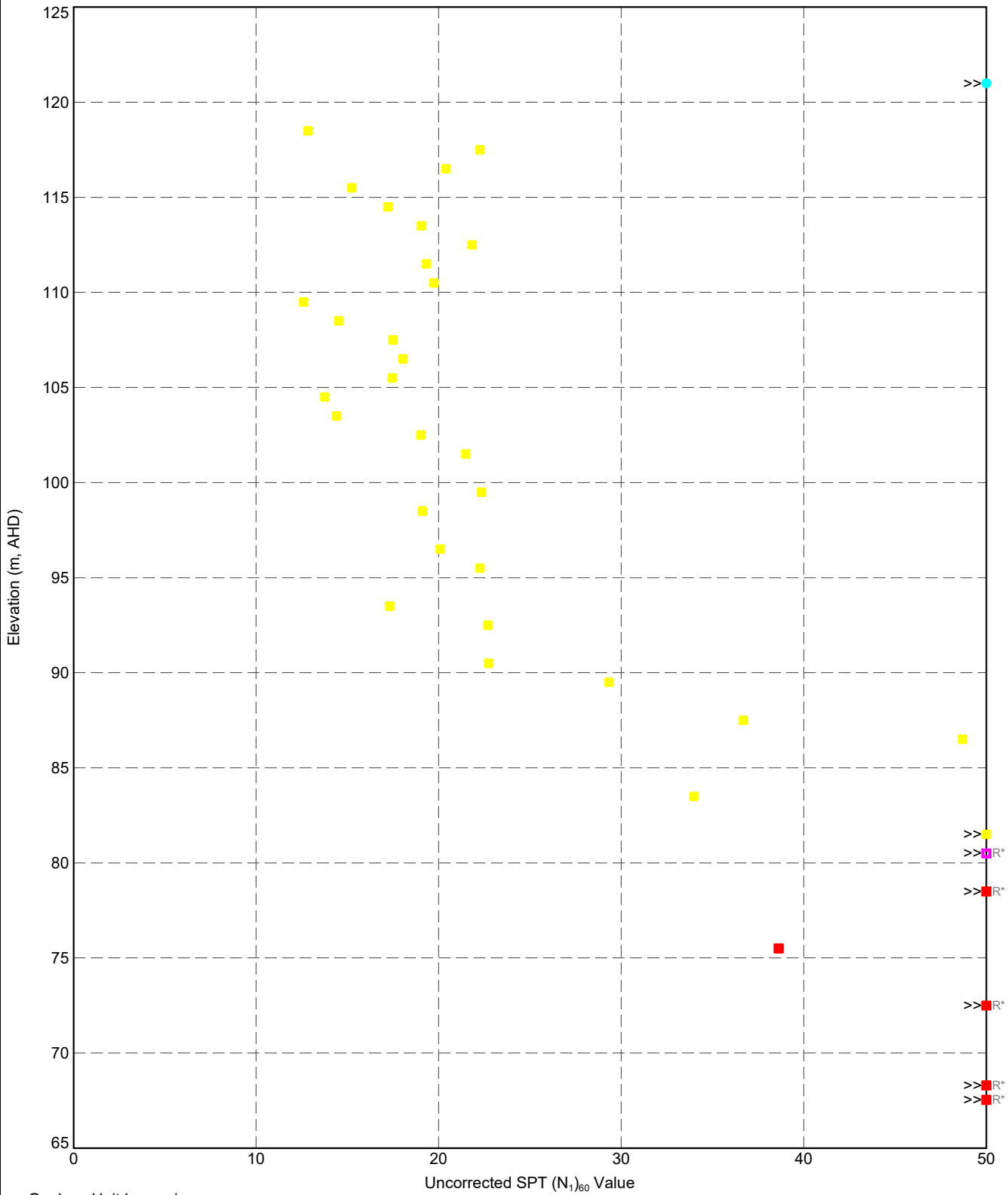
PointID Legend
 ● ST/1090B/PRM



TITLE
Datgel
Engineer 1
Somewhere, World
Construction Project
 Uncorrected SPT (N_{160}) Value vs. Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	84

DGD1-P.5.03.1.LIB.GLB - Graph - A IS SPT (N1)60 VS RLY BY UNIT DGD1-P.5.03.2.GPJ - <<DrawingFile>> 9/9/2020 16:37 10.01.00.11 Datgel.Lab and In Situ Tool - DGD | Lib: DGD1-P.5.03.2.2020-09-08 Proj: DGD1-CLST.5.03.1.2020-09-05



Geology Unit Legend

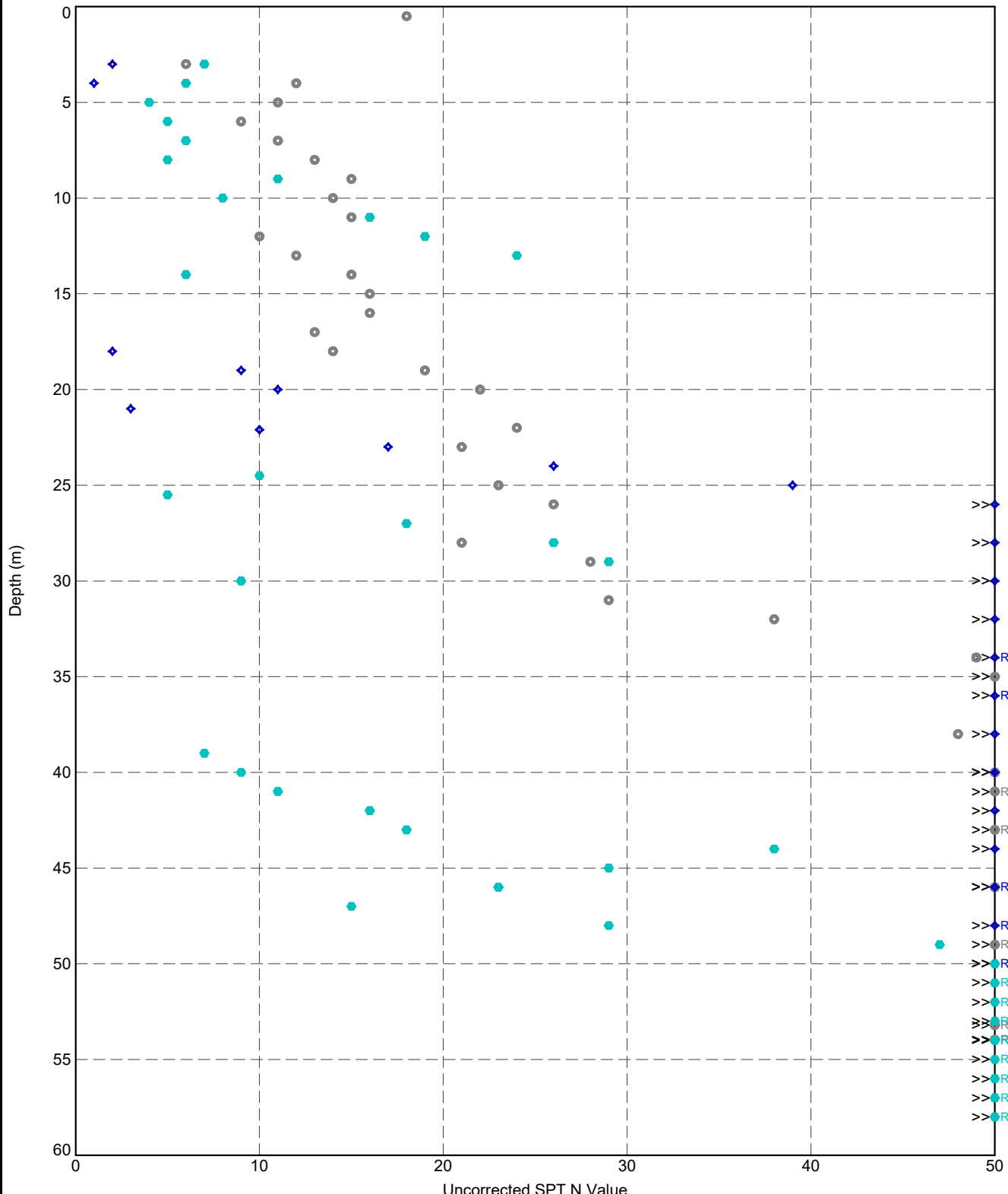
- FILL - BACKFILL
- G(VI) - Granite (rocks & associated soils) Residua...
- G(V) - Granite (rocks & associated soils) Complete...
- G(III) - Granite (rocks & associated soils) Modera...



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Uncorrected SPT (N₁)₆₀ Value vs. Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	85

DGD1-P.5.03.1-UB.GLB - Graph A IS SPT N VS DEPTH BY PTID_DGD1-P.5.03.2.GPJ - <<Drawings>> 9/9/2020 16:37 - 10.01.00.11 Datgel Lab and In Situ Tool - DGD | Lib: DGD1-P.5.03.2.2020-09-08 Proj: DGD1-DIST.5.03.1.2020-09-05



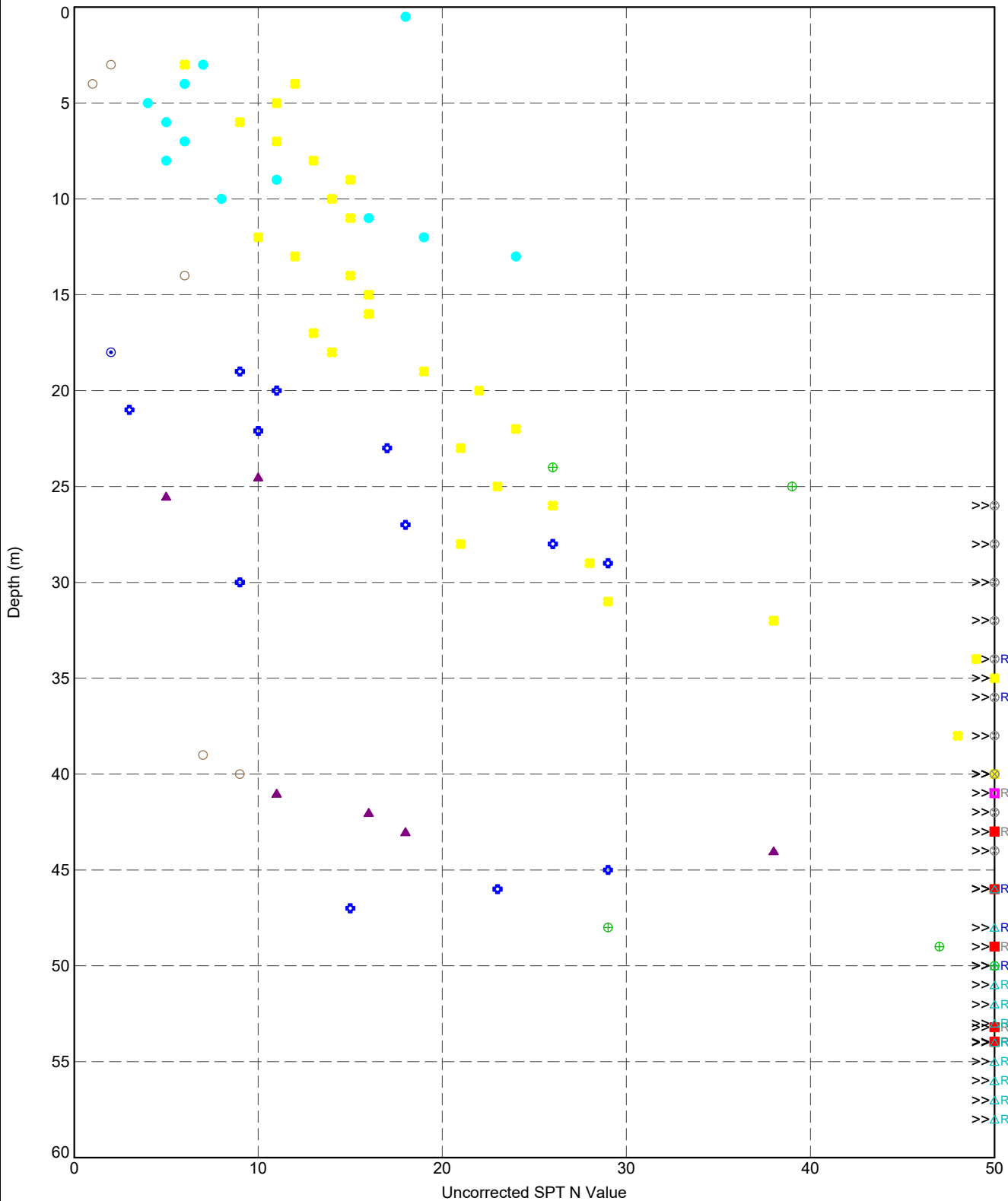
PointID Legend
 ● ST/1090B/PRM
 ◆ ST/1149B/VST_PZW
 ● ST/1162B/VST_PZW



TITLE
Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Uncorrected SPT N Value versus Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	86

DGD1-P.5.03.1.LIB.GLB_Graph_A IS SPT N VS DEPTH BY UNIT DGD1-P.5.03.2.GPJ -<DrawingFile> 9/9/2020 16:37:10.01.00.11 Datgel Lab and In Situ Tool - DGD | Lib: DGD1-P.5.03.2.2020-09-08 Proj: DGD1-DLST.5.03.1.2020-09-05



Geology Unit Legend

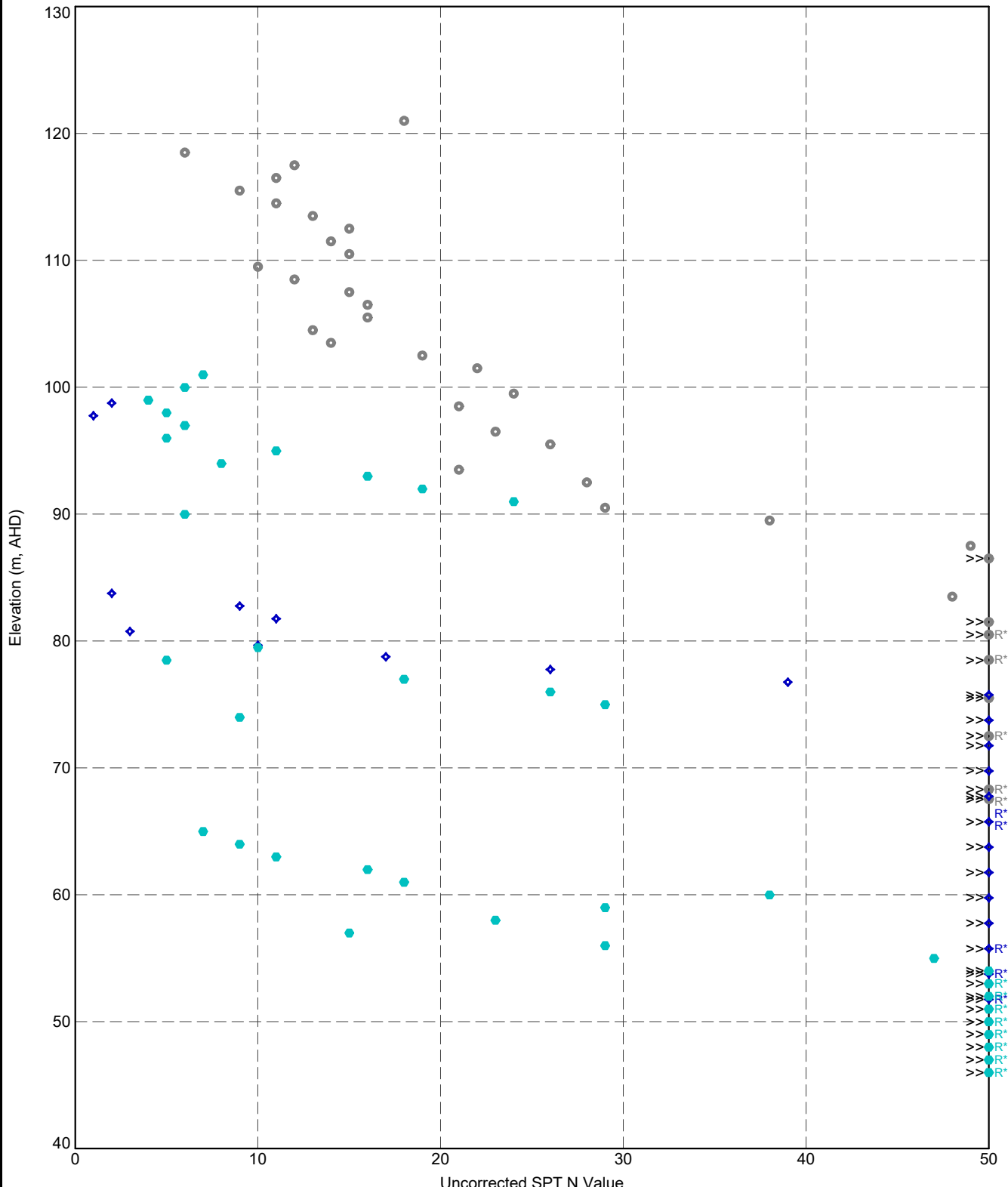
- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- F1 - Alluvial soil (Granular)
- ◊ F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- △ O(A) - Old Alluvium (Unweathered)
- ⊗ O(B) - Old Alluvium (Partially weathered)
- ⊕ O(C) - Old Alluvium (Distinctly weathered)
- G(VI) - Granite (rocks & associated soils) Residua...
- G(V) - Granite (rocks & associated soils) Complete...
- G(III) - Granite (rocks & associated soils) Modera...



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Uncorrected SPT N Value versus Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	87

DGD1-P.5.03.1-UB.GLB Graph A IS SPT N VS RL EY P11D DGD1-P.5.03.2-CPU --> Drawing File >> 9/9/2020 16:37 10.01.00.11 Datgel Lab and In Situ Tool - DGD1 Lib - DGD1-P.5.03.2-2020-09-08 Proj - DGD1-01-ST-5.03.1-2020-09-05



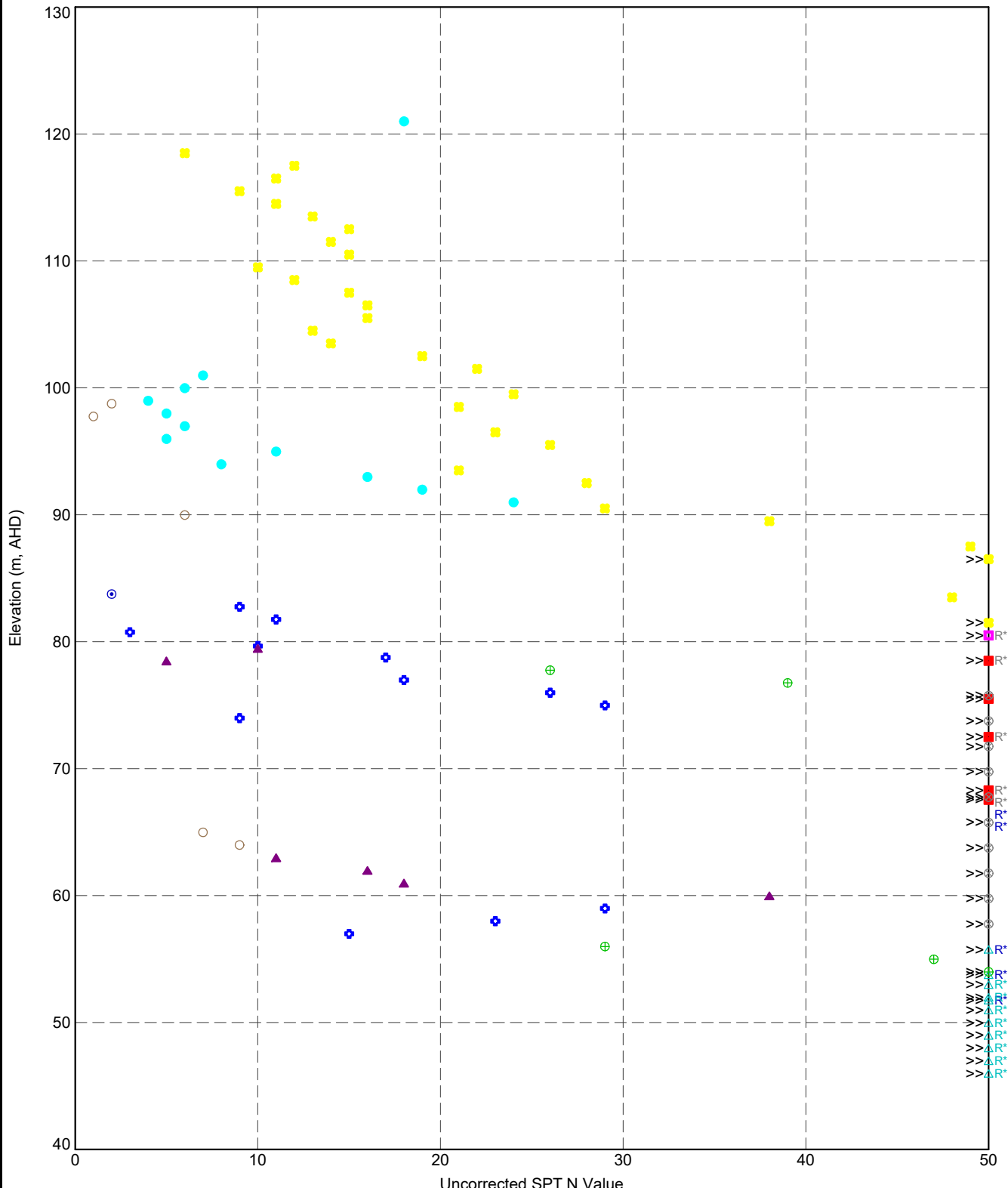
PointID Legend
 ● ST/1090B/PRM
 ◆ ST/1149B/VST_PZW
 ● ST/1162B/VST_PZW



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Uncorrected SPT N Value versus Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	88

DGD1-P.5.03.2.LIB.GLB_Graph_A IS SPT N VS RL BY UNIT DGD1-P.5.03.2.GPJ -<DrawingFile> 9/9/2020 16:37 10.01.00.11 Datgel Lab and in Situ Test - DGD1-Lib.DGD1-P.5.03.2.2020-09-08 P1: DGD1-D1.S1.5.03.1.2020-09-05



Geology Unit Legend

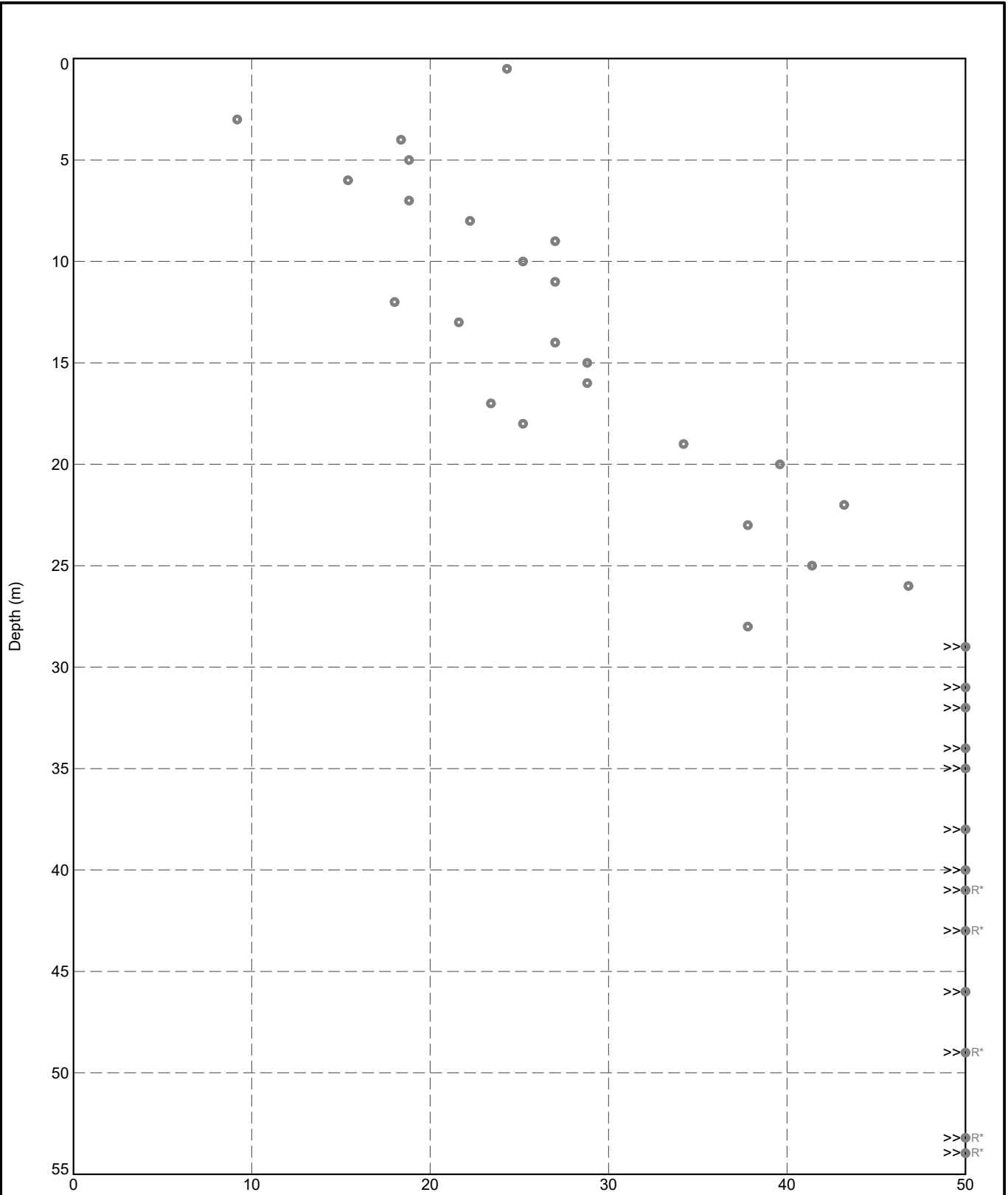
- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- F1 - Alluvial soil (Granular)
- ⊕ F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- △ O(A) - Old Alluvium (Unweathered)
- ⊗ O(B) - Old Alluvium (Partially weathered)
- ⊕ O(C) - Old Alluvium (Distinctly weathered)
- G(VI) - Granite (rocks & associated soils) Residua...
- G(V) - Granite (rocks & associated soils) Complete...
- G(III) - Granite (rocks & associated soils) Modera...




TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Uncorrected SPT N Value versus Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	89

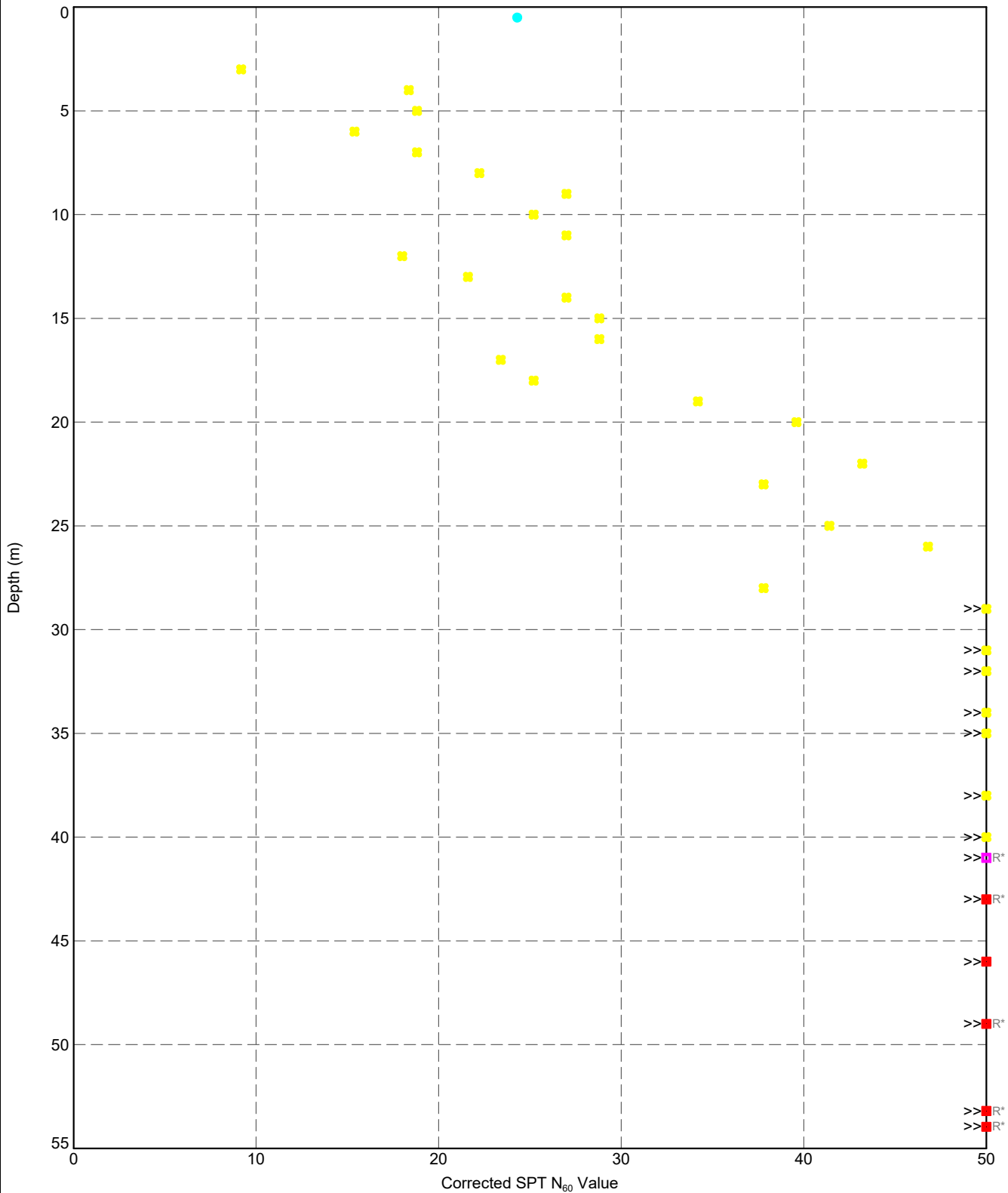
DGD1-P.5.03.1-UB.GLB Graph A IS SPT N60 VS DEPTH BY PTID DGD1-P.5.03.2-2020-09-08 PH; DGD1-DLST 5.03.1-2020-09-06



PointID Legend
 ● ST/1090B/PRM

 <p>Datgel DATA SOLUTIONS Geotechnics • Geoenvironment • Laboratory</p>	<p>TITLE</p> <p>Datgel Engineer 1 Somewhere, World Construction Project Corrected SPT N₆₀ Value vs. Depth</p>	DRAWN	PMW	DATE	9/9/2020
		CHECKED		DATE	9/9/2020
		SCALE	Not To Scale		A4
		PROJECT No	5.03.1	FIGURE No	90

DGD1-P-5.03.2.LIB.GLB_Graph_A IS SPT N60 VS DEPTH BY UNIT DGD1-P-5.03.2.GPJ <DrawingFile> 9/9/2020 18:37:10.01.00.1.1 Datgel Lab and In Situ Tool - DGD1 Lib. DGD1-P-5.03.2.2020-09-08 Pj: DGD1-DUST 5.03.1.2020-09-08



Geology Unit Legend

- FILL - BACKFILL
- G(VI) - Granite (rocks & associated soils) Residua...
- G(V) - Granite (rocks & associated soils) Complete...
- G(III) - Granite (rocks & associated soils) Modera...

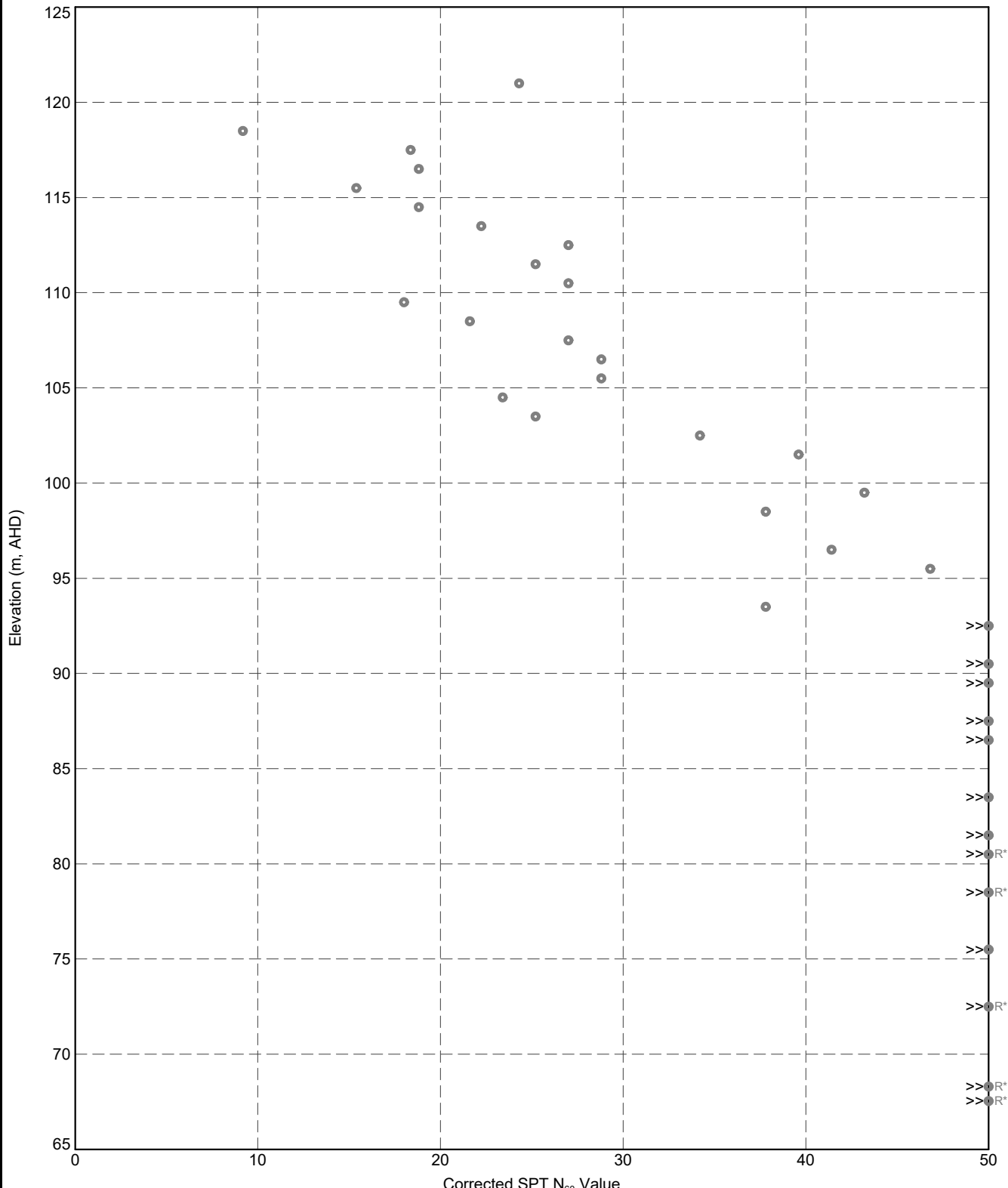


TITLE

Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Corrected SPT N₆₀ Value vs. Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	91

DGD1-P.5.03.2.LIB.GLB Graph A IS SPT N60 VS RL BY PTID DGD1-P.5.03.2.GPJ <DrawingFile> 9/9/2020 16:37 10.01.00.11 Datgel Lab and In Situ Tool - DGD1 [Lib: DGD1-P.5.03.2.2020-09-08 Proj: DGD1-DLST.5.03.1.2020-09-05



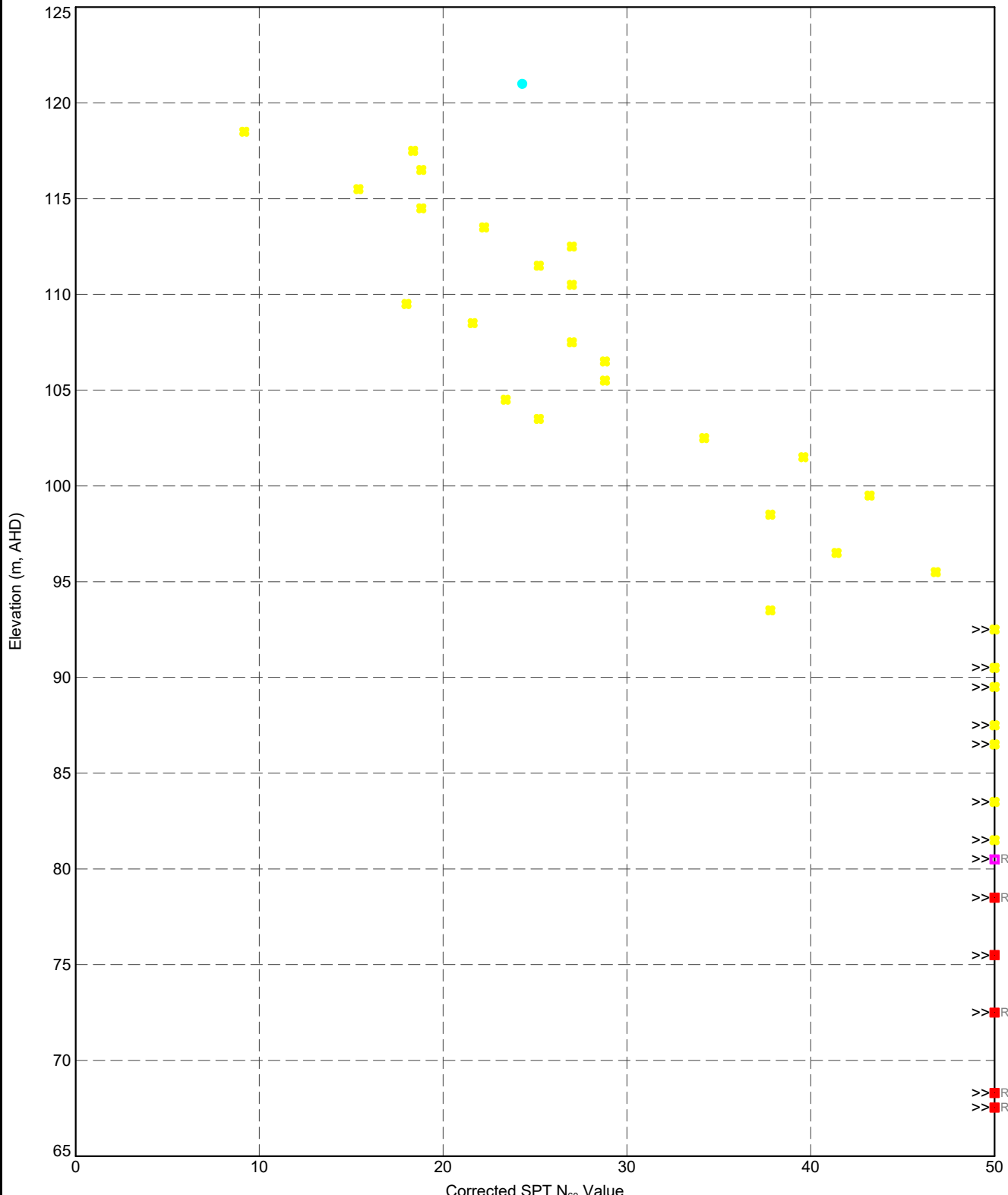
PointID Legend
 ● ST/1090B/PRM



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Corrected SPT N₆₀ Value vs. Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	92

DGD1-P.5.03.2.LIB.GLB Graph A IS SPT N60 VS RL BY UNIT DGD1-P.5.03.2.GPJ --DrawingFile-- 9/9/2020 16:37 10.01.00.11 Datgel Lab and in Situ Tool - DGD1 - DGD1-P.5.03.2.2020-09-08 Proj. DGD1-DLST.5.03.1.2020-09-05



Geology Unit Legend

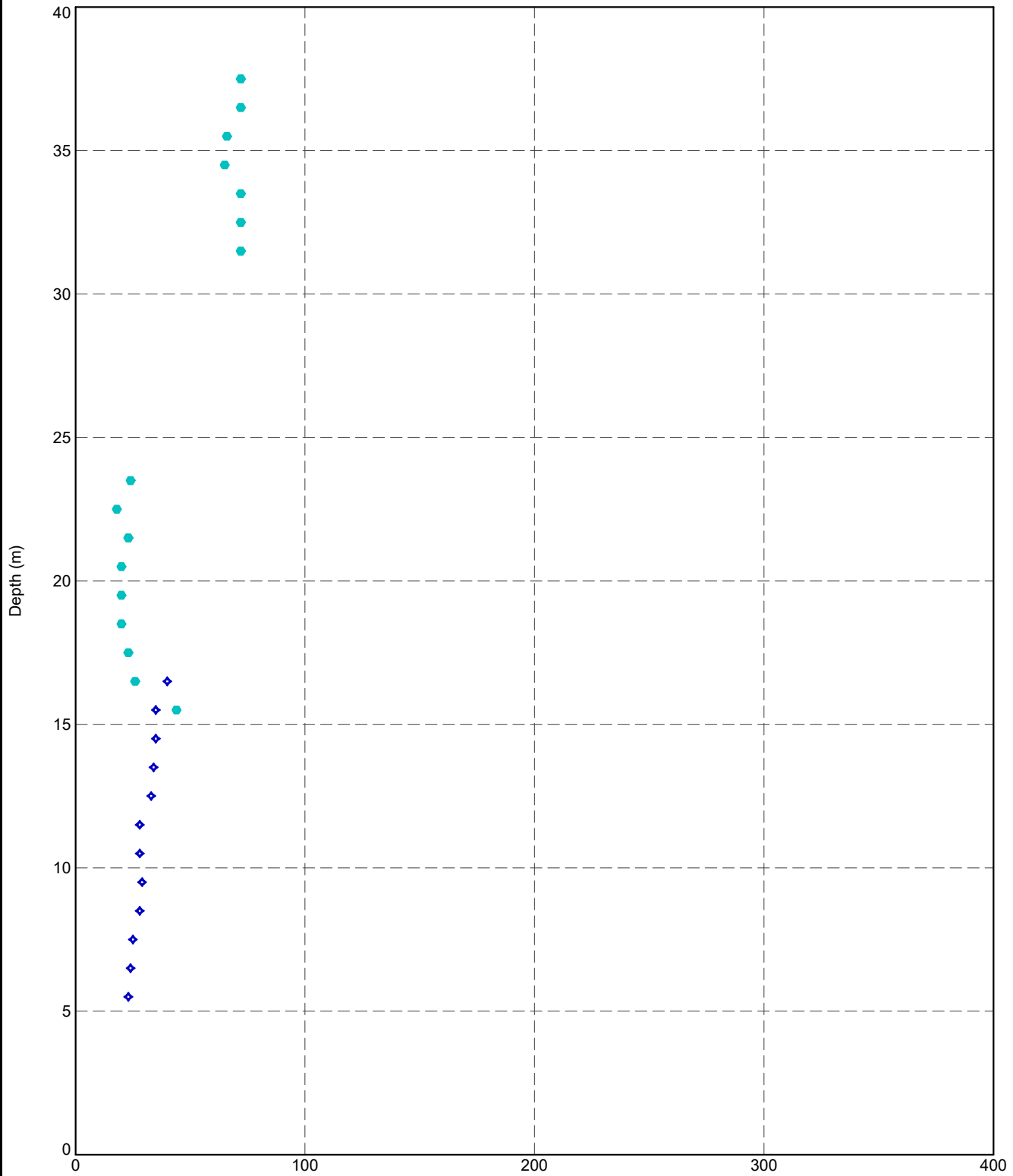
- FILL - BACKFILL
- G(VI) - Granite (rocks & associated soils) Residua...
- G(V) - Granite (rocks & associated soils) Complete...
- G(III) - Granite (rocks & associated soils) Modera...



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Corrected SPT N₆₀ Value vs. Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	93

DGD1-P-5.03.1-UB-GLB_Graph A IS SU HV VS DEPTH BY PTID_DGD1-P-5.03.2-GPJ <<DrawingFile>> 9/9/2020 16:37:10.01.00.11 Datgel Lib and In Situ Tool - DGD1 [Lib: DGD1-P-5.03.2-2020-09-08 Proj: DGD1-DIST-5.03.1-2020-09-05]



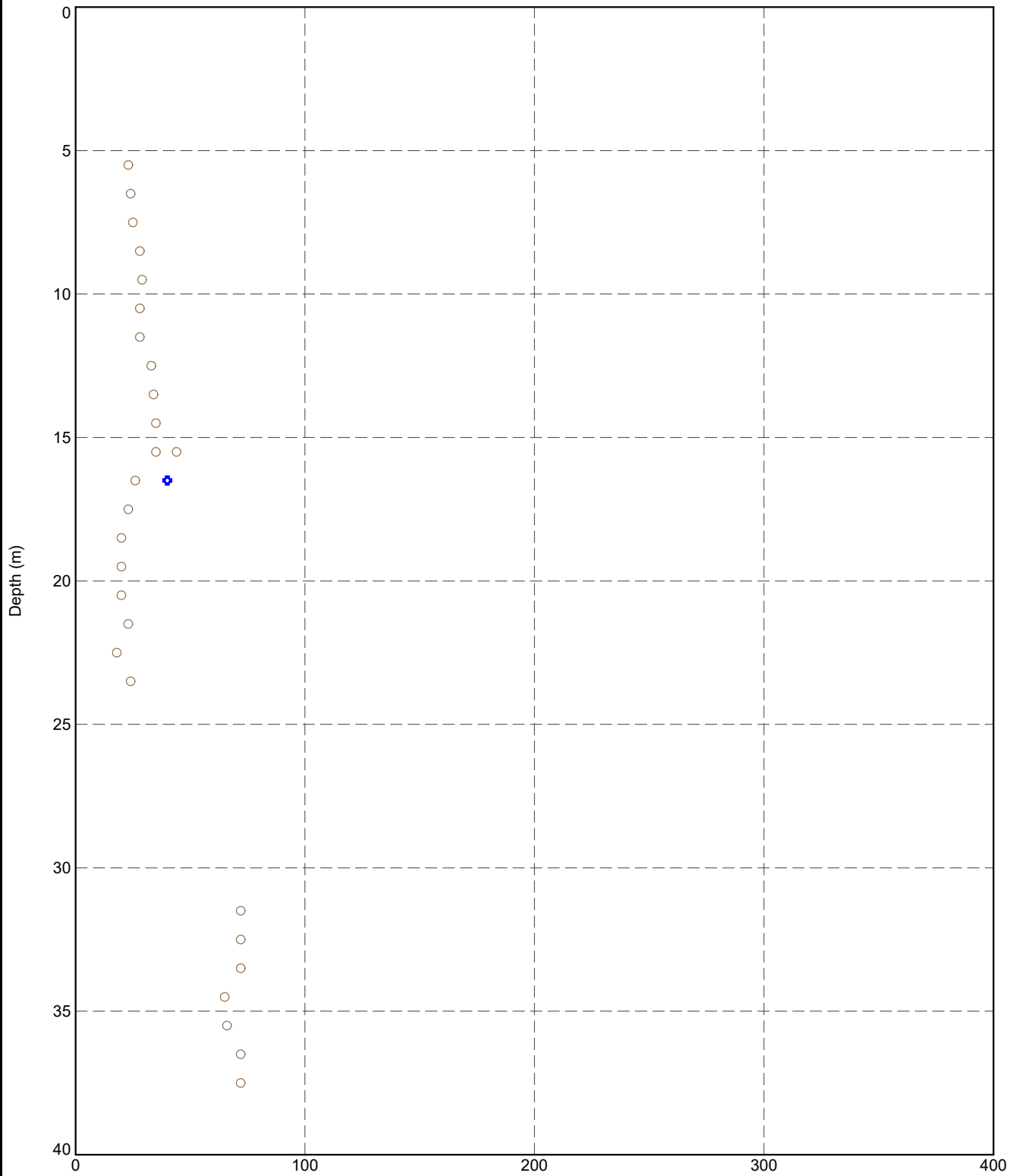
PointID Legend
 ◆ ST/1149B/VST_PZW
 ● ST/1162B/VST_PZW



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Hand Vane Undrained Shear Strength vs.
 Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	94

DGD1-P-5.03.1-UB-GLB-Graph-A-IS-SU-HV-VS-DEPTH-BY-UNIT-DGD1-P-5.03.2-GP1- <DrawingFile> 9/9/2020 16:38 10/01/00.11 Datgel Lab and In Situ Tool - DGD | Lib: DGD1-P-5.03.2-2020-09-08 Proj: DGD1-DIST-5.03.1-2020-09-05



Geology Unit Legend

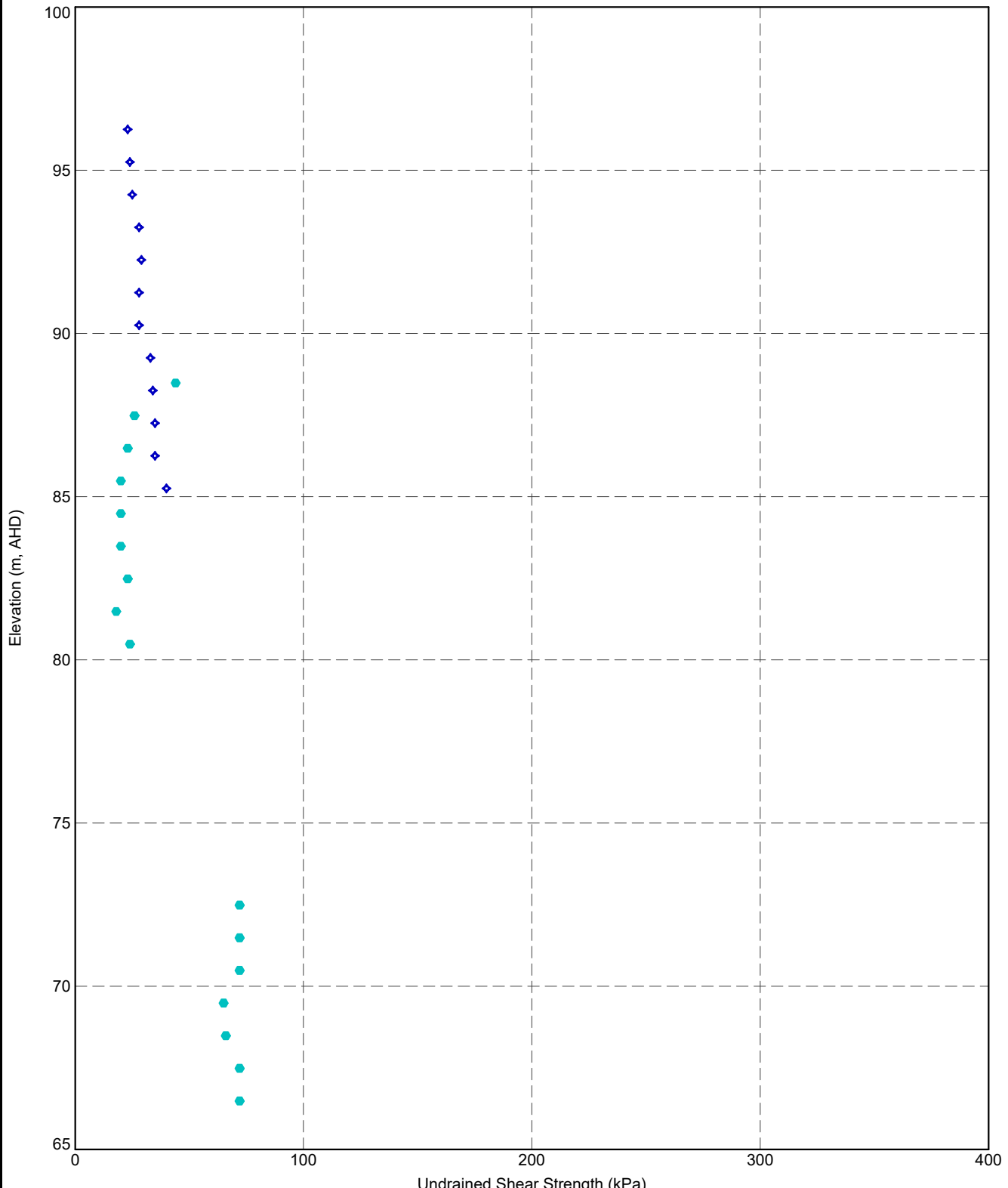
- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- F1 - Alluvial soil (Granular)
- ◆ F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- △ O(A) - Old Alluvium (Unweathered)
- ⊗ O(B) - Old Alluvium (Partially weathered)
- ⊕ O(C) - Old Alluvium (Distinctly weathered)
- G(VI) - Granite (rocks & associated soils) Residua...
- G(V) - Granite (rocks & associated soils) Comple...
- ✱ G(IV) - Granite (rocks & associated soils) Highly ...
- G(III) - Granite (rocks & associated soils) Modera...
- G(II) - Granite (rocks & associated soils) Slightl...



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Hand Vane Undrained Shear Strength vs.
 Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	95

D:\P\5.03.2\LIB\GLB_Graph_A\B\SU\HV\SR\BY\PTID_D\GDT_P\5.03.2.GPJ <<DrawingFile>> 9/9/2020 16:38 10.01.00.11 Datgel Lab and In Situ Tool - DGD - Lib.DGDT.P.5.03.2.20200908 Pj.DGDT.D\ST.5.03.1.2020-09-05



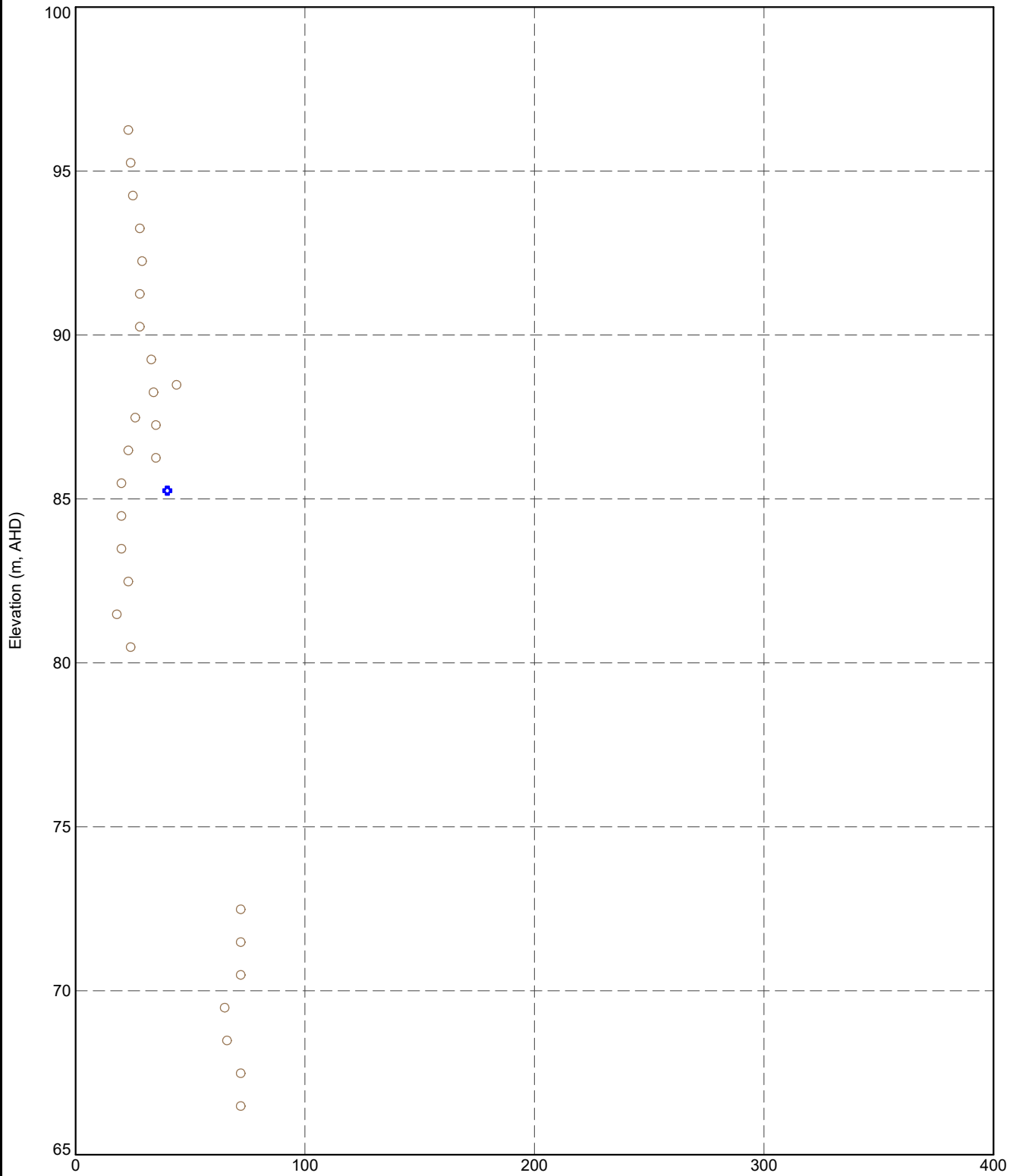
PointID Legend
 ◆ ST/1149B/VST_PZW
 ● ST/1162B/VST_PZW



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Hand Vane Undrained Shear Strength vs.
 Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	96

DGD1-P.5.03.1 UB.GLB Graph A IS.SU.HV.VS.RL BY UNIT DGD1-P.5.03.2.GPJ <DrawingFile> 9/9/2020 16:38 10.01.00.11 Datgel Lab and in Situ Test - DGD1 Lib. DGD1-P.5.03.2.2020-09-08.Pjt; DGD1-DLST.5.03.1.2020-09-06



Geology Unit Legend

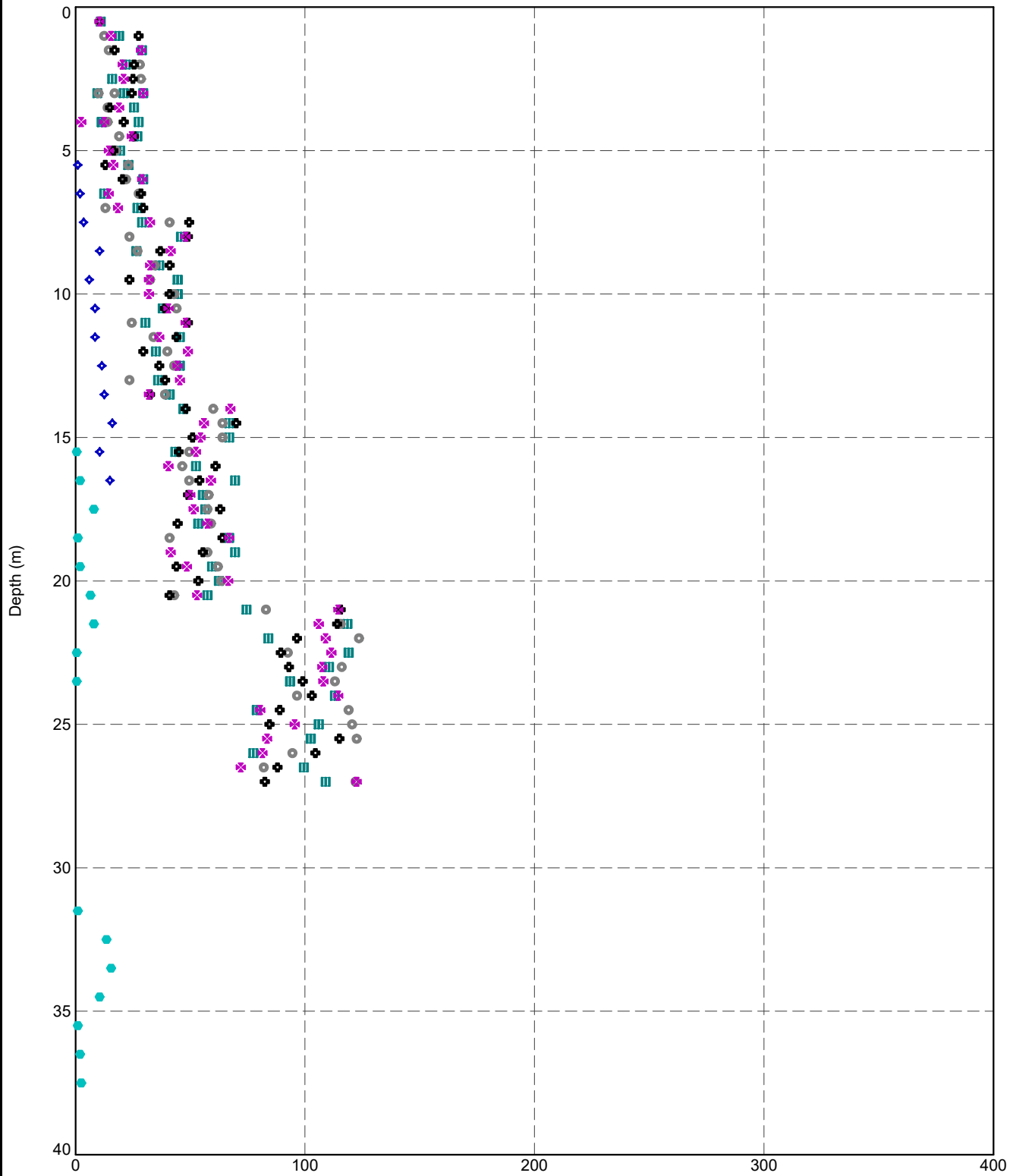
- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- F1 - Alluvial soil (Granular)
- ⊕ F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- △ O(A) - Old Alluvium (Unweathered)
- ⊗ O(B) - Old Alluvium (Partially weathered)
- ⊕ O(C) - Old Alluvium (Distinctly weathered)
- G(VI) - Granite (rocks & associated soils) Residua...
- G(V) - Granite (rocks & associated soils) Comple...
- ✱ G(IV) - Granite (rocks & associated soils) Highly ...
- G(III) - Granite (rocks & associated soils) Modera...
- G(II) - Granite (rocks & associated soils) Slightl...



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Hand Vane Undrained Shear Strength vs.
 Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	97

DGD1-P.5.03.1.LIB.GLB_Graph_A IS SUPP VS DEPTH BY PTID_DGD1-P.5.03.2.2020-09-08 Proj: DGD1-DLST.5.03.1.2020-09-05



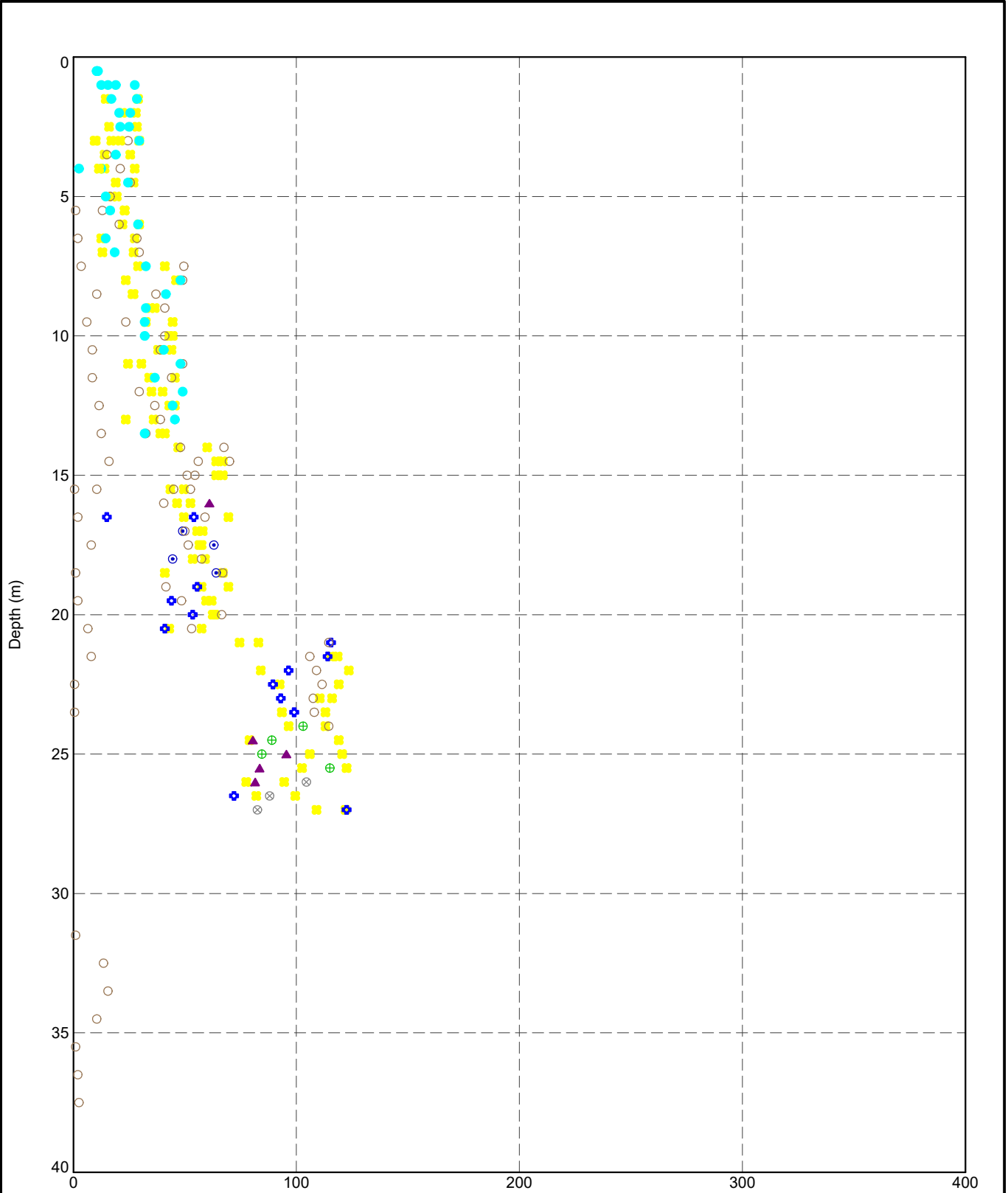
- PointID Legend**
- ST/1090A
 - ST/1090B/PRM
 - ⊕ ST/1149A
 - ◆ ST/1149B/VST_PZW
 - ⊗ ST/1162A/PZW
 - ST/1162B/VST_PZW



TITLE
Datgel
 Engineer 1
 Somewhere, World
 Construction Project
Pocket Penetrometer Undrained Shear Strength vs. Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	98

DGD1-P.5.03.1.LIB.GLB_Graph_A IS SUPP VS DEPTH BY UNIT DGD1-P.5.03.2.GPJ <<DrawingFile>> 9/9/2020 16:38:10.01.00.11 Datgel Lib and In Situ Tool - DGD | Lib: DGD1-P.5.03.2.2020-09-08 Proj: DGD1-DIST.5.03.1.2020-09-05



Geology Unit Legend

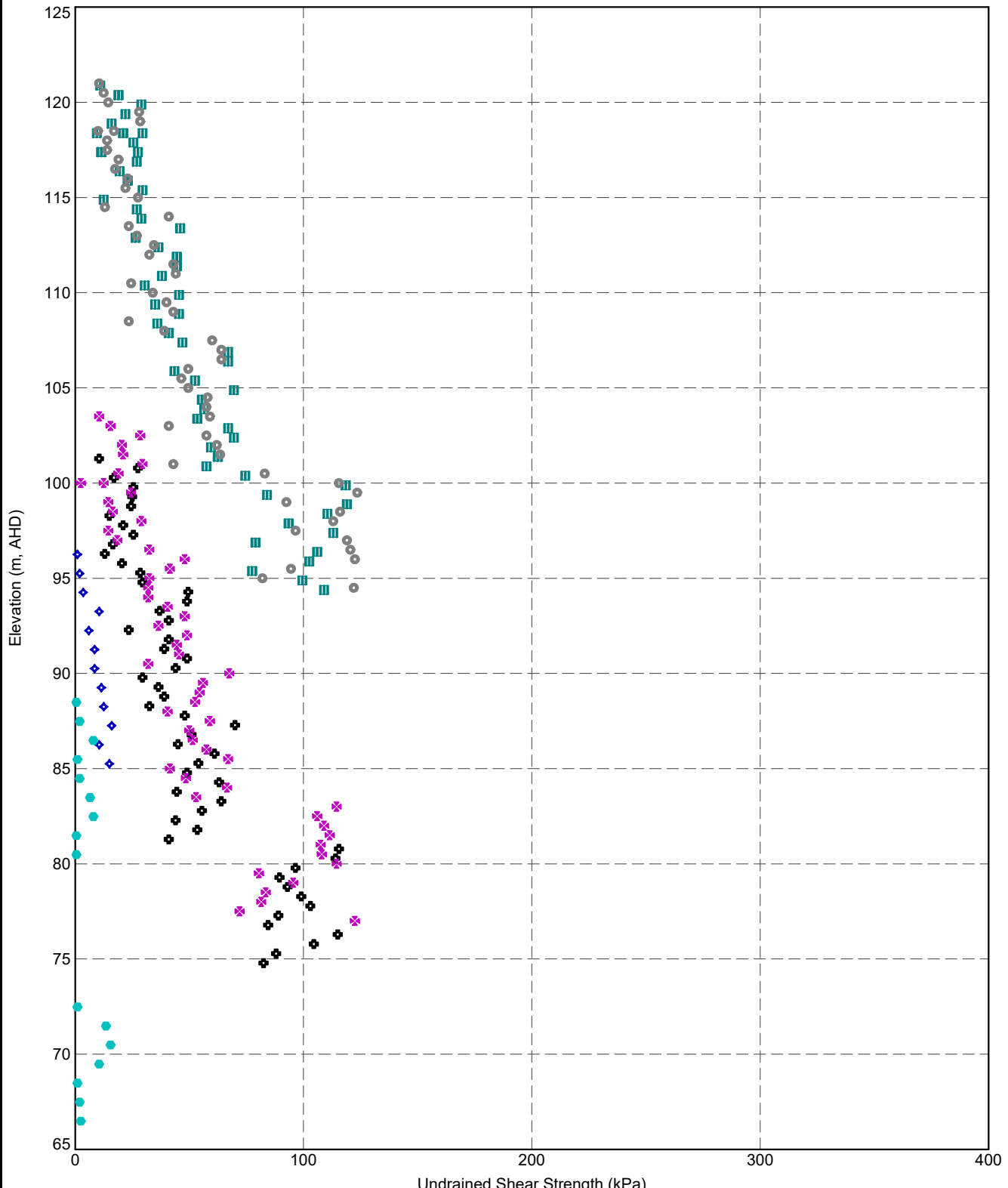
- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- F1 - Alluvial soil (Granular)
- ⊕ F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- △ O(A) - Old Alluvium (Unweathered)
- ⊗ O(B) - Old Alluvium (Partially weathered)
- ⊕ O(C) - Old Alluvium (Distinctly weathered)
- G(VI) - Granite (rocks & associated soils) Residua...
- G(V) - Granite (rocks & associated soils) Comple...
- ✱ G(IV) - Granite (rocks & associated soils) Highly ...
- G(III) - Granite (rocks & associated soils) Modera...
- G(II) - Granite (rocks & associated soils) Slightl...



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
**Pocket Penetrometer Undrained Shear Strength
 vs. Depth**

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	99

DGD1-P.5.03.2.LIB.GLB Graph A IS SUPP VS RL BY PTD DGD1-P.5.03.2.GPJ <DrawingFile> 9/9/2020 16:38 10.01.001.1 Datgel Lab and in Situ Test - DGD1.LIB.DGD1-P.5.03.2.2020-09-08 P1: DGD1-D1.ST.5.03.1.2020-09-05



- PointID Legend**
- ST/1090A
 - ST/1090B/PRM
 - ⊕ ST/1149A
 - ◆ ST/1149B/VST_PZW
 - ⊗ ST/1162A/PZW
 - ST/1162B/VST_PZW

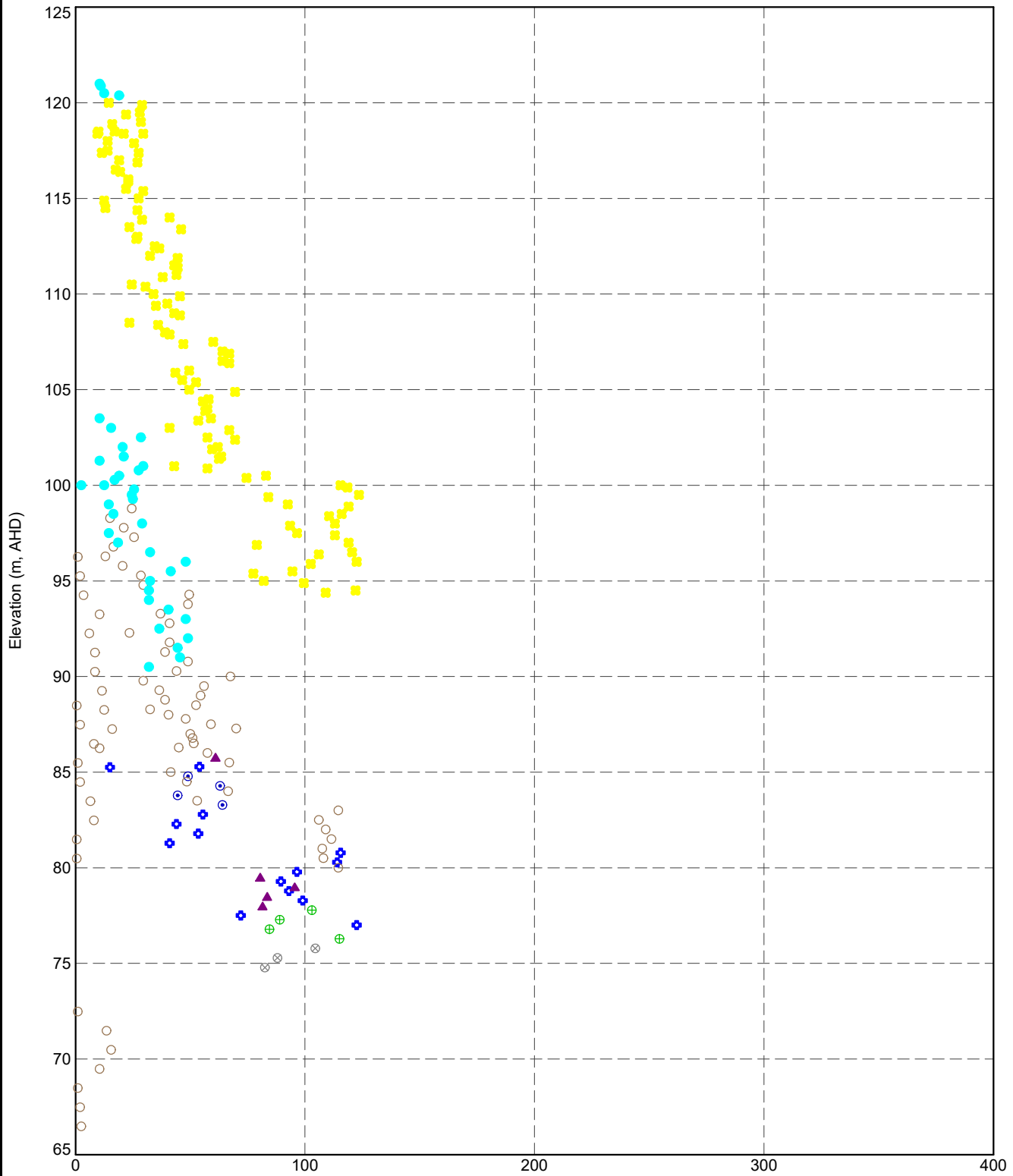


TITLE

Datgel
Engineer 1
Somewhere, World
Construction Project
Pocket Penetrometer Undrained Shear Strength
vs. Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	100

DGD1-P.5.03.2.LIB.GLB_Graph_A IS SUPP VSR BY UNIT DGD1-P.5.03.2.GPJ <<DrawingFile>> 9/9/2020 16:39 10.01.00.11 Datgel Lab and in Situ Tool - DGD1-Lib.DGD1-P.5.03.2.20200908 Ph: DGD1-DLST.5.03.1.2020-09-05



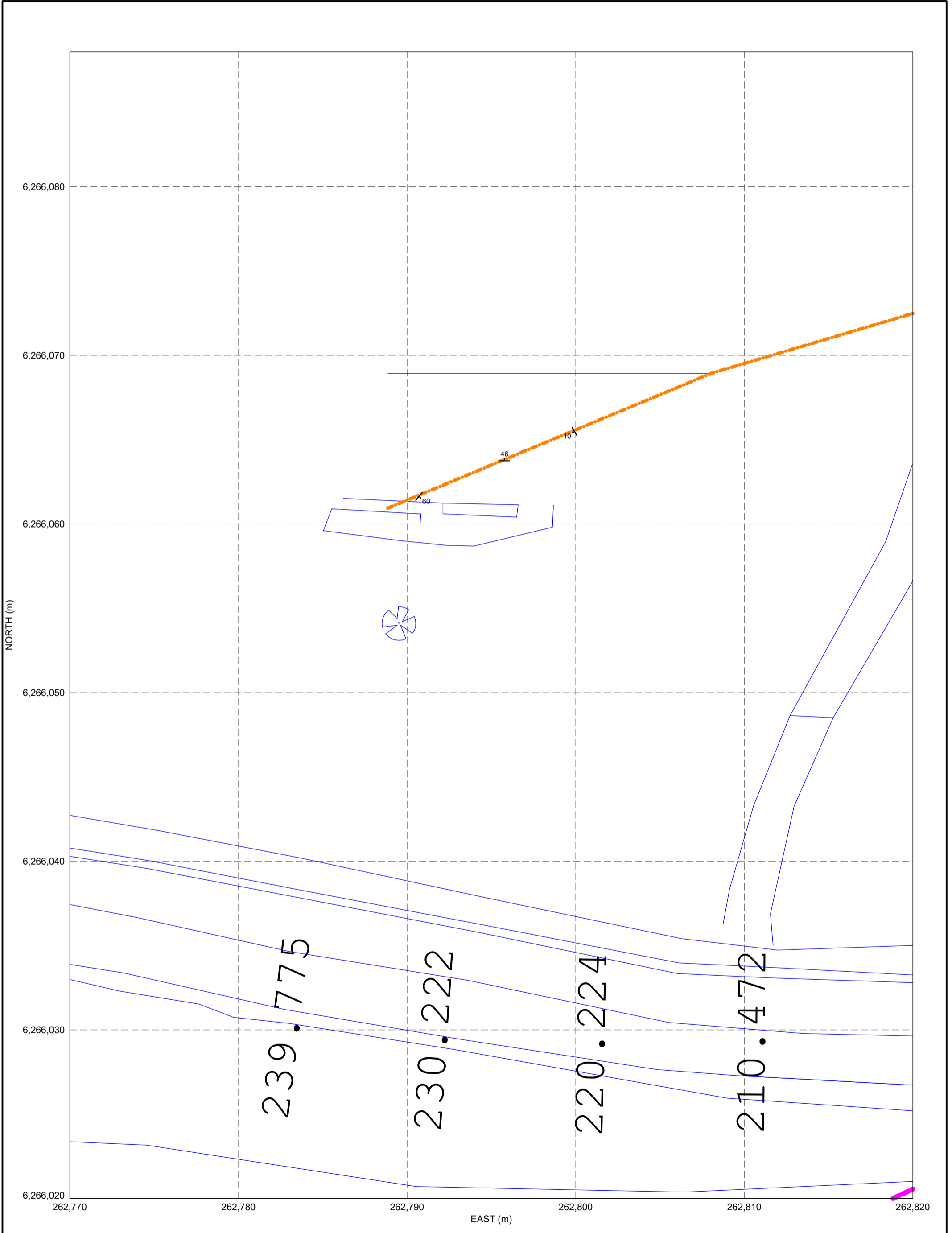
Geology Unit Legend

- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- F1 - Alluvial soil (Granular)
- ⊕ F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- △ O(A) - Old Alluvium (Unweathered)
- ⊗ O(B) - Old Alluvium (Partially weathered)
- ⊕ O(C) - Old Alluvium (Distinctly weathered)
- G(VI) - Granite (rocks & associated soils) Residua...
- G(V) - Granite (rocks & associated soils) Comple...
- ✱ G(IV) - Granite (rocks & associated soils) Highly ...
- G(III) - Granite (rocks & associated soils) Modera...
- G(II) - Granite (rocks & associated soils) Slightl...

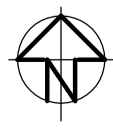


TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
**Pocket Penetrometer Undrained Shear Strength
 vs. Elevation**

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	101

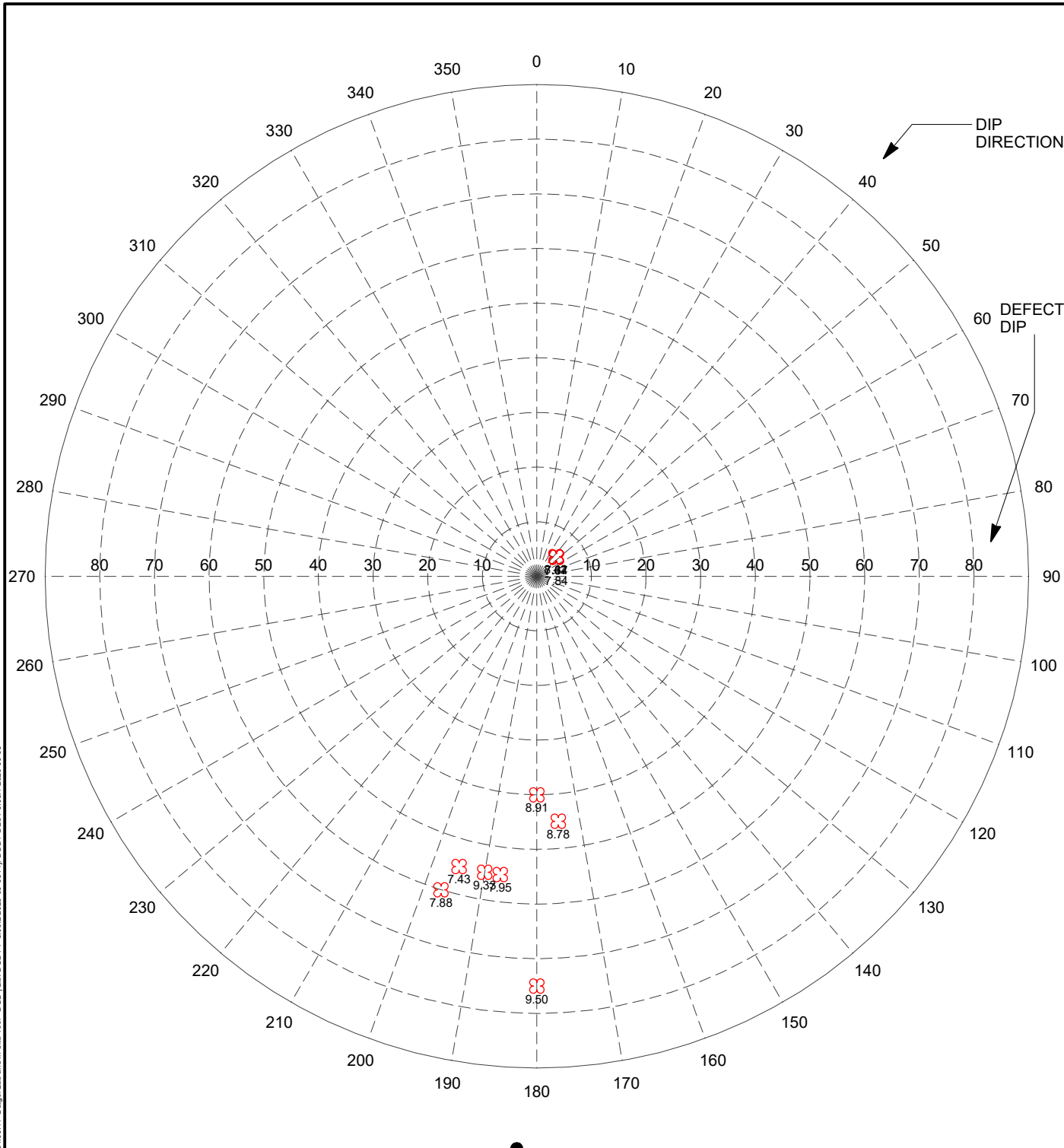


LEGEND
 Strike/Dip Structure from line mapping
 Fault from line mapping
 Contact from line mapping



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Defect Map


DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	1:200		A3
PROJECT No	5.03.1	FIGURE No	102



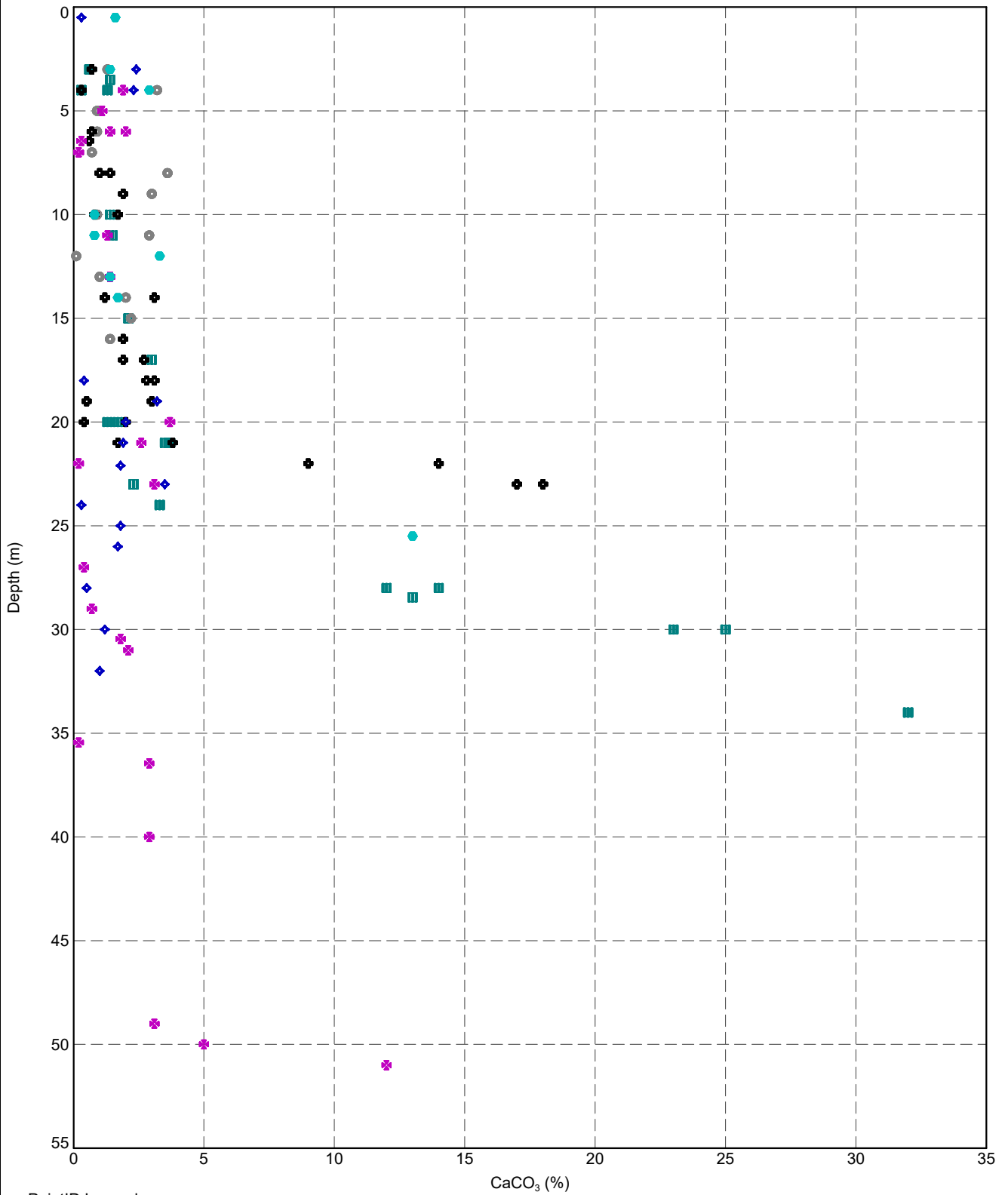
LEGEND

- Alteration Zone
- bedding Joint
- Bedding Parting
- ✦ Drilling Break
- ✦ Handling Break
- Joint
- ⊗ Joint
- ✕ Sheared Seam

D:\GDT-P\5.03.2\LIB\GLB_Graph_A\B\STEREONET_DGDT-P_5.03.2\2020-09-08 Proj: DGDT-CLIST 5.03.1 2020-09-05

 Datgel DATA SOLUTIONS Geotechnics • Geoenvironment • Laboratory	TITLE Datgel Engineer 1 Somewhere, World Construction Project Stereonet	DRAWN PMW	DATE 9/9/2020
		CHECKED	DATE 9/9/2020
	SCALE Not To Scale	A4	
	PROJECT No 5.03.1	FIGURE No 103	

DGD1-P.5.03.1.LIB.GLB Graph A.L.CH.CACO3.VS.DEPTH.BY.PTID.DGD1-P.5.03.2.GPJ <-DrawingFile>> 9/9/2020 16:39 10.01.00.11.Datgel.Lab.and.In.Situ.Tech.-DGD [Lib:DGD1-P.5.03.2.2020-09-08.Pjt_DGD1-QLST.5.03.1.2020-09-05]



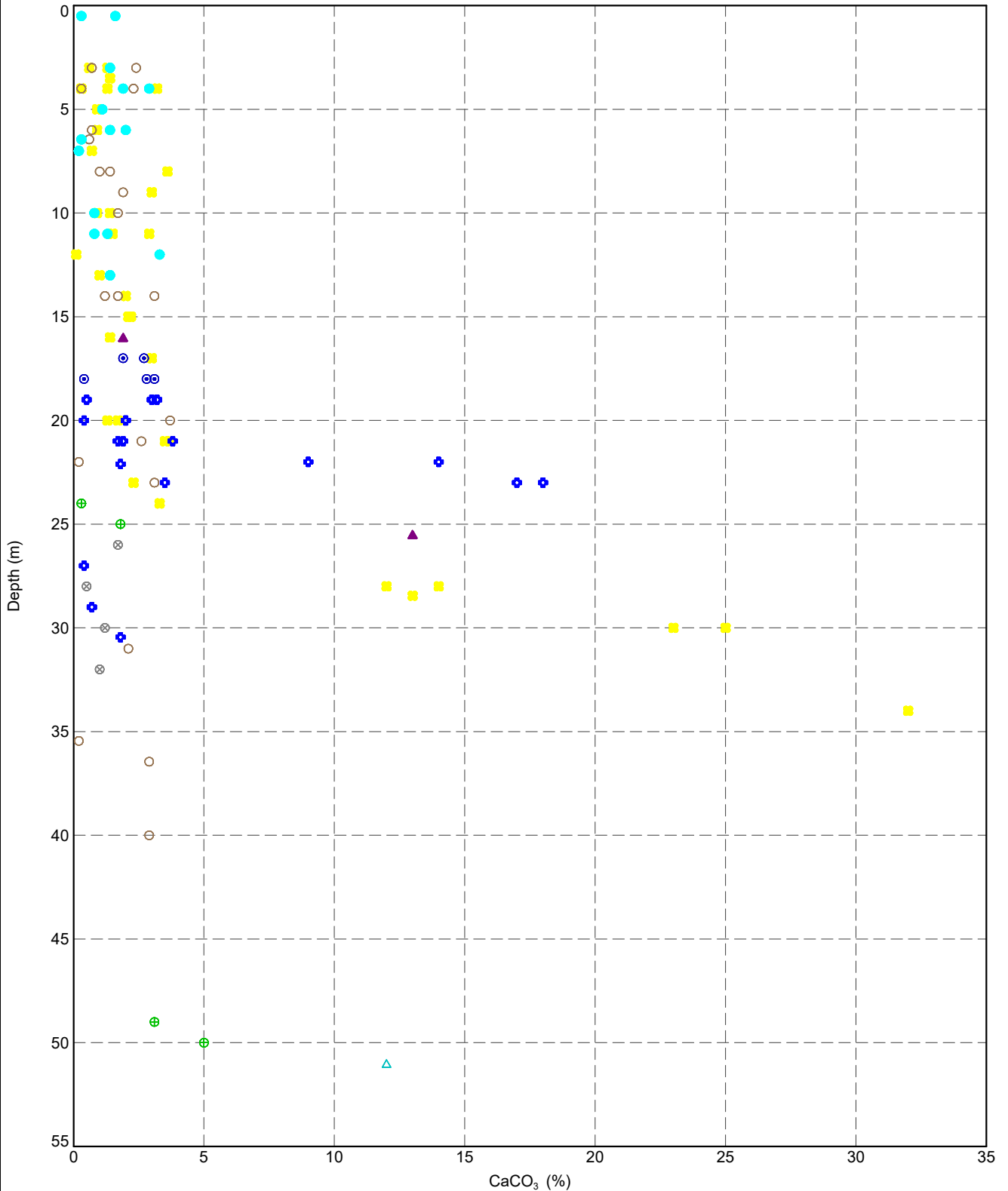
PointID Legend
 ■ ST/1090A
 ● ST/1090B/PRM
 ⊕ ST/1149A
 ◆ ST/1149B/VST_PZW
 ✕ ST/1162A/PZW
 ● ST/1162B/VST_PZW



TITLE
Datgel
Engineer 1
Somewhere, World
Construction Project
CaCO₃ vs. Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	104

DGDTP.5.03.2.LIB.GLB_Graph A.LCH.CACO3.VS.DEPTH.BY.UNIT.DGDTP.5.03.2.GPJ <<DrawingFile>> 9/9/2020 16:39 10.01.00.11 Datgel Lab and In Situ Tool - DGD [Lib: DGDTP.5.03.2.2020-09-08 Proj: DGDTP.5.03.1.2020-09-05]



Geology Unit Legend

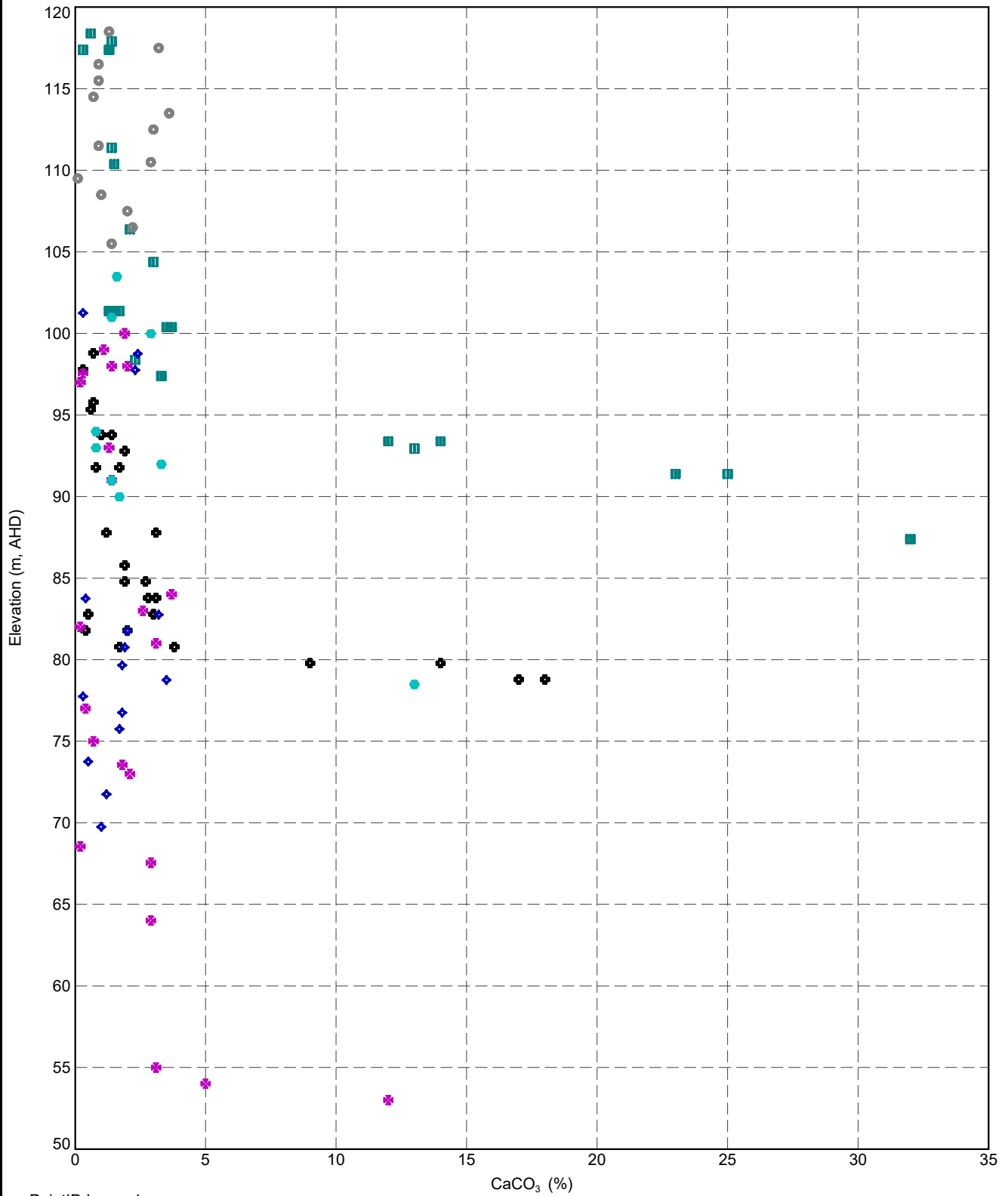
- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- F1 - Alluvial soil (Granular)
- F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- ▲ O(A) - Old Alluvium (Unweathered)
- ⊗ O(B) - Old Alluvium (Partially weathered)
- ⊕ O(C) - Old Alluvium (Distinctly weathered)
- G(VI) - Granite (rocks & associated soils) Residua...



TITLE
Datgel
Engineer 1
Somewhere, World
Construction Project
CaCO₃ vs. Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE			Not To Scale
			A4
PROJECT No	5.03.1	FIGURE No	105

DGD1-P.5.03.2.LIB.GLB_Graph_A.L.CH.CACO3.VS.RL.BY.PTID.DGD1-P.5.03.2.GPJ <<DrawingFiles>> 9/9/2020 16:39 10.01.00.11_Datgel Lab and In Situ Test_DGD | Lib: DGD1-P.5.03.2.2020-09-08 Proj: DGD1-DLST.5.03.1.2020-09-05



- PointID Legend
- ST/1090A
 - ST/1090B/PRM
 - ⊛ ST/1149A
 - ◆ ST/1149B/VST_PZW
 - ⊠ ST/1162A/PZW
 - ST/1162B/VST_PZW

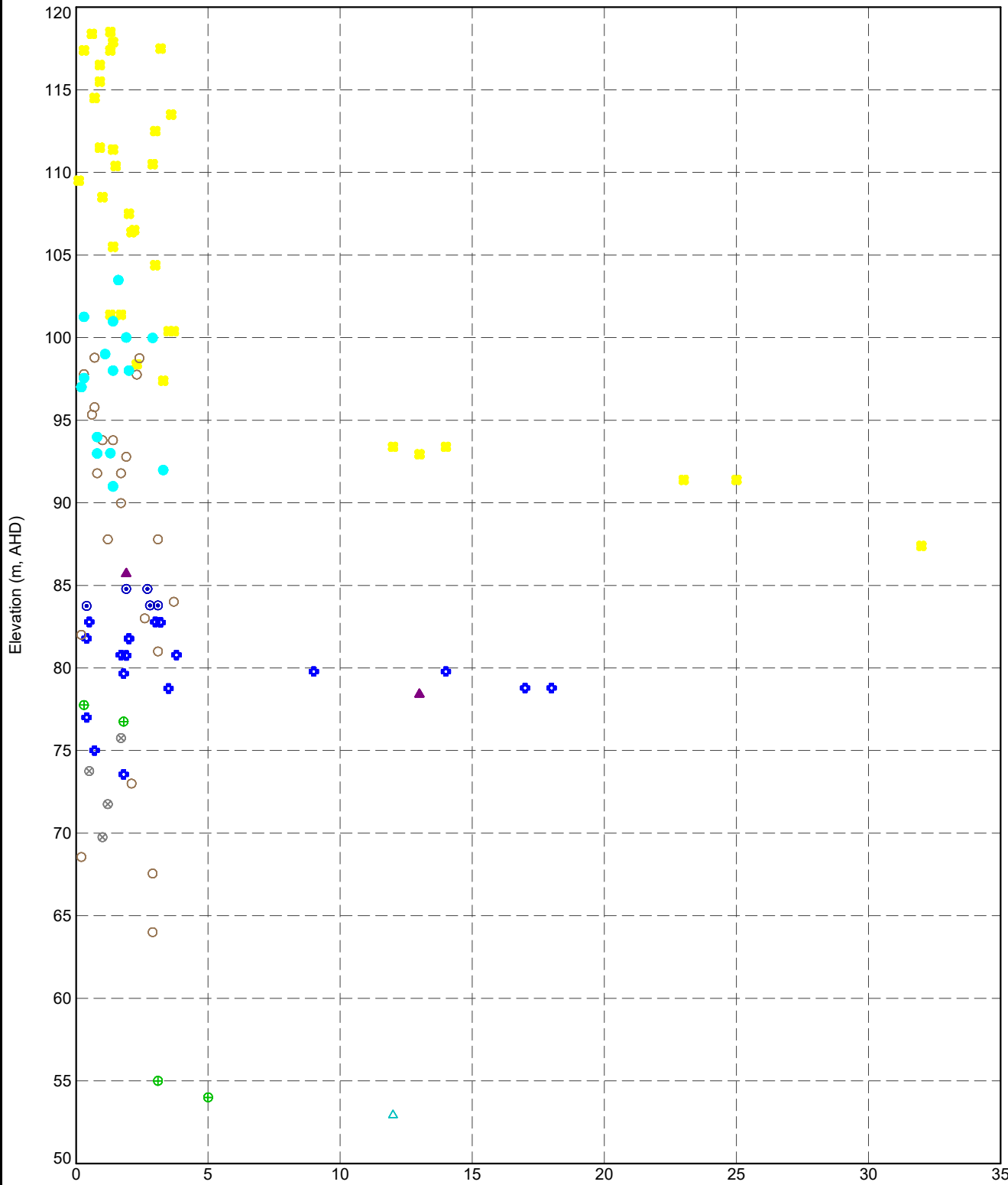


TITLE

Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 CaCO₃ vs. Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	106

DGD1-P.5.03.2.LIB.GLB_Graph A.LCH.CACO3.VS.RL.BY.UNIT.DGD1-P.5.03.2.GPJ -<DrawingFile> 9/9/2020 16:39 10.01.00.11.Datgel.Lab.and.In.Situ.Tool.DGD | Lib.DGD1-P.5.03.2.2020-09-08 Proj.DGD1-DLST.5.03.1.2020-09-05



Geology Unit Legend

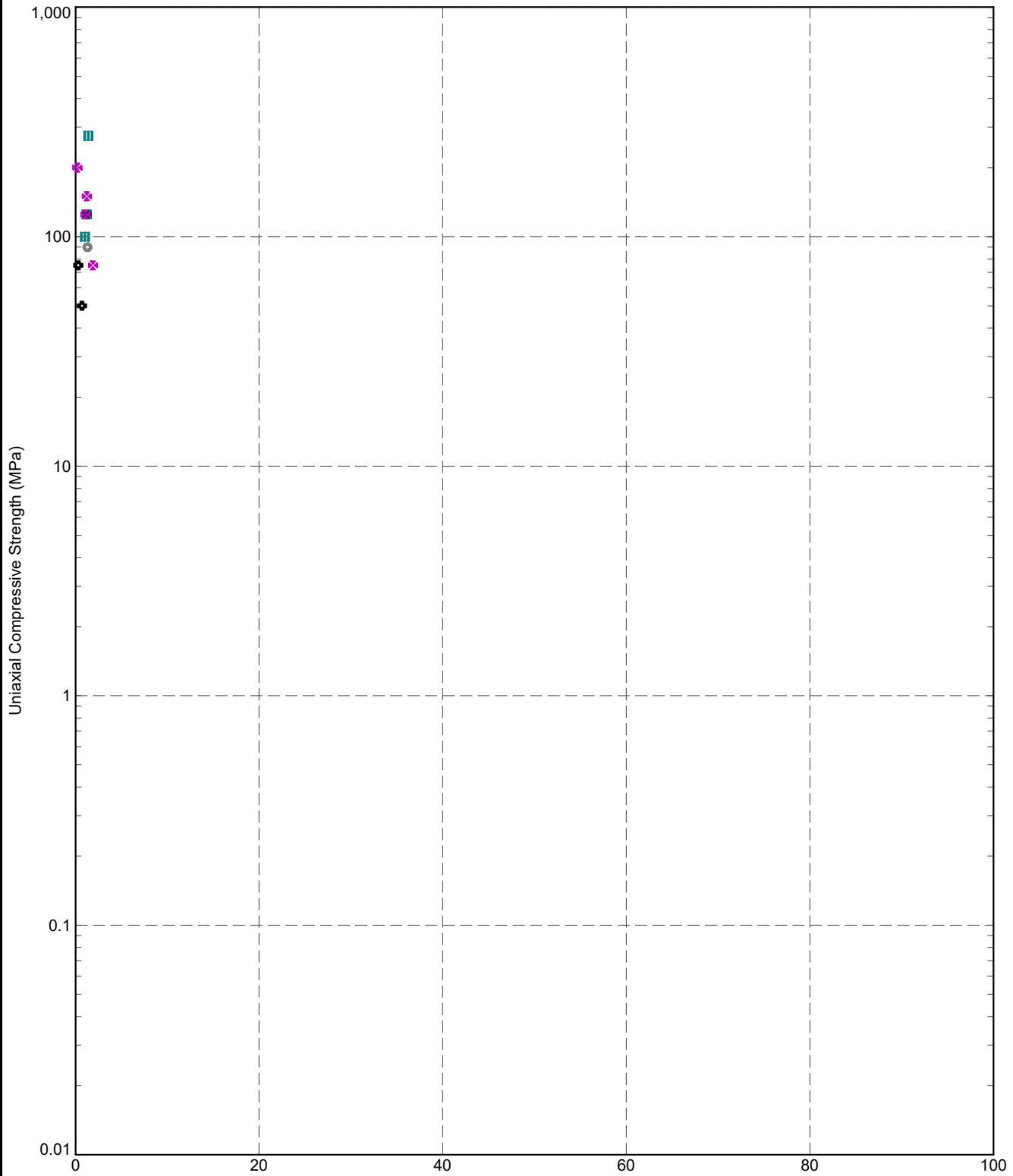
- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- F1 - Alluvial soil (Granular)
- ◆ F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- △ O(A) - Old Alluvium (Unweathered)
- ⊗ O(B) - Old Alluvium (Partially weathered)
- ⊕ O(C) - Old Alluvium (Distinctly weathered)
- G(VI) - Granite (rocks & associated soils) Residua...



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 CaCO₃ vs. Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	107

DGDTP.5.03.1.LIB.GLB.Graph A.L.CH.CACO3.VS.UCS.BY.PTID.DGDTP.5.03.2.GPJ <-DrawingFile>> 9/9/2020 16:39 10.01.00.11 Datgel Lab and In Situ Tool - DGD (Lib: DGDTP.5.03.2.2020-09-08 Proj: DGDTP.5.03.1.2020-09-05)



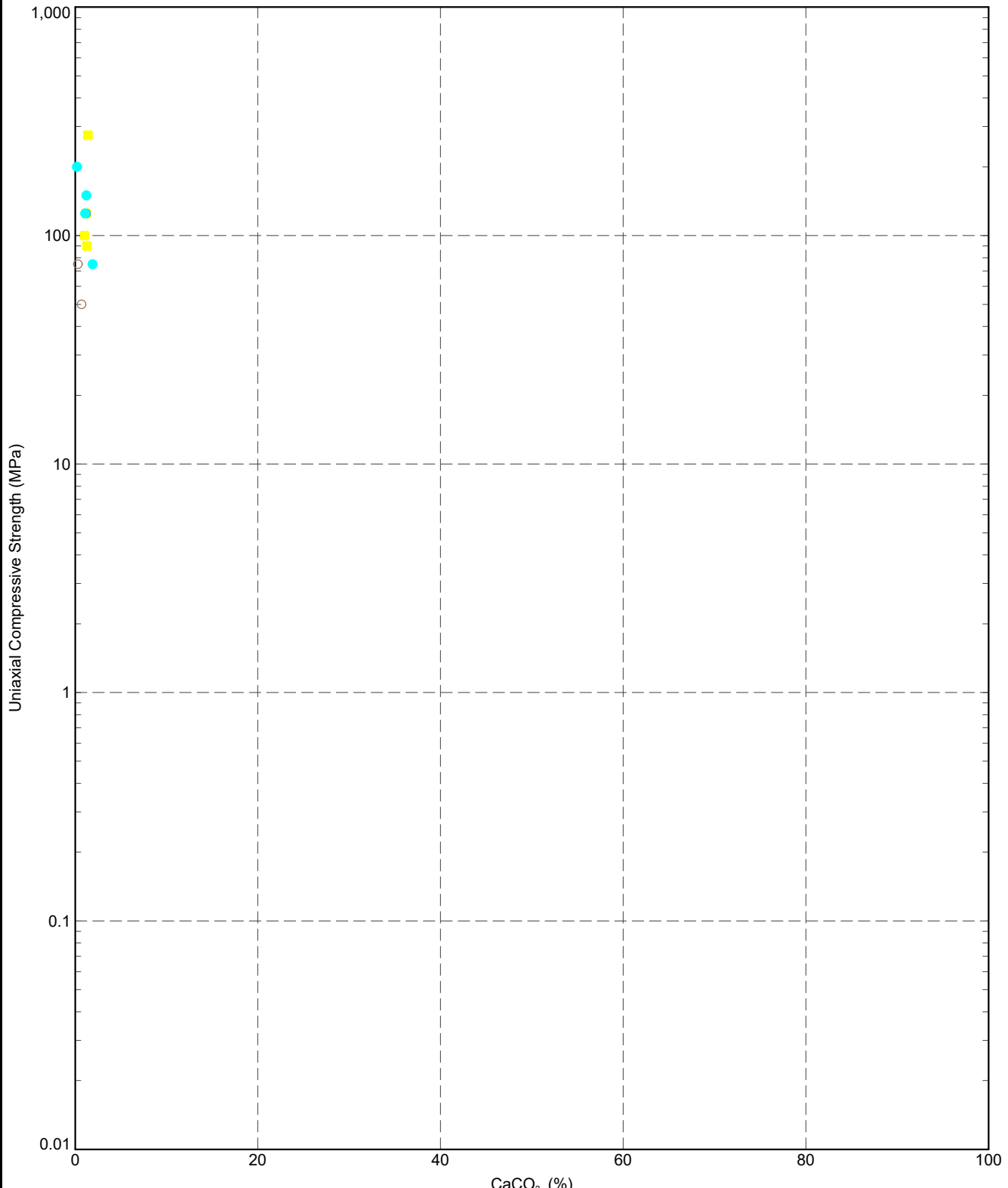
PointID Legend
 ■ ST/1090A
 ● ST/1090B/PRM
 ⊕ ST/1149A
 ✕ ST/1162A/PZW



TITLE
Datgel
Engineer 1
Somewhere, World
Construction Project
CaCO₃ vs. UCS

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	108

DGD1-P.5.03.1.CA.CACO3.VS.UCS.BY.UNIT.DGD1-P.5.03.2.GPJ <-DrawingFile>> 9/9/2020 16:39 10.01.00.11 Datgel Lab and In Situ Tool - DGD1-P.5.03.2.2020-09-09.Pjt.DGD1-DL.ST.5.03.1.2020-09-05



Geology Unit Legend

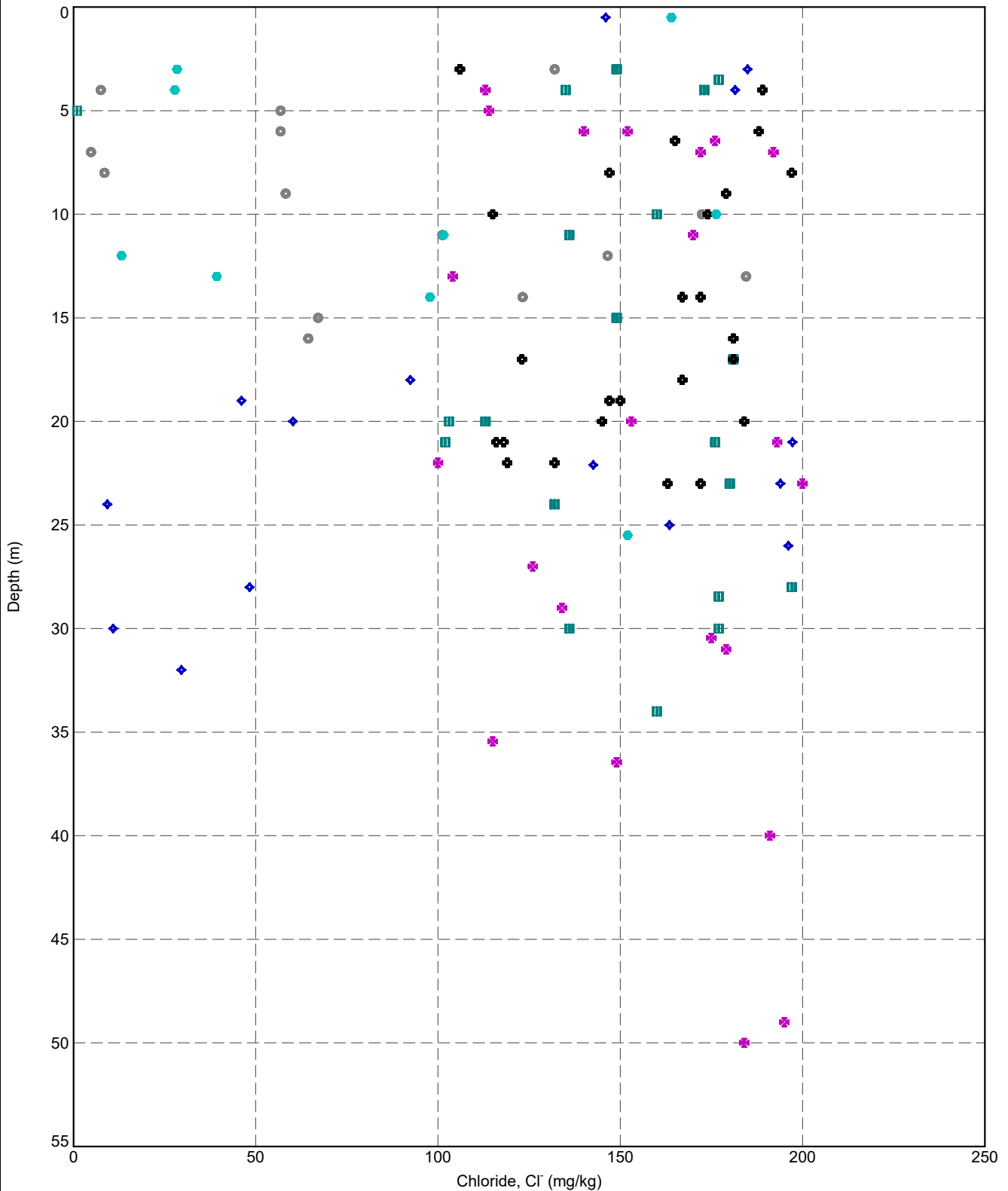
- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- M - Marine Clay
- △ O(A) - Old Alluvium (Unweathered)
- ⊗ O(B) - Old Alluvium (Partially weathered)
- G(VI) - Granite (rocks & associated soils) Residua...
- ✱ G(IV) - Granite (rocks & associated soils) Highly ...
- G(III) - Granite (rocks & associated soils) Modera...
- G(II) - Granite (rocks & associated soils) Slightl...



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 CaCO₃ vs. UCS

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	109

D:\GDT\P5.03.2\LIB\GUB_Graph_A\CHLORIDE\VS\DEPTH\BY_PTD_ID\GDT\P5.03.2\GPIJ <-DrawingFile>> 9/9/2020 16:39 10.01.00.11 Datgel Lab and In Situ Tool - DGD | Lnk: DGD\P5.03.2.2020-09-08.Plt_DGDT-DLST.5.03.1.2020-09-05



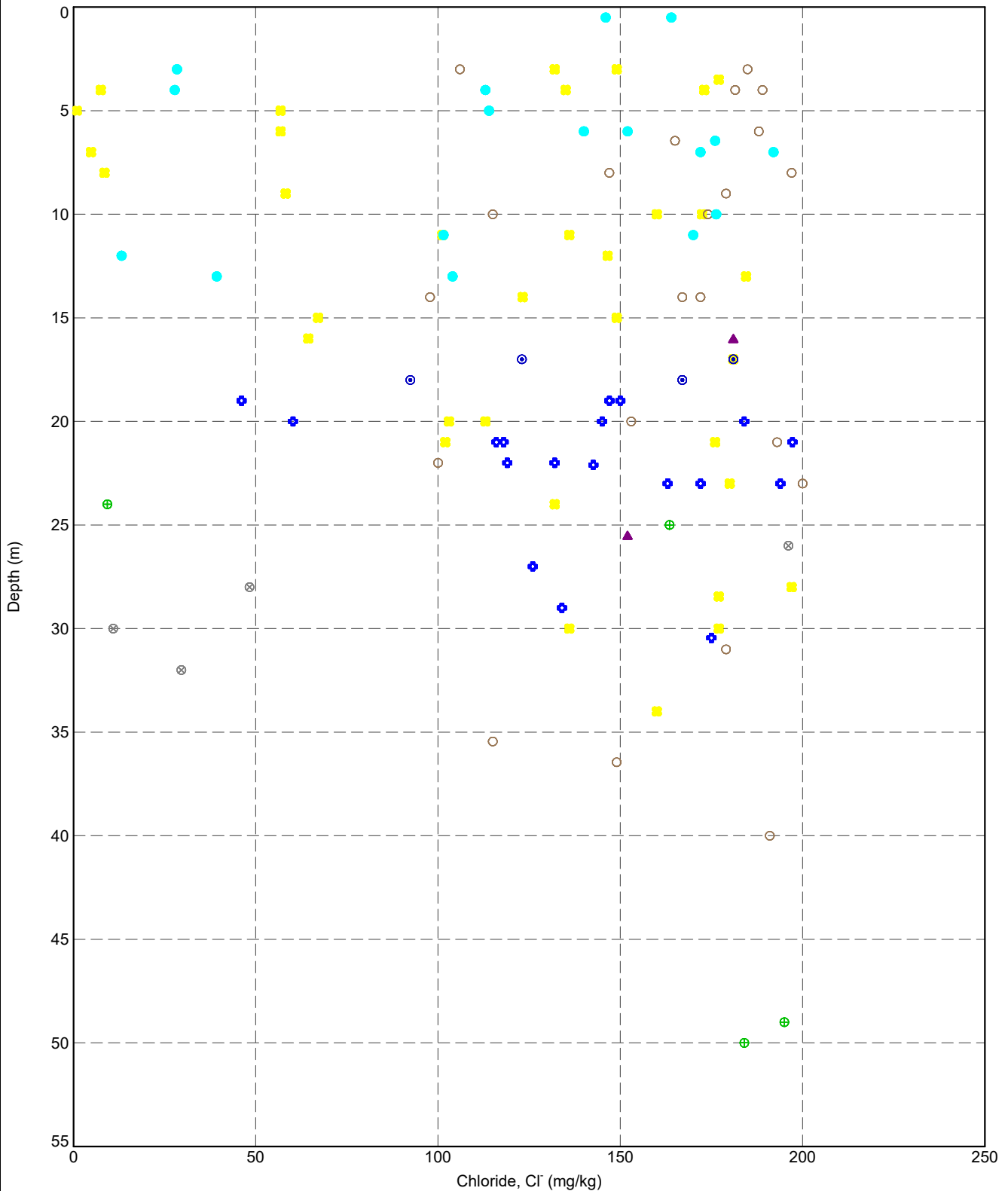
- PointID Legend**
- ST/1090A
 - ST/1090B/PRM
 - ⊕ ST/1149A
 - ◆ ST/1149B/VST_PZW
 - ✱ ST/1162A/PZW
 - ST/1162B/VST_PZW



TITLE
Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Chloride vs. Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	110

DGD1-P.5.03.2.LIB.GLB_Graph_A.L.CH.CHLORIDE.VS.DEPTH.BY UNIT DGD1-P.5.03.2.03.1.11_Datgel Lab and in Situ Tool - DGD1-P.5.03.2.03.1.11_Datgel Lab and in Situ Tool - DGD1-P.5.03.1.2020-09-05



Geology Unit Legend

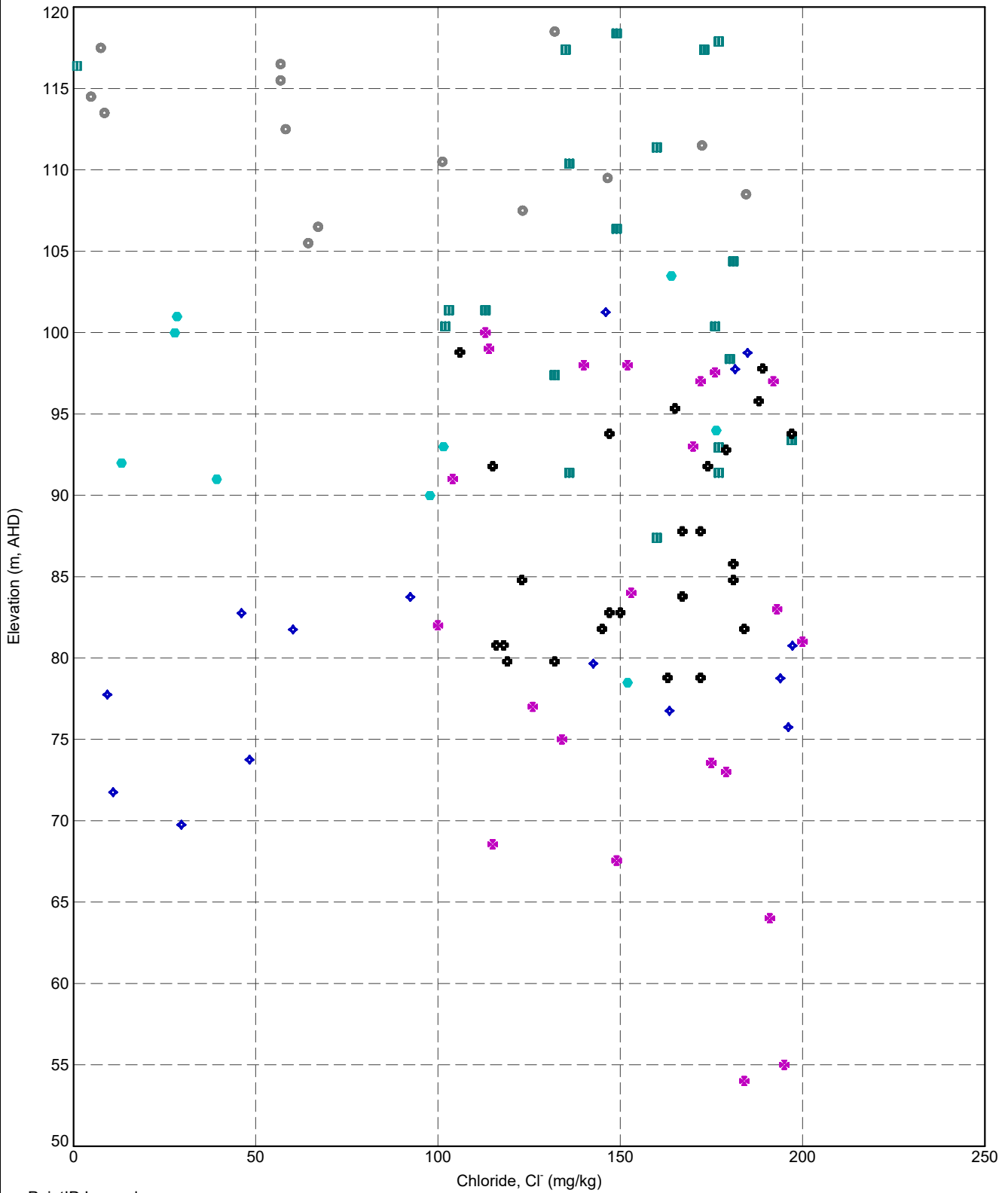
- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- F1 - Alluvial soil (Granular)
- ⊕ F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- △ O(A) - Old Alluvium (Unweathered)
- ⊗ O(B) - Old Alluvium (Partially weathered)
- ⊕ O(C) - Old Alluvium (Distinctly weathered)
- G(VI) - Granite (rocks & associated soils) Residua...



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Chloride vs. Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	111

DGD1-P.5.03.1.LIB.GLB_Graph_A.L.Chloride_V.S.RL.BY.PTID.DGD1-P.5.03.2.GPJ -<DrawingFiles> 9/9/2020 16:40:10.01.00.11_DatgelLib_and_In_Situ_Tool_DGD | Lib: DGD1-P.5.03.2_2020-08-08 Pj: DGD1-DLST5.03.1_2020-08-05



- PointID Legend**
- ST/1090A
 - ST/1090B/PRM
 - ✕ ST/1149A
 - ◆ ST/1149B/VST_PZW
 - ✱ ST/1162A/PZW
 - ST/1162B/VST_PZW

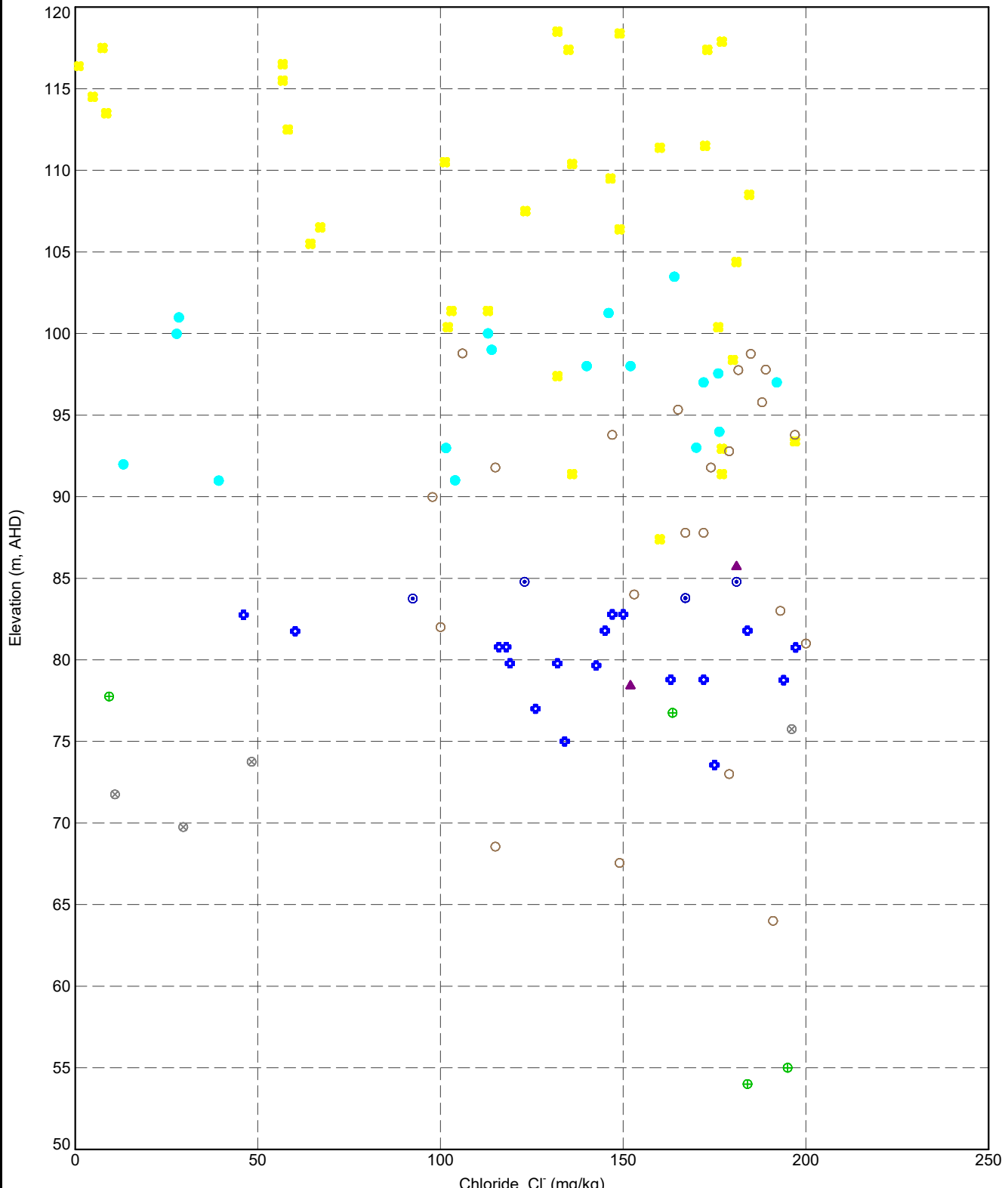


TITLE

Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Chloride vs. Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	112

DGD1-P.5.03.1-CL-CHLORIDE-VS-RBY-UNIT-DGD1-P.5.03.2-GPJ -<DrawingFile> 9/9/2020 16:40:10.01.00.11_Datgel Lab and In Situ Tool - DGD | Lib: DGD1-P.5.03.2_2020-09-08 Proj: DGD1-DIST.5.03.1_2020-09-05



Geology Unit Legend

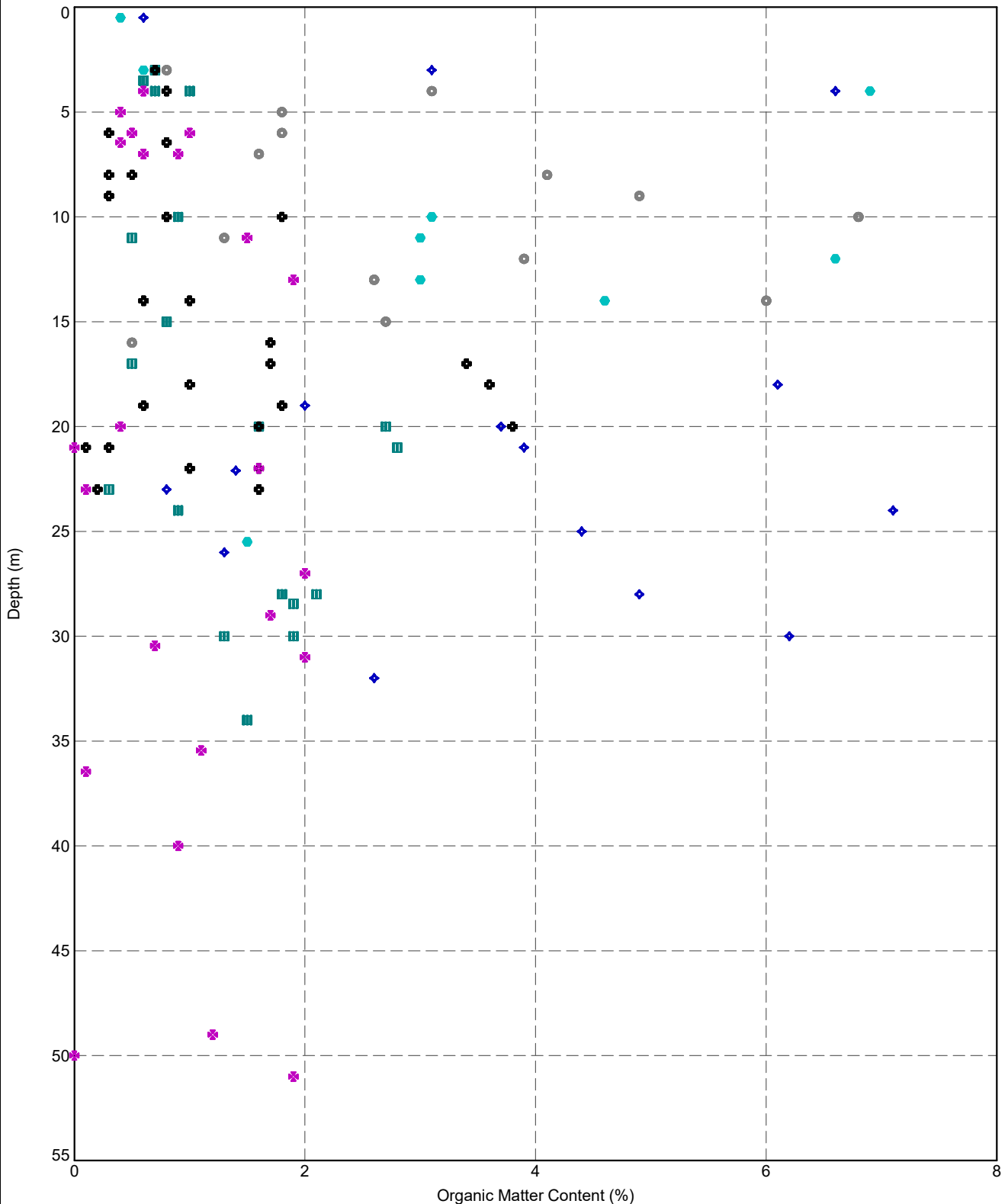
- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- F1 - Alluvial soil (Granular)
- ⊕ F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- △ O(A) - Old Alluvium (Unweathered)
- ⊗ O(B) - Old Alluvium (Partially weathered)
- ⊕ O(C) - Old Alluvium (Distinctly weathered)
- G(VI) - Granite (rocks & associated soils) Residua...



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Chloride vs. Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE			Not To Scale
PROJECT No			A4
5.03.1			FIGURE No 113

D:\P5.03.2\LIB\GLB_Graph_A.L\CH\ORGANICCONTENT_VSDEPTH\BY_PTID_DGDT.P5.03.2\2020-09-08_Plot_DGDT.DLS.T5.03.1.2020-09-05



- PointID Legend**
- ST/1090A
 - ST/1090B/PRM
 - ⊕ ST/1149A
 - ◆ ST/1149B/VST_PZW
 - ✕ ST/1162A/PZW
 - ST/1162B/VST_PZW

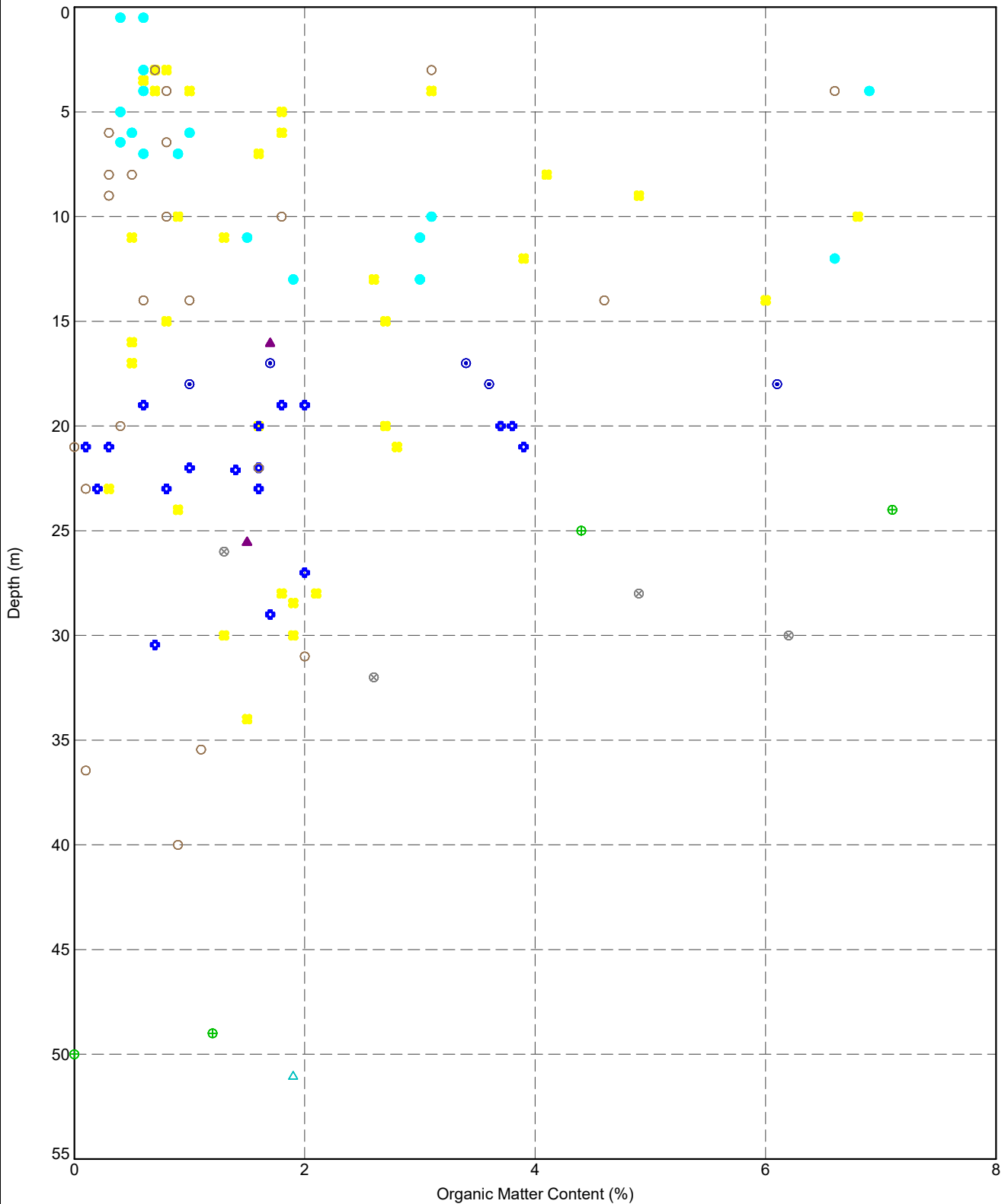


TITLE

Datgel
Engineer 1
Somewhere, World
Construction Project
Organic Matter Content vs. Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	114

D:\P5.03.2\LIB\GLB_Graph_A\CH\ORGANICCONTENT_VSDEPTH\BY UNIT_DGDT.P.5.03.2.GPJ --DrawingFile--> 9/9/2020 16:40 10.01.00.11 Datgel Lab and In Situ Tools - DGDT.P.5.03.2.2020-09-09.Plot.DGDT.CJLST.5.03.1.2020-09-05



Geology Unit Legend

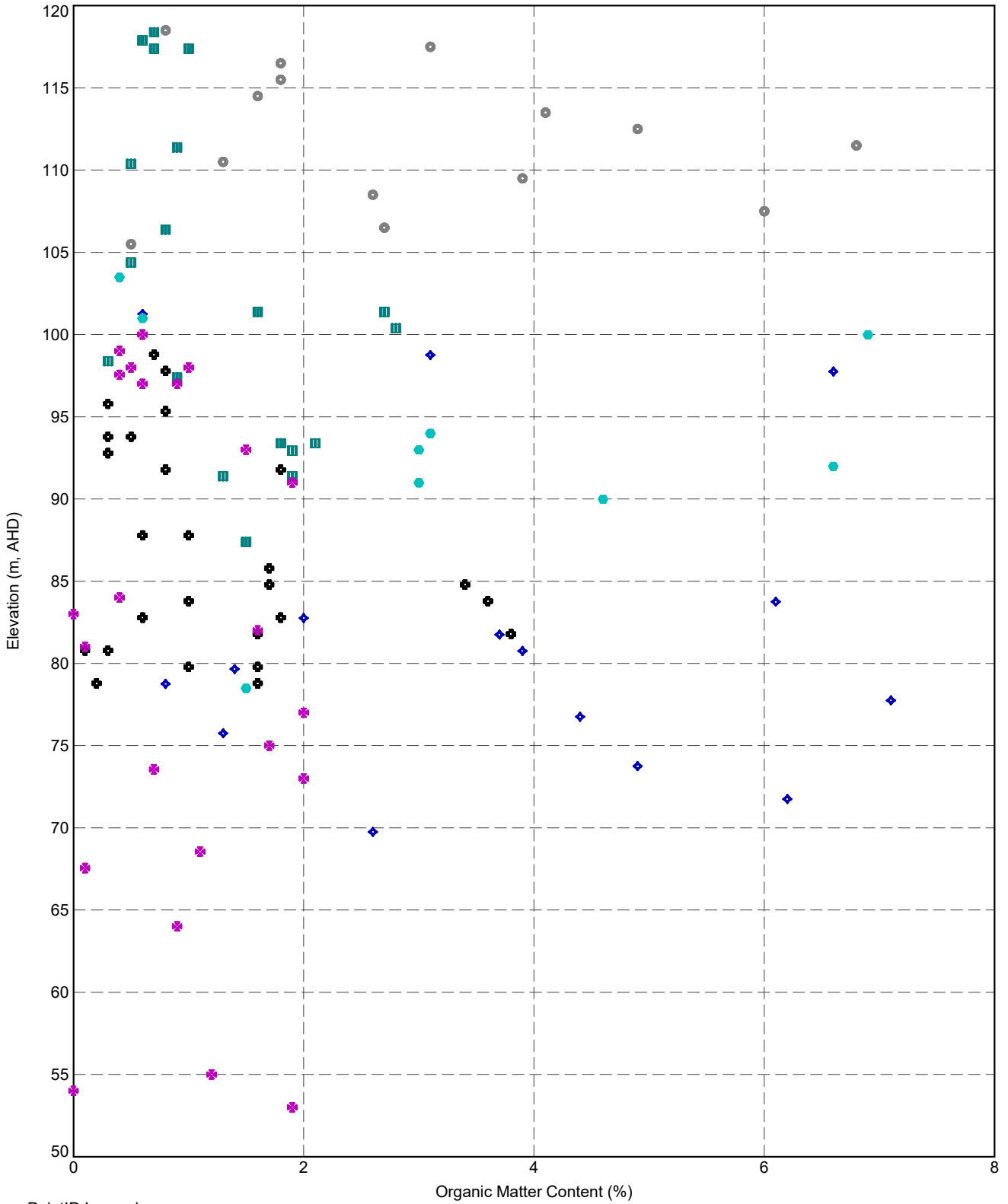
- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- F1 - Alluvial soil (Granular)
- F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- △ O(A) - Old Alluvium (Unweathered)
- ⊗ O(B) - Old Alluvium (Partially weathered)
- ⊕ O(C) - Old Alluvium (Distinctly weathered)
- G(VI) - Granite (rocks & associated soils) Residua...



TITLE
Datgel
Engineer 1
Somewhere, World
Construction Project
Organic Matter Content vs. Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	115

DGD1-P.5.03.1.CH.ORGANICCONTENT_VSR_LBY.PTID.DGD1-P.5.03.2.GPJ -<DrawingFile> 9/9/2020 16:40:10.01.00.11.Datgel.Lab.and/In.Situ.Tool - DGD | Lib: DGD1-P.5.03.2.2020-09-08.Fri; DGD1-DLIST.5.03.1.2020-09-05



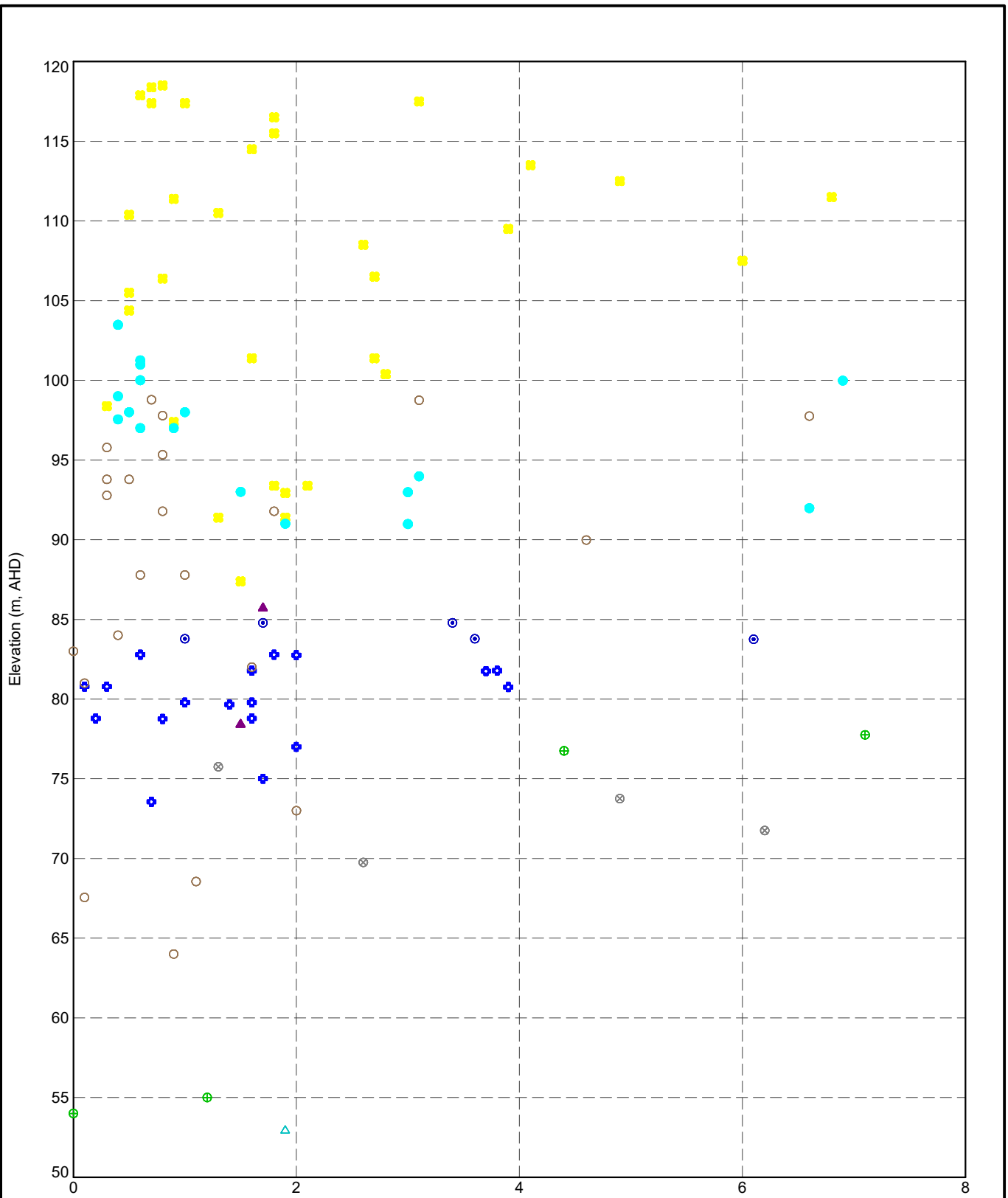
PointID Legend
 ■ ST/1090A
 ● ST/1090B/PRM
 ✖ ST/1149A
 ◆ ST/1149B/VST_PZW
 ✖ ST/1162A/PZW
 ● ST/1162B/VST_PZW



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Organic Matter Content vs. Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	116

DGDTP.5.03.2.LIB.GLB_Graph_A.LCH.ORGANICCONTENT.VS.RL.BY.UNIT.DGDTP.5.03.2.GPJ_<<DrawingFile>>_9/9/2020,16:40:10.01,00.11_Datgel_Lab_and_In_Situ_Technology_DGD | Lib: DGDTP.5.03.2, 2020-09-08 Proj: DGDTP-DIST.5.03.1, 2020-09-05



Geology Unit Legend

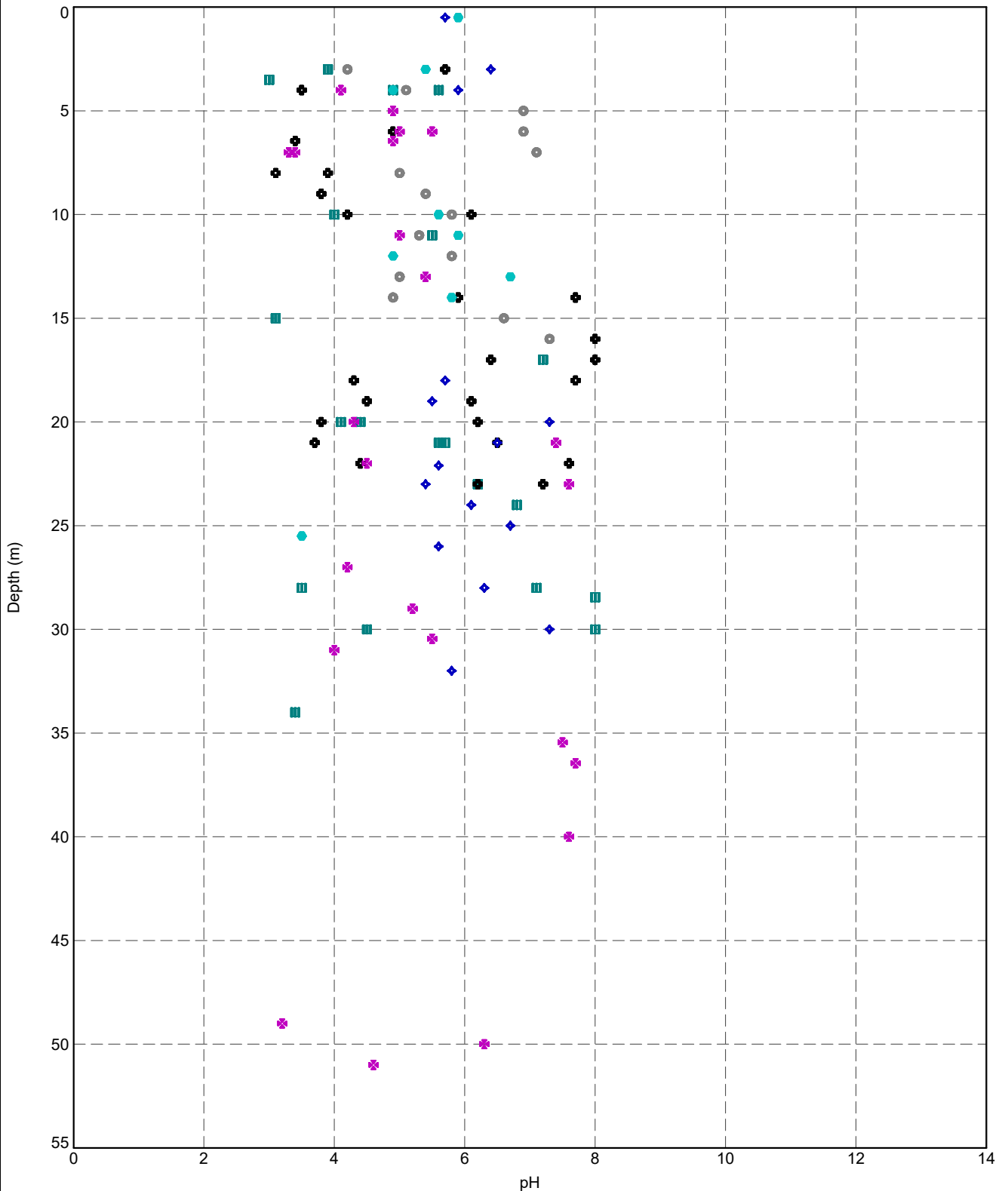
- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- F1 - Alluvial soil (Granular)
- ⊕ F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- △ O(A) - Old Alluvium (Unweathered)
- ⊗ O(B) - Old Alluvium (Partially weathered)
- ⊕ O(C) - Old Alluvium (Distinctly weathered)
- G(VI) - Granite (rocks & associated soils) Residua...



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Organic Matter Content vs. Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	117

DGD1-P-5.03.1-UB-GLB_Graph_A.LCH.PHVS.DEPTH.BY.PTID_DGD1-P-5.03.2.GPJ <<DrawingFile>> 9/9/2020 16:40 10.01.00.11 Datgel Lab and In Situ Tool_DGD | Lib_DGD1-P-5.03.2_2020-09-08 Proj_DGD1-DLST-5.03.1.2020-09-05



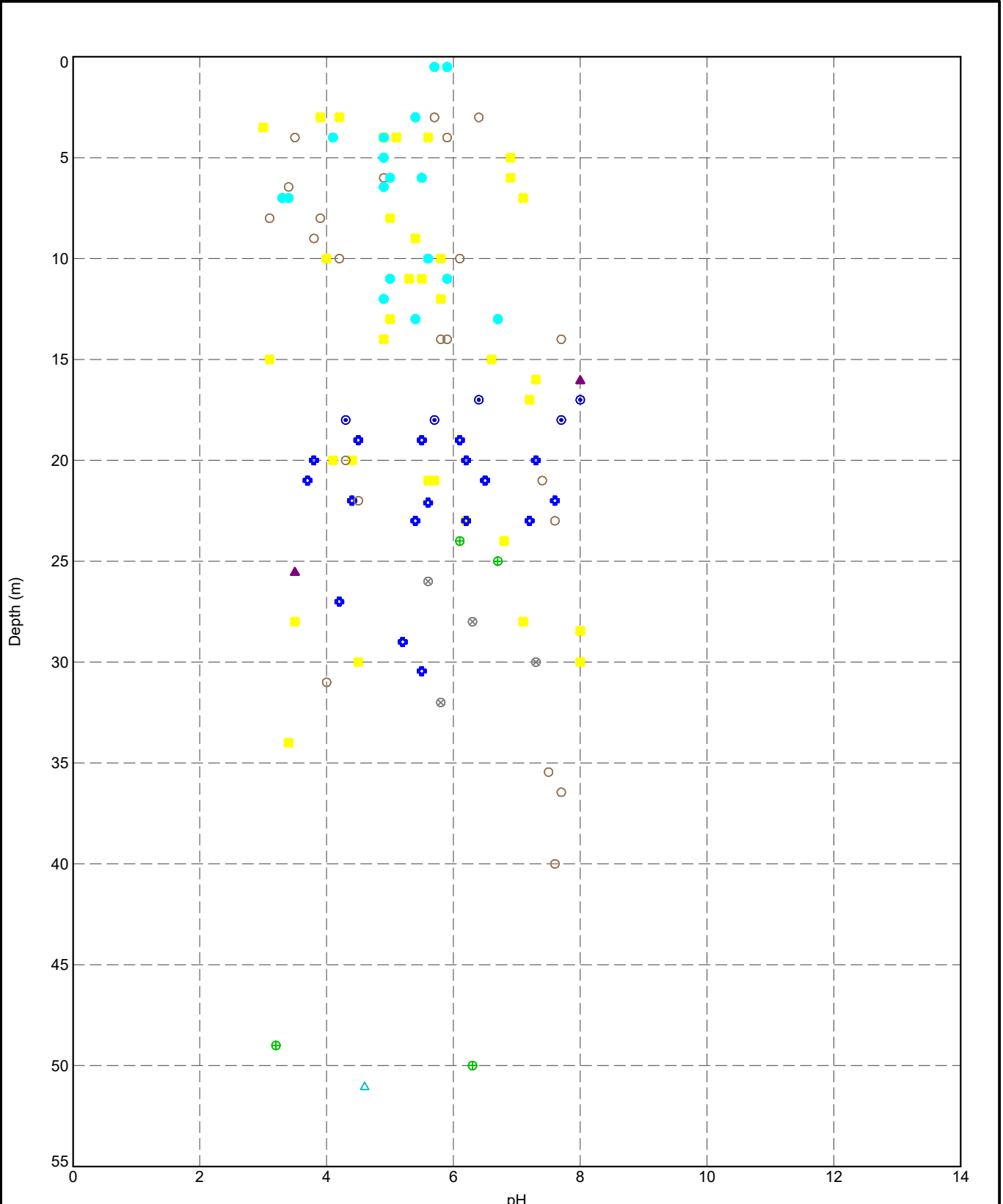
- PointID Legend
- ST/1090A
 - ST/1090B/PRM
 - ⊕ ST/1149A
 - ◆ ST/1149B/VST_PZW
 - ✕ ST/1162A/PZW
 - ST/1162B/VST_PZW



TITLE
Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 pH versus Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	118

DGD1-P-5.03.1-UB.GLB - Graph A.LCH.PHVS.DEPTH BY UNIT DGD1-P-5.03.2.GPJ - <DrawingFiles> 9/9/2020 16:40 10.01.00.11 Datgel Lab and In Situ Test - DGD | Lib: DGD1-P-5.03.2.2020-09-08 Proj: DGD1-DLIST.03.1.2020-09-05



Geology Unit Legend

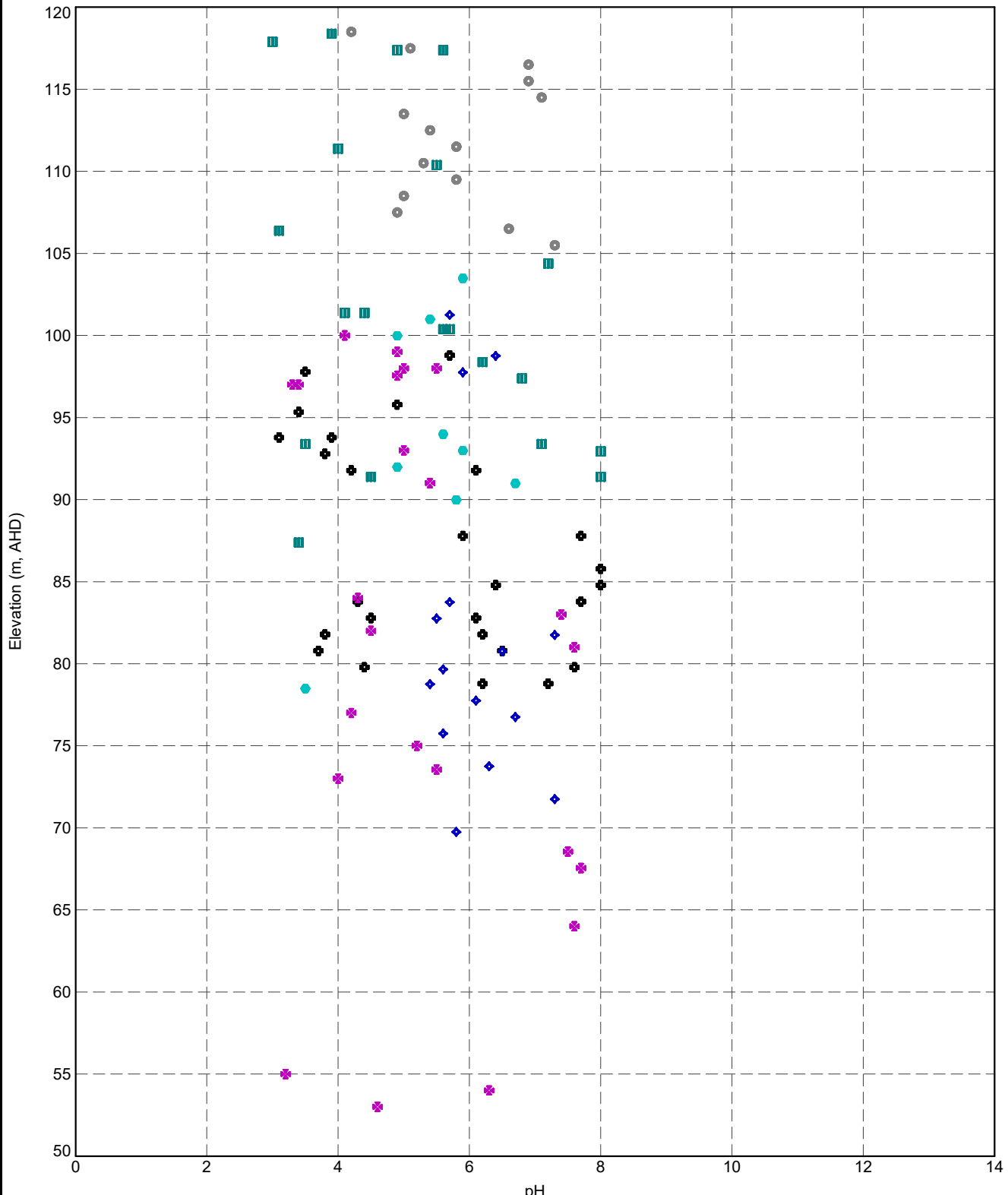
- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- ⊙ F1 - Alluvial soil (Granular)
- ⊕ F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- △ O(A) - Old Alluvium (Unweathered)
- ⊗ O(B) - Old Alluvium (Partially weathered)
- ⊕ O(C) - Old Alluvium (Distinctly weathered)
- G(VI) - Granite (rocks & associated soils) Residua...



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 pH versus Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	119

D:\P5.03.2\LIB\G.LB_Corphy_A.LCH\PH\VS.RL_BY_PTID.DGDT.P.5.03.2.GPJ -<DrawingFile> 9/9/2020 16:40 10.01.00.11 Datgel Lab and in Situ Tool -DGDT.Lab -DGDT.P.5.03.2.2020-09-09.Pjt.DGDT-CL-ST.5.03.1.2020-09-05



- PointID Legend**
- ST/1090A
 - ST/1090B/PRM
 - ⊕ ST/1149A
 - ◆ ST/1149B/VST_PZW
 - ✕ ST/1162A/PZW
 - ST/1162B/VST_PZW

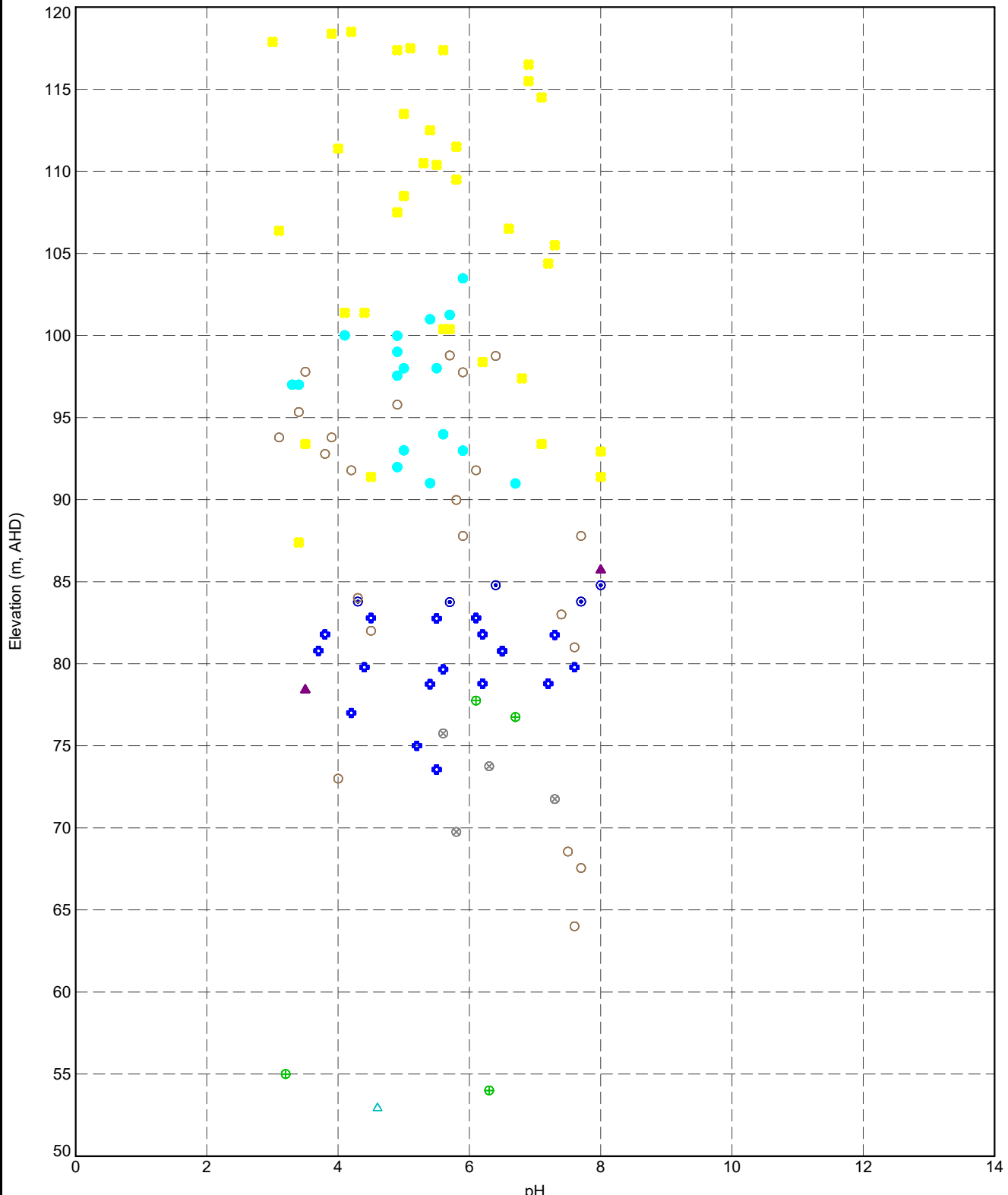


TITLE

Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 pH versus Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	120

DGD1-P.5.03.2.LIB.GLB_Graph_A.LCH.PHYVS.RL.BY UNIT_DGD1-P.5.03.2.GPJ --DrawingFile-- 9/9/2020 16:41 10.01.0011 Datgel Lab and In Situ Test - DGD1 Lib - DGD1-P.5.03.2.2020-09-08 Plt_DGD1-DUST_5.03.1_2020-09-05



Geology Unit Legend

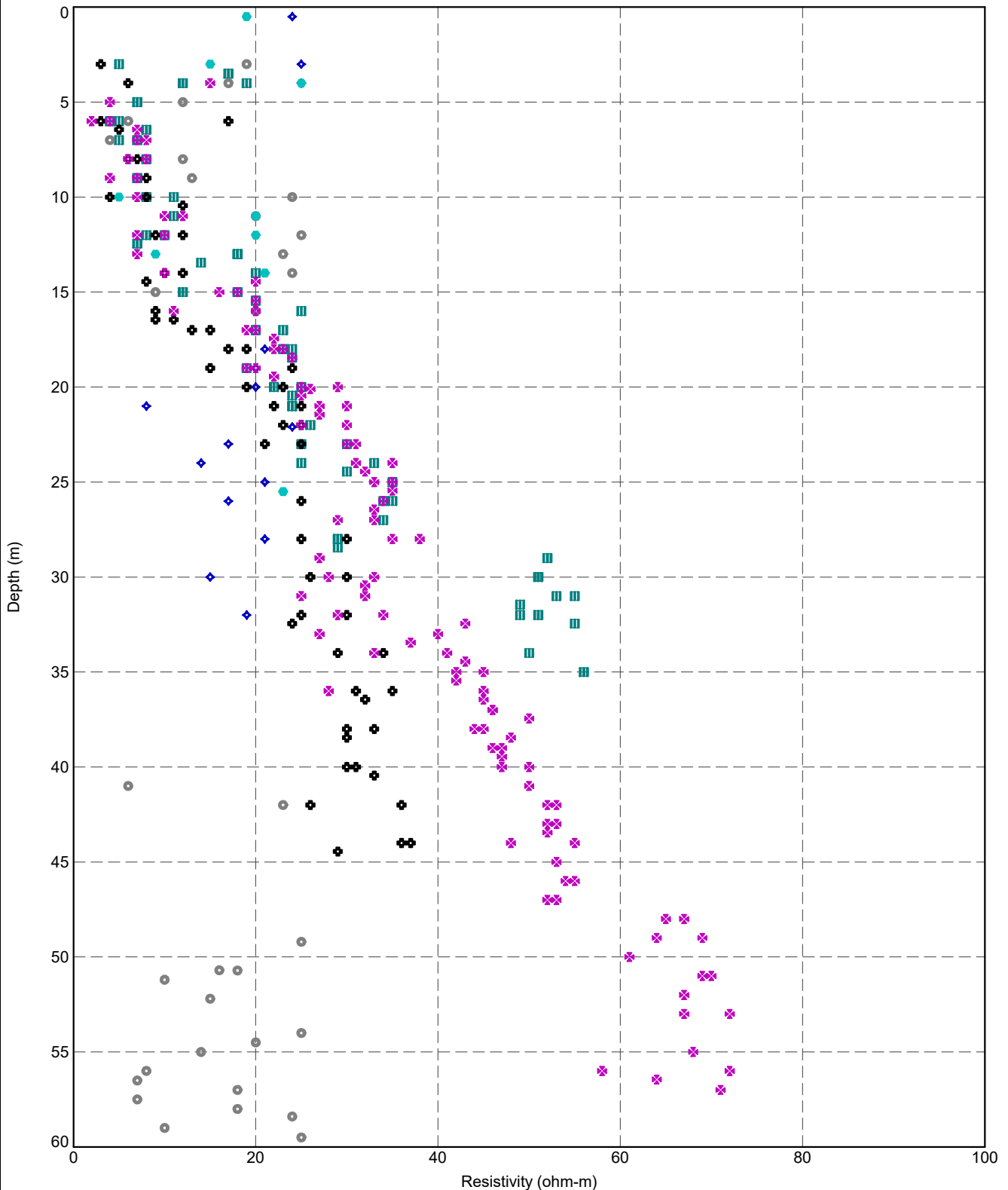
- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- F1 - Alluvial soil (Granular)
- F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- ▲ O(A) - Old Alluvium (Unweathered)
- X O(B) - Old Alluvium (Partially weathered)
- ⊕ O(C) - Old Alluvium (Distinctly weathered)
- G(VI) - Granite (rocks & associated soils) Residua...



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 pH versus Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	121

DGD1-P.5.03.2.LIB.GLB_Graph_A.L.CH.RESISTIVITY_VS_DEPTH_BY_PTID_DGD1-P.5.03.2.GPJ -<DrawingFiles> 9/9/2020 16:41 10.01.00.11_Datgel.Lab.and.In.Situ.Tool_DGD | Lib: DGD1-P.5.03.2_2020-09-08 Pj: DGD1-DLST5.03.1_2020-09-05



- PointID Legend**
- ST/1090A
 - ST/1090B/PRM
 - ST/1149A
 - ◆ ST/1149B/VST_PZW
 - ✕ ST/1162A/PZW
 - ST/1162B/VST_PZW

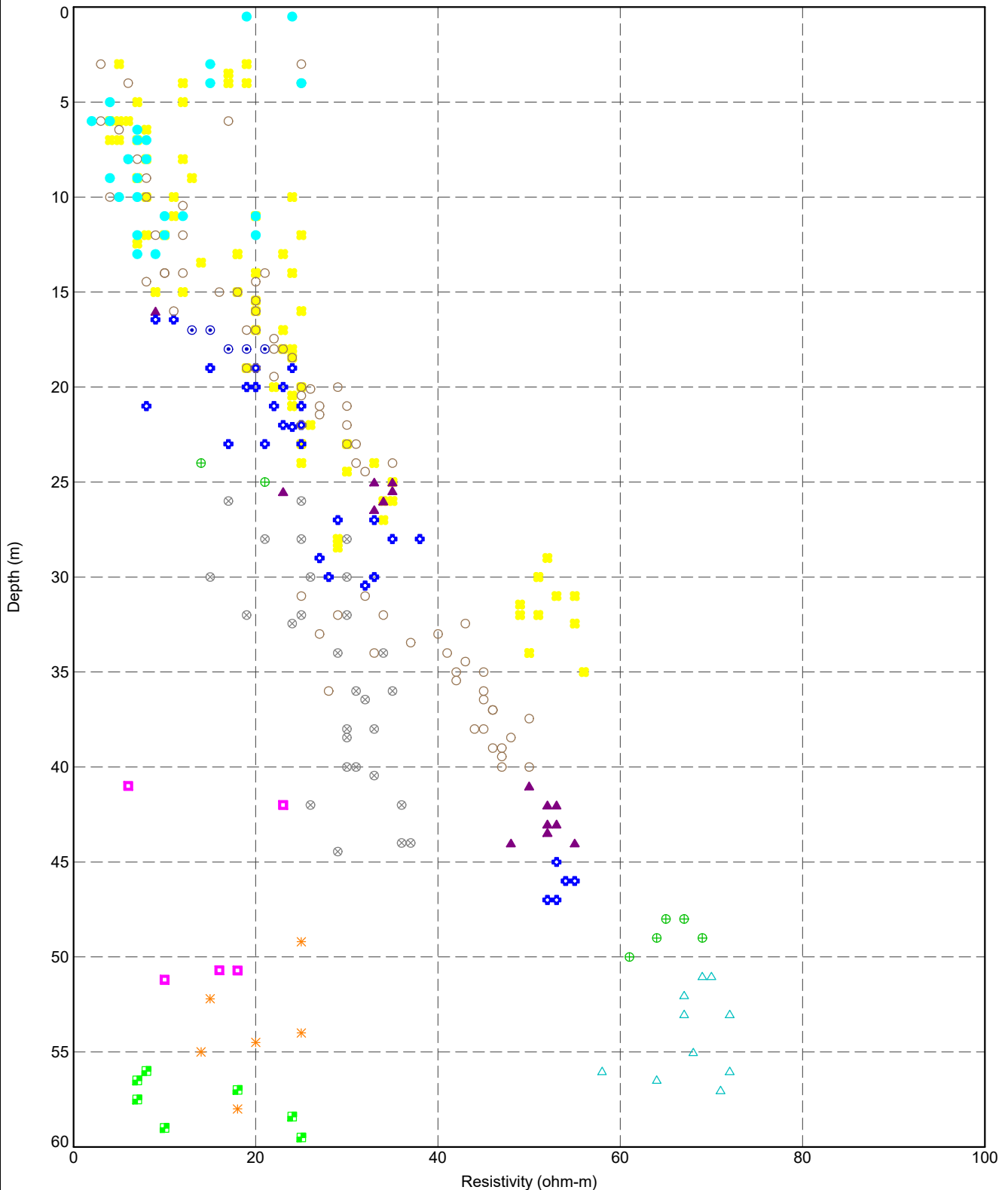


TITLE

Datgel
Engineer 1
Somewhere, World
Construction Project
Resistivity versus Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	122

DGD1-P-5.03.2-LIB-GLB-Graph-A-1-CH-RESISTIVITY VS DEPTH BY UNIT DGD1-P-5.03.2.GPJ - c:\Drawings\Files> 9/9/2020 16:41 10:01:00.11 Datgel Lab and In Situ Tool - DGD1 | Lib: DGD1-P-5.03.2.2020-09-08 Proj: DGD1-DIST-5.03.1.2020-09-05



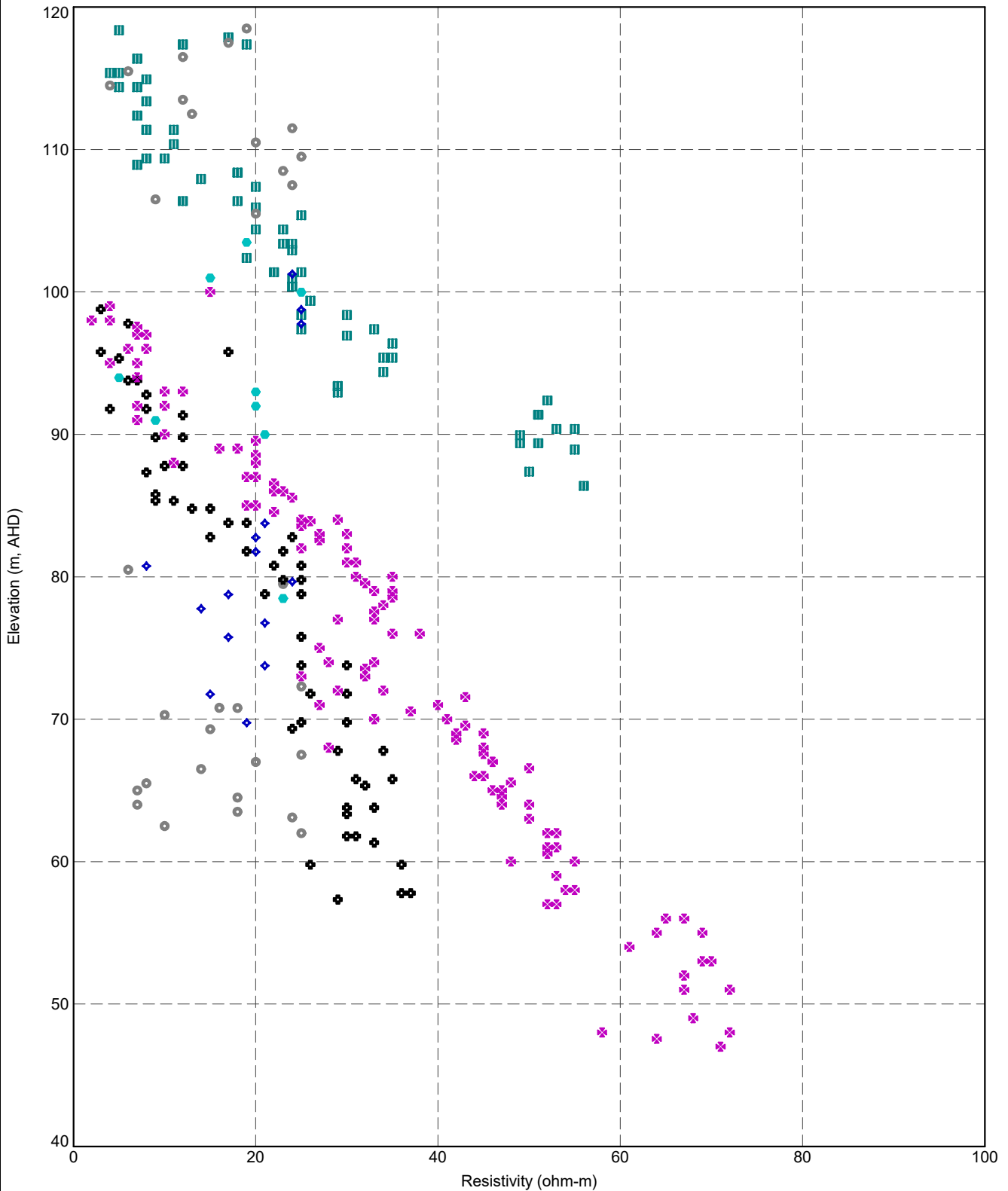
Geology Unit Legend

- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- F1 - Alluvial soil (Granular)
- F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- △ O(A) - Old Alluvium (Unweathered)
- ⊗ O(B) - Old Alluvium (Partially weathered)
- ⊕ O(C) - Old Alluvium (Distinctly weathered)
- G(VI) - Granite (rocks & associated soils) Residua...
- ✱ G(IV) - Granite (rocks & associated soils) Highly ...
- G(III) - Granite (rocks & associated soils) Modera...
- G(II) - Granite (rocks & associated soils) Slightl...



TITLE	Datgel Engineer 1 Somewhere, World Construction Project Resistivity versus Depth		
DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	123

DGD1-P.5.03.2.LIB.GLB_Graph A.L.CH.RESISTIVITY VS RL BY FTID DGD1-P.5.03.2.GPJ -c:\drawing\ms> 9/9/2020 16:41 1001.001.1 Datgel Lab and In Situ Tool - DGD [Lib: DGD1-P.5.03.2 2020-09-08 Proj: DGD1-CLUST 5.03.1 2020-09-05]



- PointID Legend**
- ST/1090A
 - ST/1090B/PRM
 - ⊕ ST/1149A
 - ◆ ST/1149B/VST_PZW
 - ⊗ ST/1162A/PZW
 - ST/1162B/VST_PZW

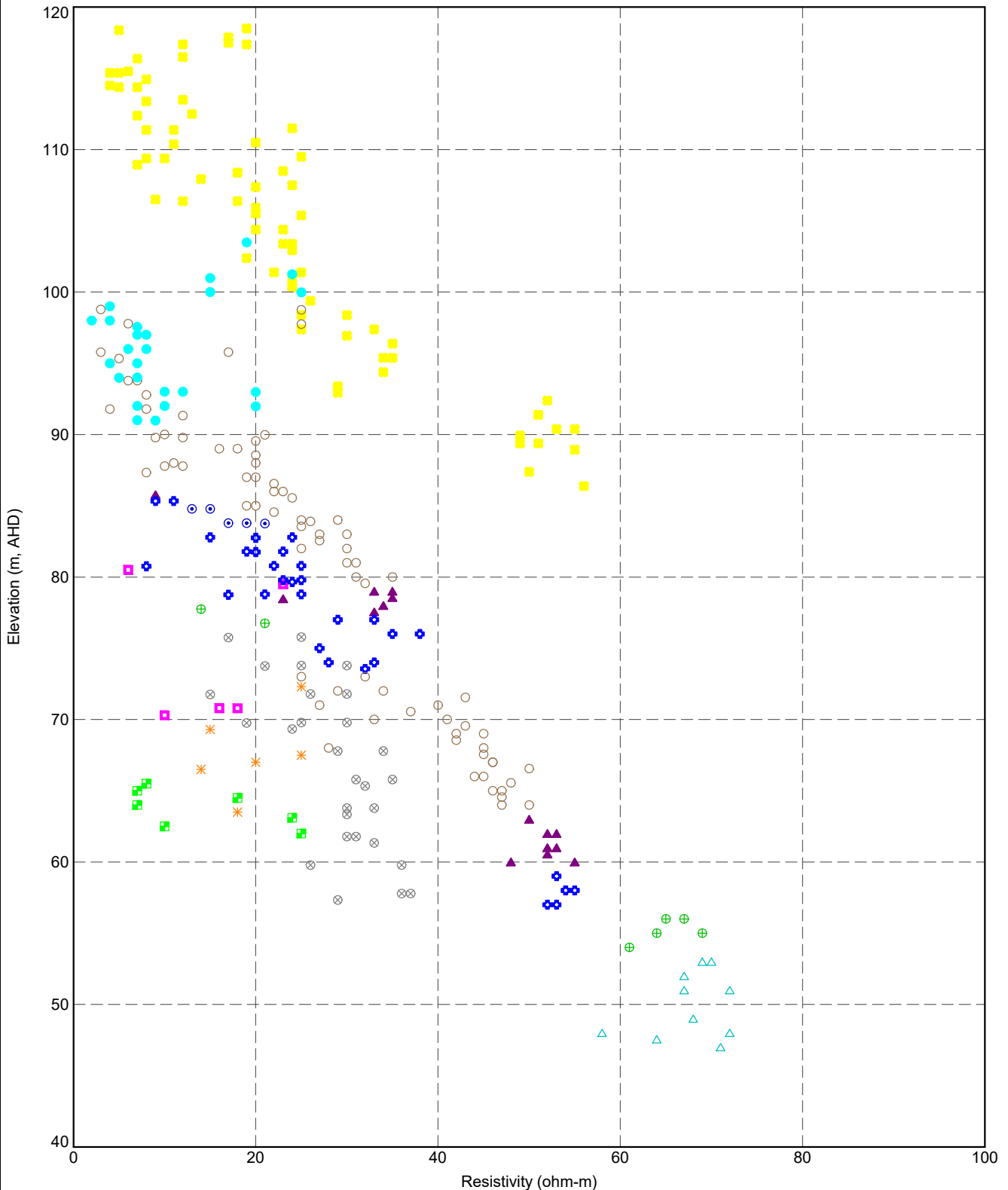


TITLE

Datgel
Engineer 1
Somewhere, World
Construction Project
Resistivity versus Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	124

DGD1-P.5.03.1.GLB Graph A.LCH.RESISTIVITY VS RL.BY UNIT DGD1-P.5.03.2.GPJ -<DrawingFile>> 9/9/2020 16:41 10.01.00.11 Datgel Lab and in Situ Tool - DGD - DGD1-P.5.03.2.2020-09-08 Proj: DGD1-CA-ST-5.03.1.2020-09-05



Geology Unit Legend

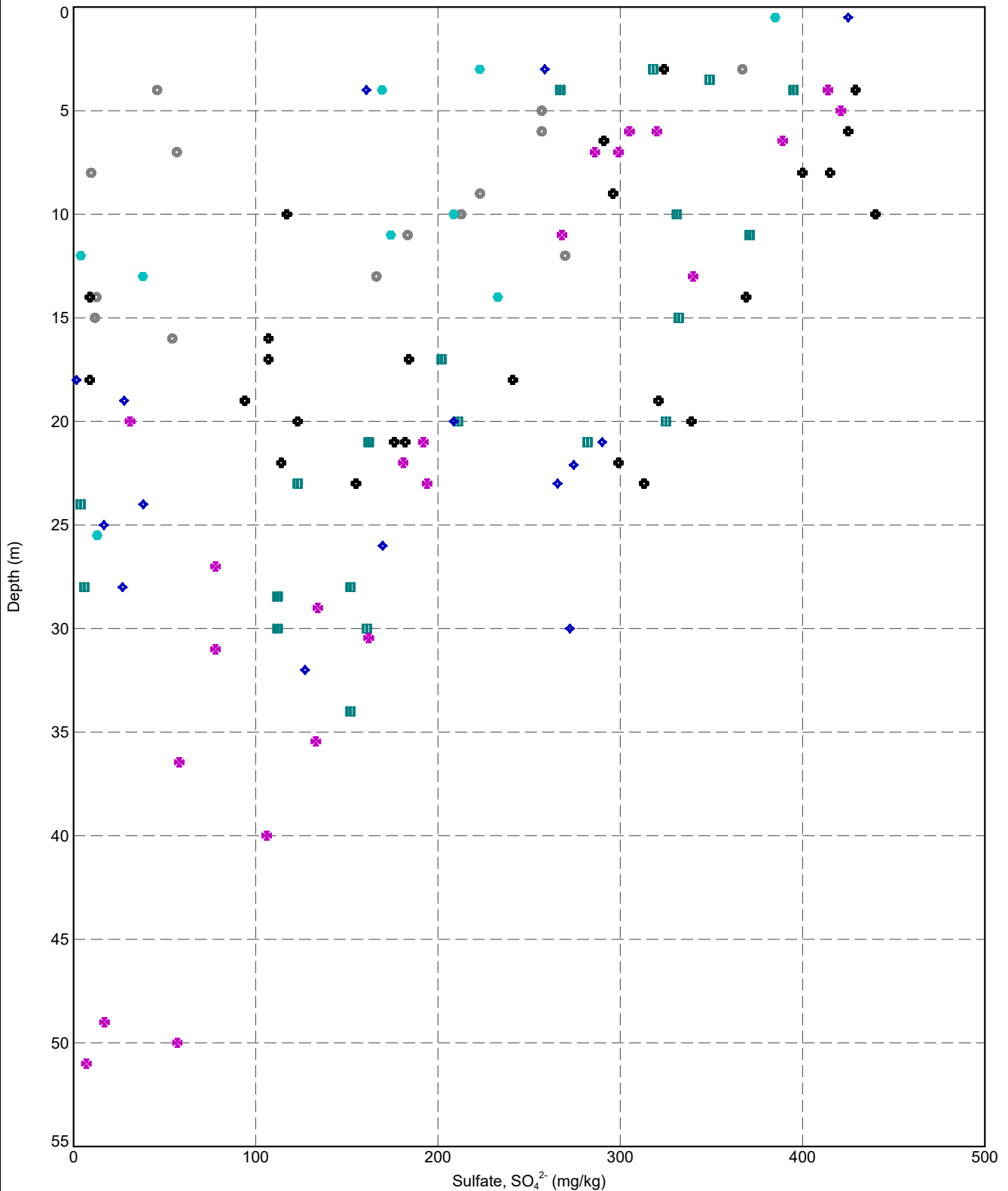
- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- F1 - Alluvial soil (Granular)
- F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- △ O(A) - Old Alluvium (Unweathered)
- ⊗ O(B) - Old Alluvium (Partially weathered)
- ⊕ O(C) - Old Alluvium (Distinctly weathered)
- G(VI) - Granite (rocks & associated soils) Residua...
- ✱ G(IV) - Granite (rocks & associated soils) Highly ...
- G(III) - Granite (rocks & associated soils) Modera...
- G(II) - Granite (rocks & associated soils) Slightl...



TITLE
Datgel
Engineer 1
Somewhere, World
Construction Project
Resistivity versus Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	125

D:\P5.03.2\LIB\GLOB\Graph\A\CH\SULFATE VS DEPTH BY PLOT.DGDTP.5.03.2.GPJ <<DrawingFile>> 9/9/2020 16:41 10.01.00.11 Datgel Lab and In Situ Test - DGD | Lib: DGDTP.5.03.2.2020-09-08 Pj: DGDTP.DLST.5.03.1.2020-09-05



- PointID Legend
- ST/1090A
 - ST/1090B/PRM
 - ⊕ ST/1149A
 - ◆ ST/1149B/VST_PZW
 - ✱ ST/1162A/PZW
 - ST/1162B/VST_PZW

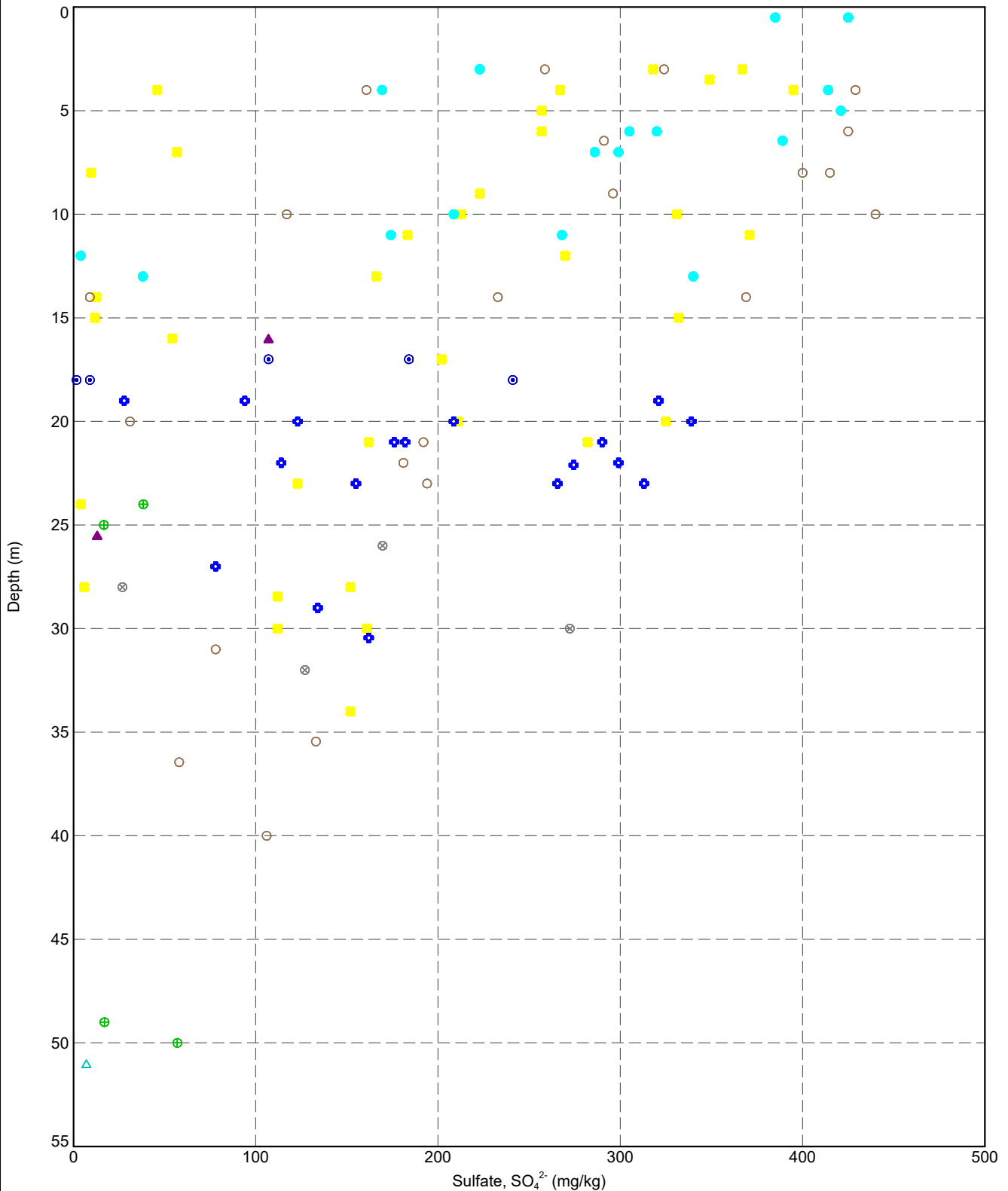


TITLE

Datgel
Engineer 1
Somewhere, World
Construction Project
Sulfate versus Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	126

DGD1-P.5.03.1.LIB.GLB_Graph_A.L.CH.SULFATE_VS_DEPTH_BY_UNIT_DGD1-P.5.03.2.GPJ -<DrawingFiles> 9/9/2020 16:41 10.01.00.11_Datgel Lab and In Situ Tool - DGD | Lib: DGD1-P.5.03.2_2020-09-08 Proj: DGD1-DLST 5.03.1.2020-09-05



Geology Unit Legend

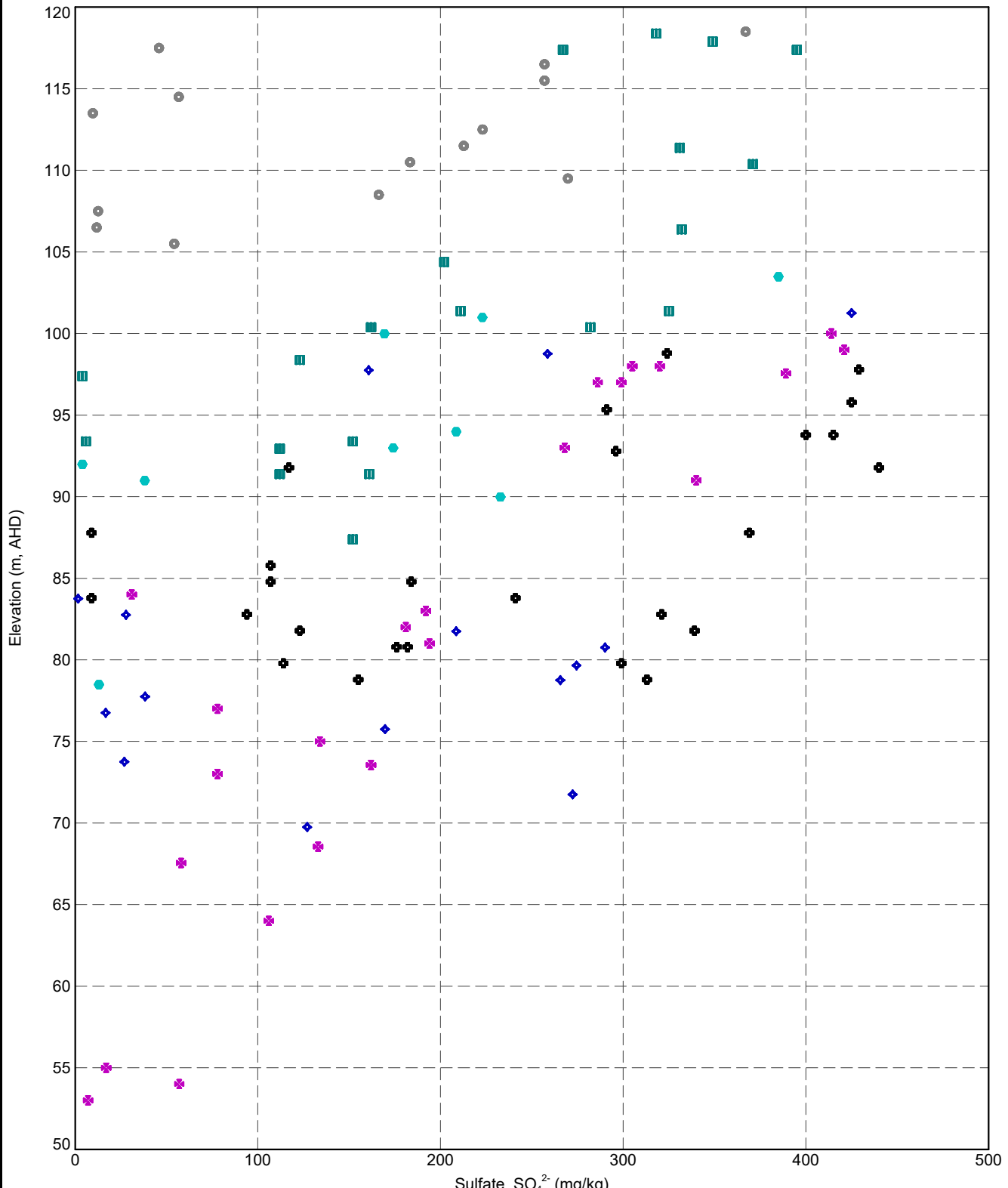
- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- F1 - Alluvial soil (Granular)
- ⊕ F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- △ O(A) - Old Alluvium (Unweathered)
- ⊗ O(B) - Old Alluvium (Partially weathered)
- ⊕ O(C) - Old Alluvium (Distinctly weathered)
- G(V) - Granite (rocks & associated soils) Residua...



TITLE
Datgel
Engineer 1
Somewhere, World
Construction Project
Sulfate versus Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	127

DGD1-P.5.03.2.LIB.GLB_Corrupt_A.L.CH.SULFATE.VS.RLBY.PTID.DGD1-P.5.03.2.GPJ -> DrawingFile -> 9/9/2020 16:41 10.01.0011 Datgel Lab and In Situ Tool - DGD1.LIB.DGD1-P.5.03.2.2020-09-09.Pjt.DGD1-DUST.5.03.1.2020-09-05



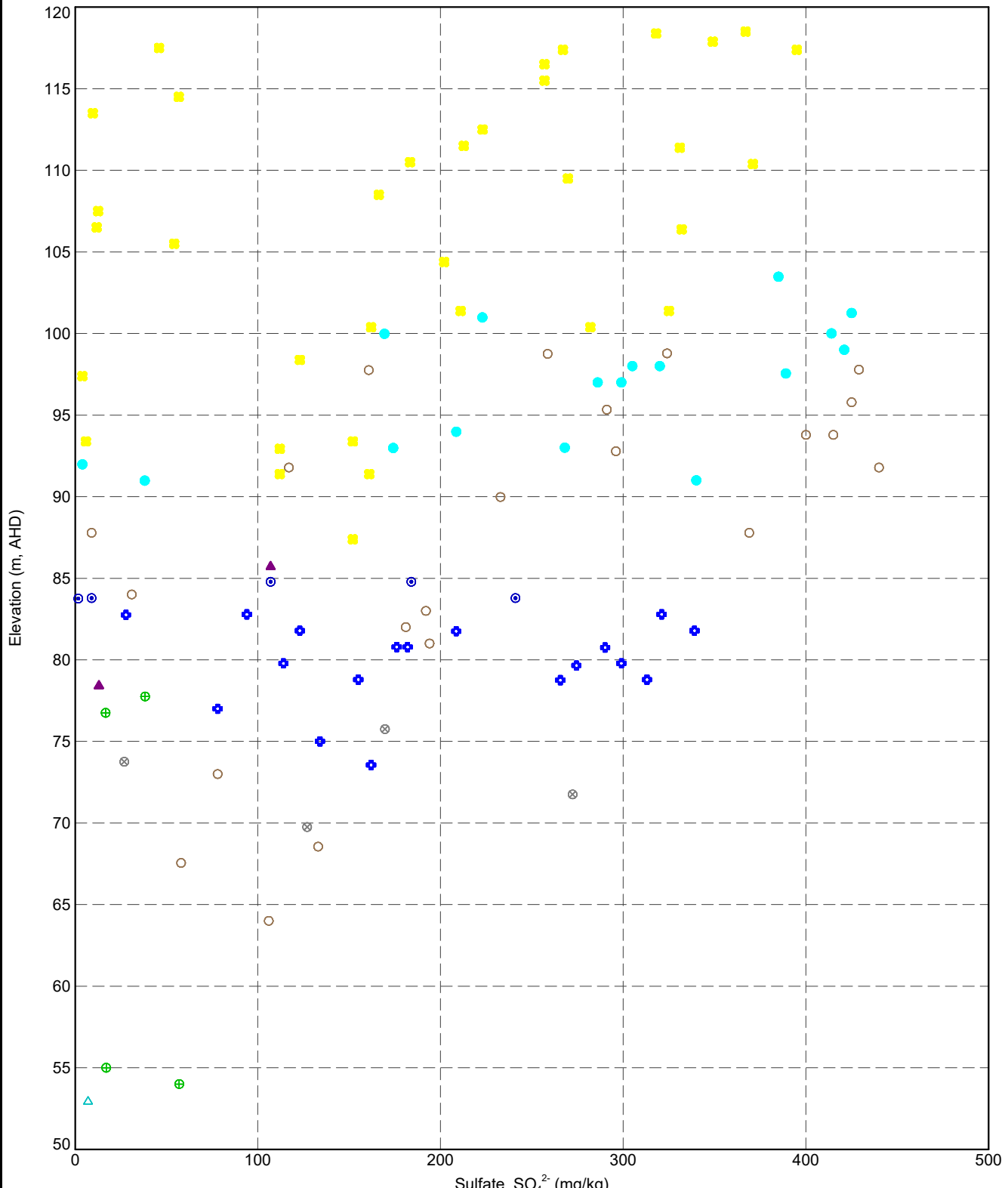
- PointID Legend**
- ST/1090A
 - ST/1090B/PRM
 - ⊕ ST/1149A
 - ◆ ST/1149B/VST_PZW
 - ✱ ST/1162A/PZW
 - ST/1162B/VST_PZW



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Sulfate versus Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	128

DGD1-P.5.03.1.GLB Graph A L CH SULFATE VS RL BY UNIT DGD1-P.5.03.1.GPJ -> Drawing File -> 9/9/2020 16:41 10.01.00.11 Datgel Lab and in Situ Tool - DGD [Lib: DGD1-P.5.03.1.2020-09-09.Pjt; DGD1-GLB-ST.5.03.1.2020-09-05



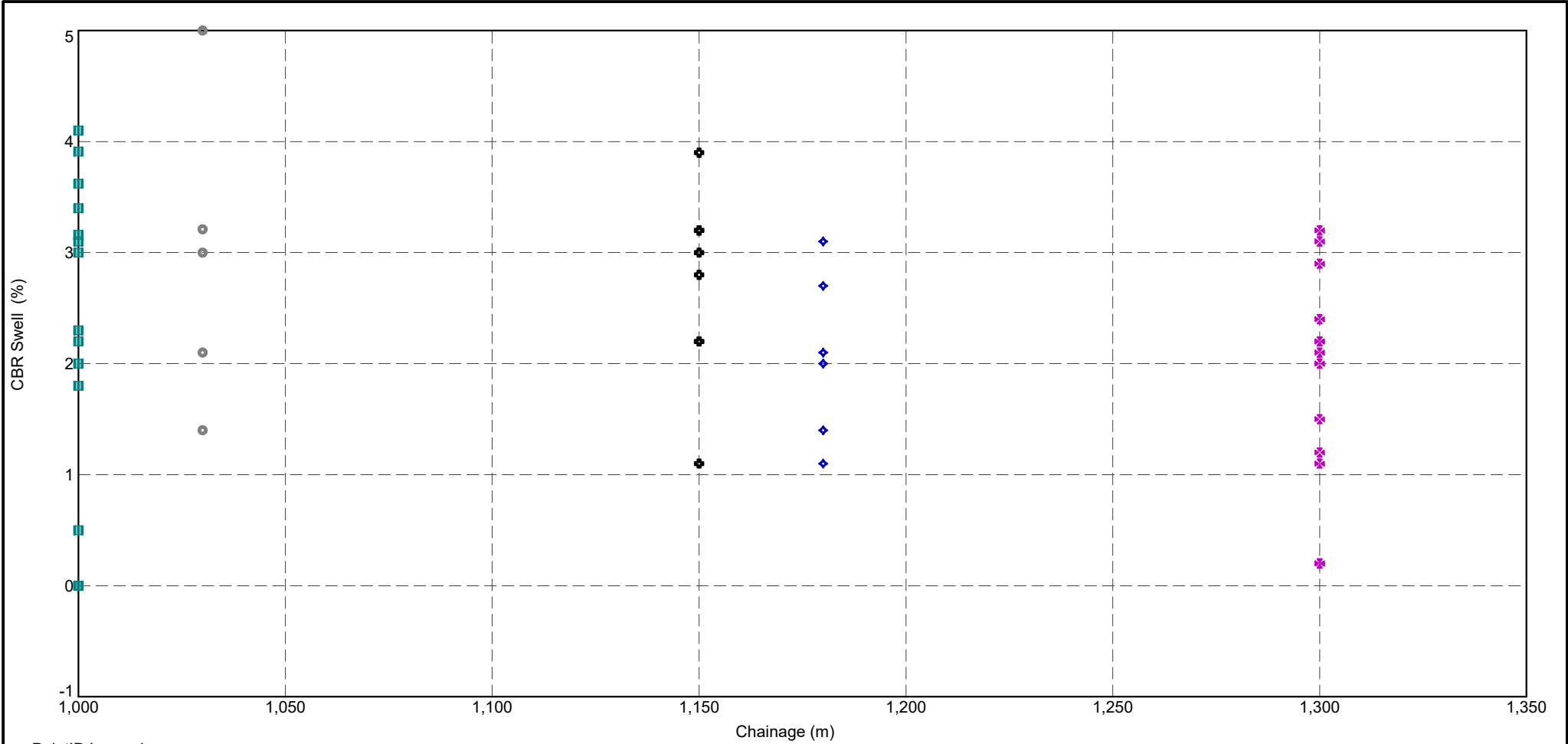
Geology Unit Legend

- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- F1 - Alluvial soil (Granular)
- ⊕ F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- △ O(A) - Old Alluvium (Unweathered)
- ⊗ O(B) - Old Alluvium (Partially weathered)
- ⊕ O(C) - Old Alluvium (Distinctly weathered)
- G(VI) - Granite (rocks & associated soils) Residua...




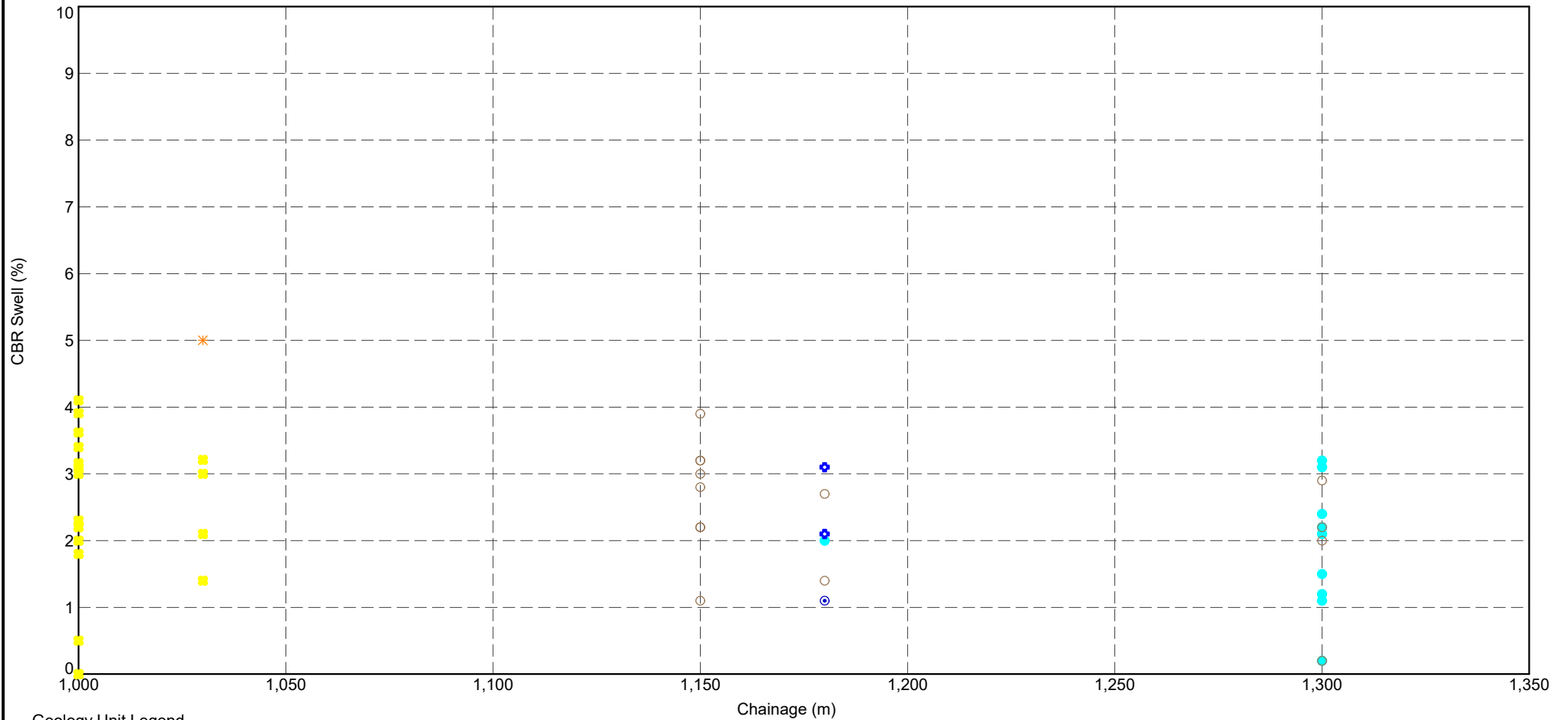
TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Sulfate versus Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	129



PointID Legend
 ■ ST/1090A
 ● ST/1090B/PRM
 ⊕ ST/1149A
 ◆ ST/1149B/VST_PZW
 ✕ ST/1162A/PZW

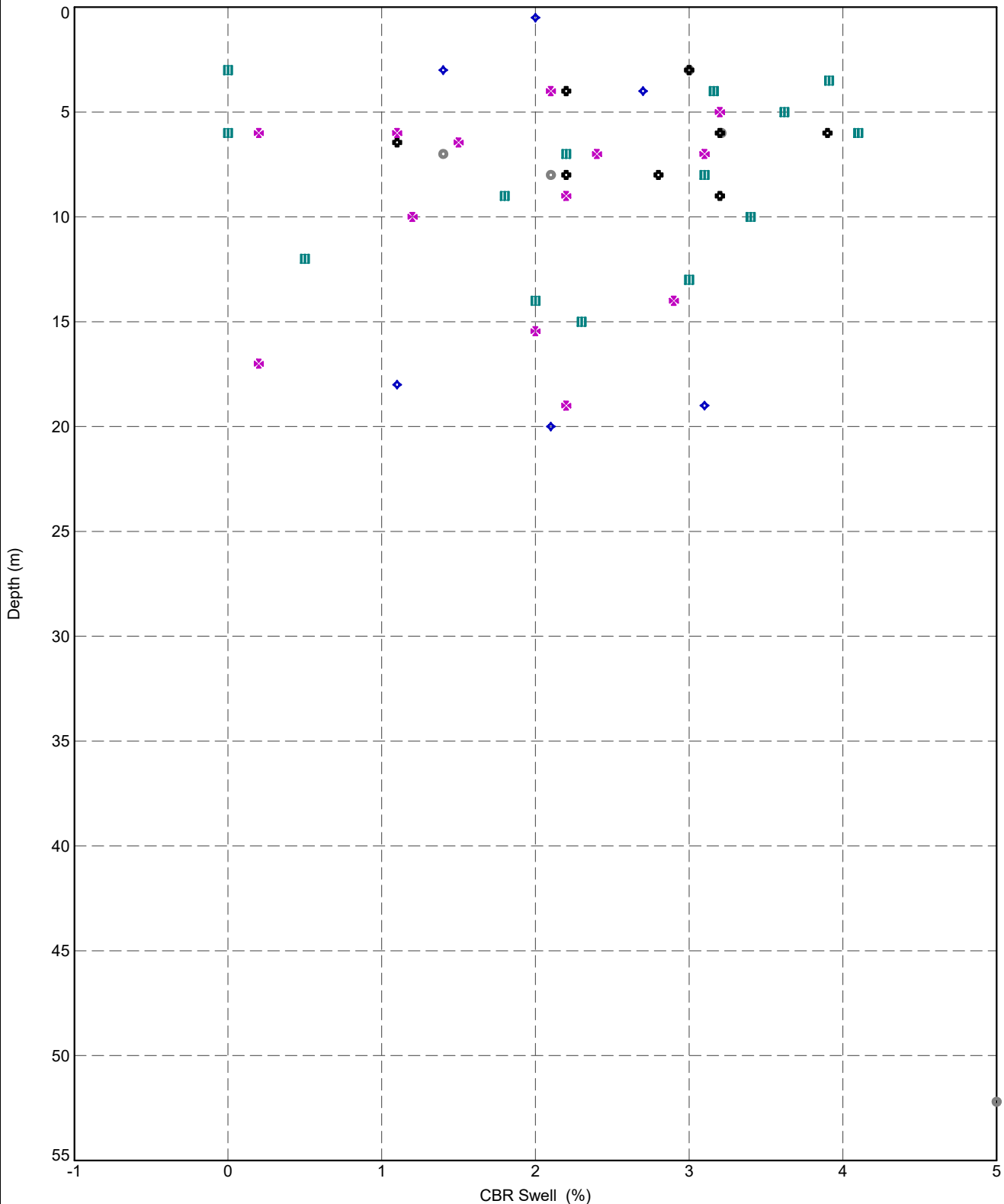
	TITLE	Datgel Engineer 1 Somewhere, World Construction Project CBR Swell versus Chainage		DRAWN	PMW	DATE	9/9/2020
				CHECKED		DATE	9/9/2020
				SCALE	Not To Scale		A4
				PROJECT No	5.03.1	FIGURE No	130



- Geology Unit Legend**
- FILL - BACKFILL
 - F1 - Alluvial soil (Granular)
 - F2 - Alluvial soil (Non-granular)
 - M - Marine Clay
 - G(VI) - Granite (rocks & associated soils) Residua...
 - * G(IV) - Granite (rocks & associated soils) Highly ...

	TITLE	Datgel Engineer 1 Somewhere, World Construction Project CBR Swell versus Chainage		DRAWN	PMW	DATE	9/9/2020
				CHECKED		DATE	9/9/2020
				SCALE	Not To Scale		A4
				PROJECT No	5.03.1	FIGURE No	131

DGD1-P.5.03.2.LIB.GLB.Graph A.L.CE.CBR SWELL.VS DEPTH BY PTID DGD1-P.5.03.2.GPJ <DrawingFile> 9/9/2020 16:41 10.01.00.1.1.Datgel Lab and In Situ Tool-DGD | Lib.DGD1-P.5.03.2.2020-09-08.Fix.DGD1-DIST.5.03.1.2020-09-05



- PointID Legend
- ST/1090A
 - ST/1090B/PRM
 - ⊕ ST/1149A
 - ◆ ST/1149B/VST_PZW
 - ⊗ ST/1162A/PZW

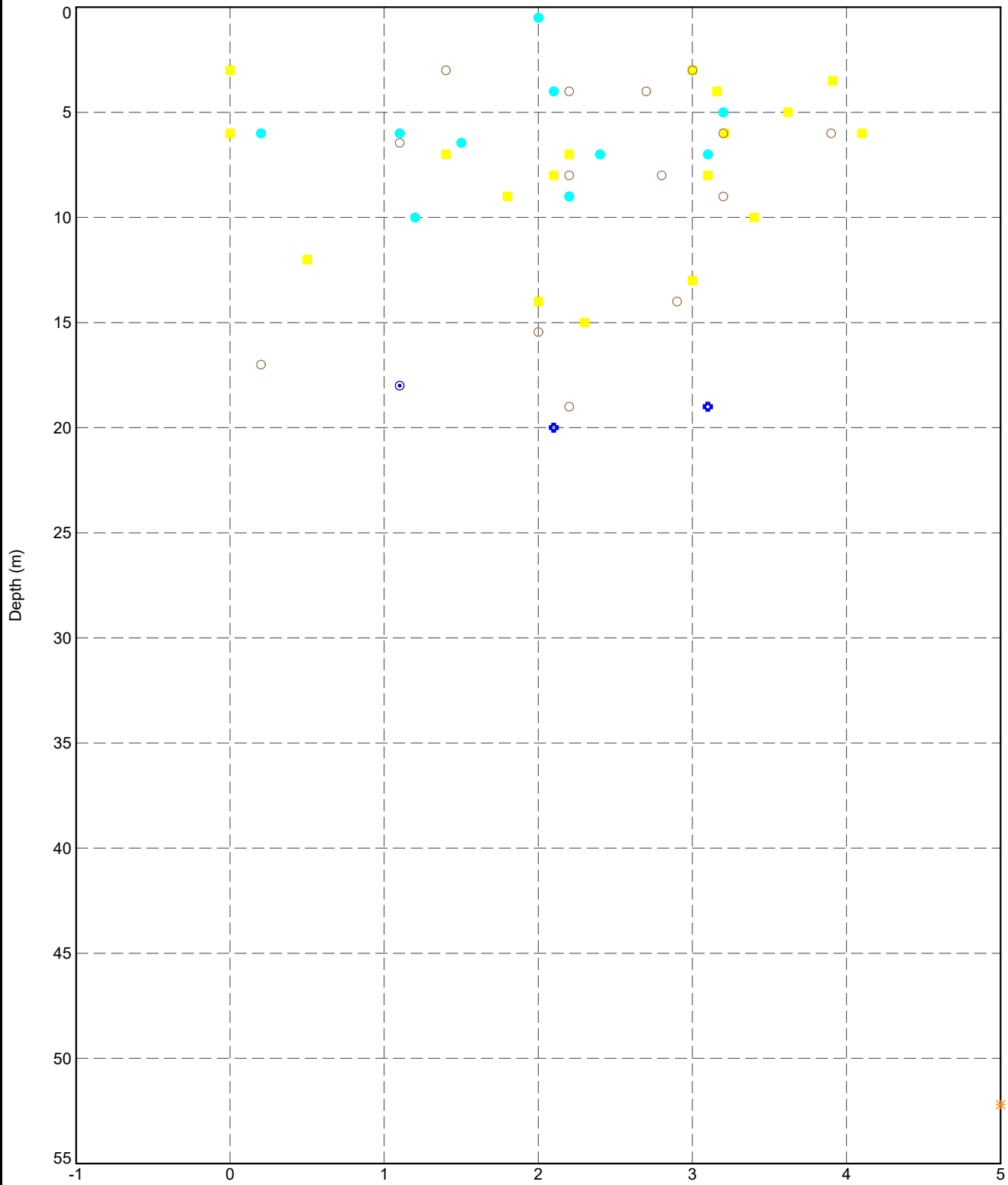


TITLE


Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 CBR Swell versus Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	132

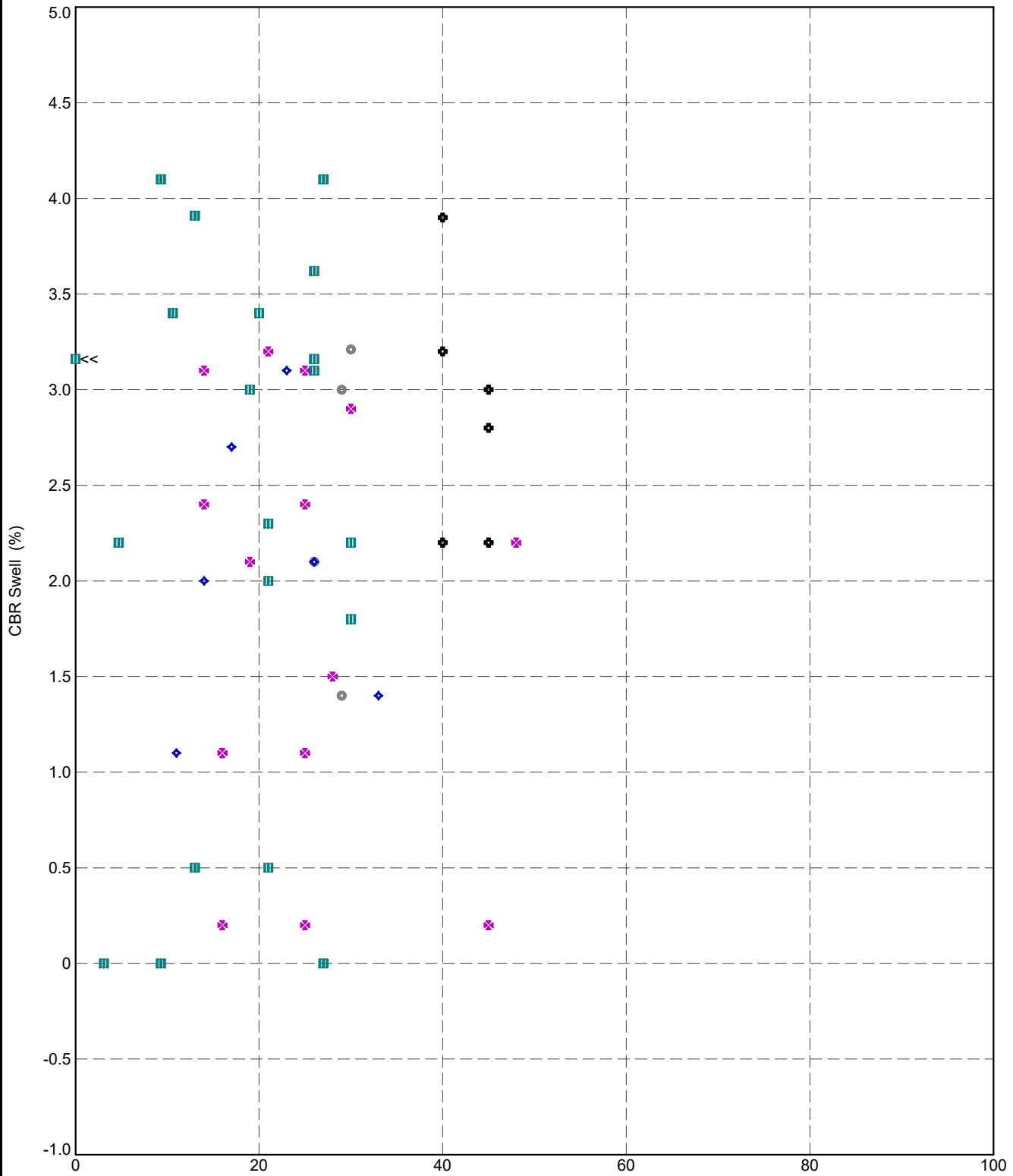
D:\DOT-P-5.03.2\020\09\08\Fig_DSGDT-DIST 5.03.1_2020-09-05.DWG



- Geology Unit Legend**
- FILL - BACKFILL
 - F1 - Alluvial soil (Granular)
 - F2 - Alluvial soil (Non-granular)
 - M - Marine Clay
 - G(VI) - Granite (rocks & associated soils) Residua...
 - ✱ G(IV) - Granite (rocks & associated soils) Highly ...

	TITLE Datgel Engineer 1 Somewhere, World Construction Project CBR Swell versus Depth	DRAWN PMW	DATE 9/9/2020	
		CHECKED	DATE 9/9/2020	
		SCALE Not To Scale		A4
		PROJECT No 5.03.1	FIGURE No 133	

DGD1-P.5.03.1.LCB.CBR SWELL_VS.PIBY.PTID.DGD1-P.5.03.2.GPJ -<DrawingFile> 9/9/2020 16:41 10:01:00.11 Datgel Lab and In Situ Tool - DGD | Lib.DGD1-P.5.03.2.2020-09-08 Proj.DGD1-DIST.5.03.1.2020-09-05



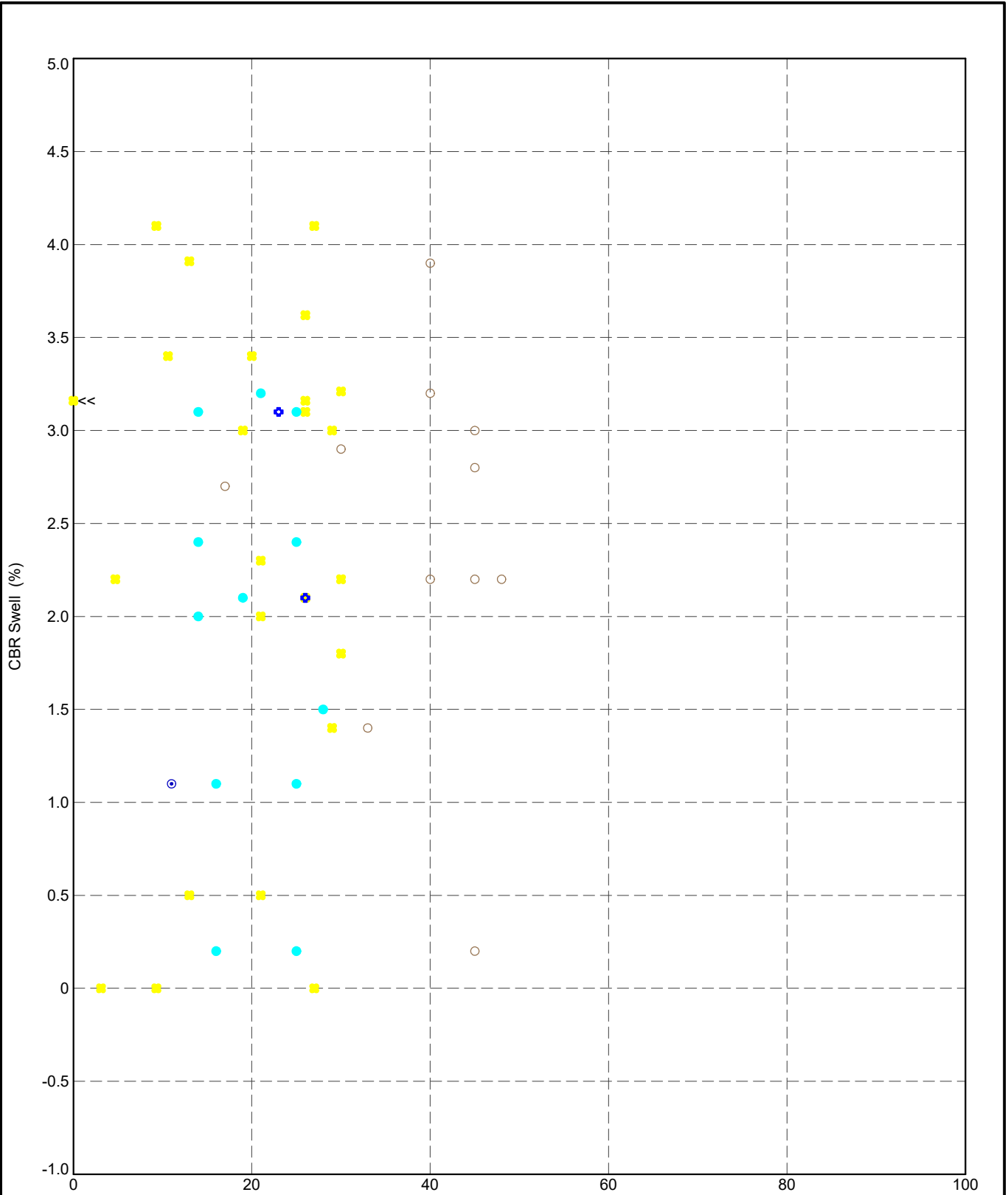
PointID Legend
■ ST/1090A
● ST/1090B/PRM
⊕ ST/1149A
◆ ST/1149B/VST_PZW
✖ ST/1162A/PZW




TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 CBR Swell versus Plasticity Index

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	134

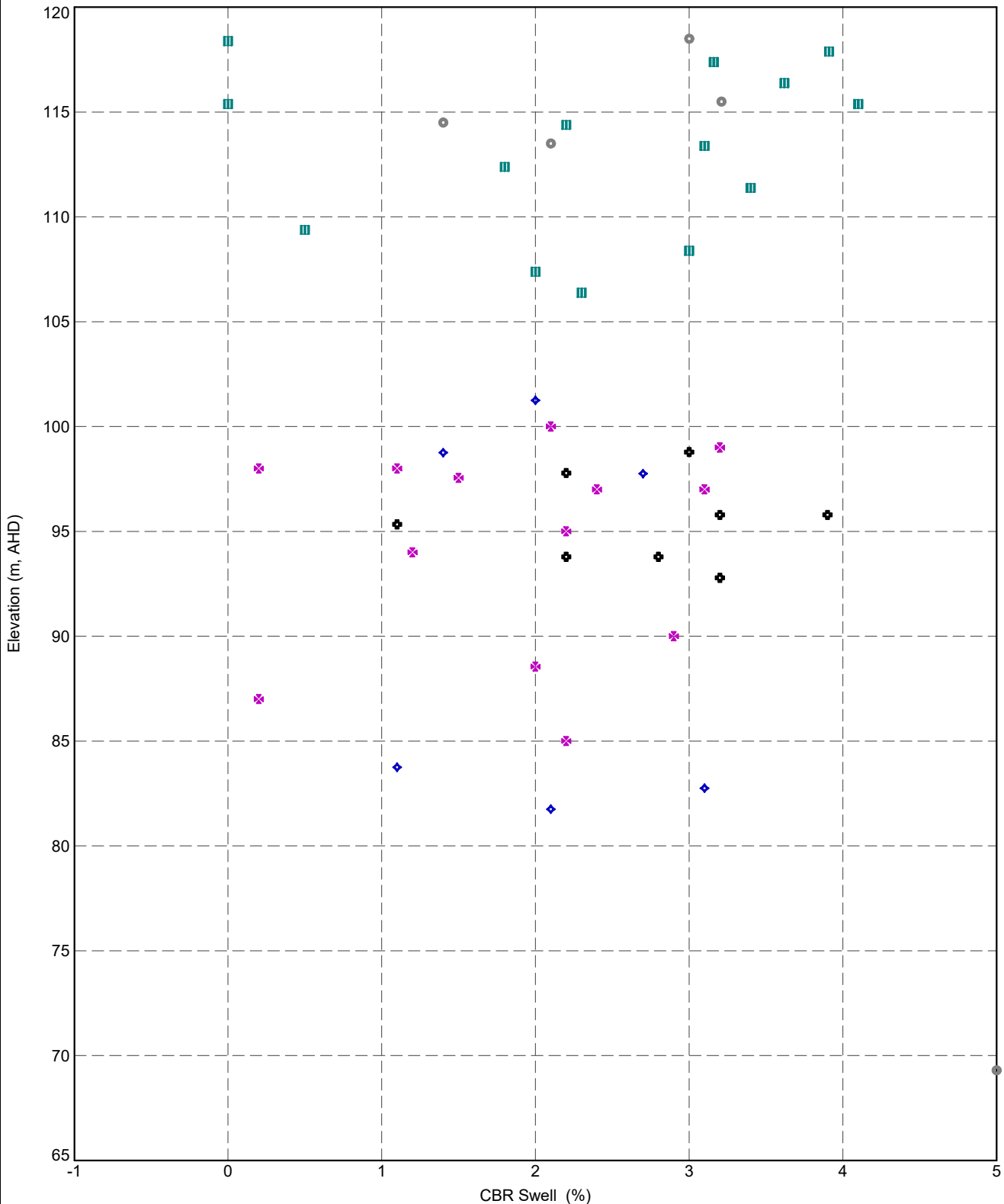
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Geology Unit Legend
 ● FILL - BACKFILL
 ⊙ F1 - Alluvial soil (Granular)
 ⊕ F2 - Alluvial soil (Non-granular)
 ○ M - Marine Clay
 ■ G(VI) - Granite (rocks & associated soils) Residua...
 * G(IV) - Granite (rocks & associated soils) Highly ...

 Datgel DATA SOLUTIONS Geotechnics • Geoenvironment • Laboratory	TITLE Datgel Engineer 1 Somewhere, World Construction Project CBR Swell versus Plasticity Index	DRAWN PMW	DATE 9/9/2020	
	CHECKED	DATE 9/9/2020	SCALE Not To Scale	A4
	PROJECT No 5.03.1	FIGURE No 135		
	Geotechnics • Geoenvironment • Laboratory			

DGDIT-P.5.03.2.LIB.GLB Graph A LCB CBR SWELL_VS RL BY PTID DGDIT-P.5.03.2.GPJ <<DrawingFile>> 9/9/2020 16:42 10.01.00.11 Datgel Lab and In Situ Tool - DGD [Lib: DGDIT-P.5.03.2.2020-08-PRJ; DGDIT-DLST.5.03.1.2020-09-05]



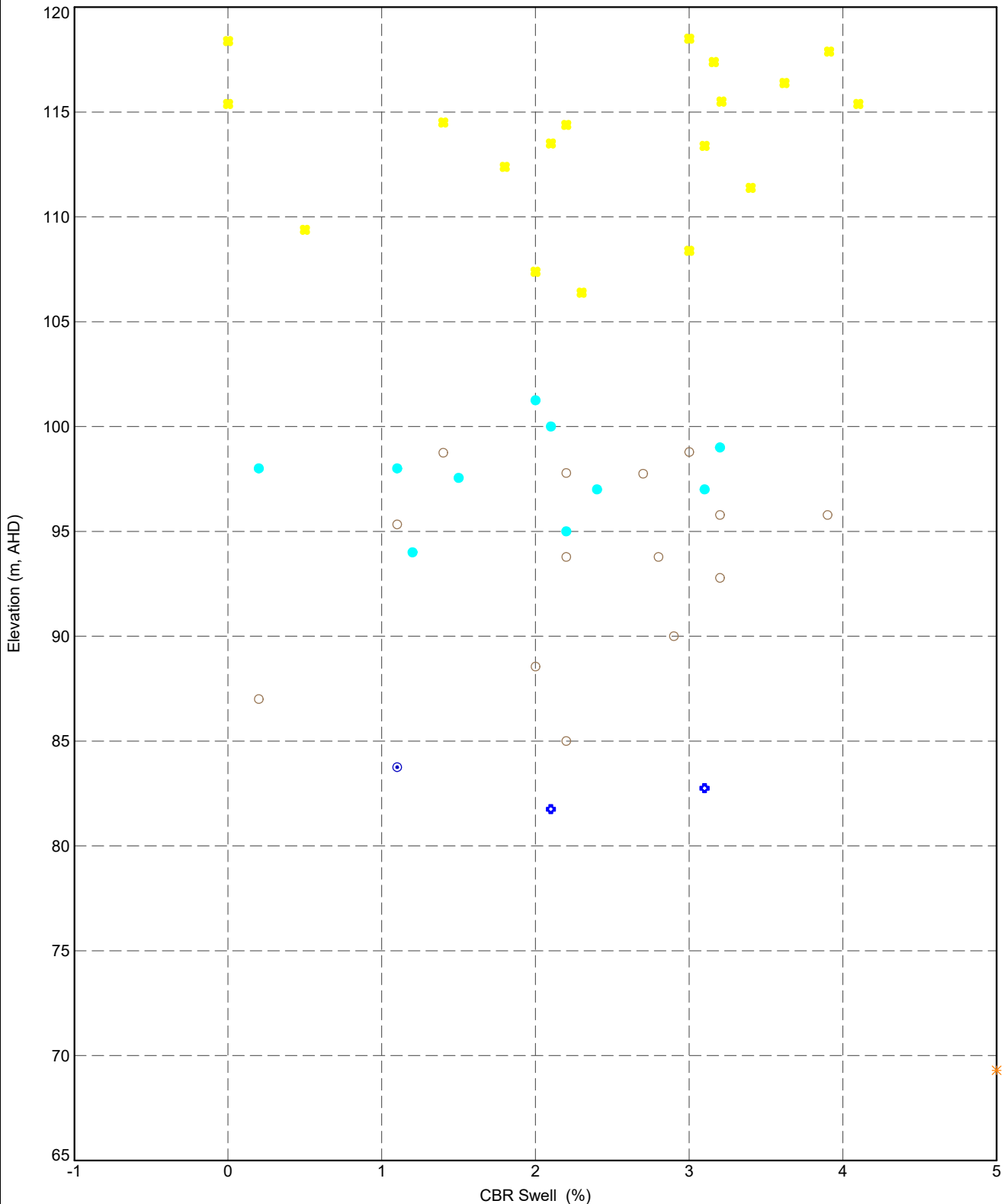
PointID Legend
 ■ ST/1090A
 ● ST/1090B/PRM
 ⊕ ST/1149A
 ◆ ST/1149B/VST_PZW
 ✕ ST/1162A/PZW



TITLE
Datgel
Engineer 1
 Somewhere, World
 Construction Project
CBR Swell versus Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	136

DGD1-P.5.03.2.LIB.GLB Graph A.L.CB.CBR SWELL.VS.RL.BY UNIT DGD1-P.5.03.2.GPJ --DrawingFile--> 9/9/2020 16:42 10.01.00.11 Datgel Lab and In Situ Tool - DGD1 Lib: DGD1-P.5.03.2.2020-09-08 Proj: DGD1-DLST 5.03.1 2020-09-05



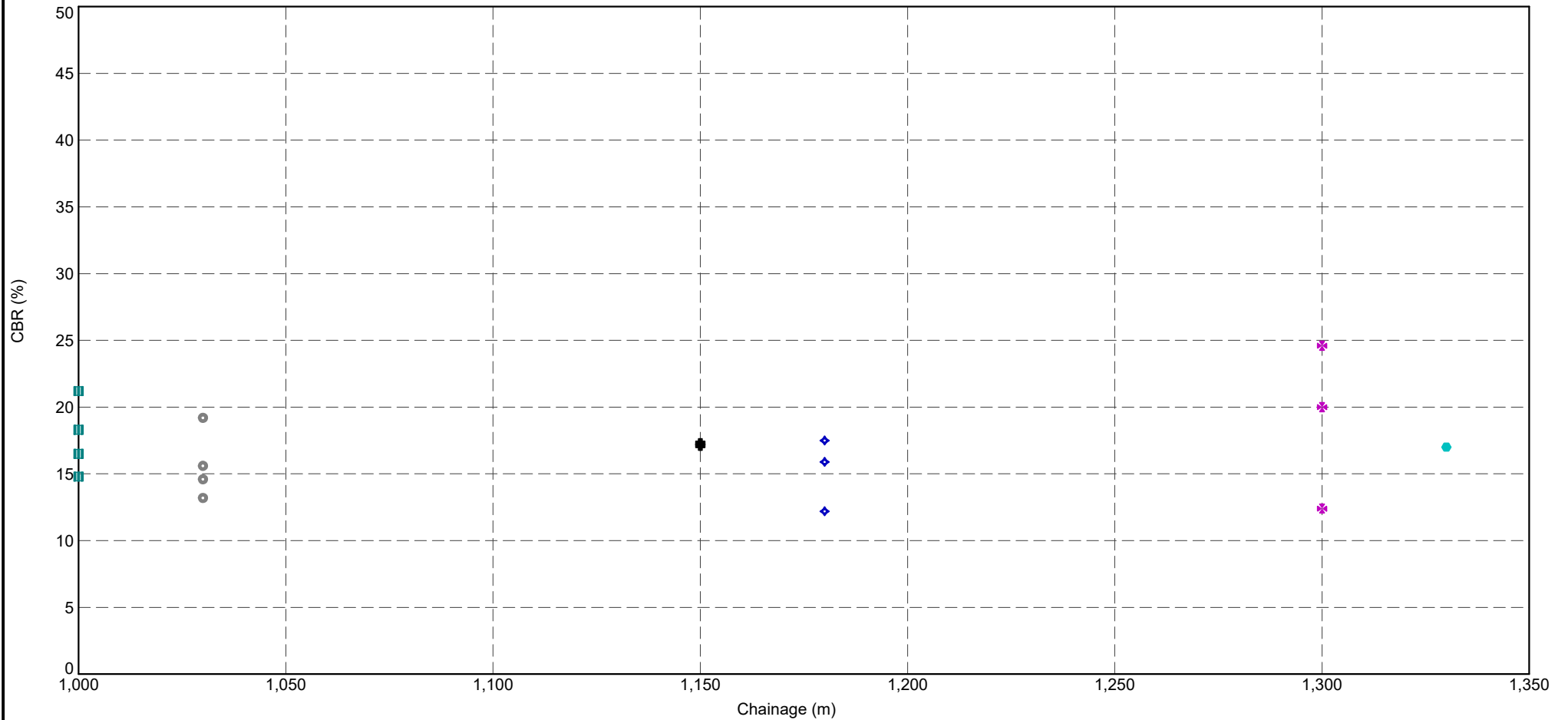
Geology Unit Legend

- FILL - BACKFILL
- F1 - Alluvial soil (Granular)
- F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- G(VI) - Granite (rocks & associated soils) Residua...
- ✱ G(IV) - Granite (rocks & associated soils) Highly ...




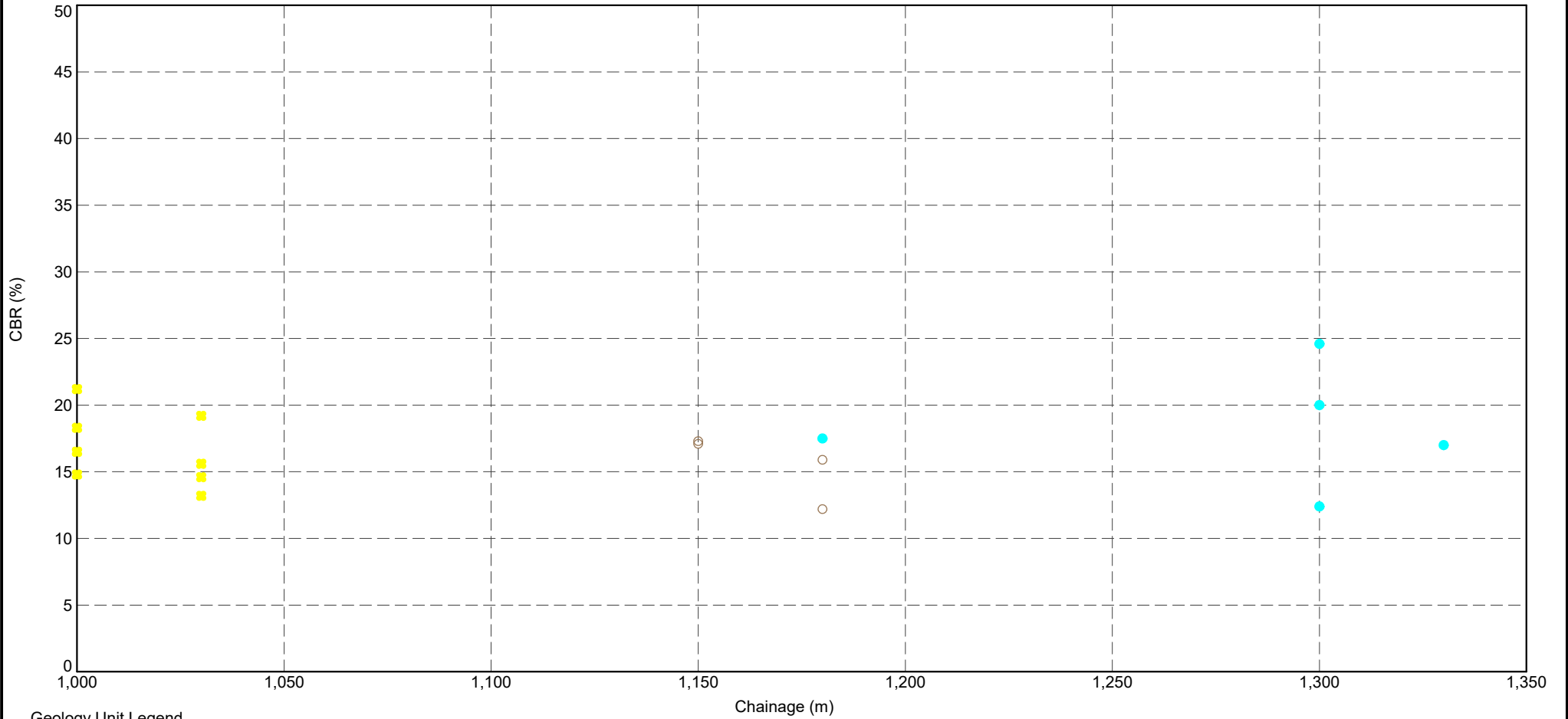
TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
CBR Swell versus Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	137



- PointID Legend
- ST/1090A
 - ST/1090B/PRM
 - ST/1149A
 - ◆ ST/1149B/VST_PZW
 - ✱ ST/1162A/PZW
 - ST/1162B/VST_PZW

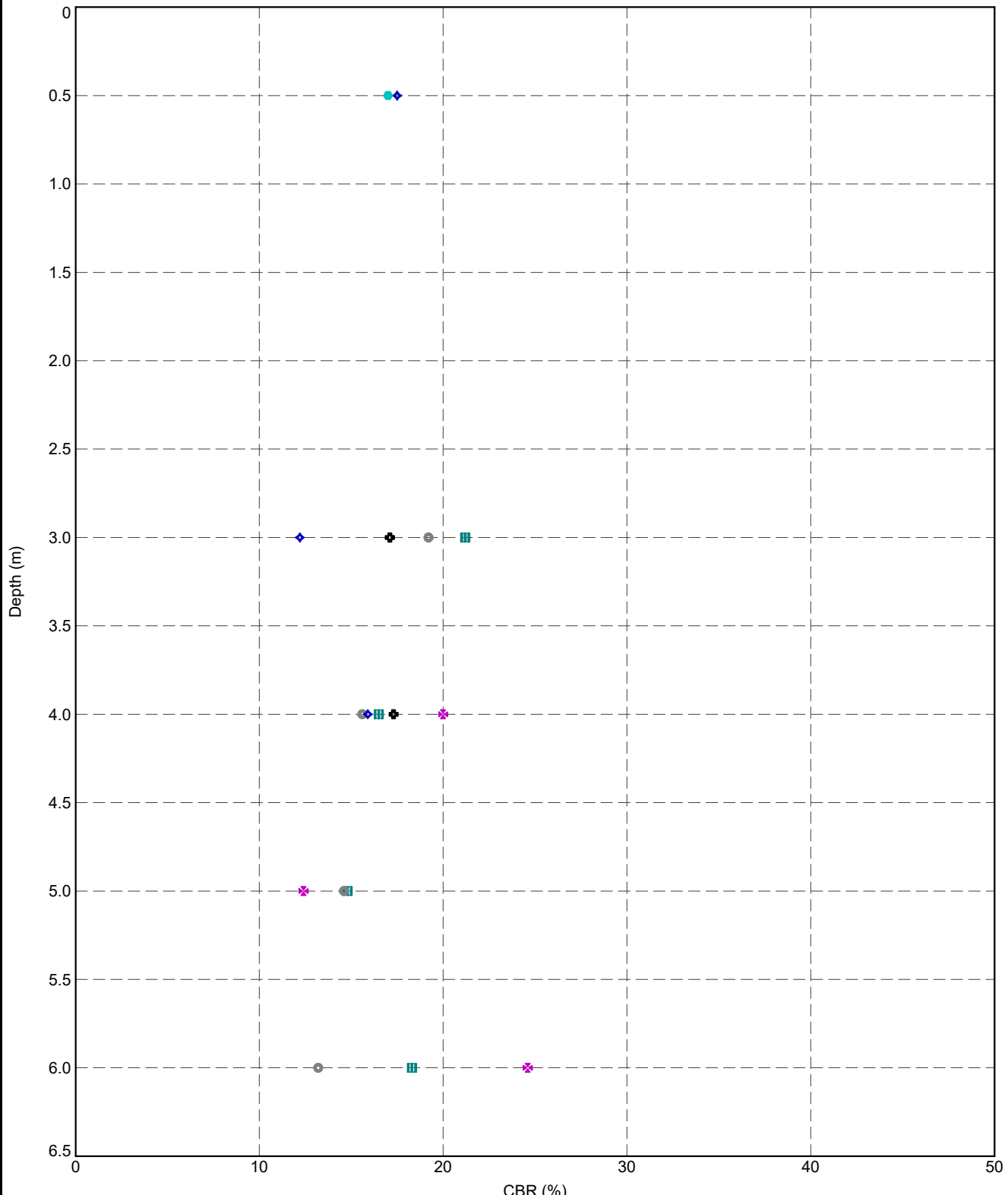
 Datgel DATA SOLUTIONS Geotechnics • Geoenvironment • Laboratory	TITLE	Datgel Engineer 1 Somewhere, World Construction Project CBR versus Chainage		DRAWN PMW	DATE 9/9/2020
				CHECKED	DATE 9/9/2020
				SCALE Not To Scale	A4
				PROJECT No 5.03.1	FIGURE No 138



Geology Unit Legend
 ● FILL - BACKFILL
 ○ M - Marine Clay
 ■ G(VI) - Granite (rocks & associated soils) Residua...

	TITLE Datgel Engineer 1 Somewhere, World Construction Project CBR versus Chainage	DRAWN PMW	DATE 9/9/2020
		CHECKED	DATE 9/9/2020
		SCALE Not To Scale	A4
		PROJECT No 5.03.1	FIGURE No 139

DGD1-P.5.03.1.LIB.GLB Graph A.LCB.CBR.VS.DEPTH.BY.PTID.DGD1-P.5.03.2.2020.09.08.Plt.DGD1-DLST.5.03.1.2020-09-05



- PointID Legend**
- ST/1090A
 - ST/1090B/PRM
 - ⊕ ST/1149A
 - ◆ ST/1149B/VST_PZW
 - ✱ ST/1162A/PZW
 - ST/1162B/VST_PZW

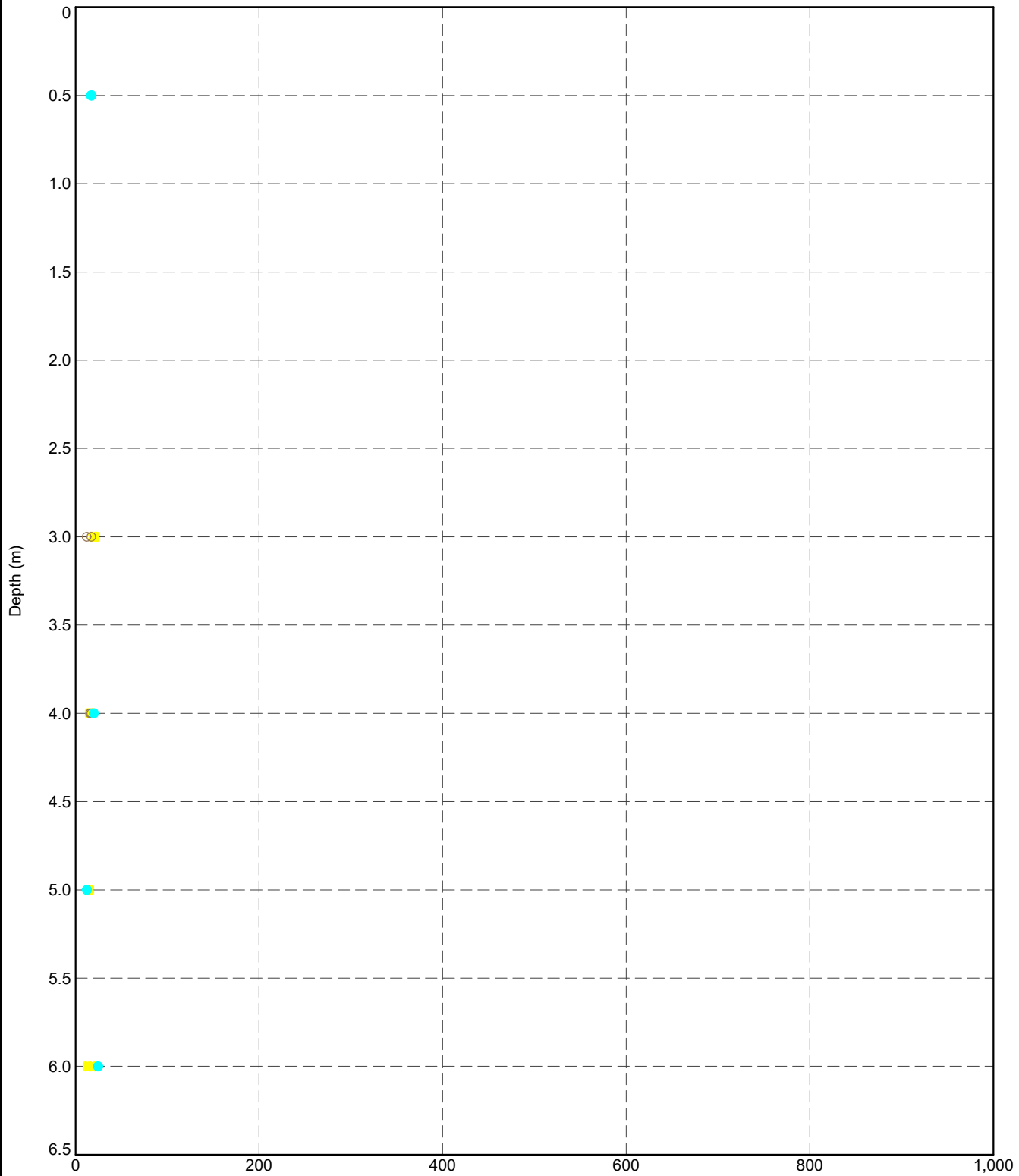


TITLE

Datgel
Engineer 1
Somewhere, World
Construction Project
CBR versus Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	140

DGD1-P.5.03.2.LIB.GLB Graph A.L.CB.CBR.VS.DEPTH.BY UNIT DGD1-P.5.03.2.GPJ <-DrawingFile> 9/9/2020 16:42 10.01.00.11 Datgel Lab and In Situ Tool - DGD1 (Lib: DGD1-P.5.03.2.2020-09-08 Proj: DGD1-DIST 5.03.1.2020-09-05)



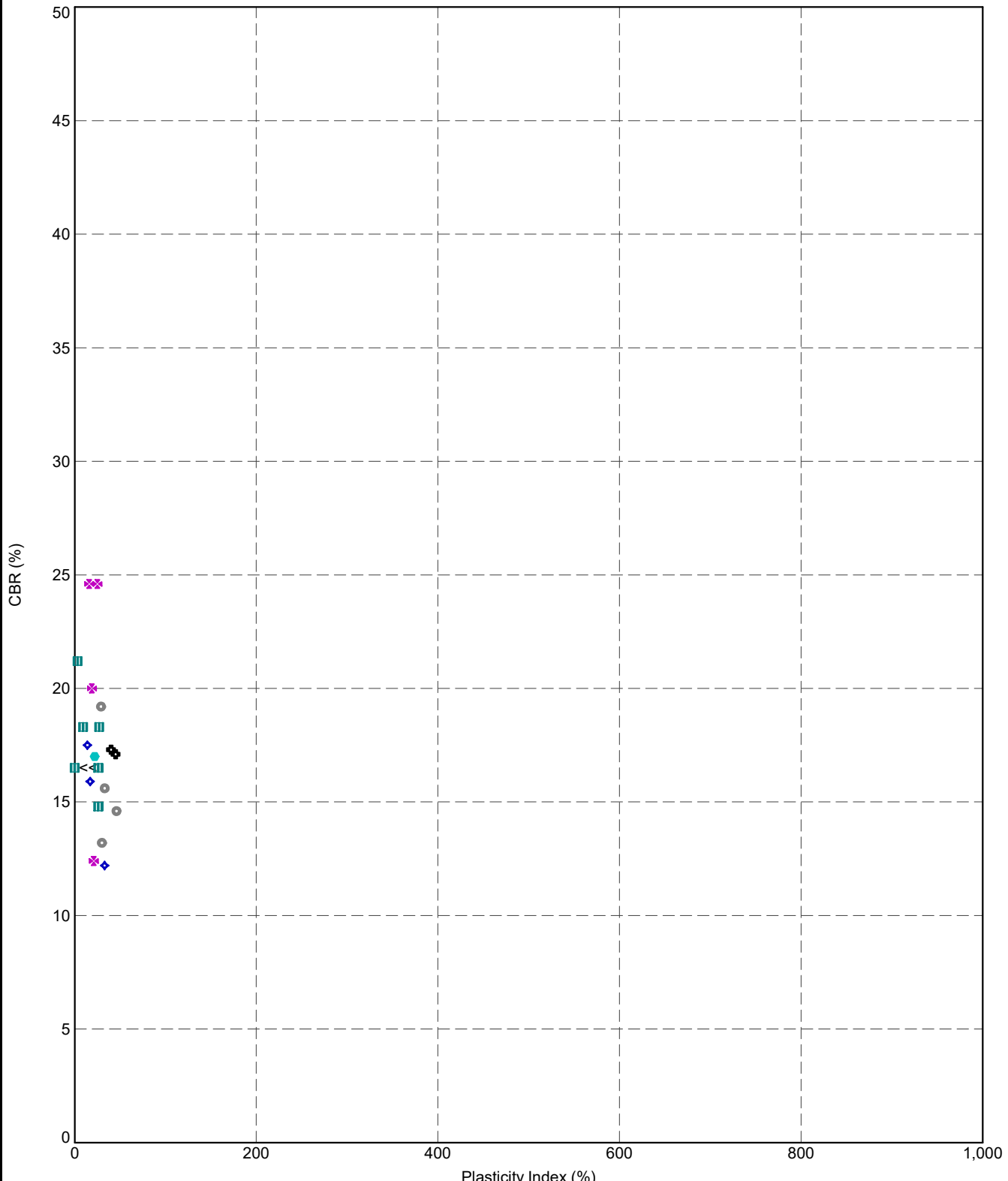
Geology Unit Legend
 ● FILL - BACKFILL
 ○ M - Marine Clay
 ■ G(VI) - Granite (rocks & associated soils) Residua...



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 CBR versus Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	141

DGD1-P.5.03.2.LIB.GLB_Graph_A.LCB.CBR.VS.PI BY:PTID_DGD1-P.5.03.2.GPJ <-<DrawingFile>> 9/9/2020 16:42:10.01.00.11_Datgel Lab and in Situ_Tool-DGD1.LIB.DGD1-P.5.03.2.2020-09-08.PI; DGD1-DLST.5.03.1.2020-09-06



- PointID Legend
- ST/1090A
 - ST/1090B/PRM
 - ◆ ST/1149A
 - ◆ ST/1149B/VST_PZW
 - ◆ ST/1162A/PZW
 - ST/1162B/VST_PZW

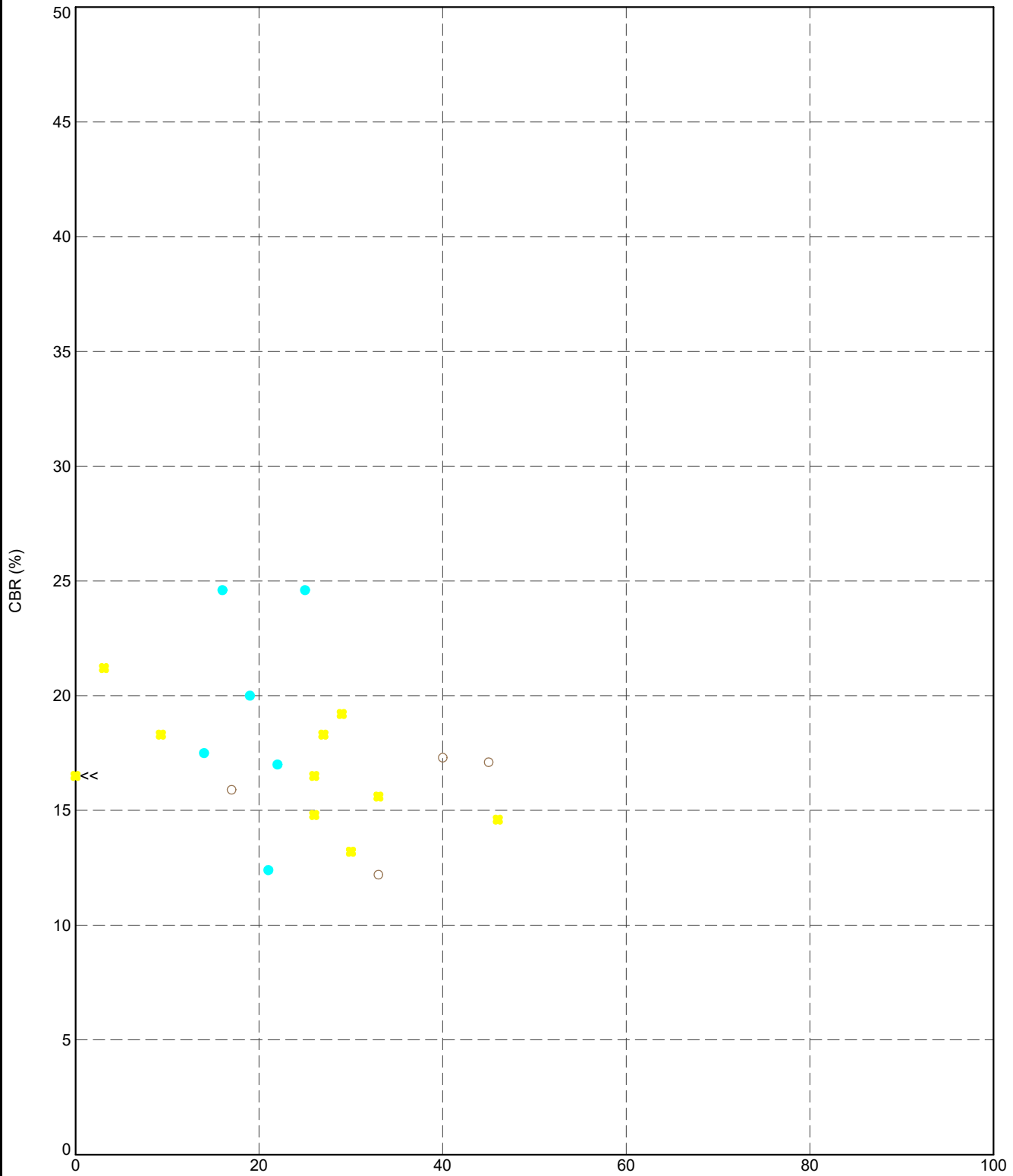


TITLE

Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 CBR versus Plasticity Index

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	142

D:\P\5.03.2\LIB\G.L.B. Graph A.L.C.F. CBR\VS P\BY UNIT DGD1-P-5.03.2.GPJ <-DrawingFile> 9/9/2020 18:42:10.01.00.1.1 Datgel Lab and In Situ Tool - DGD | Lib. DGD1-P-5.03.2.2020-09-08 Pj: DGD1-DIST 5.03.1.2020-09-05



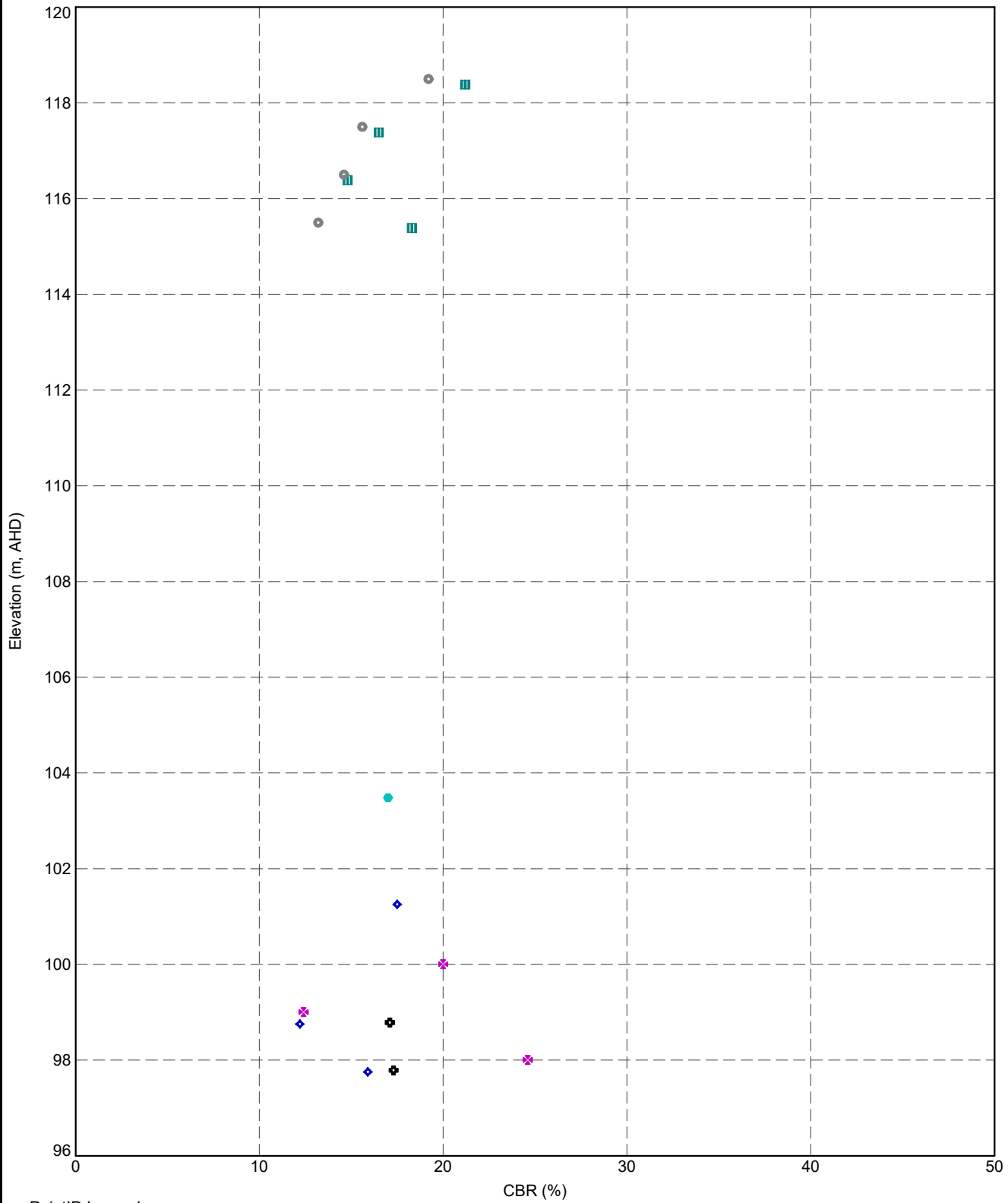
Geology Unit Legend
● FILL - BACKFILL
○ M - Marine Clay
■ G(VI) - Granite (rocks & associated soils) Residua...



TITLE
Datgel
Engineer 1
Somewhere, World
Construction Project
CBR versus Plasticity Index

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	143

D:\GDT-P\5.03.1\LIB.GLB_Graph_A\LCF.CBR\VS.RL\BYPTID.DGDT.P_5.03.2.GPJ - <DrawingFiles> 9/9/2020 16:42:10.01.00.11_Datgel Lab and In Situ Tool_DGD | Lib: DGD | P: 5.03.2_2020-09-08 Prj: DGD-DIST 5.03.1_2020-09-05



- PointID Legend**
- ST/1090A
 - ST/1090B/PRM
 - ⊕ ST/1149A
 - ◆ ST/1149B/VST_PZW
 - ⊗ ST/1162A/PZW
 - ST/1162B/VST_PZW

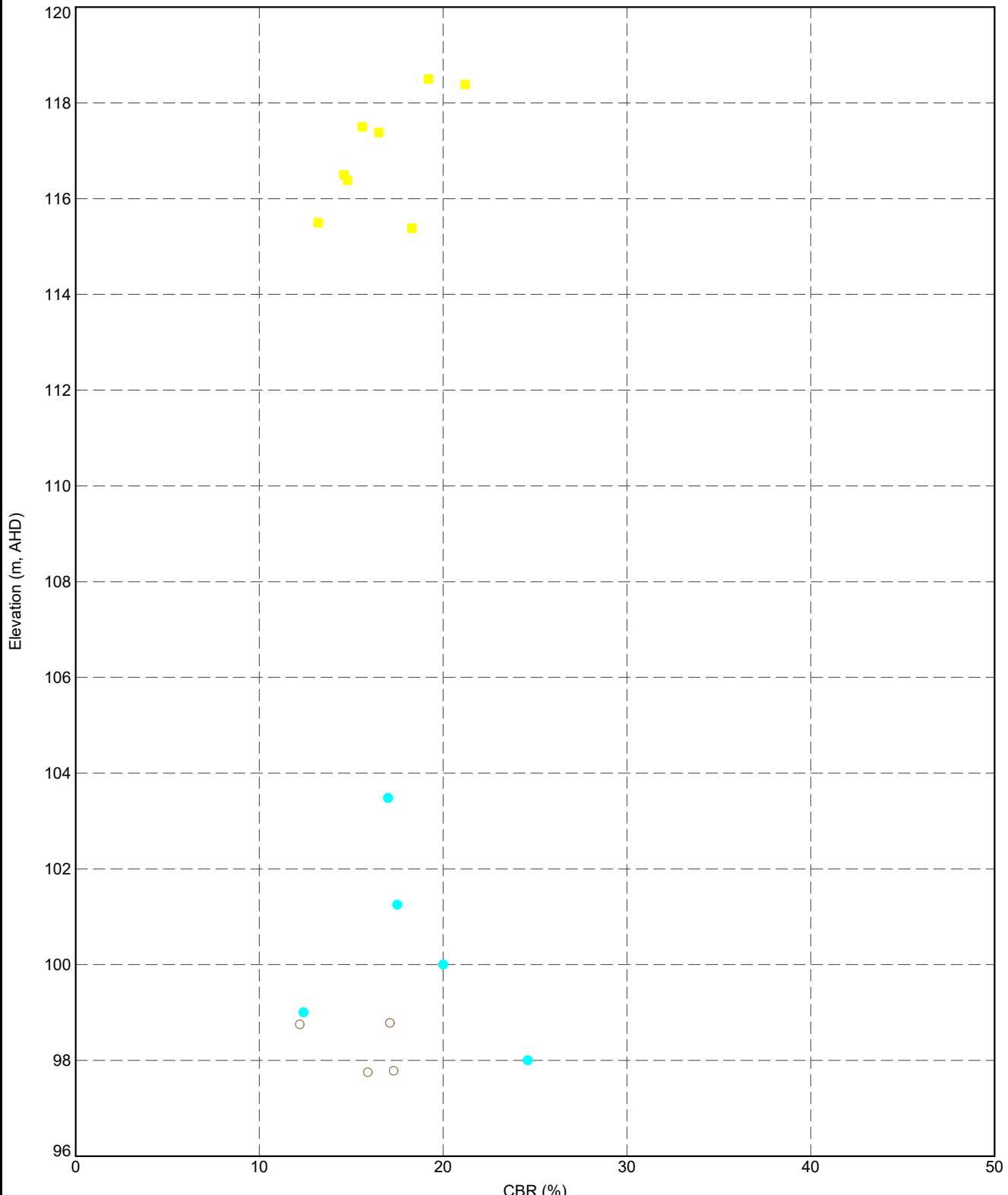


TITLE

Datgel
Engineer 1
Somewhere, World
Construction Project
CBR versus Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	144

DGD1-P.5.03.1-UB.GLB - Graph A.L.CB.CBR.VS.RL.BY.U.NIT.DGD1-P.5.03.2.GPI - <DrawingFiles> 9/9/2020 16:42:10.01.00.11.Datgel.Lab.and.H.Slu.Tool.DGD | Ubr.DGD1-P.5.03.2.2020-09-08.Pj | DGD1-DLST.5.03.1.2020-09-05



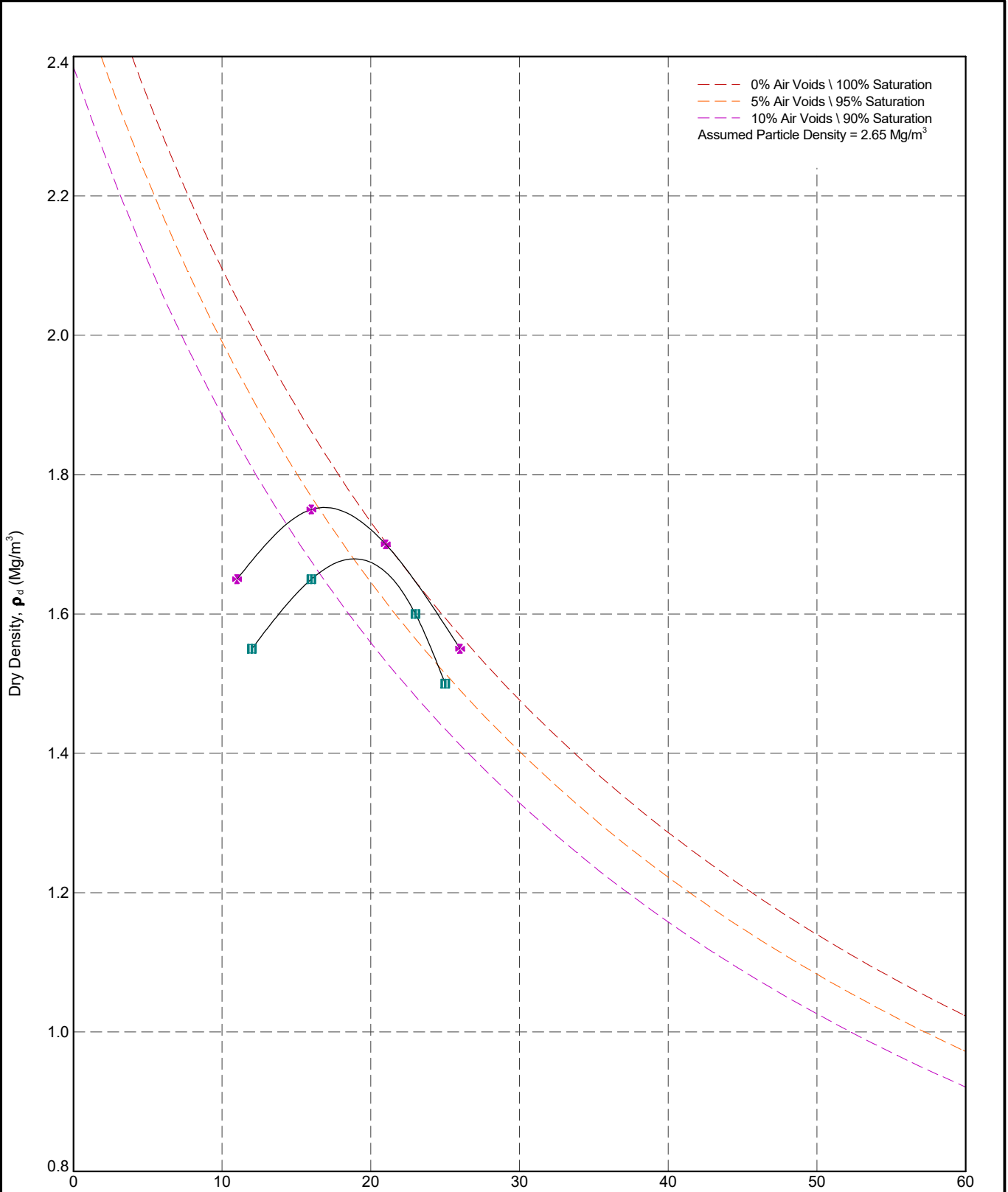
Geology Unit Legend
 ● FILL - BACKFILL
 ○ M - Marine Clay
 ■ G(VI) - Granite (rocks & associated soils) Residua...



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 CBR versus Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	145

D:\P\5.03.2\LIB\GLB_Graph_A\LCF-DD-VS-MC\BYPTID-DGDT-FP-5.03.2.GPJ <<DrawingFile>> 9/9/2020 16:42:10.01.001.1 Datgel Lab and In Situ Tool - DGD Lib - DGD-FP-5.03.2.2020-09-08 P1; DGD-FP-5.03.1.2020-09-05



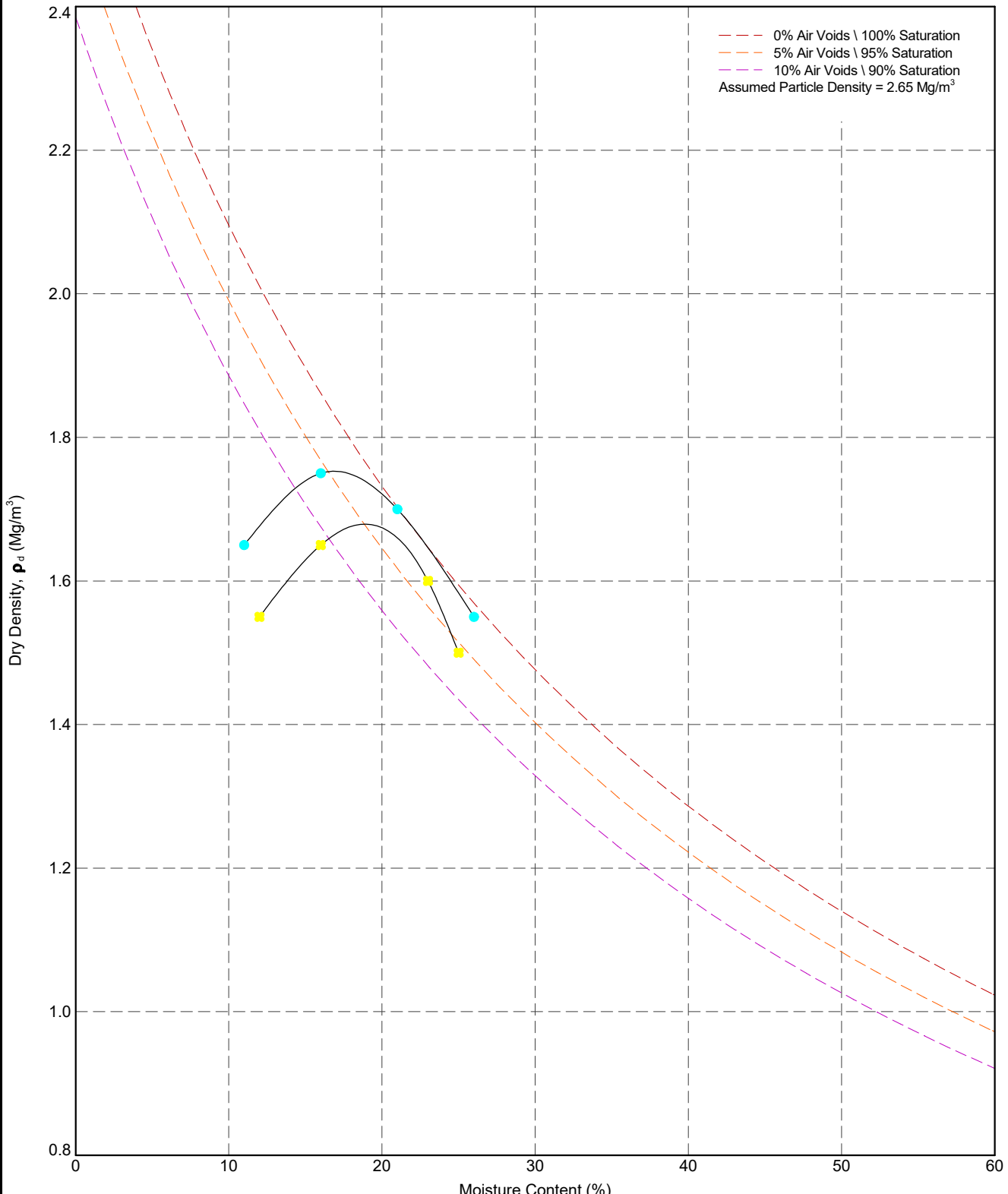
PointID Legend
■ ST/1090A
✖ ST/1162A/PZW



TITLE
Datgel
Engineer 1
Somewhere, World
Construction Project
Dry Density versus Moisture Content

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	146

DGD1-P.5.03.2.LIB.GLB.Graph A.L.CE.DD.VS.MC.BY.UNIT.DGD1-P.5.03.2.CPJ <<DrawingFile>> 9/9/2020 16:42 10.01.00.11.Datgel.Lab.and.In.Situ.Tool.DGD.LIB.DGD1-P.5.03.2.20200908.FH.DGD1-DLST.5.03.1.2020.05.05



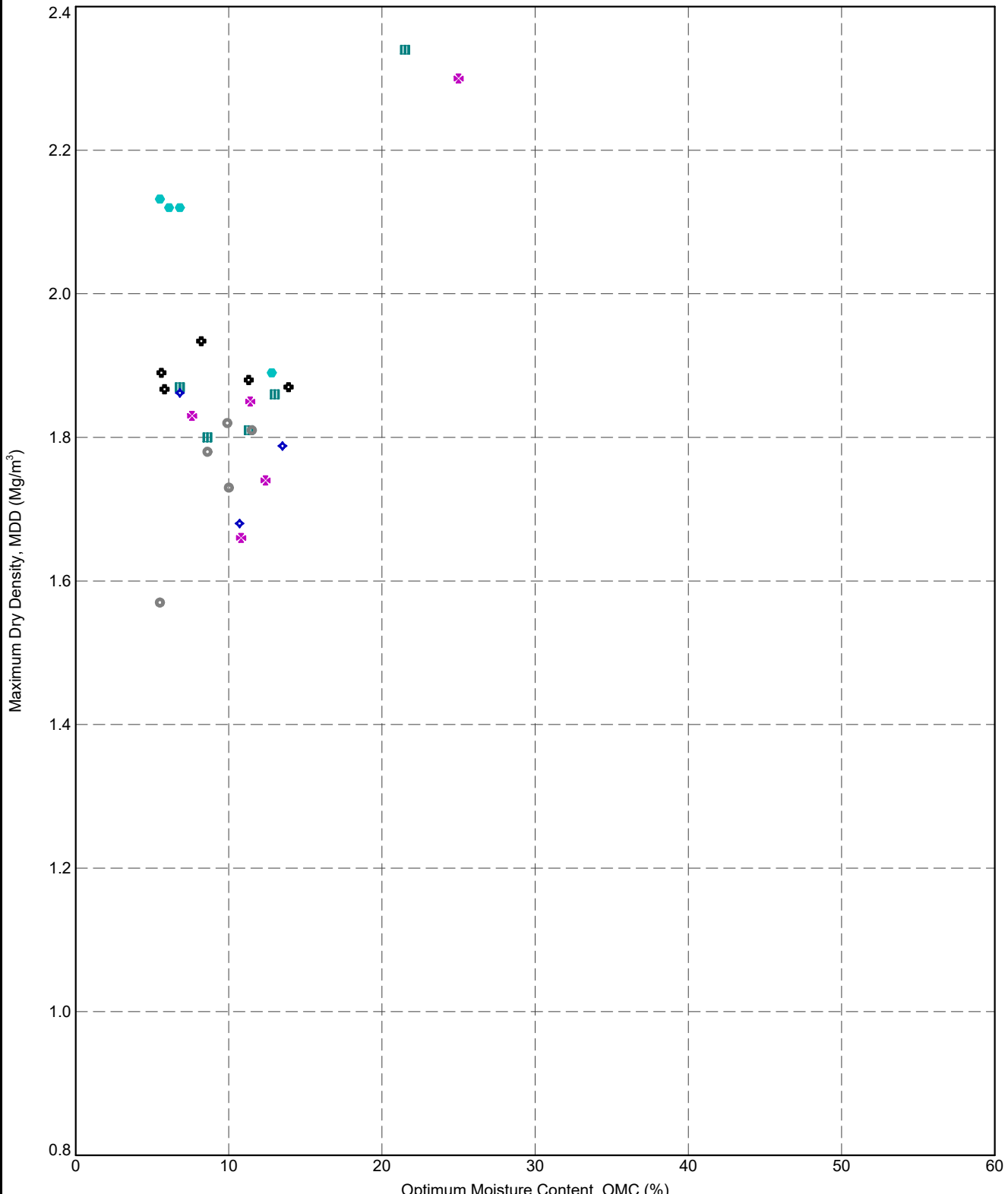
Geology Unit Legend
 ● FILL - BACKFILL
 ■ G(VI) - Granite (rocks & associated soils) Residua...



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Dry Density versus Moisture Content

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	147

DGDTP.5.03.2.LIB.GLB.Graph A.L.CE.MDD.VS.OMC BY:PTID_DGDTP.5.03.2.GPJ ->C:\DrawingsFiles>> 9/9/2020 18:42 10.01.00.11 Datgel.Lab.and.In.Situ.Tool_DGD.LIB.DGDTP.5.03.2.2020-09-08.FH.DGDTP.DLST.5.03.1.2020-09-05



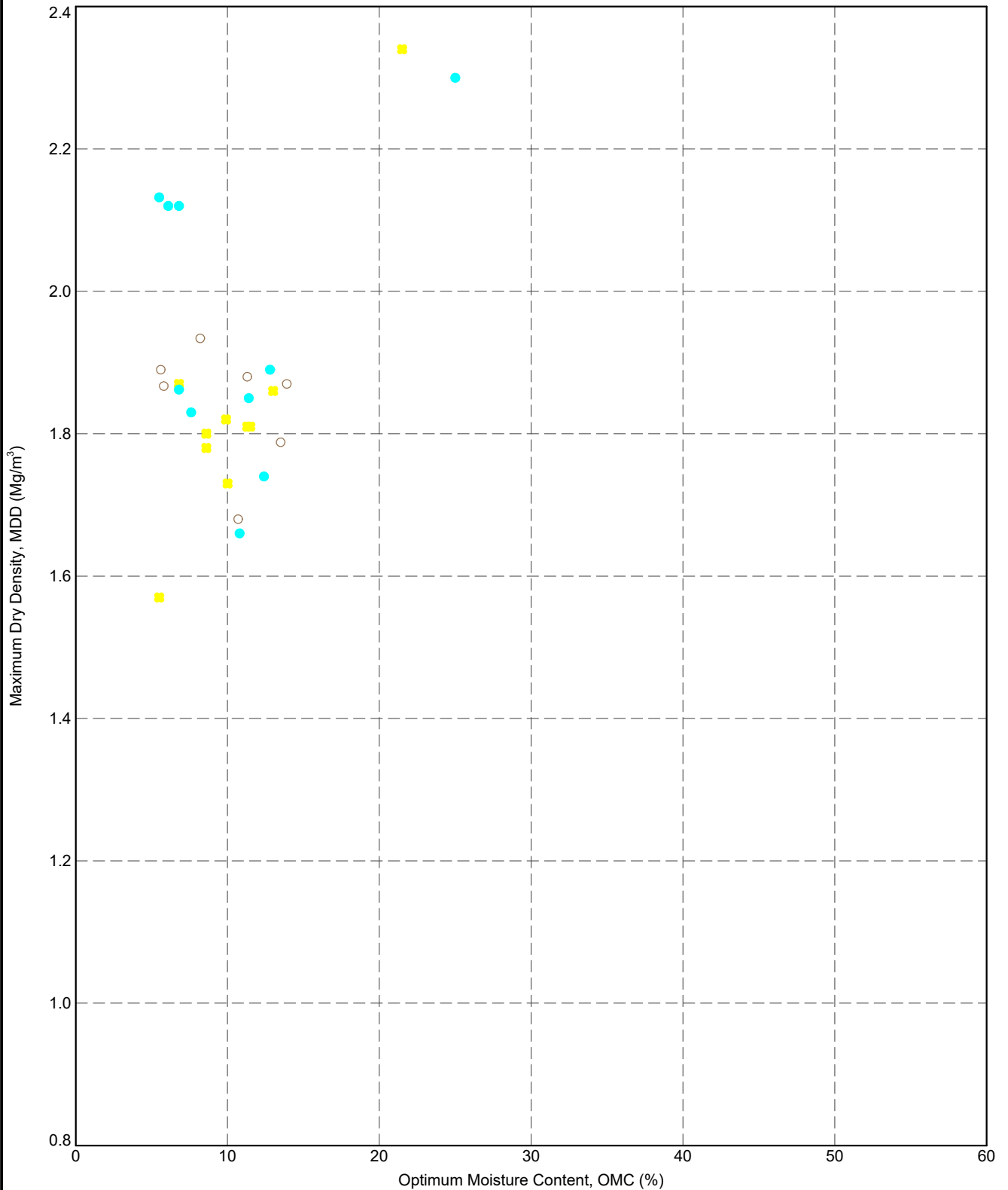
- PointID Legend**
- ST/1090A
 - ST/1090B/PRM
 - ⊕ ST/1149A
 - ◆ ST/1149B/VST_PZW
 - ✕ ST/1162A/PZW
 - ST/1162B/VST_PZW



TITLE
Datgel
Engineer 1
Somewhere, World
Construction Project
Max. Dry Density vs. Opt. Moisture Content

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	148

DGD1-P-5.03.2-UB.GLB Graph A.L.CE.MDD.VS.OMC BY:UNIT.DGD1-P-5.03.2.GPJ <<DrawingFile>> 9/9/2020 16:42 10.01.00.11 Datgel Lth and In Situ Test_DGD | Ub_DGD1-P-5.03.2.2020-09-08 Pj.DGD1-DLST 5.03.1.2020-09-05



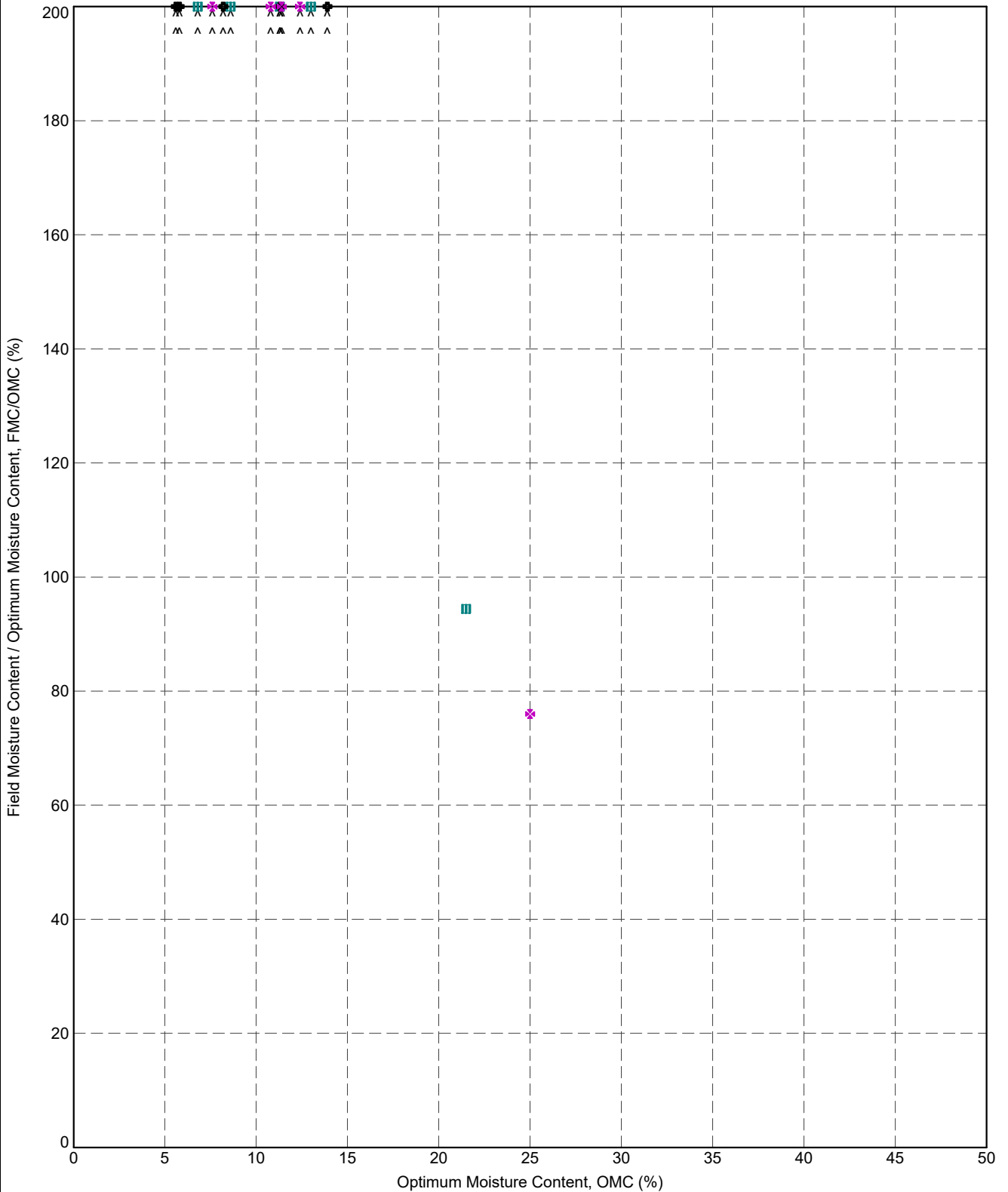
Geology Unit Legend
 ● FILL - BACKFILL
 ○ M - Marine Clay
 ■ G(VI) - Granite (rocks & associated soils) Residua...



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
Max. Dry Density vs. Opt. Moisture Content

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	149

DGD1-P.5.03.2.LIB.GLB Graph A.LCE.OMC.VS.FMC/OMC.BY.PTID.DGD1-P.5.03.2.GPJ --DrawingFile--> 9/9/2020 16:42 10.01.001.11 Datgel Lab and In Situ Tool - DGD1 - DGD1-P.5.03.2.2020-09-09.Plt.DGD1-DLST.5.03.1.2020-09-05



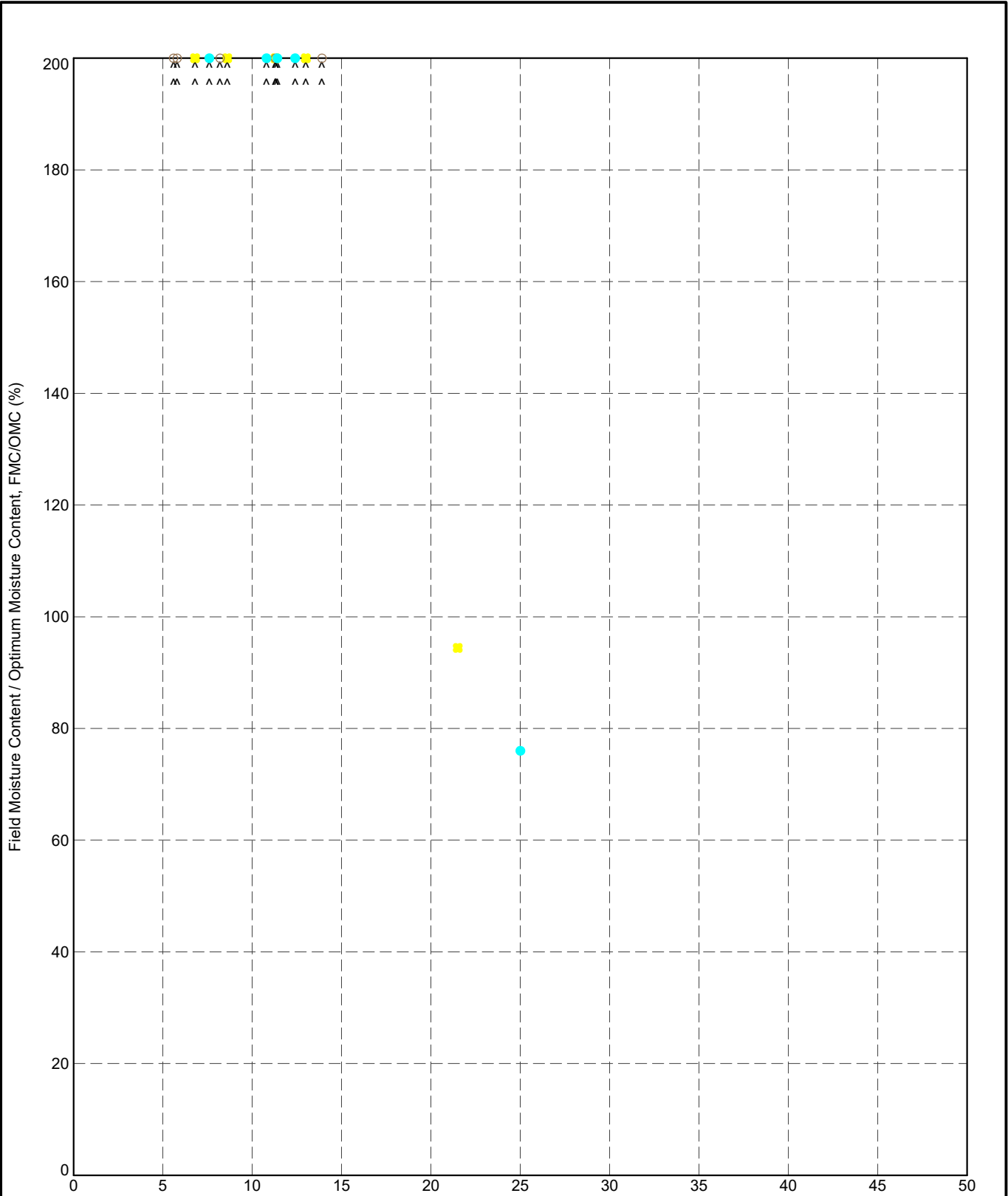
PointID Legend
■ ST/1090A
■ ST/1149A
× ST/1162A/PZW



TITLE
Datgel
Engineer 1
Somewhere, World
Construction Project
OMC versus Field MC / OMC

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	150

DGD1-P-5.03.2-UB-GLB-Graph-A-L-CE-OMC-VS-FMC/OMC-BY-UNIT-DGD1-P-5.03.2-GPJ --DrawingFile-- 9/9/2020 16:42 10.01.00.11 Datgel Lab and In Situ Tool - DGD - DGD1-P-5.03.2-2020-09-09-Plt-DGD1-CL-ST-5.03.1-2020-09-05



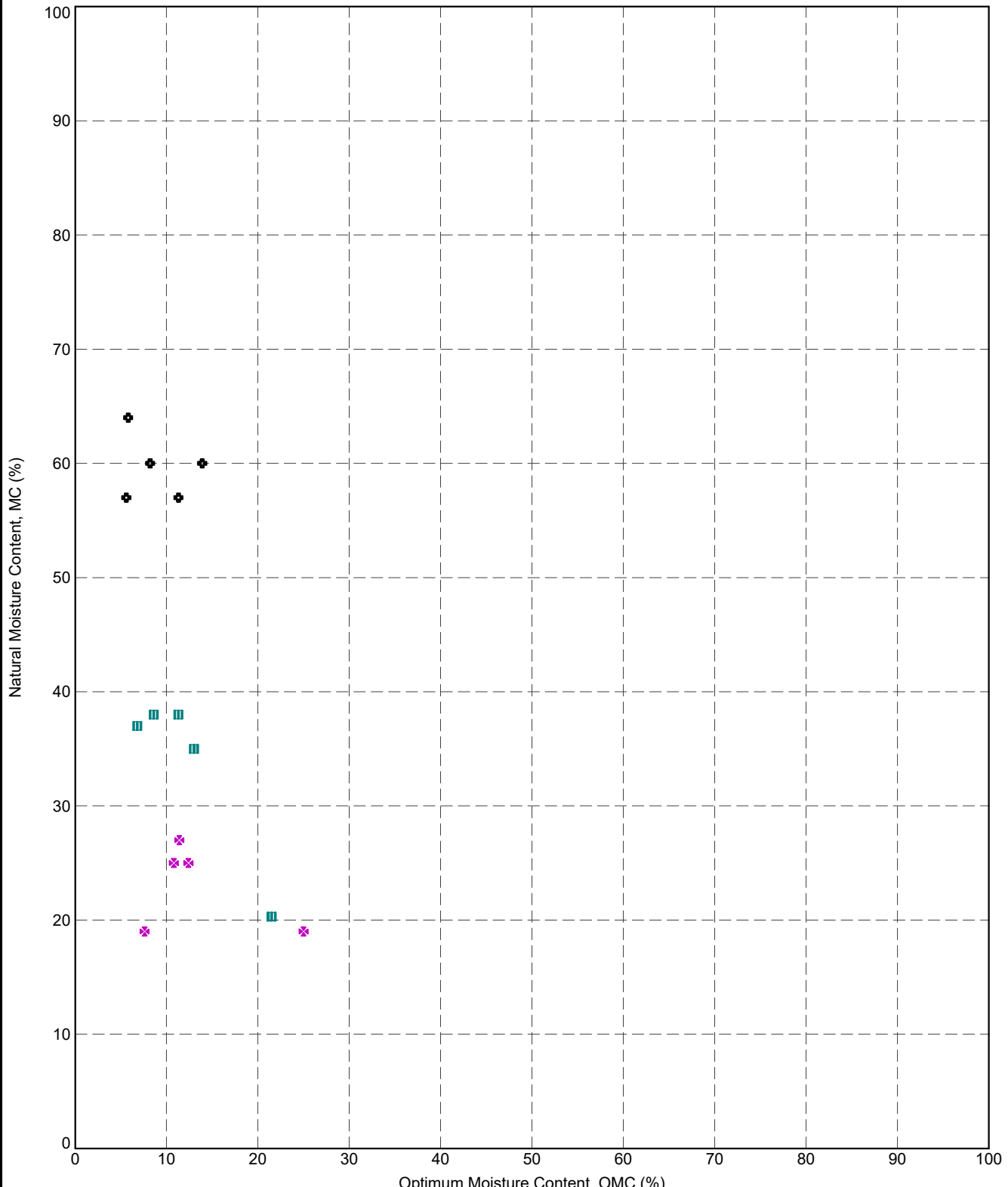
Geology Unit Legend
 ● FILL - BACKFILL
 ○ M - Marine Clay
 ● G(VI) - Granite (rocks & associated soils) Residua...



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 OMC versus Field MC / OMC

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	151

DGD1-P.5.03.2.LIB.GLB_Graph_A.LCE.OMC.VS.NATURAL.MC.BY.FTID.DGD1-P.5.03.2.GPJ --DrawingFile--> 9/9/2020 16:42 10/1/00.11 Datgel Lab and In Situ Tool - DGD1-P.5.03.2.2020-09-08 Pjt_DGD1-P.5.03.1.2020-09-05



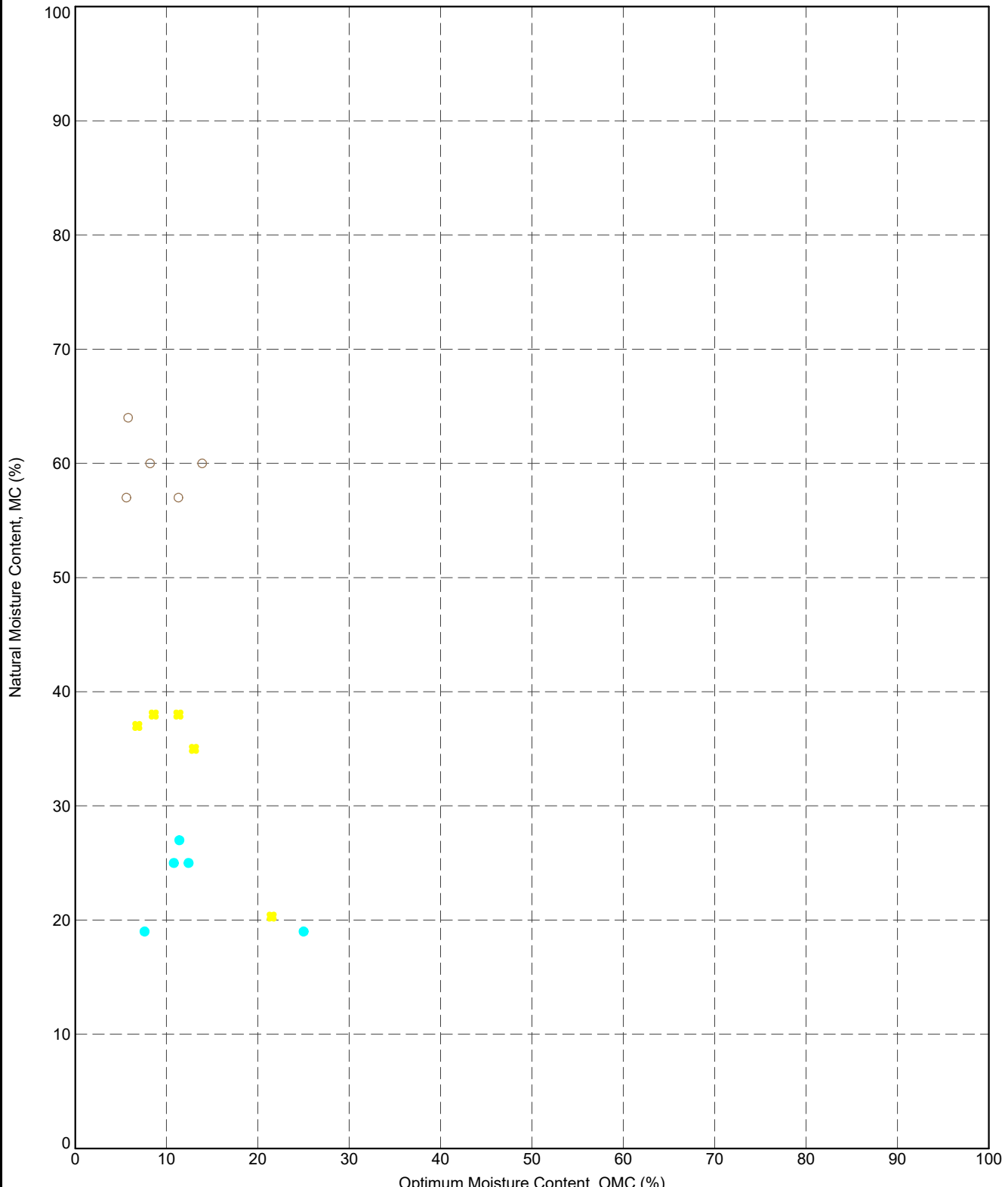
PointID Legend
■ ST/1090A
+ ST/1149A
× ST/1162A/PZW



TITLE
Datgel
Engineer 1
Somewhere, World
Construction Project
OMC versus NMC

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	152

DGD1-P.5.03.2.LIB.GLB_Graph_A.LCF.OMC.VS.NATURAL.MC.BY.UNIT.DGD1-P.5.032.GPJ --<DrawingFile>> 9/9/2020 16:42 10.01.00.11 Datgel Lab and in Situ Tool - DGD1.Lib.DGD1-P.5.03.2.2020-09-08 Proj.DGD1-PL-ST.5.03.1.2020-09-05

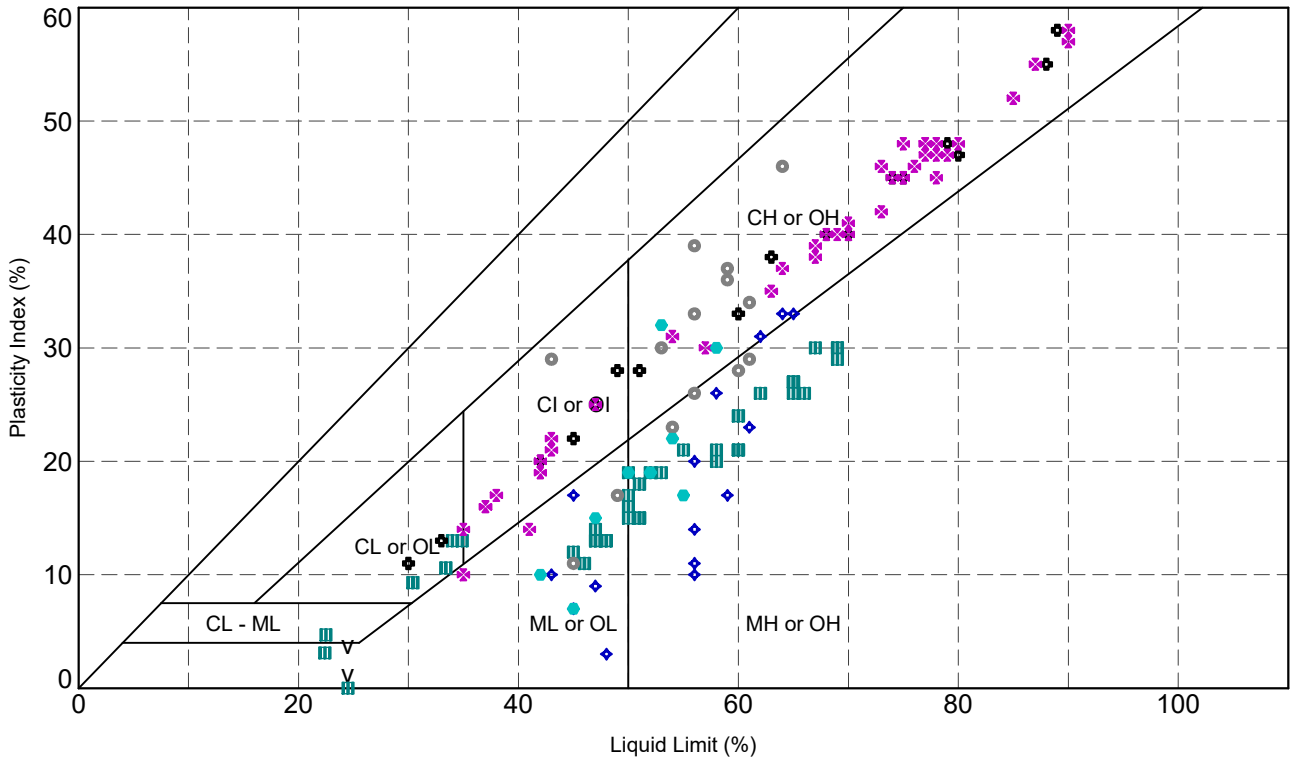


Geology Unit Legend
● FILL - BACKFILL
○ M - Marine Clay
■ G(VI) - Granite (rocks & associated soils) Residua...



TITLE
Datgel
Engineer 1
Somewhere, World
Construction Project
OMC versus NMC

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	153



PointID Legend

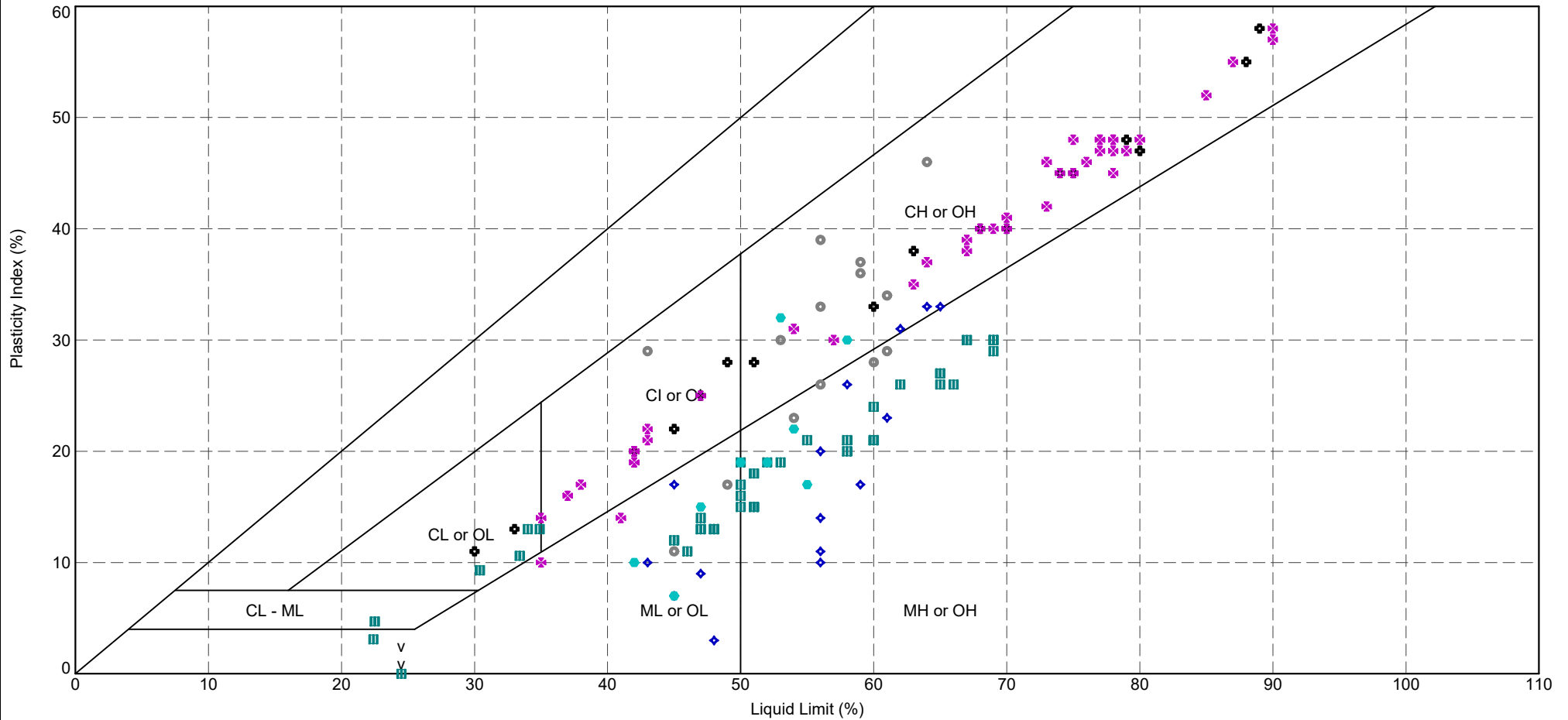
- ST/1090A
- ST/1090B/PRM
- ⊗ ST/1149A
- ◆ ST/1149B/VST_PZW
- ⊠ ST/1162A/PZW
- ST/1162B/VST_PZW

DGD1-P.5.03.2.LIB.GLB_Graph_A.LCS.ATTEBERG BY PTID_DGD1-P.5.03.2.GPJ <-DrawingFile> 9/9/2020 16:42 10.01.00.11 Datgel Lab and In Situ Tool -DGD [Lib: DGD1-P.5.03.2.2020-09-09.Pjt; DGD1-CL-ST.5.03.1.2020-09-05



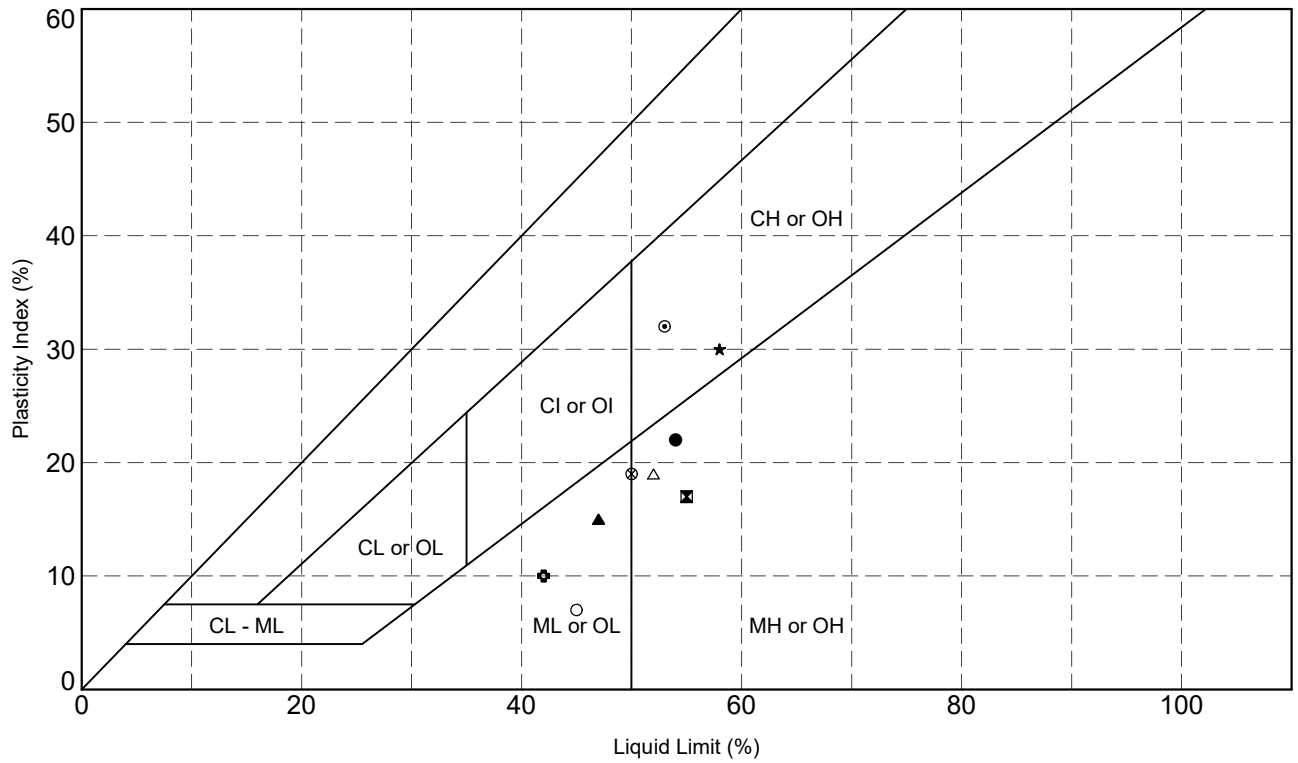
TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Atterberg Limits Summary By PointID

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	154



- PointID Legend
- ST/1090A
 - ST/1090B/PRM
 - ⊕ ST/1149A
 - ◆ ST/1149B/VST_PZW
 - ✕ ST/1162A/PZW
 - ST/1162B/VST_PZW

	TITLE	Datgel Engineer 1 Somewhere, World Construction Project Atterberg Limits Summary by PointID		DRAWN	PMW	DATE	9/9/2020
				CHECKED		DATE	9/9/2020
				SCALE	Not To Scale		A4
				PROJECT No	5.03.1	FIGURE No	155



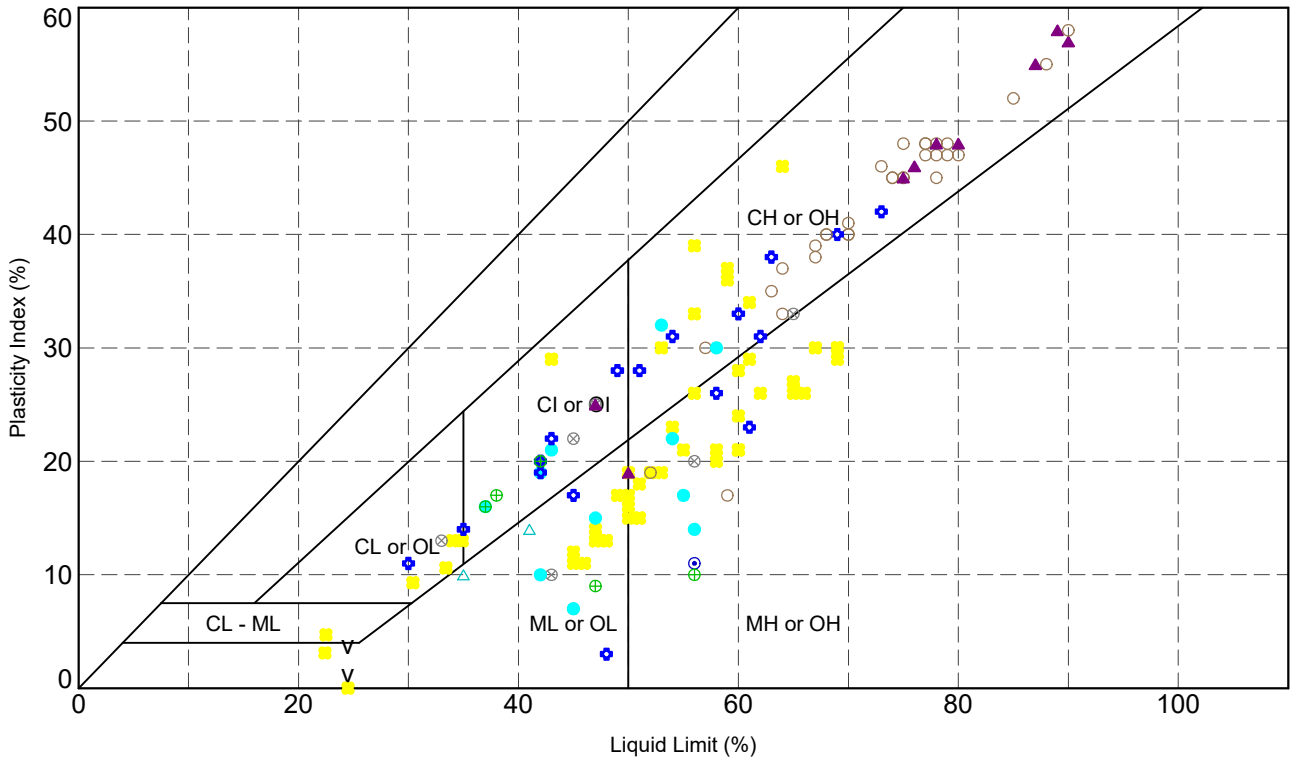
Hole ID	Depth (m)	LL	PL	PI	Fines	Classification
● ST/1162B/VST_PZW	0.50	54	32	22		
⊠ ST/1162B/VST_PZW	3.00	55	38	17		Sandy CLAY
▲ ST/1162B/VST_PZW	4.00	47	32	15		Sandy CLAY
★ ST/1162B/VST_PZW	10.00	58	28	30		Clayey SAND
⊙ ST/1162B/VST_PZW	11.00	53	21	32		Clayey SAND
⊕ ST/1162B/VST_PZW	12.00	42	32	10		Clayey SAND
○ ST/1162B/VST_PZW	13.00	45	38	7		Silty SAND
△ ST/1162B/VST_PZW	14.00	52	33	19		Marine CLAY
⊗ ST/1162B/VST_PZW	25.50	50	31	19		Organic CLAY

DGDTP.5.03.2.GLB Graph A.LCS.ATTERBERG BY SPECIMEN DGDTP.5.03.2.GPJ <DrawingFile> 9/9/2020 16:42 10.01.00.11 Datgel Lab and In Situ Tool - DGD Lib: DGDTP.5.03.2.2020.09.08.Pjt: DGDTP.5.03.1.2020.09.05



TITLE
Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Atterberg Limits Summary By Specimen

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	156



Geology Unit Legend

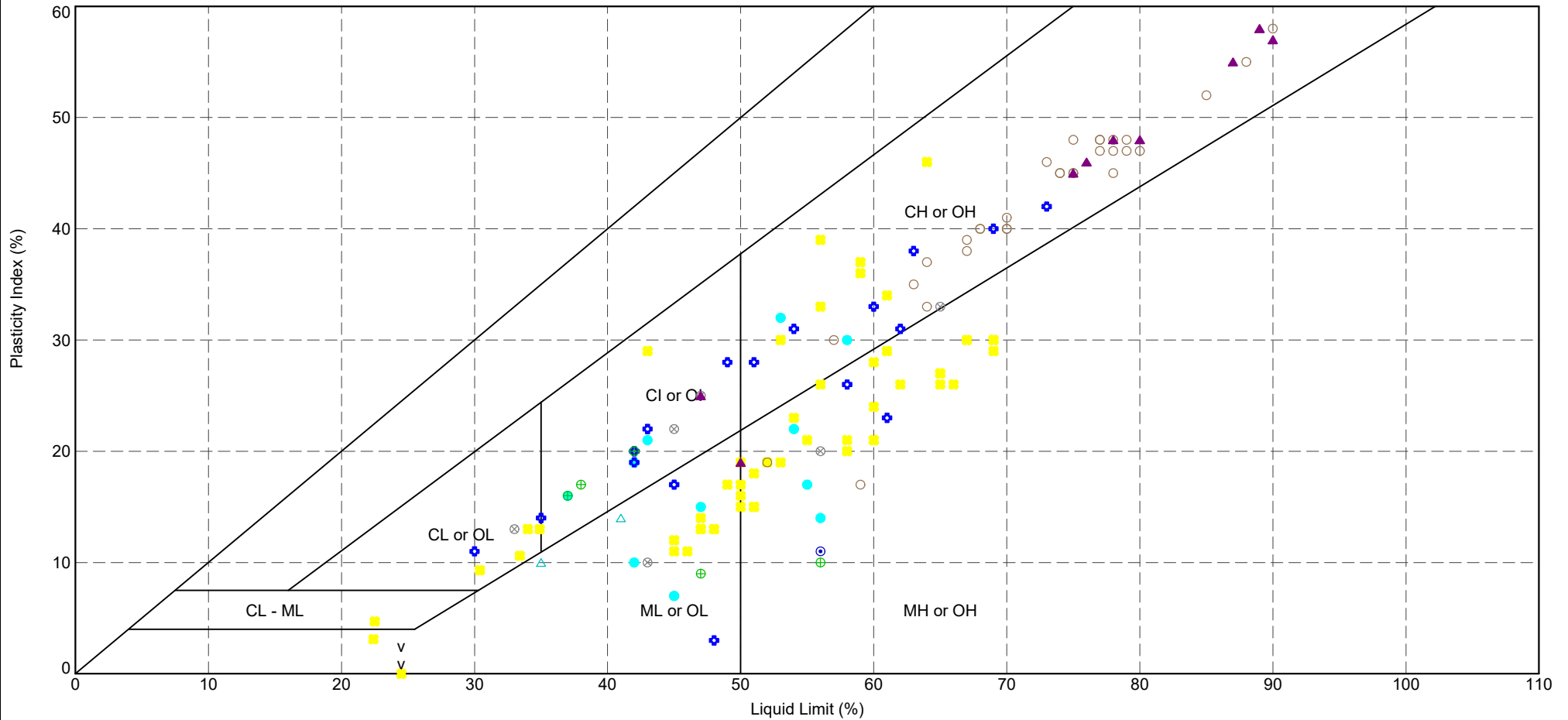
- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- F1 - Alluvial soil (Granular)
- F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- △ O(A) - Old Alluvium (Unweathered)
- ⊗ O(B) - Old Alluvium (Partially weathered)
- ⊕ O(C) - Old Alluvium (Distinctly weathered)
- G(VI) - Granite (rocks & associated soils) Residua...

DGD1-P.5.03.1.GLB - Graph - A1 - CS - ATTERBERG BY UNIT - DGD1-P.5.03.1.GPJ - DrawingFile - 9/8/2020 16:42 - 10/01/0011 - Datgel Lab and In Situ Test - DGD1 - DGD1-P.5.03.2.2020-09-08 Ph.DGD1-DUST 5.03.1.2020-09-05



TITLE
Datgel
Engineer 1
Somewhere, World
Construction Project
Atterberg Limits Summary By Geology Unit

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	157



Geology Unit Legend

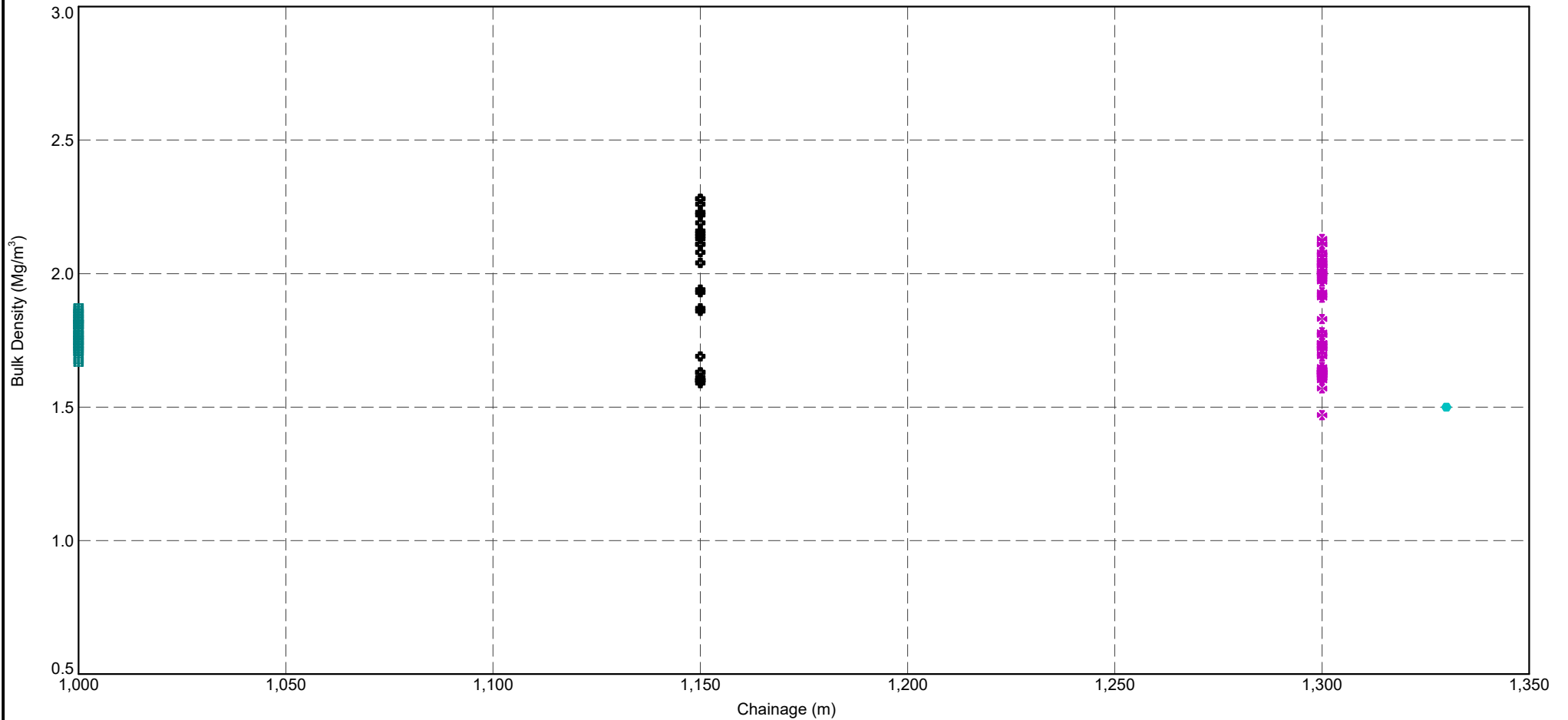
- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- ⊙ F1 - Alluvial soil (Granular)
- ⊕ F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- △ O(A) - Old Alluvium (Unweathered)
- ⊗ O(B) - Old Alluvium (Partially weathered)
- ⊕ O(C) - Old Alluvium (Distinctly weathered)

■ G(VI) - Granite (rocks & associated soils) Residua...




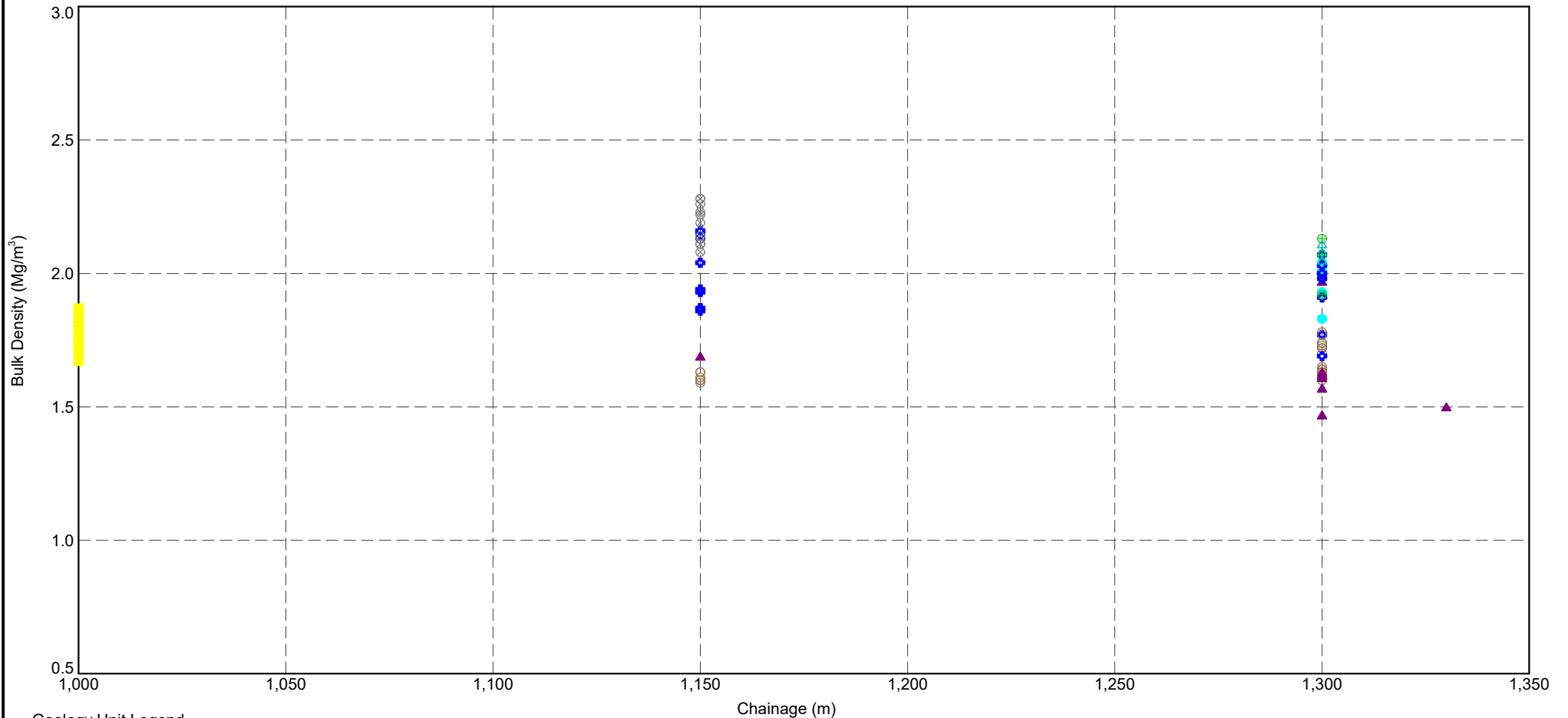
TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Atterberg Limits Summary by Geology Unit

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	158



PointID Legend
 ■ ST/1090A
 ⊕ ST/1149A
 ✕ ST/1162A/PZW
 ● ST/1162B/VST_PZW

 <p>Geotechnics • Geoenvironment • Laboratory</p>	TITLE Datgel Engineer 1 Somewhere, World Construction Project Bulk Density versus Chainage	DRAWN PMW	DATE 9/9/2020
		CHECKED	DATE 9/9/2020
		SCALE Not To Scale	A4
		PROJECT No 5.03.1	FIGURE No 159



Geology Unit Legend

- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- F1 - Alluvial soil (Granular)
- ⊕ F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- △ O(A) - Old Alluvium (Unweathered)
- ⊗ O(B) - Old Alluvium (Partially weathered)
- ⊕ O(C) - Old Alluvium (Distinctly weathered)

■ G(VI) - Granite (rocks & associated soils) Residua...

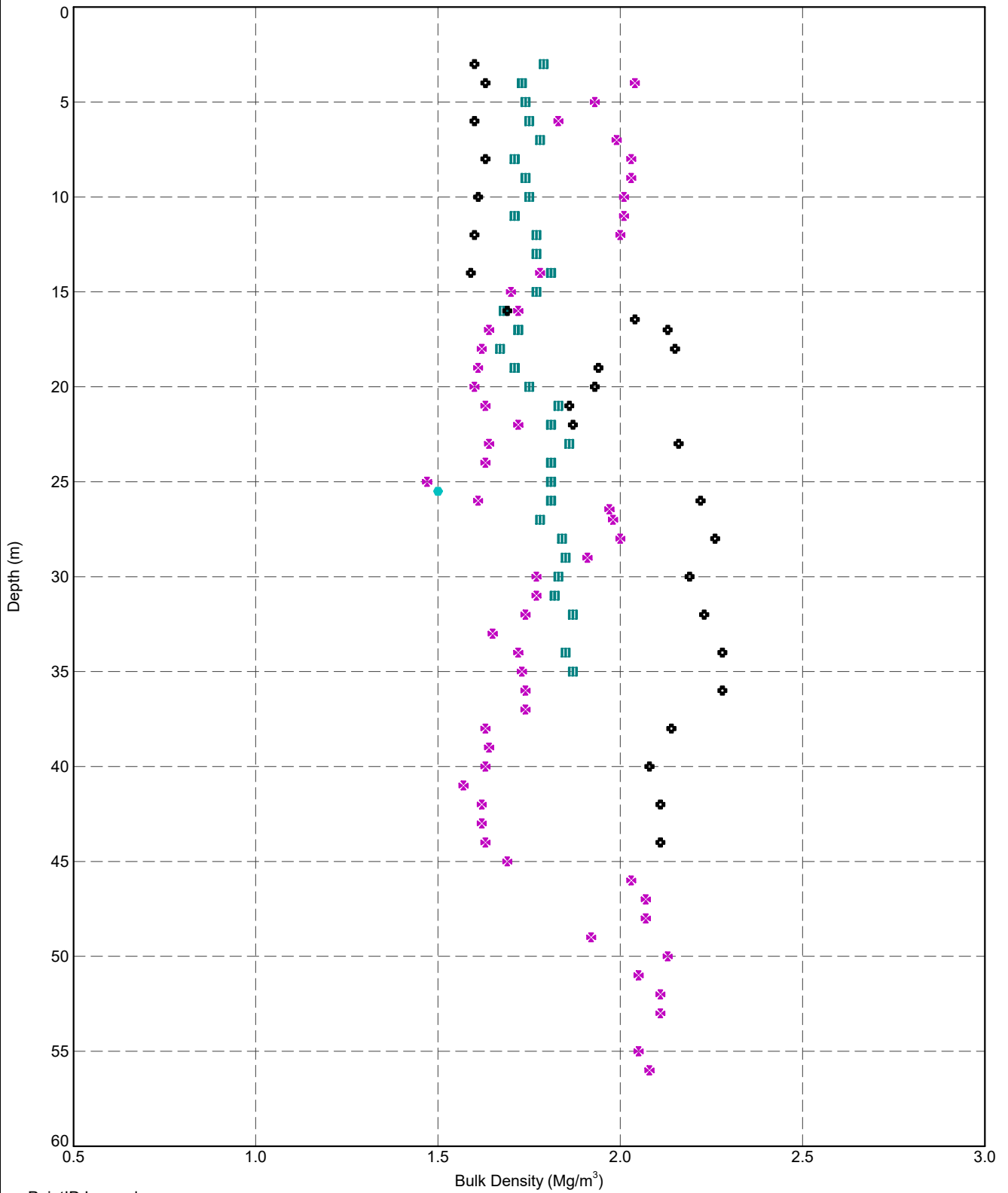


TITLE

Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Bulk Density versus Chainage

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	160

DGD1.P.5.03.2.LIB.GLB_Graph_A.LCS.BULK.DENSITY.VS.DEPTH BY PLOT DGD1.P.5.032.GPJ <DrawingFile>> 9/9/2020 16:43 10.01.00.11 Datgel Lab and In Situ Tool - DGD Lib DGD1.P.5.03.2.2020-09-08 P1: DGD1.LA.ST.5.03.1.2020-09-05



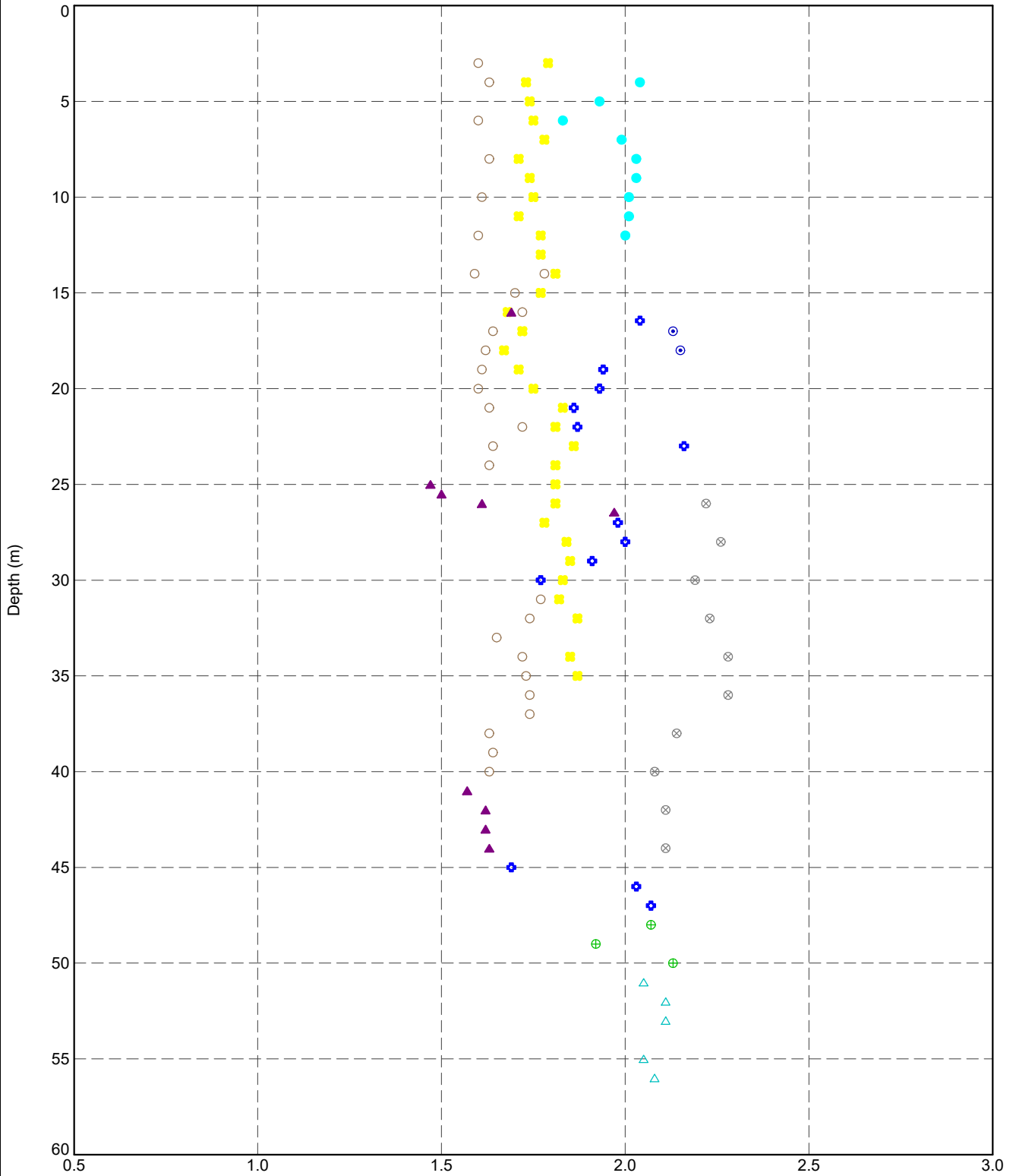
PointID Legend
■ ST/1090A
⊗ ST/1149A
× ST/1162A/PZW
● ST/1162B/VST_PZW



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Bulk Density vs. Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	161

DGD1-P.5.03.2.LIB.GLB_Graph_A.LCS.BULK.DENSITY.VS.DEPTH BY UNIT_DGD1-P.5.03.2.2020-09-08 Ph: DGD1-DIST.5.03.1.2020-08-05



Geology Unit Legend

- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- F1 - Alluvial soil (Granular)
- ◊ F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- △ O(A) - Old Alluvium (Unweathered)
- ⊗ O(B) - Old Alluvium (Partially weathered)
- ⊕ O(C) - Old Alluvium (Distinctly weathered)
- G(VI) - Granite (rocks & associated soils) Residua...
- ✱ G(IV) - Granite (rocks & associated soils) Highly ...
- G(III) - Granite (rocks & associated soils) Modera...
- G(II) - Granite (rocks & associated soils) Slightl...

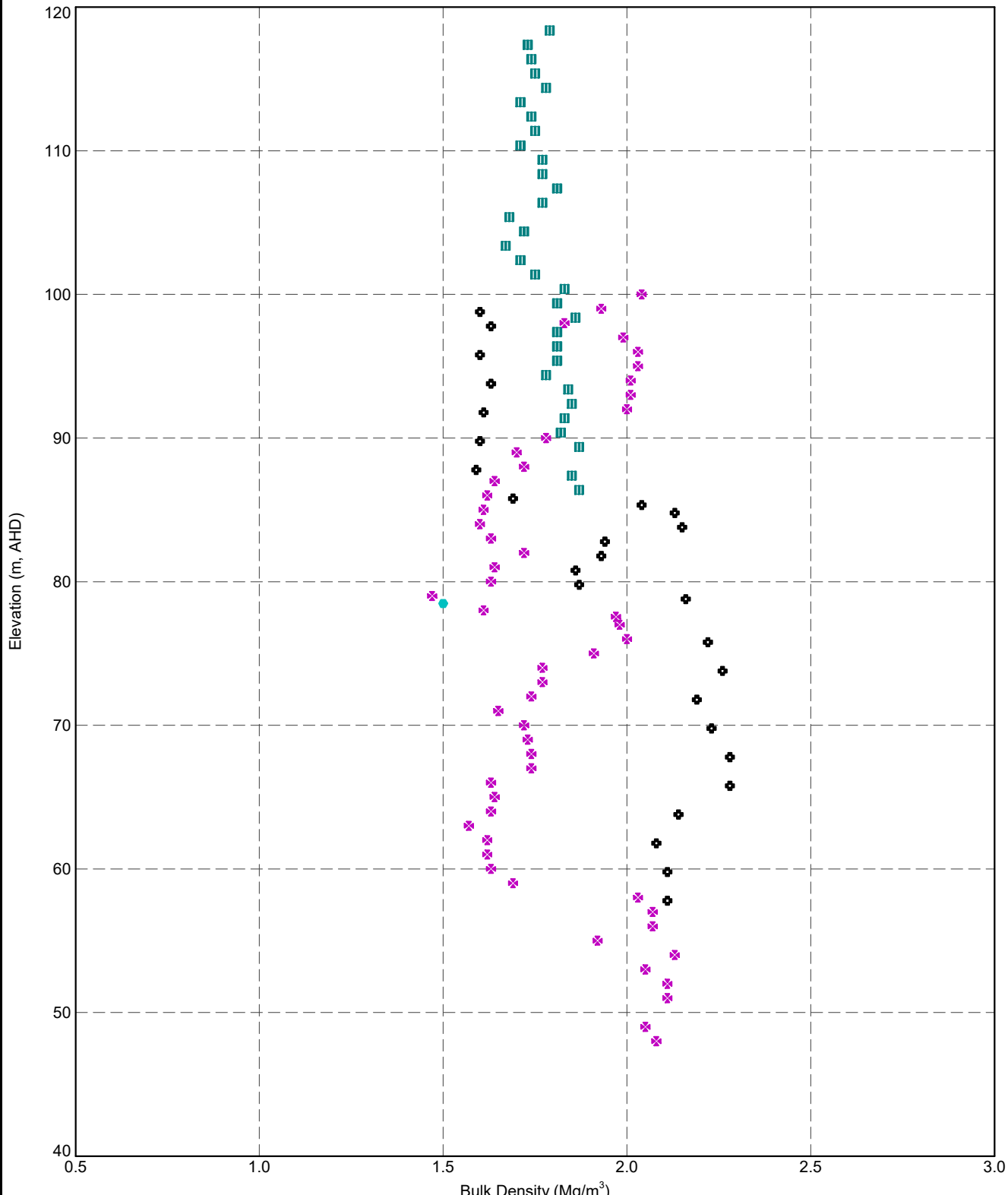


TITLE

Datgel
Engineer 1
Somewhere, World
Construction Project
Bulk Density versus Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	162

DGDTP.5.03.2.LIB.GLB_Graph_A.LCS.BULK.DENSITY.VS.RL.BY.PTID.DGDTP.5.03.2.2020-09-08.Plot_DGDTP.5.03.1.2020-09-05



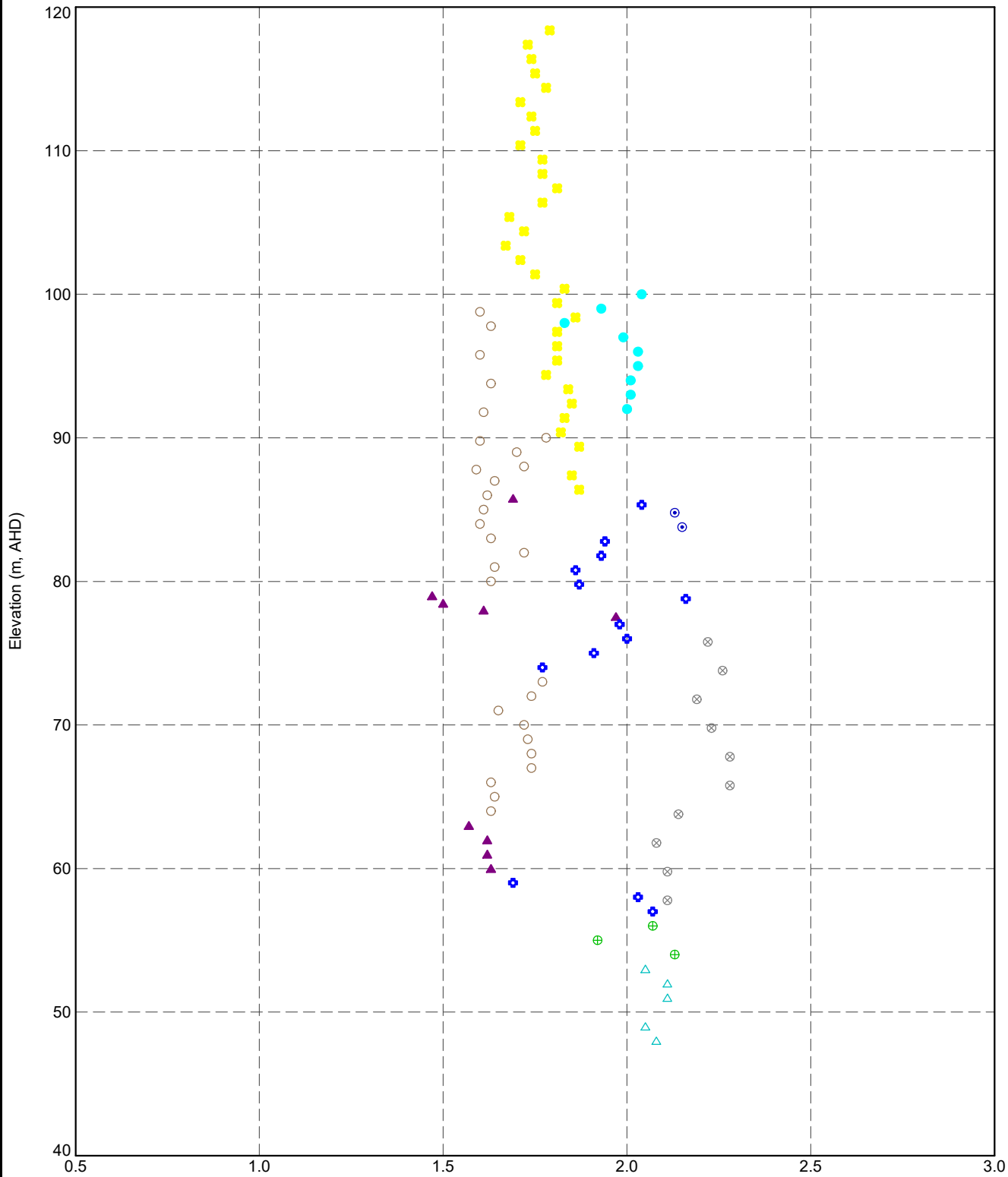
PointID Legend
■ ST/1090A
● ST/1149A
× ST/1162A/PZW
● ST/1162B/VST_PZW



TITLE
Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Bulk Density versus Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	163

DGD1-P.5.03.1.GLB.Graph A.LCS.BULK.DENSITY.VS.RL.BY UNIT DGD1-P.5.03.2.2020-09-08.Plt.DGD1-DLST.5.03.1.2020-09-05
 9/9/2020 16:53 10.01.00.11 Datgel Lab and in Situ Tool - DGD1 [Lib:DGD1-P.5.03.2.2020-09-08.Plt.DGD1-DLST.5.03.1.2020-09-05]



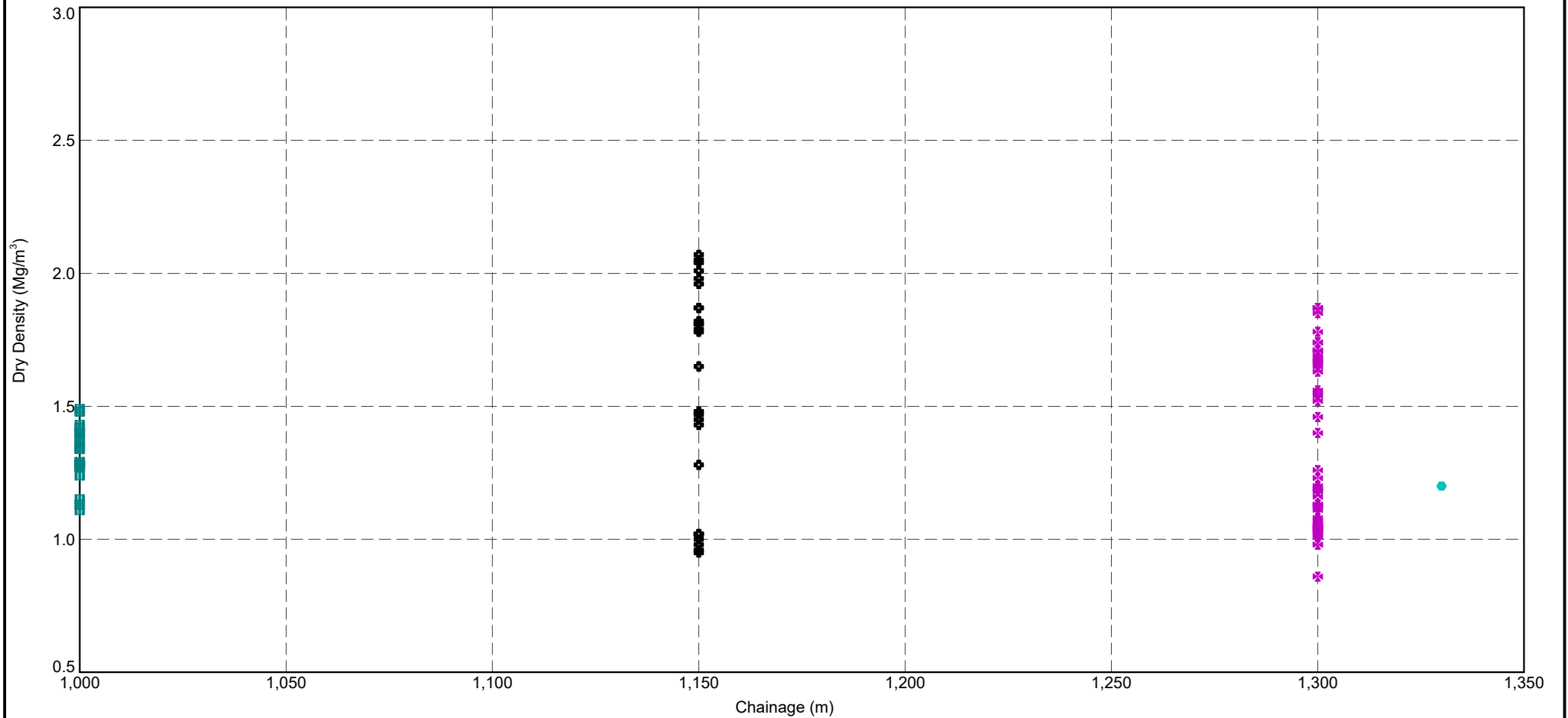
Geology Unit Legend

- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- F1 - Alluvial soil (Granular)
- F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- △ O(A) - Old Alluvium (Unweathered)
- ⊗ O(B) - Old Alluvium (Partially weathered)
- ⊕ O(C) - Old Alluvium (Distinctly weathered)
- G(VI) - Granite (rocks & associated soils) Residua...
- ★ G(IV) - Granite (rocks & associated soils) Highly ...
- G(III) - Granite (rocks & associated soils) Modera...
- G(II) - Granite (rocks & associated soils) Slightl...




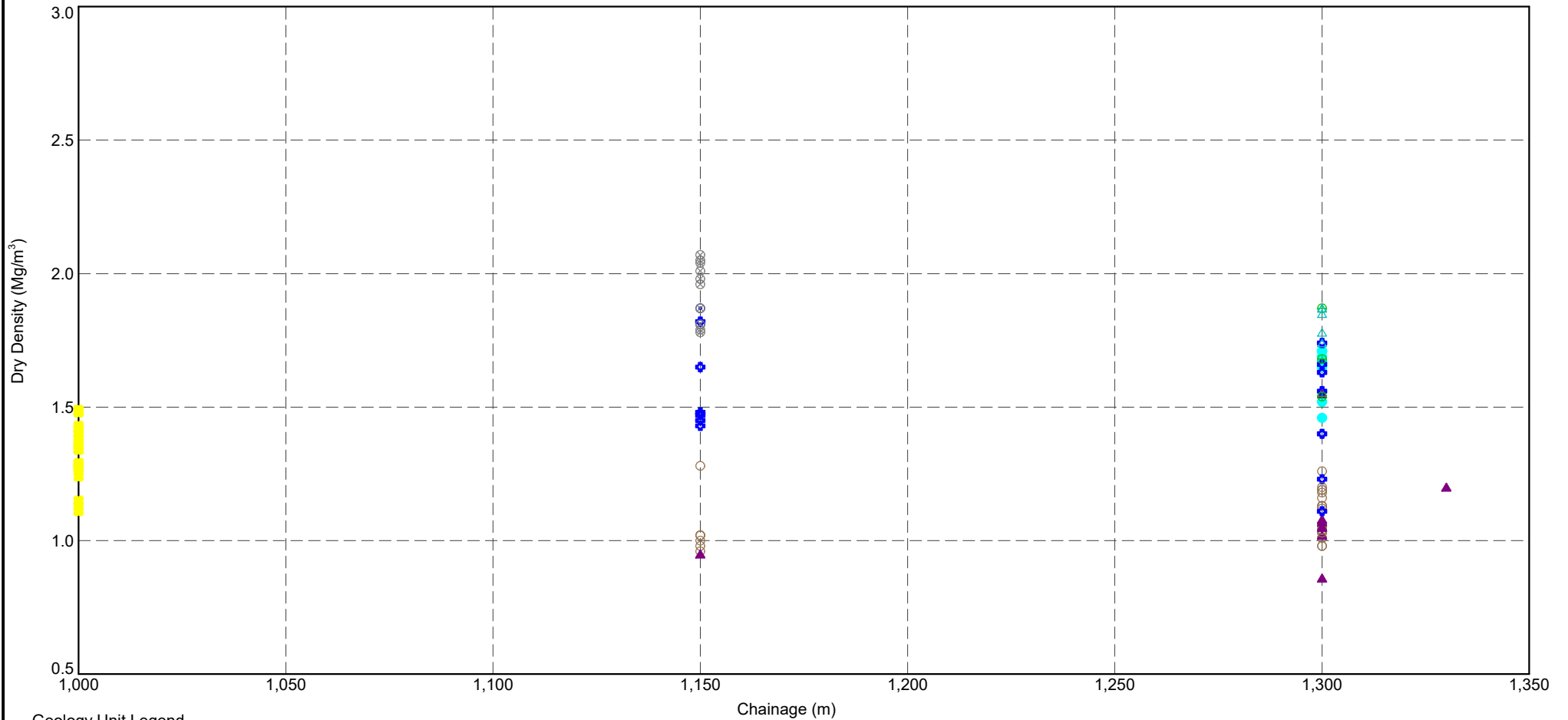
TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Bulk Density versus Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1		FIGURE No 164



PointID Legend
 ■ ST/1090A
 ■ ST/1149A
 * ST/1162A/PZW
 ● ST/1162B/VST_PZW

	TITLE	Datgel Engineer 1 Somewhere, World Construction Project Dry Density versus Chainage		DRAWN	PMW	DATE	9/9/2020
				CHECKED		DATE	9/9/2020
				SCALE	Not To Scale		A4
				PROJECT No	5.03.1	FIGURE No	165



Geology Unit Legend

- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- F1 - Alluvial soil (Granular)
- F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- △ O(A) - Old Alluvium (Unweathered)
- ⊗ O(B) - Old Alluvium (Partially weathered)
- ⊕ O(C) - Old Alluvium (Distinctly weathered)

■ G(VI) - Granite (rocks & associated soils) Residua...

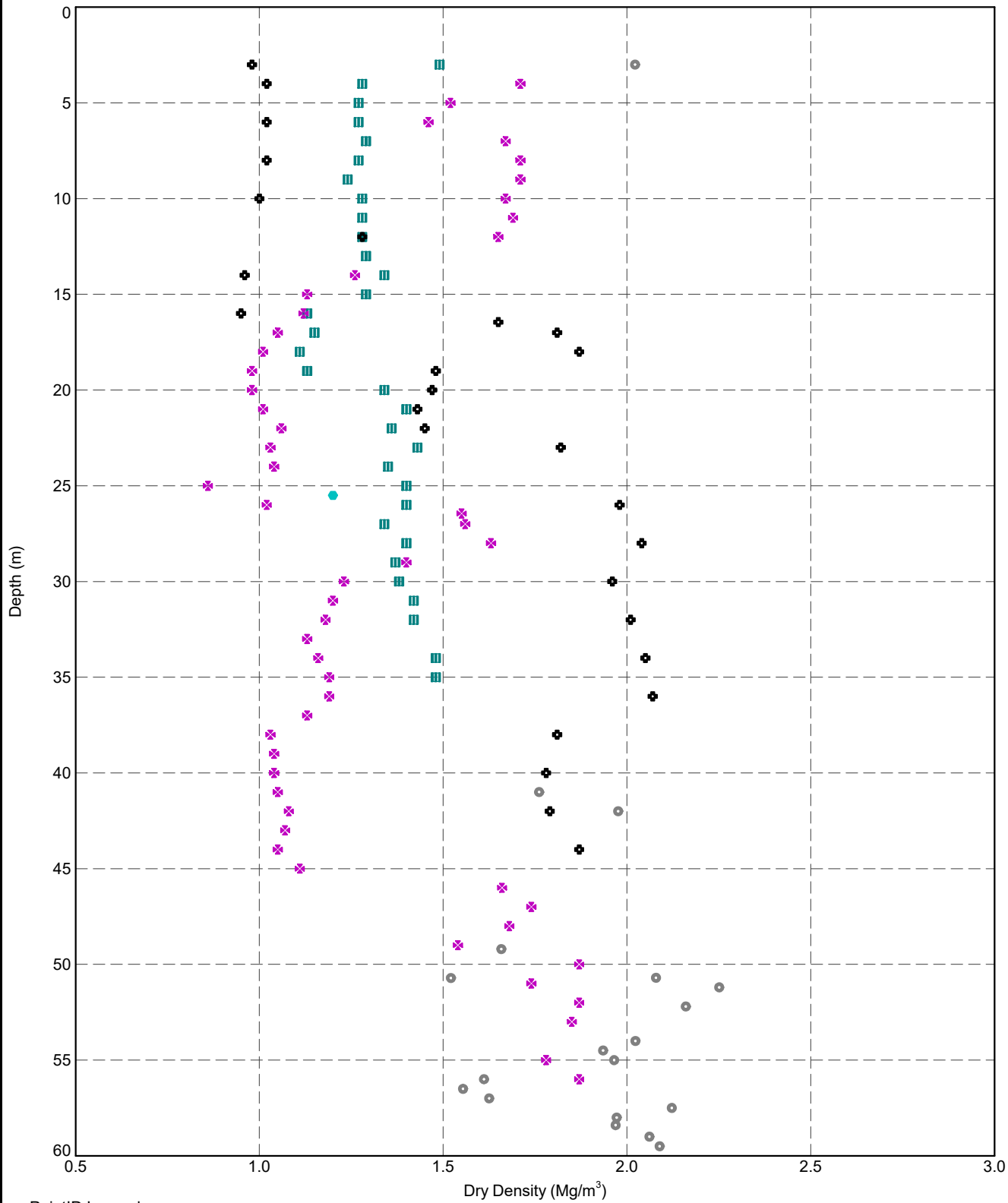


TITLE

Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Dry Density versus Chainage

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	166

DGD1-P.5.03.2.LIB.GLB Graph A.L.CS.DRY.DENSITY.VS.DEPTH.BY.PTID.DGD1-P.5.03.2.GPJ <-DrawingFile>> 9/9/2020 16:43 10.01.00.11 Datgel Lab and In Situ Tool - DGD [Lib: DGD1-P.5.03.2.2020-09-08.Pjt; DGD1-DLST.5.03.1.2020-09-05



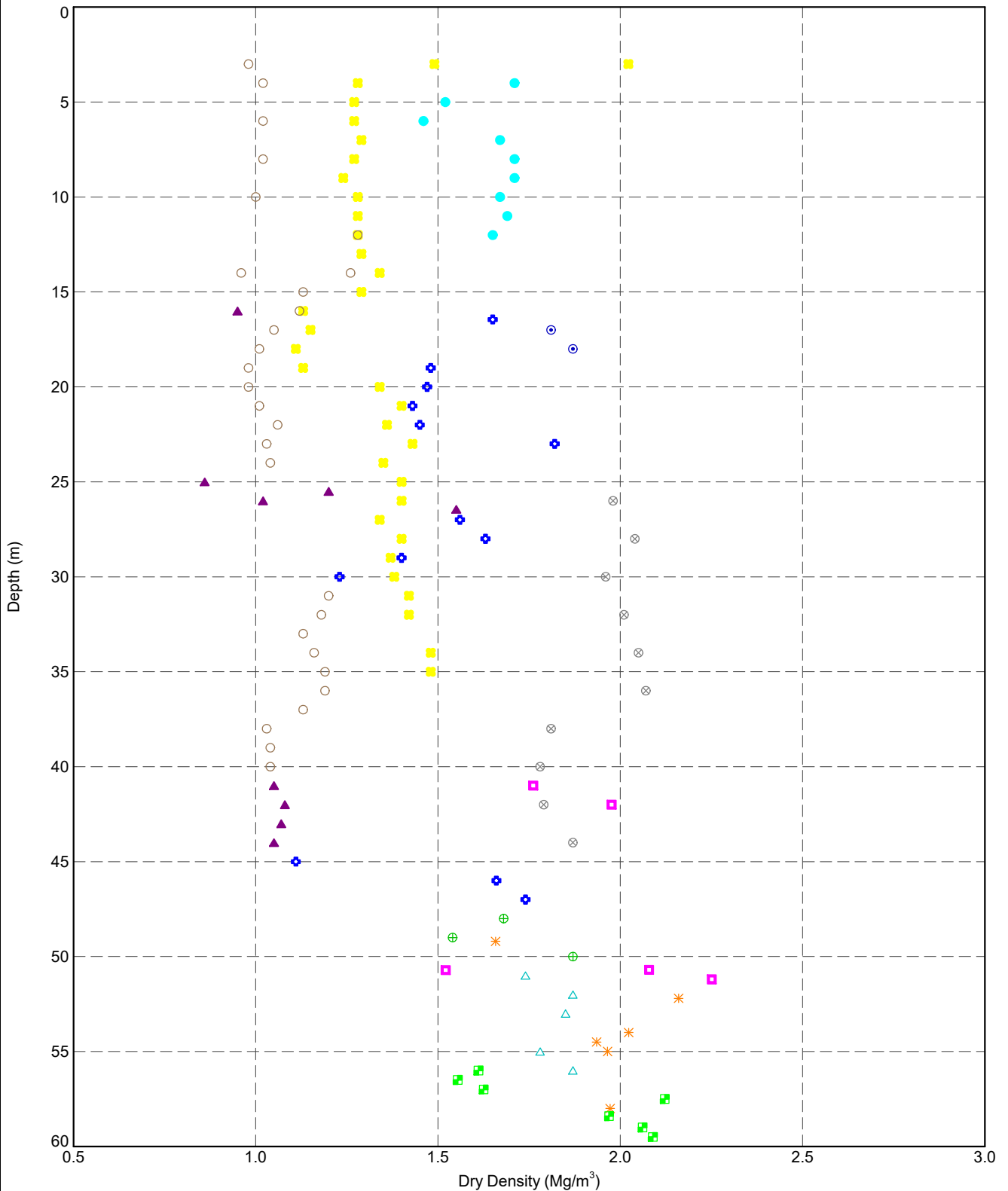
PointID Legend
■ ST/1090A
● ST/1090B/PRM
⊕ ST/1149A
✕ ST/1162A/PZW
● ST/1162B/VST_PZW



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Dry Density versus Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	167

DGDTP.5.03.1.DRY.DENSITY.VS.DEPTH.BY.UNIT.DGDTP.5.03.2.GPJ <-DrawingFile>> 9/9/2020 16:43 10.01.00.11 Datgel Lab and In Situ Tool - DGD (Lib: DGDTP.5.03.2.2020-09-08.Pri.DGDTP.DIST.5.03.1.2020-09-05)



Geology Unit Legend

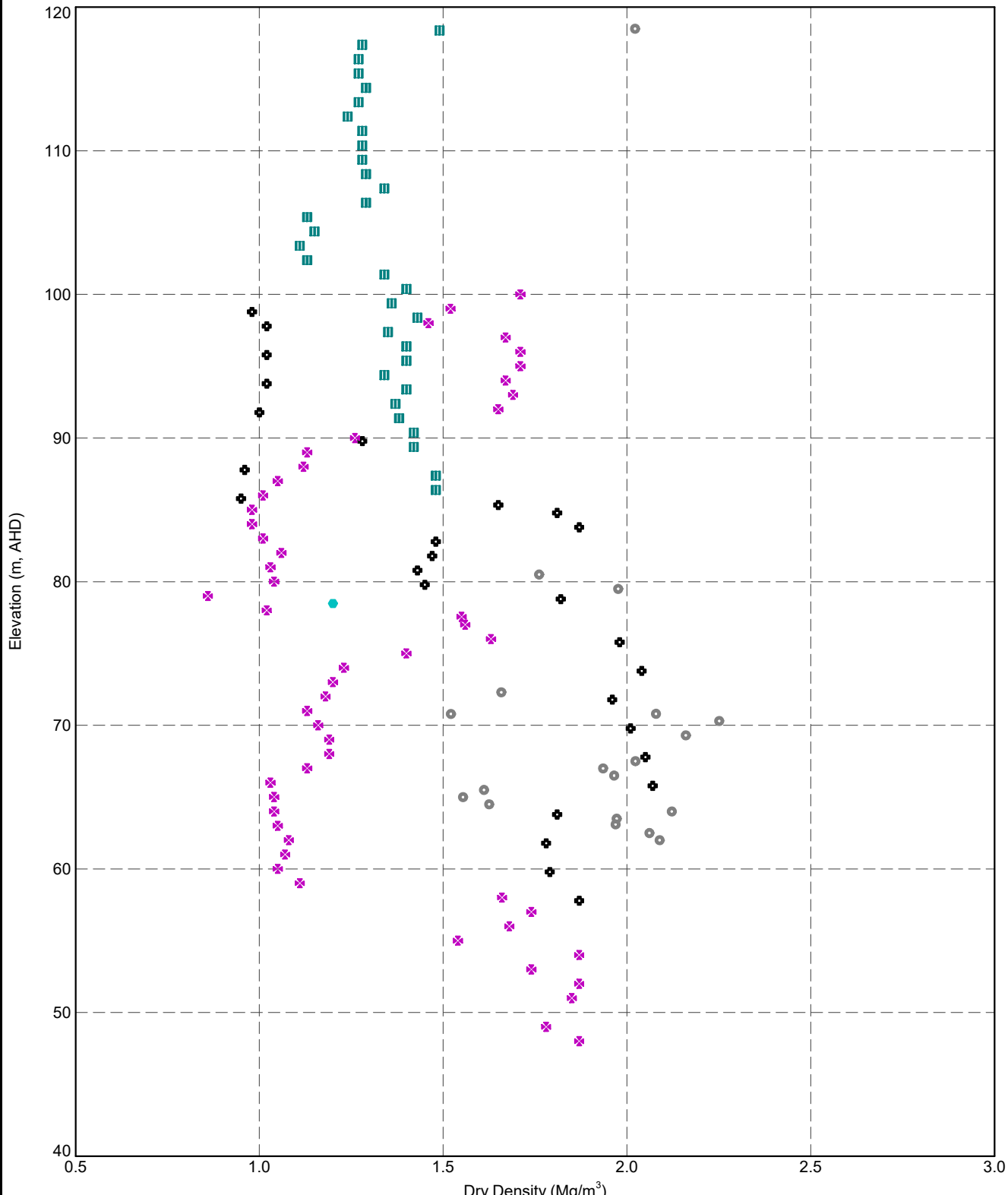
- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- F1 - Alluvial soil (Granular)
- ◼ F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- △ O(A) - Old Alluvium (Unweathered)
- ⊗ O(B) - Old Alluvium (Partially weathered)
- ⊕ O(C) - Old Alluvium (Distinctly weathered)
- G(VI) - Granite (rocks & associated soils) Residual
- * G(IV) - Granite (rocks & associated soils) Highly weathered
- ◼ G(III) - Granite (rocks & associated soils) Moderately weathered
- G(II) - Granite (rocks & associated soils) Slightly weathered



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
Dry Density versus Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	168

D:\03\5.03.1\LIB.GLB_Graph_A1_CS_DRY_DENSITY_VS_RL_BY_PTD.DGD\T_P_5.03.2.GPJ -<DrawingFile> 9/9/2020 16:43:10.01.00.11_Datgel Lab and In Situ Tool_DGD | Lib: DGD\T_P_5.03.2_2020-09-08 PJ: DGD\T_P_5.03.1_2020-09-05



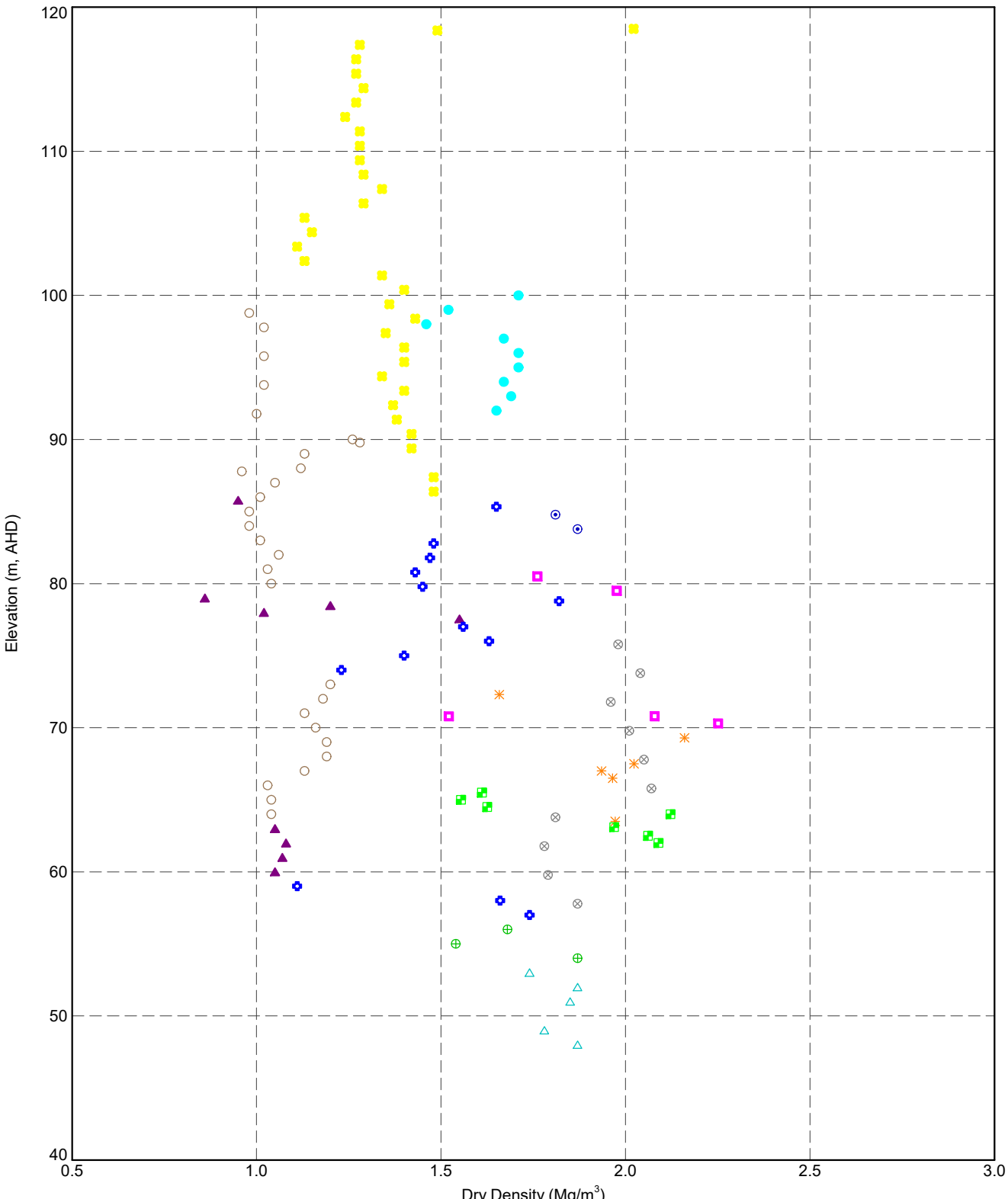
PointID Legend
 ■ ST/1090A
 ● ST/1090B/PRM
 ◆ ST/1149A
 ✕ ST/1162A/PZW
 ● ST/1162B/VST_PZW



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Dry Density versus Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	169

DGD1-P.5.03.1.DRY DENSITY.VS.RL.BY UNIT.DGD1-P.5.03.2.GPJ -<DrawingFile> 9/9/2020 16:43 10.01.00.11 Datgel Lab and H. Sui Tool - DGD | Ut: DGD1-P.5.03.2.2020-08.P1; DGD1-DLST.5.03.1.2020-08-05

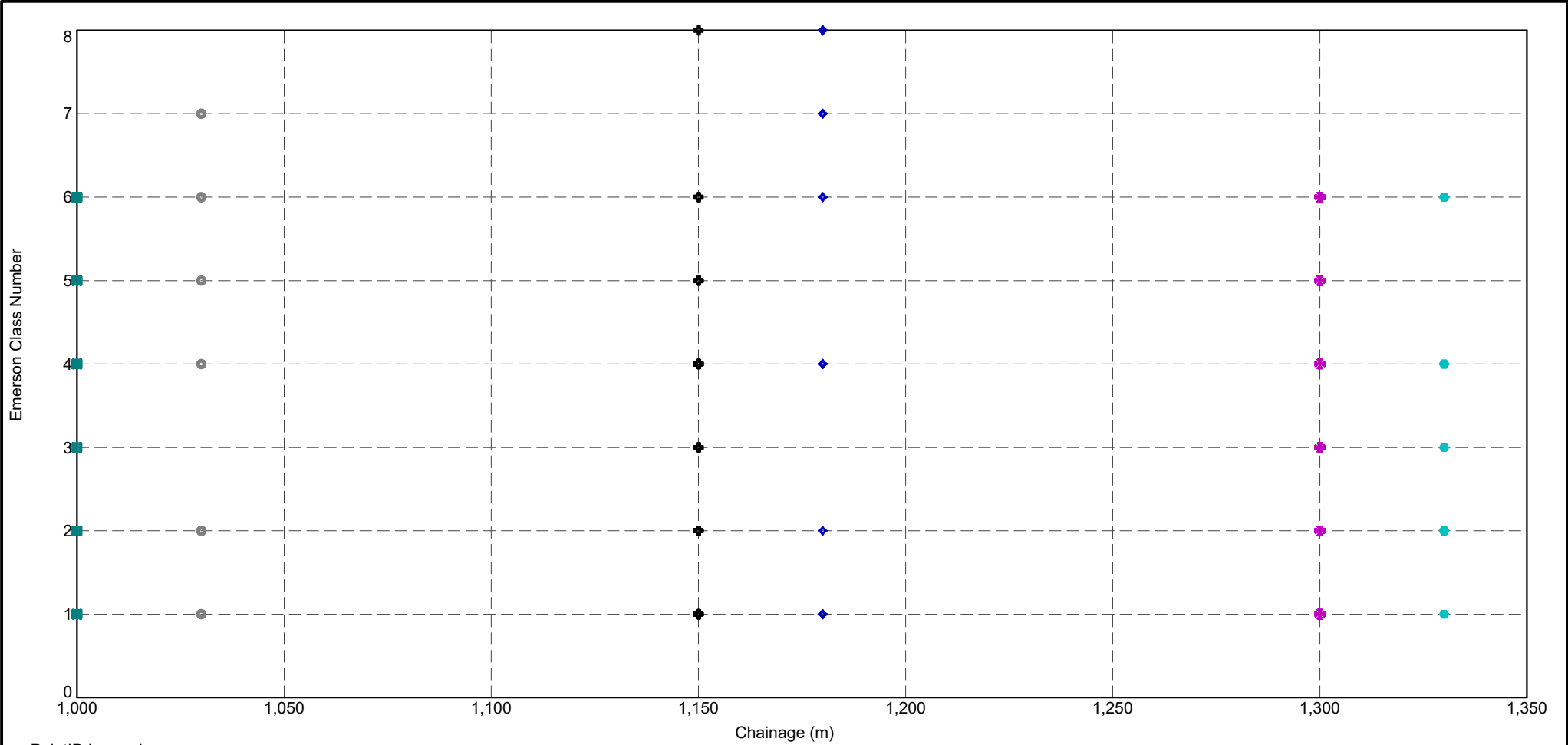


Geology Unit Legend


- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- F1 - Alluvial soil (Granular)
- ◆ F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- △ O(A) - Old Alluvium (Unweathered)
- ⊗ O(B) - Old Alluvium (Partially weathered)
- ⊕ O(C) - Old Alluvium (Distinctly weathered)
- G(VI) - Granite (rocks & associated soils) Residual
- ✳ G(IV) - Granite (rocks & associated soils) Highly ...
- ◻ G(III) - Granite (rocks & associated soils) Modera...
- G(II) - Granite (rocks & associated soils) Slightl...

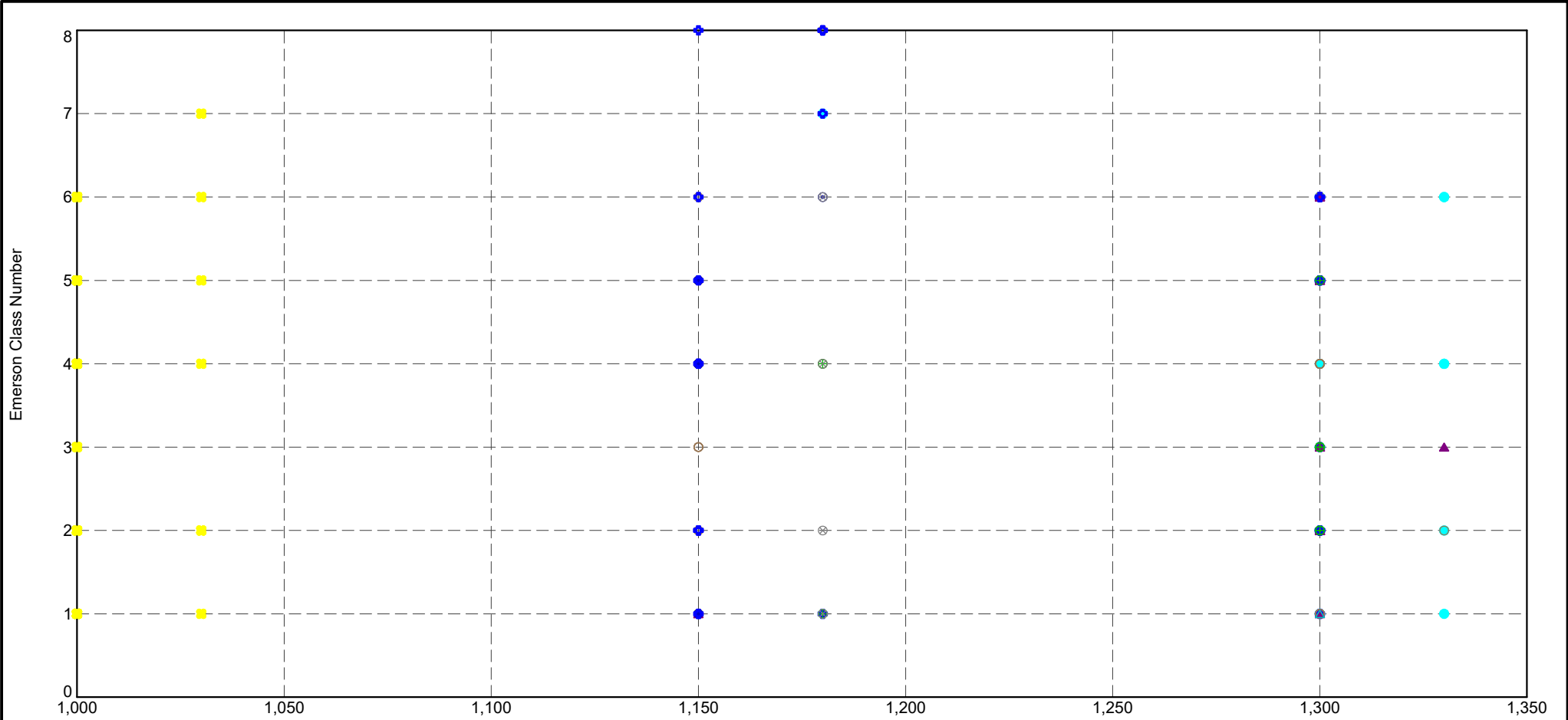


TITLE <p style="text-align: center;">Datgel Engineer 1 Somewhere, World Construction Project Dry Density versus Elevation</p>	DRAWN <p style="text-align: center;">PMW</p>	DATE <p style="text-align: center;">9/9/2020</p>	
	CHECKED	DATE <p style="text-align: center;">9/9/2020</p>	
	SCALE <p style="text-align: center;">Not To Scale</p>		A4
	PROJECT No <p style="text-align: center;">5.03.1</p>	FIGURE No <p style="text-align: center;">170</p>	



- PointID Legend
- ST/1090A
 - ST/1090B/PRM
 - ⊕ ST/1149A
 - ◆ ST/1149B/VST_PZW
 - ✱ ST/1162A/PZW
 - ST/1162B/VST_PZW

 <p>Datgel DATA SOLUTIONS Geotechnics • Geoenvironment • Laboratory</p>	TITLE	Datgel Engineer 1 Somewhere, World Construction Project Emerson Crumb versus Chainage		DRAWN	PMW	DATE	9/9/2020
	SCALE	Not To Scale		A4	CHECKED	DATE	9/9/2020
	PROJECT No	5.03.1		FIGURE No	171		



Geology Unit Legend

- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- F1 - Alluvial soil (Granular)
- ◆ F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- △ O(A) - Old Alluvium (Unweathered)
- ⊗ O(B) - Old Alluvium (Partially weathered)
- ⊕ O(C) - Old Alluvium (Distinctly weathered)

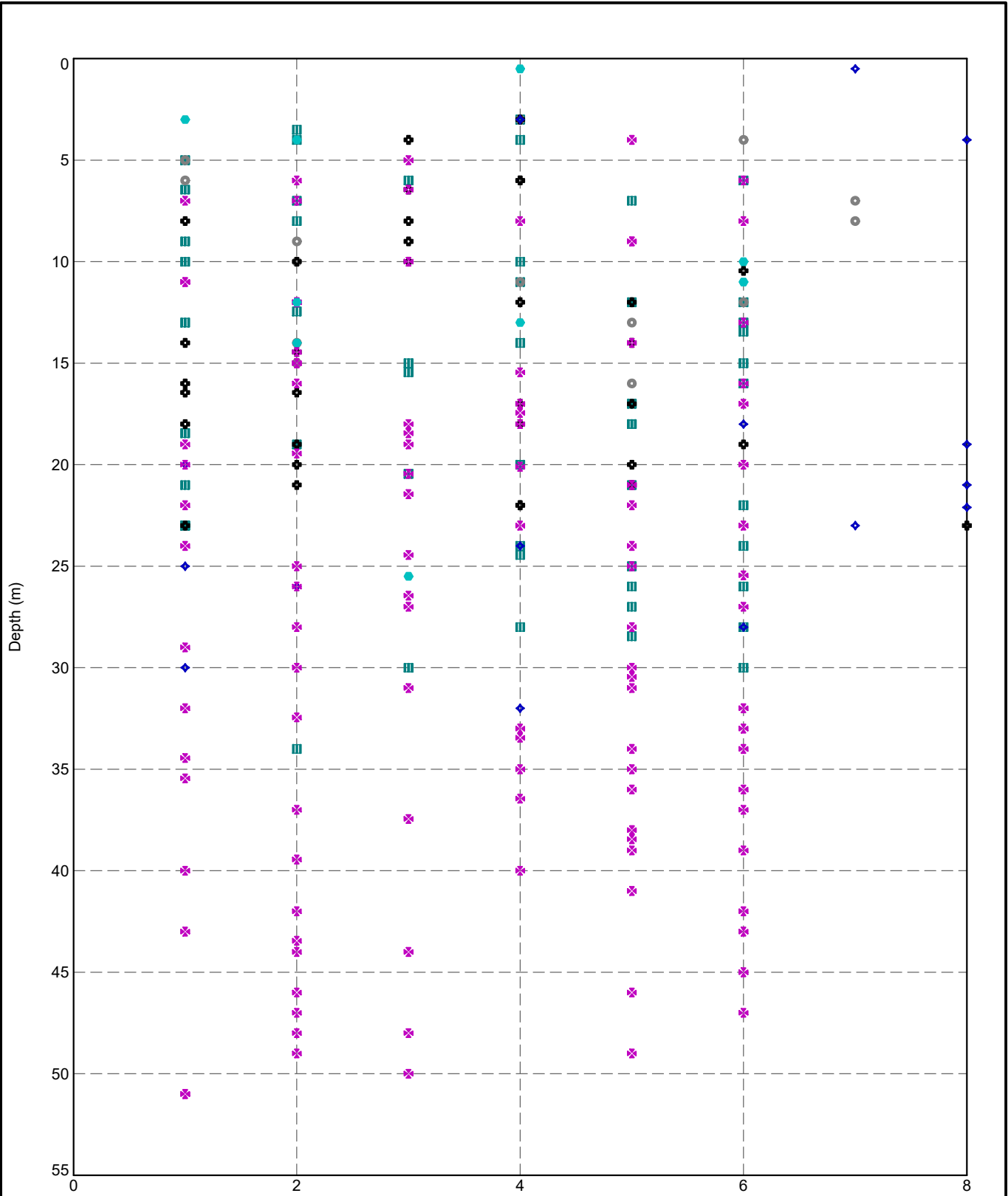
■ G(VI) - Granite (rocks & associated soils) Residua...



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Emerson Crumb versus Chainage

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	172

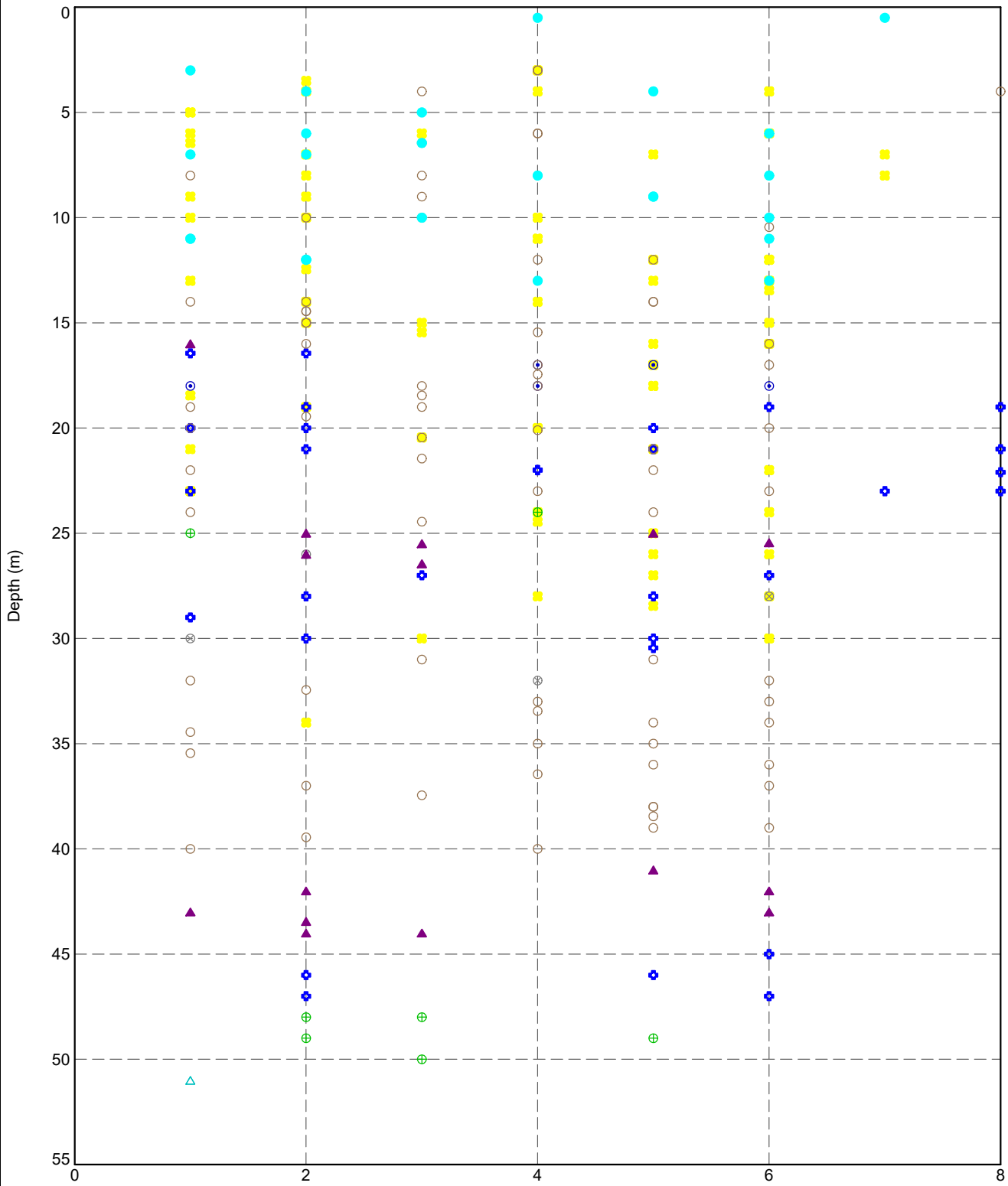
DGD1-F.5.03.2.GLB Graph A.LCS-EMERSON CRUMB VS DEPTH BY PLOT DGD1-F.5.03.2.GLB and In Situ Tool DGD1-DLST.5.03.1.2020-09-05



- PointID Legend**
- ST/1090A
 - ST/1090B/PRM
 - ST/1149A
 - ◆ ST/1149B/VST_PZW
 - × ST/1162A/PZW
 - ST/1162B/VST_PZW

 Datgel DATA SOLUTIONS Geotechnics • Geoenvironment • Laboratory	TITLE Datgel Engineer 1 Somewhere, World Construction Project Emerson Crumb versus Depth	DRAWN PMW	DATE 9/9/2020
		CHECKED	DATE 9/9/2020
		SCALE Not To Scale	A4
		PROJECT No 5.03.1	FIGURE No 173

DGDT-P.5.03.2.GPJ -> <Dmimgf> 9/9/2020 16:43 10.01.00.11 DatgelLab and H. Siku Tool - DGD | Ute: DGDT-P.5.03.2.2020-09-08 Pj: DGDT-DLST.5.03.1.2020-09-06



Geology Unit Legend

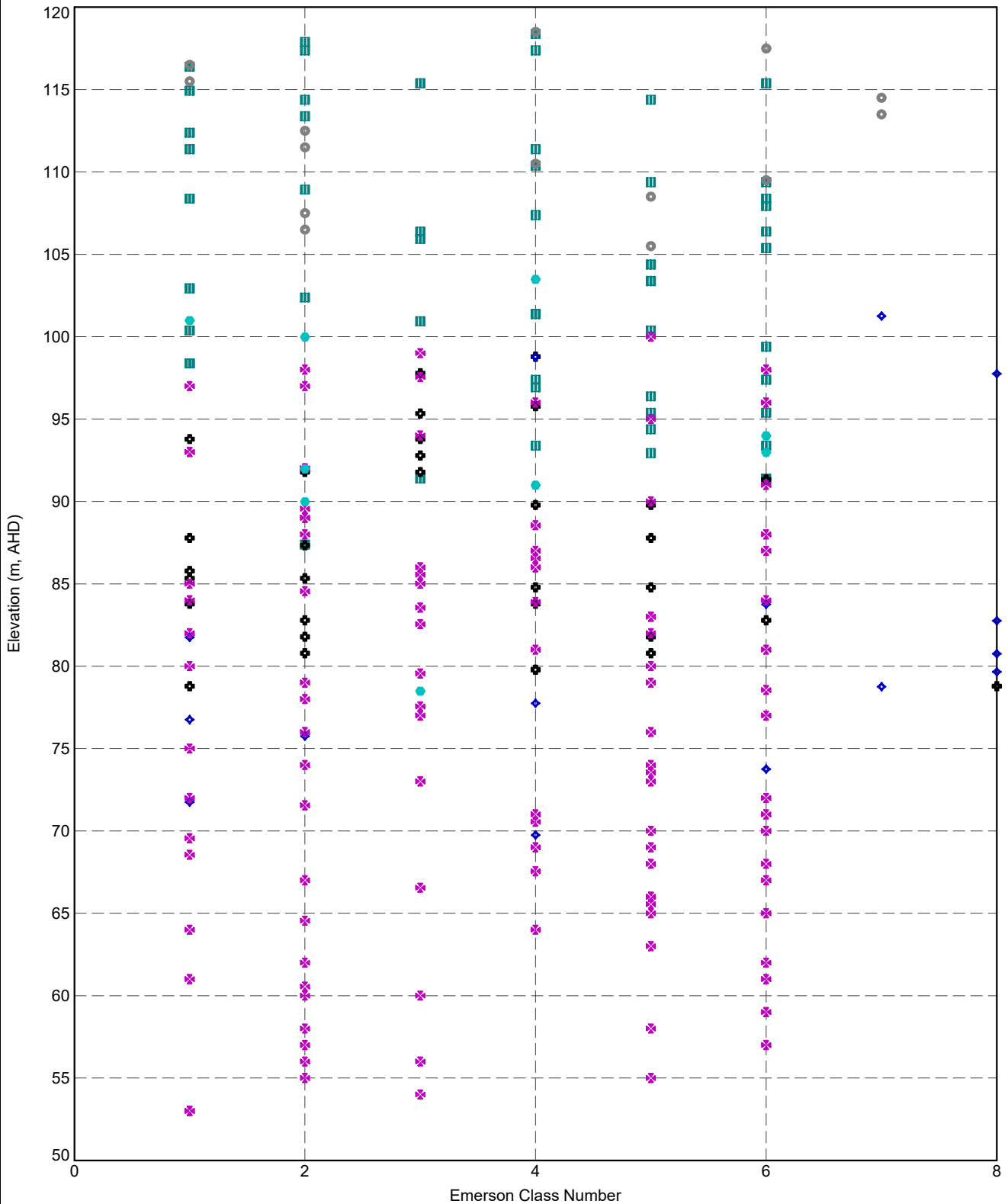
- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- ⊙ F1 - Alluvial soil (Granular)
- ⊠ F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- △ O(A) - Old Alluvium (Unweathered)
- ⊗ O(B) - Old Alluvium (Partially weathered)
- ⊕ O(C) - Old Alluvium (Distinctly weathered)
- G(VI) - Granite (rocks & associated soils) Residua...



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Emerson Crumb versus Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	174

DGDTP-5.03.1-UB-GLB-Graph-A-1-CS-EMERSON-CRUMB-VS-RL-BY-PTID-DGDTP-5.03.2-2020-09-09-PJ-Datgel Lab and in Situ Tool-DGDTP-5.03.2-2020-09-09-PJ-DGDTP-5.03.1-2020-09-05



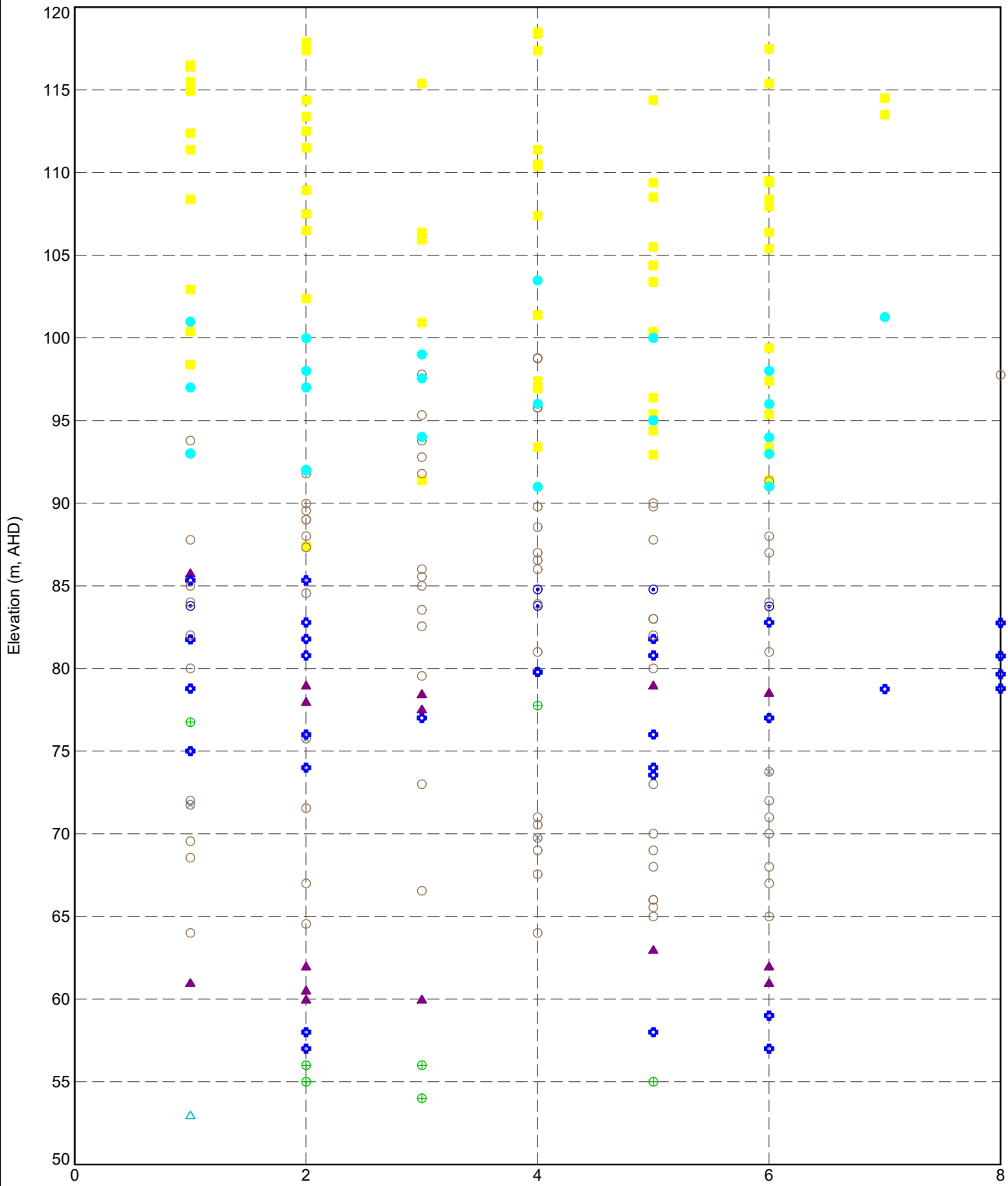
- PointID Legend**
- ST/1090A
 - ST/1090B/PRM
 - ST/1149A
 - ◆ ST/1149B/VST_PZW
 - ✕ ST/1162A/PZW
 - ST/1162B/VST_PZW



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Emerson Crumb versus Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	175

DGD1-P.5.03.2.GPJ - Drawing File >> 9/9/2020 16:43 10.01.00.11 Datgel Lab and In Situ Tool - DGD [Lib: DGD1-P.5.03.2.2020-09-09 PJ: DGD1-CLUST 5.03.1 2020-09-05]



Geology Unit Legend

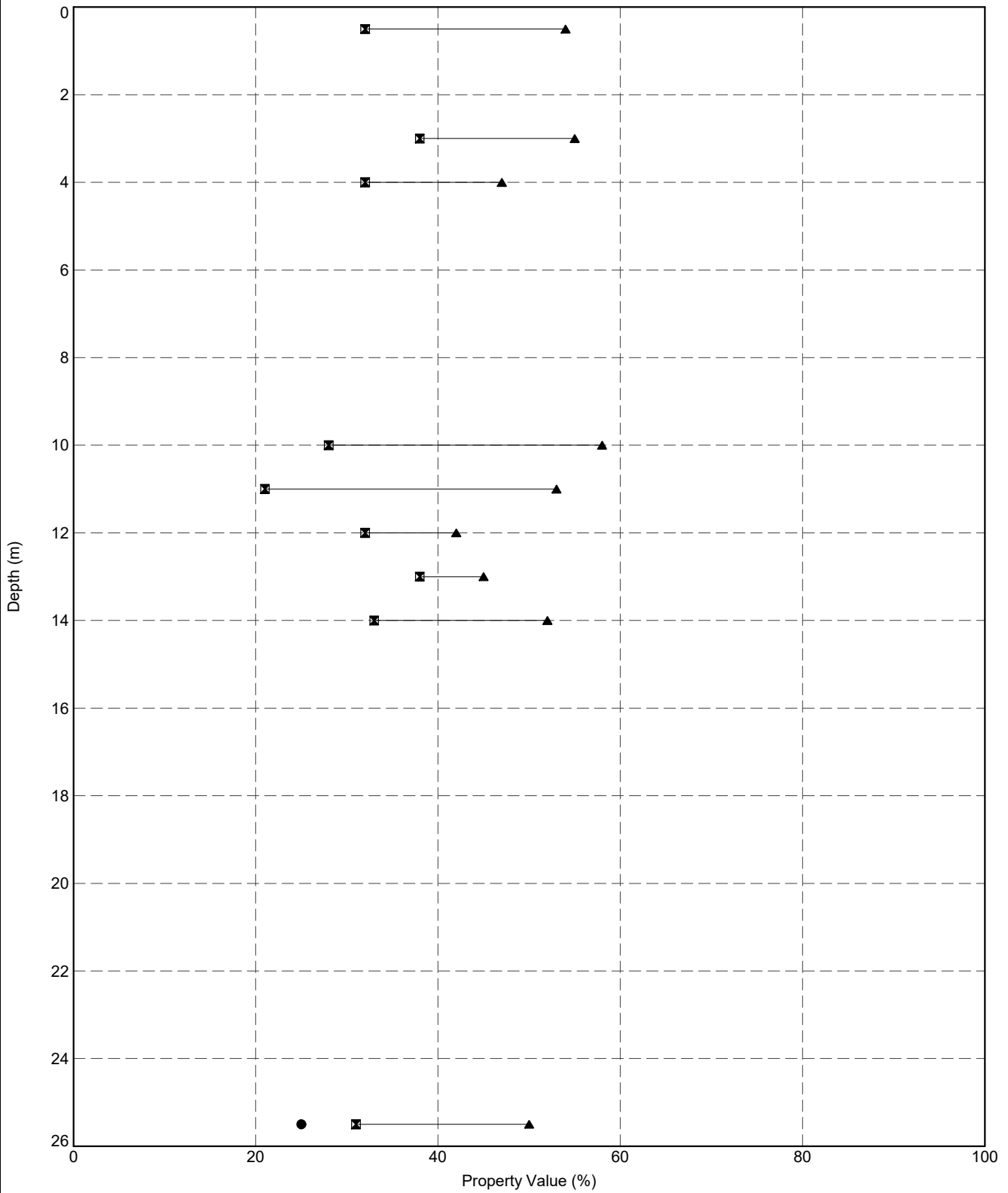
- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- F1 - Alluvial soil (Granular)
- ⊕ F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- △ O(A) - Old Alluvium (Unweathered)
- ⊗ O(B) - Old Alluvium (Partially weathered)
- ⊕ O(C) - Old Alluvium (Distinctly weathered)
- G(V) - Granite (rocks & associated soils) Residua...



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Emerson Crumb versus Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	176

DGD1-P.5.03.2.LIB.GLB_Graph A.L.CS.INDEX.PROPS.VS.DEPTH.DGD1-P.5.03.2.GPJ <<DrawingFiles>> 9/9/2020 16:44 10.01.00.11.Datgel.Lab.and.In.Sit.Tool-DGD.LIB.DGD1-P.5.03.2.2020-09-08.Plt.DGD1-DLST.5.03.1.2020-08-05



- Legend**
- Moisture Content
 - ☒ Plastic Limit
 - ▲ Liquid Limit
 - ★ Fines

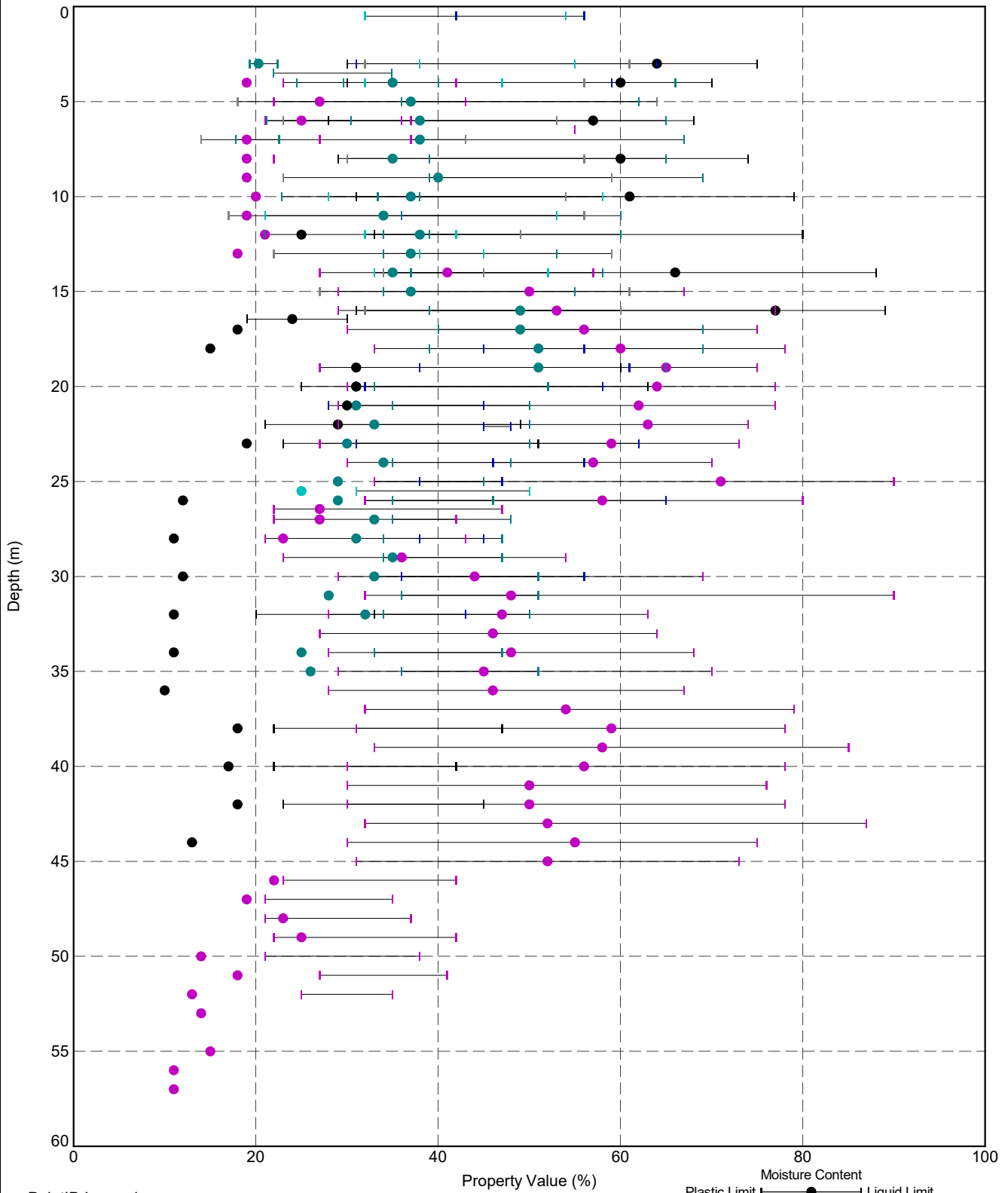


TITLE

Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Index Properties vs. Depth -
 ST/1162B/VST_PZW

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	177

DGDTP.5.03.1.LIB.GLB Graph A.L.CS.INDEX.PROPS.VS.DEPTH.BY.PTID.DGDTP.5.03.2.2020.09.09.Plt.DGDTP.5.03.1.2020.09.05



- PointID Legend**
- ST/1090A
 - ST/1090B/PRM
 - ◆ ST/1149A
 - ◆ ST/1149B/VST_PZW
 - ◆ ST/1162A/PZW
 - ST/1162B/VST_PZW

Moisture Content
Plastic Limit —●— Liquid Limit

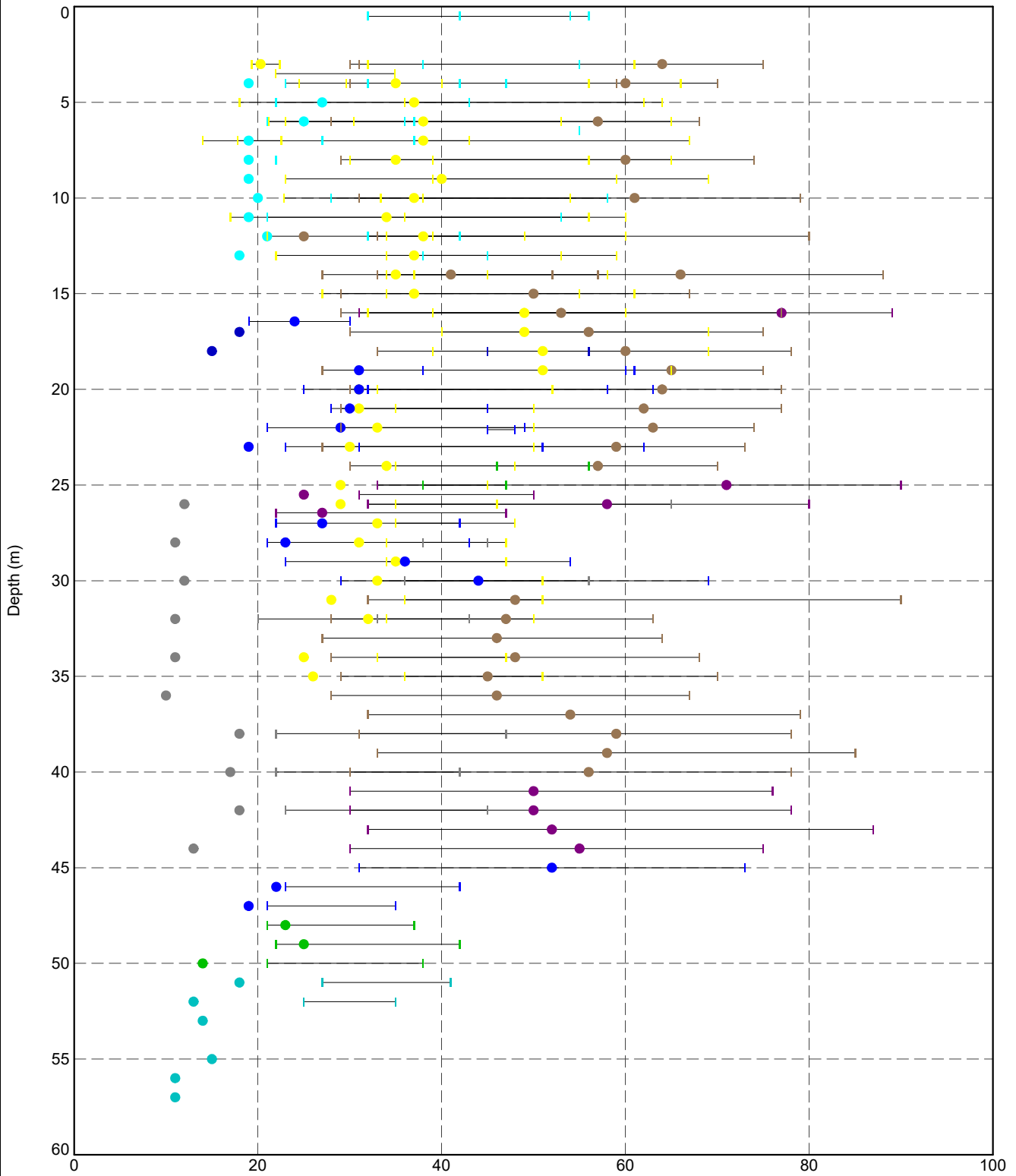


TITLE

Datgel
Engineer 1
Somewhere, World
Construction Project
Index Properties versus Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	178

DGDPT-P.5.03.2.LIB.GLB_Graph_A.LCS.INDEX.PROPS.VS.DEPTH.BY.UNIT.DGDPT-P.5.03.2.GPJ --DrawingFile--> 9/9/2020 16:44 10.01.00.11 Datgel Lab and In Situ Test - DGD Lib - DGDPT-P.5.03.2.2020-09-09.Pjt.DGDPT-CL-ST.5.03.1.2020-09-05



- Geology Unit Legend**
- FILL - BACKFILL
 - ▲ E - Estuarine (Transitional)
 - F1 - Alluvial soil (Granular)
 - ⊕ F2 - Alluvial soil (Non-granular)
 - M - Marine Clay
 - △ O(A) - Old Alluvium (Unweathered)
 - ⊗ O(B) - Old Alluvium (Partially weathered)
 - ⊕ O(C) - Old Alluvium (Distinctly weathered)

■ G(VI) - Granite (rocks & associated soils) Residua...

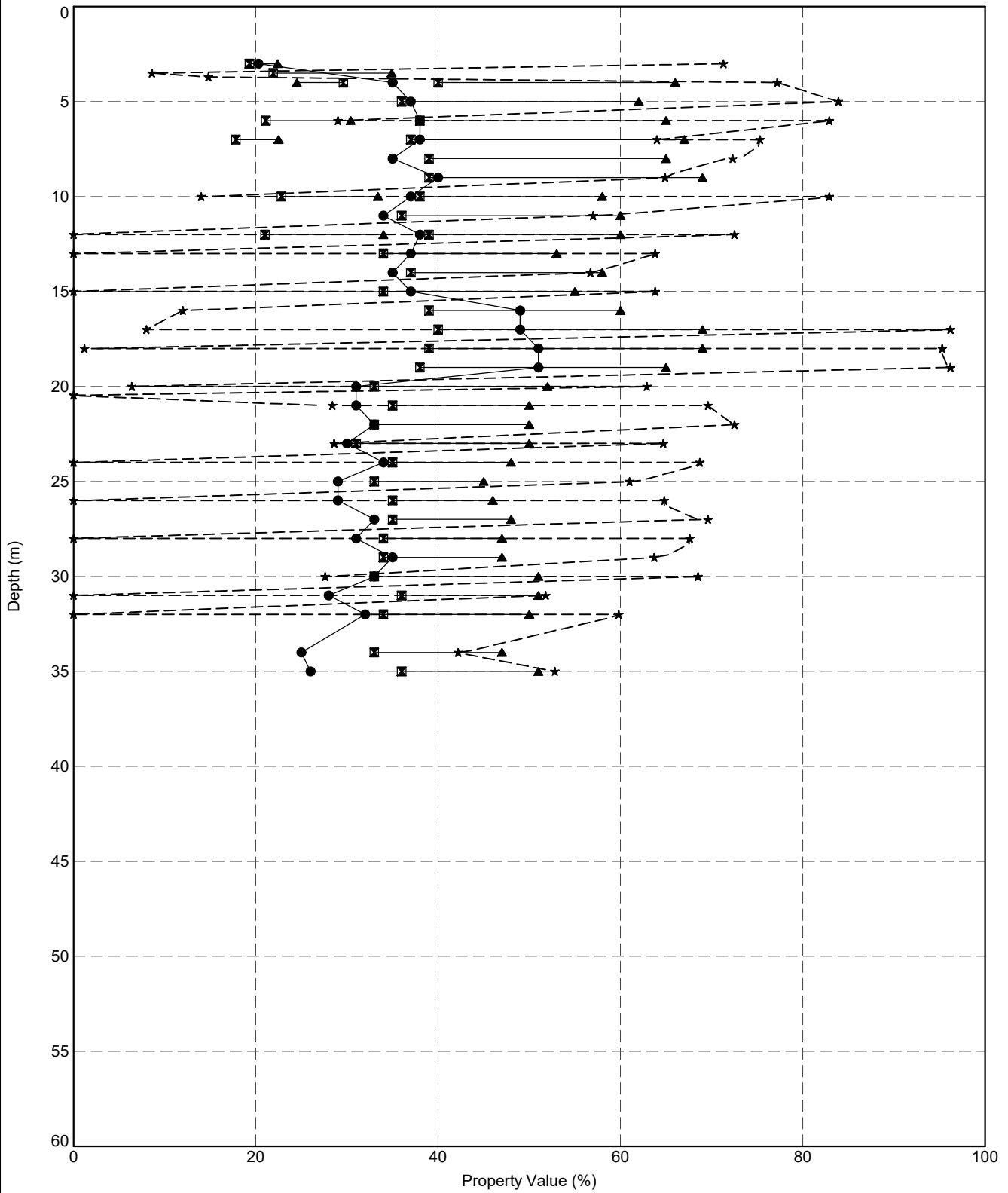
Moisture Content
 Plastic Limit —●— Liquid Limit



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Index Properties versus Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	179

DGDTP.5.03.2.LIB.GLB Graph A.L.CS.INDEX.PROPS.VS.DEPTH.PTID.PP.DGDTP.5.03.2.GPJ --DrawingFile--> 9/9/2020 16:44 10.01.00.11 Datgel Lab and In Situ Tool - DGD Lib: DGDTP.5.03.2.2020.09.09.PP.DGDTP.5.03.1.2020.09.05



- Legend
- Moisture Content
 - ☒ Plastic Limit
 - ▲ Liquid Limit
 - ★ Fines

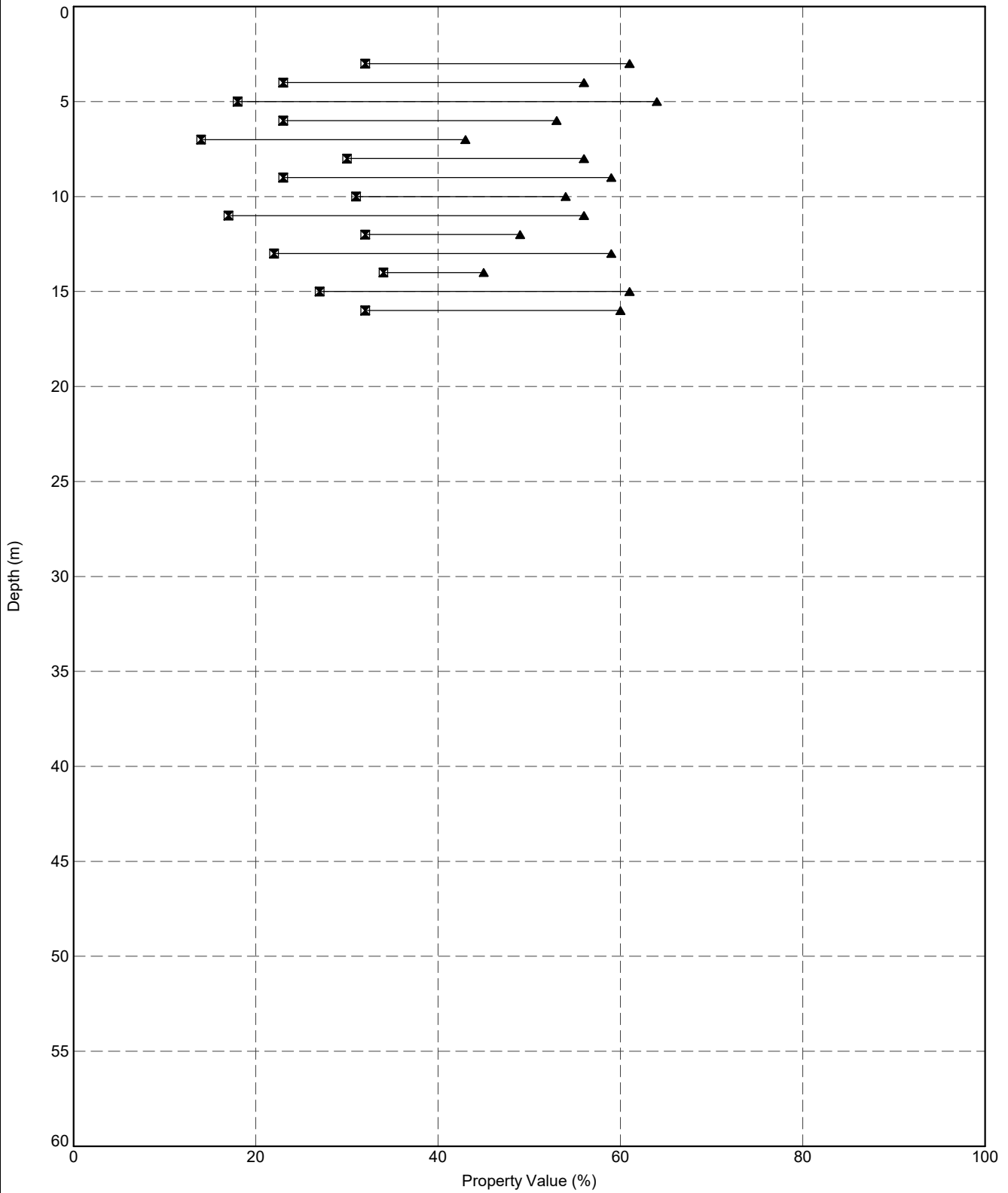


TITLE

Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Index Properties versus Depth - ST/1090A

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	180

DGD1-P.5.03.2.LIB.GLB Graph A.L.CS INDEX PROPS VS DEPTH.PTID PR DGD1-P.5.03.2.GPJ --DrawingFile--> 9/9/2020 16:44 10.01.00.11 Datgel Lab and In Situ Tool - DGD1 - DGD1-P.5.03.2.2020-09-09.Pjt DGD1-DL-ST 5.03.1 2020-09-05



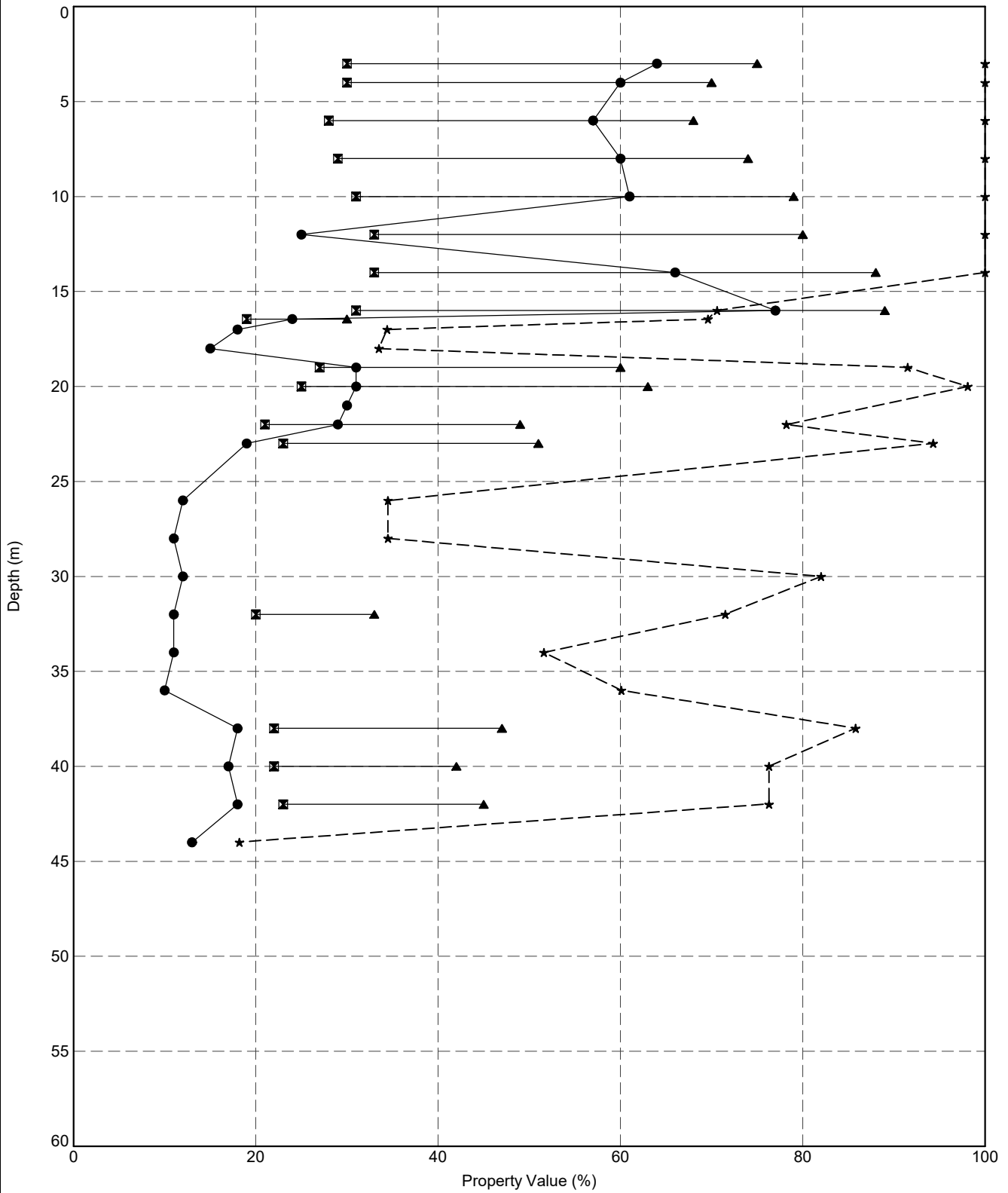
- Legend
- Moisture Content
 - ☒ Plastic Limit
 - ▲ Liquid Limit
 - ★ Fines



TITLE
Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Index Properties versus Depth - ST/1090B/PRM

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	180

DGD1-P.5.03.2.LIB.GLB Graph A.L.CS.INDEX.PROPS.VS.DEPTH.PTID.PP.DGD1-P.5.03.2.GPJ --DrawingFile--> 9/9/2020 16:44 10.01.00.11 Datgel Lab and In Situ Tool - DGD1 - DGD1-P.5.03.2.2020.09.09.PP.DGD1-CL-ST.5.03.1.2020.09.05



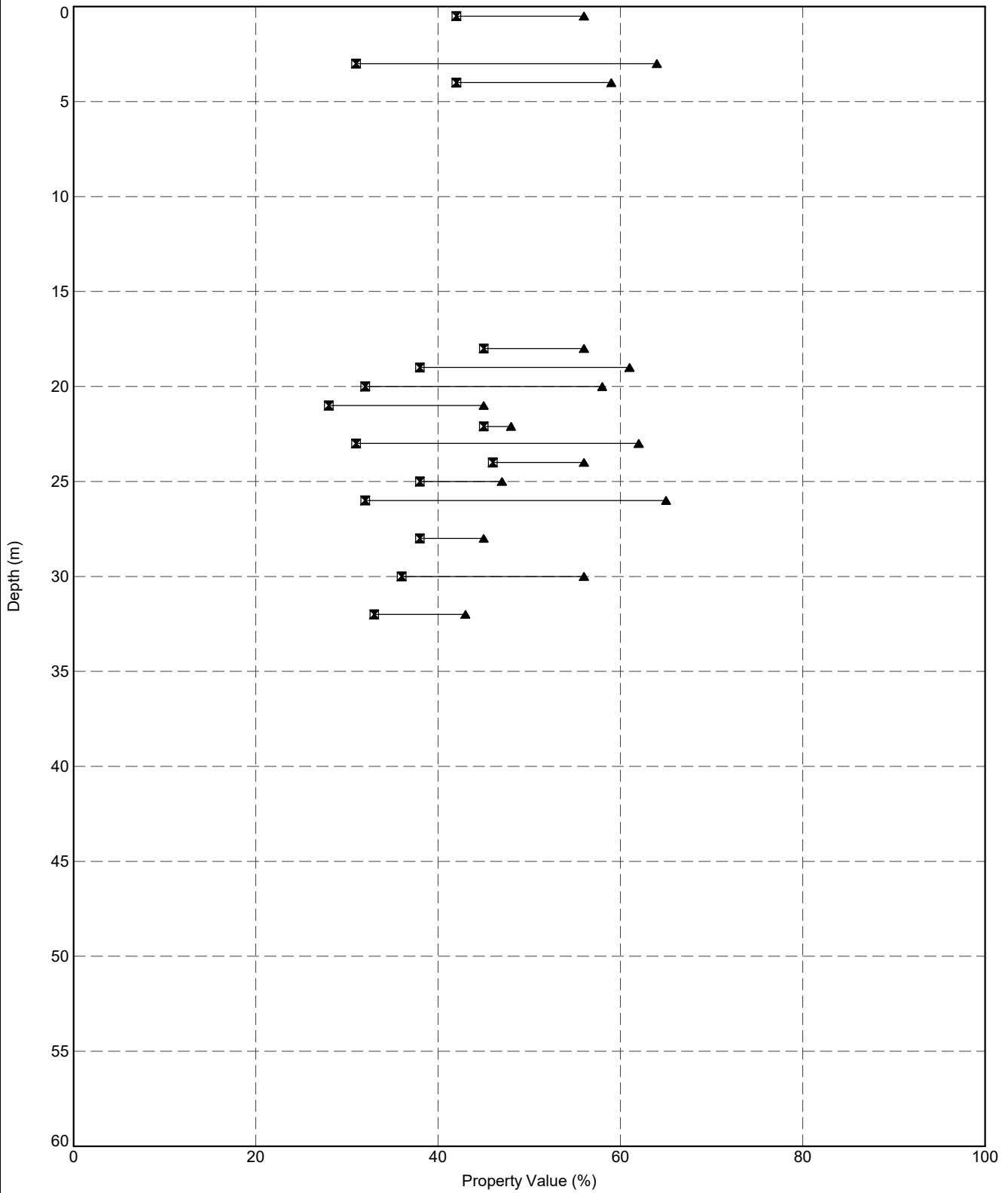
- Legend
- Moisture Content
 - ⊠ Plastic Limit
 - ▲ Liquid Limit
 - ★ Fines



TITLE
Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Index Properties versus Depth - ST/1149A

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	180

DGD1-P.5.03.2.LIB.GLB Graph A.L.CS.INDEX.PROPS.VS.DEPTH.PTID.PP.DGD1-P.5.03.2.GPJ --DrawingFile--> 9/9/2020 16:44 10.01.00.11 Datgel Lab and In Situ Tool - DGD1 - DGD1-P.5.03.2.2020.09.09.PP.DGD1-CL-ST.5.03.1.2020.09.05



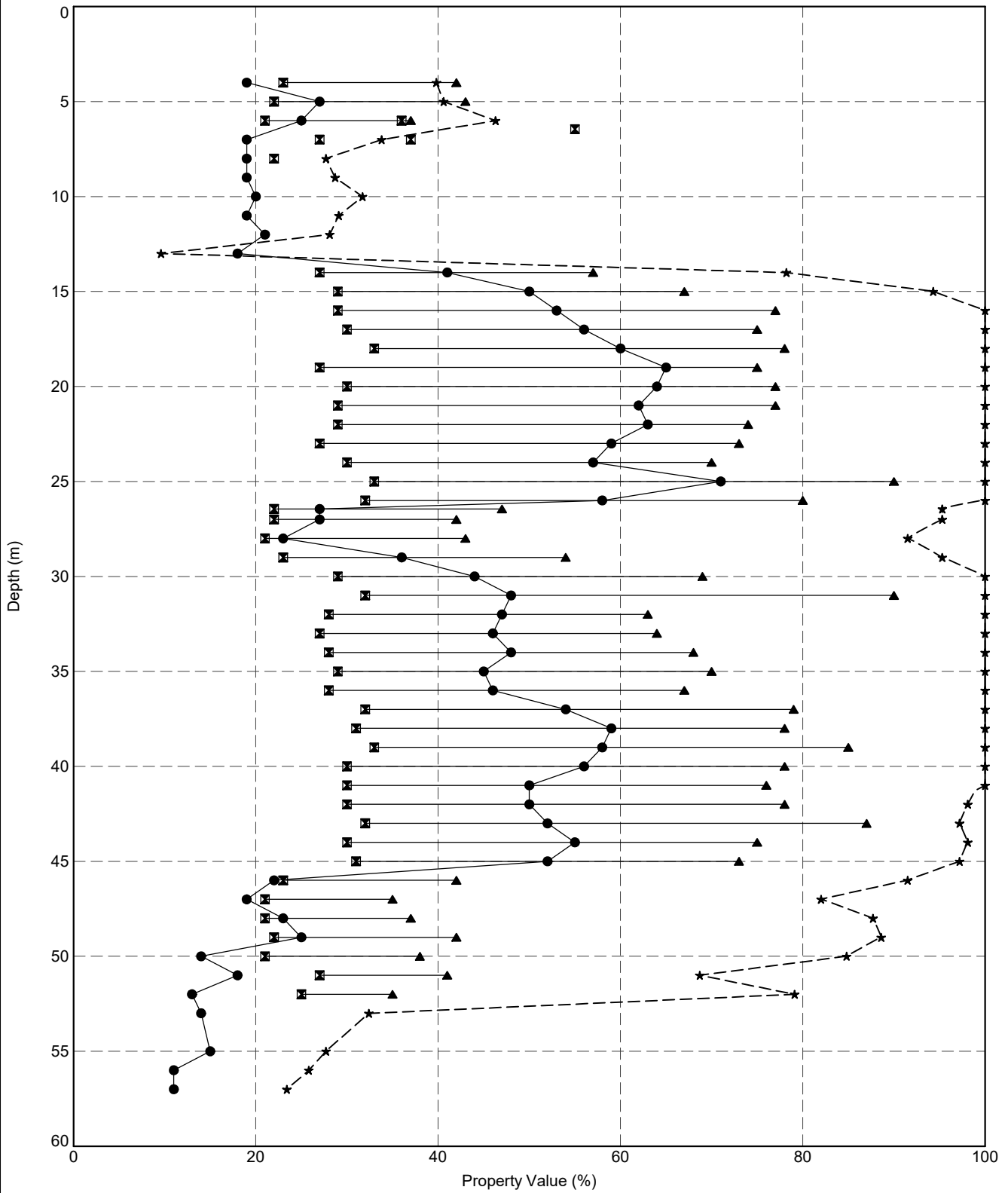
- Legend**
- Moisture Content
 - ☒ Plastic Limit
 - ▲ Liquid Limit
 - ★ Fines



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Index Properties versus Depth -
 ST/1149B/VST_PZW

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	180

DGD1-P.5.03.2.LIB.GLB Graph A.L.CS.INDEX.PROPS.VS.DEPTH.PTID.PP.DGD1-P.5.03.2.GPJ --DrawingFile--> 9/9/2020 16:44 10.01.00.11 Datgel Lab and In Situ Tool - DGD1 - DGD1-P.5.03.2.2020.09.09.PP.DGD1-CL.ST.5.03.1.2020.09.05



- Legend
- Moisture Content
 - ⊠ Plastic Limit
 - ▲ Liquid Limit
 - ★ Fines

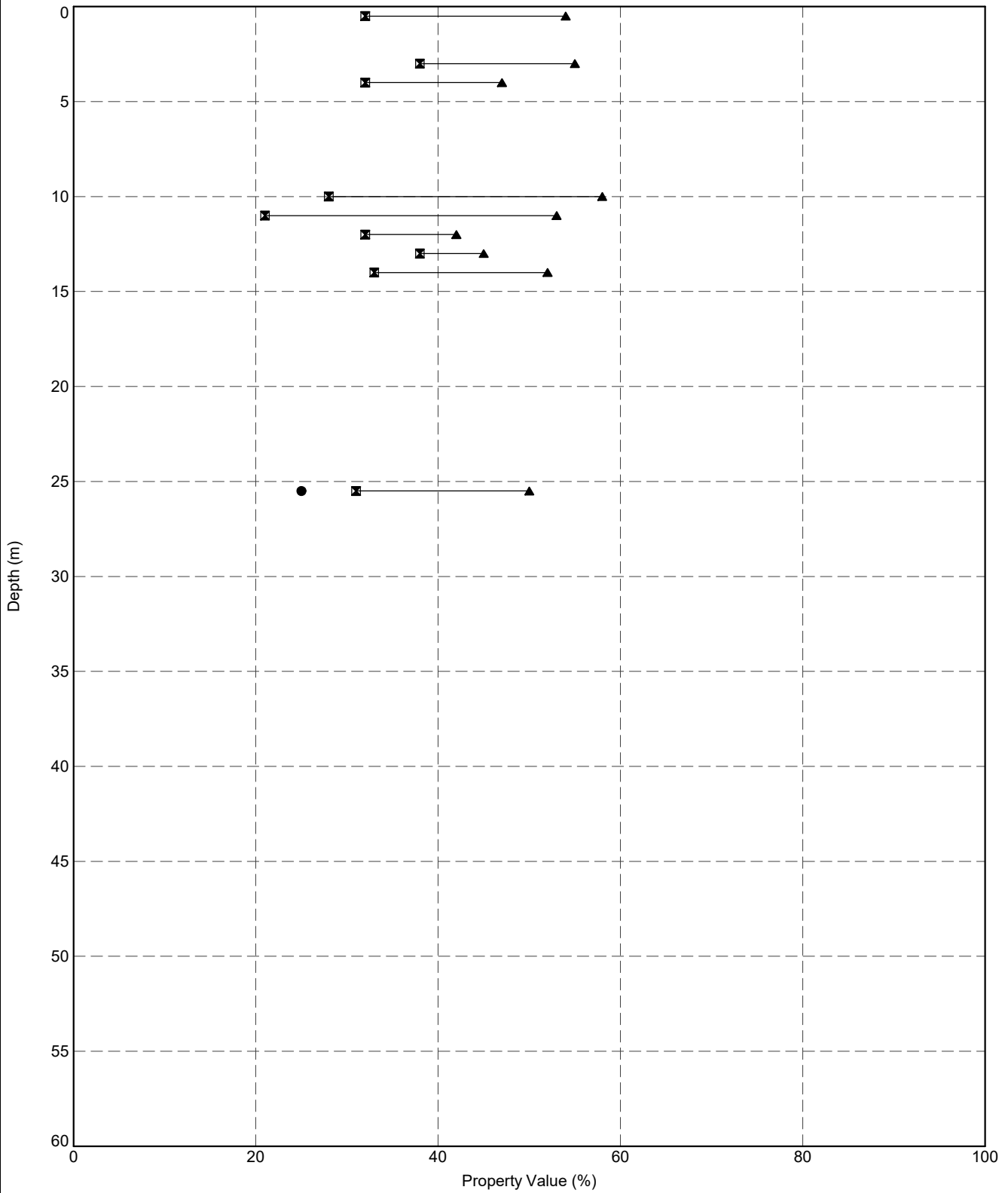


TITLE

Datgel
Engineer 1
Somewhere, World
Construction Project
Index Properties versus Depth -
ST/1162A/PZW

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	180

DGD1-P.5.03.2.LIB.GLB Graph A.L.CS.INDEX.PROPS.VS.DEPTH.PTID.PP.DGD1-P.5.03.2.GPJ --DrawingFile--> 9/9/2020 16:44 10.01.00.11 Datgel Lab and In Situ Tool - DGD1 Lib: DGD1-P.5.03.2.2020.09.09.PP.DGD1-CL.ST.5.03.1.2020.09.05



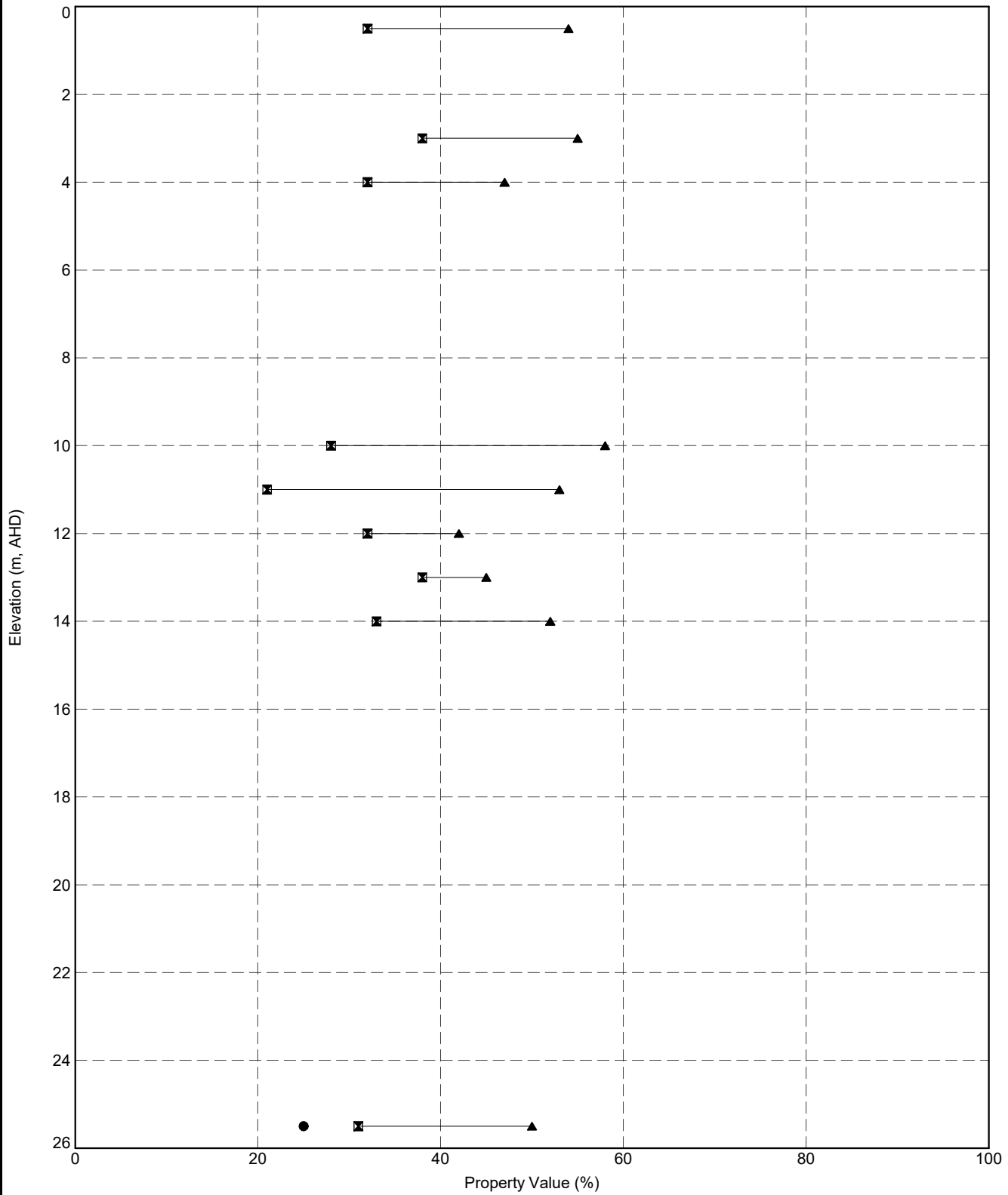
- Legend**
- Moisture Content
 - ☒ Plastic Limit
 - ▲ Liquid Limit
 - ★ Fines



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Index Properties versus Depth -
 ST/1162B/VST_PZW

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	180

DGDTP.5.03.1.LIB.GLB Graph A.L.CS.INDEX.PROPS.VS.RL.DGDTP.5.03.2.2020.09.08.Plt.DGDTP.DLST.5.03.1.2020.09.05
 <DrawingFiles> 9/9/2020 16:44 10.01.00.11 Datgel Lab and In Situ Tool - DGD [Lib: DGDTP.5.03.2.2020.09.08.Plt.DGDTP.DLST.5.03.1.2020.09.05]



- Legend
- Moisture Content
 - ☒ Plastic Limit
 - ▲ Liquid Limit
 - ★ Fines

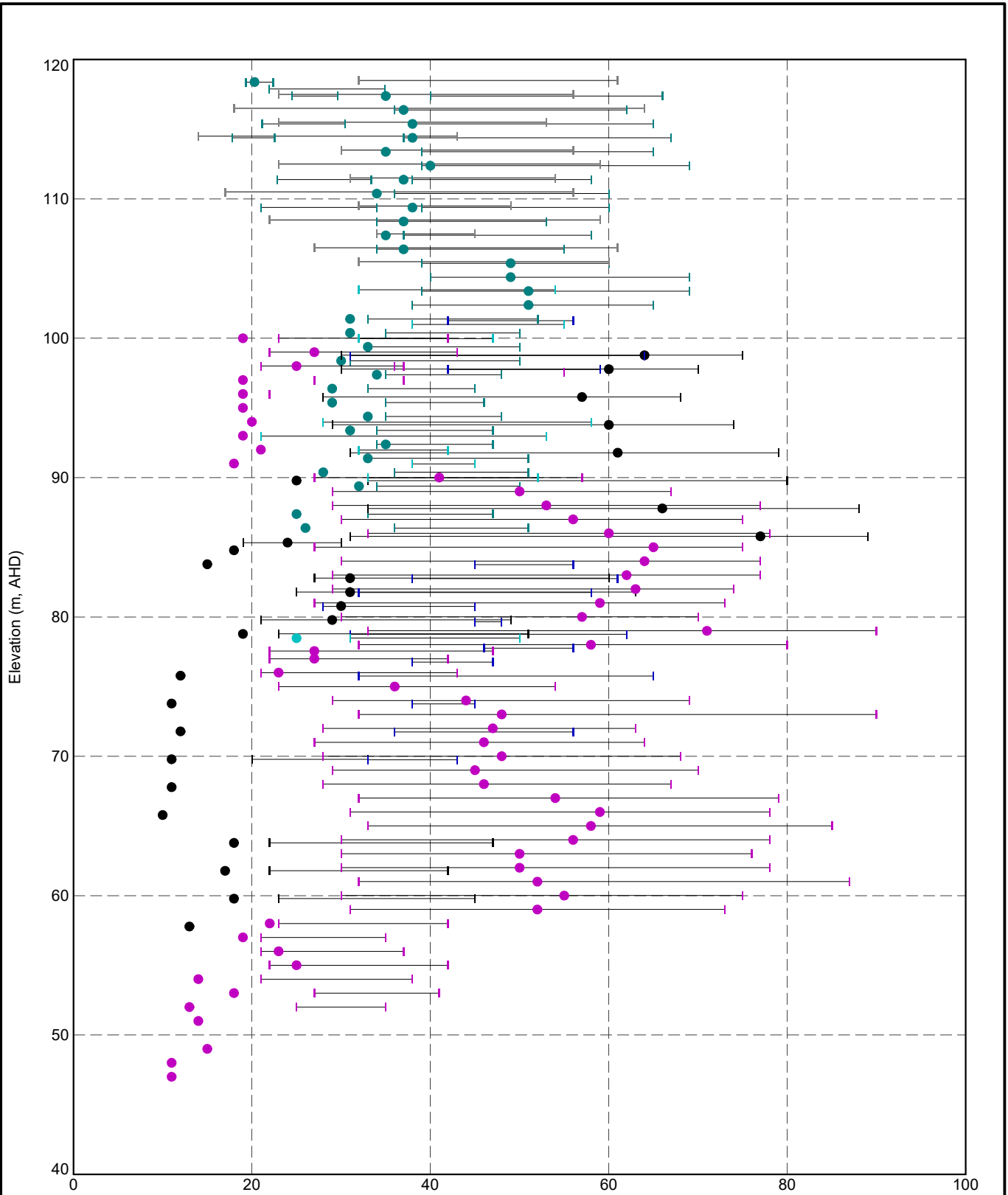


TITLE

Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Index Properties vs. Depth -
 ST/1162B/VST_PZW

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	181

D:\Projects\5.03.1\INDEX_PROPS_VS_ELEVATION\Drawings\Drawings\5.03.1\2020-09-05.DWG



- PointID Legend**
- ST/1090A
 - ST/1090B/PRM
 - ⊕ ST/1149A
 - ◆ ST/1149B/VST_PZW
 - ⊗ ST/1162A/PZW
 - ST/1162B/VST_PZW

Moisture Content
 Plastic Limit —●— Liquid Limit

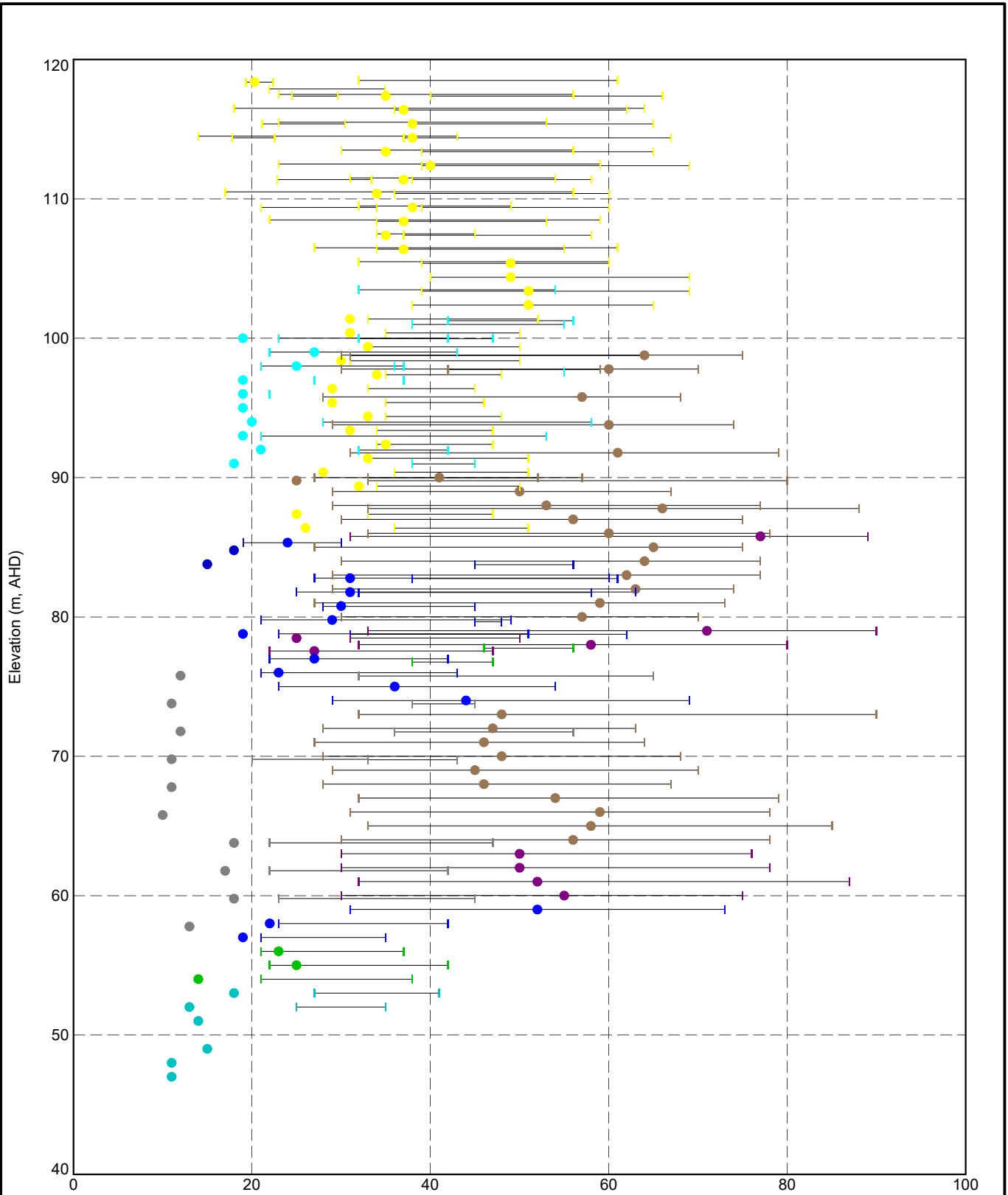


TITLE

Datgel
Engineer 1
Somewhere, World
Construction Project
Index Properties versus Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	182

DGDTP-5.03.2.LIB.GLB Graph A.L.CS.INDEX.PROPS.VS.RL.BY.UNIT.DGDTP-5.03.2.GPJ <<DrawingFile>> 9/9/2020 16:44:10.01.00.11 Datgel Lab and In-Situ Tool - DGD | Lib.DGDTP-5.03.2.2020-09-08 Proj.DGDTP-5.03.1.2020-09-05



Geology Unit Legend

- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- F1 - Alluvial soil (Granular)
- F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- △ O(A) - Old Alluvium (Unweathered)
- ⊗ O(B) - Old Alluvium (Partially weathered)
- ⊕ O(C) - Old Alluvium (Distinctly weathered)

■ G(VI) - Granite (rocks & associated soils) Residua...

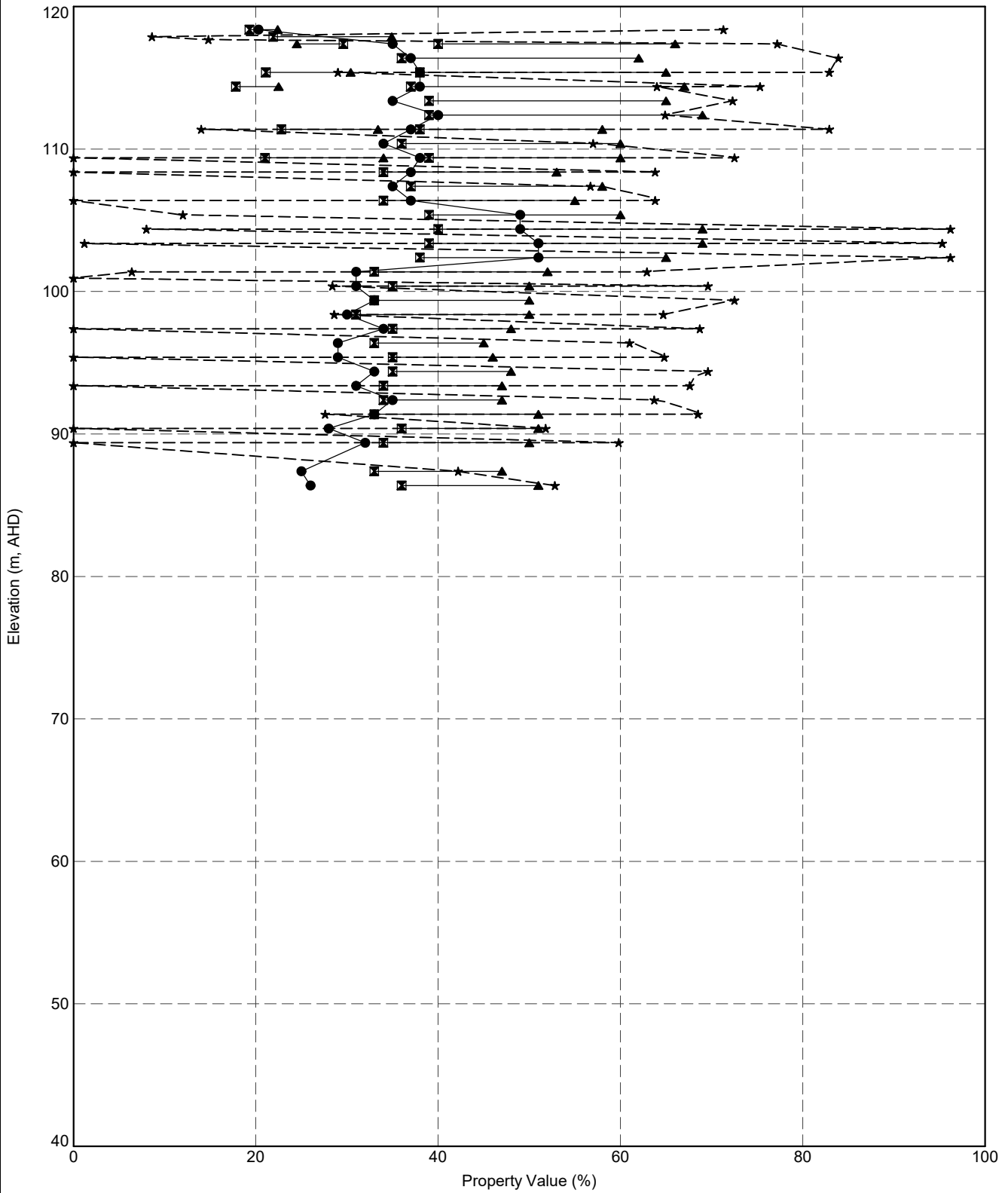
Moisture Content
 Plastic Limit —●— Liquid Limit



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Index Properties versus Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	183

D:\Projects\5.03.1\Index Properties\5.03.1_GPI -<DrawingFiles> 9/9/2020 16:44 10.01.00.11 Datgel Lab and In Situ Tool - DGD | Lib: DGDTP 5.03.2 2020-09-08 Proj: DGDTP-DIST 5.03.1 2020-09-05



Legend

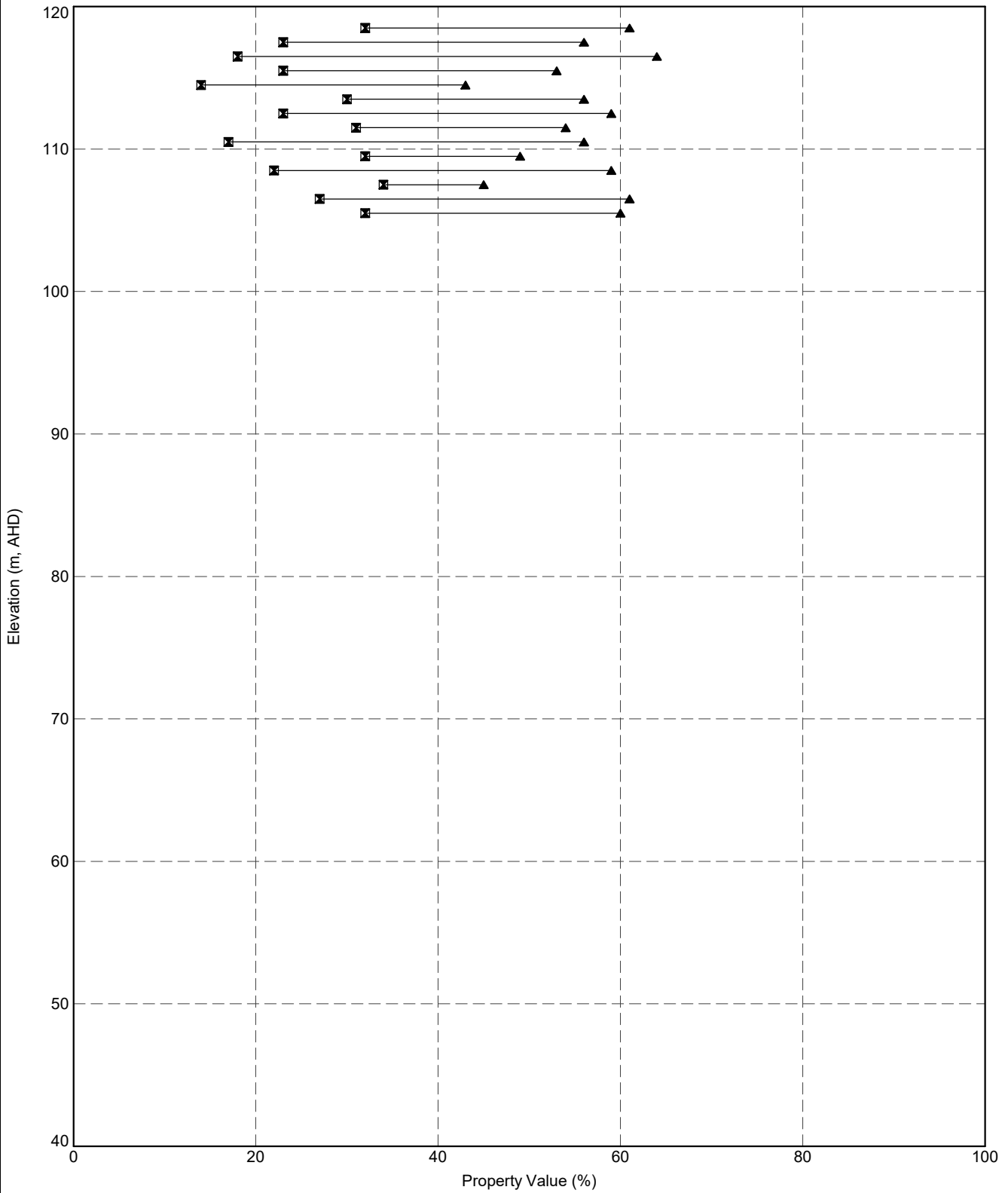
- Moisture Content
- ☒ Plastic Limit
- ▲ Liquid Limit
- ★ Fines



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Index Properties versus Elevation - ST/1090A

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	184

DGD1-P-5.03.1-UB-GLB-Graph A.L.CS.INDEX.PROPS.VS.RL.PTID.PP.DGDT-P-5.03.2.GPJ -<DrawingFile> 9/9/2020 16:44 10.01.00.11 Datgel Lab and In Situ Tool - DGD | Lib: DGD1-P-5.03.2.2020-09-08 Proj: DGD1-DLST.5.03.1.2020-09-05



Legend

- Moisture Content
- ☒ Plastic Limit
- ▲ Liquid Limit
- ★ Fines

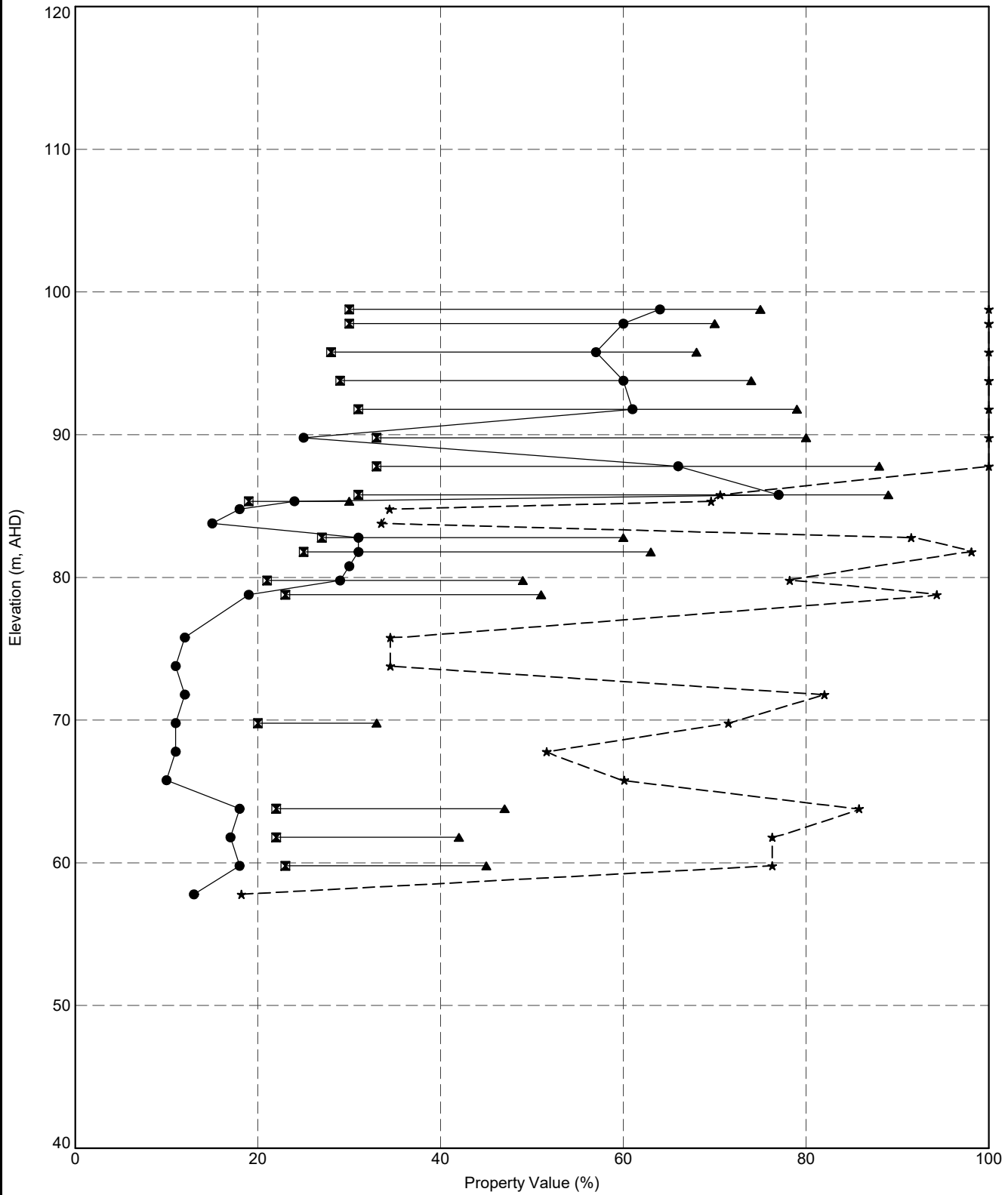


TITLE

Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Index Properties versus Elevation -
 ST/1090B/PRM

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	184

DGD1-P.5.03.2.LIB.GLB_Graph_A.LCS.INDEX.PROPS.VS.RL.PTID.PP.DGDT-P.5.03.2.GPJ -<DrawingFile> 9/9/2020 16:44 10.01.00.11 DatgelLab_and_In_Situ_Tool_DGD | Lib: DGDT-P.5.03.2.2020-09-08 Proj: DGDT-DLST.5.03.1.2020-09-05



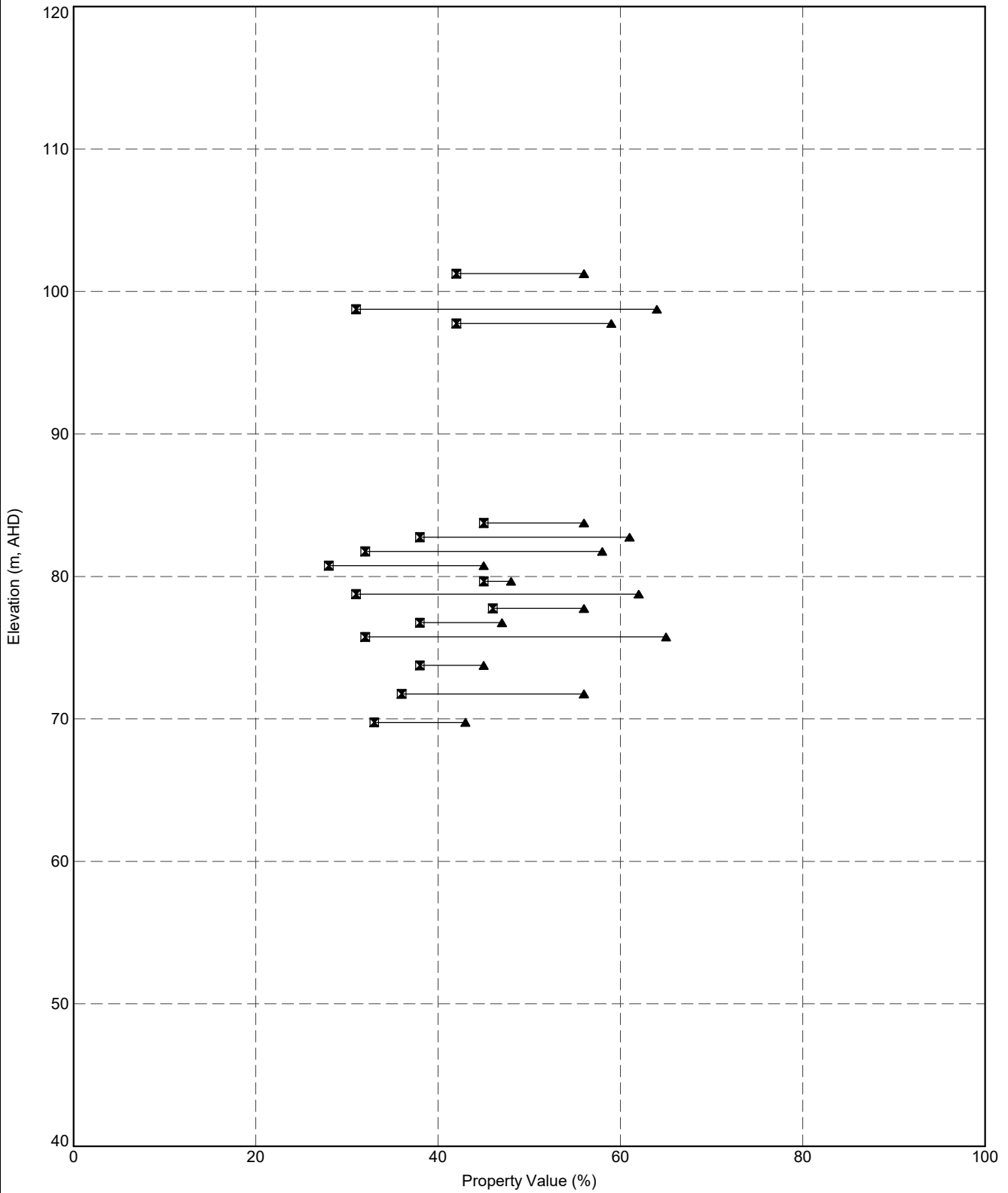
- Legend**
- Moisture Content
 - ☒ Plastic Limit
 - ▲ Liquid Limit
 - ★ Fines



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Index Properties versus Elevation - ST/1149A

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	184

DGD1-P.5.03.1-UB.GLB_Graph_A.L.CS.INDEX_PROPS_VS_RL.PTID.PP.DGDT-P.5.03.2.GPJ -<DrawingFile> 9/9/2020 16:44 10.01.00.11 Datgel Lab and In Situ Tool - DGD | Lib: DGD1-P.5.03.2.2020-09-08 Proj: DGD1-DLST.5.03.1.2020-09-05



- Legend
- Moisture Content
 - ☒ Plastic Limit
 - ▲ Liquid Limit
 - ★ Fines

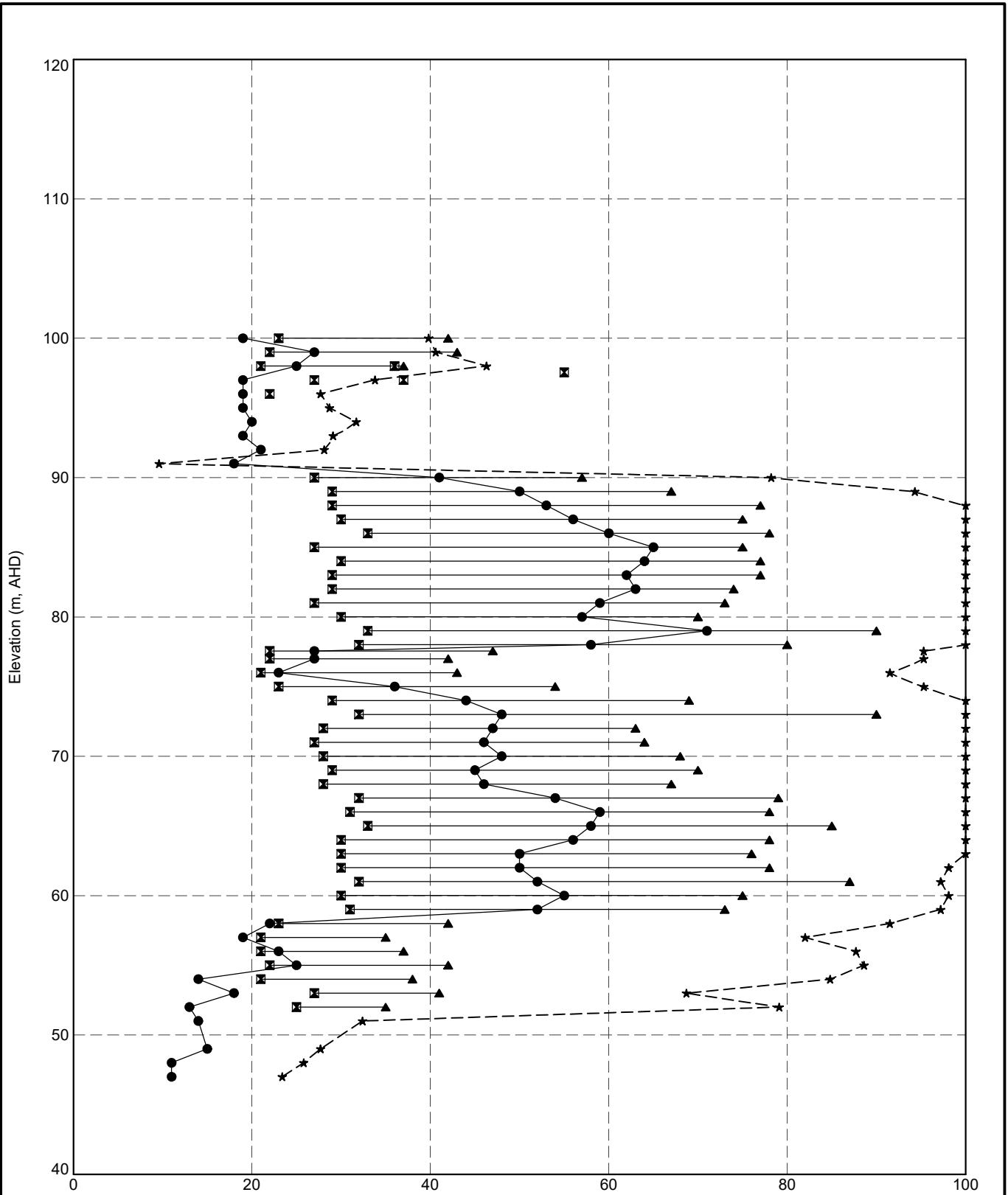


TITLE

Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Index Properties versus Elevation -
 ST/1149B/VST_PZW

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	184

D:\03\5.03.1\LIB\GLB_Graph_A\CS\INDEX_PROPS_VS_RL\PTID_PP_DGDT_P_5.03.2_GPI_<DrawingFile>_9/9/2020_16:44_10.01.00.11_DatgelLab_and_In_Situ\Tool_DGD | Lib: DGDT_P_5.03.2_20200908.Plt; DGDT-DLIST.5.03.1_20200905



Legend

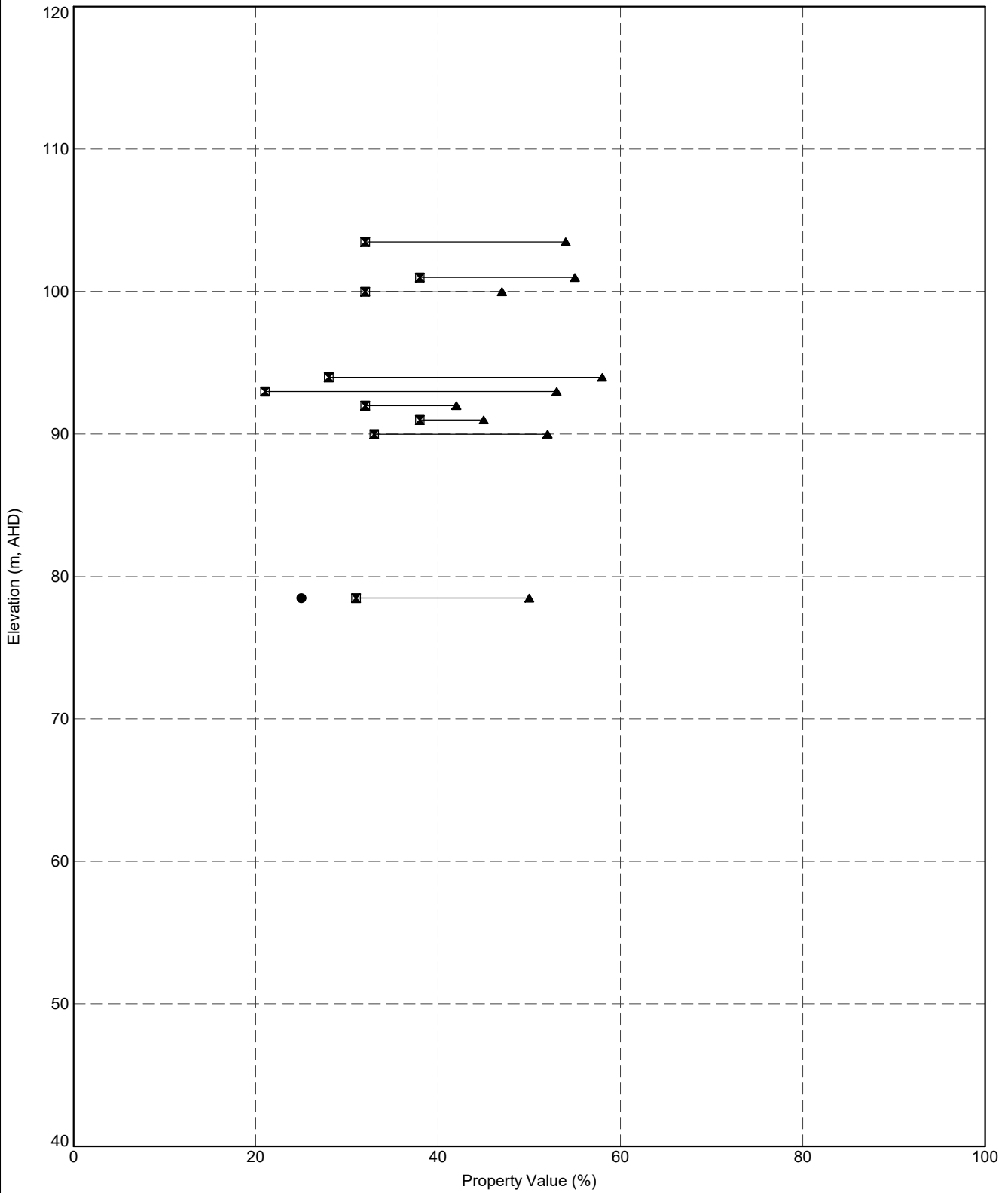
- Moisture Content
- ☒ Plastic Limit
- ▲ Liquid Limit
- ★ Fines



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Index Properties versus Elevation -
 ST/1162A/PZW

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	184

DGD1-P.5.03.1-UB.GLB_Graph A.L.CS.INDEX_PROPS_VS_RL.PTID.PP.DGDT-P.5.03.2.GPJ -<DrawingFile> 9/9/2020 16:44 10.01.00.11 Datgel Lab and In Situ Tool - DGD | Lib: DGD1-P.5.03.2.2020-09-08 Proj: DGD1-DLST.5.03.1.2020-09-05



- Legend
- Moisture Content
 - ☒ Plastic Limit
 - ▲ Liquid Limit
 - ★ Fines

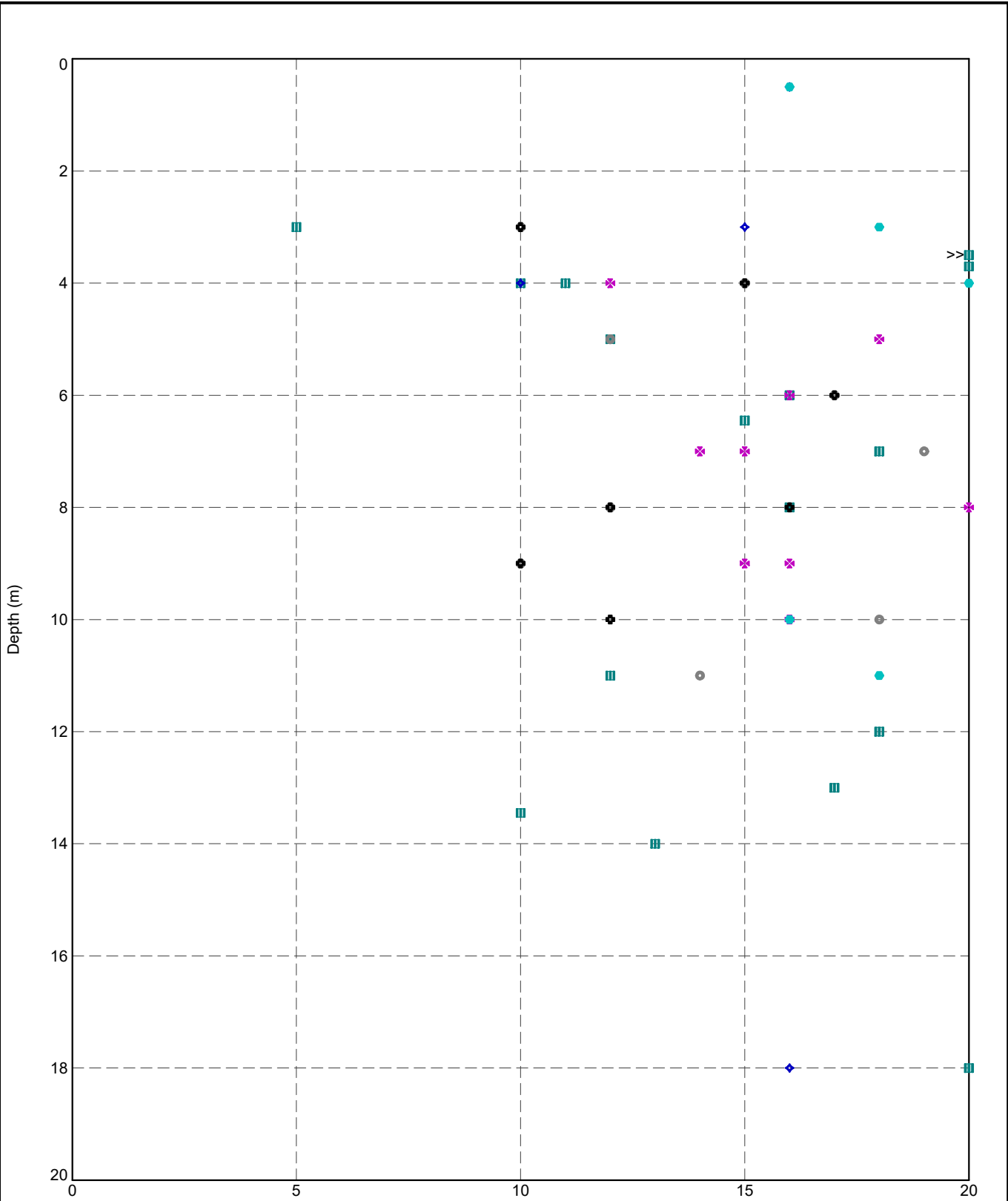


TITLE

Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Index Properties versus Elevation -
 ST/1162B/VST_PZW

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	184

D:\GDT-P.5.03.2\LIB\GLB_Graph_A.LCS\LINEAR SHRINKAGE VS DEPTH\BY PTID_DGDT-P.5.03.2\2020-09-08_Plot_DGDT-DLST.5.03.1.2020-09-05



- PointID Legend
- ST/1090A
 - ST/1090B/PRM
 - ⊕ ST/1149A
 - ◆ ST/1149B/VST_PZW
 - ✕ ST/1162A/PZW
 - ST/1162B/VST_PZW

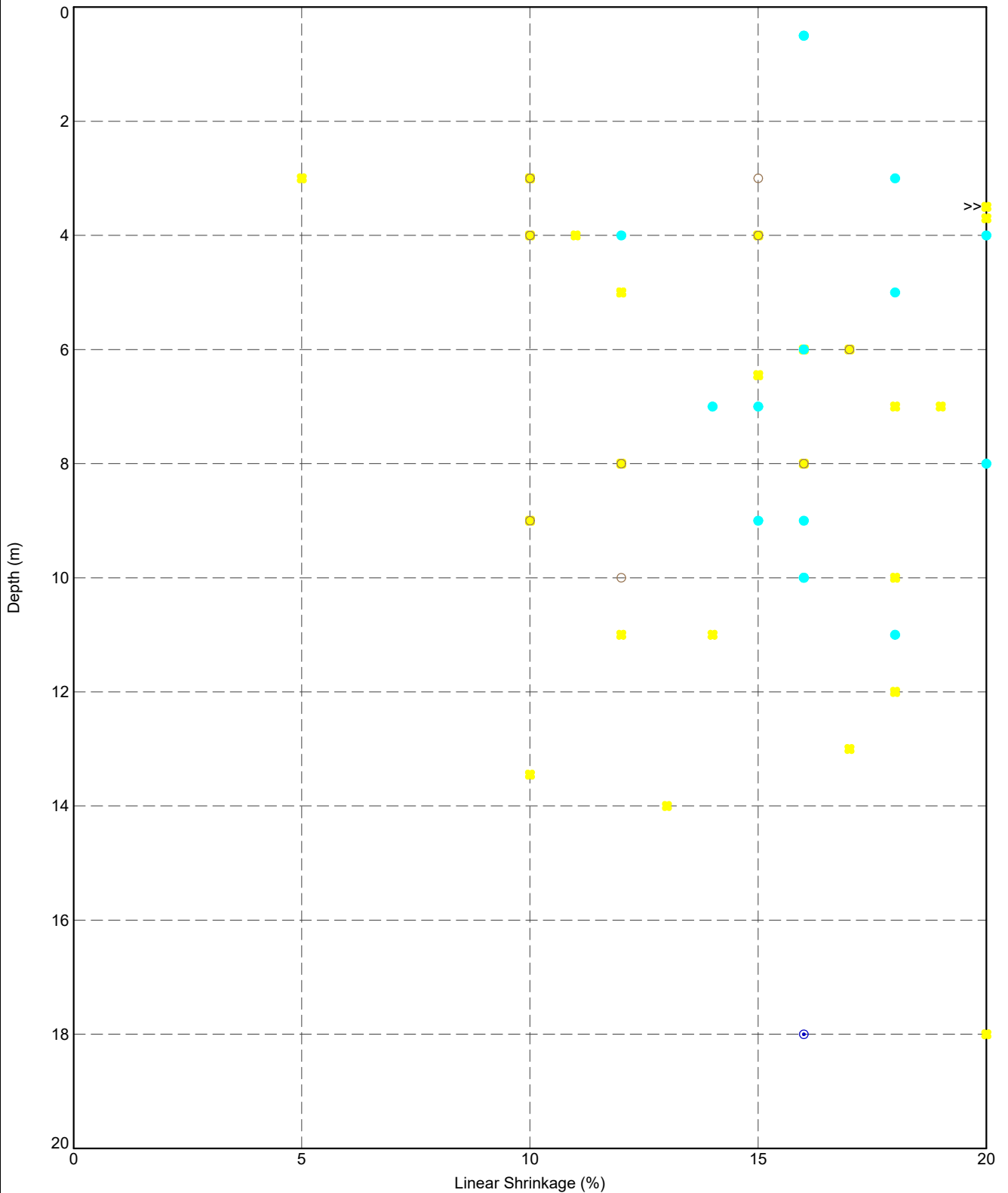


TITLE

Datgel
Engineer 1
Somewhere, World
Construction Project
Linear Shrinkage versus Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	185

DGDTP.5.03.2.LIB.GLB Graph A.LCS.LINEAR SHRINKAGE VS DEPTH BY UNIT DGDTP.5.03.2.GPJ --DrawingFile-- 9/9/2020 16:44 10.01.00.11 Datgel Lab and In Situ Tool - DGD Lib: DGDTP.5.03.2.2020-09-09 Proj: DGDTP.5.03.1.2020-09-05



Geology Unit Legend

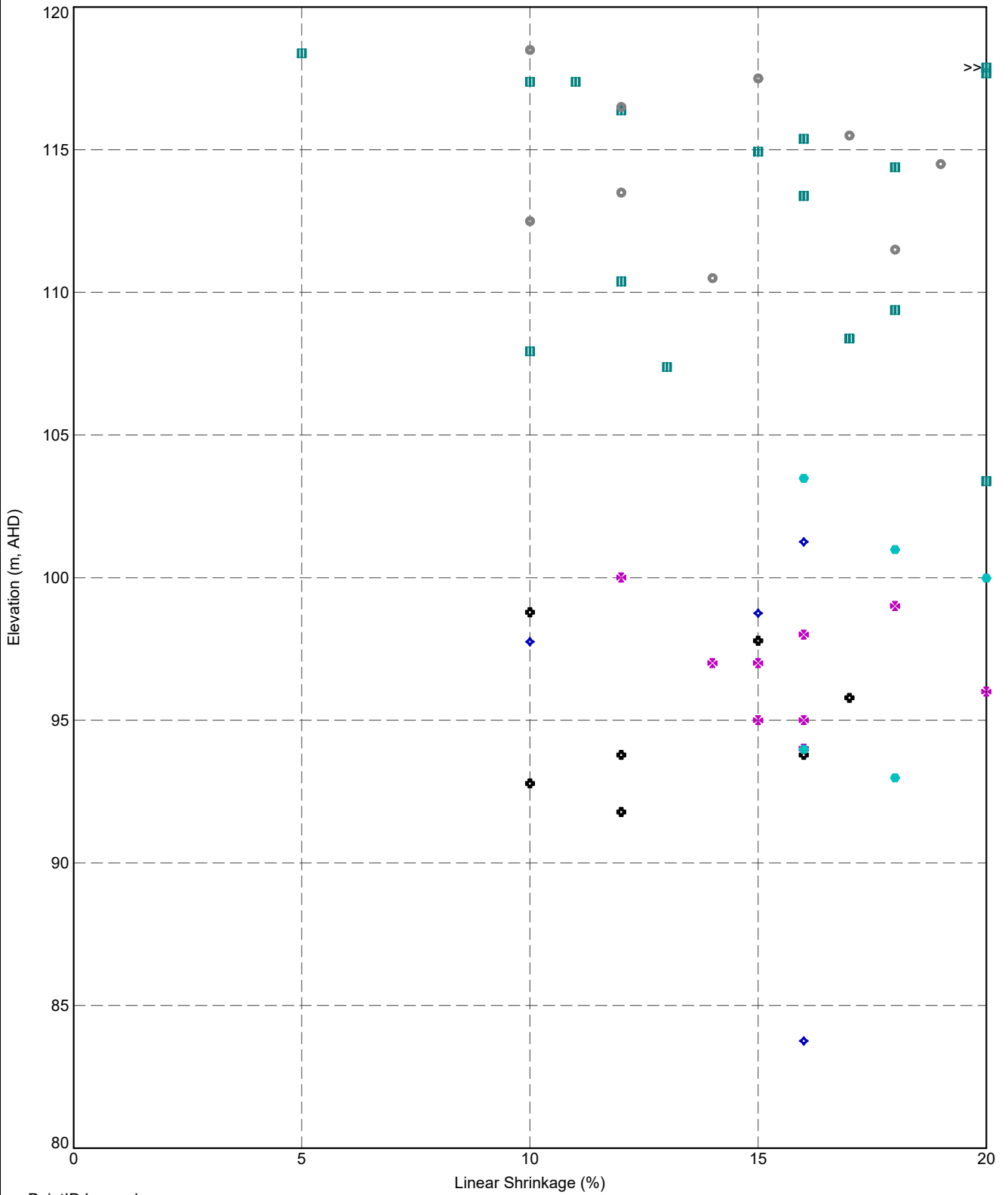
- FILL - BACKFILL
- F1 - Alluvial soil (Granular)
- M - Marine Clay
- G(VI) - Granite (rocks & associated soils) Residua...



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Linear Shrinkage versus Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	186

DGD1-P.5.03.1.LIB.GLB_Graph_A.LCS.LINEAR SHRINKAGE_VS_RL_BY_PTID_DGD1-P.5.03.2.GPJ -<DrawingFiles> 9/9/2020 16:44 10:01:00.11 DatgelLib and Its Sub_Tools_DGD | Lib: DGD1-P.5.03.2.2020-08-08 Pj; DGD1-DLST5.05.1.2020-08-05



- PointID Legend**
- ST/1090A
 - ST/1090B/PRM
 - ⊕ ST/1149A
 - ◆ ST/1149B/VST_PZW
 - ✕ ST/1162A/PZW
 - ST/1162B/VST_PZW



TITLE

Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Linear Shrinkage versus Elevation

DRAWN **PMW**

DATE **9/9/2020**

CHECKED

DATE **9/9/2020**

SCALE

Not To Scale

A4

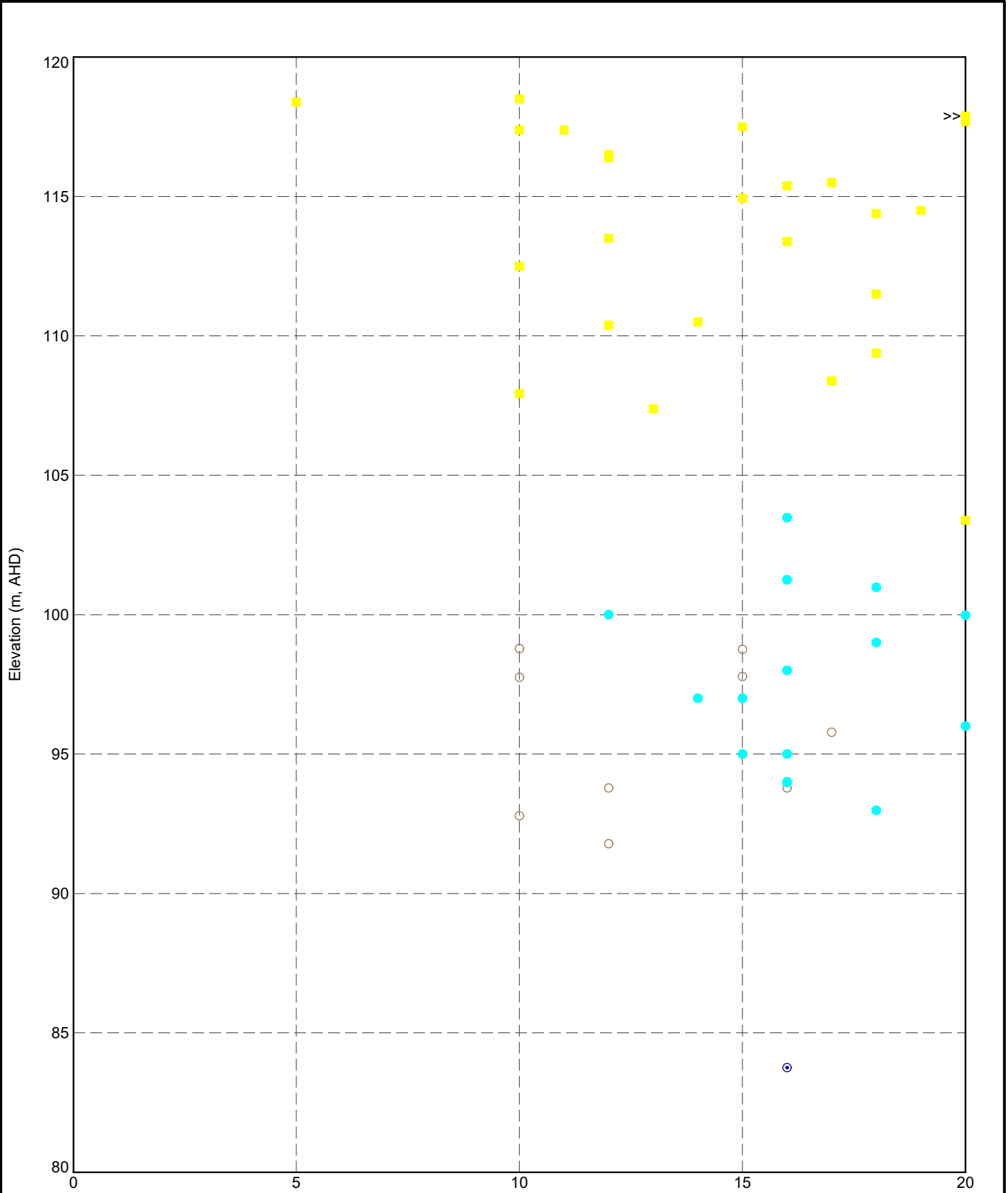
PROJECT No

5.03.1

FIGURE No

187

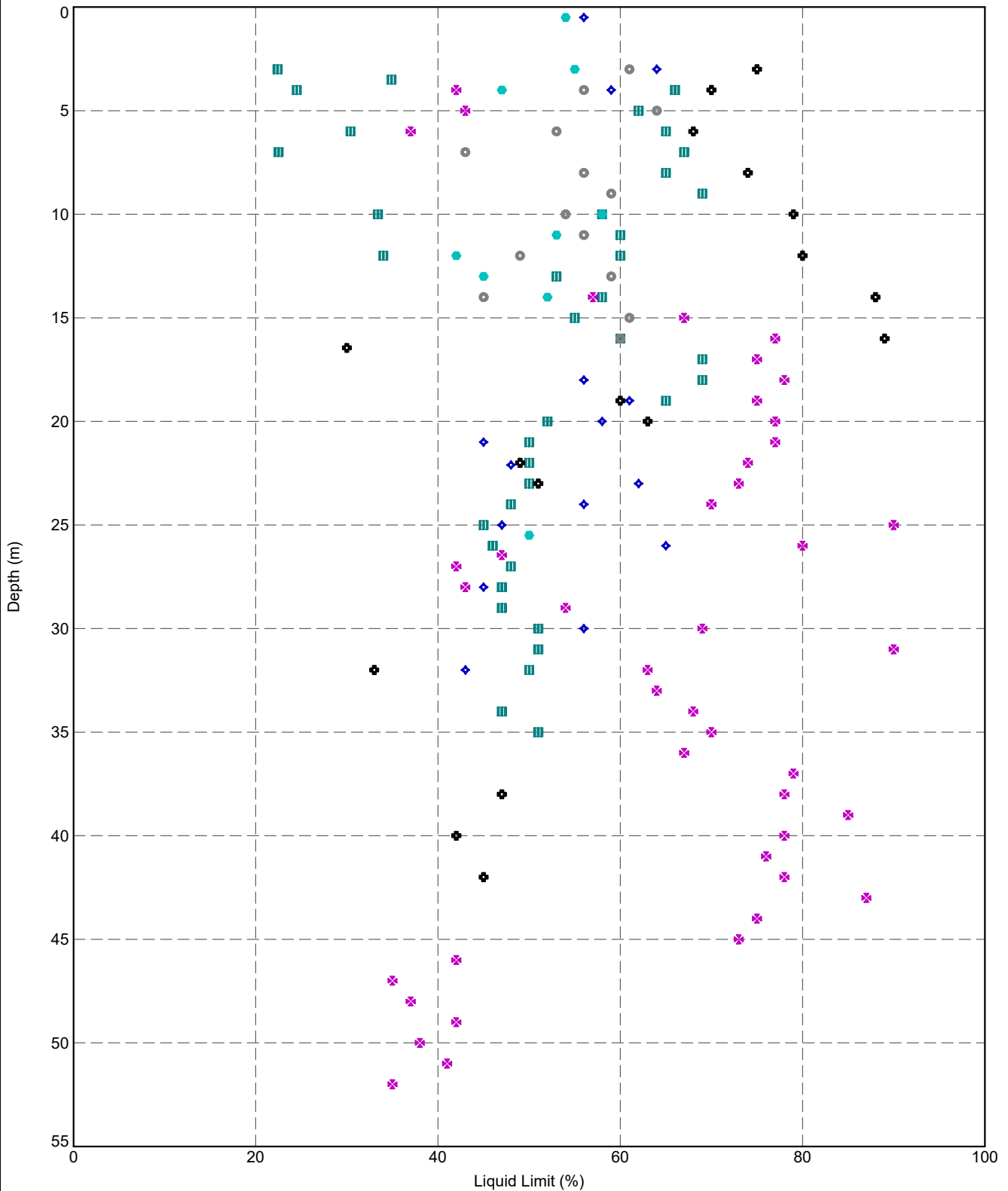
DGD1-P.5.03.1.LIB.GLB Graph A1.CS.LINEAR SHRINKAGE.VS.RL.BY UNIT DGD1-P.5.03.2.GPJ -<DrawingFile> 9/9/2020 16:44 10.01.00.11 Datgel Lab and In Situ Tool - DGD1 | Lib: DGD1-P.5.03.2.2020-09-08 Proj: DGD1-DIST.5.03.1.2020-09-05



Geology Unit Legend
 ● FILL - BACKFILL
 ⊙ F1 - Alluvial soil (Granular)
 ○ M - Marine Clay
 ■ G(VI) - Granite (rocks & associated soils) Residua...

	TITLE Datgel Engineer 1 Somewhere, World Construction Project Linear Shrinkage versus Elevation	DRAWN PMW	DATE 9/9/2020
		CHECKED	DATE 9/9/2020
		SCALE Not To Scale	A4
		PROJECT No 5.03.1	FIGURE No 188

DGD1-P.5.03.1.LIB.GLB_Graph_A.LCS.LIQUID_LIMIT_VS_DEPTH_BY_PTID_DGD1-P.5.03.2.2020-09-08 PtJ_DGD1-DLST5.03.1.2020-09-05



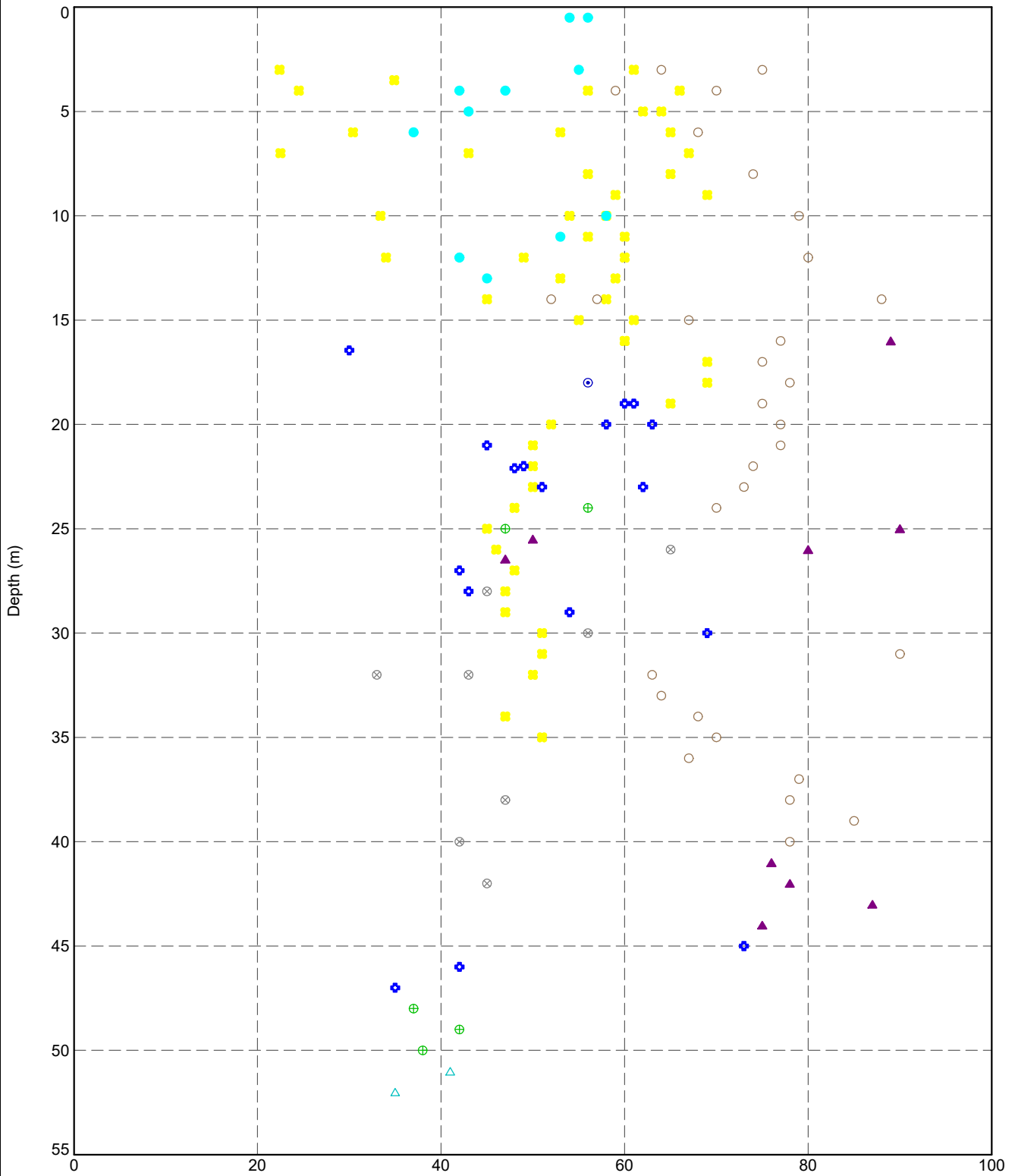
- PointID Legend**
- ST/1090A
 - ST/1090B/PRM
 - ⊕ ST/1149A
 - ◆ ST/1149B/VST_PZW
 - ⊗ ST/1162A/PZW
 - ST/1162B/VST_PZW



TITLE
Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Liquid Limit versus Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	189

DGD1-P.5.03.1.LIB.GLB_Graph_A.LCS.LIQUID.LIMIT.VS.DEPTH.BY.UNIT.DGD1-P.5.03.2.GPJ -<DrawingFile> 9/9/2020 16:44 10:01:00.11 Datgel Lab and In Situ Tool - DGD | Lib: DGD1-P.5.03.2.2020-09-08 Proj: DGD1-DIST.5.03.1.2020-09-05



Geology Unit Legend

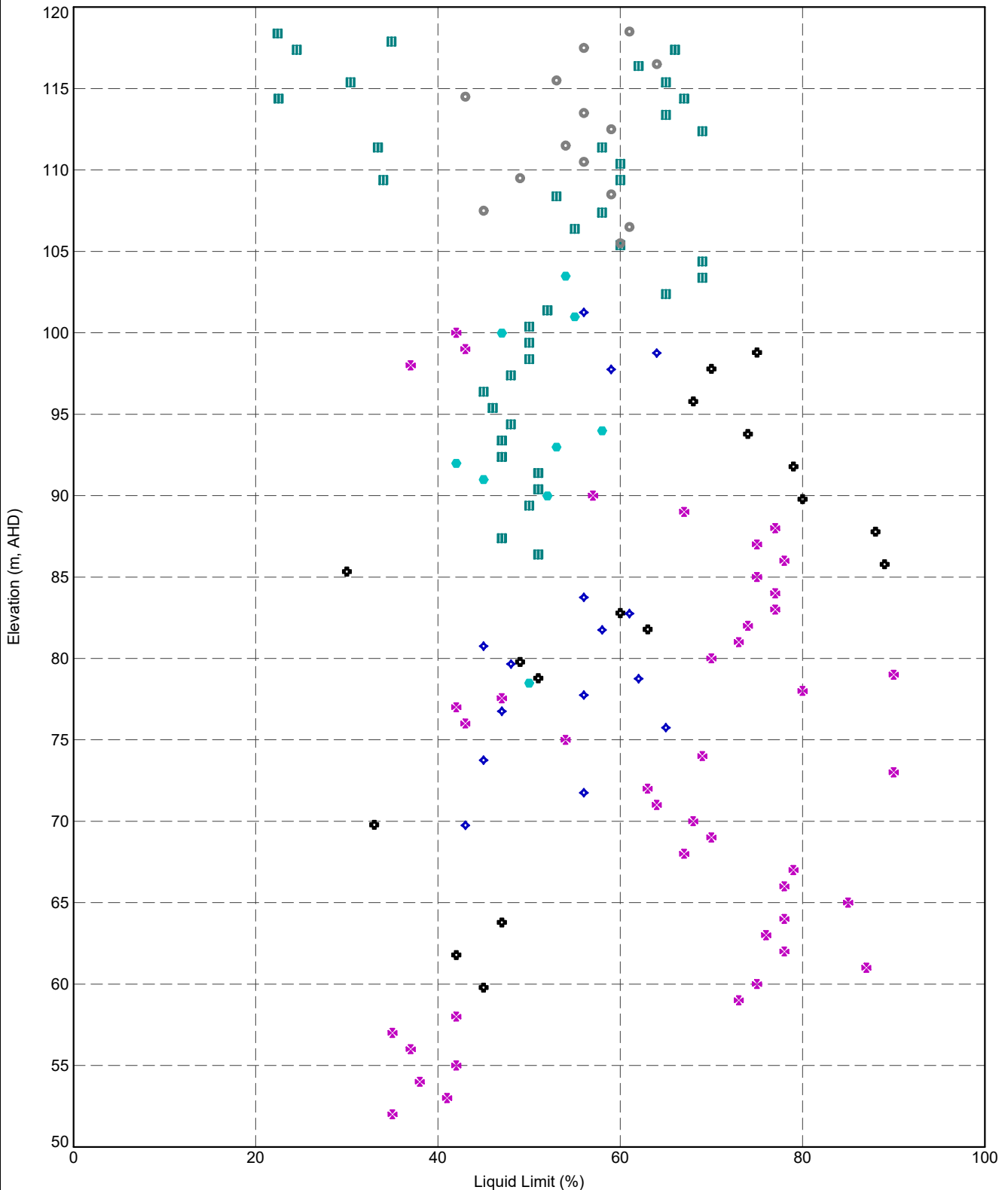
- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- ⊙ F1 - Alluvial soil (Granular)
- ⊕ F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- △ O(A) - Old Alluvium (Unweathered)
- ⊗ O(B) - Old Alluvium (Partially weathered)
- ⊕ O(C) - Old Alluvium (Distinctly weathered)
- G(VI) - Granite (rocks & associated soils) Residua...



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Liquid Limit versus Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	190

DGD1-P-5.03.2-UB.GLB Graph A.LCS.LIQUID LIMIT VS PL BY FTID DGD1-P-5.03.2.GPJ -> Drawing#> 9/9/2020 18:44 1001.001.1 Datgel Lab and In Situ Tool - DGD [Lib-DGD1-P-5.03.2-2020-09-09 Plj-DGD1-CLST-5.03.1-2020-09-05



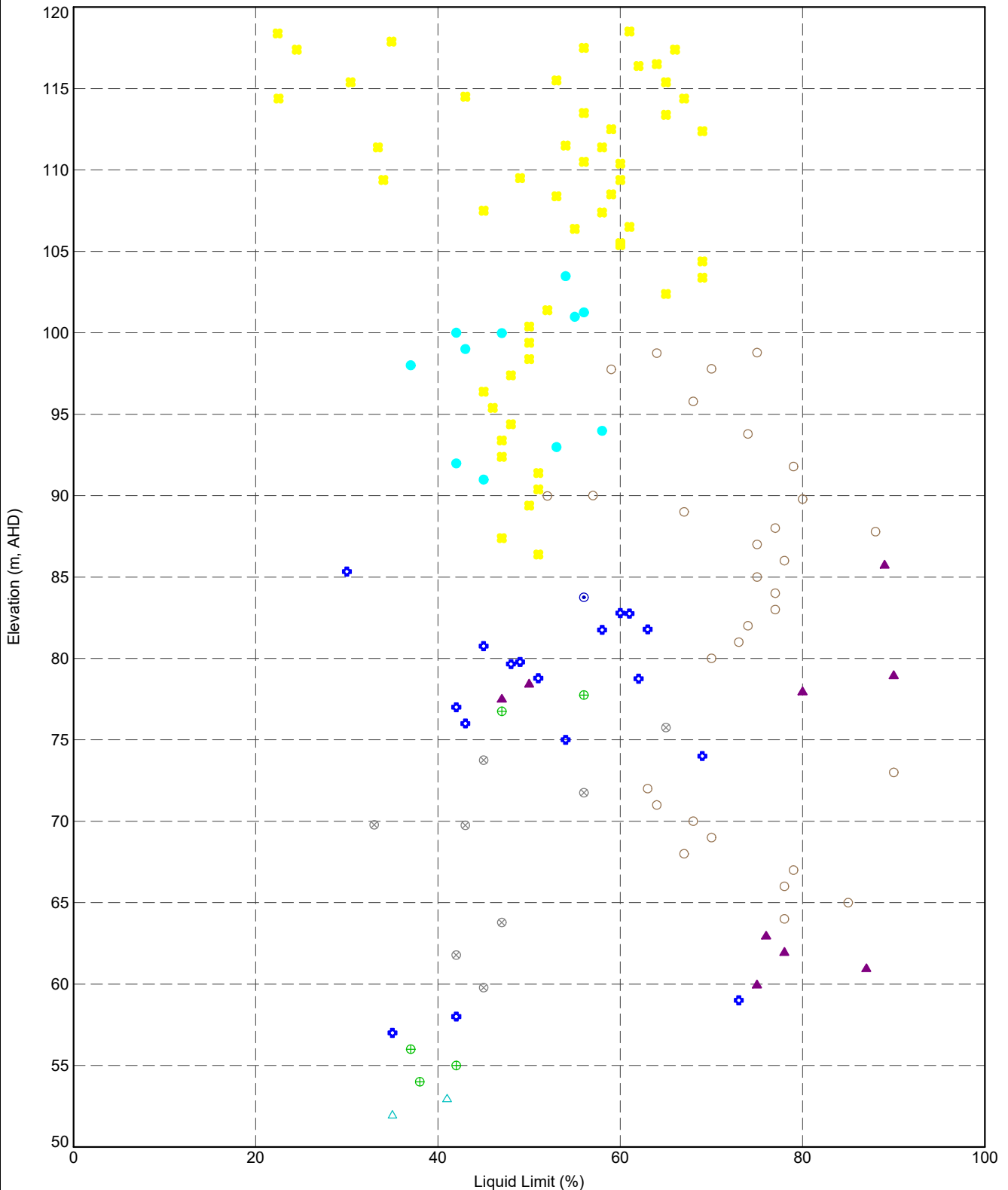
PointID Legend
 ■ ST/1090A
 ● ST/1090B/PRM
 ✖ ST/1149A
 ◆ ST/1149B/VST_PZW
 ✖ ST/1162A/PZW
 ● ST/1162B/VST_PZW



TITLE
Datgel
Engineer 1
Somewhere, World
Construction Project
Liquid Limit versus Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	191

DGD1-P-5.03.1-LIB-GLB-Graph-A-LCS-LIQUID LIMIT VS PL BY UNIT DGD1-P-5.03.2-2020-09-08 Proj: DGD1-CA-ST-5.03.1-2020-09-05
 99/2020-1844-10.01.00.11-Datgel Lab and in Situ Tool - DGD1-P-5.03.2-2020-09-08 Proj: DGD1-CA-ST-5.03.1-2020-09-05
 <DrawingFile>



Geology Unit Legend

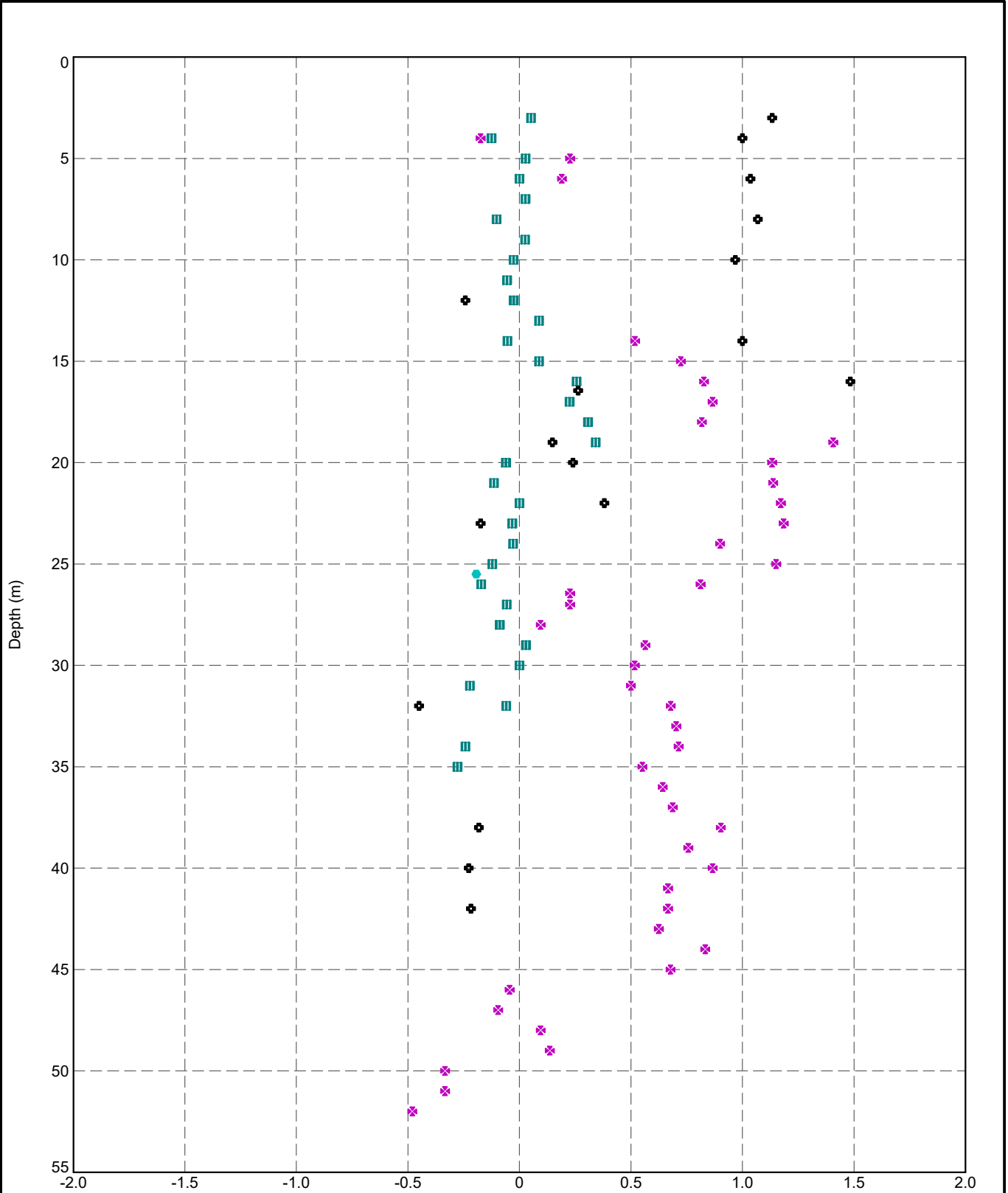
- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- F1 - Alluvial soil (Granular)
- F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- △ O(A) - Old Alluvium (Unweathered)
- ⊗ O(B) - Old Alluvium (Partially weathered)
- ⊕ O(C) - Old Alluvium (Distinctly weathered)
- G(V) - Granite (rocks & associated soils) Residua...



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Liquid Limit versus Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	192

DGDTP.5.03.1.LIB.GLB_Graph_A.LCS.LIQUIDITY INDEX VS DEPTH BY PTID_DGDTP.5.03.1.2020-09-05 <<DrawingFile>> 9/9/2020 16:44 10.01.00.11 Datgel Lab and In Situ Tool - DGDTP.5.03.1.2020-09-08 PFI.DGDTP.DLST.5.03.1.2020-09-05



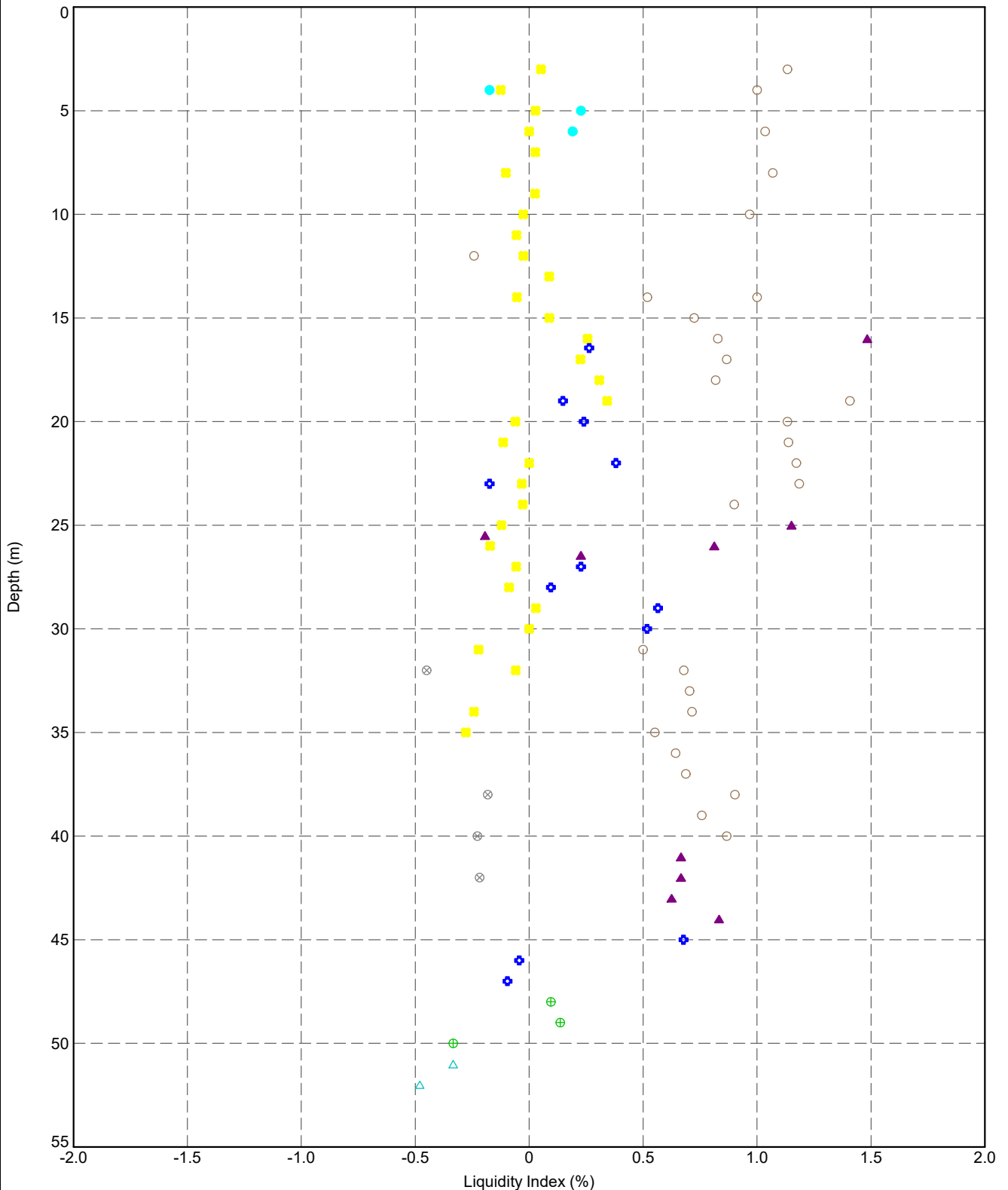
PointID Legend
 ■ ST/1090A
 ◆ ST/1149A
 ✕ ST/1162A/PZW
 ● ST/1162B/VST_PZW



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Liquidity Index versus Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	193

DGDTP.5.03.2.LIB.GLB Graph A.LCS.LIQUIDITY INDEX VS DEPTH BY UNIT DGDTP.5.03.2.2020-09-08 Proj.DGDTP.DLST.5.03.1.2020-09-05



Geology Unit Legend

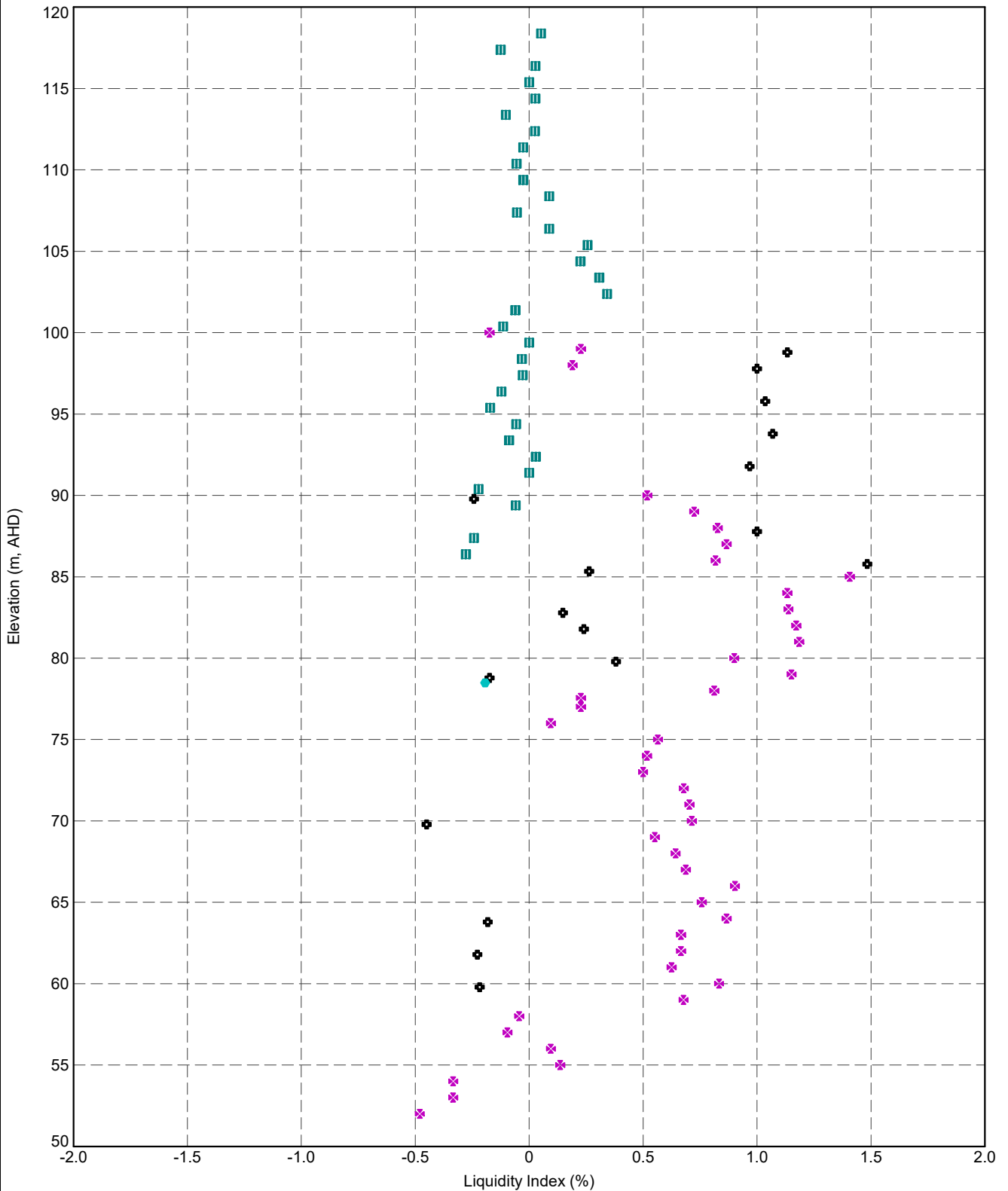
- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- F1 - Alluvial soil (Granular)
- ⊕ F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- △ O(A) - Old Alluvium (Unweathered)
- ⊗ O(B) - Old Alluvium (Partially weathered)
- ⊕ O(C) - Old Alluvium (Distinctly weathered)
- G(VI) - Granite (rocks & associated soils) Residua...



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Liquidity Index versus Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	194

DGD1-P.5.03.2.LIB.GLB_Graph_A.LCS.LIQUIDITY INDEX.VS.RLBY.PTID.DGD1-P.5.03.2.GPJ -<DrawingFile> 9/9/2020 16:45 10:01:00.11 DatgelLab and H. Sisu Tool - DGD | Lib: DGD1-P.5.03.2.2020-09-08 Pj: DGD1-DLST.5.03.1.2020-09-06



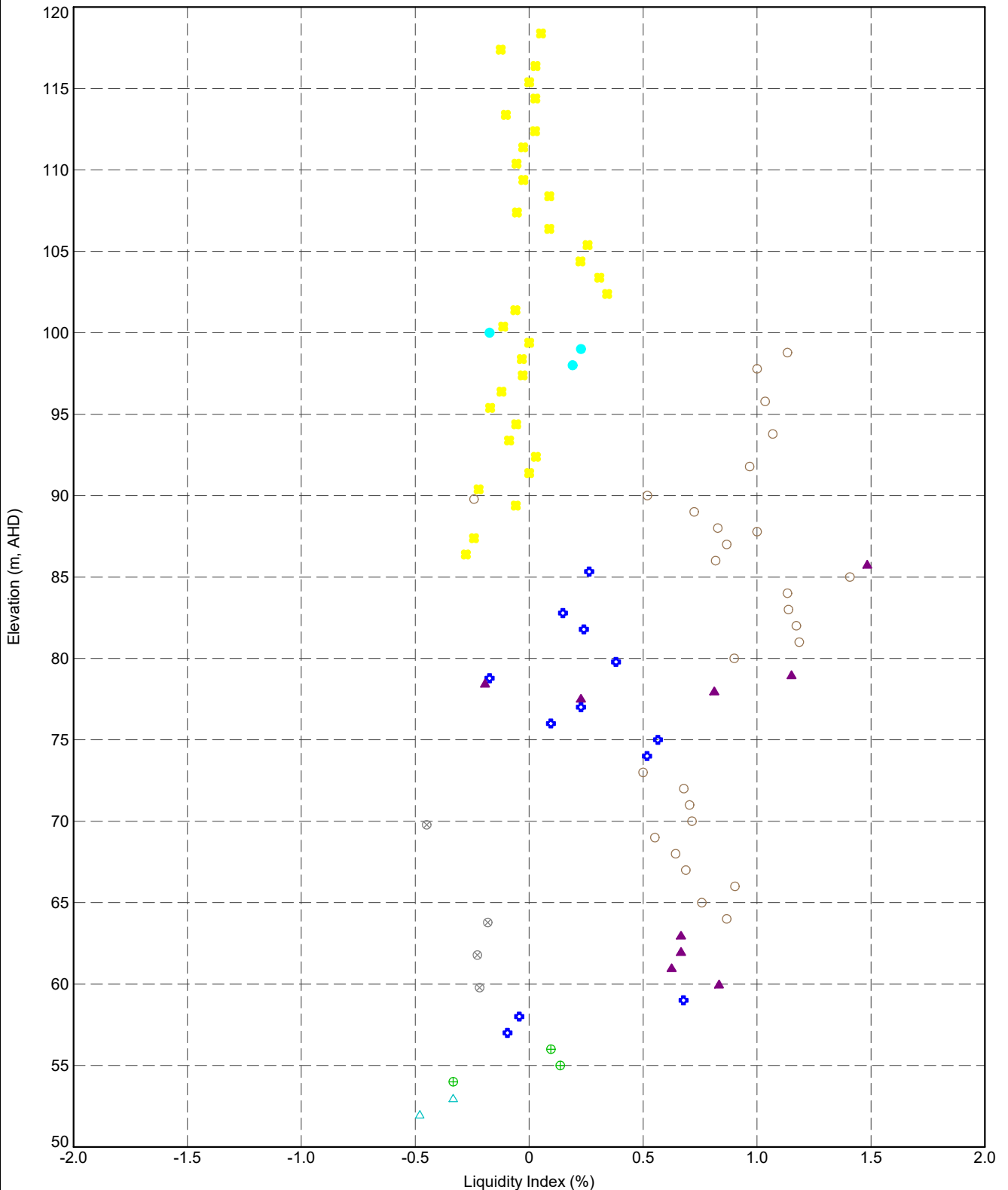
PointID Legend
 ■ ST/1090A
 ◆ ST/1149A
 ✕ ST/1162A/PZW
 ● ST/1162B/VST_PZW



TITLE
Datgel
Engineer 1
Somewhere, World
Construction Project
Liquidity Index versus Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	195

DGD1-P.5.03.1.LCS.LIQUIDITY INDEX.VS.RLYBY UNIT.DGD1-P.5.03.2.GPJ <<DrawingFiles>> 9/9/2020 16:45:10.01.00.11.DatgelLab and In Situ Tool - DGD | Lib: DGD1-P.5.03.2.2020-08-08.Pjt; DGD1-DLST.5.03.1.2020-08-05



Geology Unit Legend

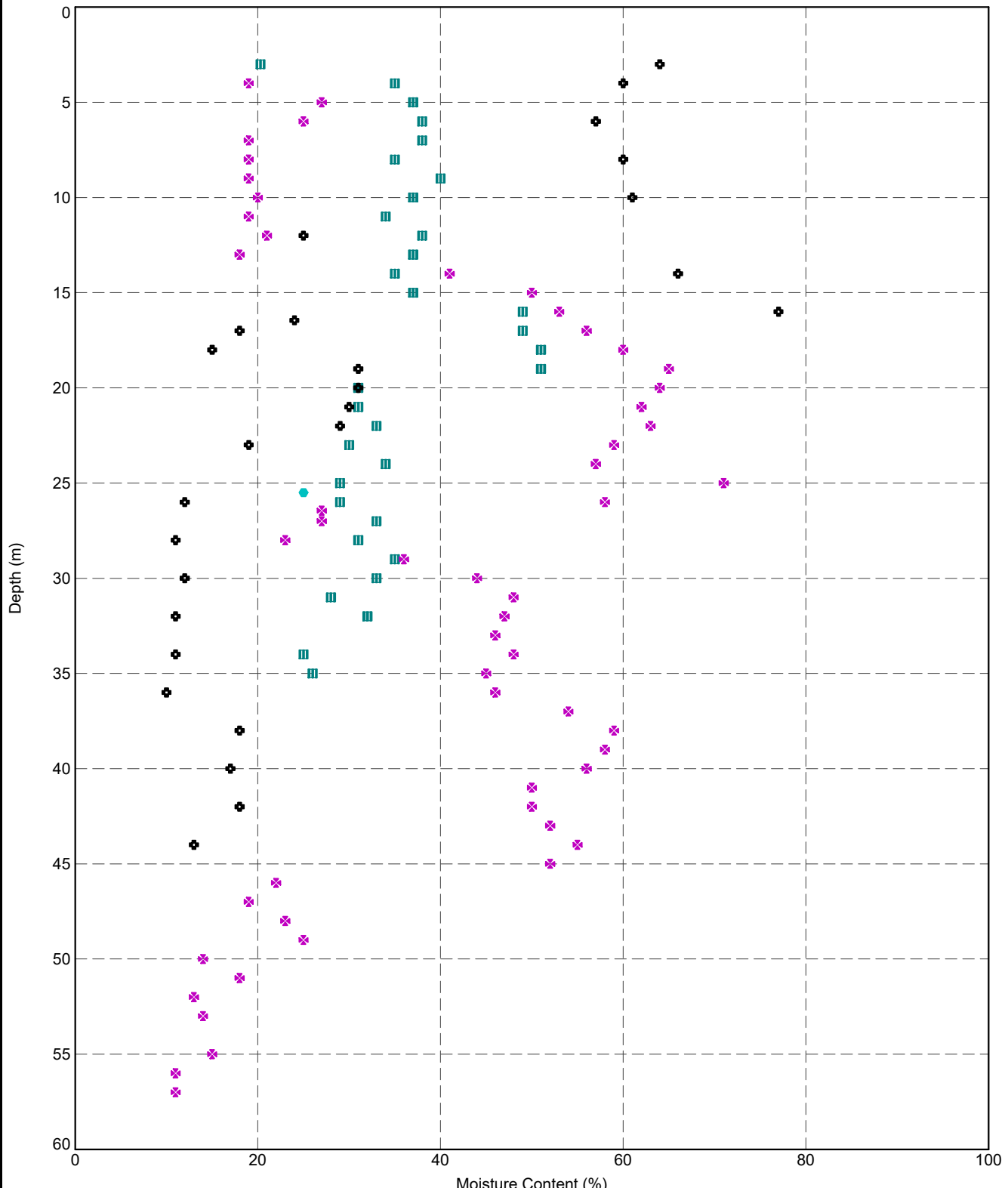
- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- F1 - Alluvial soil (Granular)
- ⊕ F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- △ O(A) - Old Alluvium (Unweathered)
- ⊗ O(B) - Old Alluvium (Partially weathered)
- ⊕ O(C) - Old Alluvium (Distinctly weathered)
- G(V) - Granite (rocks & associated soils) Residua...



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
Liquidity Index versus Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	196

DGD1-P.5.03.2.LIB.GLB_Graph_A.LCS.MC.VS.DEPTH.BY.PTID.DGD1-P.5.03.2.GPJ -<DrawingFiles> 9/9/2020 16:45:10.01.00.11_Datgel Lab and In Situ Tool_DGD | Lib: DGD1-P.5.03.2.2020-09-08 Proj: DGD1-DIST.5.03.1.2020-09-05



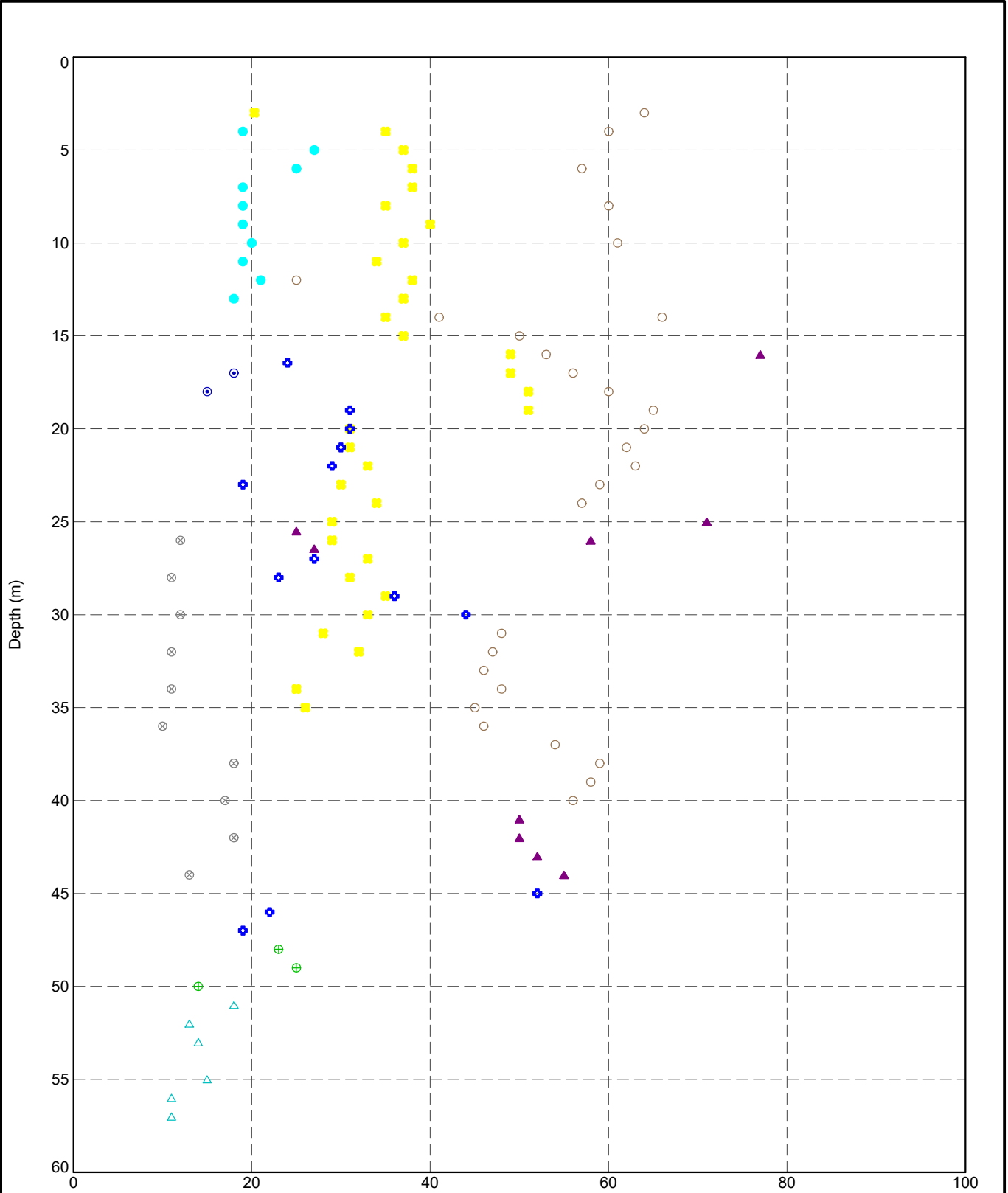
PointID Legend
 ■ ST/1090A
 ● ST/1149A
 ✕ ST/1162A/PZW
 ● ST/1162B/VST_PZW



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Moisture Content versus Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	197

DGD1-P.5.03.1.LIB.GLB - Graph A.L.CS.MC VS DEPTH BY UNIT DGD1-P.5.03.2.GPJ | Ut: DGD1-P.5.03.2.2020-09-08.Pj; DGD1-DLST.03.1.2020-09-05



Geology Unit Legend

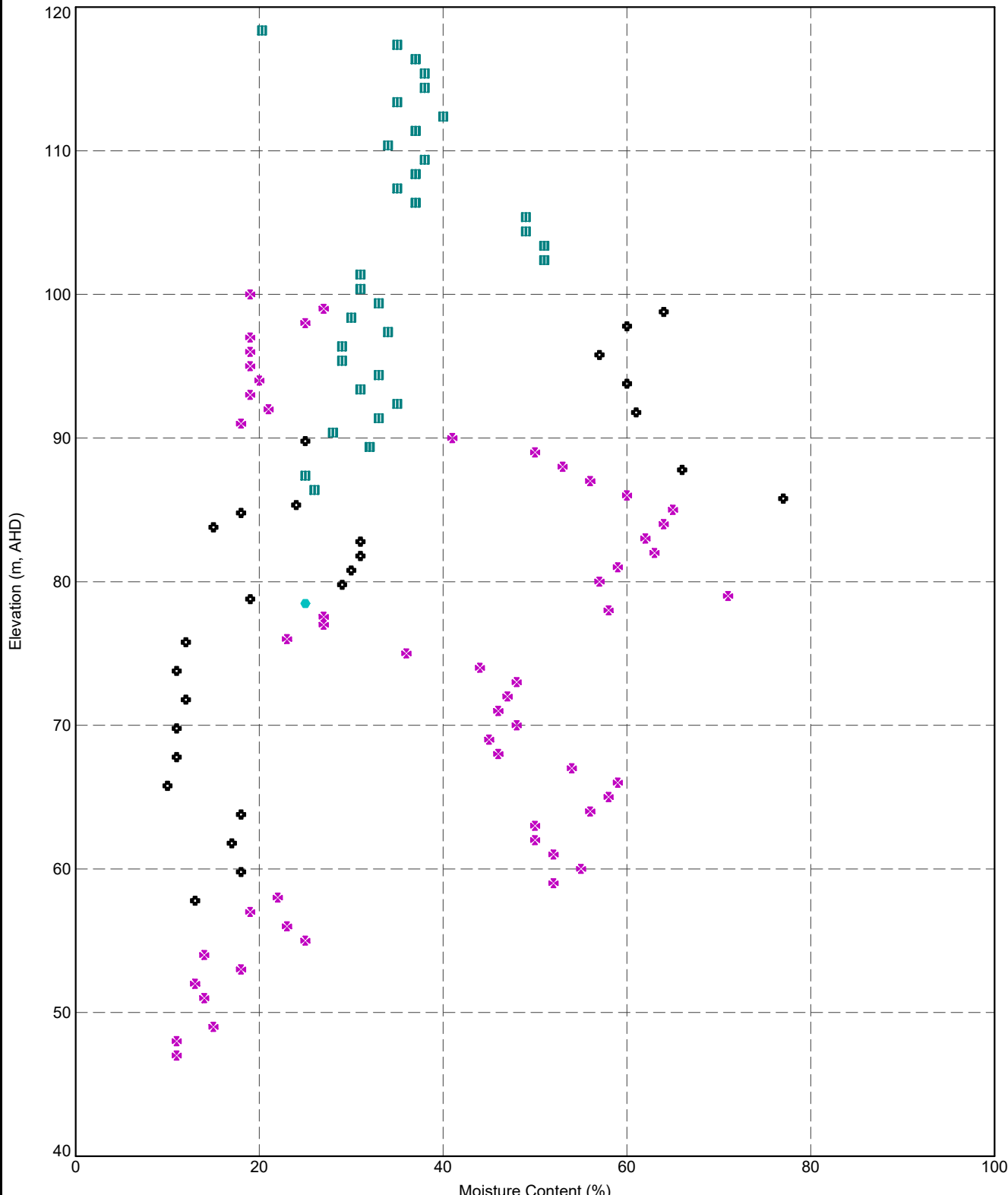
- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- F1 - Alluvial soil (Granular)
- ⊕ F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- △ O(A) - Old Alluvium (Unweathered)
- ⊗ O(B) - Old Alluvium (Partially weathered)
- ⊕ O(C) - Old Alluvium (Distinctly weathered)
- G(VI) - Granite (rocks & associated soils) Residua...
- ✱ G(IV) - Granite (rocks & associated soils) Highly ...
- G(III) - Granite (rocks & associated soils) Modera...
- G(II) - Granite (rocks & associated soils) Slightl...



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Moisture Content versus Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	198

DGD1-P.5.03.1.GLB Graph A.LCS.MC.VS.RL.BY.FTID.DGD1-P.5.03.2.GPJ -> DrawingFile -> 9/9/2020 16:45 10.01.00.11 Datgel Lab and In Situ Tool - DGD [Lib: DGD1-P.5.03.2.2020-09-08.Pjt; DGD1-GL.ST.5.03.1.2020-09-05]



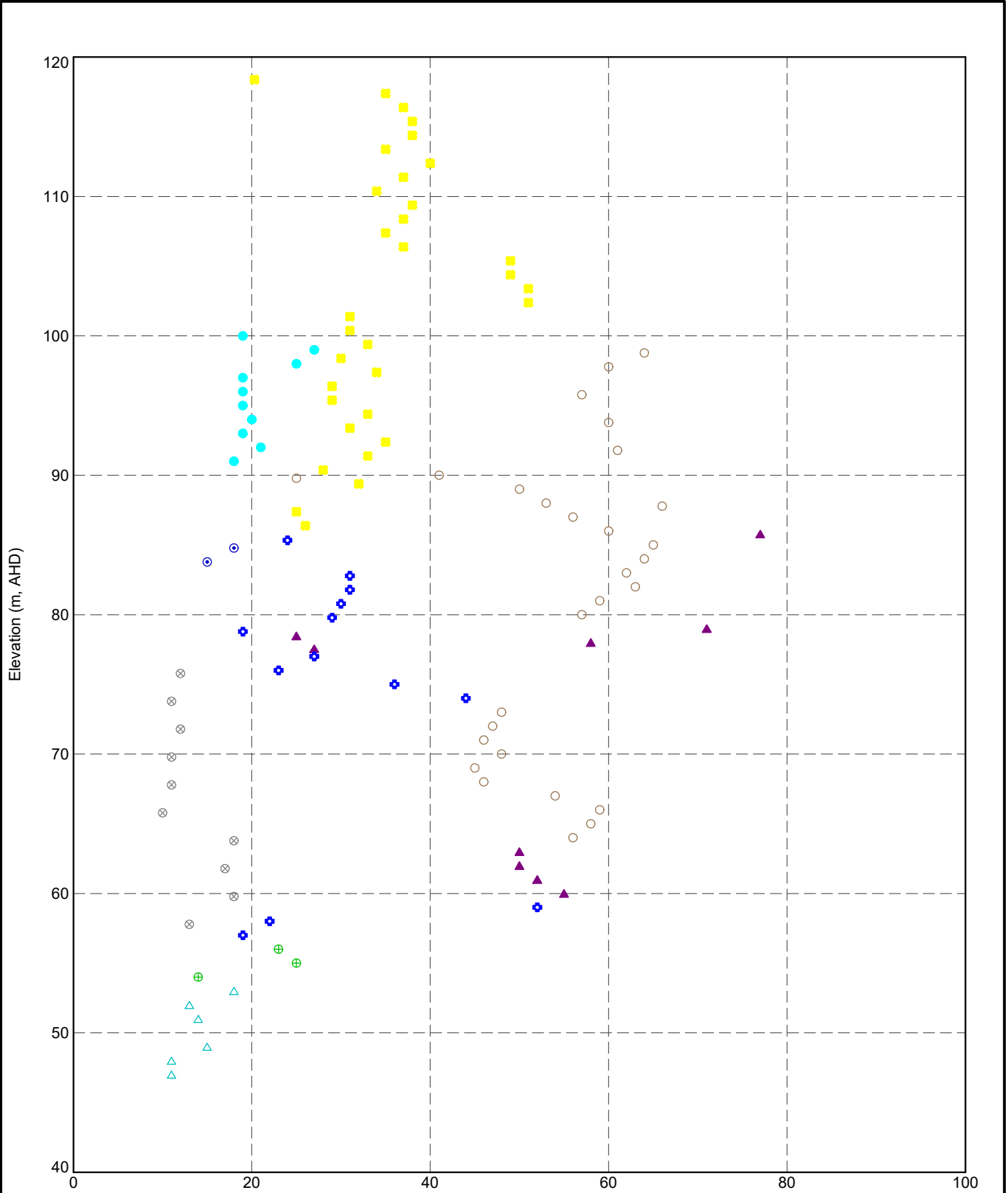
PointID Legend
 ■ ST/1090A
 ● ST/1149A
 ✕ ST/1162A/PZW
 ● ST/1162B/VST_PZW



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Moisture Content versus Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	199

DGD1-P-5.03.2-UB-GLB-Graph-A-LCS-MC-VS-FL-BY-UNIT-DGD1-P-5.03.2-GPJ - Drawing File -> 9/9/2020 18:45 10.01.00.11 Datgel Lab and in Situ Tool - DGD [Lib: DGD1-P-5.03.2 2020-09-08 Proj: DGD1-01-ST-5.03.1 2020-09-05]



Geology Unit Legend

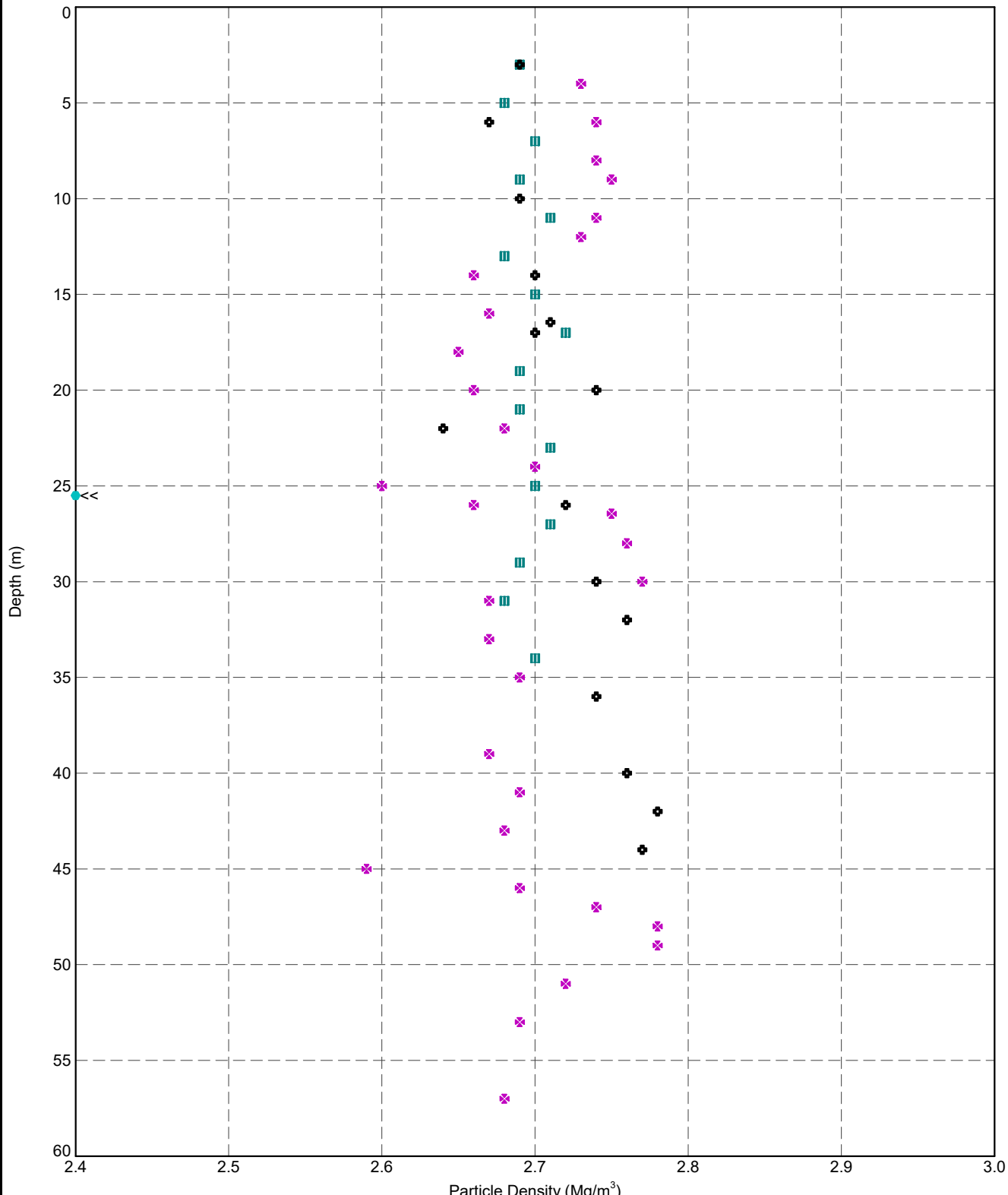
- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- F1 - Alluvial soil (Granular)
- F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- ▲ O(A) - Old Alluvium (Unweathered)
- O(B) - Old Alluvium (Partially weathered)
- + O(C) - Old Alluvium (Distinctly weathered)
- G(VI) - Granite (rocks & associated soils) Residual
- G(IV) - Granite (rocks & associated soils) Highly weathered
- G(III) - Granite (rocks & associated soils) Moderately weathered
- G(II) - Granite (rocks & associated soils) Slightly weathered



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Moisture Content versus Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	200

DGD1-P-5.03.2-LIB-GLB-Graph-A-LCS-PARTICLE-DENSITY-VS-DEPTH-BY-PTID-DGD1-P-5.03.2-2020-09-08-Prj-DGD1-DLST-5.03.1-2020-09-05
 <<DrawingFile>> 9/9/2020 18:45 10.01.00.11 Datgel.Lab and In Situ Tools - DGD1 | Lib: DGD1-P-5.03.2-2020-09-08-Prj-DGD1-DLST-5.03.1-2020-09-05



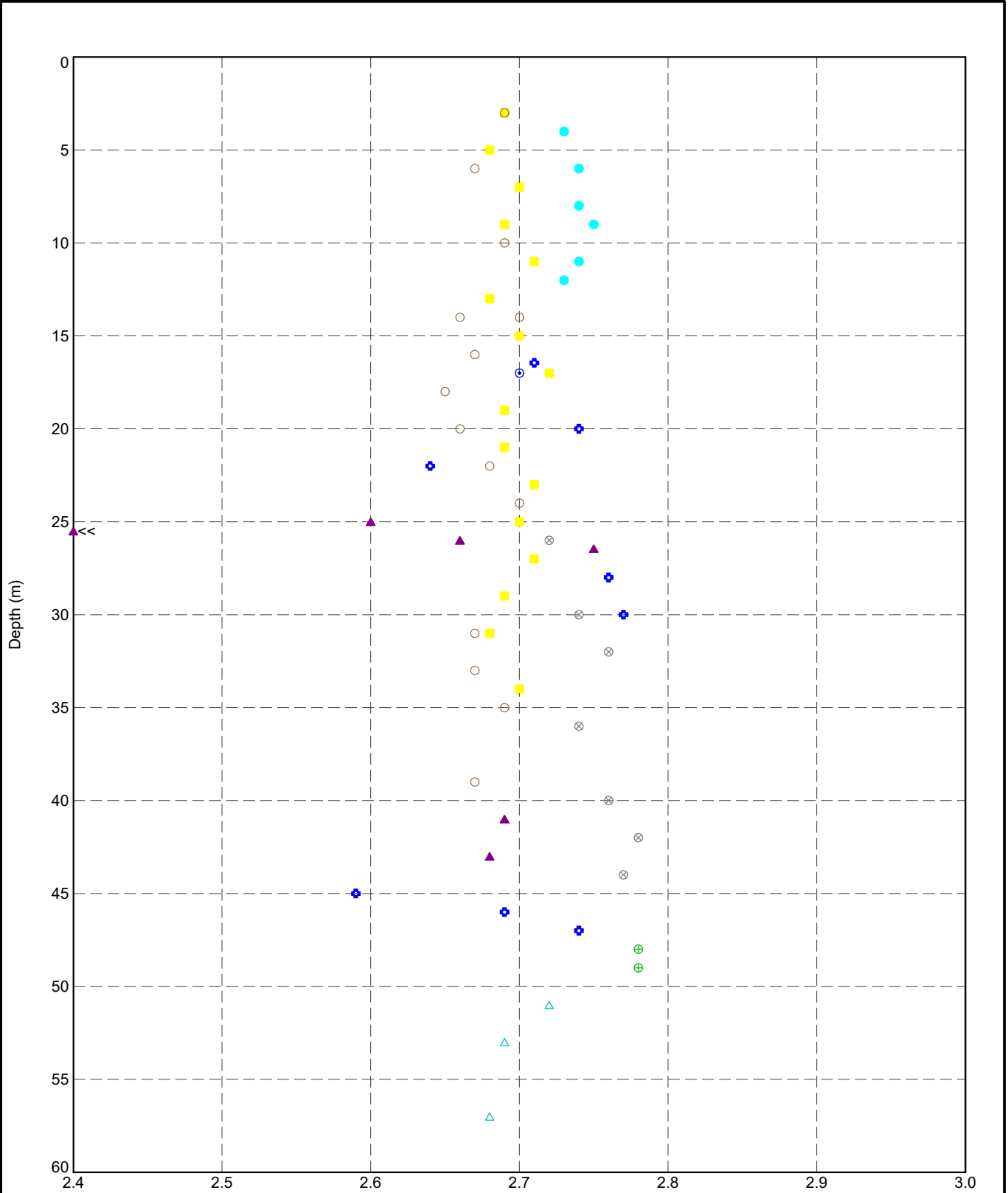
PointID Legend
 ■ ST/1090A
 ◆ ST/1149A
 ✕ ST/1162A/PZW
 ● ST/1162B/VST_PZW



TITLE
Datgel
Engineer 1
Somewhere, World
Construction Project
Particle Density versus Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	201

DGD1.P.5.03.1.GLB Graph A.LCS PARTICLE DENSITY VS DEPTH BY UNIT DGD1.P.5.03.2.GPJ <<DrawingFile>> 9/9/2020 16:45 10.01.00.11 Datgel Lab and In Situ Tool - DGD [Lib: DGD1.P.5.03.2 2020-09-08 Proj: DGD1-DUST.5.03.1.2020-09-05]



Geology Unit Legend

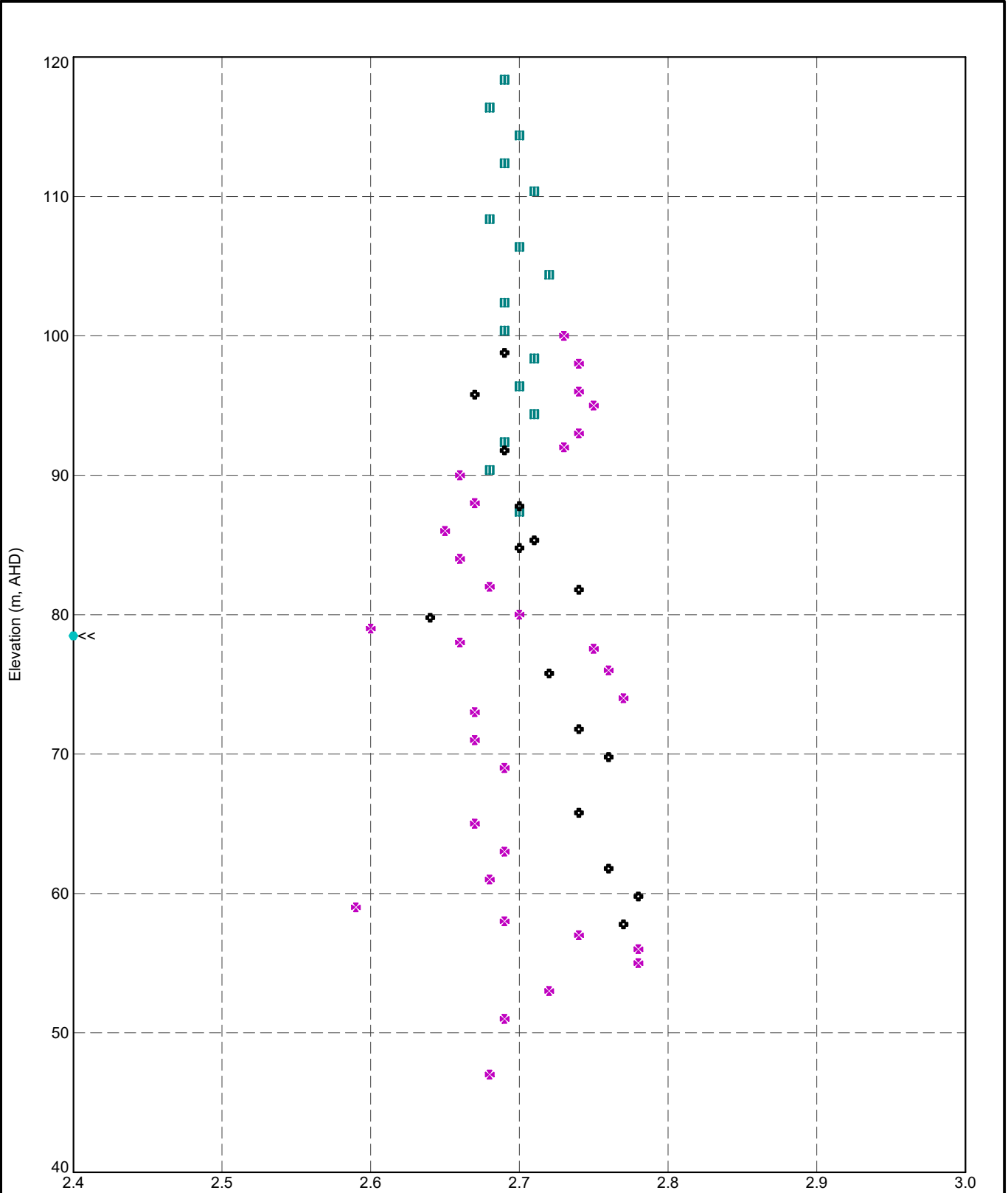
- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- ⊙ F1 - Alluvial soil (Granular)
- ⊕ F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- △ O(A) - Old Alluvium (Unweathered)
- ⊗ O(B) - Old Alluvium (Partially weathered)
- ⊕ O(C) - Old Alluvium (Distinctly weathered)
- G(VI) - Granite (rocks & associated soils) Residua...



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Particle Density versus Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	202

DGD1-P-5.03.2-UB-GLB_Graph_A-1-CS PARTICLE DENSITY V/S RL BY:PTID DGD1-P-5.03.2-GPJ <DrawingFile> 9/9/2020 18:45 10.01.00.1.1 Datgel Lab and In Situ Tool - DGD1 Lib. DGD1-P-5.03.2-2020-09-08 File: DGD1-DIST-5.03.1-2020-09-05



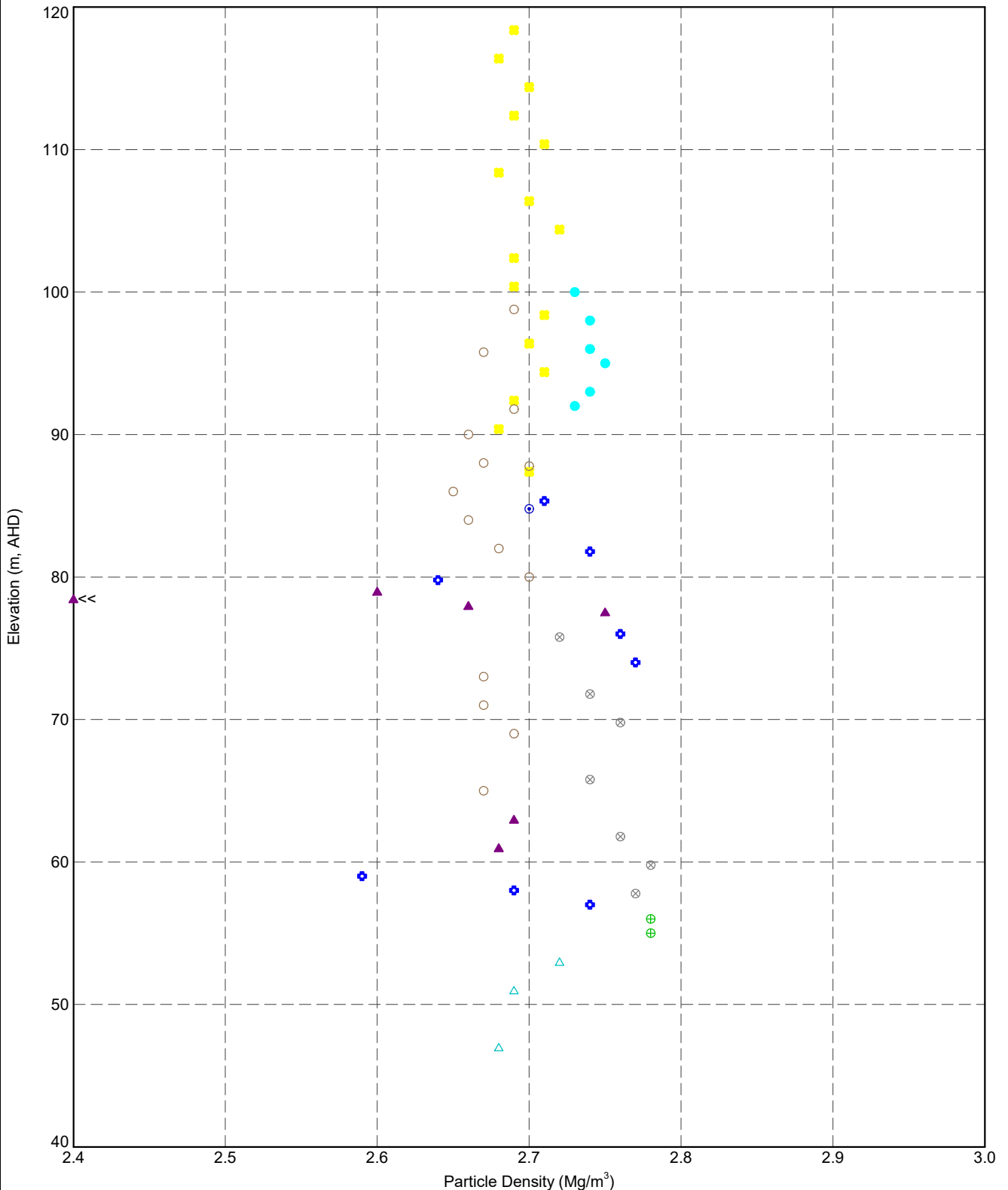
PointID Legend
 ■ ST/1090A
 ● ST/1149A
 ✕ ST/1162A/PZW
 ● ST/1162B/VST_PZW



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Particle Density versus Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	203

DGDTP-5.03.1.GLB Graph A LCS PARTICLE DENSITY VS RL BY UNIT DGDTP-5.03.2.GPJ <<DrawingFile>> 9/9/2020 16:45 10.01.00.11 Datgel Lab and In Situ Tool - DGD | Lib. DGDTP-5.03.2.2020-09-08 Pj; DGDTP-DLST 5.03.1.2020-09-05



Geology Unit Legend

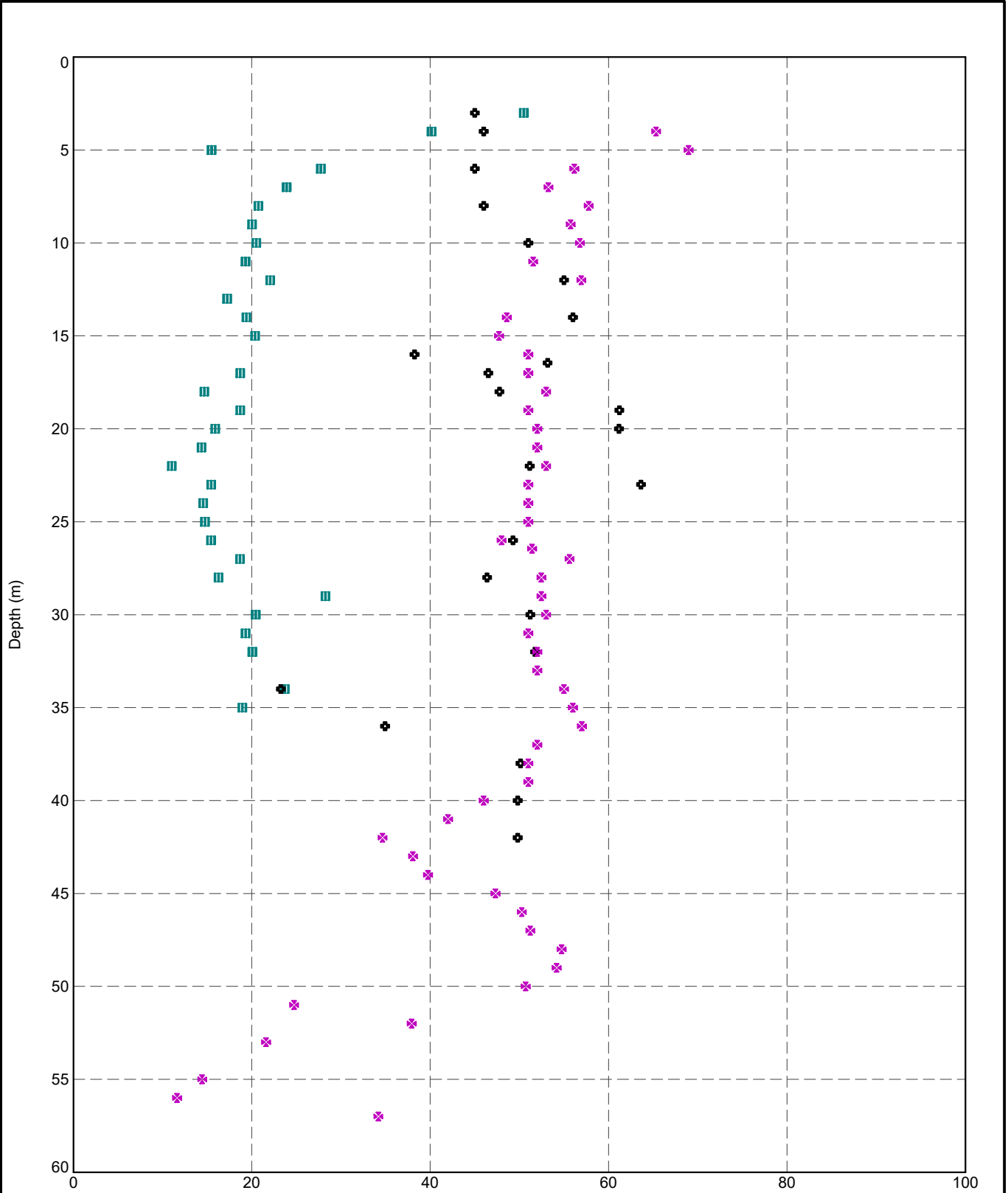
- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- F1 - Alluvial soil (Granular)
- ⊗ F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- △ O(A) - Old Alluvium (Unweathered)
- ⊗ O(B) - Old Alluvium (Partially weathered)
- ⊕ O(C) - Old Alluvium (Distinctly weathered)
- G(VI) - Granite (rocks & associated soils) Residua...



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Particle Density versus Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1		FIGURE No 204

DGD1-P.5.03.1.LCS.PC.CLAY/PC.FINES.VS.DEPATH.BY.PTID.DGD1-P.5.03.2.GPJ -<DrawingFile> 9/9/2020 16:45:10.01.00.11 Datgel Lab and In Situ Tool - DGD | Lib: DGD1-P.5.03.2.2020-09-08 Pj | DGD1-DIST 5.03.1.2020-09-05



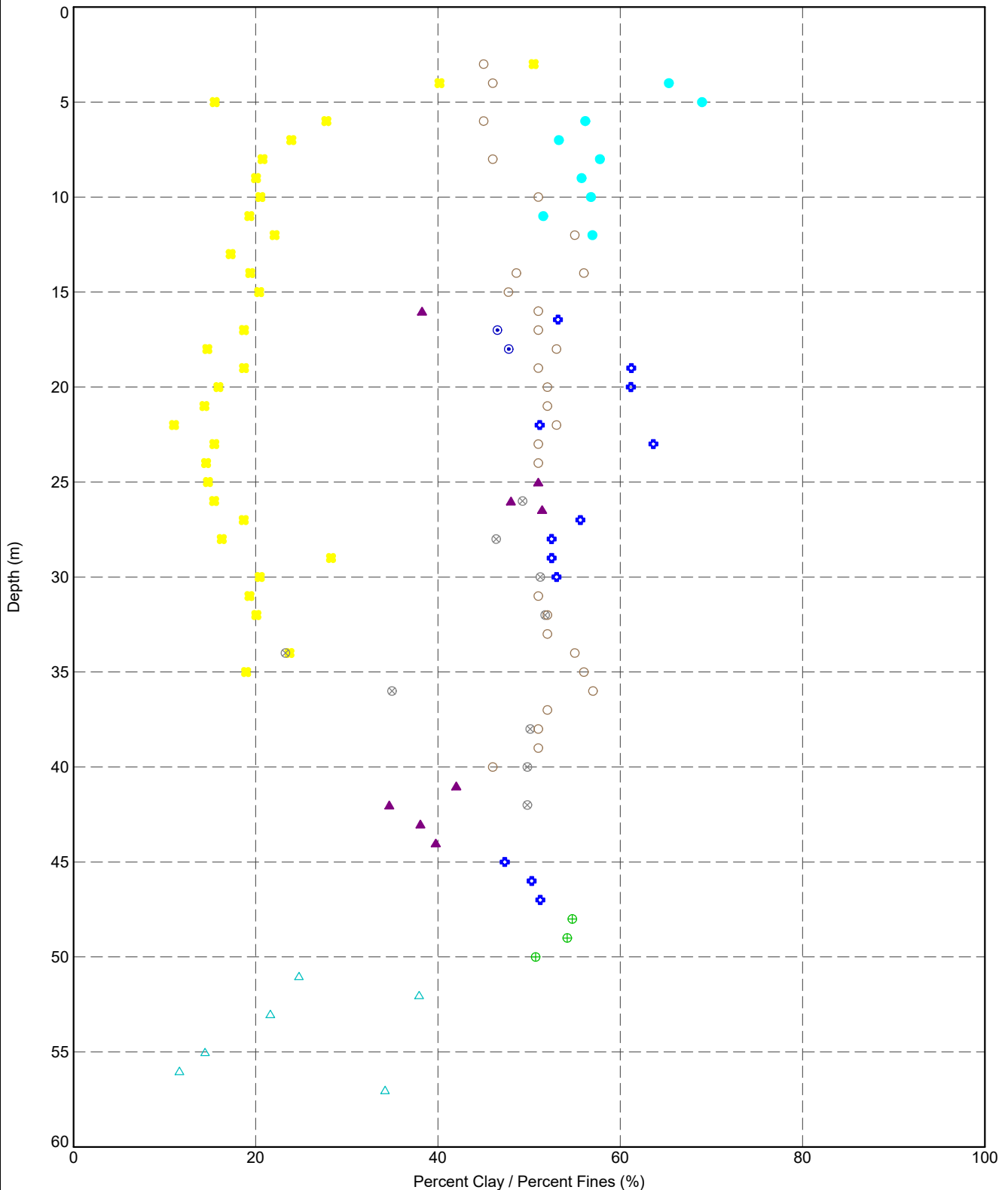
PointID Legend
■ ST/1090A
● ST/1149A
✕ ST/1162A/PZW



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Percent Clay / Percent Fines versus Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	205

DGD1-P.5.03.1.LIB.GLB_Graph_A.LCS.PC.CLAY/PC.FINES.VS.DEPTH.BY.UNIT_DGD1-P.5.03.2.2020-09-08.P1; DGD1-DLST.5.03.1.2020-09-05



Geology Unit Legend

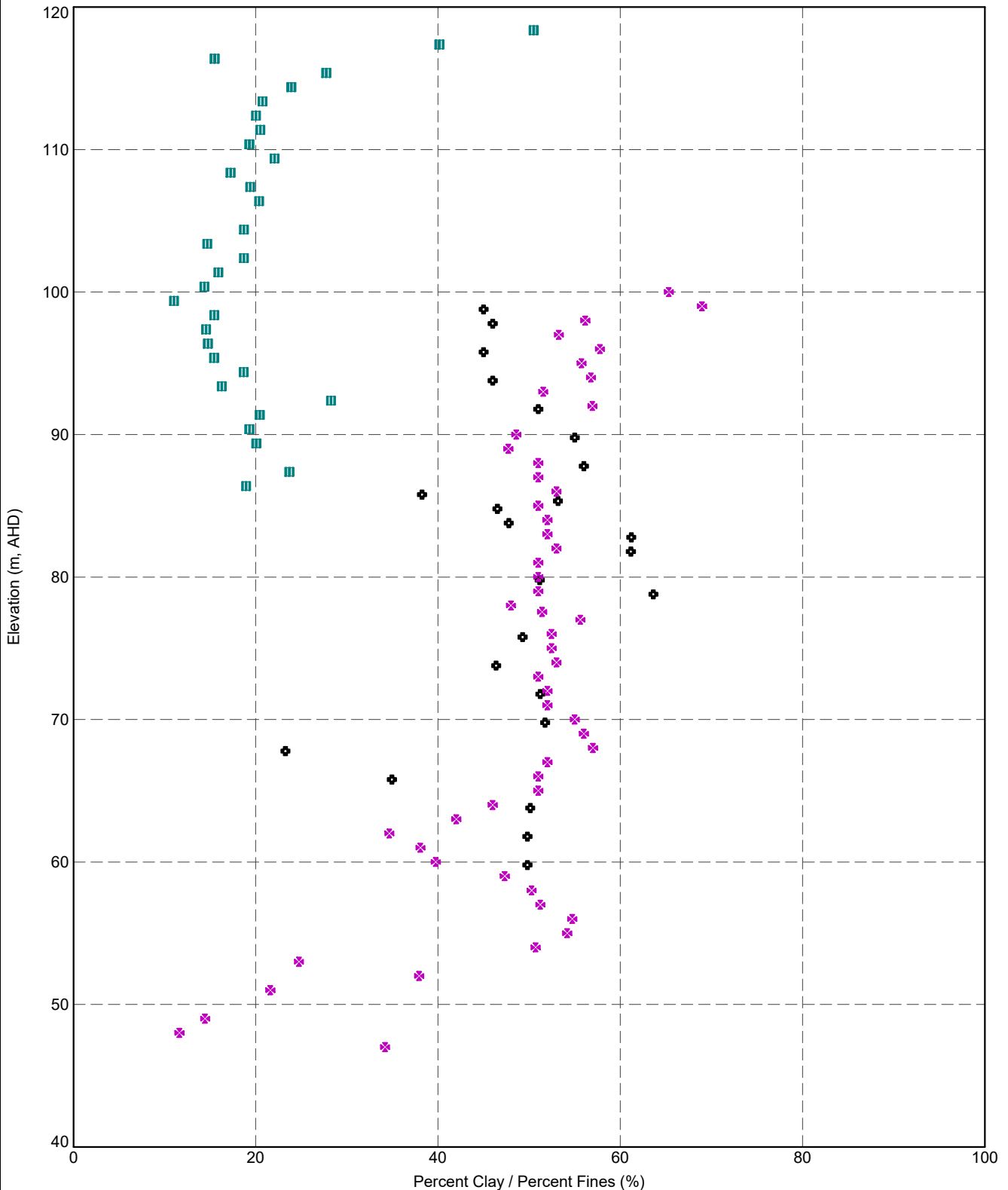
- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- F1 - Alluvial soil (Granular)
- F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- △ O(A) - Old Alluvium (Unweathered)
- ⊗ O(B) - Old Alluvium (Partially weathered)
- ⊕ O(C) - Old Alluvium (Distinctly weathered)
- G(VI) - Granite (rocks & associated soils) Residua...
- G(V) - Granite (rocks & associated soils) Comple...
- ✱ G(IV) - Granite (rocks & associated soils) Highly ...
- G(III) - Granite (rocks & associated soils) Modera...
- G(II) - Granite (rocks & associated soils) Slightl...



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Percent Clay / Percent Fines versus Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	206

DGD1-P.5.03.1.GLB.Graph A.LCS.PC.CLAY/PC.FINES VS RL BY PTID. DGD1-P.5.03.2.GPJ -> Drawing File >> 9/9/2020 16:45 10.01.00.11 Datgel Lab and In Situ Tool - DGD [Lib: DGD1-P.5.03.2.2020-09-09.P] DGD1-CL.ST 5.03.1.2020-09-05



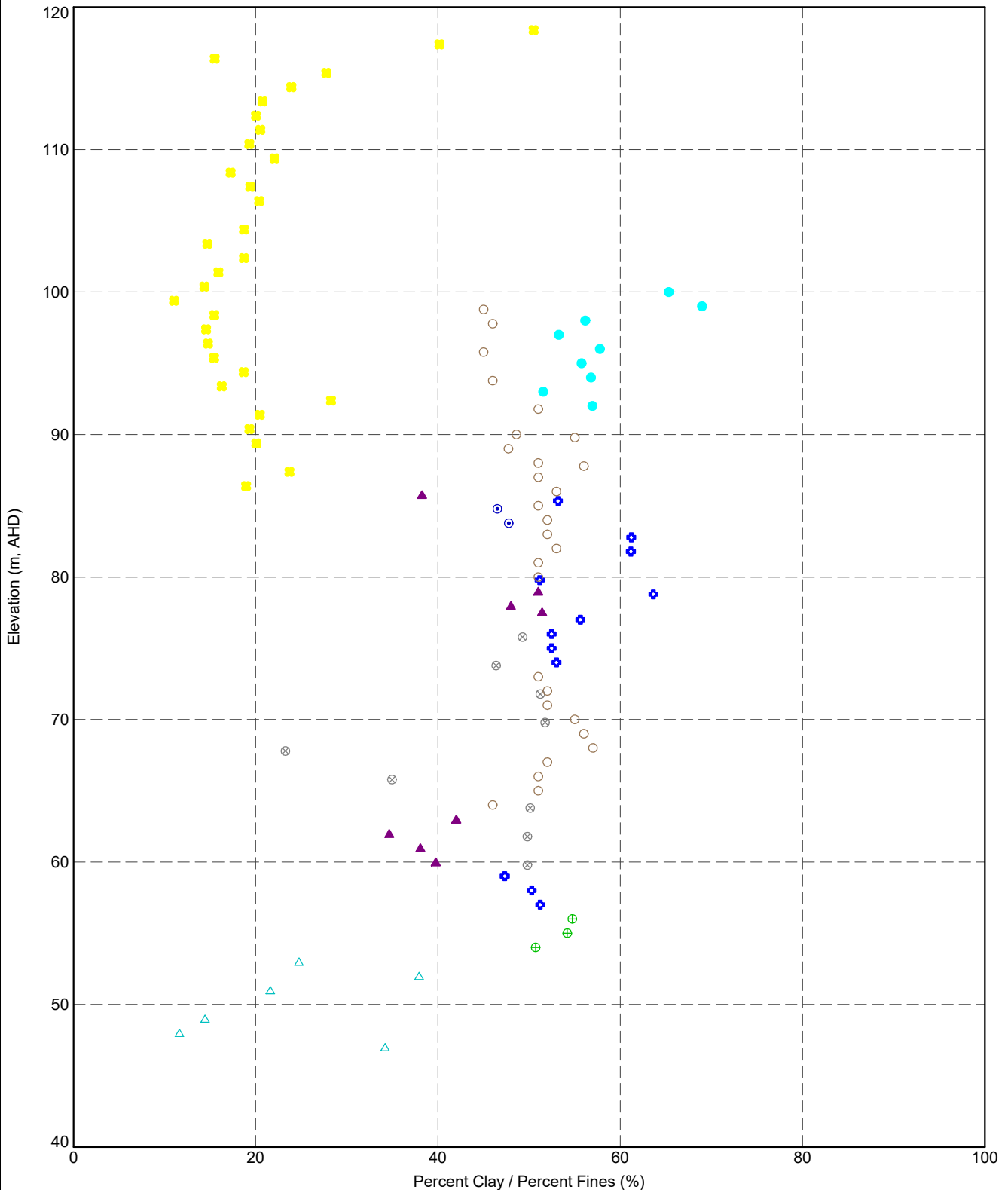
PointID Legend
 ■ ST/1090A
 ● ST/1149A
 ✕ ST/1162A/PZW



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Percent Clay / Percent Fines versus Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	207

DGD1-P.5.03.1.GLB_Graph_A.LCS.PC.CLAY/PC.FINES.VS.FL.BY.UNIT.DGD1-P.5.03.2.GPJ_03-DrawingFile> 9/9/2020 18:45 10.01.00.11 Datgel Lab and In Situ Tool - DGD1-P.5.03.2.2020-09-09 Proj: DGD1-03-ST.5.03.1.2020-09-05



Geology Unit Legend

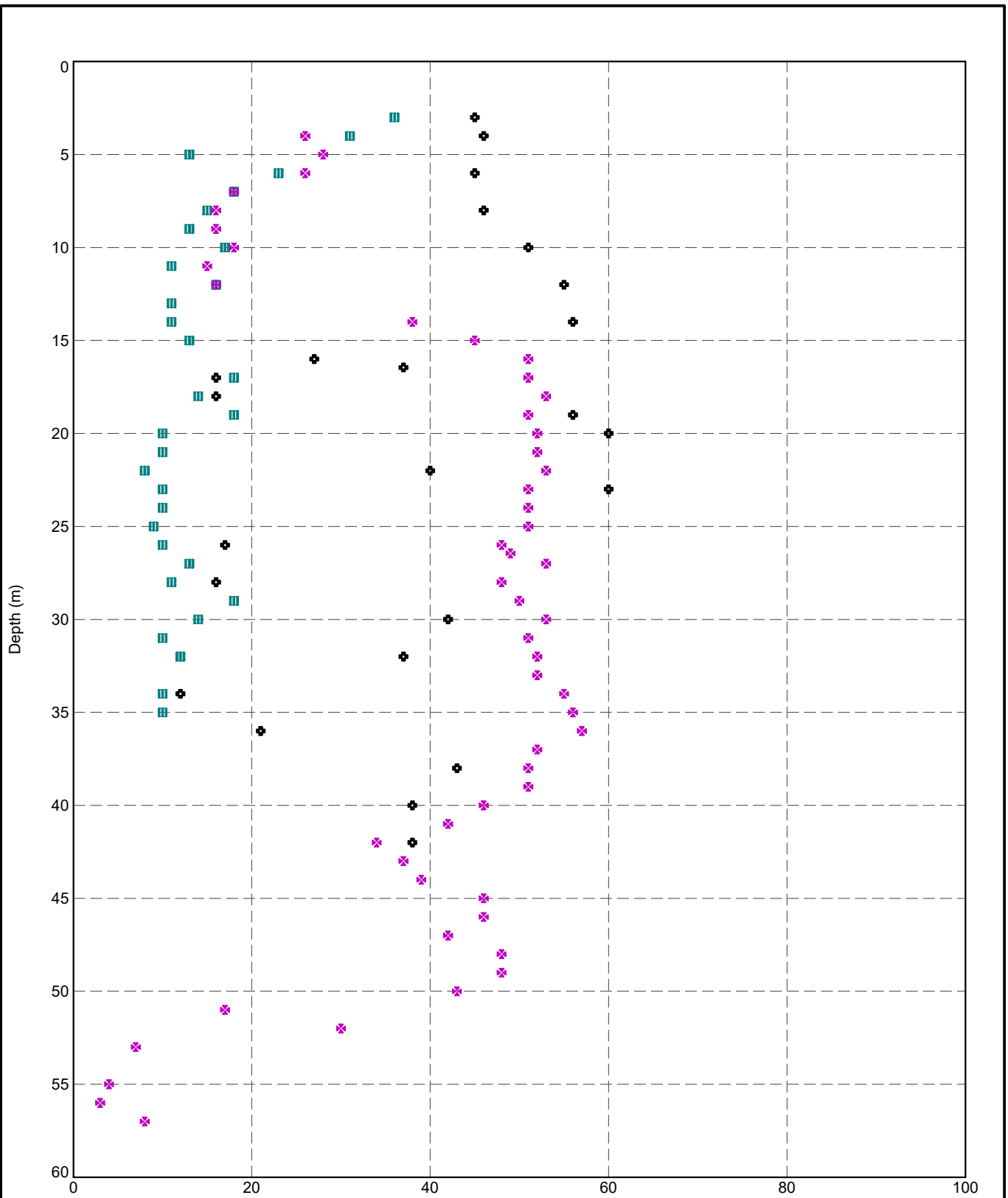
- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- F1 - Alluvial soil (Granular)
- ⊕ F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- △ O(A) - Old Alluvium (Unweathered)
- ⊗ O(B) - Old Alluvium (Partially weathered)
- ⊕ O(C) - Old Alluvium (Distinctly weathered)
- G(VI) - Granite (rocks & associated soils) Residua...
- G(V) - Granite (rocks & associated soils) Comple...
- ✱ G(IV) - Granite (rocks & associated soils) Highly ...
- G(III) - Granite (rocks & associated soils) Modera...
- G(II) - Granite (rocks & associated soils) Slightl...



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
Percent Clay / Percent Fines versus Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	208

DGD1-P-5.03.2-LIB-GLB-Graph-A-1-CS-PERCENT CLAY VS DEPTH BY PTID_DGD1-P-5.03.2-GPJ- <DrawingFiles> 9/9/2020 16:45:10.01.00.11_DatgelLab and In Situ Tool - DGD | Lib: DGD1-P-5.03.2-2020-08-08 P1; DGD1-DLS1.05.1-2020-09-05



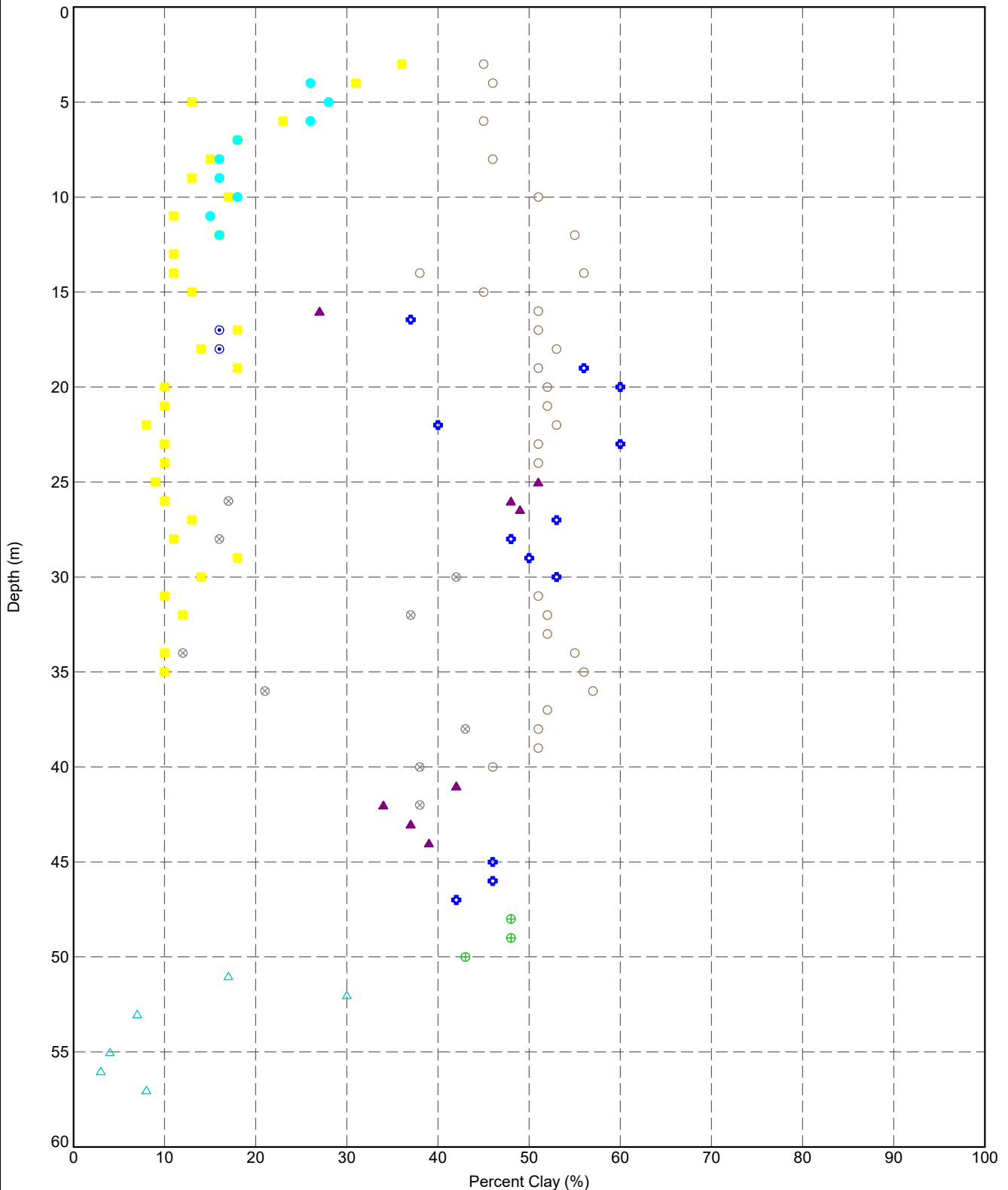
PointID Legend
■ ST/1090A
● ST/1149A
× ST/1162A/PZW



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Percent Clay versus Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	209

DGD1-P-5.03.1-C5 PERCENT CLAY VS DEPTH BY UNIT DGD1-P-5.03.2.GPJ -<DrawingFile> 9/9/2020 16:45:10.01.00.11 Datgel Lab and In Situ Tool - DGD | Lib: DGD1-P-5.03.2.2020-08 Proj: DGD1-DIST 5.03.1.2020-09-05



Geology Unit Legend

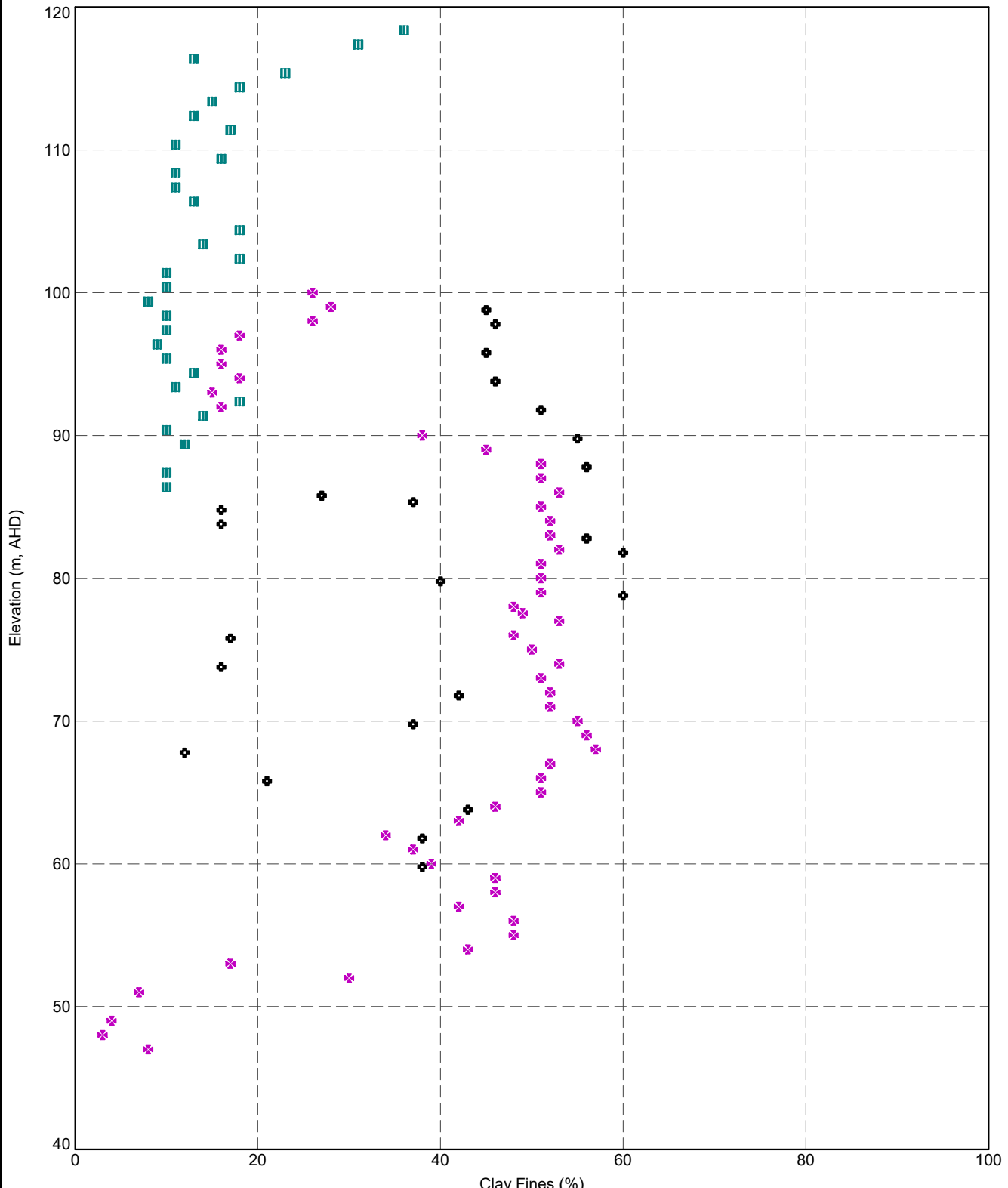
- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- F1 - Alluvial soil (Granular)
- F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- △ O(A) - Old Alluvium (Unweathered)
- O(B) - Old Alluvium (Partially weathered)
- O(C) - Old Alluvium (Distinctly weathered)
- G(VI) - Granite (rocks & associated soils) Residual
- G(V) - Granite (rocks & associated soils) Complete
- ✱ G(IV) - Granite (rocks & associated soils) Highly
- G(III) - Granite (rocks & associated soils) Moderate
- G(II) - Granite (rocks & associated soils) Slight



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Percent Clay versus Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	210

DGD1-P.5.03.2.LIB.GLB Graph A.L.CS PERCENT CLAY VS RL BY FTID DGD1-P.5.03.2.GPJ -> Drawing# => 9/9/2020 18:45 10/01/0011 Datgel Lab and In Situ Tool - DGD [Lib: DGD1-P.5.03.2.2020-09-09] Proj: DGD1-CLUST 5.03.1 2020-09-05



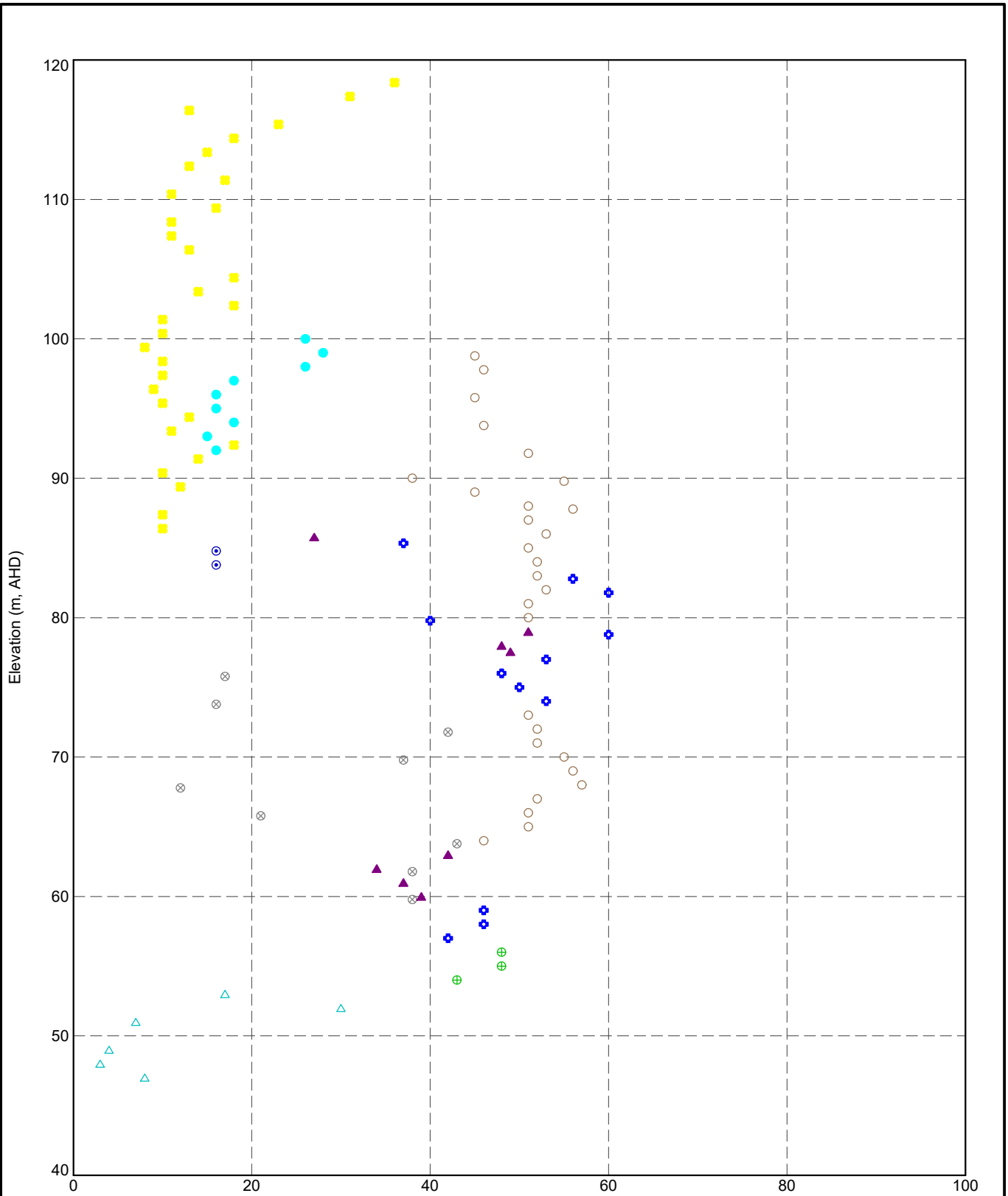
PointID Legend
■ ST/1090A
● ST/1149A
× ST/1162A/PZW



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Percent Clay versus Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	211

DGD1-P.5.03.1.LCS PERCENT CLAY VS RL BY UNIT DGD1-P.5.032.GPJ -cDrawingFile--> 9/9/2020 16:46 10.01.00.11 Datgel Lab and in Situ Tool - DGD [Lib: DGD1-P.5.03.2.2020-09-08 Proj: DGD1-CL-ST.5.031.2020-09-05]



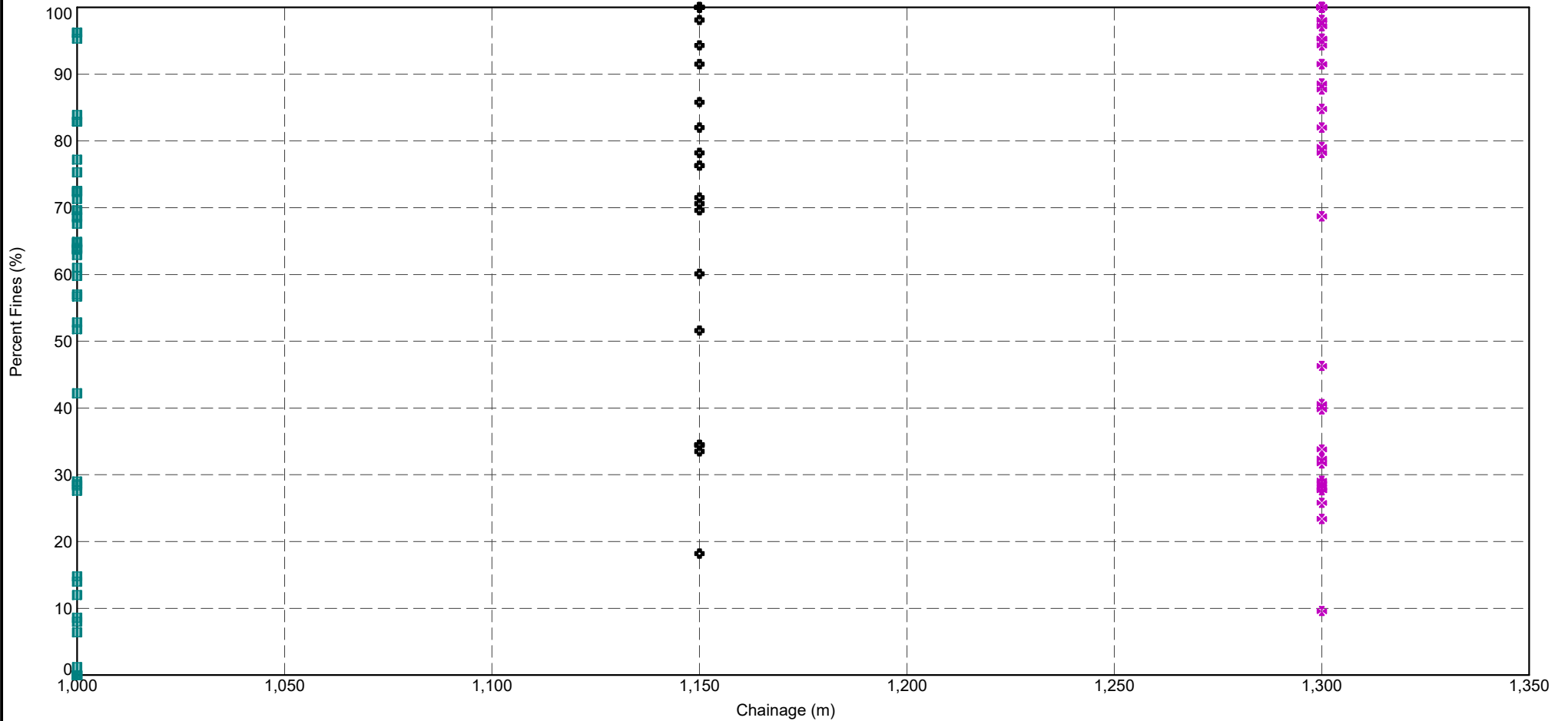
Geology Unit Legend

- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- F1 - Alluvial soil (Granular)
- ⊕ F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- △ O(A) - Old Alluvium (Unweathered)
- ⊗ O(B) - Old Alluvium (Partially weathered)
- ⊕ O(C) - Old Alluvium (Distinctly weathered)
- G(VI) - Granite (rocks & associated soils) Residua...
- G(V) - Granite (rocks & associated soils) Comple...
- ✱ G(IV) - Granite (rocks & associated soils) Highly ...
- G(III) - Granite (rocks & associated soils) Modera...
- G(II) - Granite (rocks & associated soils) Slightl...



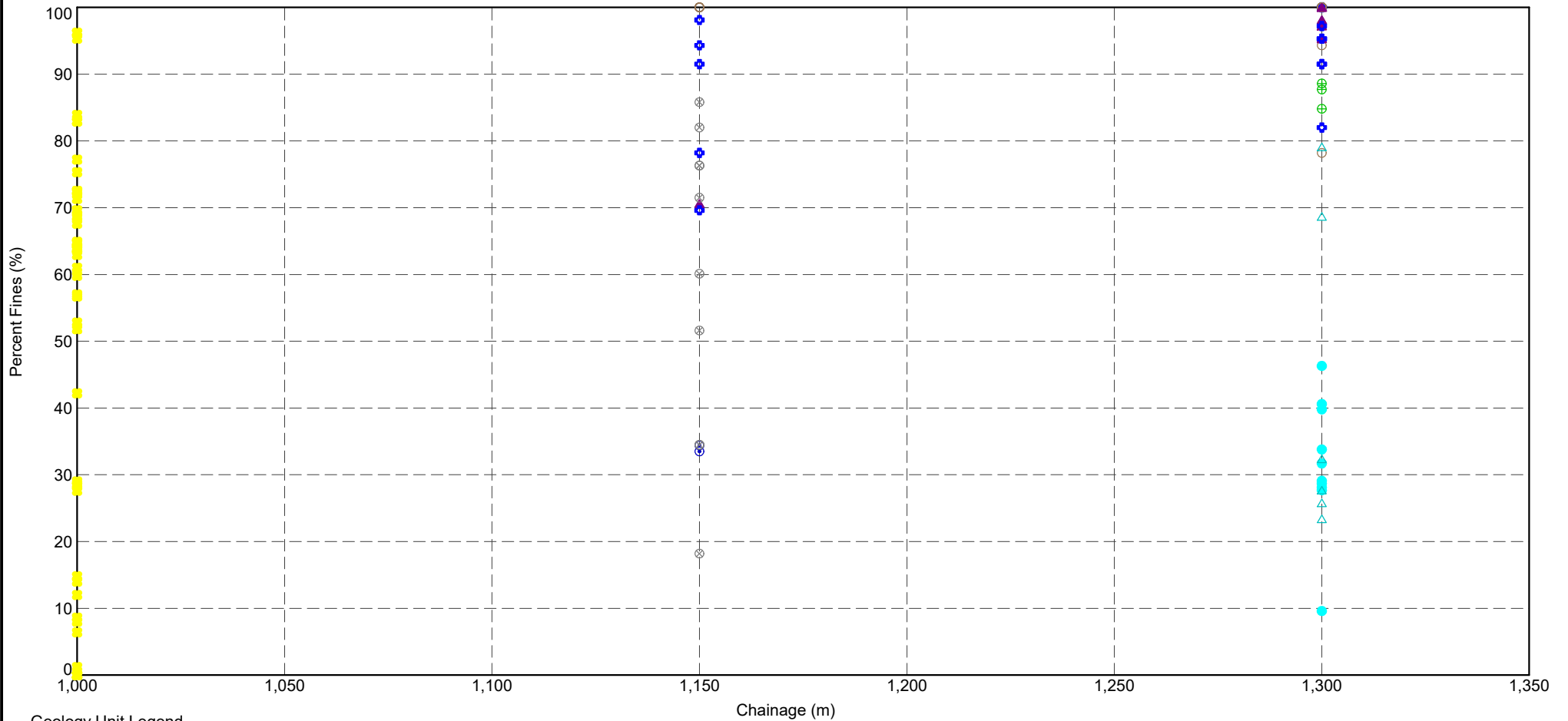
TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Percent Clay versus Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	212




PointID Legend
 ■ ST/1090A
 ■ ST/1149A
 ✖ ST/1162A/PZW

	TITLE	Datgel Engineer 1 Somewhere, World Construction Project Percent Fines versus Chainage		DRAWN	PMW	DATE	9/9/2020
				CHECKED		DATE	9/9/2020
				SCALE	Not To Scale		A4
				PROJECT No	5.03.1	FIGURE No	213

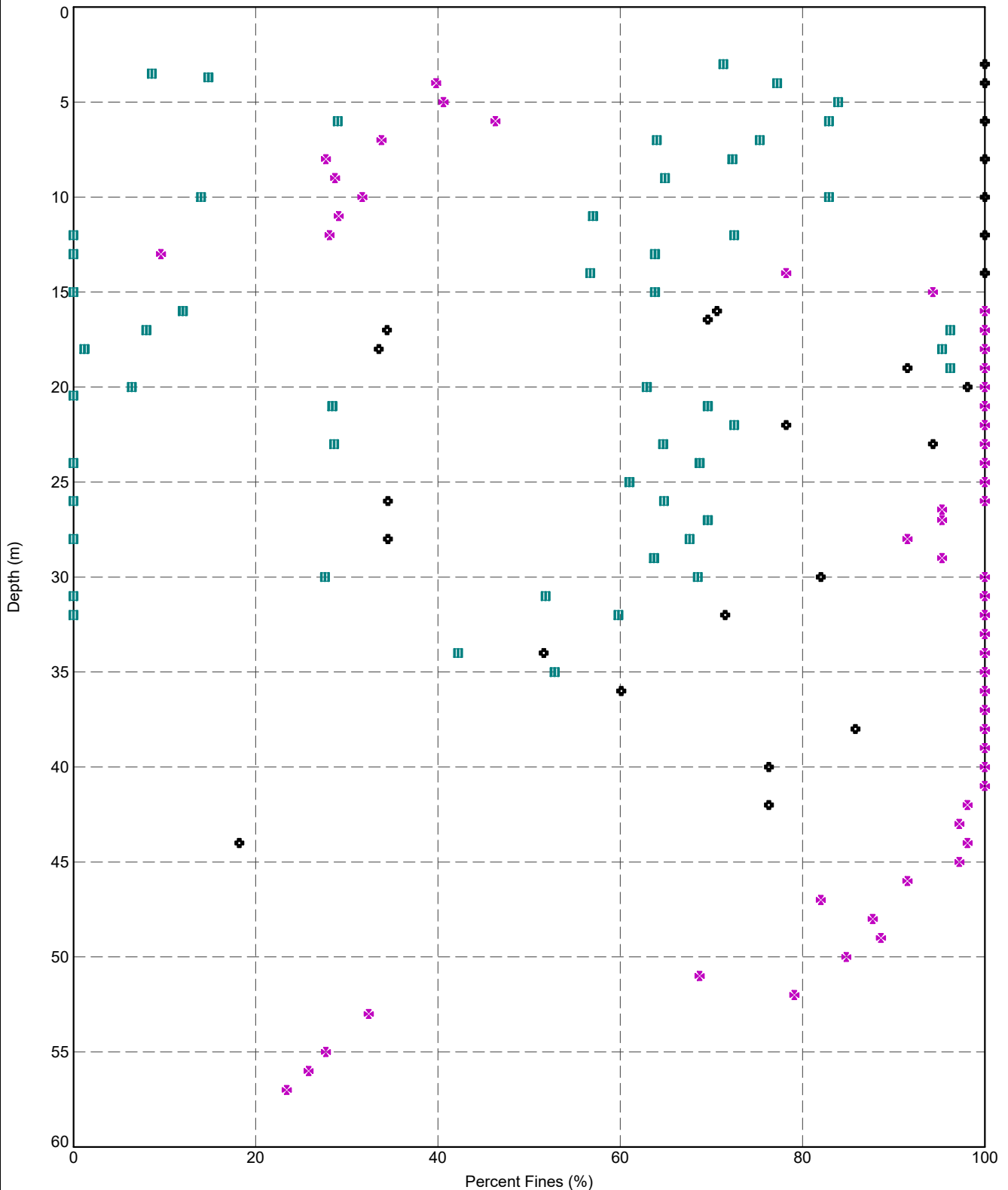


Geology Unit Legend

- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- F1 - Alluvial soil (Granular)
- ⊕ F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- △ O(A) - Old Alluvium (Unweathered)
- ⊗ O(B) - Old Alluvium (Partially weathered)
- ⊕ O(C) - Old Alluvium (Distinctly weathered)
- G(VI) - Granite (rocks & associated soils) Residua...
- G(V) - Granite (rocks & associated soils) Complete...
- ✱ G(IV) - Granite (rocks & associated soils) Highly ...
- G(III) - Granite (rocks & associated soils) Modera...
- G(II) - Granite (rocks & associated soils) Slightl...

 Geotechnics • Geoenvironment • Laboratory	TITLE	Datgel Engineer 1 Somewhere, World Construction Project Percent Fines versus Chainage		DRAWN	PMW	DATE	9/9/2020
				CHECKED		DATE	9/9/2020
				SCALE	Not To Scale		A4
				PROJECT No	5.03.1	FIGURE No	214

DGD1.P.5.03.2.LIB.GLB Graph A.LCS PERCENT FINES VS DEPTH BY PTID DGD1.P.5.03.2.GPJ <<DrawingFile>> 9/9/2020 16:46:10.01.00.11 Datgel Lab and In Situ Tool - DGD | Lib:DGD1.P.5.03.2.2020-09-08 Proj:DGD1-DIST.5.03.1.2020-09-05



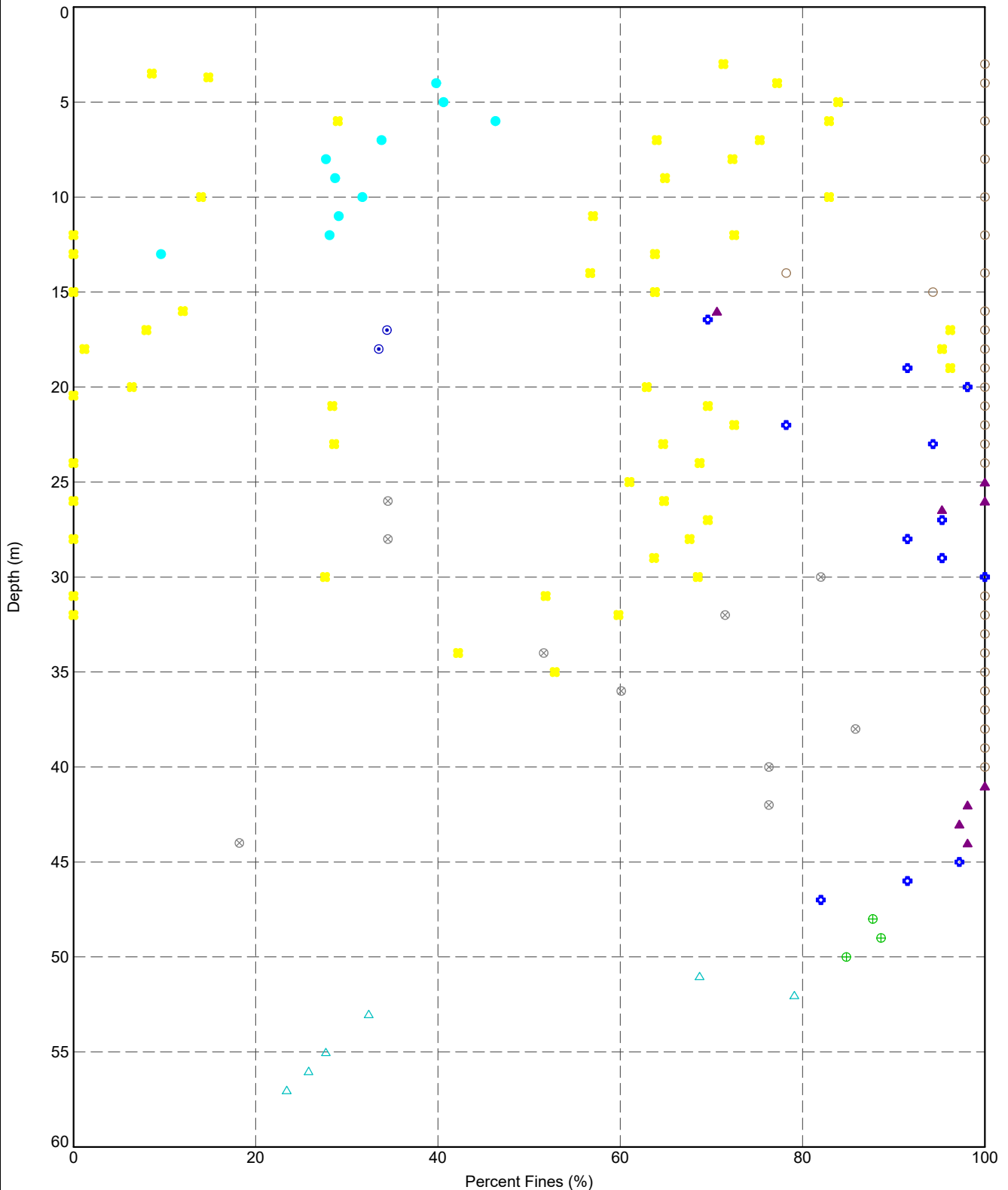
PointID Legend
 ■ ST/1090A
 ◆ ST/1149A
 ✕ ST/1162A/PZW



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Percent Fines versus Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	215

DGD1-P-5.03.1-LCS PERCENT FINES VS DEPTH BY UNIT DGD1-P-5.03.2-2020-08-08 Proj: DGD1-P-5.03.1-2020-09-05
 <<DrawingFile>> 9/9/2020 16:48 10.01.00.11 Datgel Lab and In Situ Tool - DGD [Lib: DGD1-P-5.03.2-2020-08-08 Proj: DGD1-P-5.03.1-2020-09-05]



Geology Unit Legend

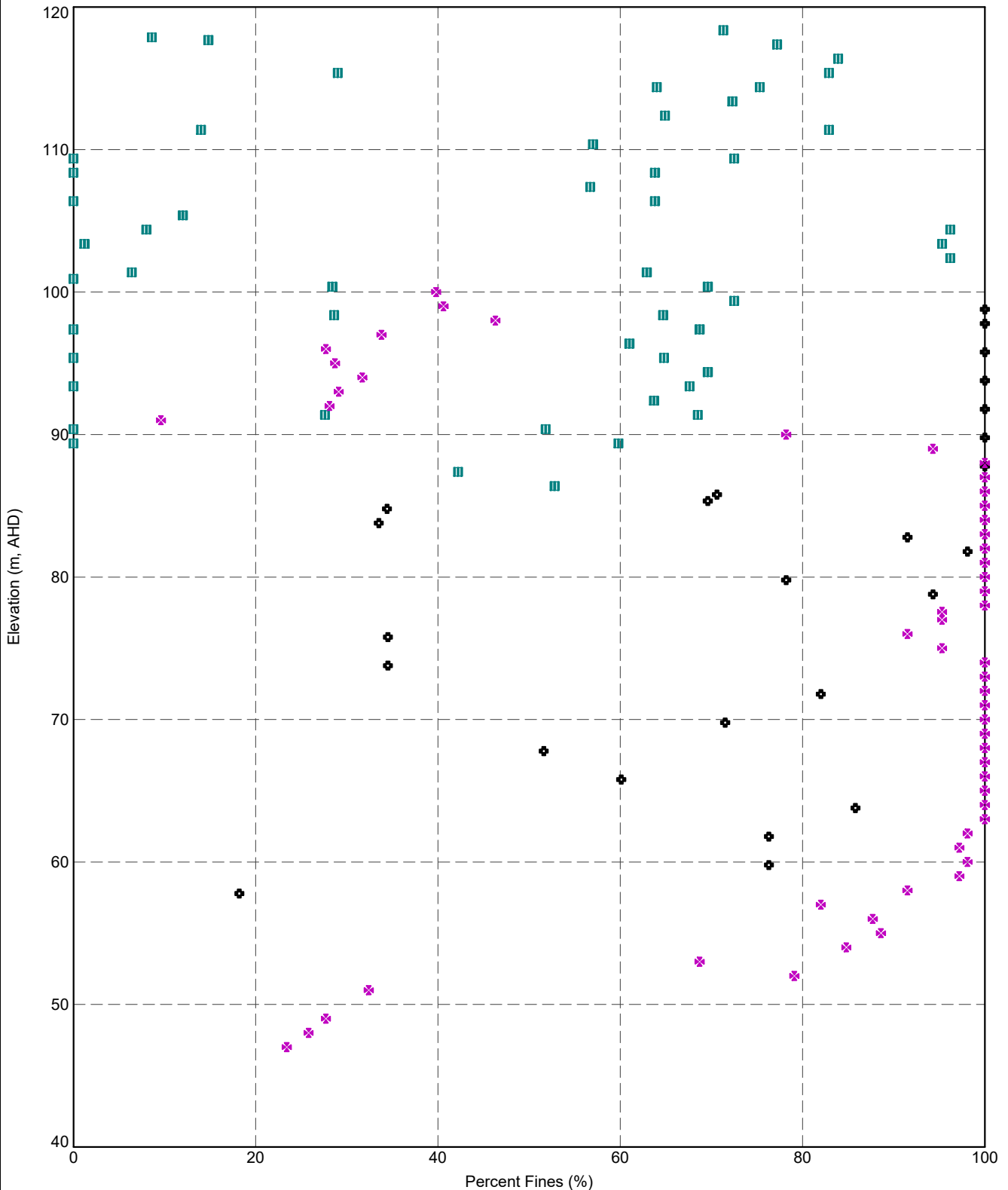
- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- F1 - Alluvial soil (Granular)
- ⊕ F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- △ O(A) - Old Alluvium (Unweathered)
- ⊗ O(B) - Old Alluvium (Partially weathered)
- ⊕ O(C) - Old Alluvium (Distinctly weathered)
- G(VI) - Granite (rocks & associated soils) Residua...
- G(V) - Granite (rocks & associated soils) Complete...
- ✱ G(IV) - Granite (rocks & associated soils) Highly ...
- G(III) - Granite (rocks & associated soils) Modera...
- G(II) - Granite (rocks & associated soils) Slightl...



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Percent Fines versus Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	216

DGD1-P.5.03.2.LIB.GLB_Graph_A.LCS PERCENT FINES V/S RL BY PTTID DGD1-P.5.03.2.GPJ <<DrawingFile>> 9/9/2020 16:46 10.01.00.11_Datgel Lab and In Situ_Tool_DGD1-P.5.03.2.20200908.Fly_DGD1-DLST 5.03.1.2020-09-05



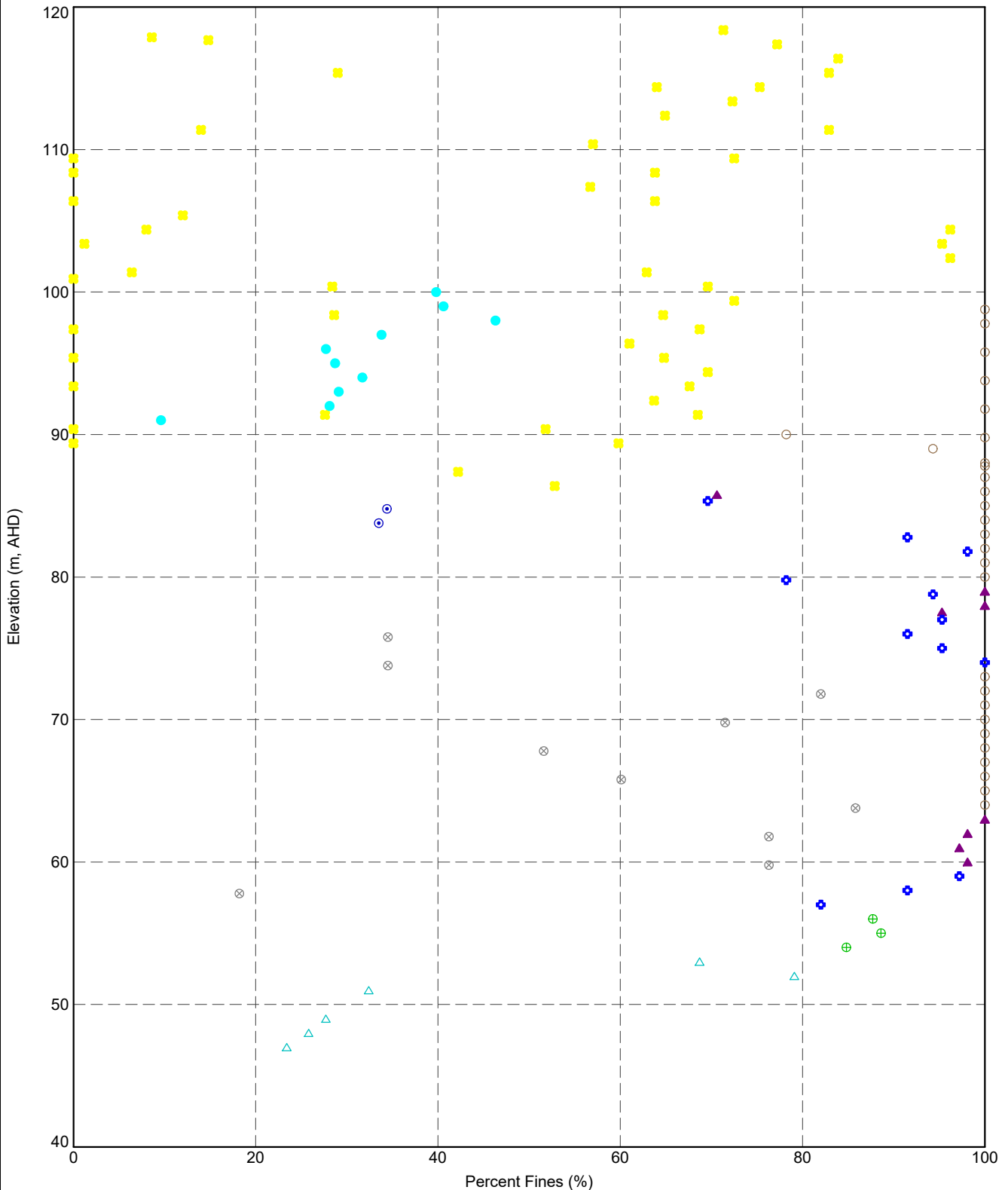
PointID Legend
■ ST/1090A
● ST/1149A
✕ ST/1162A/PZW



TITLE
Datgel
Engineer 1
Somewhere, World
Construction Project
Percent Fines versus Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	217

DGD1-P-5.03.1-LIB-GLB-Graph-A-LCS PERCENT FINES VS RL BY UNIT DGD1-P-5.03.2.GPJ <<DrawingFiles>> 9/9/2020 16:48 10.01.00.11 Datgel Lab and In Situ Tool_DGD1-Lib_DGD1-P-5.03.2.2020-09-08 Pj_DGD1-DLST 5.03.1.2020-09-08



Geology Unit Legend

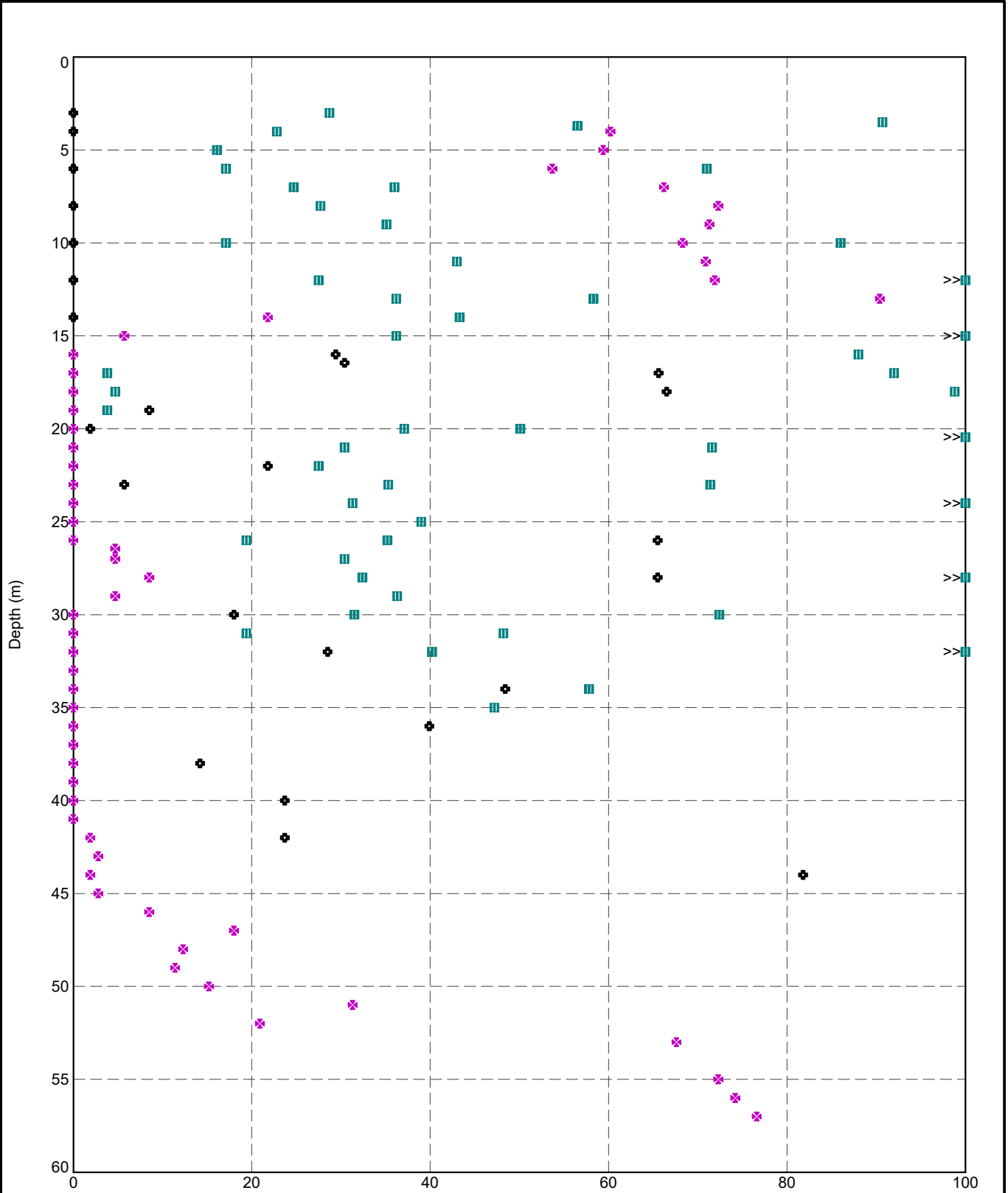
- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- F1 - Alluvial soil (Granular)
- F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- ▲ O(A) - Old Alluvium (Unweathered)
- ⊗ O(B) - Old Alluvium (Partially weathered)
- ⊕ O(C) - Old Alluvium (Distinctly weathered)
- G(VI) - Granite (rocks & associated soils) Residua...
- G(V) - Granite (rocks & associated soils) Complete...
- ✱ G(IV) - Granite (rocks & associated soils) Highly ...
- G(III) - Granite (rocks & associated soils) Modera...
- G(II) - Granite (rocks & associated soils) Slightl...



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Percent Fines versus Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	218

DGD1-P.5.03.2.LIB.GLB_Graph_A.LCS PERCENT SAND VS DEPTH BY PTID_DGD1-P.5.03.2.GPJ <<DrawingFile>> 9/9/2020 16:46:10.01.00.11_Datgel.Lab.and.In.Situ.Tool_DGD1 | Lib: DGD1-P.5.03.2.2020-09-08 Proj: DGD1-DUST.5.03.1.2020-09-05



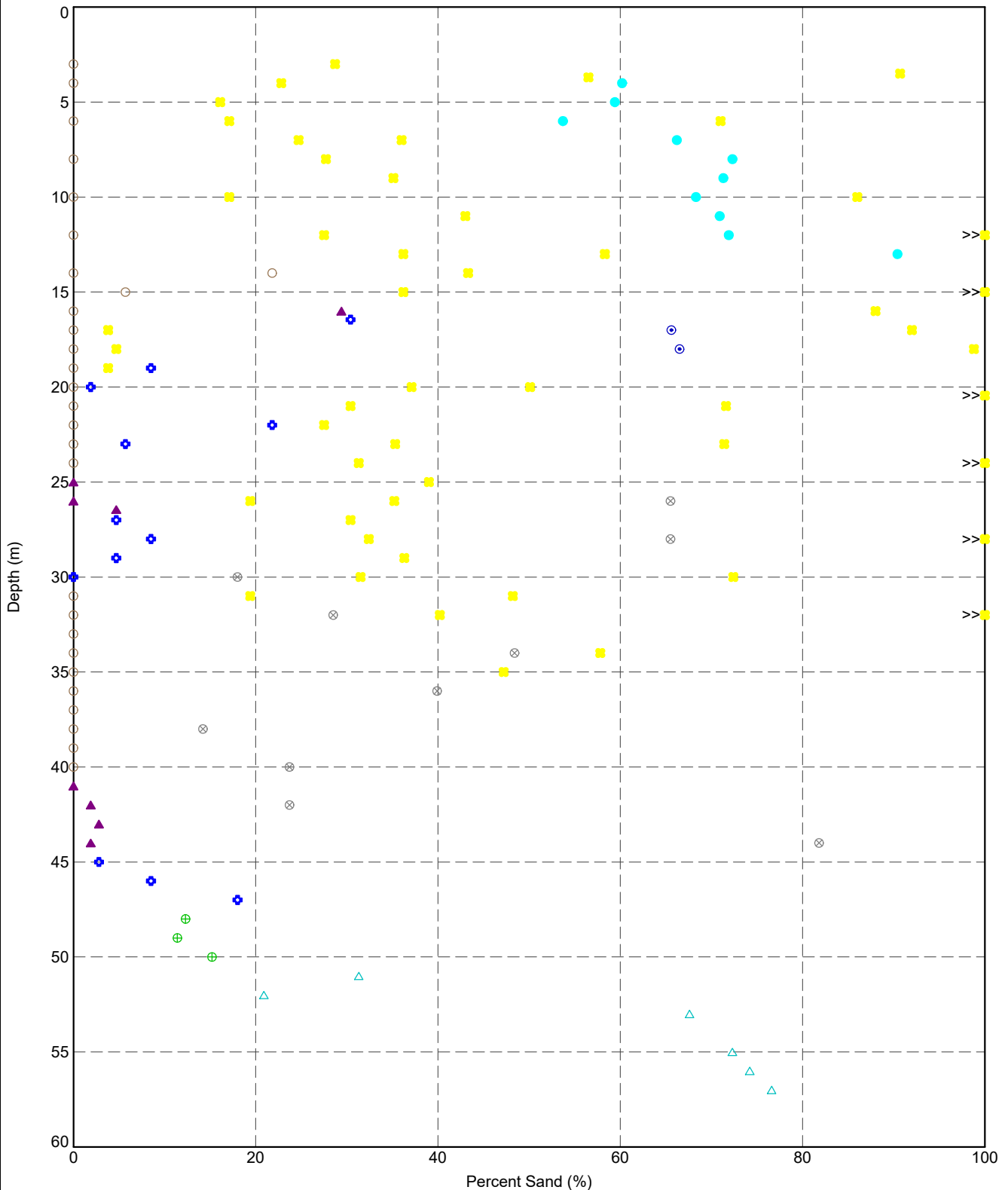
PointID Legend
■ ST/1090A
◆ ST/1149A
× ST/1162A/PZW



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Percent Sand versus Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	219

DGD1-P-5.03.1-CS PERCENT SAND VS DEPTH BY UNIT DGD1-P-5.03.2.GPJ <<DrawingFile>> 9/9/2020 16:46 1001.00.11 Datgel Lab and In Situ Tool - DGD | Lib: DGD1-P-5.03.2_2020-09-08 Proj: DGD1-DIST 5.03.1.2020-09-05



Geology Unit Legend

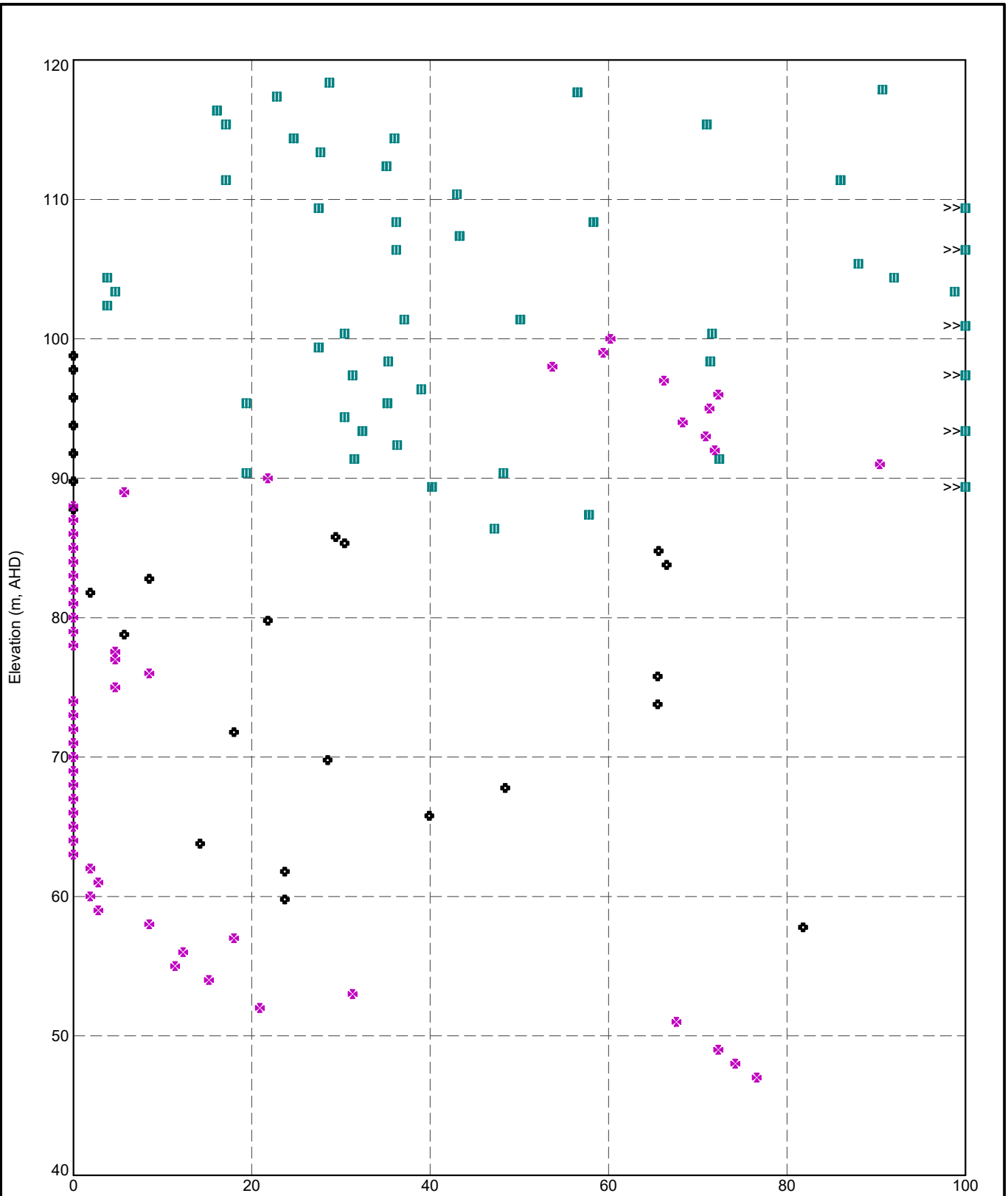
- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- ◆ F1 - Alluvial soil (Granular)
- ◆ F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- △ O(A) - Old Alluvium (Unweathered)
- ⊗ O(B) - Old Alluvium (Partially weathered)
- ⊕ O(C) - Old Alluvium (Distinctly weathered)
- G(VI) - Granite (rocks & associated soils) Residua...
- G(V) - Granite (rocks & associated soils) Comple...
- ✱ G(IV) - Granite (rocks & associated soils) Highly ...
- G(III) - Granite (rocks & associated soils) Modera...
- G(II) - Granite (rocks & associated soils) Slightl...



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Percent Sand versus Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	220

DGD1.P.5.03.2.LIB.GLB_Graph A.LCS PERCENT SAND VS RL BY PLOT DGD1.P.5.03.2.GPJ <<DrawingFile>> 9/9/2020 16:46 10.01.00.11 Datgel Lab and in Situ Tool - DGD1.LIB.DGD1.P.5.03.2.20200908 Pli DGD1.DLST.5.03.1.2020-08-05



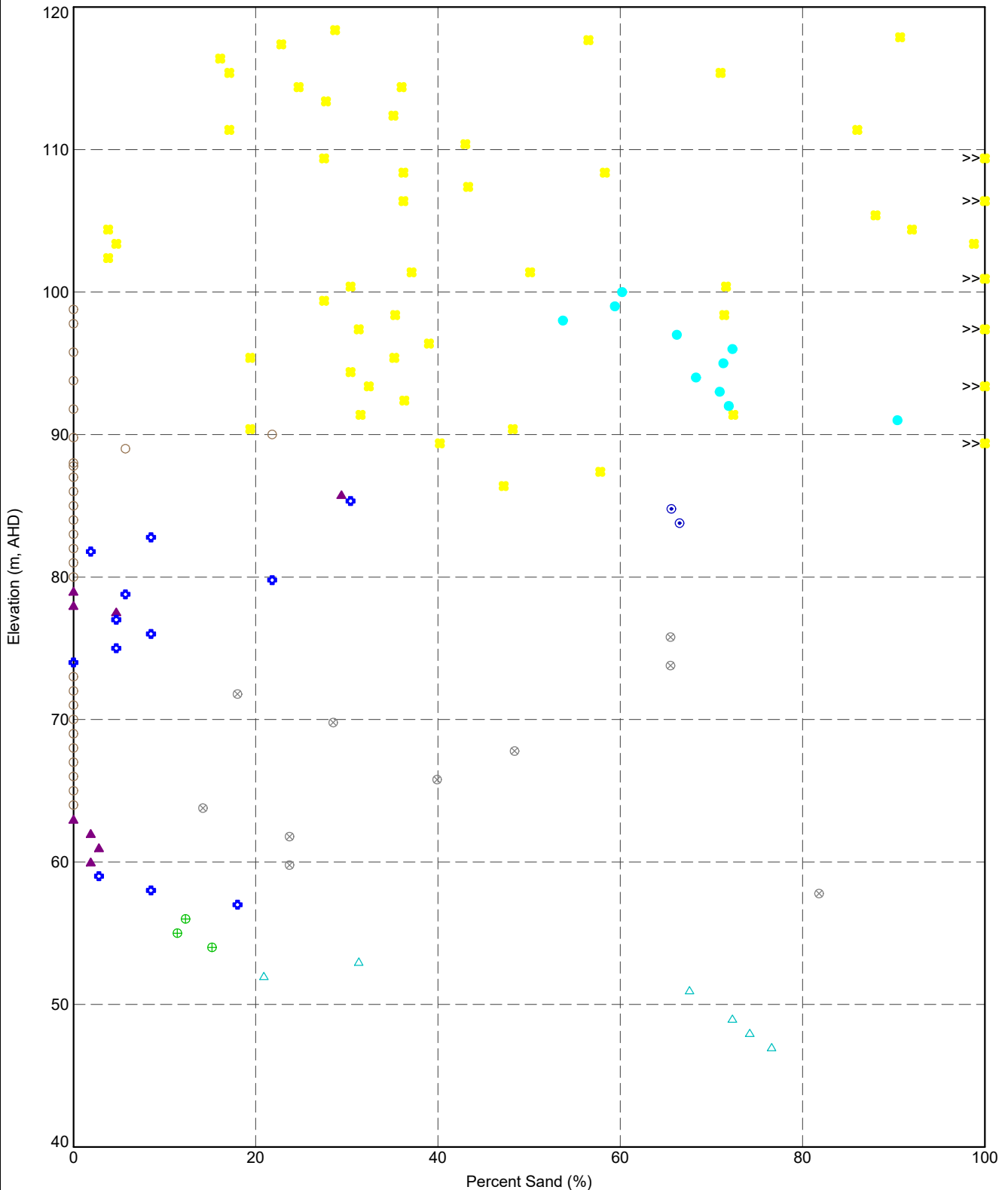
PointID Legend
■ ST/1090A
◆ ST/1149A
× ST/1162A/PZW



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Percent Sand versus Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	221

DGD1-P-5.03.1-UB-GLB-Graph-A-1-CS-PERCENT SAND VS RL BY UNIT DGD1-P-5.03.2-2020-09-08 PH; DGD1-DLST-5.03.1-2020-09-06
 9/9/2020 16:46 -10,01,00,1,1 Datgel Lab and in Situ Test - DGD1-P-5.03.2-2020-09-08 PH; DGD1-DLST-5.03.1-2020-09-06



Geology Unit Legend

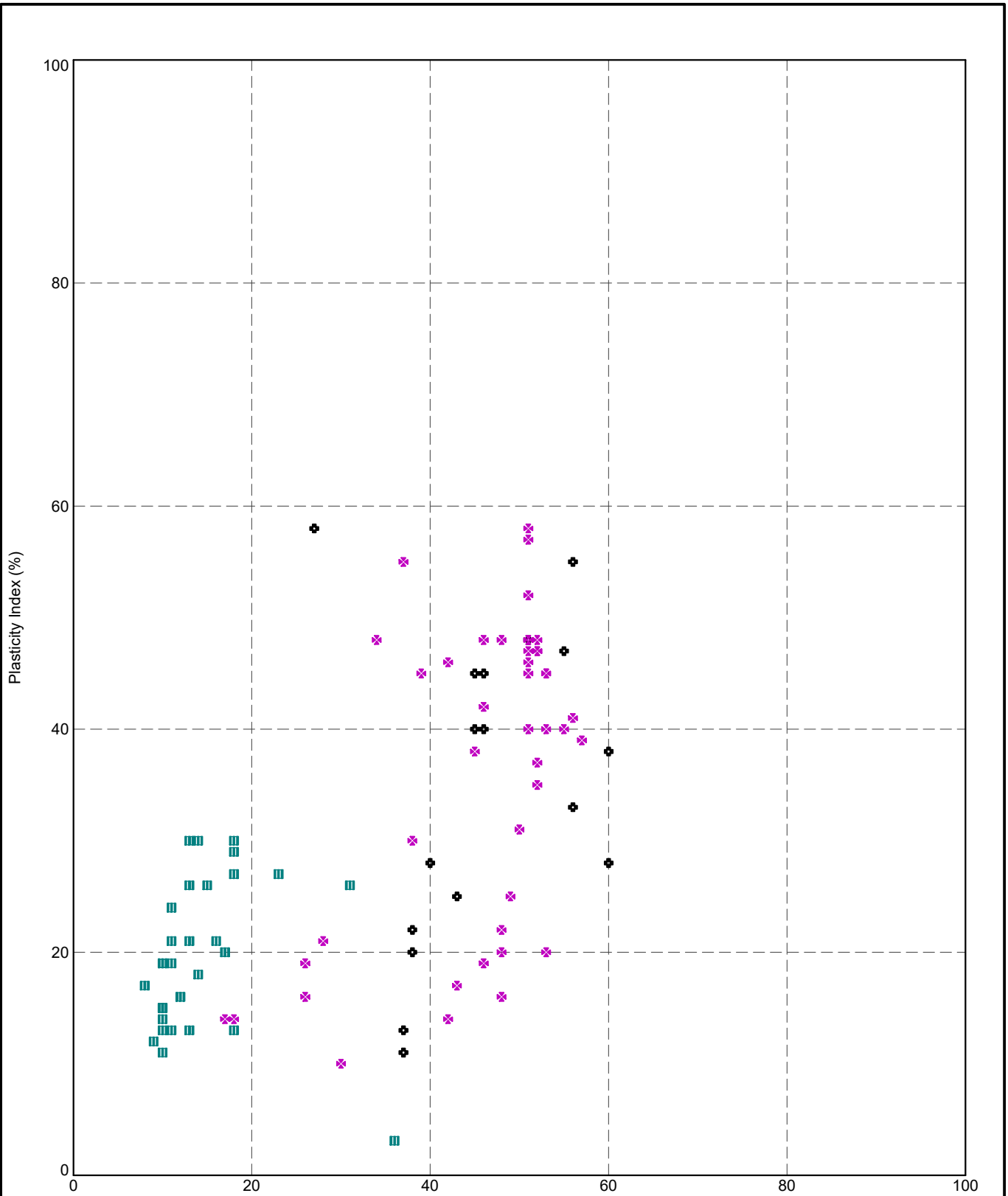
- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- F1 - Alluvial soil (Granular)
- F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- ▲ O(A) - Old Alluvium (Unweathered)
- ⊗ O(B) - Old Alluvium (Partially weathered)
- ⊕ O(C) - Old Alluvium (Distinctly weathered)
- G(VI) - Granite (rocks & associated soils) Residua...
- G(V) - Granite (rocks & associated soils) Comple...
- ★ G(IV) - Granite (rocks & associated soils) Highly ...
- G(III) - Granite (rocks & associated soils) Modera...
- G(II) - Granite (rocks & associated soils) Slightl...



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Percent Sand versus Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	222

DGD1-P-5.03.1-UB-GLB_Graph_A1_CS_PLUS_PERCENT_CLAY_BY_PTID_DGD1-P-5.03.2-2020-09-08_Plot_DGD1-DLST-5.03.1-2020-09-05
 99/2020 16:46 10.01.00.11 Datgel Lab and In Situ Tool - DGD [Lib: DGD1-P-5.03.2-2020-09-08_Plot_DGD1-DLST-5.03.1-2020-09-05]



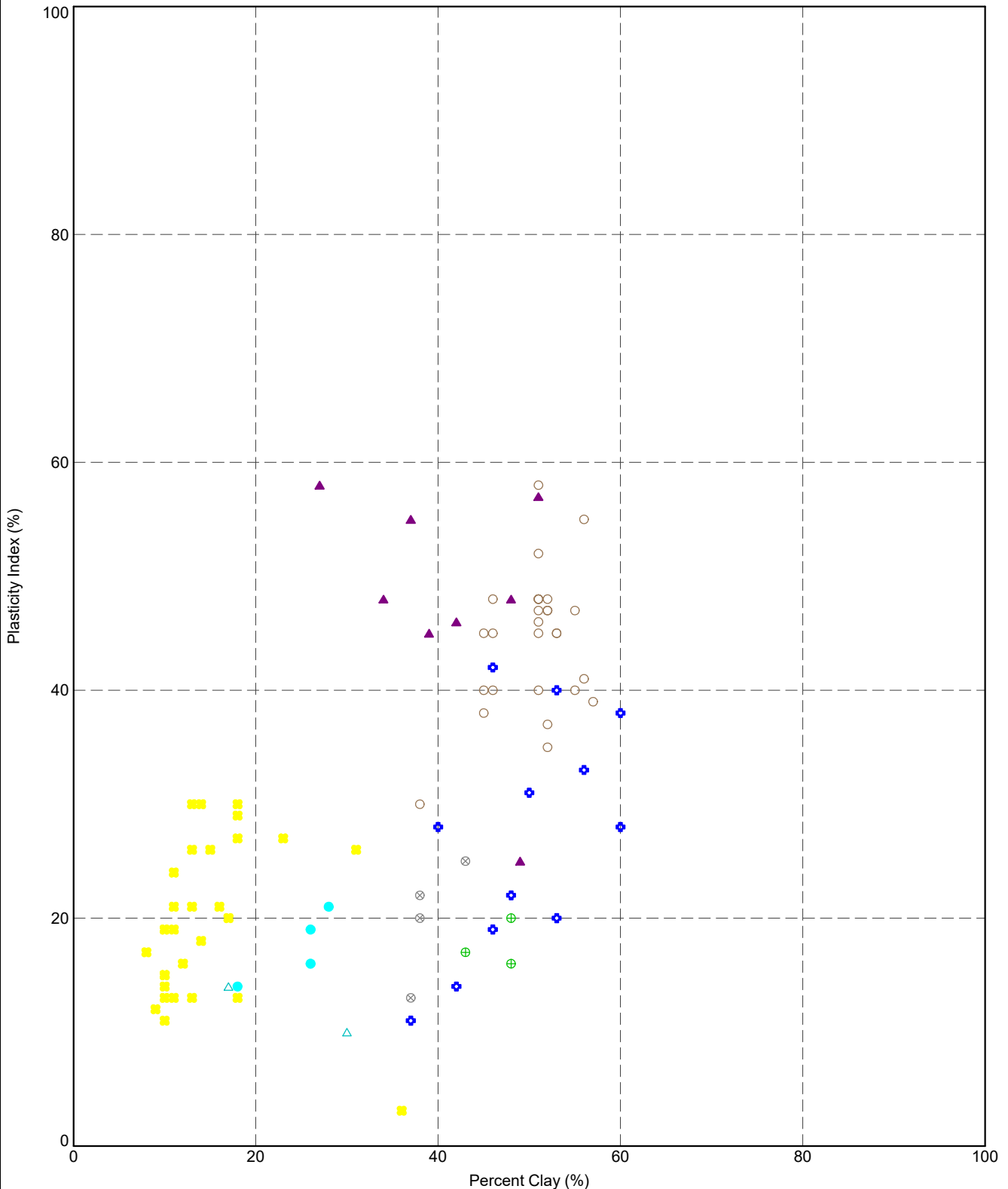
PointID Legend
 ■ ST/1090A
 ◆ ST/1149A
 ✕ ST/1162A/PZW



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Plasticity Index versus Percent Clay

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	223

DGDTP.5.03.1.GLB Graph A.L.CS PLUS PERCENT CLAY BY UNIT DGDTP.5.03.2.GPJ --DrawingFile-- 9/9/2020 16:46 10.01.00.11 Datgel Lab and In Situ Tool - DGD Lib: DGDTP.5.03.2.2020-09-08.Pjt DGDTP.DLST 5.03.1.2020-09-05



Geology Unit Legend

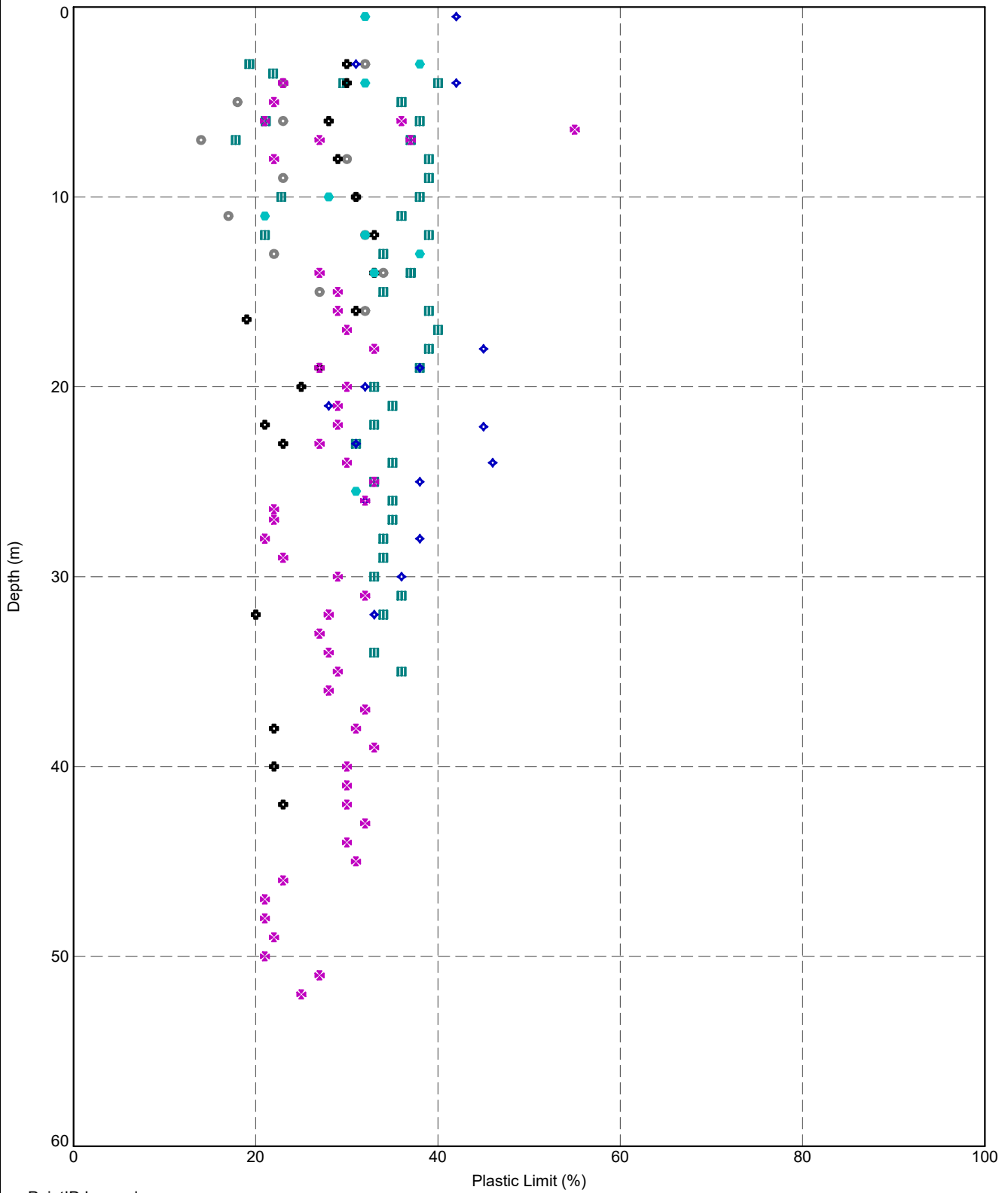
- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- F1 - Alluvial soil (Granular)
- ◆ F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- ▲ O(A) - Old Alluvium (Unweathered)
- ⊗ O(B) - Old Alluvium (Partially weathered)
- ⊕ O(C) - Old Alluvium (Distinctly weathered)
- G(VI) - Granite (rocks & associated soils) Residua...
- G(V) - Granite (rocks & associated soils) Complete...
- ✱ G(IV) - Granite (rocks & associated soils) Highly ...
- G(III) - Granite (rocks & associated soils) Modera...
- G(II) - Granite (rocks & associated soils) Slightl...



TITLE
Datgel
Engineer 1
Somewhere, World
Construction Project
Plasticity Index versus Percent Clay

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	224

DGDTP.5.03.2.LIB.GLB_Graph_A.LCS.PLASTIC LIMIT_VS_DEPTH_BY_PTID_DGDTP.5.03.2.GPJ --DrawingFile-- 9/8/2020 16:46 10.01.0011 Datgel Lab used in Silt Test - DGDTP.5.03.2.2020-09-08 PJ.DGDTP.DIST.5.03.1.2020-09-05



- PointID Legend
- ST/1090A
 - ST/1090B/PRM
 - ⊕ ST/1149A
 - ◆ ST/1149B/VST_PZW
 - ⊗ ST/1162A/PZW
 - ST/1162B/VST_PZW

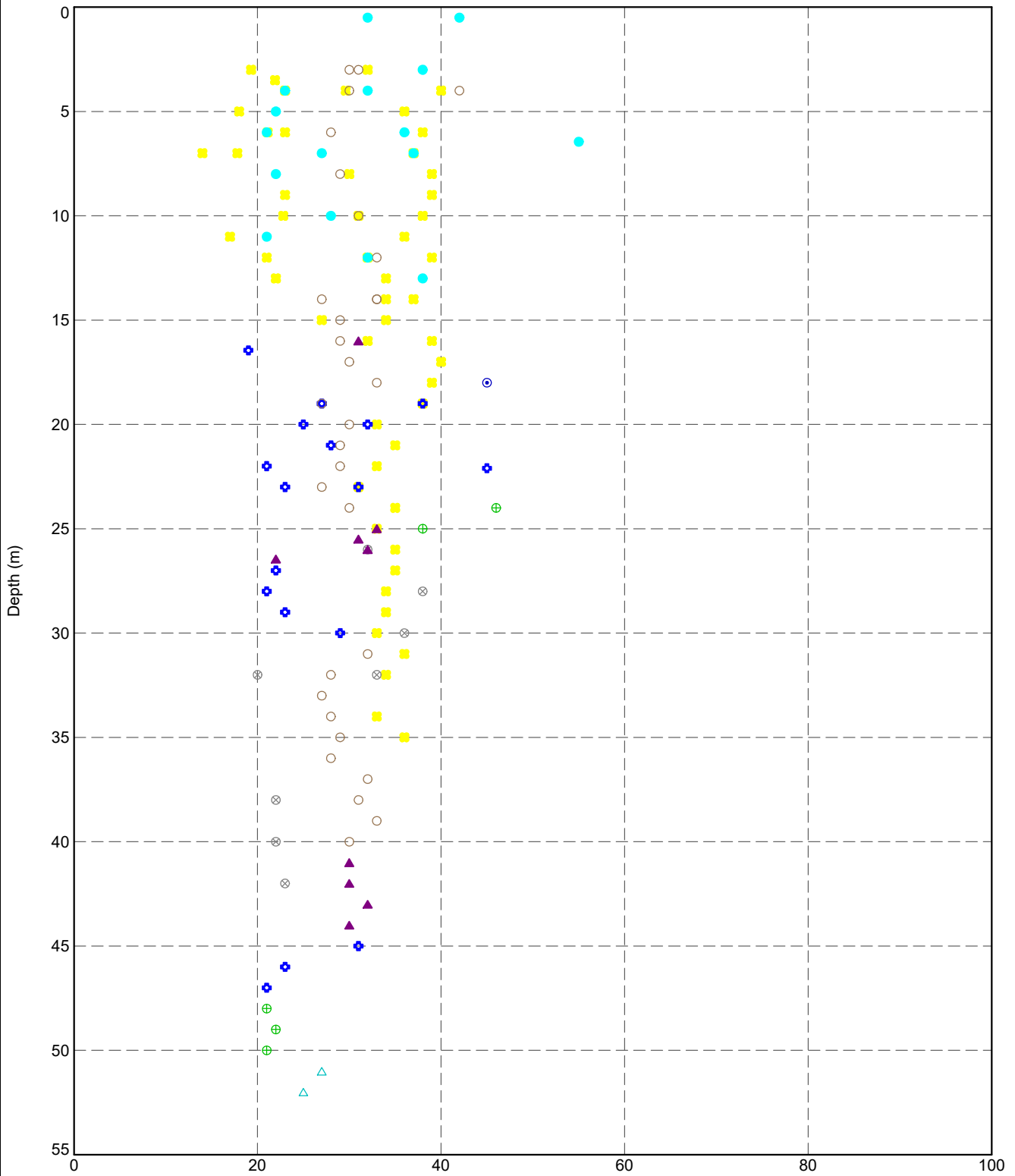


TITLE

Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Plastic Limit versus Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	225

DGDTP-5.03.1.GLB Graph A.LCS PLASTIC LIMIT VS DEPTH BY UNIT DGDTP-5.03.2.GPJ -DrawingFile>> 9/9/2020 16:46 10.01.00.11 Datgel Lab and In Situ Tool - DGD [Lib: DGDTP-5.03.2.2020-09-09.Pjt] DGDTP-5.03.1.2020-09-05



Geology Unit Legend

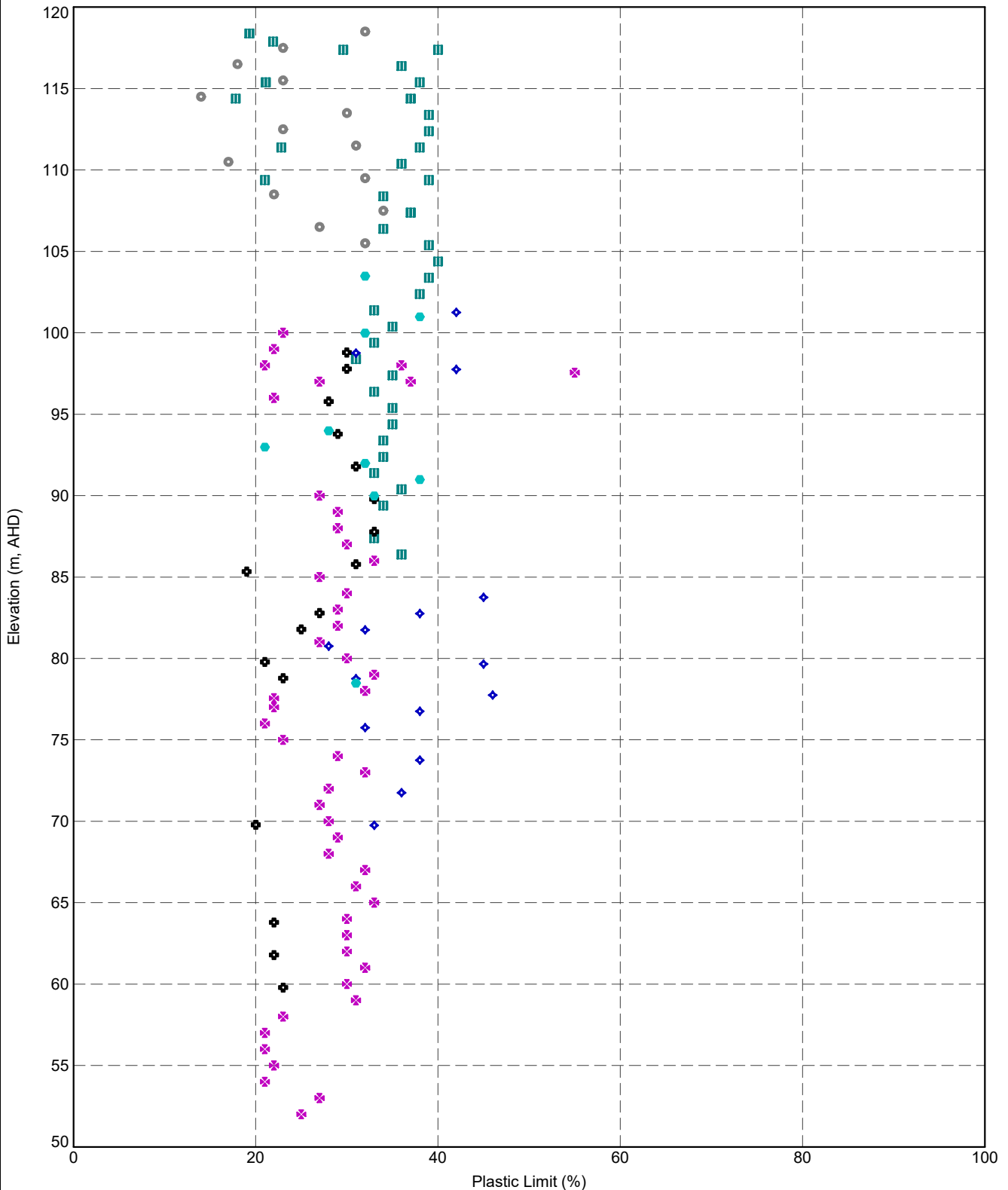
- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- F1 - Alluvial soil (Granular)
- F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- ▲ O(A) - Old Alluvium (Unweathered)
- ⊗ O(B) - Old Alluvium (Partially weathered)
- ⊕ O(C) - Old Alluvium (Distinctly weathered)
- G(VI) - Granite (rocks & associated soils) Residua...



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Plastic Limit versus Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	226

DGDTP-5.03.1-UB.GLB Graph A.LCS PLASTIC LIMIT.VS.RL BY:PTID_DGDTP-5.03.2.2020-09-08 Proj: DGDTP-DLST.5.03.1.2020-09-05



- PointID Legend
- ST/1090A
 - ST/1090B/PRM
 - ⊕ ST/1149A
 - ◆ ST/1149B/VST_PZW
 - ⊗ ST/1162A/PZW
 - ST/1162B/VST_PZW

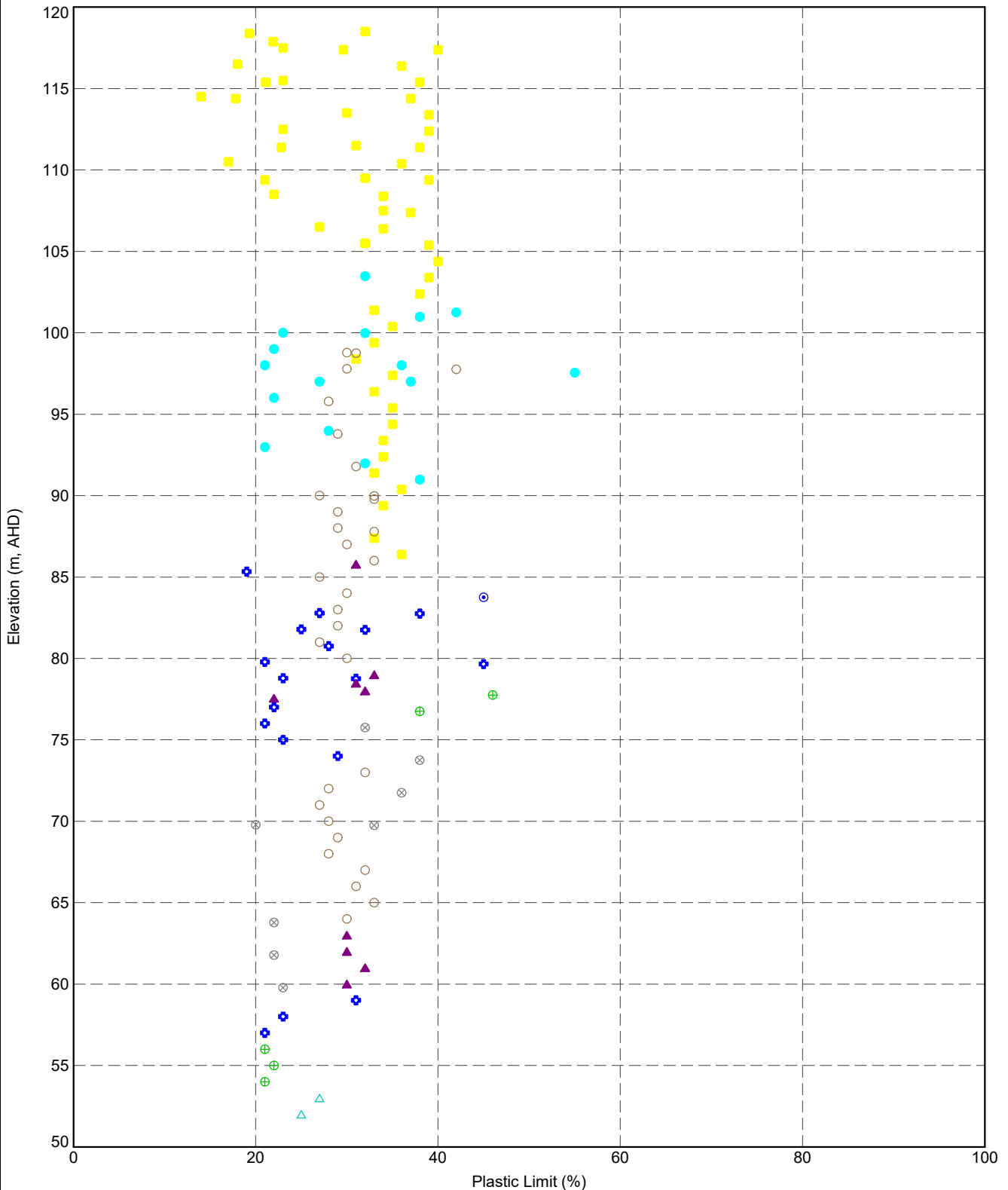


TITLE

Datgel
Engineer 1
Somewhere, World
Construction Project
Plastic Limit versus Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	227

DGD1-P.5.03.1.GLB Graph A.L.CS PLASTIC LIMIT VS RL BY UNIT: DGD1-P.5.03.2.GPJ <<DrawingFile>> 9/9/2020, 16:47, 10.01.00.11, Datgel.Lab and In Situ.Tod - DGD | Lib: DGD1-P.5.03.2, 2020-09-08 Proj: DGD1-DLST.5.03.1, 2020-09-05



Geology Unit Legend

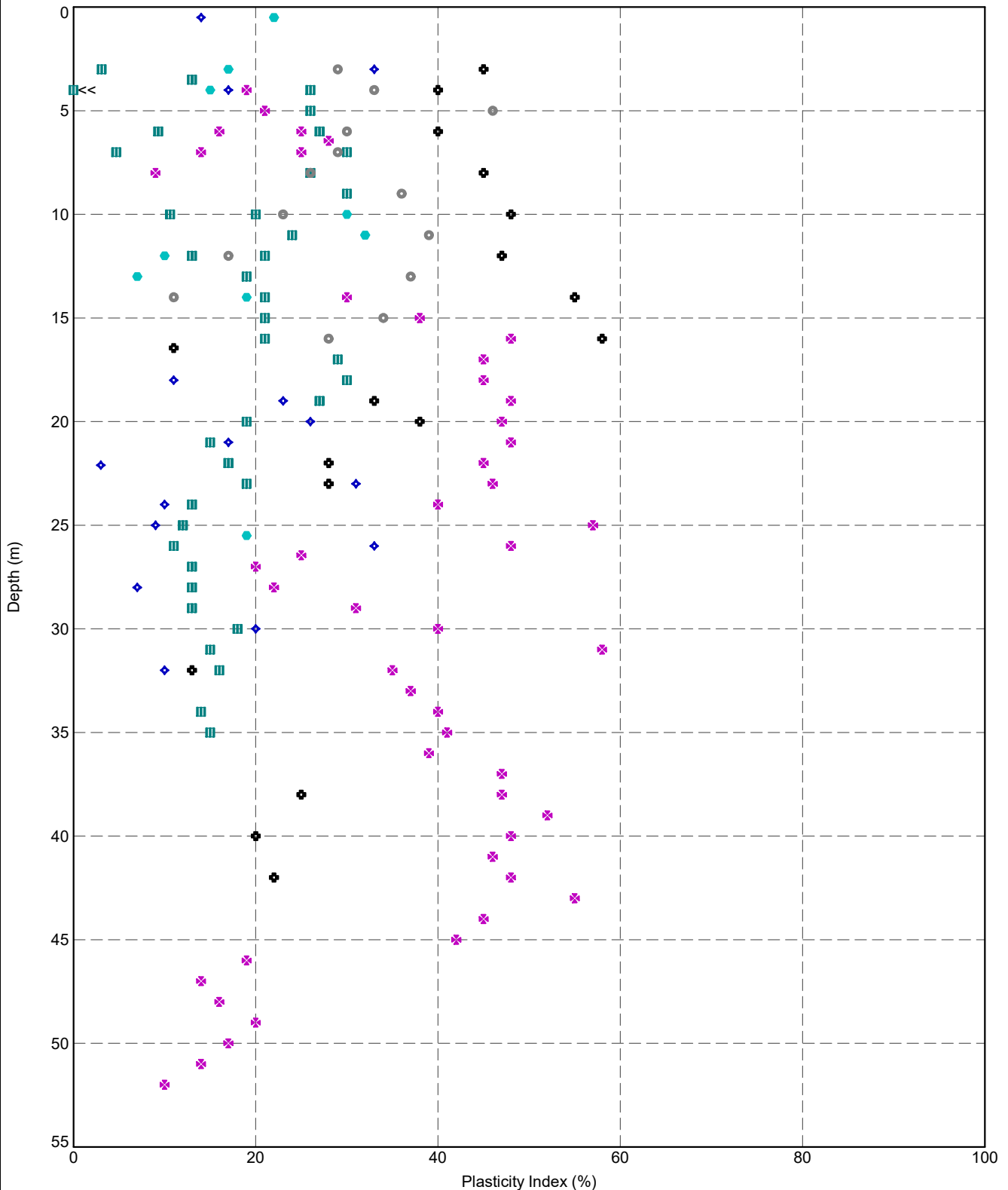
- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- F1 - Alluvial soil (Granular)
- ◆ F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- △ O(A) - Old Alluvium (Unweathered)
- ⊗ O(B) - Old Alluvium (Partially weathered)
- ⊕ O(C) - Old Alluvium (Distinctly weathered)
- G(VI) - Granite (rocks & associated soils) Residua...



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Plastic Limit versus Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	228

DGD1-F-5.03.2-UB.GLB Graph A.LCS PLASTICITY INDEX VS DEPTH BY P.TID DGD1-F-5.03.2-2020-09-08 P1 DGD1-DLST 5.03.1.2020-09-05



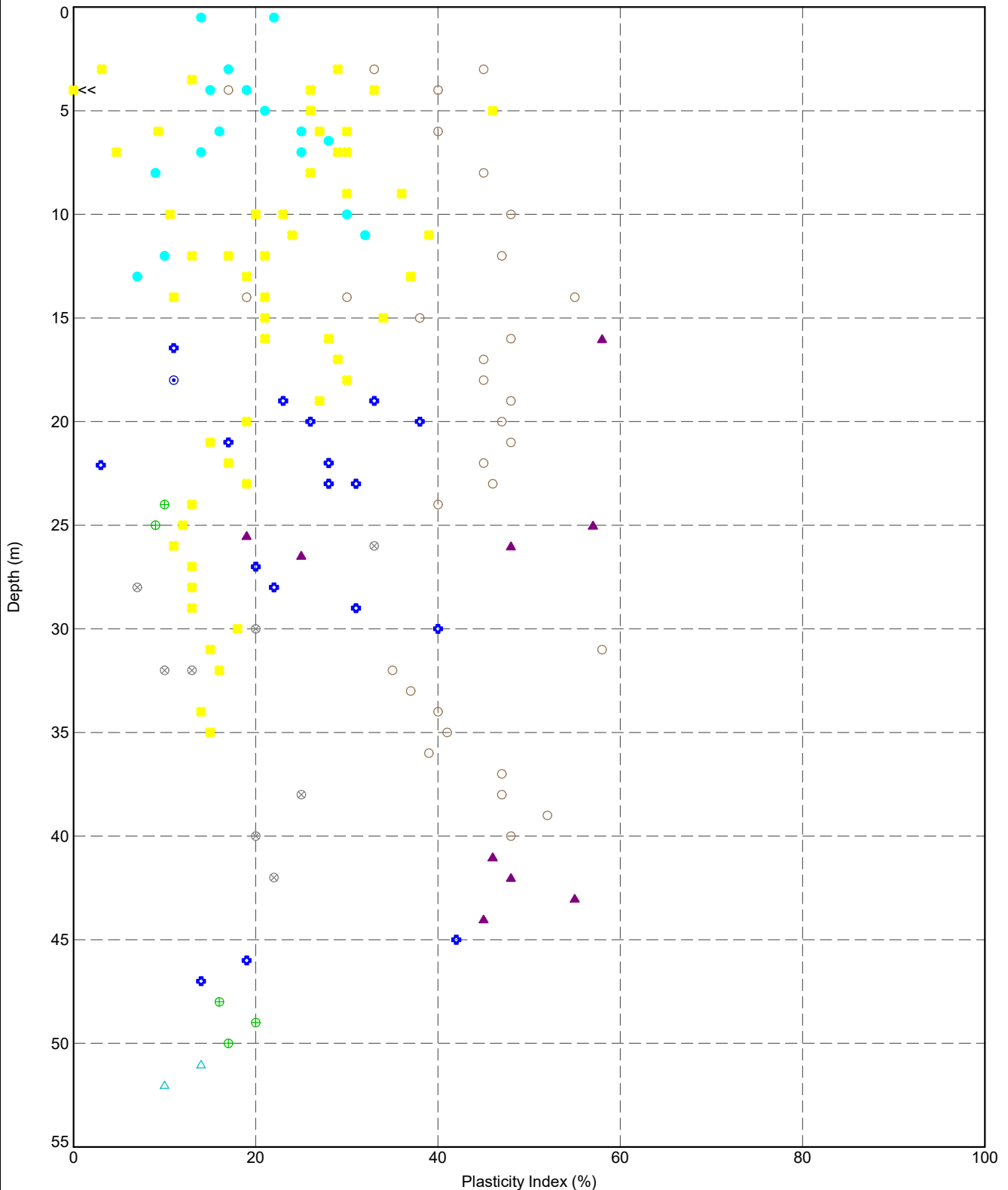
- PointID Legend
- ST/1090A
 - ST/1090B/PRM
 - ⊕ ST/1149A
 - ◆ ST/1149B/VST_PZW
 - ✕ ST/1162A/PZW
 - ST/1162B/VST_PZW



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Plasticity Index versus Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	229

DGD1-P-5.03.2-UB-GLB_Graph A1 CS PLASTICITY INDEX VS DEPTH BY UNIT_DGD1-P-5.03.2-2020-09-08 P1; DGD1-DLST 5.03.1 2020-09-05



Geology Unit Legend

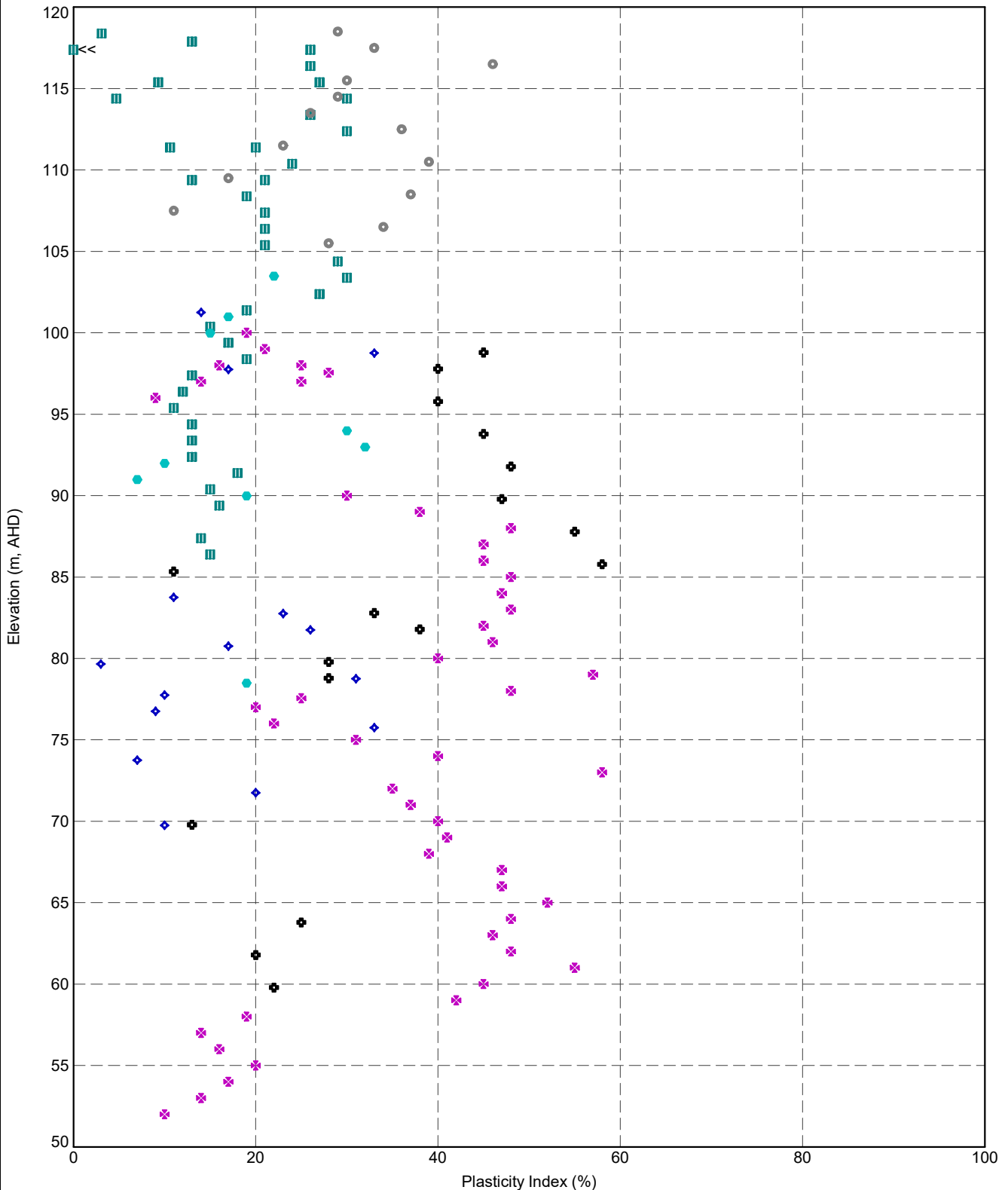
- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- F1 - Alluvial soil (Granular)
- ⊕ F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- △ O(A) - Old Alluvium (Unweathered)
- ⊗ O(B) - Old Alluvium (Partially weathered)
- ⊕ O(C) - Old Alluvium (Distinctly weathered)
- G(VI) - Granite (rocks & associated soils) Residua...



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Plasticity Index versus Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	230

DGDTP.5.03.2.LIB.GLB_Graph_A.LCS.PLASTICITY.INDEX.VS.RL.BY.PTID_DGDTP.5.03.2.GPJ --DrawingFile--> 9/9/2020 16:47 10.01.00.11 Datgel Lab and In Situ Tool - DGDTP.5.03.2.2020-09-09.Pjt_DGDTP.5.03.1_2020-09-05



- PointID Legend**
- ST/1090A
 - ST/1090B/PRM
 - ⊕ ST/1149A
 - ◆ ST/1149B/VST_PZW
 - ⊗ ST/1162A/PZW
 - ST/1162B/VST_PZW

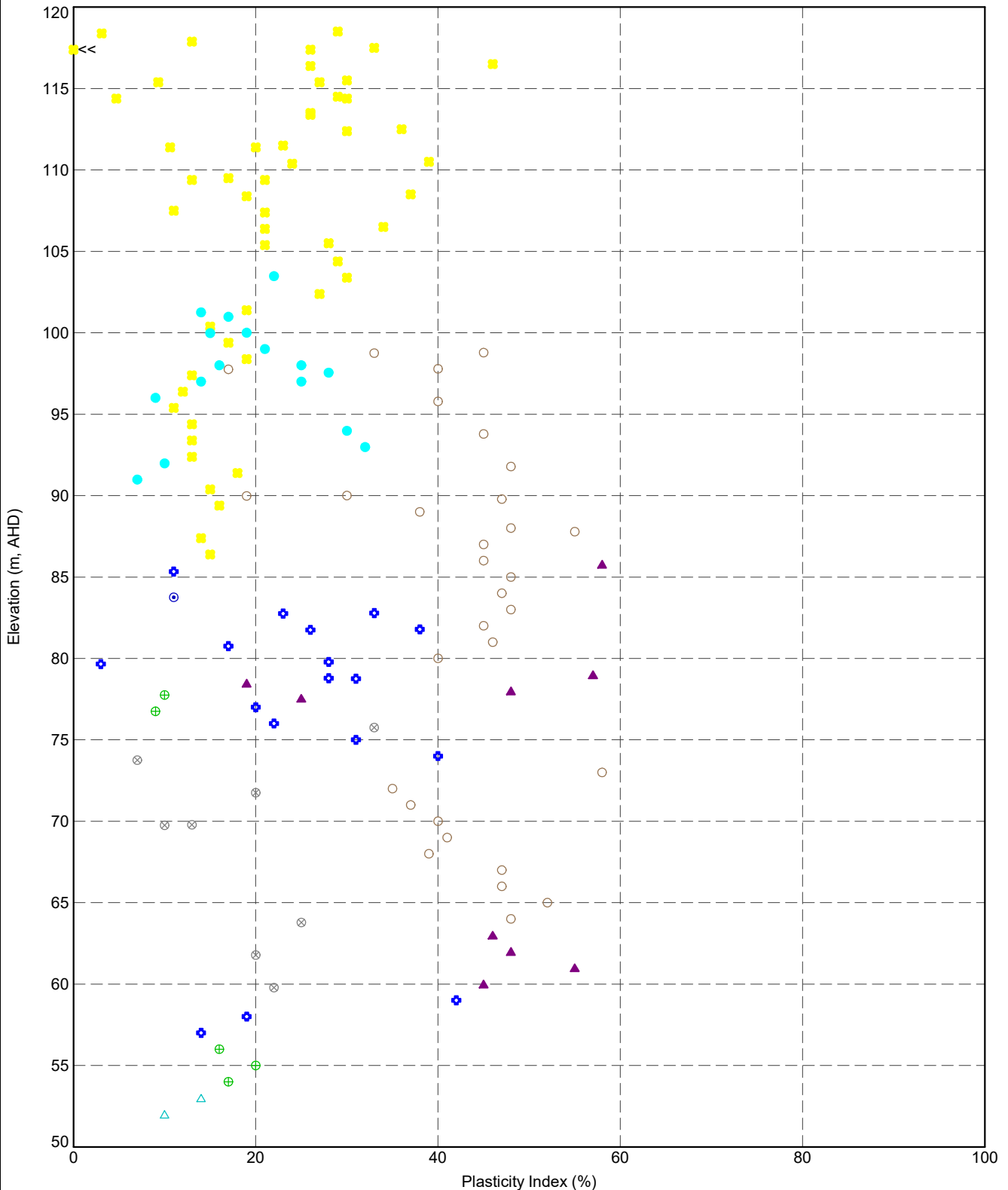


TITLE

Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Plasticity Index versus Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	231

DGD1-P.5.03.2.LIB.GLB_Graph_A.LCS.PLASTICITY.INDEX.VS.RL.BY.UNIT.DGD1-P.5.03.2.GPJ --DrawingFile--> 9/9/2020 16:47 10.01.0011 Datgel Lab used in Silt Test - DGD1 Lib - DGD1-P.5.03.2.2020-09-09 PJ - DGD1-CLIST 5.03.1.2020-09-05



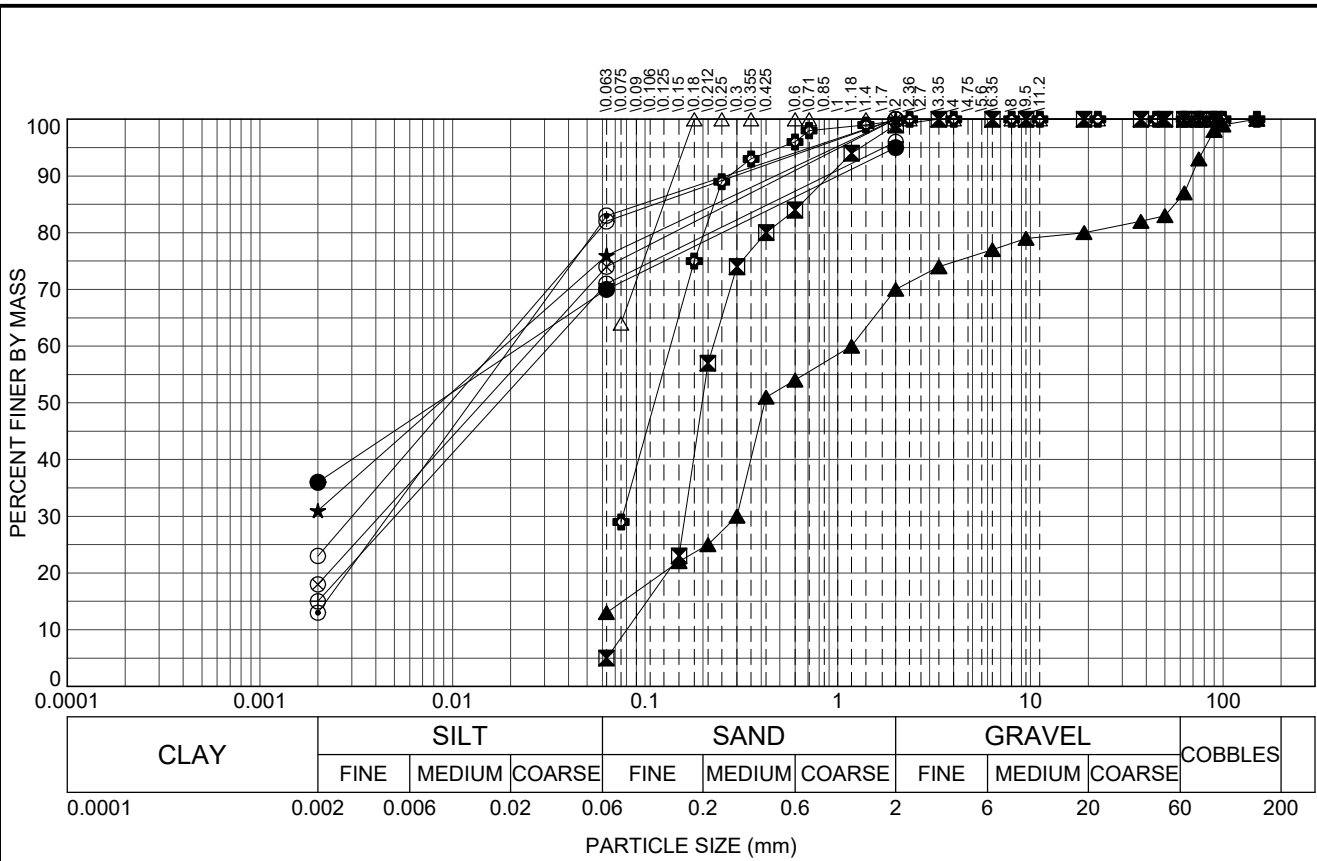
Geology Unit Legend

- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- F1 - Alluvial soil (Granular)
- F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- △ O(A) - Old Alluvium (Unweathered)
- ⊗ O(B) - Old Alluvium (Partially weathered)
- ⊕ O(C) - Old Alluvium (Distinctly weathered)
- G(VI) - Granite (rocks & associated soils) Residua...



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
Plasticity Index versus Elevation

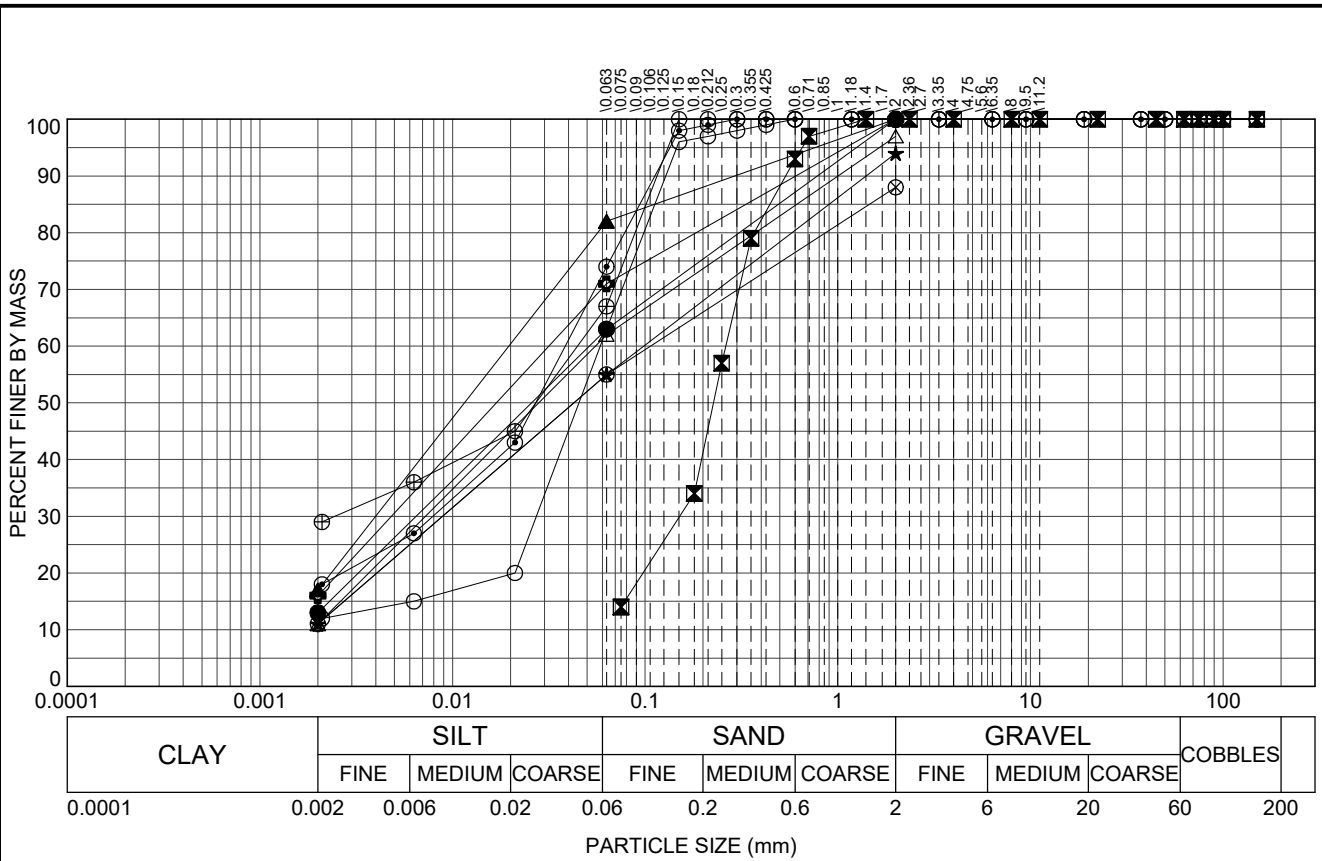
DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	232



DGDTP-5.03.1 LUB.GLB Graph A.LCS PSD 10 PER PAGE SUMMARY DGDTP-5.03.2 GPL <<DrawingFile>> 9/9/2020 16:47:10.01.00.11 Datgel.Lab and In Situ Tool - DGD (Lib: DGDTP-5.03.2 2020-09-08 Proj: DGDTP-DLST.5.03.1 2020-09-05)

Hole ID, Depth, Spec Ref	Classification											LL	PL	PI
● ST/1090A, 3.00, 1	Slightly sandy SILT (ML) of low plasticity, fine and coarse sand											22	19	3
⊠ ST/1090A, 3.50, 2	Clayey poorly graded SAND (SP) fine to medium sand, clay of intermediate plasticity											35	22	13
▲ ST/1090A, 3.70,	Silty gravelly SAND (SM) medium to coarse sand, fine and coarse gravel													
★ ST/1090A, 4.00, 2	Slightly sandy SILT (MH) of high plasticity, fine and coarse sand											66	40	26
⊙ ST/1090A, 5.00, 3	Slightly sandy SILT (MH) of high plasticity, fine and coarse sand											62	36	26
⊕ ST/1090A, 6.00, 1	Clayey SAND (SC) fine sand, clay of low plasticity											30	21	9
○ ST/1090A, 6.00, 4	Slightly sandy SILT (MH) of high plasticity, fine and coarse sand											65	38	27
△ ST/1090A, 7.00, 1	Sandy SILT (ML) of low plasticity, fine sand											23	18	5
⊗ ST/1090A, 7.00, 5	Slightly sandy SILT (MH) of high plasticity, fine and coarse sand											67	37	30
⊕ ST/1090A, 8.00, 6	Slightly sandy SILT (MH) of high plasticity, fine and coarse sand											65	39	26
Hole ID, Depth, Spec Ref	D100	D60	D50	D30	D10	Cc	Cu	DMF	%Boulders	%Cobbles	%Gravel	%Sand	%Silt	%Clay
● ST/1090A, 3.00, 1		0.0228	0.00828									28.7	35.3	71.3 36.0
⊠ ST/1090A, 3.50, 2	3.35	0.225	0.197	0.161	0.0802	1.436	2.812	0.2860	0.0	0.0	0.7	90.7	3.6	8.6
▲ ST/1090A, 3.70,	150	1.18	0.418	0.300	0.0472	1.617	25.01	10.24	0.0	13.0	15.7	56.5	1.8	14.8
★ ST/1090A, 4.00, 2	2.00	0.0185	0.00858					0.07294	0.0	0.0	0.0	22.8	46.2	77.2 31.0
⊙ ST/1090A, 5.00, 3	2.00	0.0203	0.0124	0.00462	0.00173	0.6109	11.75	0.04429	0.0	0.0	0.0	16.1	70.9	83.9 13.0
⊕ ST/1090A, 6.00, 1	2.36	0.135	0.112	0.0764	0.0522	0.8267	2.590	0.1230	0.0	0.0	0.0	71.0		29.0
○ ST/1090A, 6.00, 4	2.00	0.0174	0.00970	0.00301	0.000935	0.5572	18.61	0.04630	0.0	0.0	0.0	17.1	59.9	82.9 23.0
△ ST/1090A, 7.00, 1	0.180							0.03762	0.0	0.0	0.0	36.0		64.0
⊗ ST/1090A, 7.00, 5	2.00	0.0266	0.0144	0.00419	0.00122	0.5401	21.77	0.08606	0.0	0.0	0.0	24.7	57.3	75.3 18.0
⊕ ST/1090A, 8.00, 6		0.0320	0.0173	0.00504	0.00147	0.5401	21.77					27.7	57.3	72.3 15.0

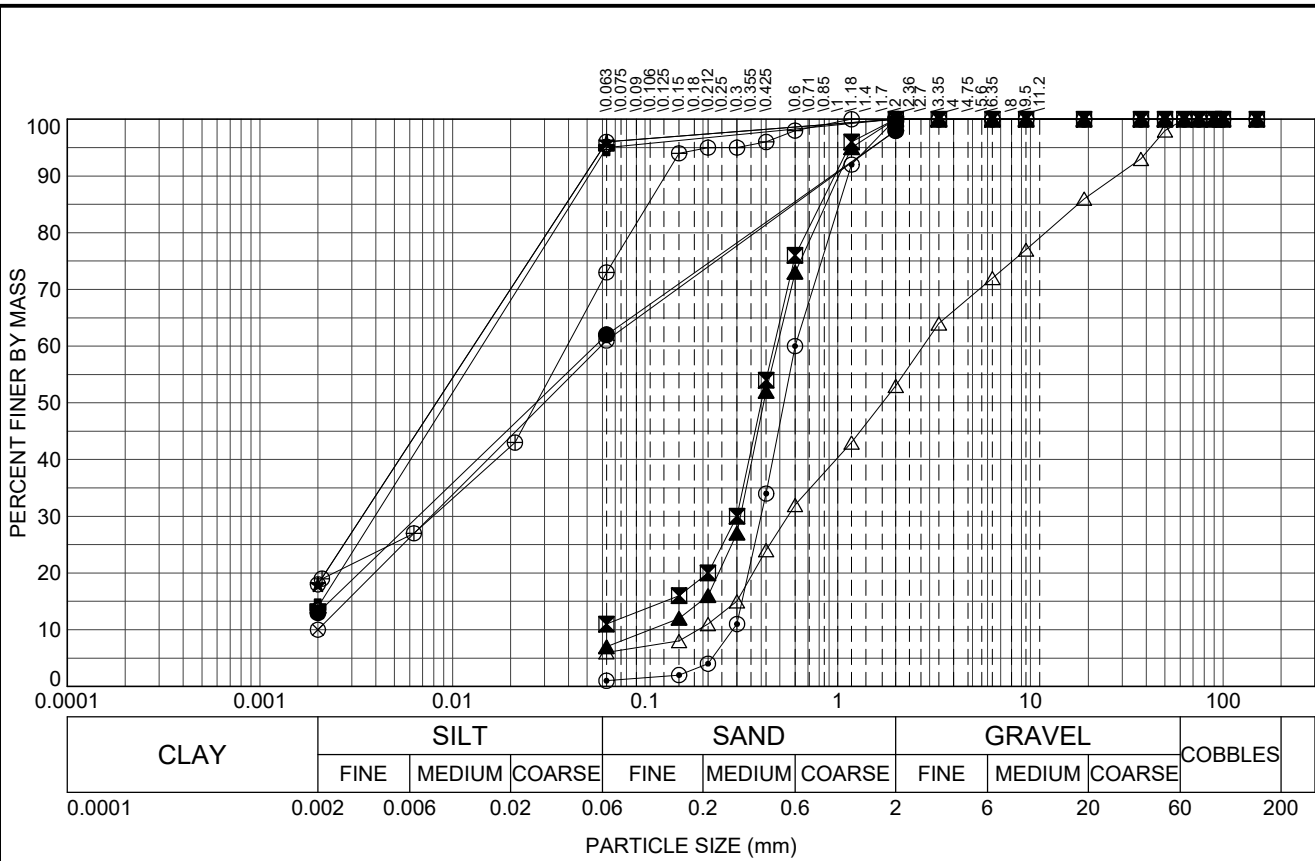
	TITLE Datgel Engineer 1 Somewhere, World Construction Project Particle Size Distribution Summary		DRAWN PMW	DATE 9/9/2020
			CHECKED	DATE 9/9/2020
			SCALE Not To Scale	A4
			PROJECT No 5.03.1	FIGURE No 233



DGDTP-5.03.1 LIB.GLB Graph A.LCS PSD-10 PER PAGE SUMMARY DGDTP-5.03.2.GPJ <<DrawingFile>> 9/9/2020 16:47:10.01.00.11 Datgel.Lab and In Situ Tool - DGD Lib: DGDTP-5.03.2.2020-09-08 Proj: DGDTP-DLST.5.03.1.2020-09-05

Hole ID, Depth, Spec Ref	Classification											LL	PL	PI
● ST/1090A, 9.00, 7	Sandy SILT (MH) of high plasticity, fine and coarse sand											69	39	30
⊠ ST/1090A, 10.00, 1	Sandy SILT											33	23	11
▲ ST/1090A, 10.00, 8	Slightly sandy SILT (MH) of high plasticity, fine and coarse sand											58	38	20
★ ST/1090A, 11.00, 9	Sandy SILT (MH) of high plasticity, fine and coarse sand											60	36	24
⊙ ST/1090A, 12.00, 1	Slightly sandy CLAY (CL) of low plasticity, fine sand											34	21	13
⊕ ST/1090A, 12.00, 10	Slightly sandy SILT (MH) of high plasticity, fine and coarse sand											60	39	21
○ ST/1090A, 13.00, 1	Sandy SILT (ML) non-plastic, fine sand													
△ ST/1090A, 13.00, 11	Sandy SILT (MH) of high plasticity, fine and coarse sand											53	34	19
⊗ ST/1090A, 14.00, 12	Slightly gravelly slightly sandy SILT (MH) of high plasticity, fine and coarse sand, fine gravel											58	37	21
⊕ ST/1090A, 15.00, 1	Sandy SILT													
Hole ID, Depth, Spec Ref	D100	D60	D50	D30	D10	Cc	Cu	DMF	%Boulders	%Cobbles	%Gravel	%Sand	%Silt	%Clay
● ST/1090A, 9.00, 7	2.00	0.0512	0.0257	0.00646	0.00163	0.5016	31.50	0.1463	0.0	0.0	0.0	35.1	51.9	64.9 13.0
⊠ ST/1090A, 10.00, 1	1.40	0.262	0.226	0.151	0.0630	1.383	4.166	0.2454	0.0	0.0	0.0	86.0		14.0
▲ ST/1090A, 10.00, 8	2.00	0.0196	0.0115	0.00399	0.00138	0.5882	14.21	0.04761	0.0	0.0	0.0	17.1	65.9	82.9 17.0
★ ST/1090A, 11.00, 9		0.0981	0.0426	0.00887	0.00185	0.4337	53.07					43.0	46.0	57.0 11.0
⊙ ST/1090A, 12.00, 1	9.50	5.20	4.93	4.13	2.86	1.147	1.817	4.728	0.0	0.0	99.8	175.0	0.0	0.0
⊕ ST/1090A, 12.00, 10	2.00	0.0316	0.0169	0.00481	0.00137	0.5340	23.02	0.1019	0.0	0.0	0.0	27.5	56.5	72.5 16.0
○ ST/1090A, 13.00, 1	12.5	5.54	5.33	4.94	2.98	1.478	1.860	5.176	0.0	0.0	93.9	58.3	0.0	0.0
△ ST/1090A, 13.00, 11		0.0550	0.0280	0.00723	0.00187	0.5084	29.44					36.2	52.8	63.8 11.0
⊗ ST/1090A, 14.00, 12		0.106	0.0426	0.00887	0.00185	0.4001	57.53					43.3	45.7	56.7 11.0
⊕ ST/1090A, 15.00, 1	6.35	5.31	4.93	3.44	2.07	1.073	2.567	4.192	0.0	0.0	84.8	136.1	0.0	0.0

	TITLE Datgel Engineer 1 Somewhere, World Construction Project Particle Size Distribution Summary		DRAWN PMW	DATE 9/9/2020
			CHECKED	DATE 9/9/2020
	SCALE Not To Scale			A4
	PROJECT No 5.03.1		FIGURE No 233	

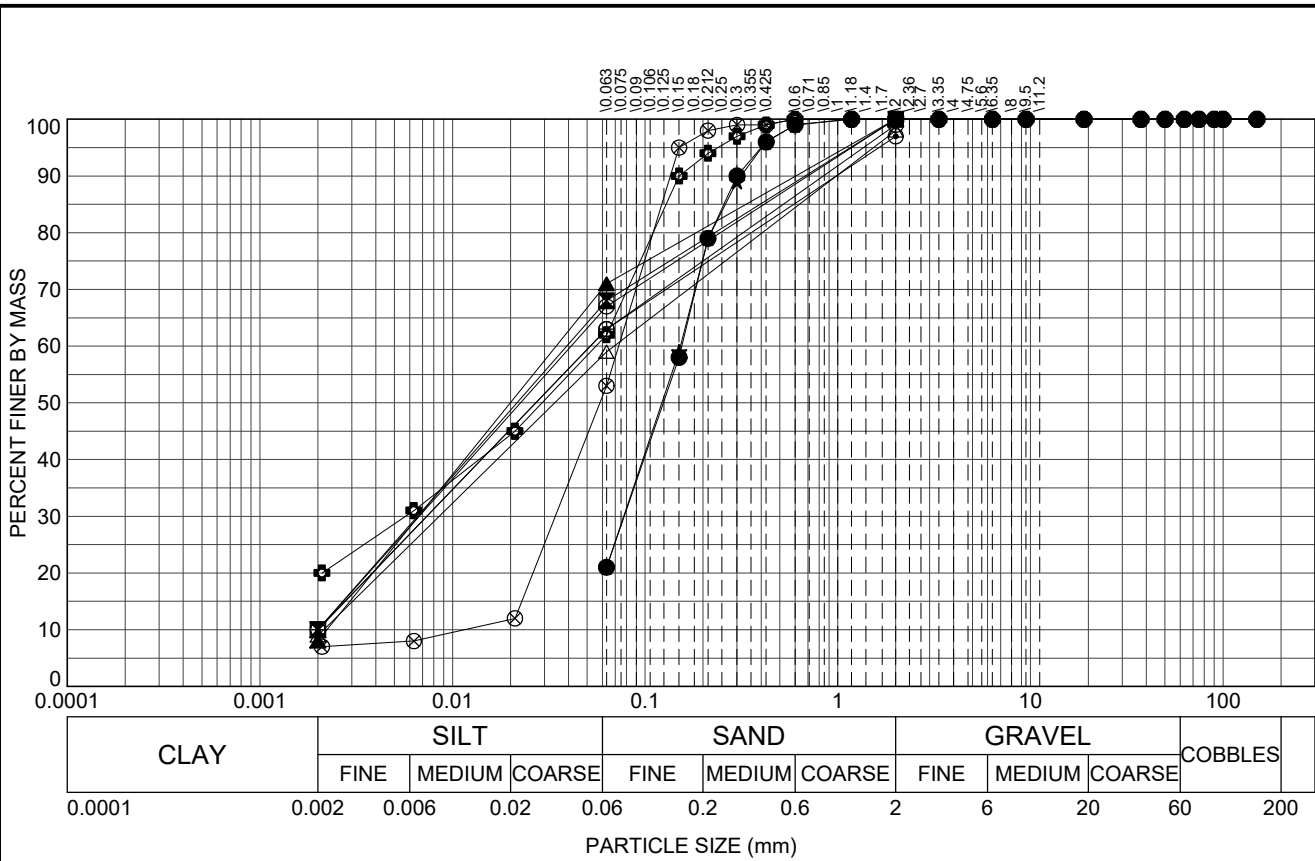


DGDTP-5.03.1.LIB.GLB Graph A.LCS.PSD.10.FREE.PAGE.SUMMARY DGDTP-5.03.2.GPJ <<DrawingFile>> 9/9/2020 16:47:10.01.00.11 Datgel.Lab and In Situ Tool - DGD Lib: DGDTP-5.03.2.2020-09-08 Proj: DGDTP-DLST.5.03.1.2020-09-05

Hole ID, Depth, Spec Ref	Classification	LL	PL	PI
● ST/1090A, 15.00, 13	Sandy SILT (MH) of high plasticity, fine and coarse sand	55	34	21
⊠ ST/1090A, 16.00, 14	Silty poorly graded SAND (SM) medium to coarse sand, silt of high plasticity	60	39	21
▲ ST/1090A, 17.00, 1	Silty poorly graded SAND (SM) medium to coarse sand			
★ ST/1090A, 17.00, 15	SILT (MH) of high plasticity	69	40	29
⊙ ST/1090A, 18.00, 1	Poorly graded SAND (SP) medium to coarse sand			
⊕ ST/1090A, 18.00, 16	SILT (MH) of high plasticity	69	39	30
○ ST/1090A, 19.00, 17	SILT (MH) of high plasticity	65	38	27
△ ST/1090A, 20.00, 1	Silty very gravelly poorly graded SAND (SM) medium to coarse sand, fine to medium gravel			
⊗ ST/1090A, 20.00, 18	Sandy SILT (MH) of high plasticity, fine and coarse sand	52	33	19
⊕ ST/1090A, 20.00, 1	Slightly sandy SILT (ML) non-plastic, fine sand			

Hole ID, Depth, Spec Ref	D100	D60	D50	D30	D10	Cc	Cu	DMF	%Boulders	%Cobbles	%Gravel	%Sand	%Silt	%Clay
● ST/1090A, 15.00, 13		0.0547	0.0271	0.00662	0.00162	0.4946	33.80					36.2	50.8	63.8
⊠ ST/1090A, 16.00, 14	2.00	0.467	0.401	0.300	0.0530	3.639	8.815	0.4418	0.0	0.0	0.0	88.0	1.0	12.0
▲ ST/1090A, 17.00, 1	2.00	0.485	0.413	0.313	0.106	1.904	4.571	0.4716	0.0	0.0	0.0	92.0	1.0	8.0
★ ST/1090A, 17.00, 15	2.00	0.0128	0.00824	0.00340	0.00140	0.6426	9.130	0.01474	0.0	0.0	0.0	3.8	78.2	96.2
⊙ ST/1090A, 18.00, 1	2.00	0.600	0.525	0.400	0.285	0.9342	2.102	0.6003	0.0	0.0	0.0	98.8	0.2	1.2
⊕ ST/1090A, 18.00, 16	2.00	0.0142	0.00927	0.00395	0.00169	0.6532	8.412	0.01596	0.0	0.0	0.0	4.7	81.3	95.3
○ ST/1090A, 19.00, 17	2.00	0.0128	0.00824	0.00340	0.00140	0.6426	9.130	0.01474	0.0	0.0	0.0	3.8	78.2	96.2
△ ST/1090A, 20.00, 1	63.0	2.78	1.71	0.550	0.189	0.5775	14.70	5.775	0.0	0.0	43.5	50.1	0.4	6.4
⊗ ST/1090A, 20.00, 18		0.0589	0.0299	0.00774	0.00200	0.5084	29.44					37.1	52.9	62.9
⊕ ST/1090A, 20.45, 1	16.0	5.21	4.94	4.13	2.74	1.193	1.900	4.733	0.0	0.0	96.8	155.6	0.0	0.0

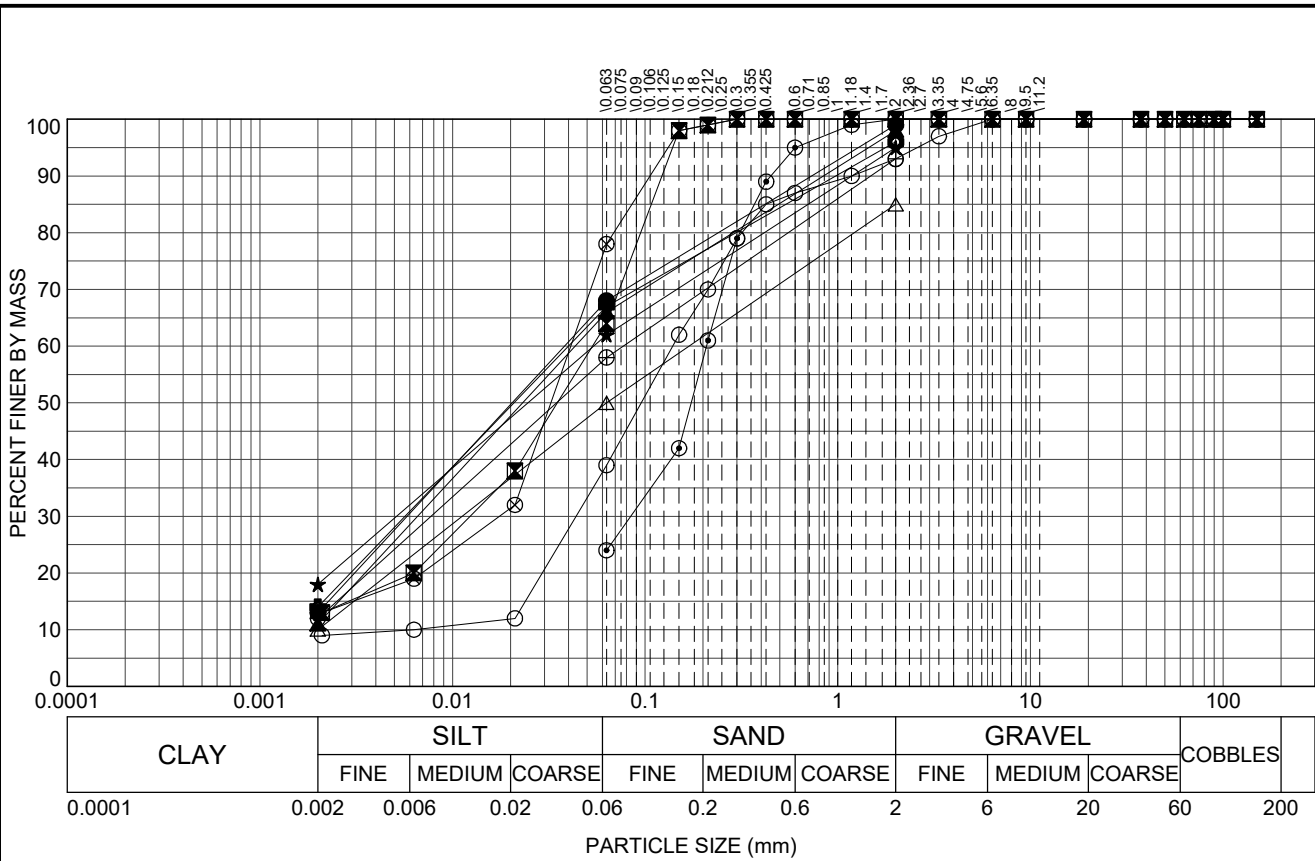
	TITLE Datgel Engineer 1 Somewhere, World Construction Project Particle Size Distribution Summary		DRAWN PMW	DATE 9/9/2020
			CHECKED	DATE 9/9/2020
	SCALE Not To Scale			A4
	PROJECT No 5.03.1		FIGURE No 233	



DGDTP-5.03.1.LIB.GLB Graph A.LCS.PSD.10.FEER.PAGE.SUMMARY.DGDTP-5.03.2.GPJ <<DrawingFile>> 9/9/2020 16:47:10.01.00.11.Datgel.Lab.and.In.Situ.Tool - DGD I.Lib.DGDTP-5.03.2.2020-09-08.Pjt.DGDTP-DLST.5.03.1.2020-09-05

Hole ID, Depth, Spec Ref	Classification											LL	PL	PI
● ST/1090A, 21.00, 1	Very silty SAND (SM) fine sand													
■ ST/1090A, 21.00, 19	Slightly sandy SILT (MH) of high plasticity, fine and coarse sand											50	35	15
▲ ST/1090A, 22.00, 20	Slightly sandy SILT (MH) of high plasticity, fine and coarse sand											50	33	17
★ ST/1090A, 23.00, 1	Very silty SAND (SM) fine sand													
⊙ ST/1090A, 23.00, 21	Slightly sandy SILT (MH) of high plasticity, fine and coarse sand											50	31	19
⊕ ST/1090A, 24.00, 1	Sandy SILT (ML) non-plastic, fine sand													
○ ST/1090A, 24.00, 22	Slightly sandy SILT (MI) of intermediate plasticity, fine and coarse sand											48	35	13
△ ST/1090A, 25.00, 23	Sandy SILT (MI) of intermediate plasticity, fine and coarse sand											45	33	12
⊗ ST/1090A, 26.00, 1	Sandy SILT (ML) non-plastic, fine sand													
⊕ ST/1090A, 26.00, 24	Sandy SILT (MI) of intermediate plasticity, fine and coarse sand											46	35	11
Hole ID, Depth, Spec Ref	D100	D60	D50	D30	D10	Cc	Cu	DMF	%Boulders	%Cobbles	%Gravel	%Sand	%Silt	%Clay
● ST/1090A, 21.00, 1	1.18	0.155	0.124	0.0778	0.0487	0.8021	3.185	0.1340	0.0	0.0	0.0	71.6	7.4	28.4
■ ST/1090A, 21.00, 19	2.00	0.0391	0.0216	0.00657	0.00200	0.5517	19.57	0.1191	0.0	0.0	0.0	30.4	59.6	69.6 10.0
▲ ST/1090A, 22.00, 20	2.00	0.0345	0.0199	0.00667	0.00223	0.5783	15.46	0.1033	0.0	0.0	0.0	27.5	64.5	72.5 8.0
★ ST/1090A, 23.00, 1	1.18	0.153	0.122	0.0774	0.0490	0.8003	3.114	0.1350	0.0	0.0	0.0	71.4	7.6	28.6
⊙ ST/1090A, 23.00, 21		0.0518	0.0270	0.00735	0.00200	0.5216	25.91					35.3	54.7	64.7 10.0
⊕ ST/1090A, 24.00, 1	12.5	5.49	4.99	3.94	2.85	0.9893	1.926	4.812	0.0	0.0	101.7	213.9	0.0	0.0
○ ST/1090A, 24.00, 22	2.00	0.0412	0.0225	0.00671	0.00200	0.5459	20.62	0.1247	0.0	0.0	0.0	31.3	58.7	68.7 10.0
△ ST/1090A, 25.00, 23		0.0688	0.0339	0.00852	0.00214	0.4918	32.13					39.0	52.0	61.0 9.0
⊗ ST/1090A, 26.00, 1	12.5	5.72	5.53	5.11	4.36	1.046	1.312	5.462	0.0	0.0	95.0	19.4	0.0	0.0
⊕ ST/1090A, 26.00, 24		0.0518	0.0270	0.00735	0.00200	0.5216	25.91					35.2	54.8	64.8 10.0

	TITLE		DRAWN	DATE
	Datgel Engineer 1 Somewhere, World Construction Project		PMW	9/9/2020
			CHECKED	9/9/2020
	Particle Size Distribution Summary		SCALE	A4
		PROJECT No	FIGURE No	
		5.03.1	233	

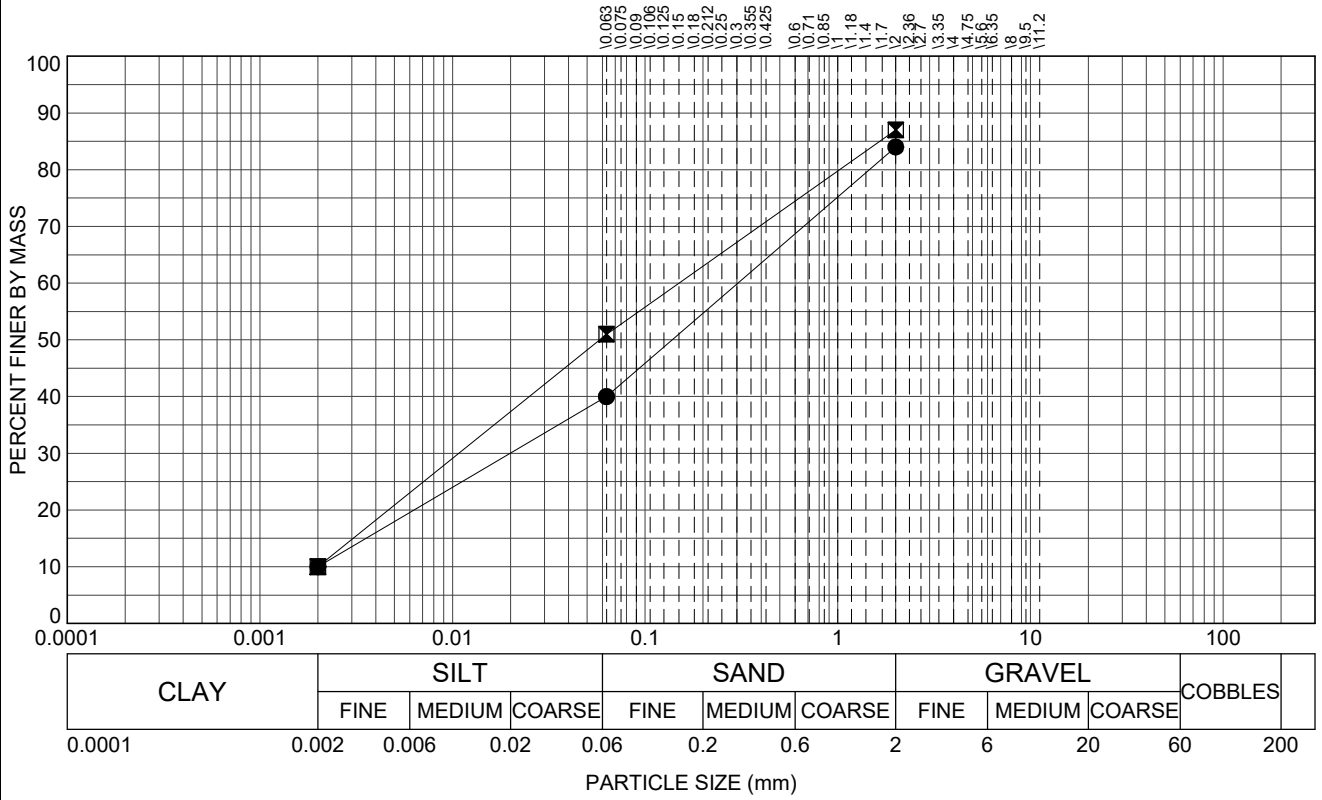


Hole ID, Depth, Spec Ref	Classification											LL	PL	PI	
● ST/1090A, 27.00, 25	Slightly sandy SILT (MI) of intermediate plasticity, fine and coarse sand											48	35	13	
■ ST/1090A, 28.00, 1	Sandy SILT (ML) non-plastic, fine sand														
▲ ST/1090A, 28.00, 26	Slightly sandy SILT (MI) of intermediate plasticity, fine and coarse sand											47	34	13	
★ ST/1090A, 29.00, 1	Slightly sandy SILT (MI) of intermediate plasticity, fine and coarse sand											47	34	13	
○ ST/1090A, 30.00, 1	Very silty SAND (SM) fine to medium sand														
⊕ ST/1090A, 30.00, 27	Slightly sandy SILT (MH) of high plasticity, fine and coarse sand											51	33	18	
○ ST/1090A, 31.00, 1	Sandy SILT (ML) non-plastic, fine to medium sand														
△ ST/1090A, 31.00, 2	Slightly gravelly sandy SILT (MH) of high plasticity, fine and coarse sand, fine gravel											51	36	15	
⊗ ST/1090A, 32.00, 1	Slightly sandy SILT (ML) non-plastic, fine sand														
⊕ ST/1090A, 32.00, 3	Sandy SILT (MH) of high plasticity, fine and coarse sand											50	34	16	
Hole ID, Depth, Spec Ref	D100	D60	D50	D30	D10	Cc	Cu	DMF	%Boulders	%Cobbles	%Gravel	%Sand	%Silt	%Clay	
● ST/1090A, 27.00, 25		0.0381	0.0204	0.00581	0.00166	0.5340	23.02					30.4	56.6	69.6	13.0
■ ST/1090A, 28.00, 1	9.50	5.46	5.12	4.40	3.10	1.142	1.759	4.970	0.0	0.0	100.8	136.1	0.0	0.0	
▲ ST/1090A, 28.00, 26		0.0432	0.0231	0.00659	0.00188	0.5340	23.02					32.4	56.6	67.6	11.0
★ ST/1090A, 29.00, 1		0.0539	0.0246	0.00512	0.00107	0.4565	50.42					36.3	45.7	63.7	18.0
○ ST/1090A, 30.00, 1	2.00	0.208	0.174	0.0841	0.0321	1.060	6.488	0.1830	0.0	0.0	0.0	72.4	3.6	27.6	
⊕ ST/1090A, 30.00, 27		0.0399	0.0208	0.00567	0.00154	0.5216	25.91					31.5	54.5	68.5	14.0
○ ST/1090A, 31.00, 1	25.0	6.28	5.95	5.30	4.00	1.118	1.570	7.323	0.0	0.0	93.0	19.4	0.0	0.0	
△ ST/1090A, 31.00, 2		0.169	0.0630	0.0112	0.00200	0.3723	84.60					48.2	41.8	51.8	10.0
⊗ ST/1090A, 32.00, 1	9.50	5.25	5.07	4.63	3.07	1.329	1.713	4.900	0.0	0.0	98.9	116.7	0.0	0.0	
⊕ ST/1090A, 32.00, 3		0.0768	0.0346	0.00771	0.00172	0.4504	44.59					40.2	47.8	59.8	12.0

DGDTP-5.03.1 LIB.GLB Graph A.L.CS PSD 10 FEER PAGE SUMMARY DGDTP-5.03.2.GPJ <<DrawingFile>> 9/9/2020 16:48:10.01.00.11 Datgel.Lab and In Situ Tool - DGD Lib: DGDTP-5.03.2 2020-09-08 Proj: DGDTP-DLST 5.03.1 2020-09-05

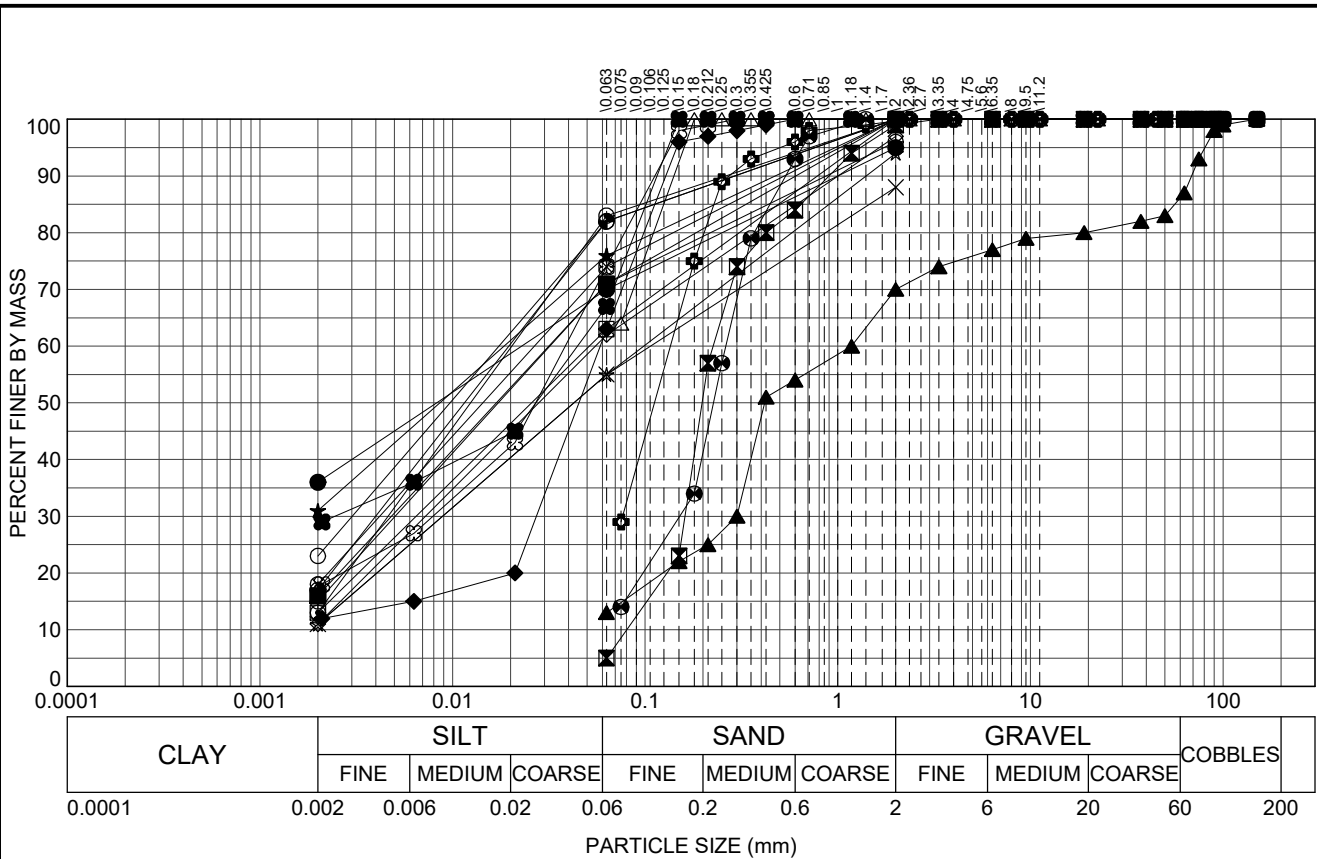
	TITLE		DRAWN	DATE
	Datgel Engineer 1 Somewhere, World Construction Project Particle Size Distribution Summary		PMW	9/9/2020
			CHECKED	DATE
			SCALE	FIGURE No
		Not To Scale	A4	233
		PROJECT No	5.03.1	

DGD1-P.5.03.2 LIB.GLB Graph A.LCS PSD.10 FEER PAGE SUMMARY DGD1-P.5.03.2.GPJ <<DrawingFile>> 9/9/2020 16:48:10.01.00.11 Datgel.Lab and In Situ Tool - DGD1 Lib: DGD1-P.5.03.2.2020-09-08 Proj: DGD1-DLST.5.03.1.2020-09-05



Hole ID, Depth, Spec Ref	Classification											LL	PL	PI
● ST/1090A, 34.00, 28	Slightly gravelly sandy SILT (MI) of intermediate plasticity, fine and coarse sand, fine gravel											47	33	14
■ ST/1090A, 35.00, 4	Slightly gravelly sandy SILT (MH) of high plasticity, fine and coarse sand, fine gravel											51	36	15
Hole ID, Depth, Spec Ref	D100	D60	D50	D30	D10	Cc	Cu	DMF	%Boulders	%Cobbles	%Gravel	%Sand	%Silt	%Clay
● ST/1090A, 34.00, 28		0.303	0.138	0.0199	0.00200	0.6559	151.7					57.8	32.2	42.2 10.0
■ ST/1090A, 35.00, 4		0.150	0.0579	0.0108	0.00200	0.3873	74.77					47.2	42.8	52.8 10.0

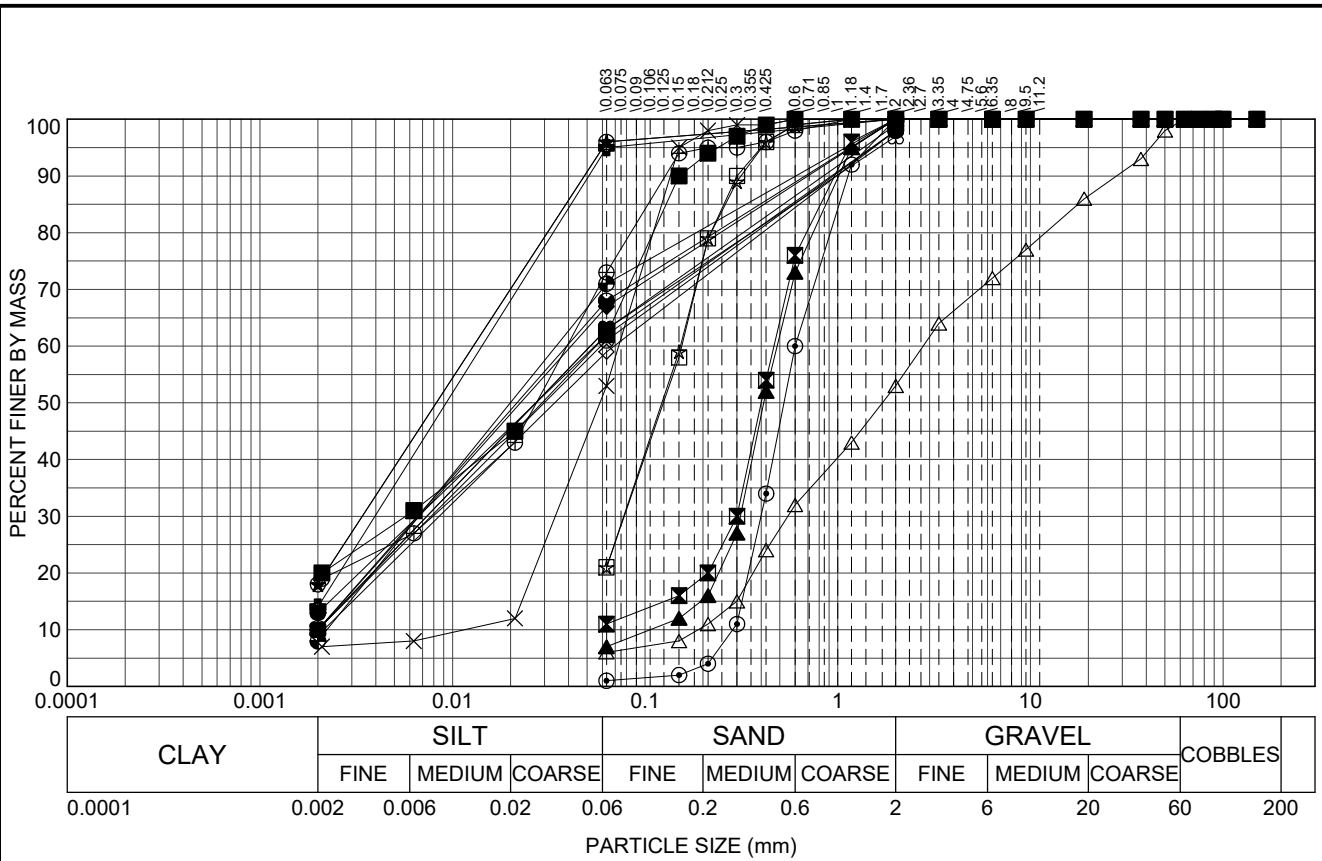
	TITLE Datgel Engineer 1 Somewhere, World Construction Project Particle Size Distribution Summary		DRAWN PMW	DATE 9/9/2020
			CHECKED	DATE 9/9/2020
			SCALE Not To Scale	A4
			PROJECT No 5.03.1	FIGURE No 233



Hole ID, Depth, Spec Ref	D100	D60	D50	D30	D10	Cc	Cu	DMF	%Boulders	%Cobbles	%Gravel	%Sand	%Silt	%Clay	
● ST/1090A, 3.00, 1		0.0228	0.00828									28.7	35.3	71.3	36.0
⊠ ST/1090A, 3.50, 2	3.35	0.225	0.197	0.161	0.0802	1.436	2.812	0.2860	0.0	0.0	0.7	90.7	3.6	8.6	
▲ ST/1090A, 3.70,	150	1.18	0.418	0.300	0.0472	1.617	25.01	10.24	0.0	13.0	15.7	56.5	1.8	14.8	
★ ST/1090A, 4.00, 2	2.00	0.0185	0.00858					0.07294	0.0	0.0	0.0	22.8	46.2	77.2	31.0
⊙ ST/1090A, 5.00, 3	2.00	0.0203	0.0124	0.00462	0.00173	0.6109	11.75	0.04429	0.0	0.0	0.0	16.1	70.9	83.9	13.0
⊕ ST/1090A, 6.00, 1	2.36	0.135	0.112	0.0764	0.0522	0.8267	2.590	0.1230	0.0	0.0	0.0	71.0		29.0	
○ ST/1090A, 6.00, 4	2.00	0.0174	0.00970	0.00301	0.000935	0.5572	18.61	0.04630	0.0	0.0	0.0	17.1	59.9	82.9	23.0
△ ST/1090A, 7.00, 1	0.180							0.03762	0.0	0.0	0.0	36.0		64.0	
⊗ ST/1090A, 7.00, 5	2.00	0.0266	0.0144	0.00419	0.00122	0.5401	21.77	0.08606	0.0	0.0	0.0	24.7	57.3	75.3	18.0
⊕ ST/1090A, 8.00, 6		0.0320	0.0173	0.00504	0.00147	0.5401	21.77					27.7	57.3	72.3	15.0
□ ST/1090A, 9.00, 7	2.00	0.0512	0.0257	0.00646	0.00163	0.5016	31.50	0.1463	0.0	0.0	0.0	35.1	51.9	64.9	13.0
⊖ ST/1090A, 10.00, 1	1.40	0.262	0.226	0.151	0.0630	1.383	4.166	0.2454	0.0	0.0	0.0	86.0		14.0	
⊙ ST/1090A, 10.00, 8	2.00	0.0196	0.0115	0.00399	0.00138	0.5882	14.21	0.04761	0.0	0.0	0.0	17.1	65.9	82.9	17.0
★ ST/1090A, 11.00, 9		0.0981	0.0426	0.00887	0.00185	0.4337	53.07					43.0	46.0	57.0	11.0
⊚ ST/1090A, 12.00, 1	9.50	5.20	4.93	4.13	2.86	1.147	1.817	4.728	0.0	0.0	99.8	175.0	0.0	0.0	
■ ST/1090A, 12.00, 10	2.00	0.0316	0.0169	0.00481	0.00137	0.5340	23.02	0.1019	0.0	0.0	0.0	27.5	56.5	72.5	16.0
◆ ST/1090A, 13.00, 1	12.5	5.54	5.33	4.94	2.98	1.478	1.860	5.176	0.0	0.0	93.9	58.3	0.0	0.0	
◇ ST/1090A, 13.00, 11		0.0550	0.0280	0.00723	0.00187	0.5084	29.44					36.2	52.8	63.8	11.0
× ST/1090A, 14.00, 12		0.106	0.0426	0.00887	0.00185	0.4001	57.53					43.3	45.7	56.7	11.0
■ ST/1090A, 15.00, 1	6.35	5.31	4.93	3.44	2.07	1.073	2.567	4.192	0.0	0.0	84.8	136.1	0.0	0.0	

DGDTP-5.03.1.GLB Graph A.LCS PSD 20 FEER PAGE SUMMARY DGDTP-5.03.2.GPJ <<DrawingFile>> 9/9/2020 16:48:10.01.00.11 Datgel.Lab and In Situ Tool - DGD Lib: DGDTP-5.03.2.2020-09-08 Proj: DGDTP-DIST.5.03.1.2020-09-05

	TITLE Datgel Engineer 1 Somewhere, World Construction Project Particle Size Distribution Summary		DRAWN PMW	DATE 9/9/2020
			CHECKED	DATE 9/9/2020
	SCALE Not To Scale			A4
	PROJECT No 5.03.1		FIGURE No 234	

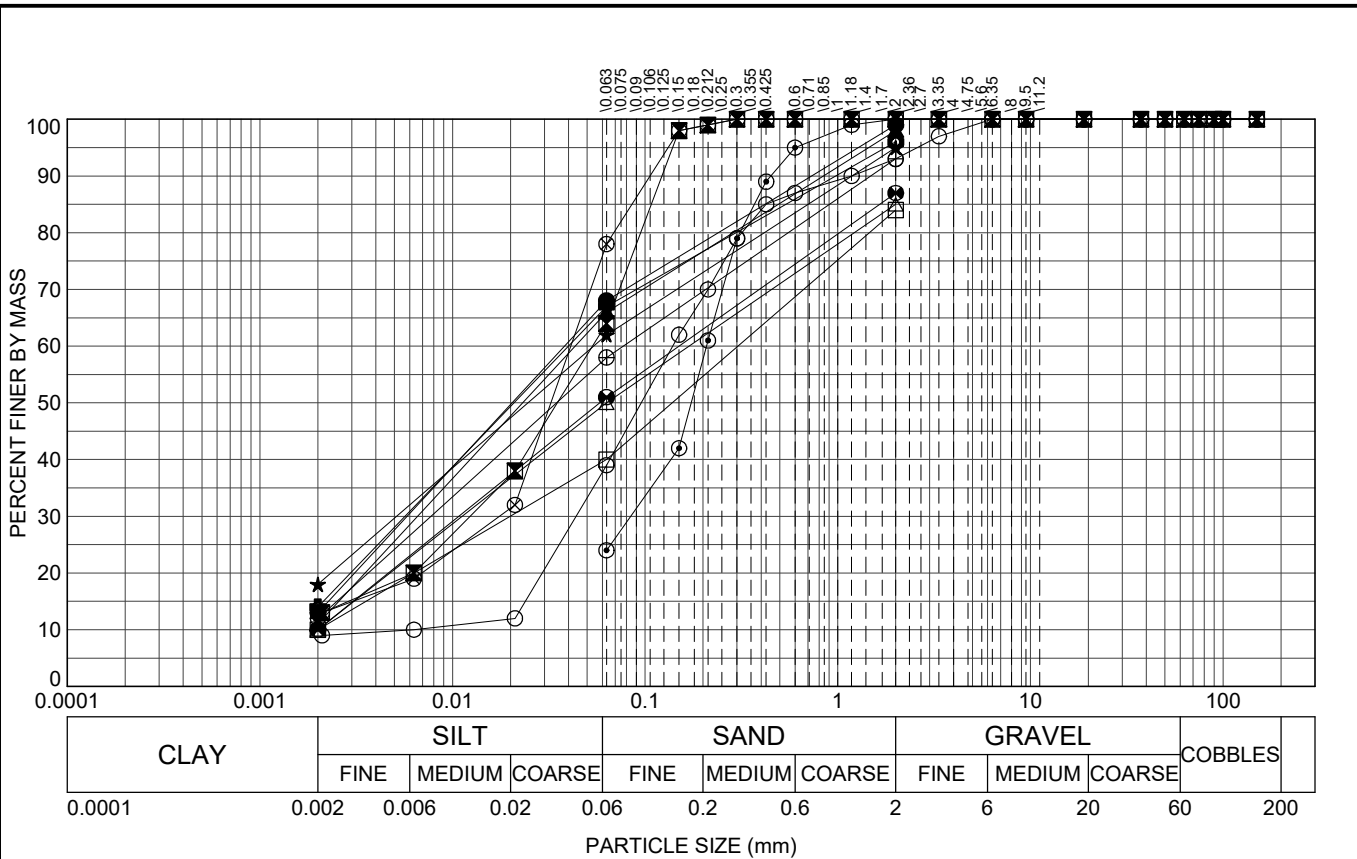


Hole ID, Depth, Spec Ref	D100	D60	D50	D30	D10	Cc	Cu	DMF	%Boulders	%Cobbles	%Gravel	%Sand	%Silt	%Clay	
● ST/1090A, 15.00, 13		0.0547	0.0271	0.00662	0.00162	0.4946	33.80					36.2	50.8	63.8	13.0
■ ST/1090A, 16.00, 14	2.00	0.467	0.401	0.300	0.0530	3.639	8.815	0.4418	0.0	0.0	0.0	88.0	1.0	12.0	
▲ ST/1090A, 17.00, 1	2.00	0.485	0.413	0.313	0.106	1.904	4.571	0.4716	0.0	0.0	0.0	92.0	1.0	8.0	
★ ST/1090A, 17.00, 15	2.00	0.0128	0.00824	0.00340	0.00140	0.6426	9.130	0.01474	0.0	0.0	0.0	3.8	78.2	96.2	18.0
○ ST/1090A, 18.00, 1	2.00	0.600	0.525	0.400	0.285	0.9342	2.102	0.6003	0.0	0.0	0.0	98.8	0.2	1.2	
⊕ ST/1090A, 18.00, 16	2.00	0.0142	0.00927	0.00395	0.00169	0.6532	8.412	0.01596	0.0	0.0	0.0	4.7	81.3	95.3	14.0
○ ST/1090A, 19.00, 17	2.00	0.0128	0.00824	0.00340	0.00140	0.6426	9.130	0.01474	0.0	0.0	0.0	3.8	78.2	96.2	18.0
△ ST/1090A, 20.00, 1	63.0	2.78	1.71	0.550	0.189	0.5775	14.70	5.775	0.0	0.0	43.5	50.1	0.4	6.4	
⊗ ST/1090A, 20.00, 18		0.0589	0.0299	0.00774	0.00200	0.5084	29.44					37.1	52.9	62.9	10.0
⊕ ST/1090A, 20.00, 1	16.0	5.21	4.94	4.13	2.74	1.193	1.900	4.733	0.0	0.0	96.8	155.6	0.0	0.0	
□ ST/1090A, 21.00, 1	1.18	0.155	0.124	0.0778	0.0487	0.8021	3.185	0.1340	0.0	0.0	0.0	71.6	7.4	28.4	
⊕ ST/1090A, 21.00, 19	2.00	0.0391	0.0216	0.00657	0.00200	0.5517	19.57	0.1191	0.0	0.0	0.0	30.4	59.6	69.6	10.0
⊕ ST/1090A, 22.00, 20	2.00	0.0345	0.0199	0.00667	0.00223	0.5783	15.46	0.1033	0.0	0.0	0.0	27.5	64.5	72.5	8.0
★ ST/1090A, 23.00, 1	1.18	0.153	0.122	0.0774	0.0490	0.8003	3.114	0.1350	0.0	0.0	0.0	71.4	7.6	28.6	
⊕ ST/1090A, 23.00, 21		0.0518	0.0270	0.00735	0.00200	0.5216	25.91					35.3	54.7	64.7	10.0
■ ST/1090A, 24.00, 1	12.5	5.49	4.99	3.94	2.85	0.9893	1.926	4.812	0.0	0.0	101.7	213.9	0.0	0.0	
◆ ST/1090A, 24.00, 22	2.00	0.0412	0.0225	0.00671	0.00200	0.5459	20.62	0.1247	0.0	0.0	0.0	31.3	58.7	68.7	10.0
◇ ST/1090A, 25.00, 23		0.0688	0.0339	0.00852	0.00214	0.4918	32.13					39.0	52.0	61.0	9.0
× ST/1090A, 26.00, 1	12.5	5.72	5.53	5.11	4.36	1.046	1.312	5.462	0.0	0.0	95.0	19.4	0.0	0.0	
■ ST/1090A, 26.00, 24		0.0518	0.0270	0.00735	0.00200	0.5216	25.91					35.2	54.8	64.8	10.0

DGDTP-5.03.1 LIB.GLB Graph A.LCS PSD 20 FEER PAGE SUMMARY DGDTP-5.03.2.GPJ <DrawingFile> 9/9/2020 16:48:10.01.00.11 Datgel.Lab and In Situ Tool - DGD Lib: DGDTP-5.03.2.2020-09-08 Proj: DGDTP-DLST.5.03.1.2020-09-05

	TITLE Datgel Engineer 1 Somewhere, World Construction Project Particle Size Distribution Summary		DRAWN PMW	DATE 9/9/2020
			CHECKED	DATE 9/9/2020
	SCALE Not To Scale			A4
	PROJECT No 5.03.1		FIGURE No 234	

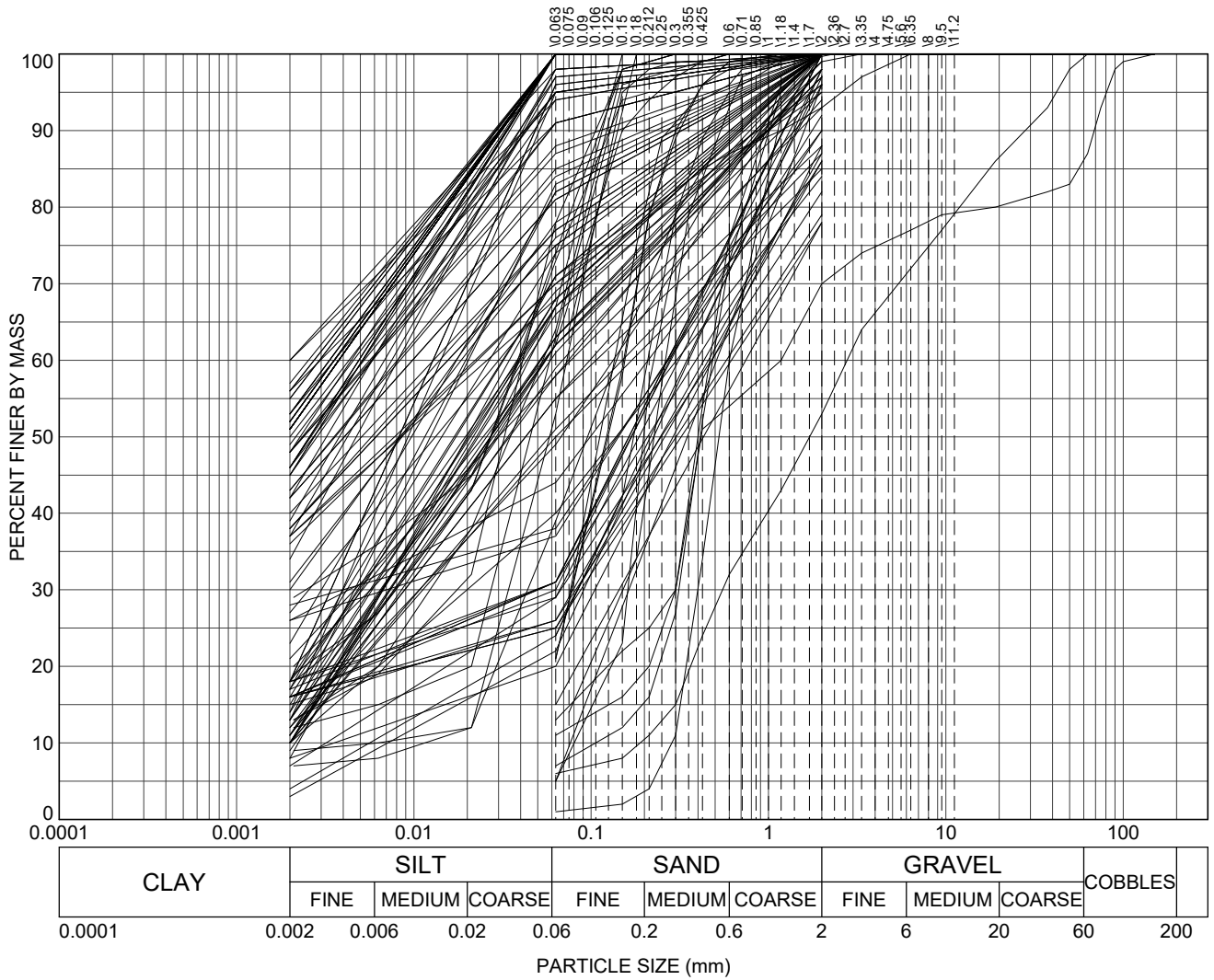
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Hole ID, Depth, Spec Ref	D100	D60	D50	D30	D10	Cc	Cu	DMF	%Boulders	%Cobbles	%Gravel	%Sand	%Silt	%Clay	
● ST/1090A, 27.00, 25		0.0381	0.0204	0.00581	0.00166	0.5340	23.02					30.4	56.6	69.6	13.0
☒ ST/1090A, 28.00, 1	9.50	5.46	5.12	4.40	3.10	1.142	1.759	4.970	0.0	0.0	100.8	136.1	0.0	0.0	
▲ ST/1090A, 28.00, 26		0.0432	0.0231	0.00659	0.00188	0.5340	23.02					32.4	56.6	67.6	11.0
★ ST/1090A, 29.00, 1		0.0539	0.0246	0.00512	0.00107	0.4565	50.42					36.3	45.7	63.7	18.0
⊙ ST/1090A, 30.00, 1	2.00	0.208	0.174	0.0841	0.0321	1.060	6.488	0.1830	0.0	0.0	0.0	72.4	3.6	27.6	
⊕ ST/1090A, 30.00, 27		0.0399	0.0208	0.00567	0.00154	0.5216	25.91					31.5	54.5	68.5	14.0
○ ST/1090A, 31.00, 1	25.0	6.28	5.95	5.30	4.00	1.118	1.570	7.323	0.0	0.0	93.0	19.4	0.0	0.0	
△ ST/1090A, 31.00, 2		0.169	0.0630	0.0112	0.00200	0.3723	84.60					48.2	41.8	51.8	10.0
⊗ ST/1090A, 32.00, 1	9.50	5.25	5.07	4.63	3.07	1.329	1.713	4.900	0.0	0.0	98.9	116.7	0.0	0.0	
⊕ ST/1090A, 32.00, 3		0.0768	0.0346	0.00771	0.00172	0.4504	44.59					40.2	47.8	59.8	12.0
□ ST/1090A, 34.00, 28		0.303	0.138	0.0199	0.00200	0.6559	151.7					57.8	32.2	42.2	10.0
⊙ ST/1090A, 35.00, 4		0.150	0.0579	0.0108	0.00200	0.3873	74.77					47.2	42.8	52.8	10.0

	TITLE Datgel Engineer 1 Somewhere, World Construction Project Particle Size Distribution Summary		DRAWN PMW	DATE 9/9/2020
			CHECKED	DATE 9/9/2020
			SCALE Not To Scale	A4
			PROJECT No 5.03.1	FIGURE No 234

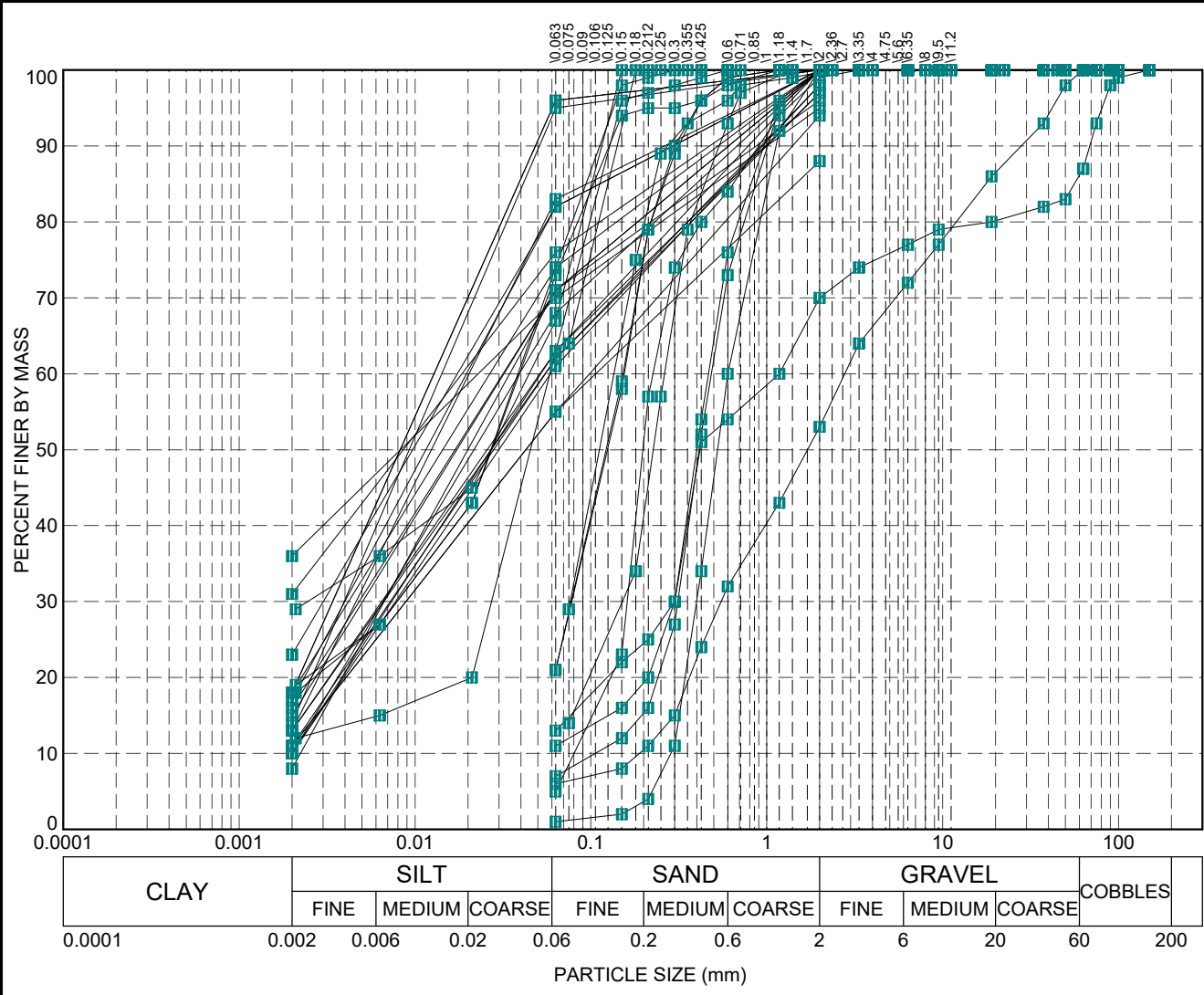
DGD1-P.5.03.1.GLB Graph A.L.CS PSD ENVELOPE SUMMARY DGD1-P.5.03.2.GPJ --DrawingFile--> 9/9/2020 16:49 10.01.00.11 Datgel Lab and In Situ Tool - DGD1-Lab and In Situ Tool - DGD1-CLST.5.03.1.2020-09-05



PARTICLE SIZE (mm)	0.063 0.075 0.09 0.106 0.125 0.15 0.18 0.212 0.25 0.3 0.355 0.425 0.6 0.71 0.85 1 1.18 1.4 1.7 2.36 3 3.35 4 4.75 6 6.35 8 9.5 11.2
MAX	
MIN	

	TITLE Datgel Engineer 1 Somewhere, World Construction Project Particle Size Distribution Envelope	DRAWN PMW	DATE 9/9/2020	
		CHECKED	DATE 9/9/2020	
		SCALE Not To Scale		A4
		PROJECT No 5.03.1		FIGURE No 235

DGDTP-5.03.1-UB-GLB-Graph A.L.CS PSD ENVELOPE SUMMARY BY PTID DGDTP-5.03.2.GPJ -<DrawingFile> 9/9/2020 16:50 10.01.00.11 Datgel.Lab.mxd In Situ Tool - DGD Lib DGDTP-5.03.2.2020-09-08 Proj DGDTP-DLST 5.03.1 2020-09-05

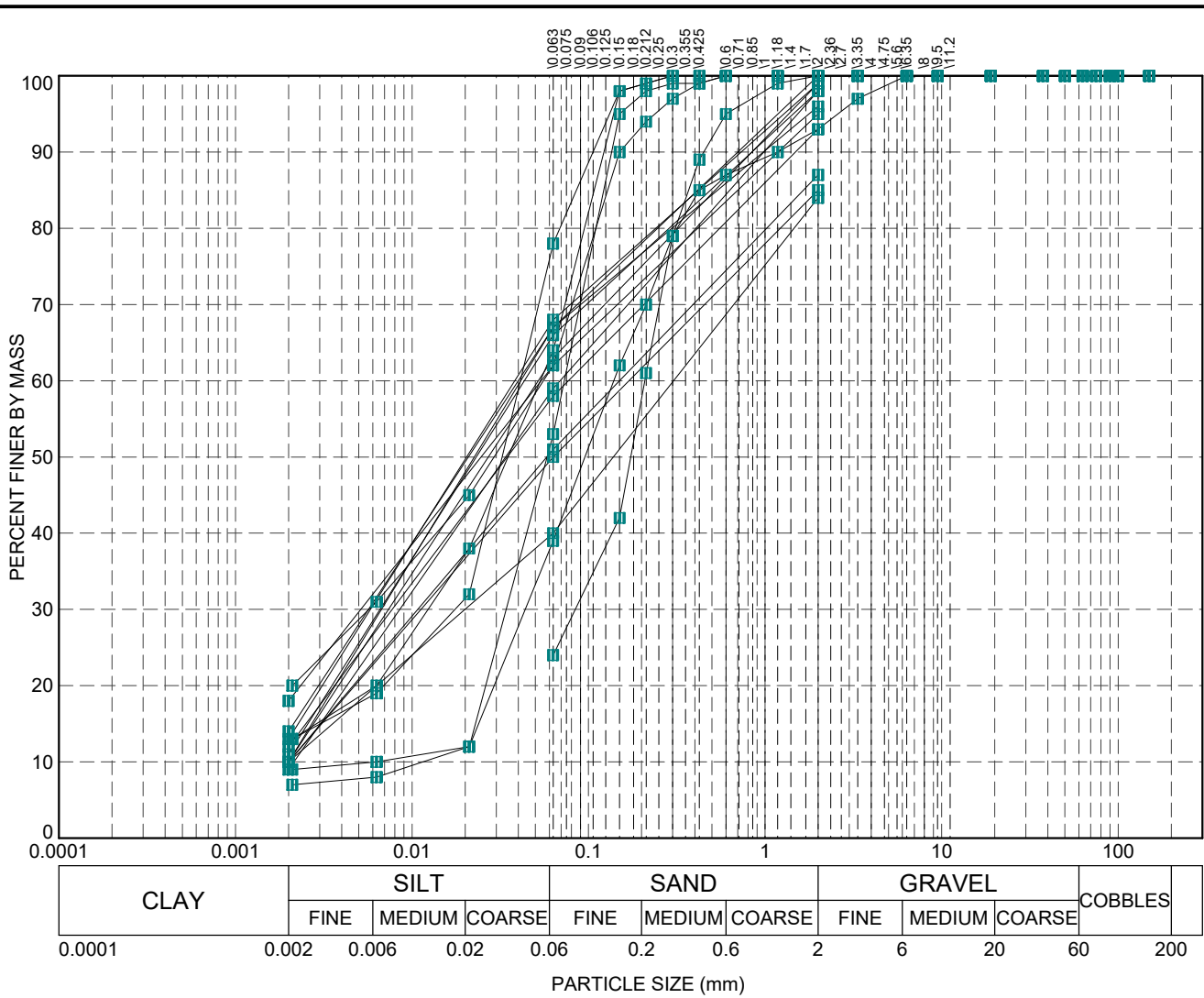


PARTICLE SIZE (mm)	0.063	0.075	0.09	0.106	0.125	0.15	0.18	0.212	0.25	0.3	0.355	0.425	0.6	0.71	0.85	1	1.18	1.4	1.7	2	2.36	3	3.35	4	4.75	6	6.35	8	9.5	11.2	
MAX																															
MIN																															

PointID Legend
■ ST/1090A

	TITLE Datgel Engineer 1 Somewhere, World Construction Project Particle Size Distribution Envelope	DRAWN PMW	DATE 9/9/2020
		CHECKED	DATE 9/9/2020
		SCALE Not To Scale	A4
		PROJECT No 5.03.1	FIGURE No 236

DGDTP.5.03.1.LIB.GLB Graph A.L.CS PSD ENVELOPE SUMMARY BY PTID DGDTP.5.03.2.GPJ <<DrawingFile>> 9/9/2020 16:51 10.01.00.11 Datgel.Lab.mxd In Situ Tool - DGD | Lib: DGDTP.5.03.2.2020-09-08 Proj: DGDTP-DLST.5.03.1.2020-09-05



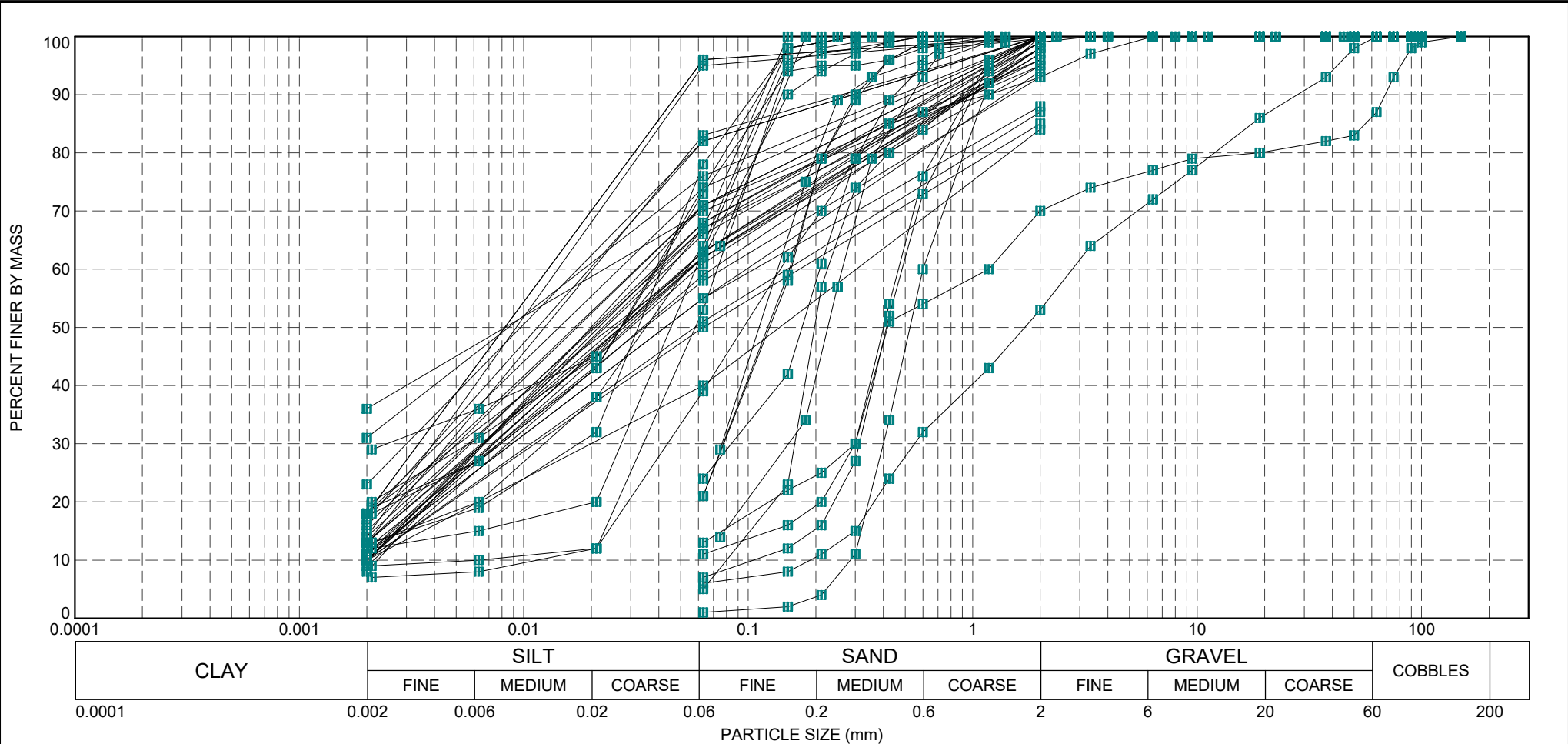
PARTICLE SIZE (mm)	0.063	0.075	0.09	0.106	0.125	0.15	0.18	0.25	0.3	0.355	0.425	0.6	0.71	0.85	1	1.18	1.4	1.7	2	2.36	3	3.35	4	4.75	6	6.35	8	9.5	11.2	
MAX																														
MIN																														

PointID Legend




TITLE
Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Particle Size Distribution Envelope

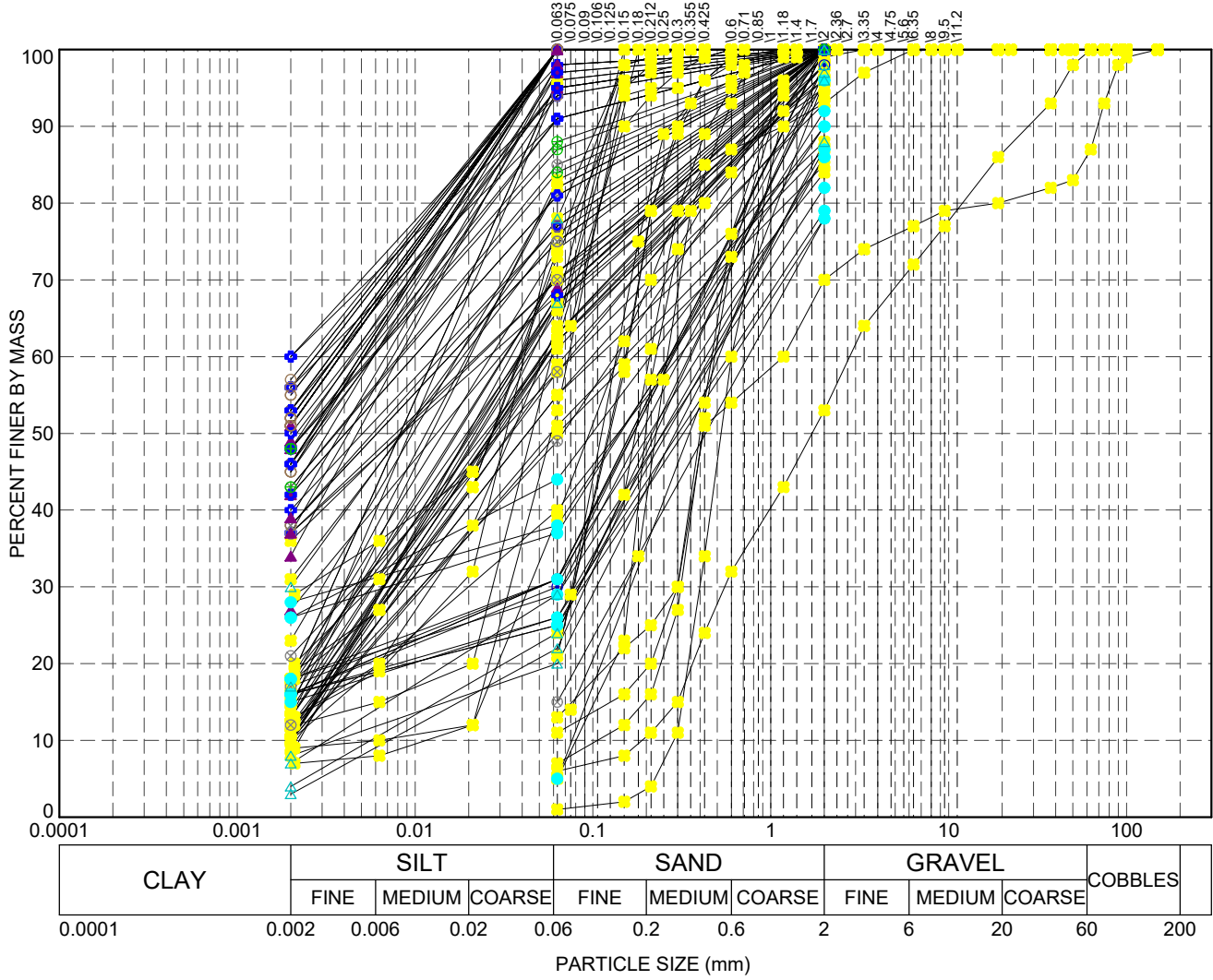
DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	236



PointID Legend
 ■ ST/1090A

 <p>Datgel DATA SOLUTIONS Geotechnics • Geoenvironment • Laboratory</p>	TITLE	Datgel Engineer 1 Somewhere, World Construction Project Particle Size Distribution Envelope		DRAWN	PMW	DATE	9/9/2020	
				CHECKED		DATE	9/9/2020	
				SCALE	Not To Scale		A4	
				PROJECT No	5.03.1		FIGURE No	237

D:\CDT-P\5.03.1\CDT-P 5.03.1.GB.LIB\GLB Graph A.L.CS PSD ENVELOPE SUMMARY BY UNIT.DCDT-P 5.03.2.GB.L <<DrawingFile>> 9/9/2020 16:52 10.01.00.11 Datgel Lab and In Situ Tool - DCDT-P 5.03.2 2020-09-08 Proj.DCDT-DIST 5.03.1 2020-09-05



PARTICLE SIZE (mm)	0.063 0.075 0.09 0.106 0.125 0.15 0.18 0.212 0.25 0.3 0.355 0.425 0.6 0.71 0.85 1 1.18 1.4 1.7 2.0 2.36 2.8 3.35 4 4.75 5.6 6.35 7.5 8.5 9.5 11.2
MAX	
MIN	

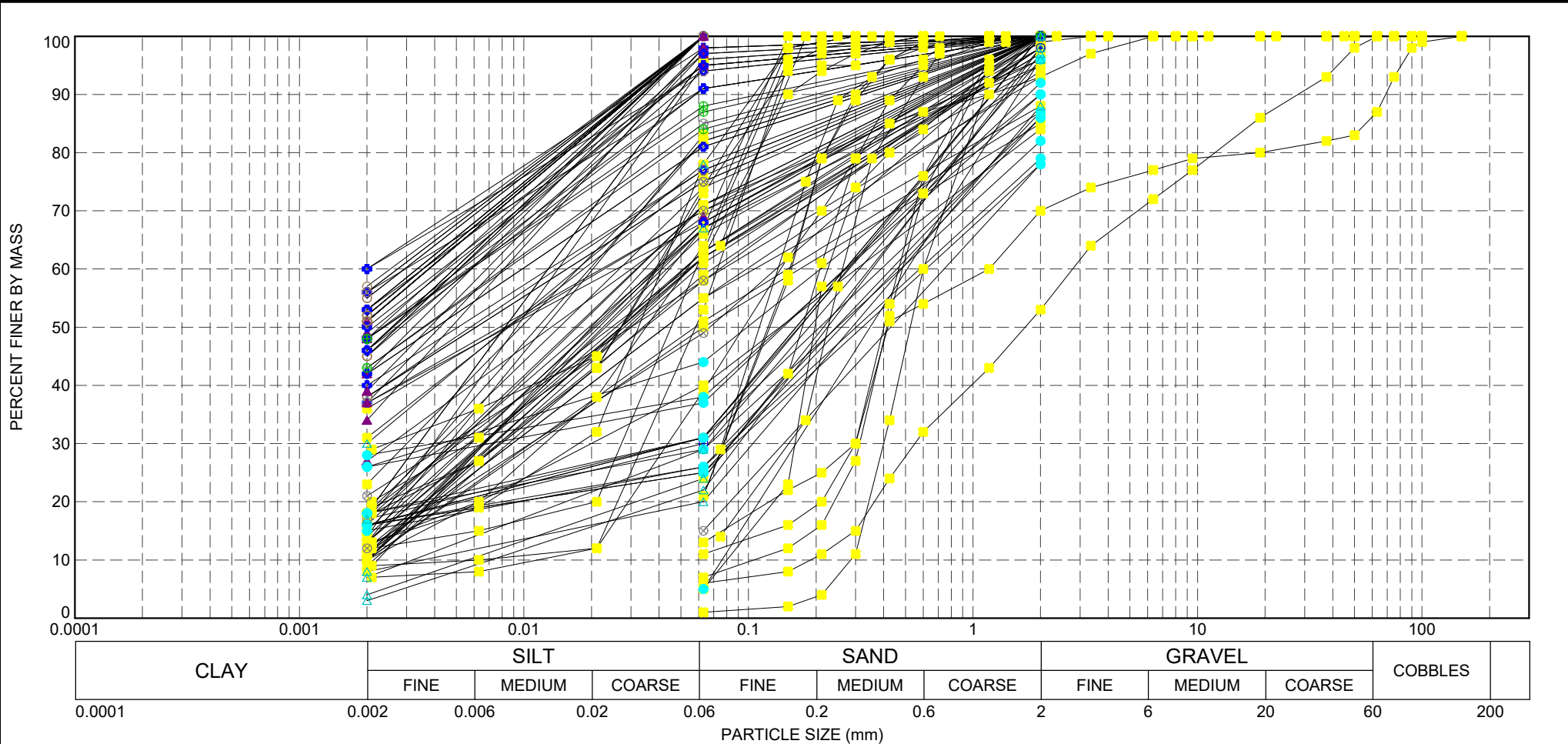
Geology Unit Legend

- FILL - BACKFILL
 - ▲ E - Estuarine (Transitional)
 - F1 - Alluvial soil (Granular)
 - ◐ F2 - Alluvial soil (Non-granular)
 - M - Marine Clay
 - △ O(A) - Old Alluvium (Unweathered)
 - ⊗ O(B) - Old Alluvium (Partially weathered)
 - ⊕ O(C) - Old Alluvium (Distinctly weathered)
- G(VI) - Granite (rocks & associated soils) Residua...



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Particle Size Distribution Envelope

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	238



Geology Unit Legend

- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- F1 - Alluvial soil (Granular)
- ⊕ F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- △ O(A) - Old Alluvium (Unweathered)
- ⊗ O(B) - Old Alluvium (Partially weathered)
- ⊕ O(C) - Old Alluvium (Distinctly weathered)

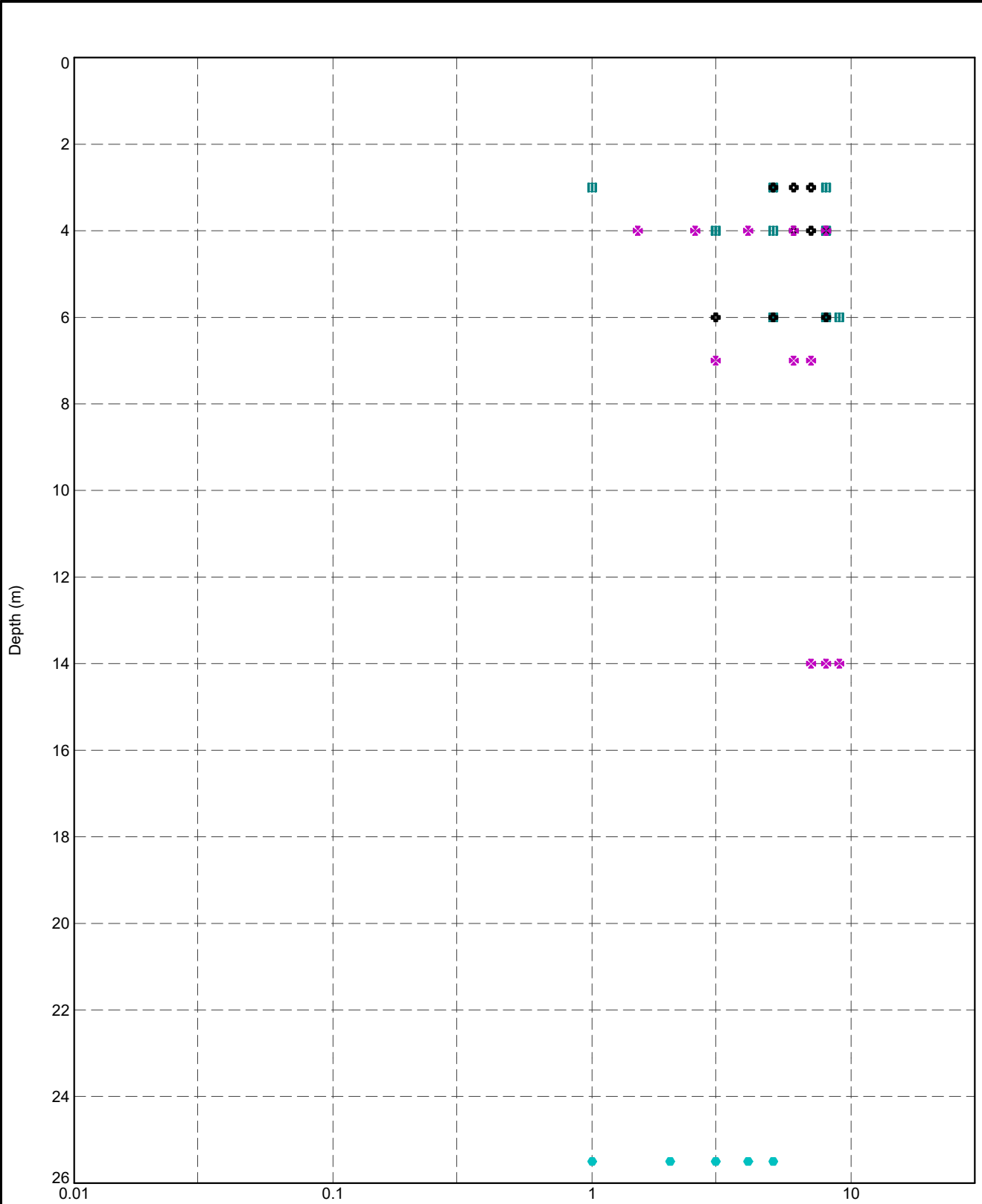
■ G(VI) - Granite (rocks & associated soils) Residua...



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Particle Size Distribution Envelope

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	239

DGDTP.5.03.1.DATGEL.LOAD.LOG.VS.DEPHTH.BY.PTID.DGDTP.5.03.2.0209.08.F1.DGDTP.5.03.1.2020.09.05



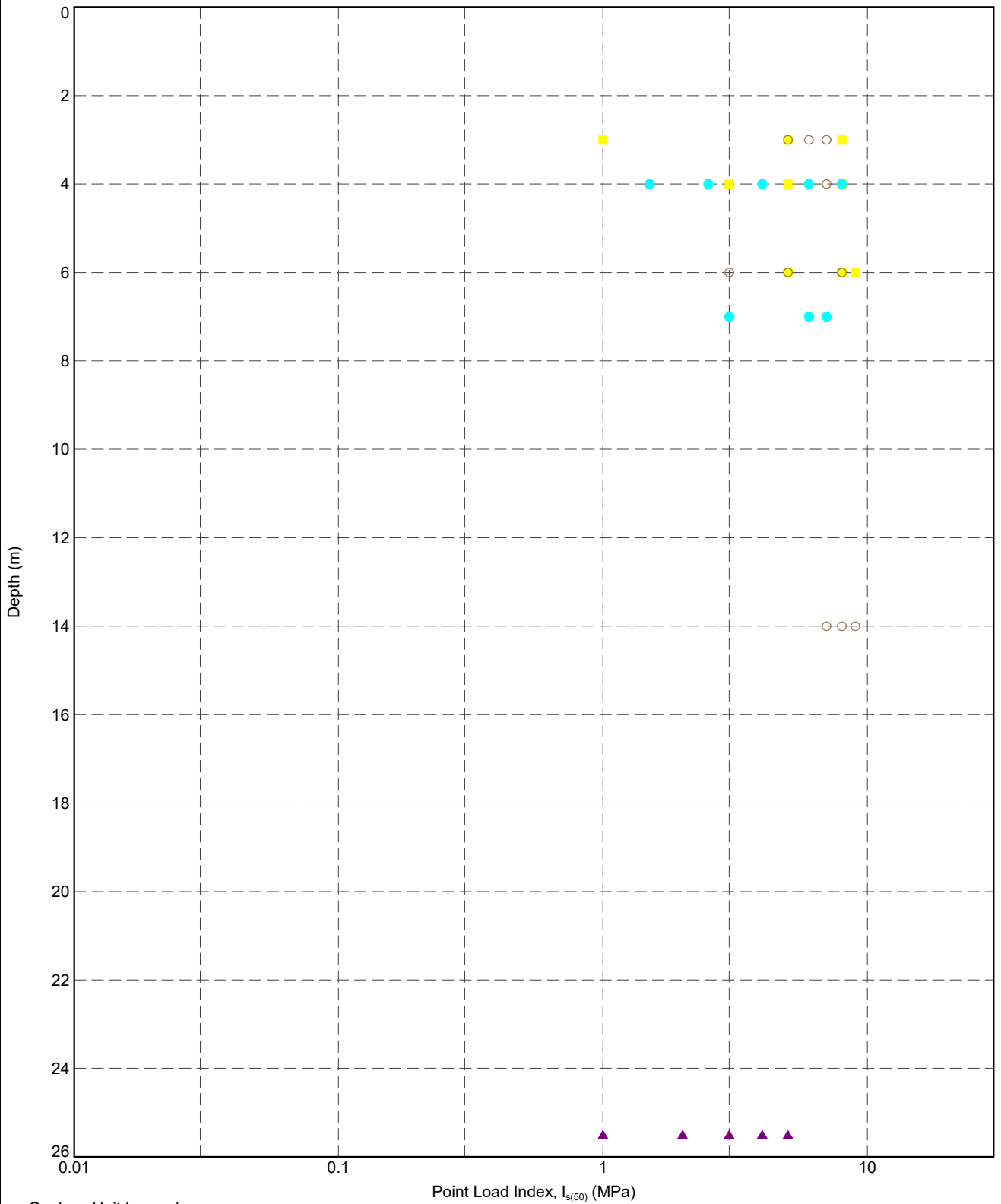
PointID Legend
■ ST/1090A
◆ ST/1149A
× ST/1162A/PZW
● ST/1162B/VST_PZW



TITLE
Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 $I_{s(50)}$ vs. Depth - Test Type: A B D I

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	240

DGD1-P.5.03.1-UB.GLB Graph A.L.R POINT LOAD LOG VS DEPTH BY UNIT DGD1-P.5.03.2.GPJ -<DrawingFile> 9/9/2020 16:52:10.01.00.11 Datgel.Lab and In Situ Tool - DGD1 [Lib: DGD1-P.5.03.2.2020-09-08 Proj: DGD1-DIST.5.03.1.2020-09-05]



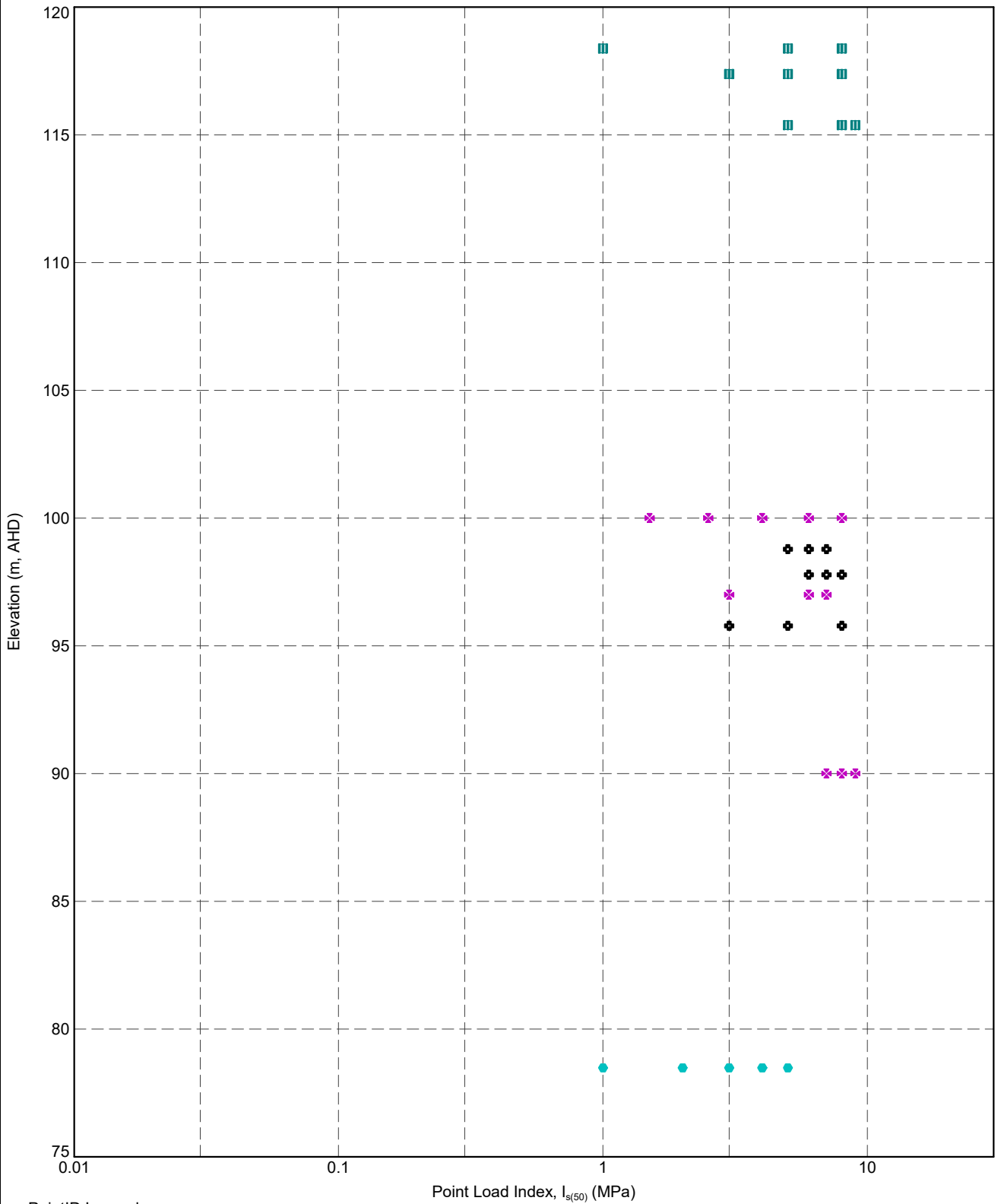
Geology Unit Legend
 ● FILL - BACKFILL
 ▲ E - Estuarine (Transitional)
 ○ M - Marine Clay
 ■ G(VI) - Granite (rocks & associated soils) Residua...



TITLE
Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 $I_{s(50)}$ vs. Depth - Test Type: A B D I

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	241

DGD1-P.5.03.2.LIB.GLB_Graph A.L.R.POINT LOAD.LOG.VS.RL BY PTD, DGD1-P.5.03.2.GPJ -> DrawingFile -> 9/9/2020 16:53 10.01.00.11 Datgel Lab and In Situ Test - DGD1-Lib.DGD1-P.5.03.2.2020-09-08 Pjt: DGD1-D1, ST 5.03.1, 2020-09-05



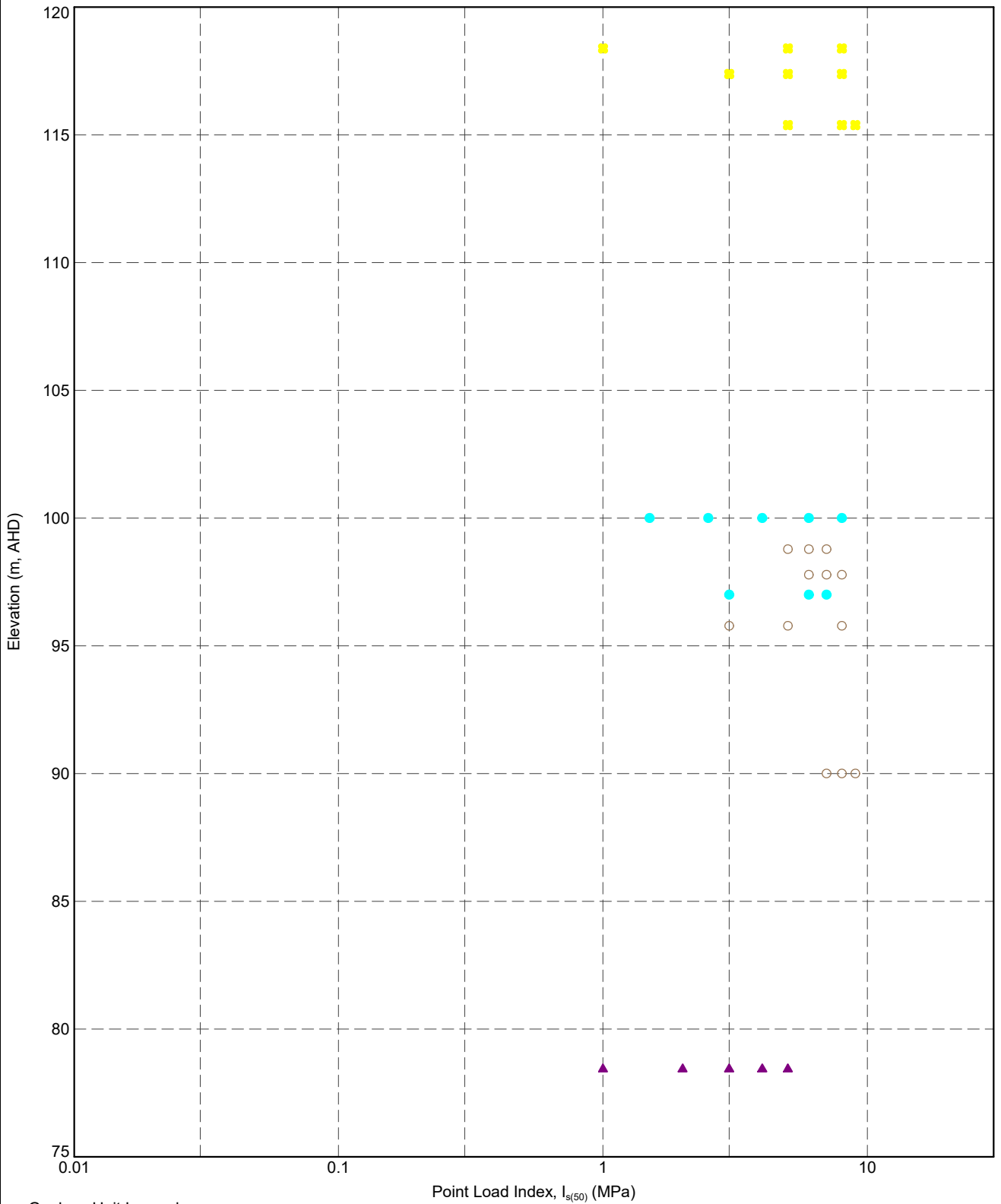
PointID Legend
■ ST/1090A
● ST/1149A
✕ ST/1162A/PZW
● ST/1162B/VST_PZW



TITLE
Datgel
Engineer 1
Somewhere, World
Construction Project
 $I_{s(50)}$ vs. Elev. - Test Type: A B D I

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	242

DGD1-P.5.03.2.LIB.GLB_Graph A.L.R.POINT LOAD.LOG.VS.RL.BY UNIT DGD1-P.5.03.2.GPJ -<DrawingFile>> 9/9/2020 16:53 10.01.00.11 Datgel Lab and in Situ Tool - DGD1-Lib.DGD1-P.5.03.2.20200908.Pjt.DGD1-DLST.5.03.1.2020-09-05

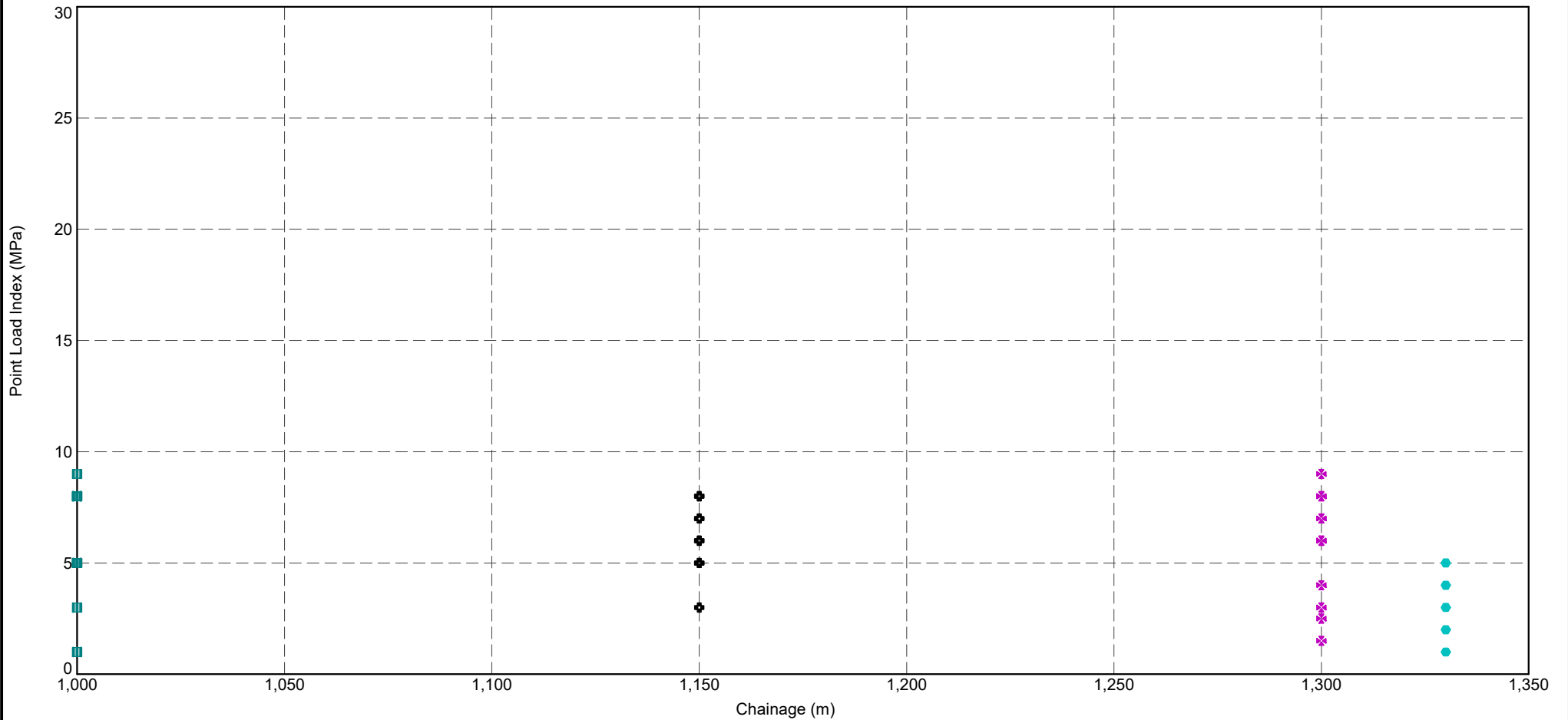


Geology Unit Legend
 ● FILL - BACKFILL
 ▲ E - Estuarine (Transitional)
 ○ M - Marine Clay
 ■ G(VI) - Granite (rocks & associated soils) Residua...




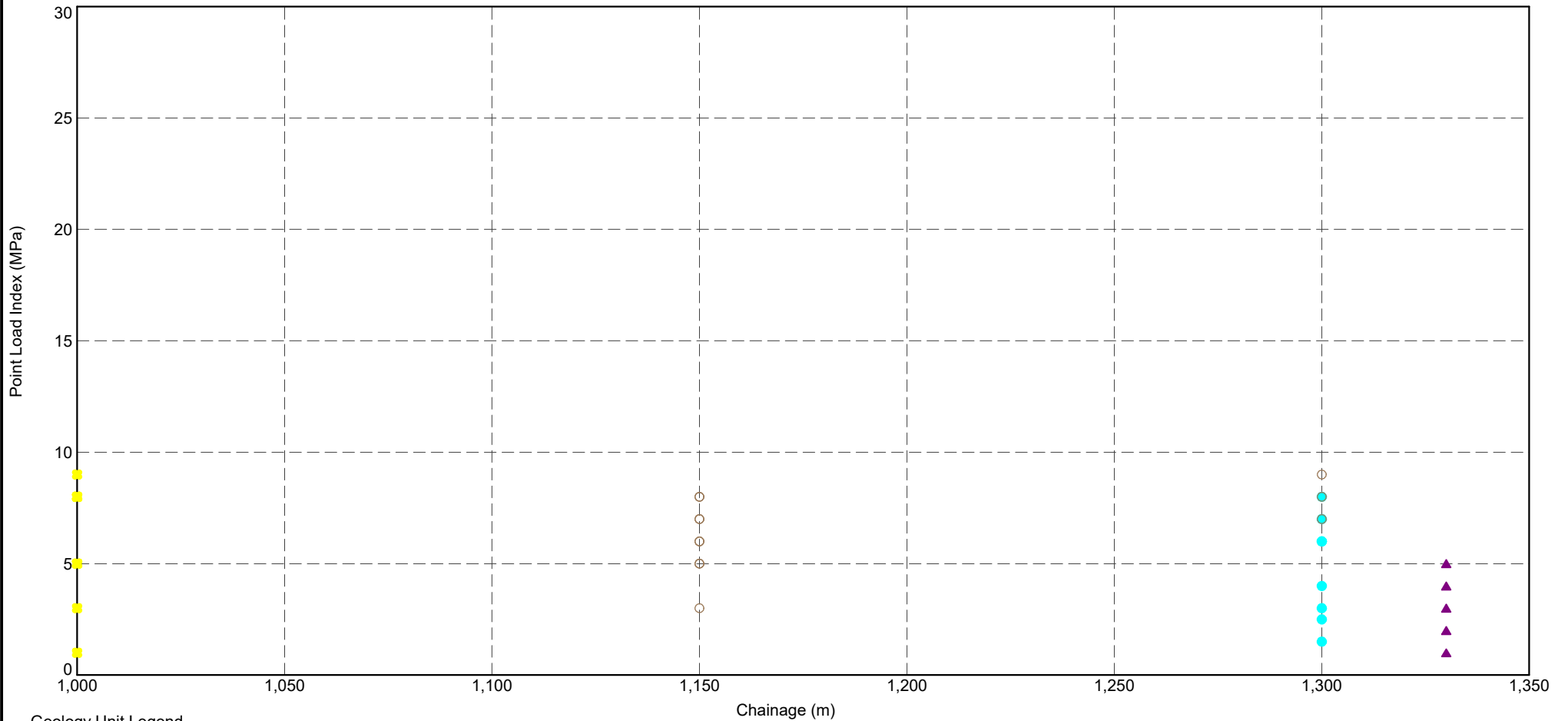
TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 $I_{s(50)}$ vs. Elev. - Test Type: A B D I

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	243



PointID Legend
 ■ ST/1090A
 ■ ST/1149A
 ✖ ST/1162A/PZW
 ● ST/1162B/VST_PZW

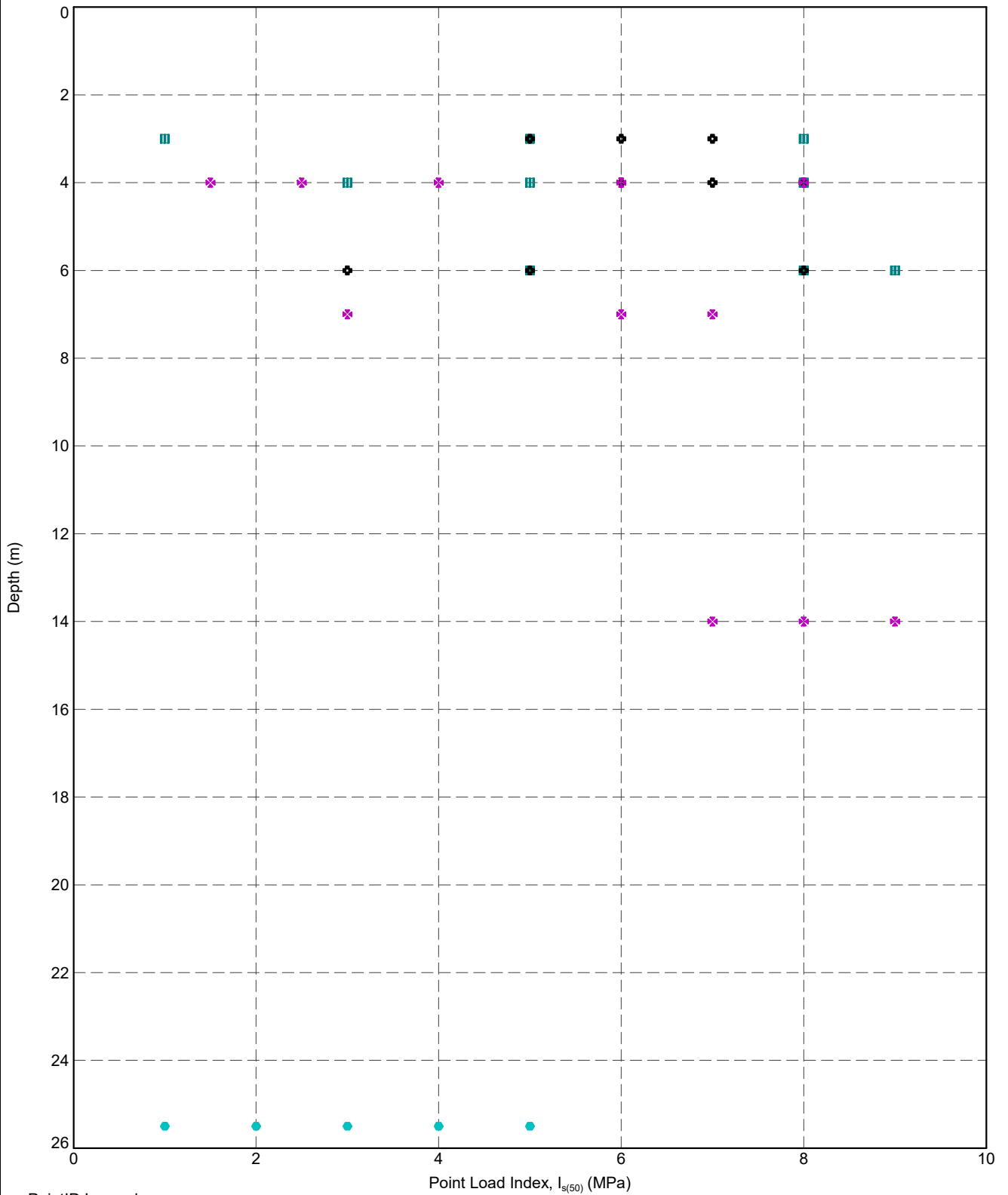
	TITLE	Datgel Engineer 1 Somewhere, World Construction Project $I_{s(50)}$ vs. Chainage - Test Type: A B D I		DRAWN	PMW	DATE	9/9/2020
				CHECKED		DATE	9/9/2020
				SCALE	Not To Scale		A4
				PROJECT No	5.03.1	FIGURE No	244



Geology Unit Legend
 ● FILL - BACKFILL
 ▲ E - Estuarine (Transitional)
 ○ M - Marine Clay
 ■ G(VI) - Granite (rocks & associated soils) Residua...

	TITLE	Datgel Engineer 1 Somewhere, World Construction Project		DRAWN	PMW	DATE	9/9/2020
		I _{s(50)} vs. Chainage - Test Type: A B D I		CHECKED		DATE	9/9/2020
				SCALE	Not To Scale		A4
				PROJECT No	5.03.1	FIGURE No	245

DGDTP.5.03.2.LIB.GLB_Graph_A.L.R.POINT_LOAD_VS_DEPTH_BY_PTID.DGDTP.5.03.2.GPJ <<DrawingFile>> 9/9/2020 16:53 10.01.00.11 Datgel Lab and In Situ Tool -DGD Lib- DGDTP.5.03.2.2020-09-09.Pjt.DGDTP.5.03.1.2020-09-05



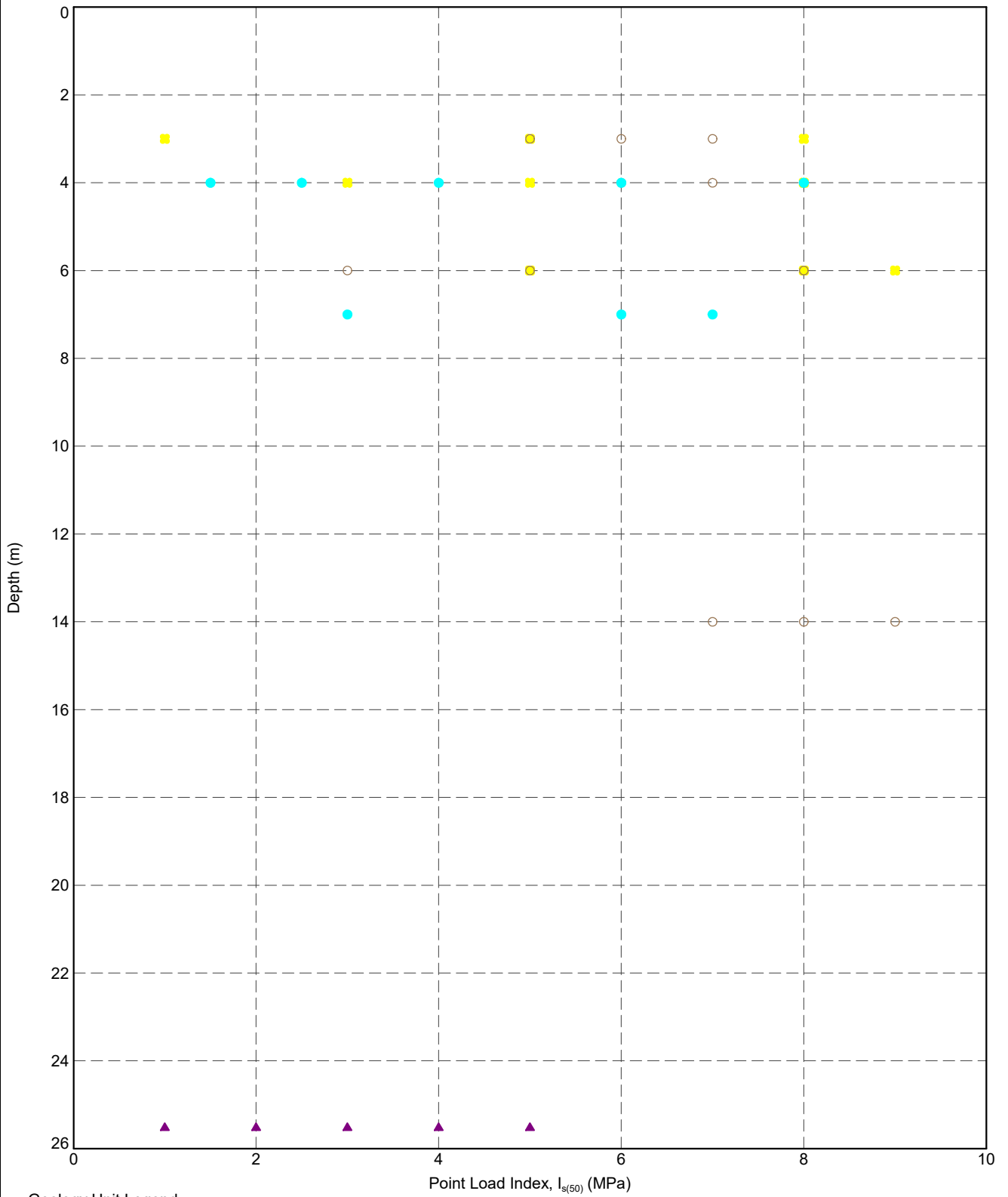
PointID Legend
 ■ ST/1090A
 ◆ ST/1149A
 ✕ ST/1162A/PZW
 ● ST/1162B/VST_PZW



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Point Load Index vs. Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	246

DGD1-P.5.03.2.LIB.GLB_Graph_A.L.R.POINT LOAD_VS DEPTH BY UNIT DGD1-P.5.03.2.GPJ --DrawingFile--> 9/9/2020 16:53 10.01.00.11 Datgel Lab used in Situ Test - DGD1 Lib - DGD1-P.5.03.2.2020-09-09 Plt - DGD1-CLIST 5.03.1.2020-09-05



Geology Unit Legend

- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- M - Marine Clay
- G(VI) - Granite (rocks & associated soils) Residua...

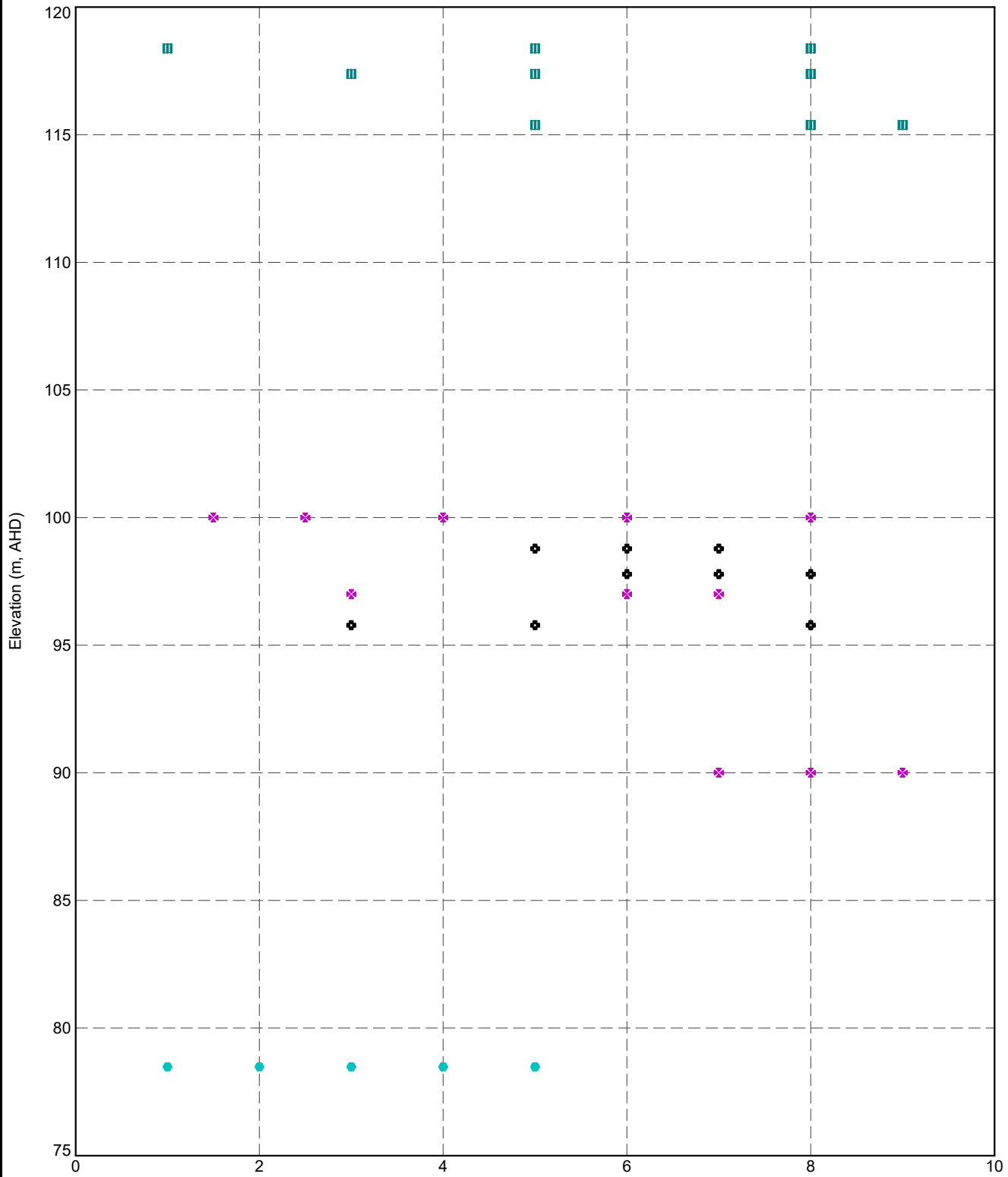


TITLE

Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Point Load Index vs. Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	247

DGD1-P.5.03.1-UB.GLB_Graph_A.L.R.POINT_LOAD_VS.RL.BY.PTID.DGD1-P.5.03.2.GPJ <<DrawingFile>> 9/9/2020 16:53:10:01:00:11 Datgel Lab. and In Situ Tool - DGD | Lib: DGD1-P.5.03.2.2020-09-08 Proj: DGD1-DLST 5.03.1.2020-09-05



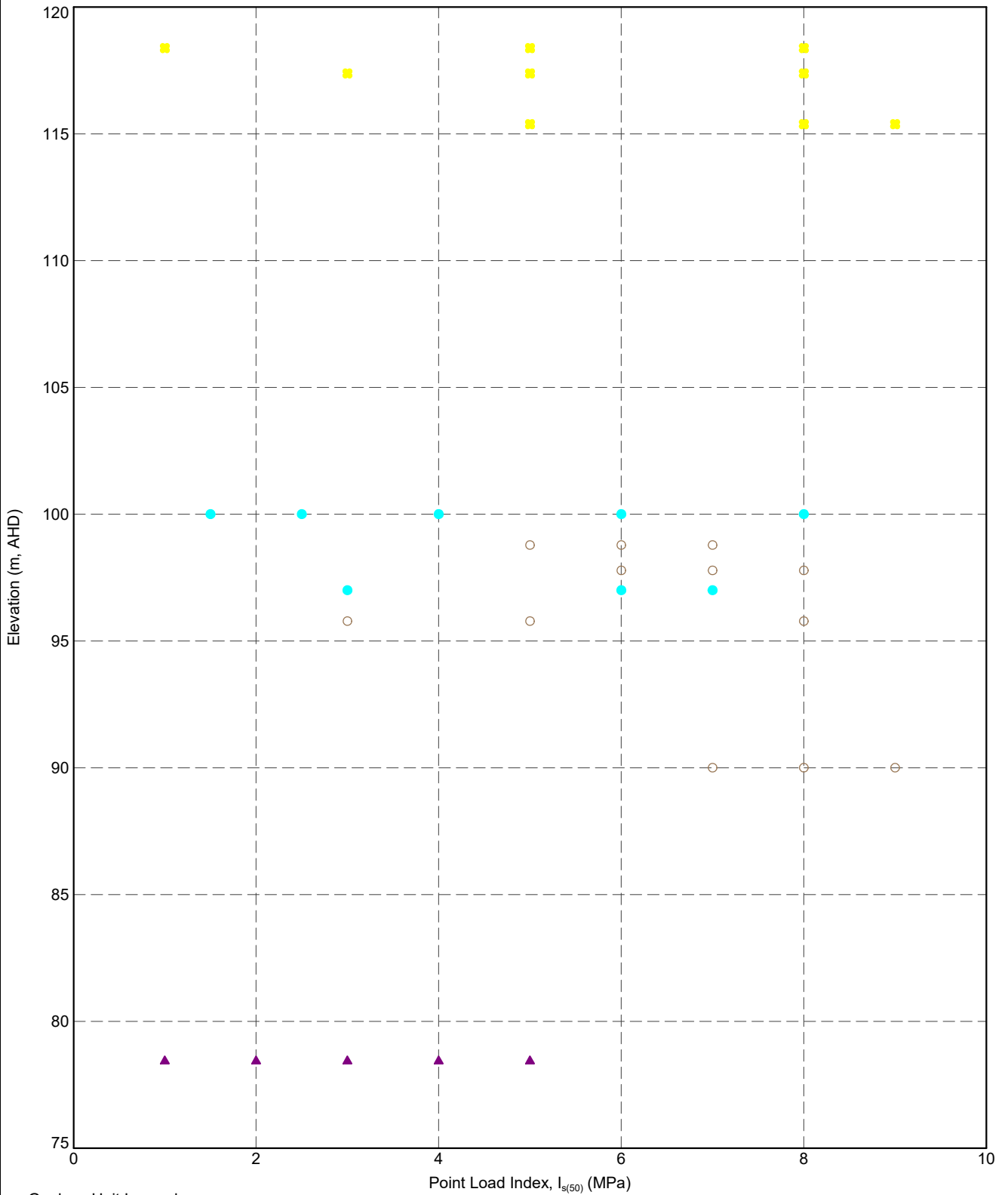
PointID Legend
 ■ ST/1090A
 ■ ST/1149A
 ✕ ST/1162A/PZW
 ● ST/1162B/VST_PZW



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Point Load Index vs. Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	248

DGD1-P.5.03.1.GLB_Graph_A.L.R.POINT LOAD_VS.RI.BY UNIT_DGD1-P.5.03.2.GPJ_<<DrawingFile>> 8/9/2020 16:53 10.01.00.11 Datgel Lab and In Situ Tool - DGD | Lib: DGD1-P.5.03.2.2020.09.08 Proj: DGD1-DLST.5.03.1.2020-09-05



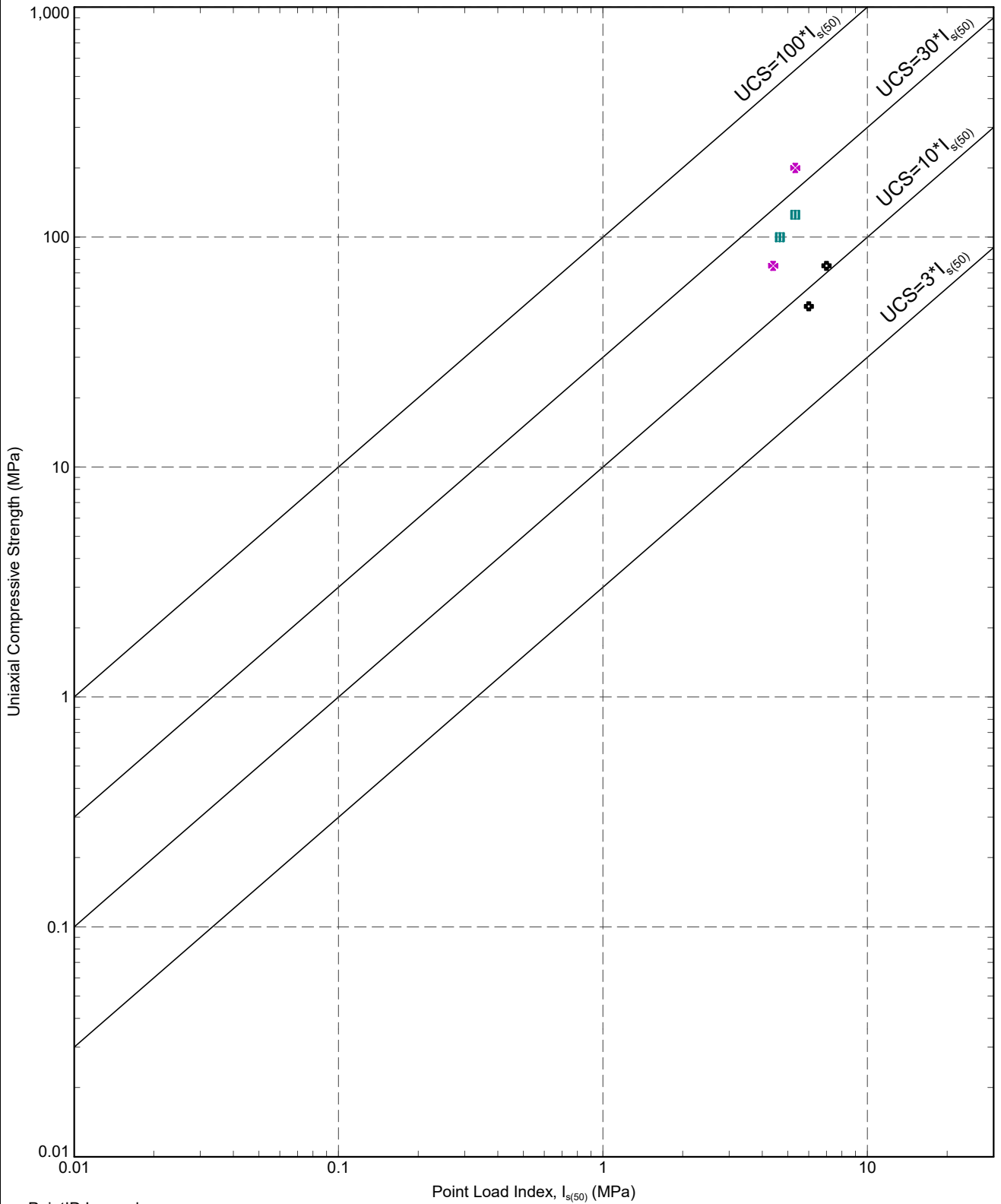
Geology Unit Legend
 ● FILL - BACKFILL
 ▲ E - Estuarine (Transition)
 ○ M - Marine Clay
 ■ G(VI) - Granite (rocks & associated soils) Residua...



TITLE
Datgel
Engineer 1
Somewhere, World
Construction Project
Point Load Index vs. Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	249

DGD1-P.5.03.2.LIB.GLB_Graph A.L.R.POINT LOAD VS UCS BY FTID DGD1-P.5.03.2.GPJ -<DrawingFile>- 9/9/2020 16:53 10.01.00.11 Datgel Lab and In Situ Tool - DGD [Lib.DGD1-P.5.03.2 2020-09-09] Pj: DGD1-CL-ST-5.03.1 2020-09-05



PointID Legend
■ ST/1090A
◆ ST/1149A
✖ ST/1162A/PZW

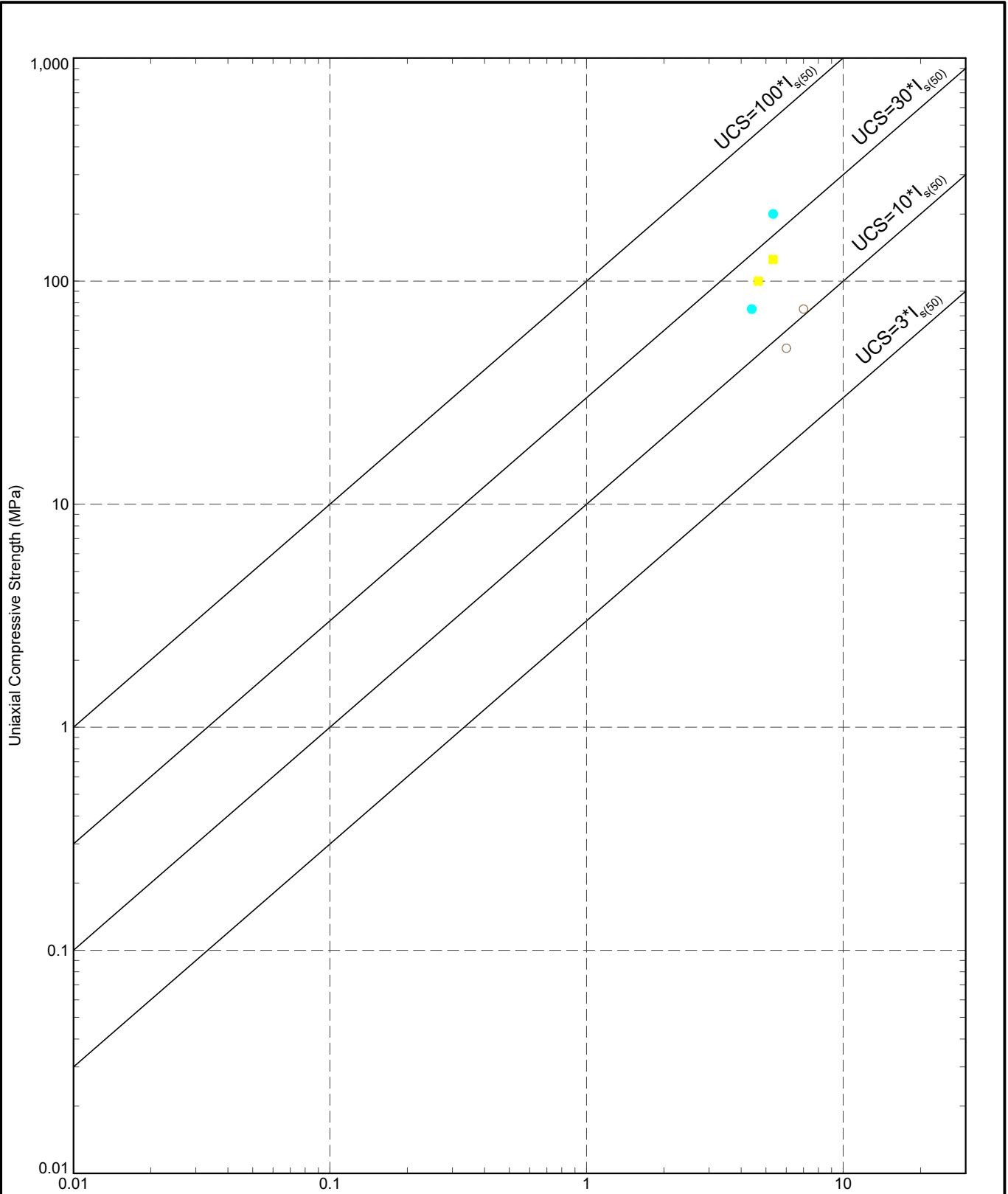


TITLE

Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Point Load Index vs. UCS

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	250

DGD1.P.5.03.1.DATGEL.LAB AND IN SHI.Tool - DGD - DGD Lib, DGD1.P.5.03.2.2020-09-08.P1; DGD1.P.5.03.1.2020-09-05



Geology Unit Legend

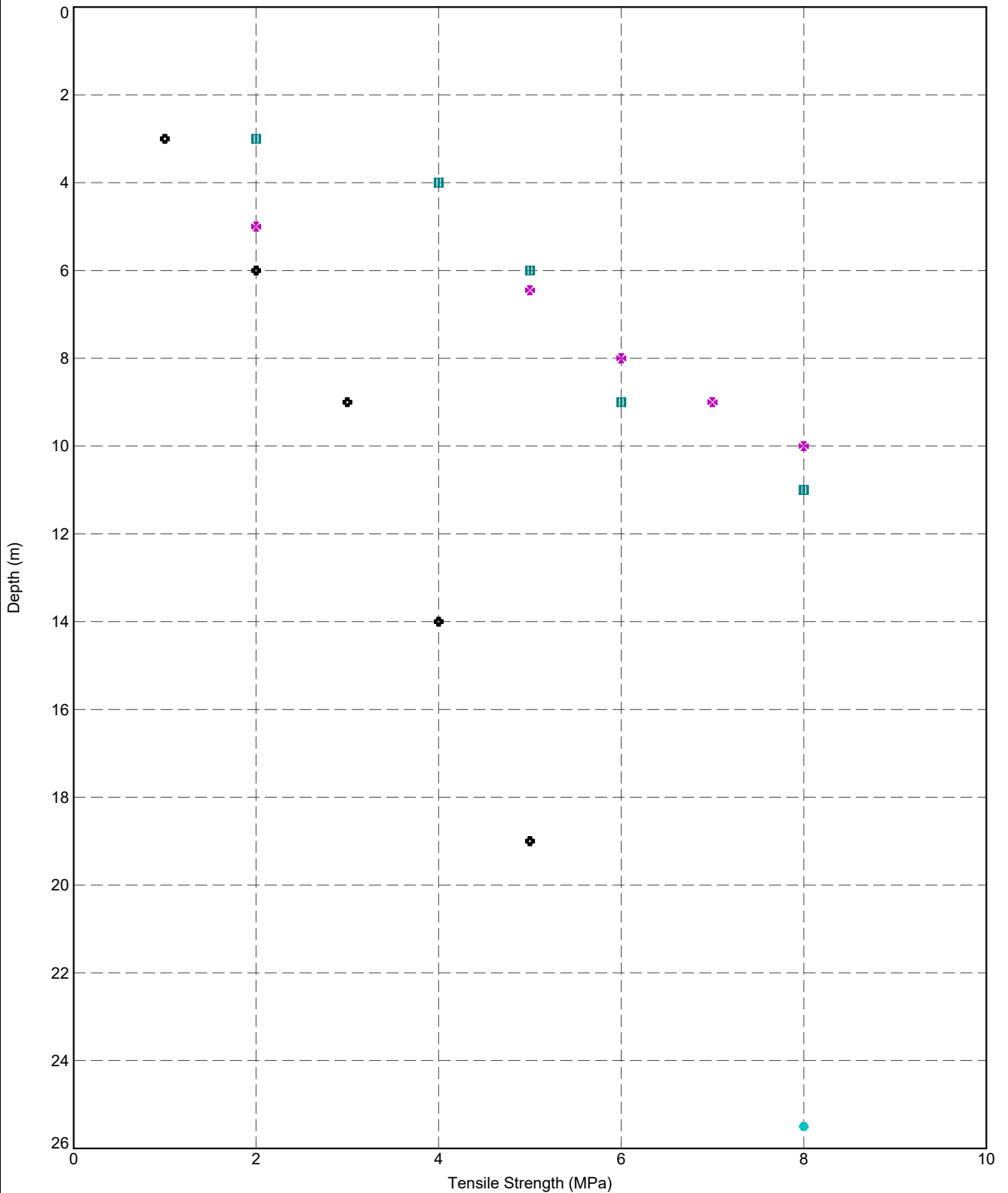
- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- M - Marine Clay
- △ O(A) - Old Alluvium (Unweathered)
- ◇ O(B) - Old Alluvium (Partially weathered)
- G(VI) - Granite (rocks & associated soils) Residua...
- * G(IV) - Granite (rocks & associated soils) Highly ...
- G(III) - Granite (rocks & associated soils) Modera...
- G(II) - Granite (rocks & associated soils) Slightl...



TITLE
Datgel
Engineer 1
Somewhere, World
Construction Project
Point Load Index vs. UCS

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	251

DGDOT-P.5.03.2.LIB.GLB_Graph A.L.R.TENSILE STRENGTH VS DEPTH BY PTID_DGDOT-P.5.03.2.2020-09-08 Proj_DGDOT-DLST.5.03.1.2020-09-05



PointID Legend
 ■ ST/1090A
 ✕ ST/1149A
 ✕ ST/1162A/PZW
 ● ST/1162B/VST_PZW

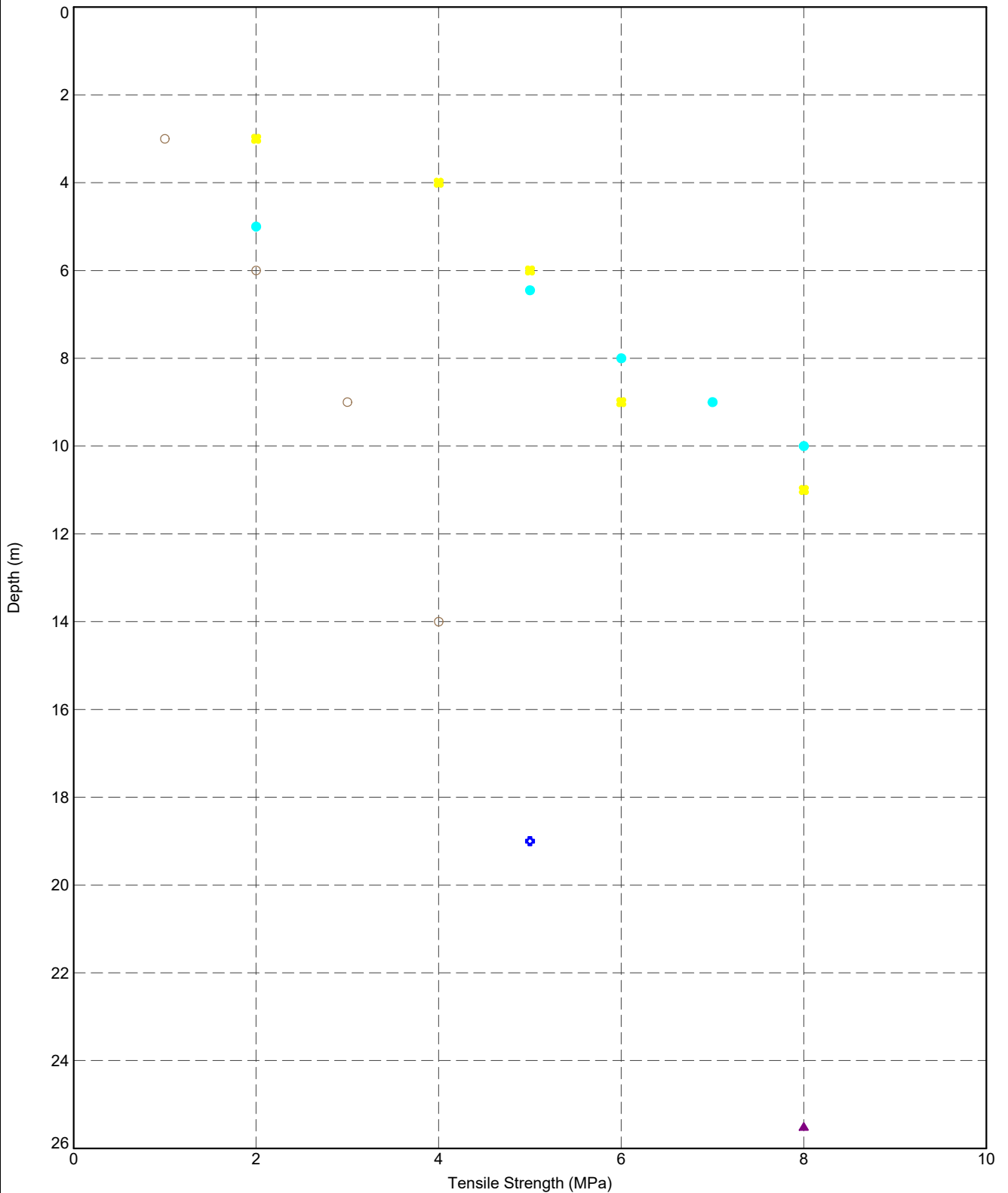


TITLE

Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Tensile Strength versus Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	252

DGD1-P.5.03.2.GLB Graph A.L.R TENSILE STRENGTH VS DEPTH BY UNIT DGD1-P.5.03.2.GPJ <<DrawingFile>> 9/9/2020 16:33:10.01:00.11 Datgel Lab. and In Situ Test - DGD | Lib: DGD1-P.5.03.2.2020-09-08 Proj: DGD1-DLST 5.03.1 2020-09-05



Geology Unit Legend

- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- G(VI) - Granite (rocks & associated soils) Residuals

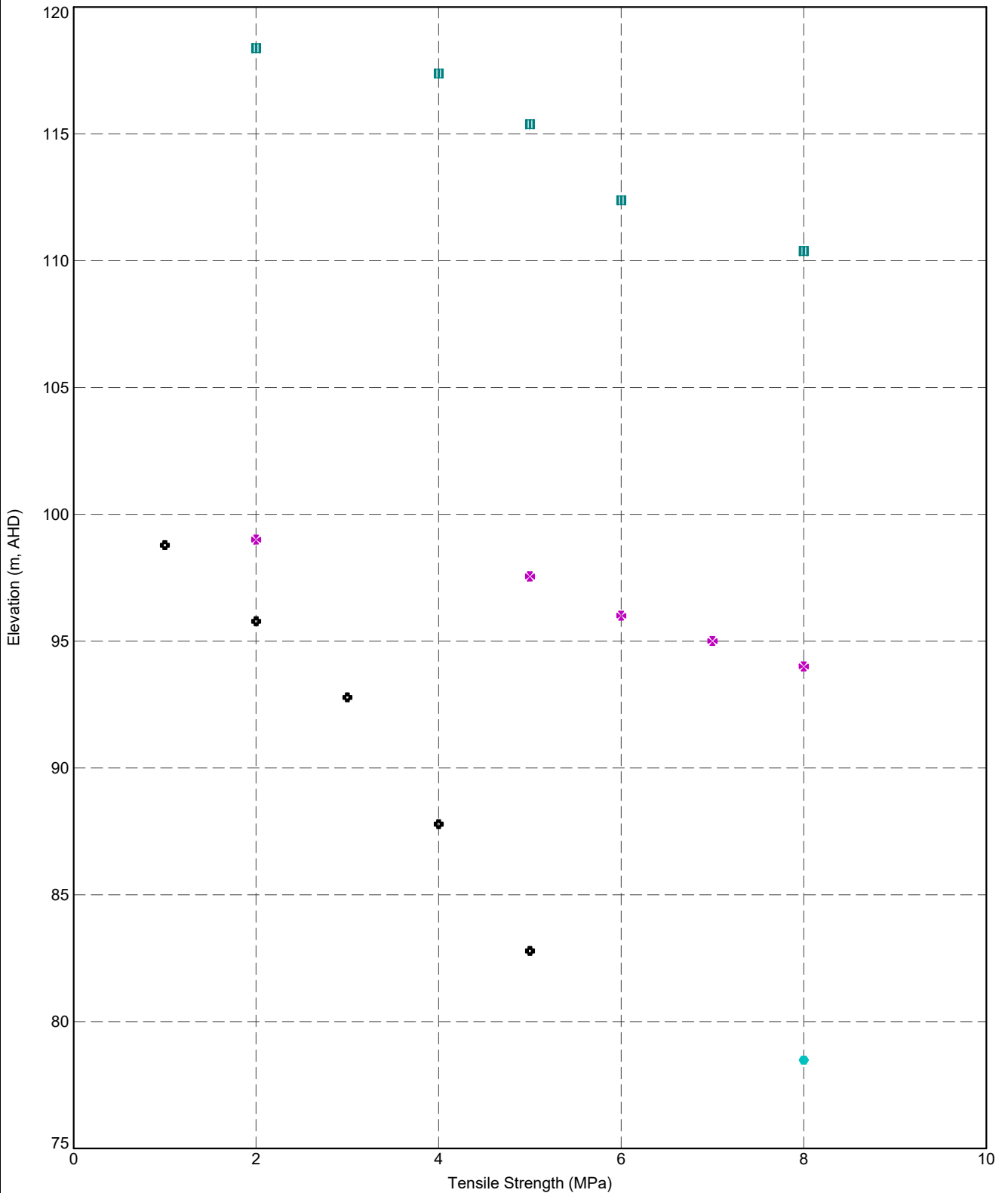


TITLE

Datgel
 Engineer 1
 Somewhere, World
 Construction Project
Tensile Strength versus Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	253

DGD1-P.5.03.2.LIB.GLB_Graph A.L.R.TENSILE STRENGTH VS RILEY FTID, DGD1-P.5.03.2.GPJ -<DrawingFile>> 9/9/2020 16:53 10/11/00.11 Datgel Lab and In Situ Tool - DGD [Lib: DGD1-P.5.03.2 2020-09-08 Plt: DGD1-DLST 5.03.1 2020-09-05]



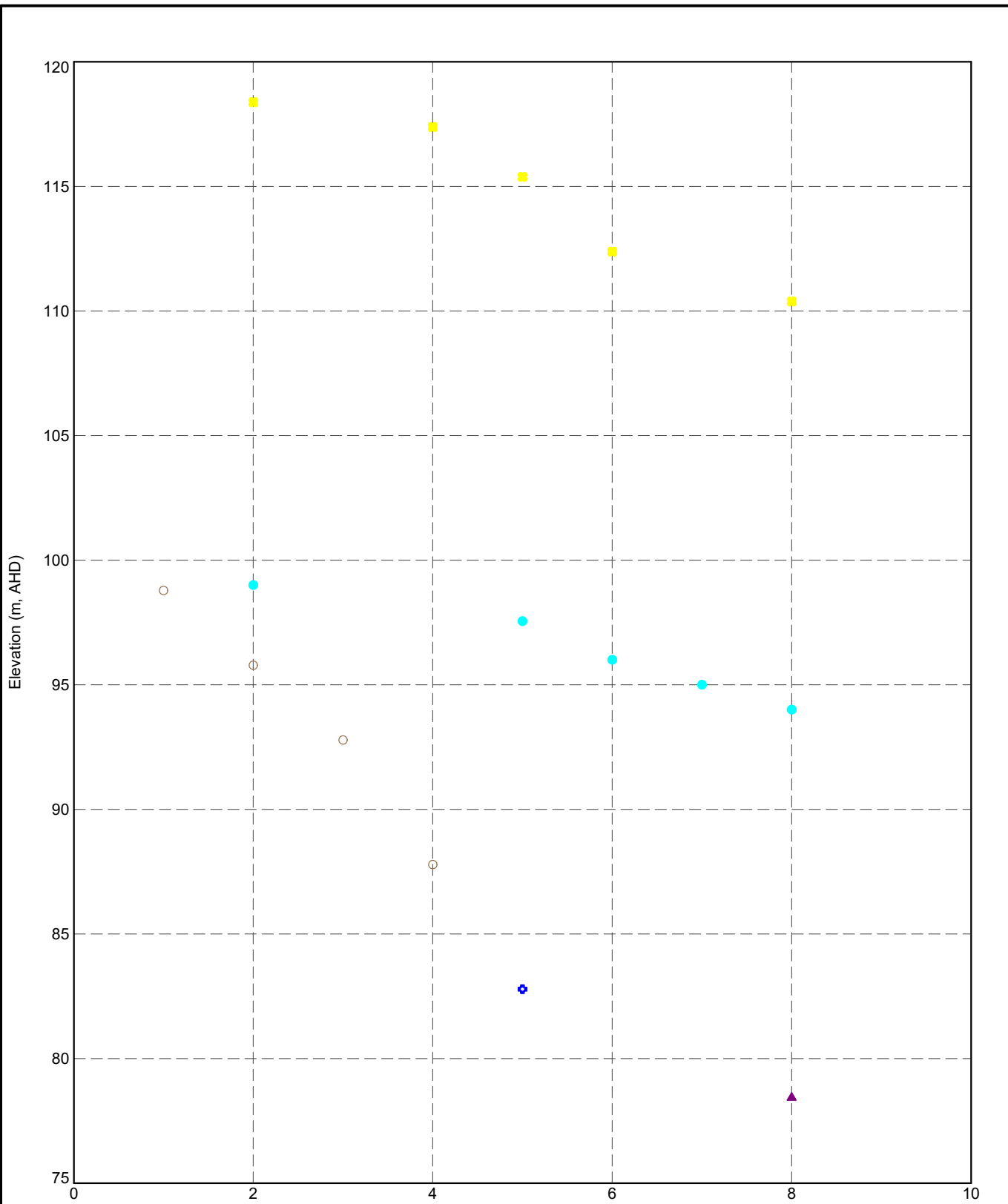
PointID Legend
■ ST/1090A
◆ ST/1149A
× ST/1162A/PZW
● ST/1162B/VST_PZW



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Tensile Strength versus Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	254

DGD1.P.5.03.1.GLB.Graph A.L.R.TENSILE STRENGTH VS RILEY UNIT DGD1.P.5.032.GPJ <DrawingFile>> 9/9/2020 16:53 10.01.00.11 Datgel Lab and In Situ Tool - DGD1.Lib.DGD1.P.5.03.2.20200908.Pjt.DGD1.Lib.ST.5.03.1.2020.09.05

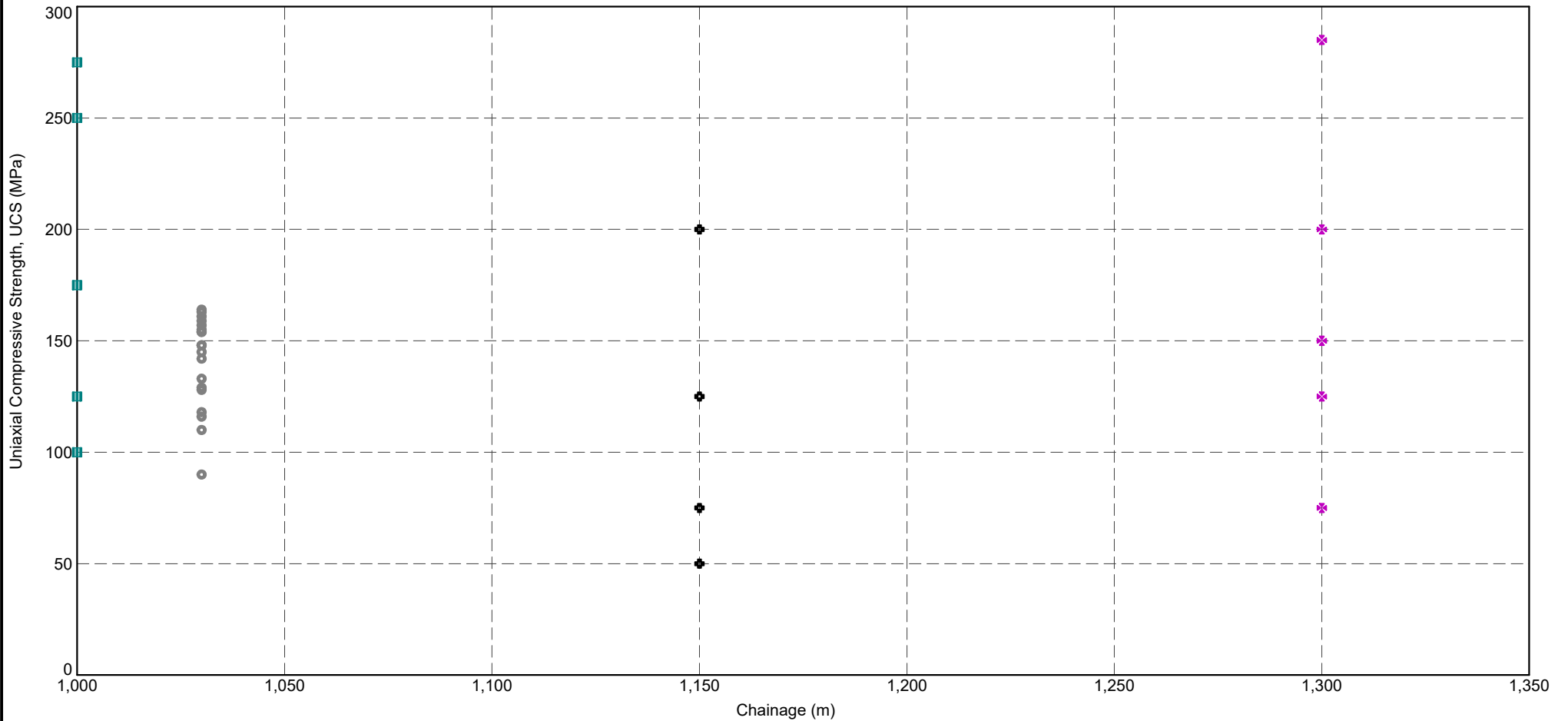


- Geology Unit Legend**
- FILL - BACKFILL
 - ▲ E - Estuarine (Transitional)
 - ◆ F2 - Alluvial soil (Non-granular)
 - M - Marine Clay
 - G(VI) - Granite (rocks & associated soils) Residua...




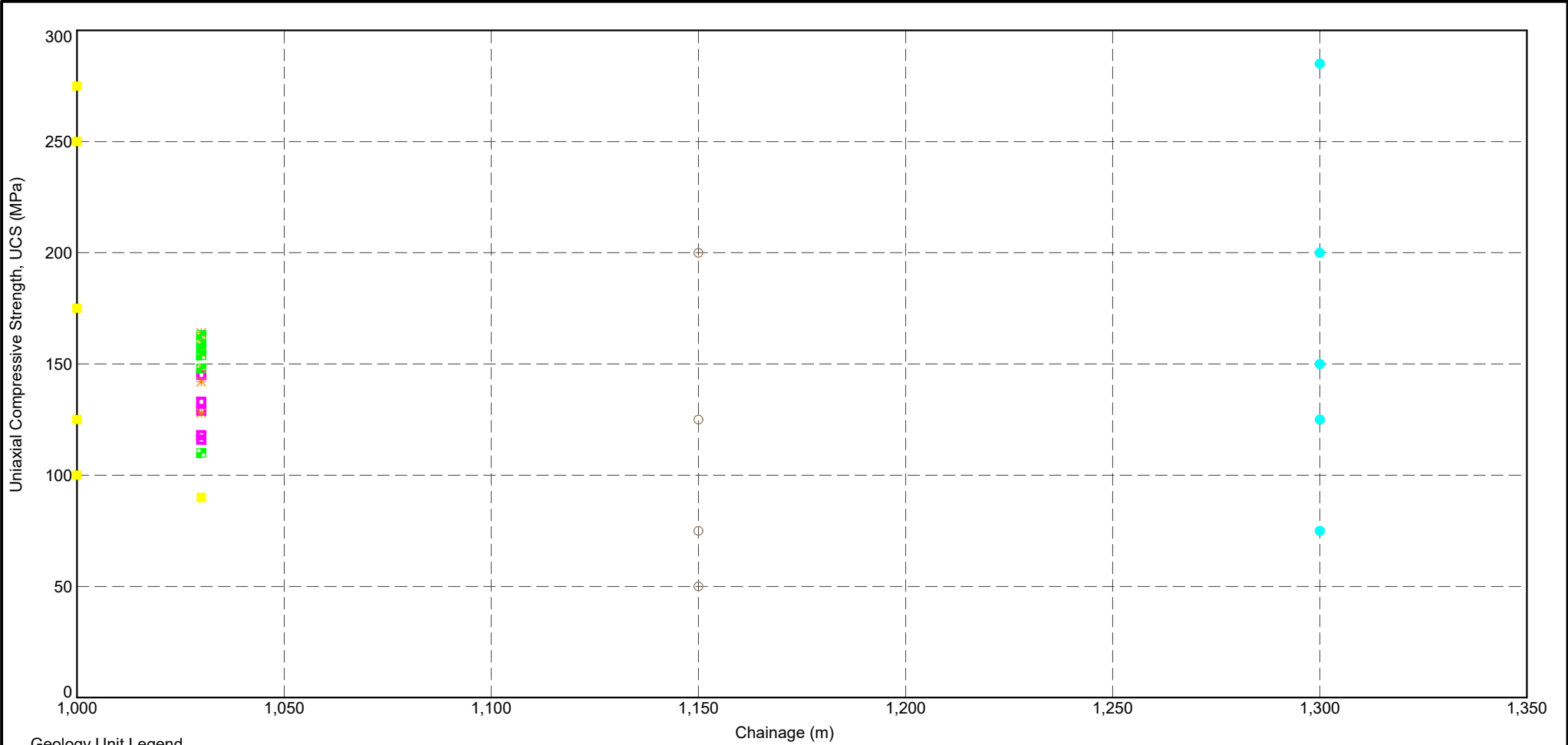
TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Tensile Strength versus Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	255




PointID Legend
 ■ ST/1090A
 ● ST/1090B/PRM
 ⊕ ST/1149A
 ✖ ST/1162A/PZW

	TITLE	Datgel Engineer 1 Somewhere, World Construction Project Uniaxial Compressive Strength vs. Chainage		DRAWN	PMW	DATE	9/9/2020
				CHECKED		DATE	9/9/2020
				SCALE	Not To Scale		A4
				PROJECT No	5.03.1	FIGURE No	256

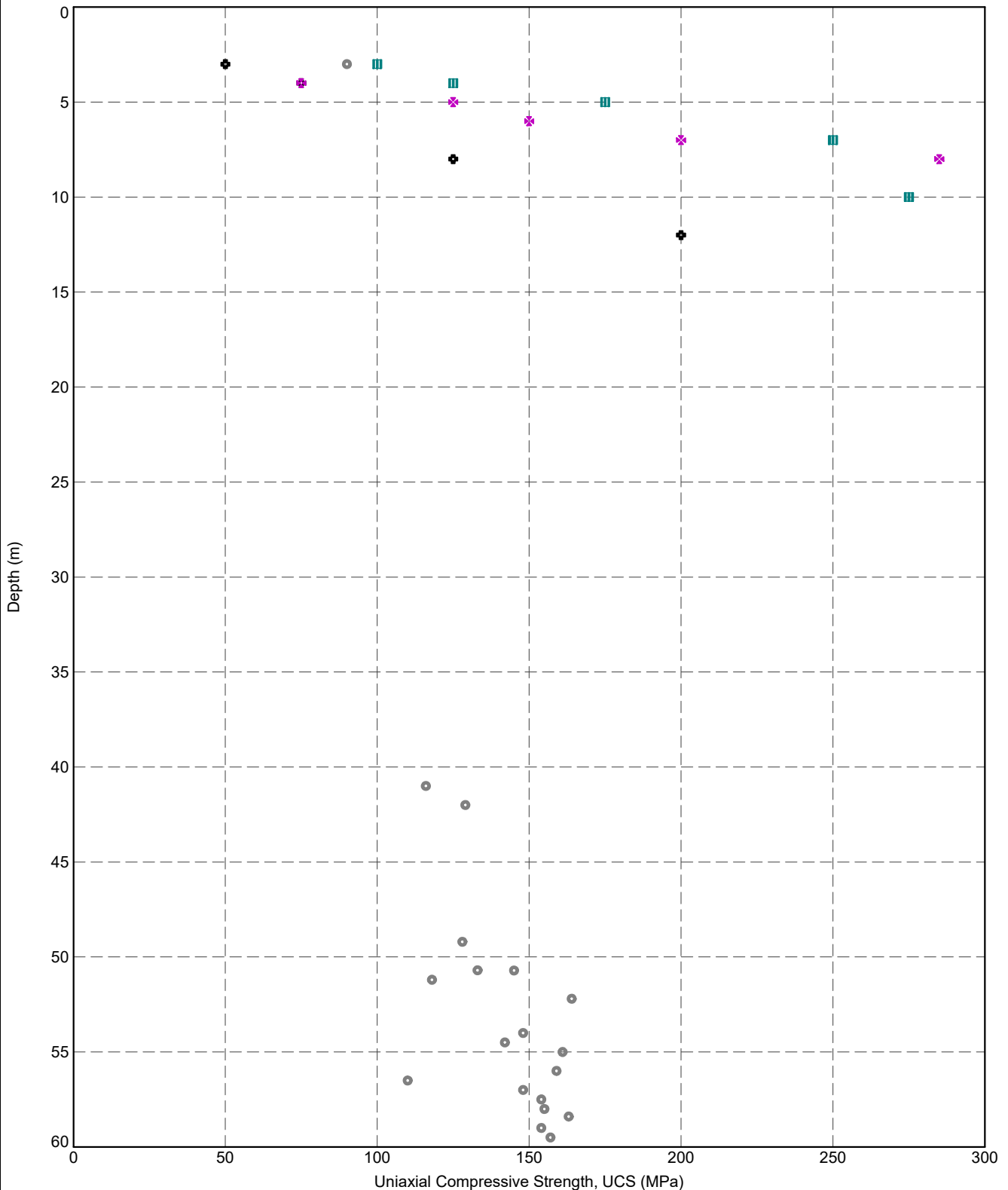


Geology Unit Legend

- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- M - Marine Clay
- △ O(A) - Old Alluvium (Unweathered)
- ⊗ O(B) - Old Alluvium (Partially weathered)
- G(VI) - Granite (rocks & associated soils) Residua...
- * G(IV) - Granite (rocks & associated soils) Highly ...
- G(III) - Granite (rocks & associated soils) Modera...
- G(II) - Granite (rocks & associated soils) Slightl...

	TITLE	Datgel Engineer 1 Somewhere, World Construction Project Uniaxial Compressive Strength vs. Chainage		DRAWN	PMW	DATE	9/9/2020
				CHECKED		DATE	9/9/2020
				SCALE	Not To Scale		A4
				PROJECT No	5.03.1	FIGURE No	257

DGD1-P.5.03.1.LIB.GLB_Graph_A.L.I.R.UCS.VS.DEPTH.BY.PTID_DGD1-P.5.03.2.GPJ -<DrawingFile> 9/9/2020 16:53 10:01:00.11 DatgelLab and In Situ Tool_DGD | Lib_DGD1-P.5.03.2.2020-09-08 Proj_DGD1-DLST.5.03.1.2020-09-05



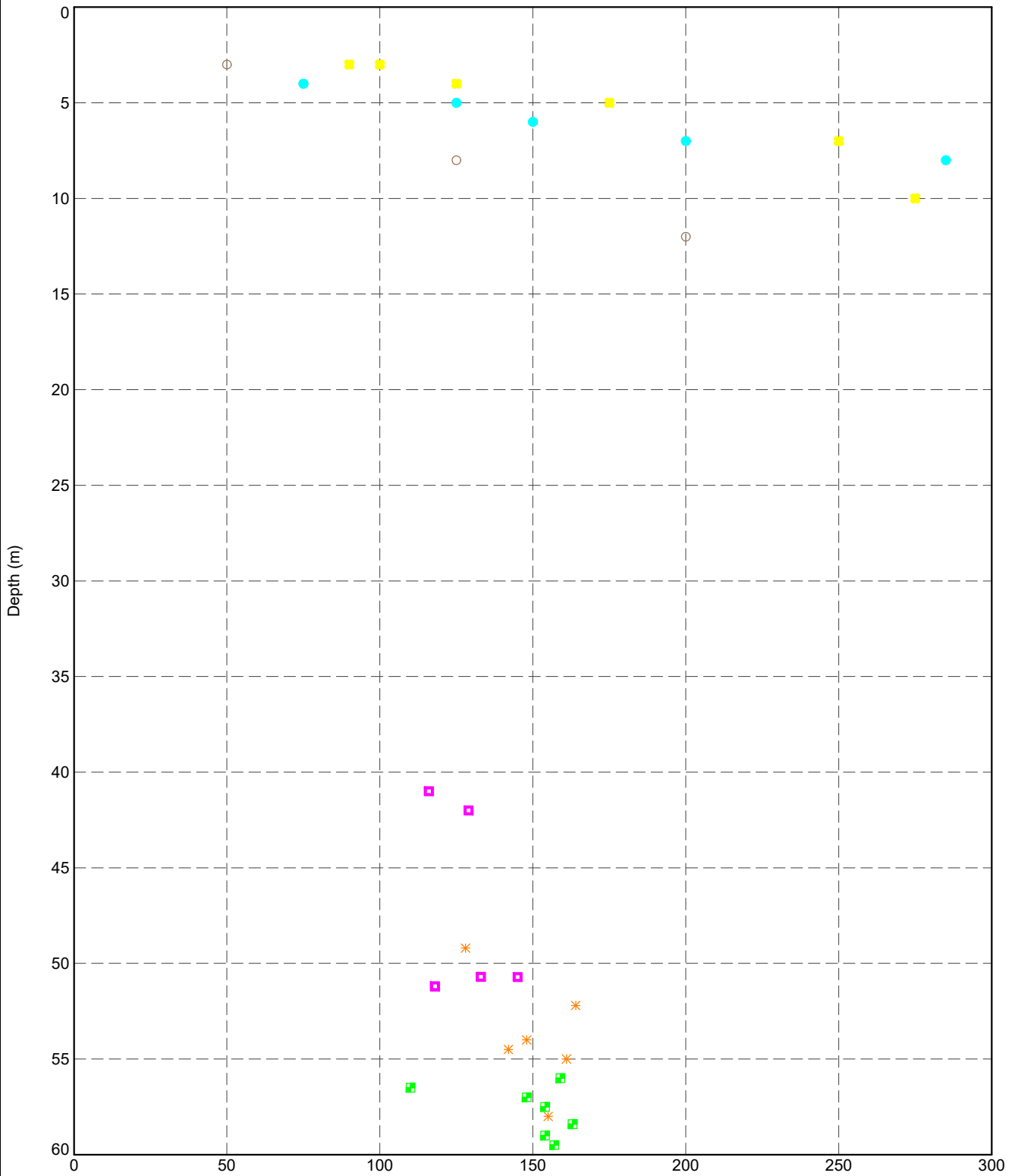
PointID Legend
 ■ ST/1090A
 ● ST/1090B/PRM
 ⊕ ST/1149A
 ✕ ST/1162A/PZW



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Uniaxial Compressive Strength vs. Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	258

DGD1-P.5.03.1.LIB.GLB.Graph A.L.R.UCS.VS.DEPTH BY UNIT DGD1-P.5.03.2.GPJ <<DrawingFile>> 9/9/2020 16:53 10.01.00.11 Datgel Lab and In Situ Test - DGD | Lib: DGD1-P.5.03.2.2020-09-08 Proj: DGD1-DLST.5.03.1.2020-09-05



Geology Unit Legend

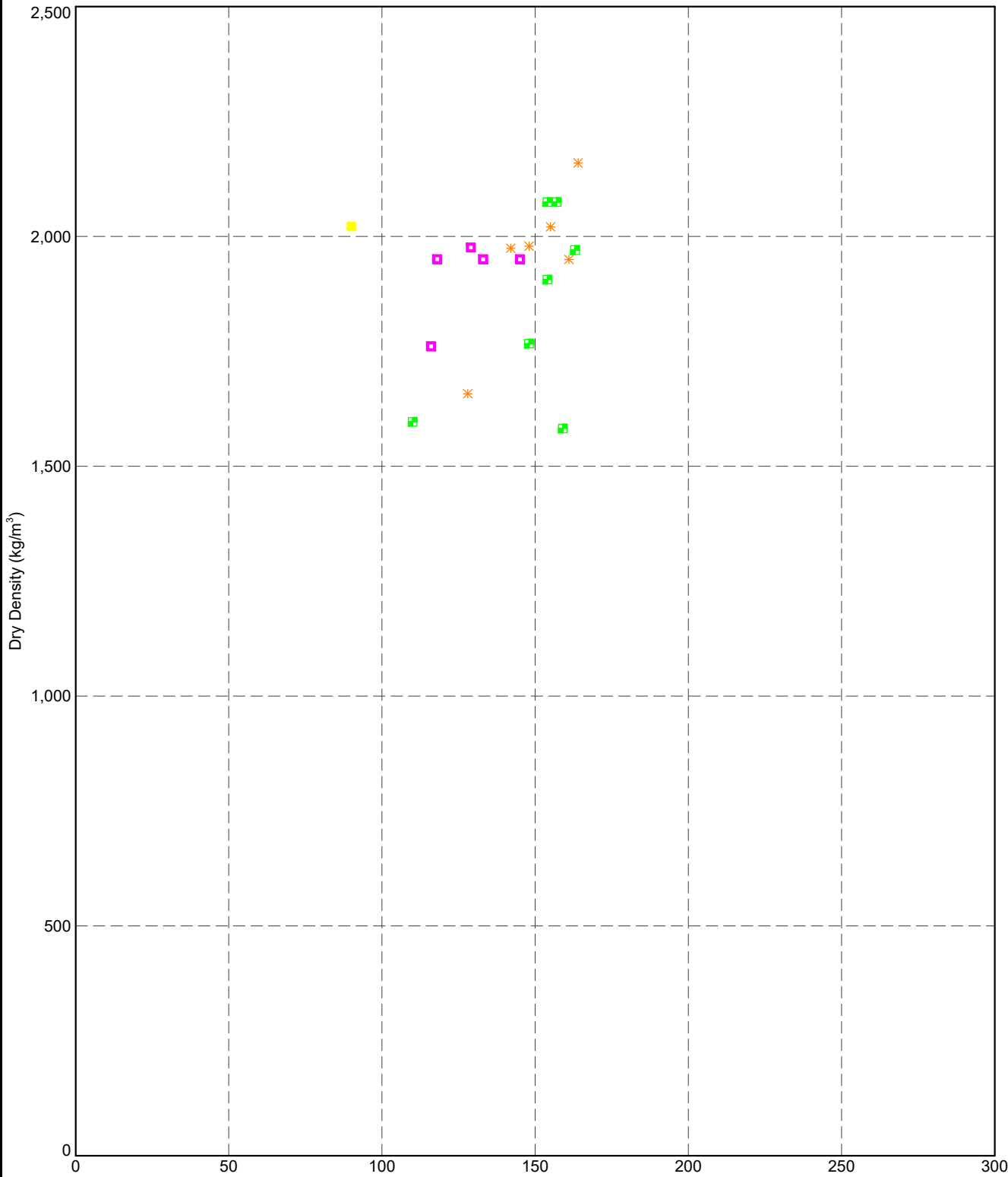
- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- M - Marine Clay
- △ O(A) - Old Alluvium (Unweathered)
- ⊗ O(B) - Old Alluvium (Partially weathered)
- G(VI) - Granite (rocks & associated soils) Residua...
- * G(IV) - Granite (rocks & associated soils) Highly ...
- G(III) - Granite (rocks & associated soils) Modera...
- G(II) - Granite (rocks & associated soils) Slightl...



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Uniaxial Compressive Strength vs. Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	259

DGDTP.5.03.1.DATGEL.A.L.R.UCS VS DRY DENSITY BY UNIT DGDTP.5.03.2.GPJ <<DrawingFile>> 9/9/2020 16:53 10.01.00.11 Datgel.Lab.and Its Site Tool - DGD | Lib: DGDTP.5.03.2.2020-09-08 Proj: DGDTP-DLST.5.03.1.2020-09-05



Geology Unit Legend

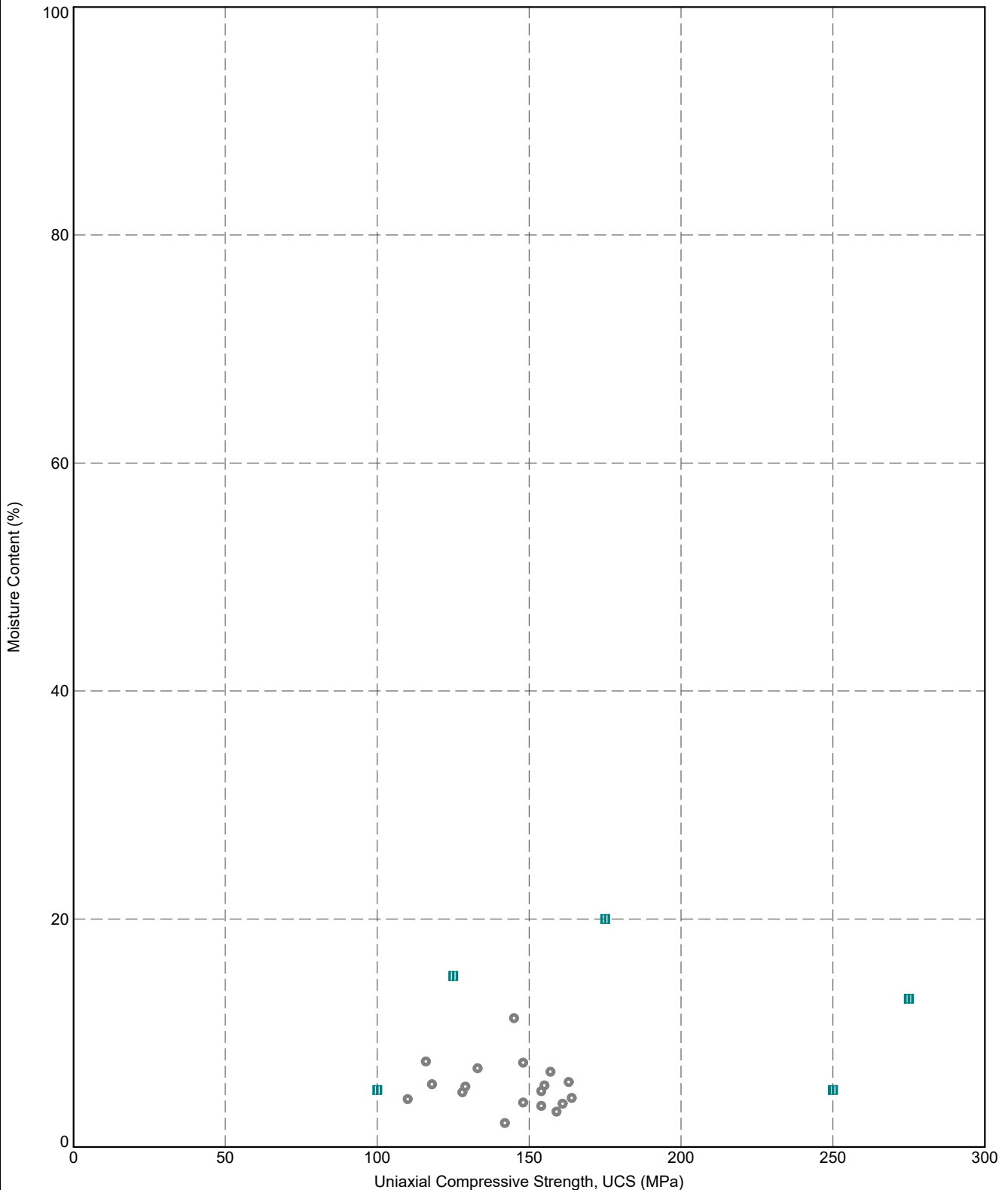
- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- M - Marine Clay
- △ O(A) - Old Alluvium (Unweathered)
- ⊗ O(B) - Old Alluvium (Partially weathered)
- G(VI) - Granite (rocks & associated soils) Residua...
- ✱ G(IV) - Granite (rocks & associated soils) Highly ...
- G(III) - Granite (rocks & associated soils) Modera...
- G(II) - Granite (rocks & associated soils) Slightl...



TITLE
Datgel
Engineer 1
Somewhere, World
Construction Project
UCS vs. Dry Density

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	261

DGD1-P.5.03.2.LIB.GLB_Graph_A.L.R.UCS vs MOISTURE CONTENT BY PTID_DGD1-P.5.03.2.GPJ --DrawingFile-- 9/9/2020 16:53 10.01.0011 Datgel Lab used in S/NUT Tool - DGD1 Lib - DGD1-P.5.03.2.2020-09-09 Ph1_DGD1-DUST 5.03.1_2020-09-05



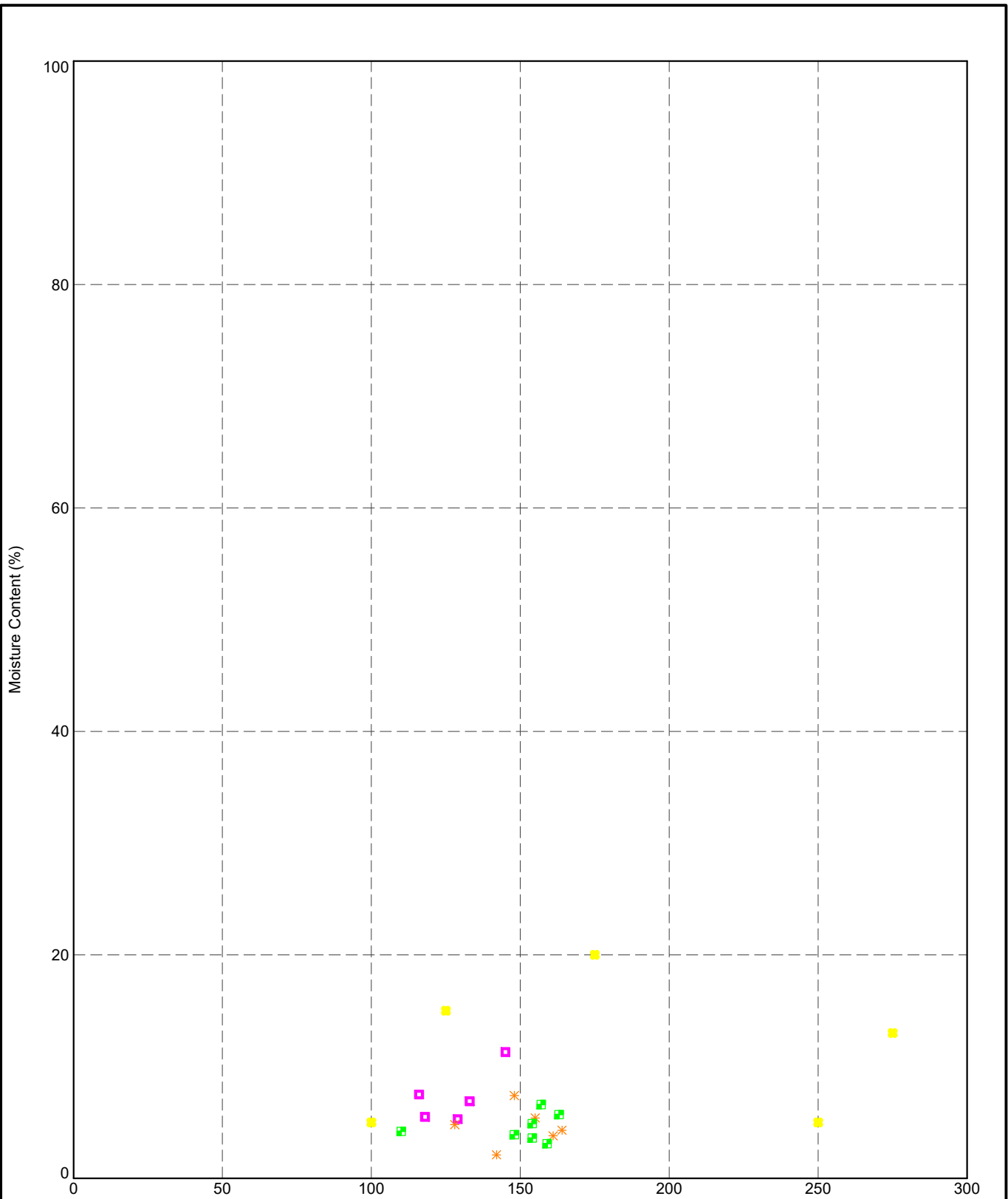
PointID Legend
■ ST/1090A
● ST/1090B/PRM



TITLE
Datgel
Engineer 1
Somewhere, World
Construction Project
UCS vs. Moisture Content

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	262

DGD1-P.5.03.1.GLB Graph A.L.R.UCS VS MOISTURE CONTENT BY UNIT DGD1-P.5.03.2.GPJ -> DrawingFile -> 9/9/2020 16:53 10.01.00.11 Datgel Lab and In Situ Tool - DGD [Lib: DGD1-P.5.03.2.2020-09-08 Proj: DGD1-01-ST.5.03.1.2020-09-05]



Geology Unit Legend

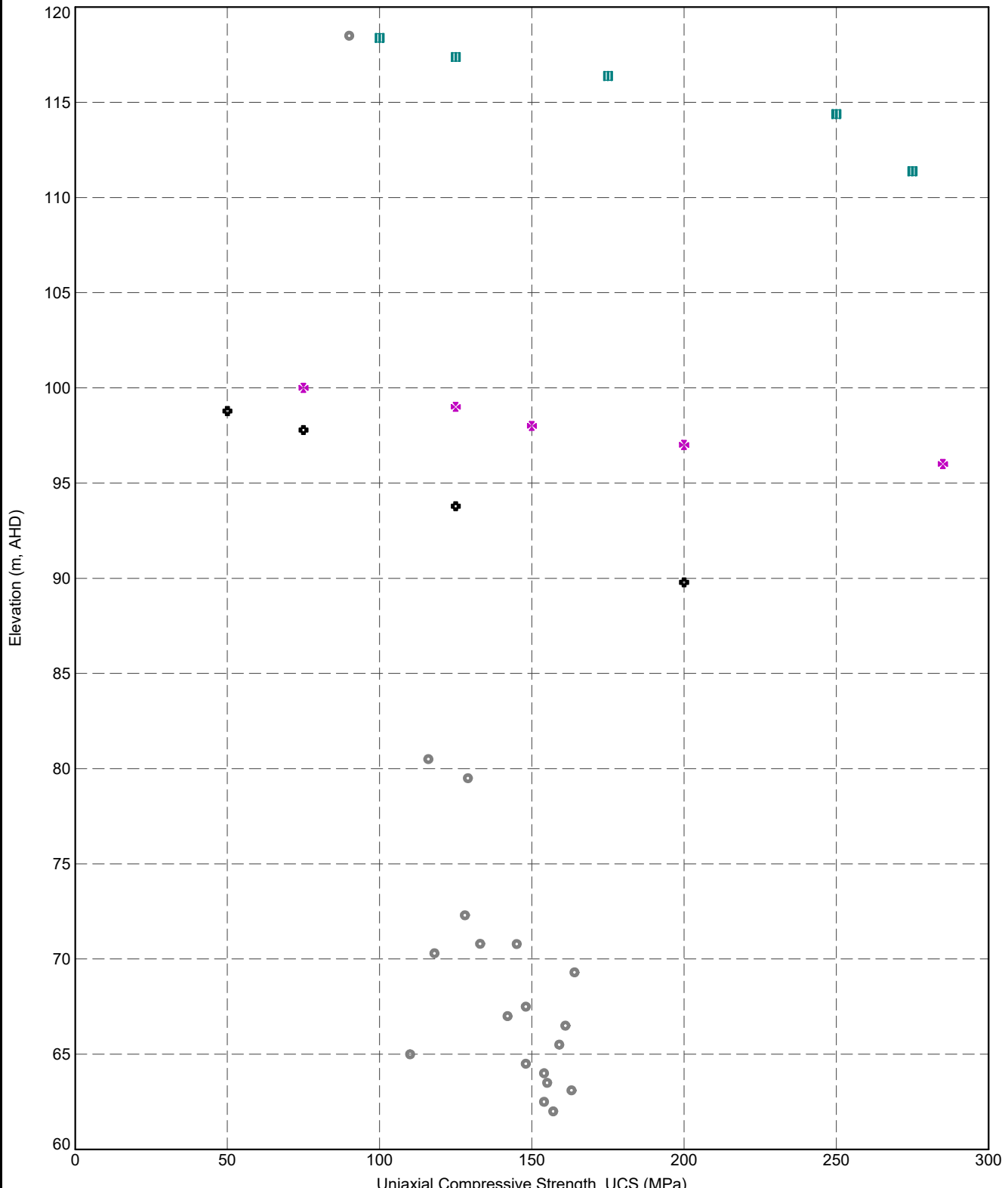
- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- M - Marine Clay
- △ O(A) - Old Alluvium (Unweathered)
- ⊗ O(B) - Old Alluvium (Partially weathered)
- G(VI) - Granite (rocks & associated soils) Residua...
- ✱ G(IV) - Granite (rocks & associated soils) Highly ...
- G(III) - Granite (rocks & associated soils) Modera...
- G(II) - Granite (rocks & associated soils) Slightl...



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 UCS vs. Moisture Content

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	263

DGD1-P.5.03.2.LIB.GLB Graph A.L.R.UCS.VS.RL BY PTID: DGD1-P.5.03.2.GPJ <-DrawingFile> 9/9/2020 16:53 10.01.00.11 Datgel Lab and In Situ Tool - DGD [Lib: DGD1-P.5.03.2.2020-09-09.Pjt; DGD1-CL-ST.5.03.1.2020-09-05



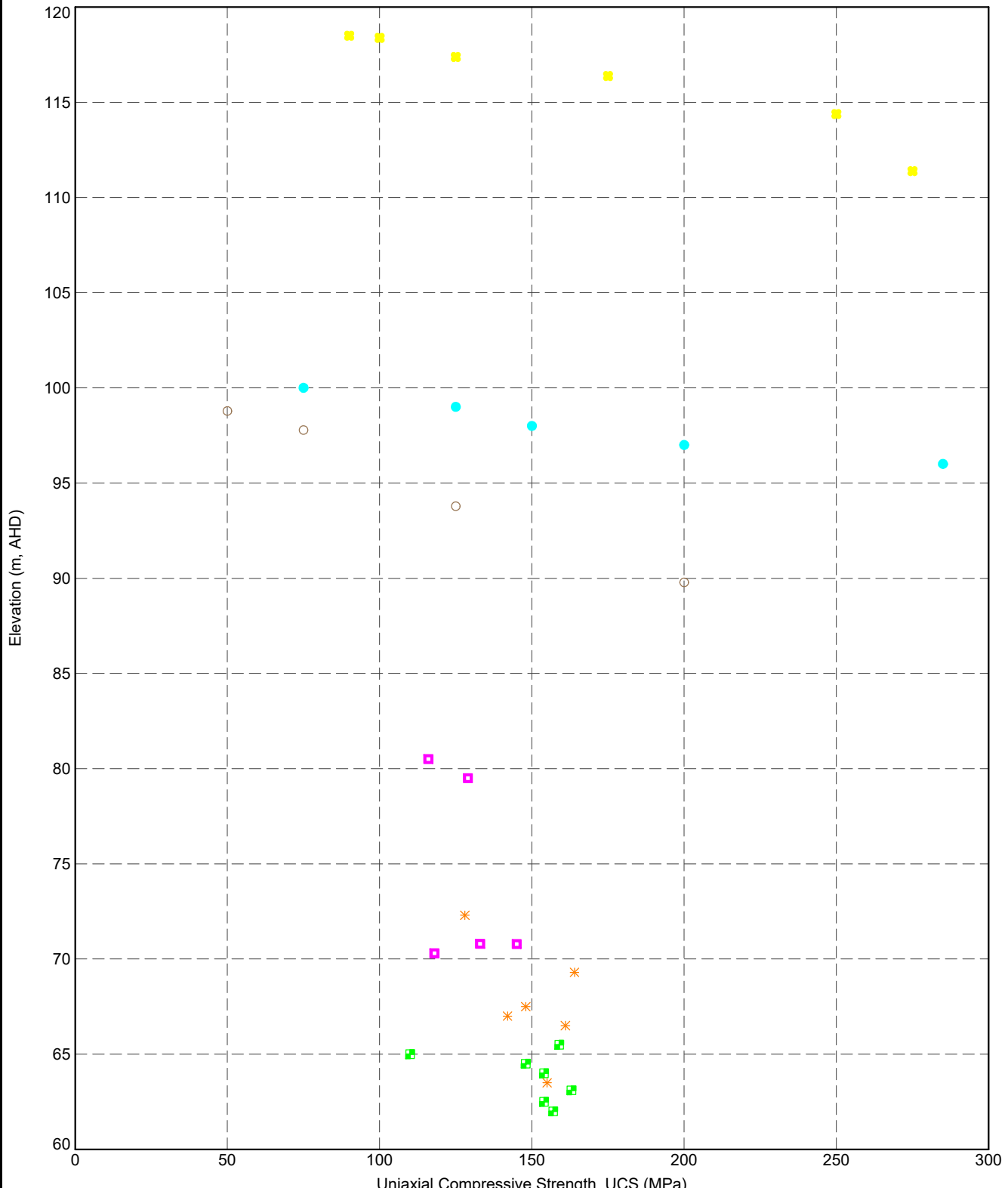
PointID Legend
 ■ ST/1090A
 ● ST/1090B/PRM
 ⊕ ST/1149A
 ✕ ST/1162A/PZW



TITLE
Datgel
Engineer 1
Somewhere, World
Construction Project
Uniaxial Compressive Strength vs. Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	264

DGDTP.5.03.1.LIB.GLB Graph A.L.I.R.UCS.VS.RL BY UNIT DGDTP.5.03.2.GPJ --DrawingFile--> 9/9/2020 16:54 10.01.0011 Datgel Lab and In Situ Tool - DGD [Lib: DGDTP.5.03.2 2020-09-08 PJ: DGDTP.DIST 5.03.1 2020-09-05]



Geology Unit Legend

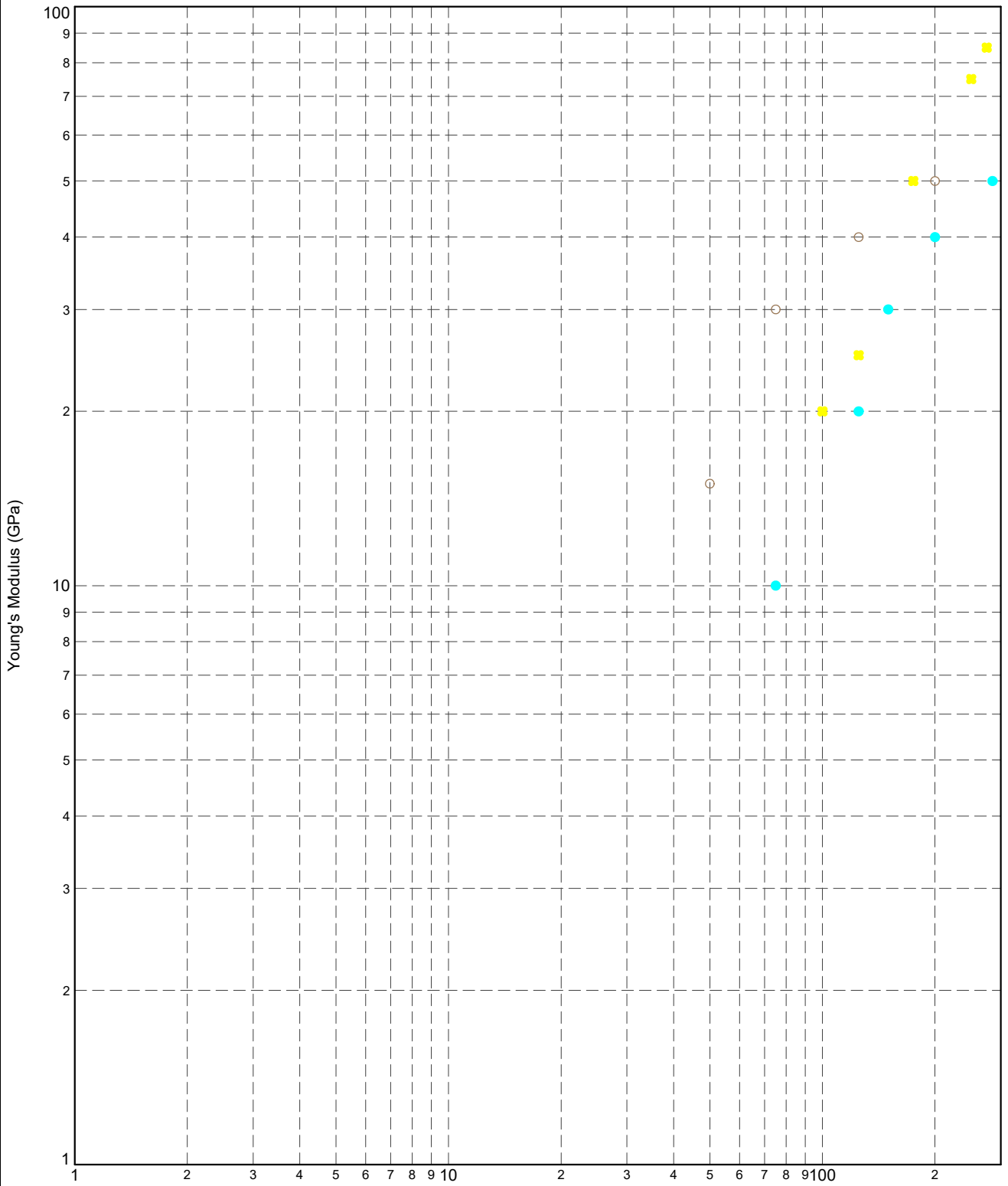
- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- M - Marine Clay
- △ O(A) - Old Alluvium (Unweathered)
- ⊗ O(B) - Old Alluvium (Partially weathered)
- G(VI) - Granite (rocks & associated soils) Residua...
- * G(IV) - Granite (rocks & associated soils) Highly ...
- G(III) - Granite (rocks & associated soils) Modera...
- G(II) - Granite (rocks & associated soils) Slightl...



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
Uniaxial Compressive Strength vs. Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	265

DGDTP.5.03.1.GLB Graph A.L.R.UCS vs YOUNGS MODULUS BY UNIT DGDTP.5.03.2.GPJ <<DrawingFile>> 9/9/2020 16:54 10.01.00.11 DatgelLab.mxd In Situ Tool - DGD Lib: DGDTP.5.03.2.2020.09.08 Proj: DGDTP-DLST.5.03.1.2020.09.05



Geology Unit Legend

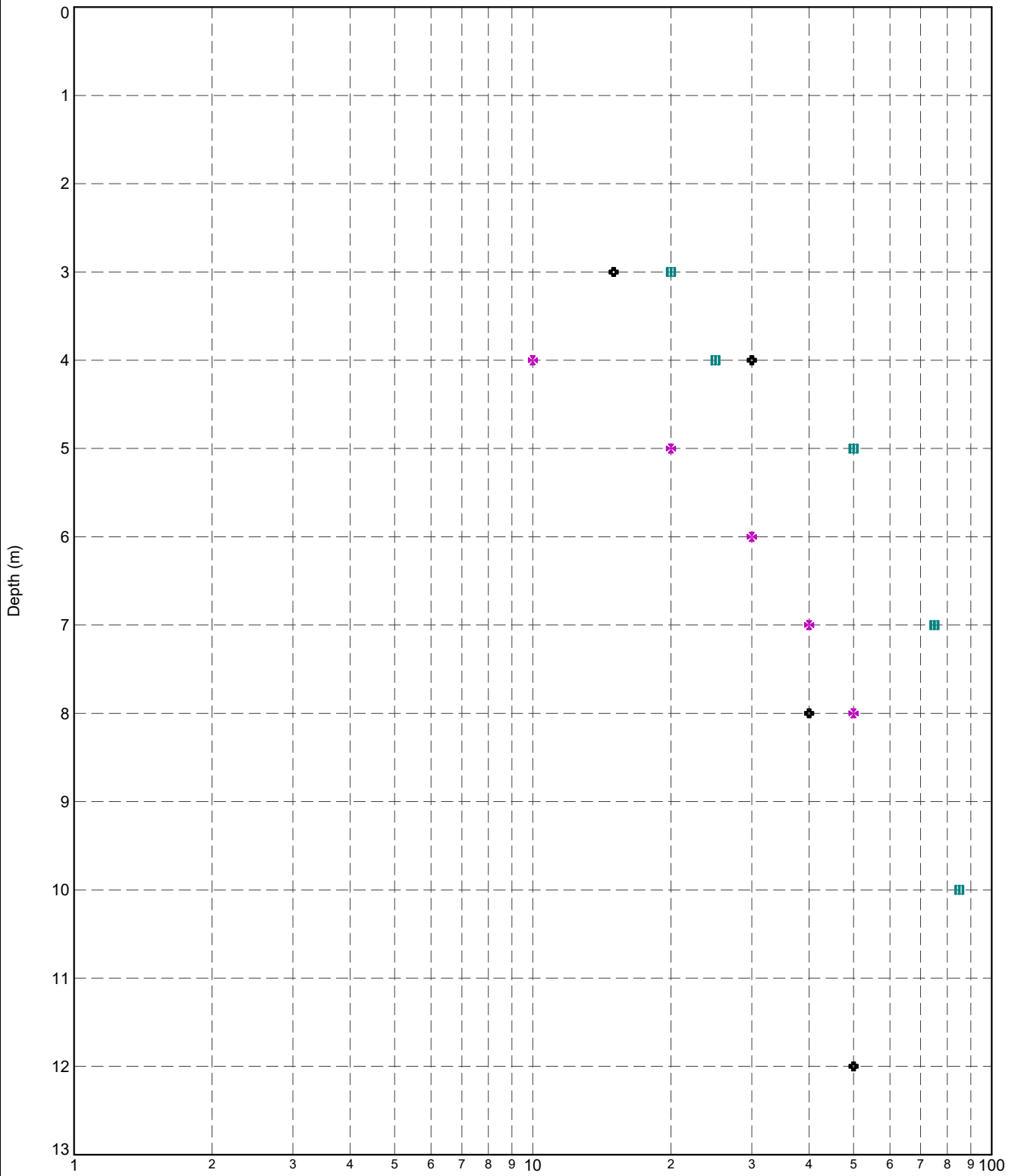
- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- M - Marine Clay
- △ O(A) - Old Alluvium (Unweathered)
- ⊗ O(B) - Old Alluvium (Partially weathered)
- G(VI) - Granite (rocks & associated soils) Residua...
- ✱ G(IV) - Granite (rocks & associated soils) Highly ...
- G(III) - Granite (rocks & associated soils) Modera...
- G(II) - Granite (rocks & associated soils) Slightl...



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 UCS vs. Young Modulus

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	267

D:\DT-F-5.03.2\LIB.GLB Graph A.L.R\YOUNGS MODULUS VS DEPTH BY P.TID D\DT-F-5.03.2\2020-09-08\Fig1.DSGT-DLST 5.03.1 2020-09-08



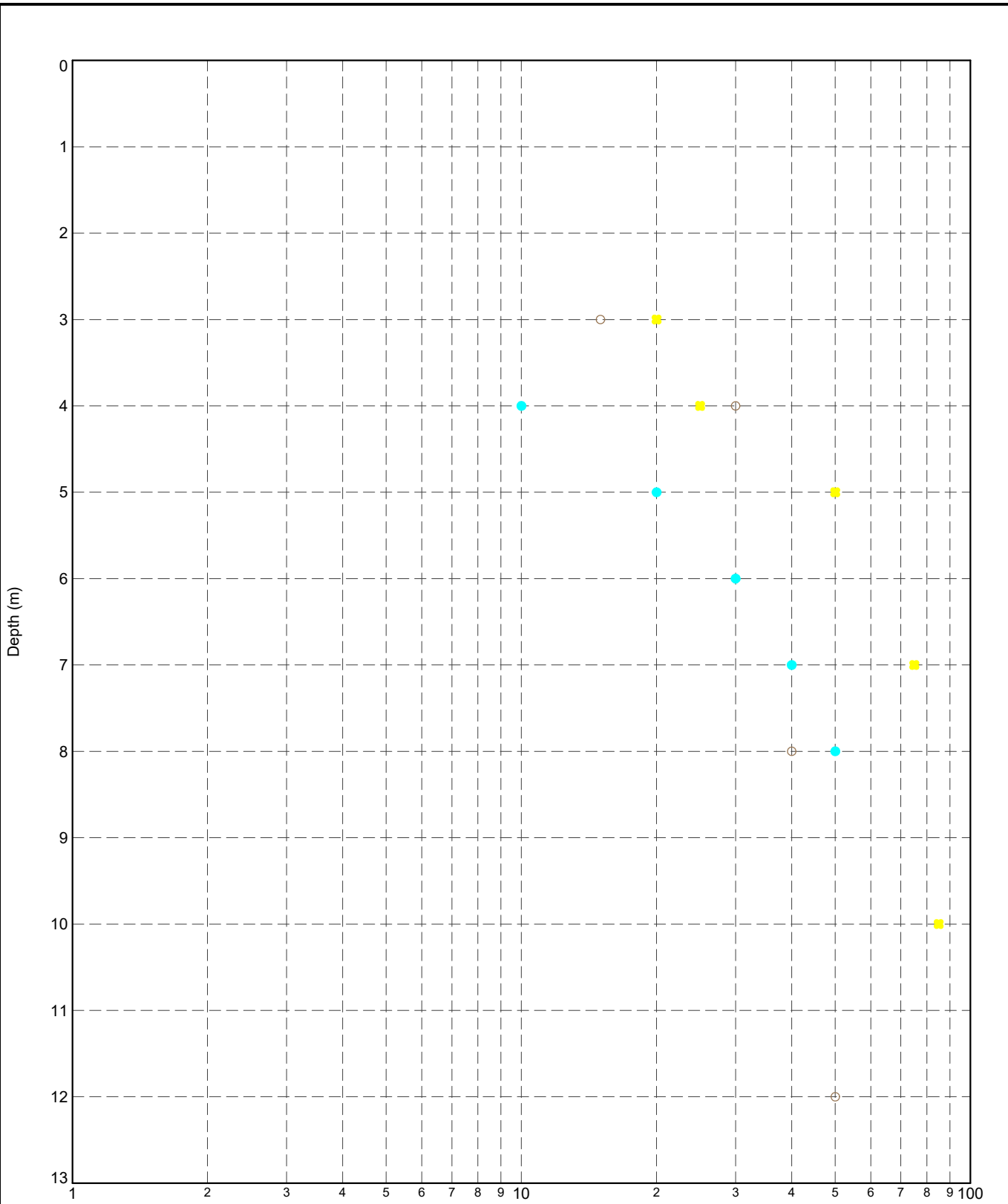
PointID Legend
■ ST/1090A
◆ ST/1149A
✱ ST/1162A/PZW



TITLE
Datgel
Engineer 1
Somewhere, World
Construction Project
Young's Modulus versus Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	268

DGD1-P.5.03.2.GLB Graph A.L.R.YOUNGS MODULUS VS DEPTH BY UNIT DGD1-P.5.03.2.GPJ <DrawingFiles> 9/9/2020 16:54 10.01.00.11 Datgel Lab and In Situ Tool - DGD | Lib: DGD1-P.5.03.2.2020-09-08 Pj: DGD1-DLS1.5.03.1.2020-09-05



Geology Unit Legend

- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- M - Marine Clay
- △ O(A) - Old Alluvium (Unweathered)
- ⊗ O(B) - Old Alluvium (Partially weathered)
- G(VI) - Granite (rocks & associated soils) Residua...
- ✱ G(IV) - Granite (rocks & associated soils) Highly ...
- G(III) - Granite (rocks & associated soils) Modera...
- G(II) - Granite (rocks & associated soils) Slightl...

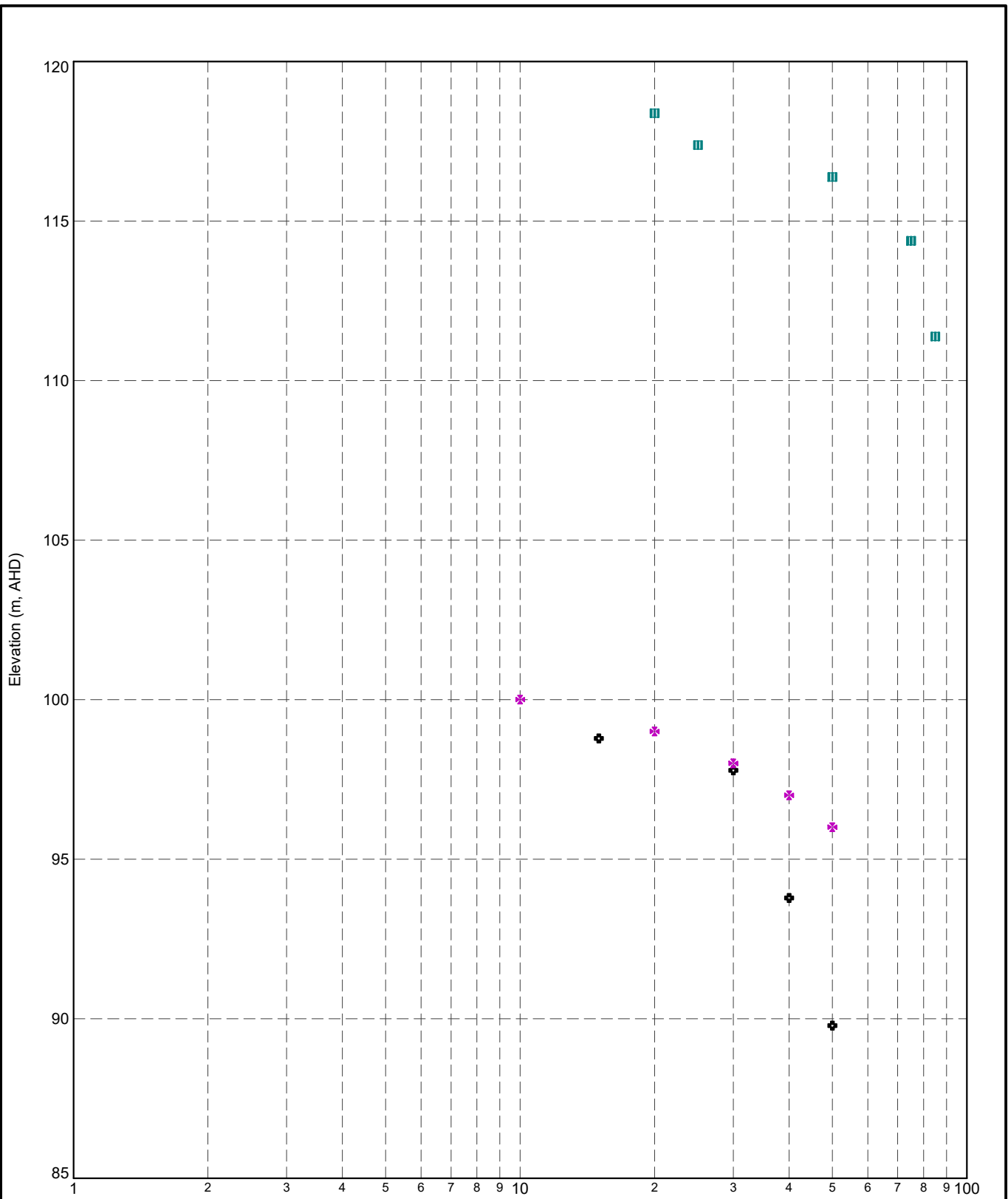


TITLE

Datgel
Engineer 1
Somewhere, World
Construction Project
Young's Modulus versus Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	269

DGDTP.5.03.2.LIB.GLB Graph A.L.R.YOUNGS MODULUS VS RL BY PTID DGDTP.5.03.2.GPJ --DrawingFile-- 9/9/2020 16:54 10.01.00.11 Datgel Lab and In Situ Tool - DGD Lib - DGDTP.5.03.2.2020-09-09.Pjt.DGDTP-01.LST.5.03.1.2020-09-05



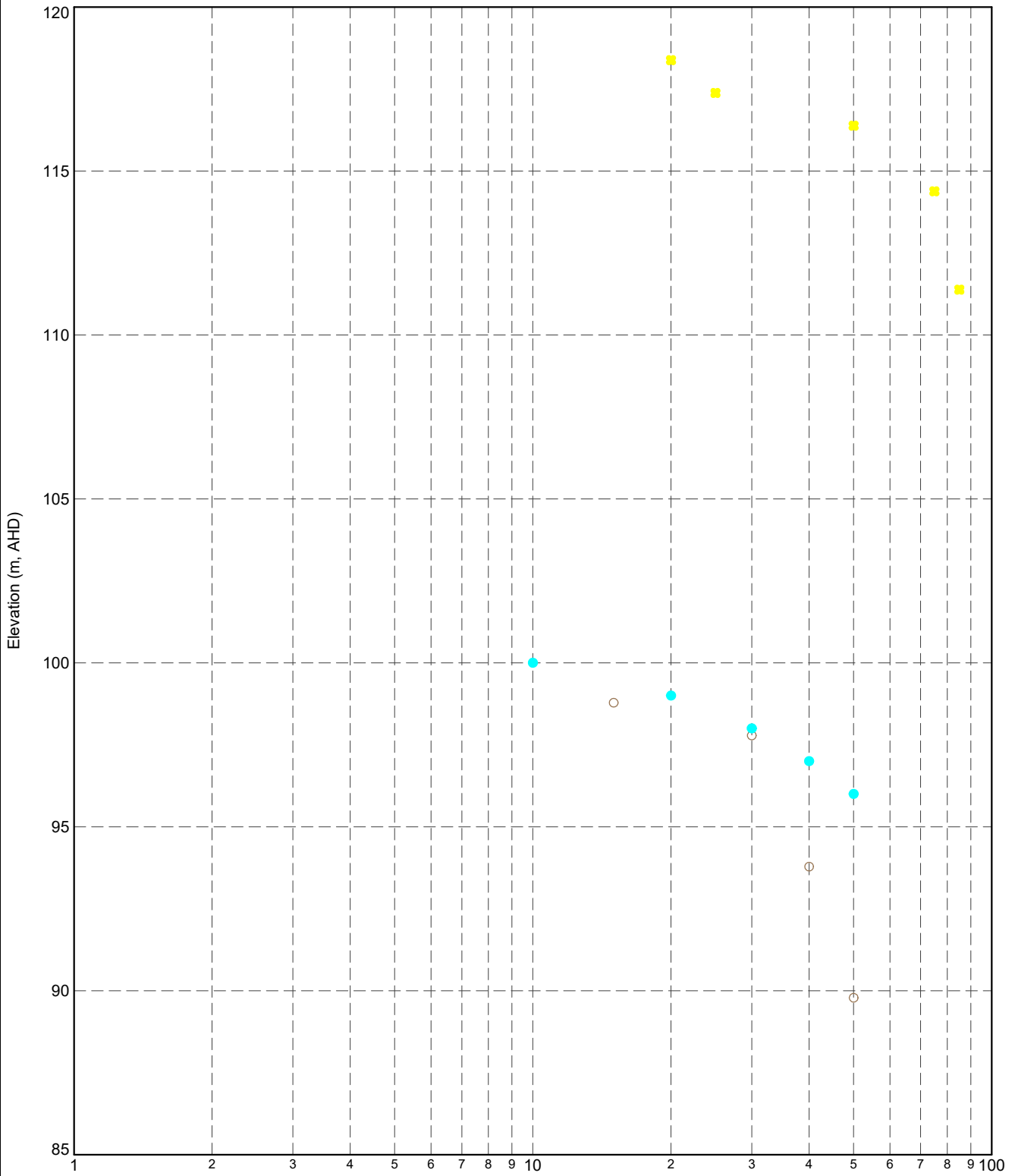
PointID Legend
■ ST/1090A
+ ST/1149A
* ST/1162A/PZW



TITLE
Datgel
Engineer 1
Somewhere, World
Construction Project
Young's Modulus versus Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	270

DGDTP.5.03.1.GLB.GPJ - Graph A.L.R.YOUNGS MODULUS VS RL BY UNIT DGDTP.5.03.2.GPJ - Drawing File -> 9/9/2020 16:54 10.01.00.11 Datgel Lab and in Situ Tool - DGD - DGDTP.5.03.2.2020.09.09.Pjt.DGDTP.5.03.1.2020.09.05



Geology Unit Legend

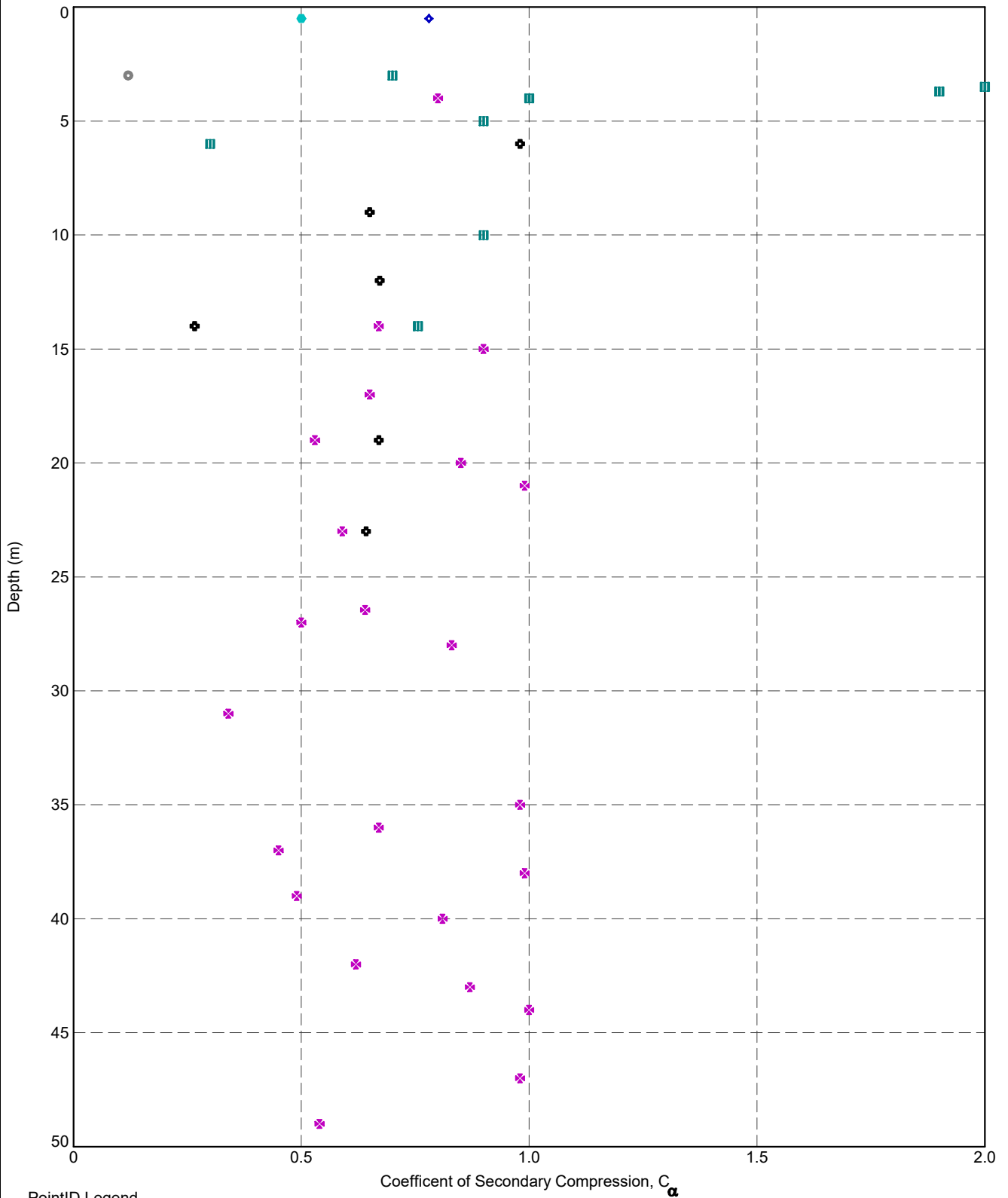
- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- M - Marine Clay
- △ O(A) - Old Alluvium (Unweathered)
- ⊗ O(B) - Old Alluvium (Partially weathered)
- G(VI) - Granite (rocks & associated soils) Residua...
- * G(IV) - Granite (rocks & associated soils) Highly ...
- G(III) - Granite (rocks & associated soils) Modera...
- G(II) - Granite (rocks & associated soils) Slightl...




TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Young's Modulus versus Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	271

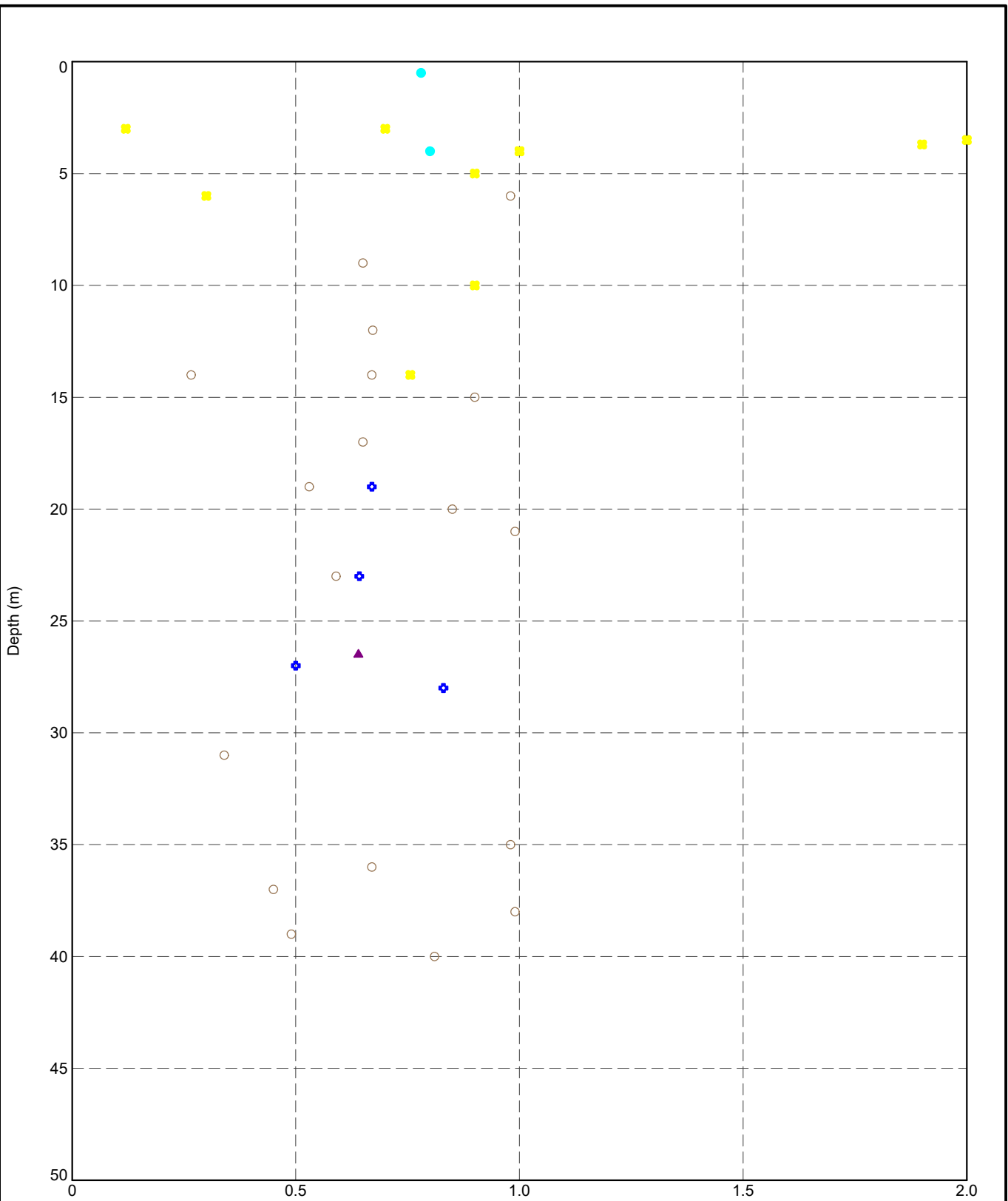
DGD1-P.5.03.2.LIB.GLB Graph A.L.S.ID.CONSOLE.CA.VS.DEPTH.BY.PTID.DGD1-P.5.03.2.GPJ <-DrawingFiles> 9/9/2020 16:54 10.01.00.11 Datgel Lab and In Situ Tool - DGD [Lib: DGD1-P.5.03.2.2020-09-08.Plt; DGD1-DLST.5.03.1.2020-09-05



- PointID Legend
- ST/1090A
 - ST/1090B/PRM
 - ⊕ ST/1149A
 - ◆ ST/1149B/VST_PZW
 - ⊗ ST/1162A/PZW
 - ST/1162B/VST_PZW

 Datgel DATA SOLUTIONS Geotechnics • Geoenvironment • Laboratory	TITLE Datgel Engineer 1 Somewhere, World Construction Project C_{α} from 1D Consolidation vs. Depth	DRAWN PMW	DATE 9/9/2020	
		CHECKED	DATE 9/9/2020	
		SCALE Not To Scale		A4
		PROJECT No 5.03.1	FIGURE No 272	

DGDTP.5.03.1.GLB Graph A.LS ID:CONSOL.CA.VS.DEPTH BY UNIT DGDTP.5.03.2.GPJ <-DrawingFile> 9/9/2020 16:54 10.01.00.11 Datgel Lab and In Situ Tool - DGD (Lib: DGDTP.5.03.2.2020-09-08 Proj: DGDTP.5.03.1.2020-09-05)



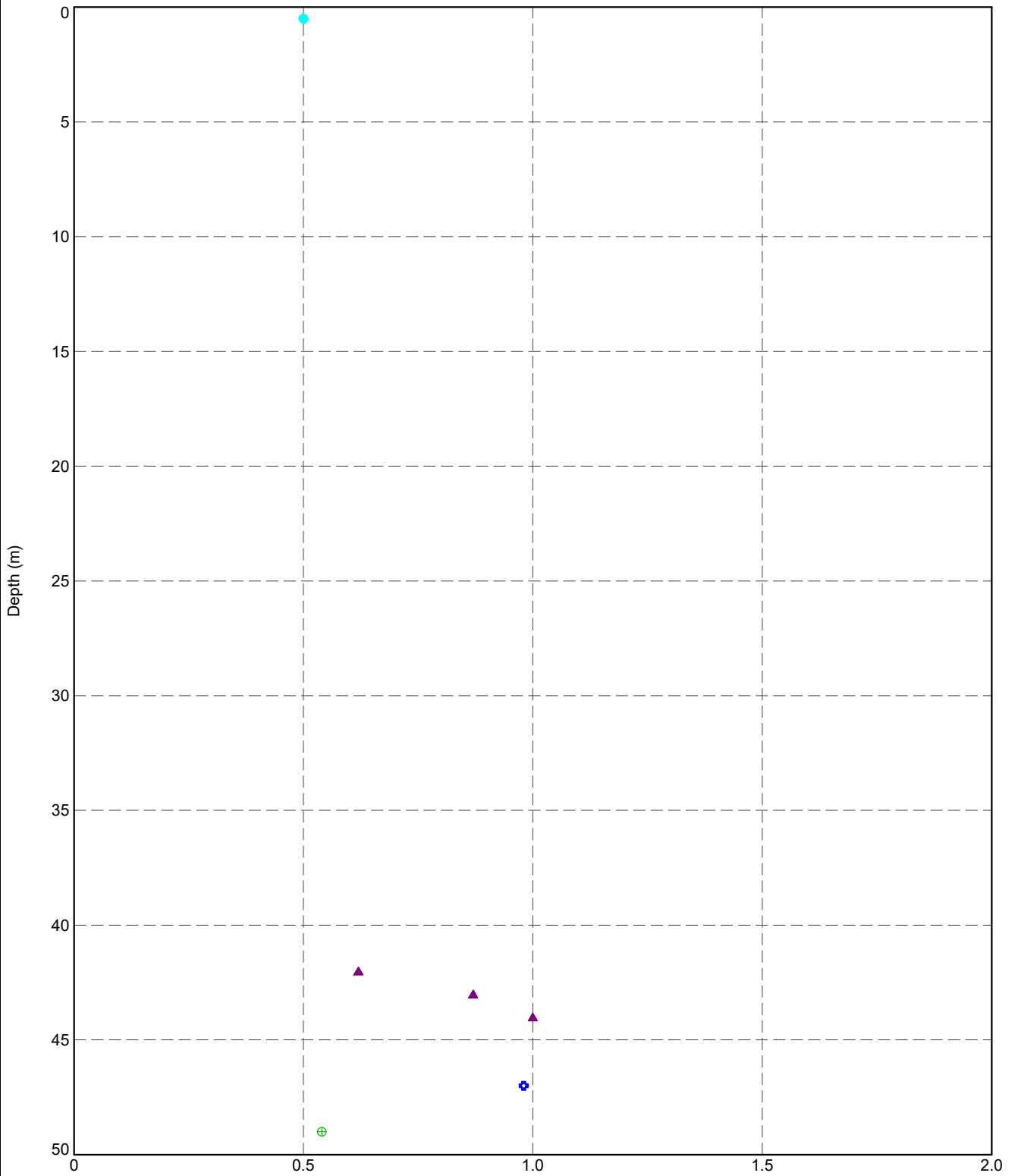
Geology Unit Legend

- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- ⊕ O(C) - Old Alluvium (Distinctly weathered)
- G(VI) - Granite (rocks & associated soils) Residua...

TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 C_s from 1D Consolidation vs. Depth


DRAWN PMW	DATE 9/9/2020
CHECKED	DATE 9/9/2020
SCALE Not To Scale	A4
PROJECT No 5.03.1	FIGURE No 273

D:\GDT-P-5.03.1\GUB-Graph-A-LS-ID-CONSOL-CAVS-DEPTH-BY-UNIT-DGDT-P-5.03.2.GPJ <-DrawingFile> 9/9/2020 16:54 10.01.00.11 Datgel Lab and In Situ Tool - DGD (Lib: DGD) P: 5.03.2.2020-09-08 Proj: DGD-T-DIST 5.03.1 2020-09-05

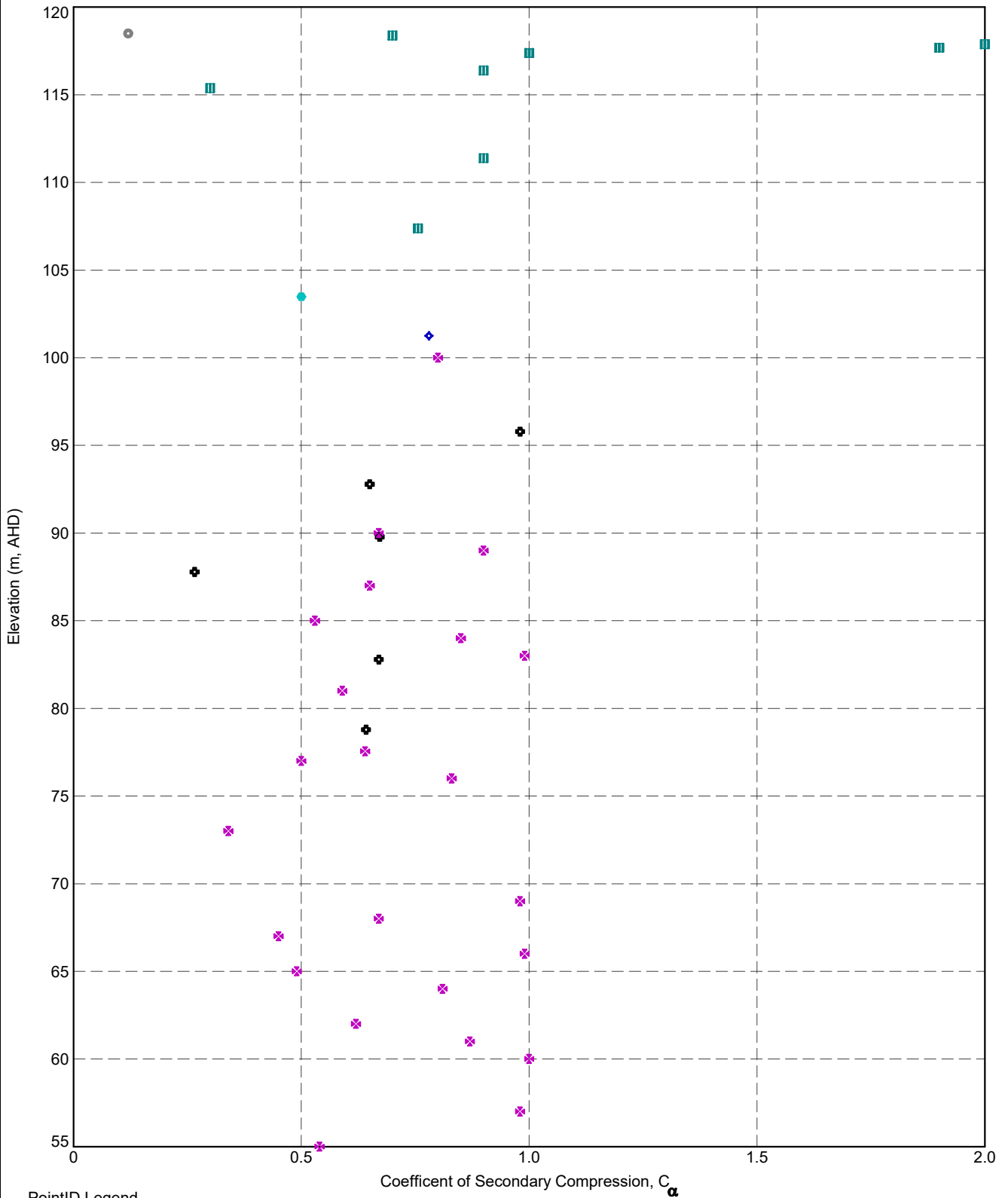


Geology Unit Legend

- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- ⊗ F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- ⊕ O(C) - Old Alluvium (Distinctly weathered)
- G(VI) - Granite (rocks & associated soils) Residua...

 Geotechnics • Geoenvironment • Laboratory	TITLE Datgel Engineer 1 Somewhere, World Construction Project C_{α} from 1D Consolidation vs. Depth	DRAWN	PMW	DATE	9/9/2020	
	CHECKED	SCALE	Not To Scale		A4	
	PROJECT No	5.03.1		FIGURE No	273	
	Somewhere, World Construction Project					

DGDTP.5.03.2.LIB.GLB_Graph_A.LS.ID.CONSOLE.CAVS.RLBY.PTID.DGDTP.5.03.2.GPJ <-DrawingFile> 9/9/2020 16:54 10.01.00.11 Datgel Lab and In Situ Tool_DGD | Lib: DGDTP.5.03.2.2020-09-08 Pj | DGDTP.DIST.5.03.1.2020-09-05



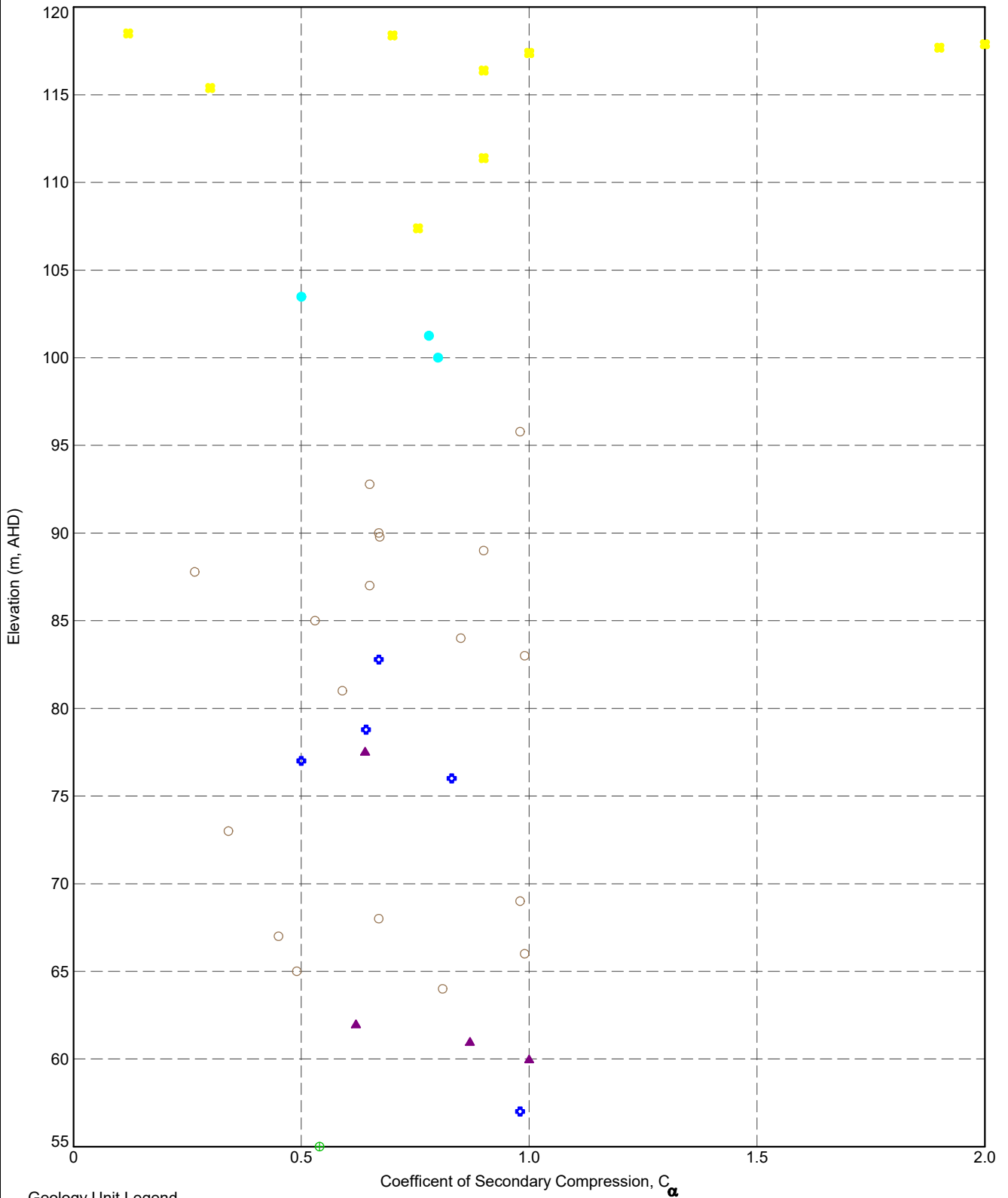
PointID Legend
 ■ ST/1090A
 ● ST/1090B/PRM
 ⊕ ST/1149A
 ◆ ST/1149B/VST_PZW
 ✕ ST/1162A/PZW
 ● ST/1162B/VST_PZW



TITLE
Datgel
Engineer 1
Somewhere, World
Construction Project
 C_{α} from 1D Consolidation vs. Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	274

DGD1-P.5.03.1-UB.GLB - Graph A.L.S ID:CONSOL.CAVS.RLBYUNIT.DGDT.P.5.03.2.GPJ - <<DrawingFile>> 9/9/2020 16:54 10.01.00.11 DatgelLab and H. Sulu Tool - DGD | Ub: DGD1-P.5.03.2.2020-08.P1; DGDT-DLST.5.03.1.2020-08-05



Geology Unit Legend

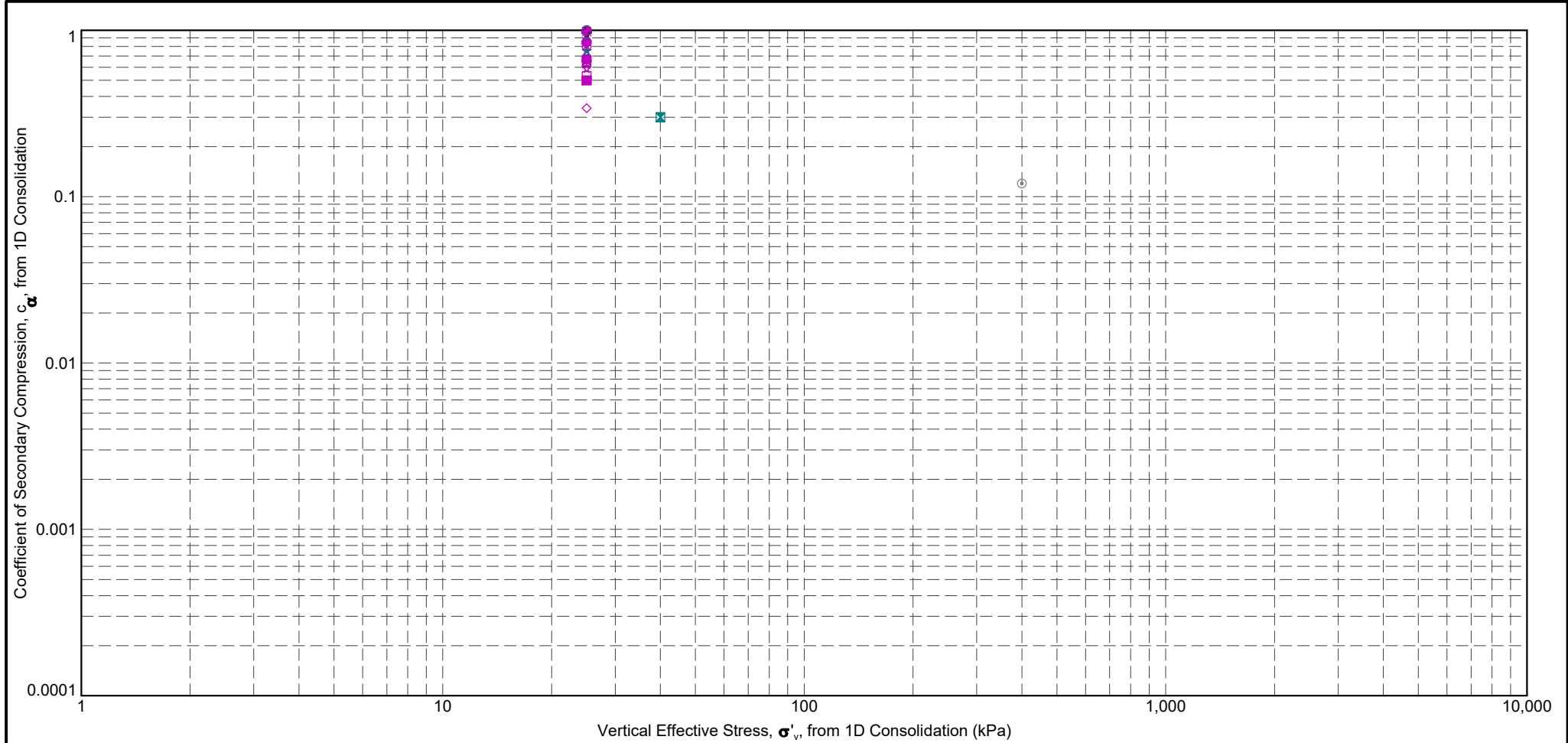
- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- ⊕ O(C) - Old Alluvium (Distinctly weathered)
- G(VI) - Granite (rocks & associated soils) Residua...



TITLE

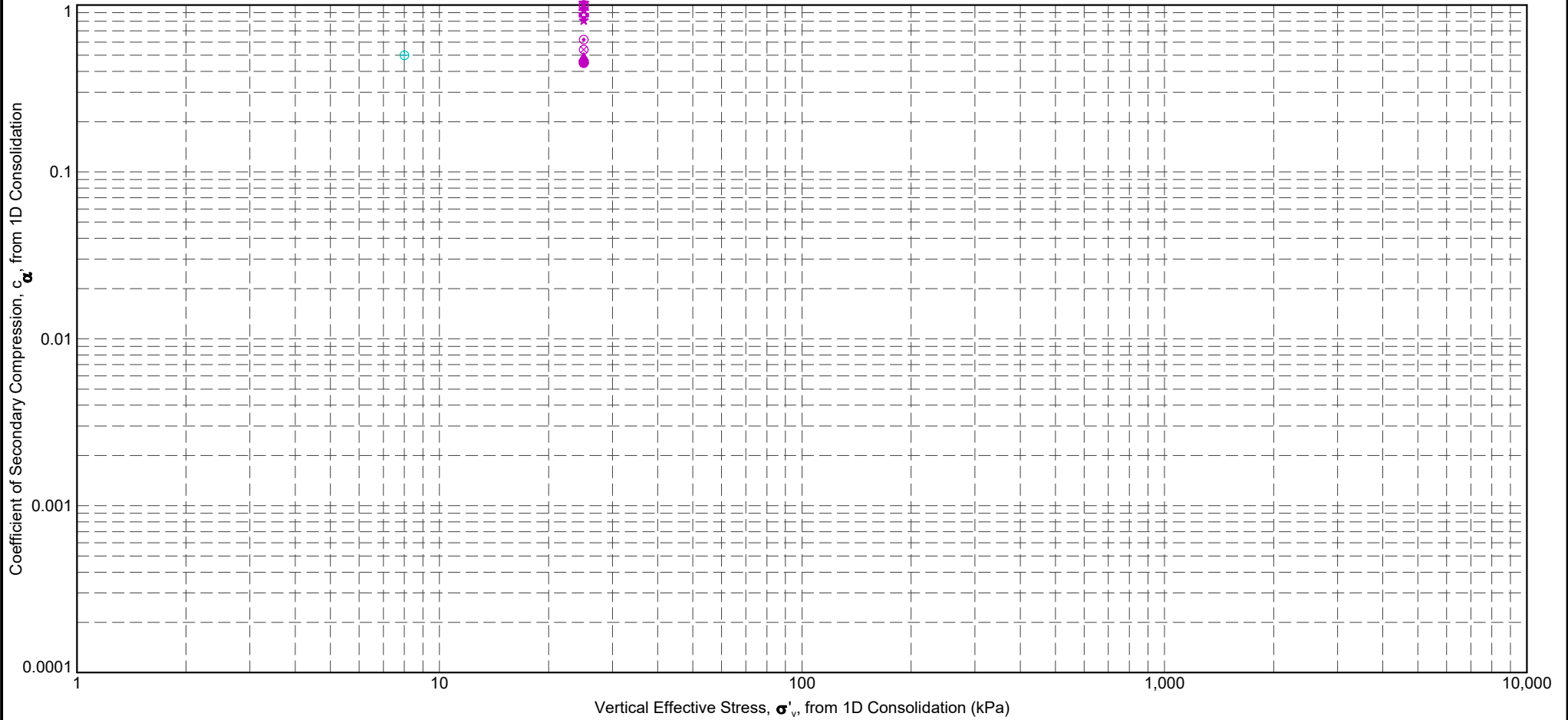
Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 C_{α} from 1D Consolidation vs. Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	275




- | | | | |
|-----------------------|------------------------|------------------------|------------------------|
| ● ST/1090A 4.00 m | ⊕ ST/1149A 6.00 m | □ ST/1162A/PZW 19.00 m | ■ ST/1162A/PZW 27.00 m |
| ⊠ ST/1090A 6.00 m | ○ ST/1149A 19.00 m | ⊙ ST/1162A/PZW 20.00 m | ◆ ST/1162A/PZW 28.00 m |
| ▲ ST/1090A 10.00 m | △ ST/1149A 23.00 m | ⊚ ST/1162A/PZW 21.00 m | ◇ ST/1162A/PZW 31.00 m |
| ★ ST/1090A 14.00 m | ⊗ ST/1162A/PZW 4.00 m | ☆ ST/1162A/PZW 23.00 m | ✕ ST/1162A/PZW 35.00 m |
| ⊙ ST/1090B/PRM 3.00 m | ⊕ ST/1162A/PZW 17.00 m | ⊗ ST/1162A/PZW 26.45 m | ⊚ ST/1162A/PZW 36.00 m |

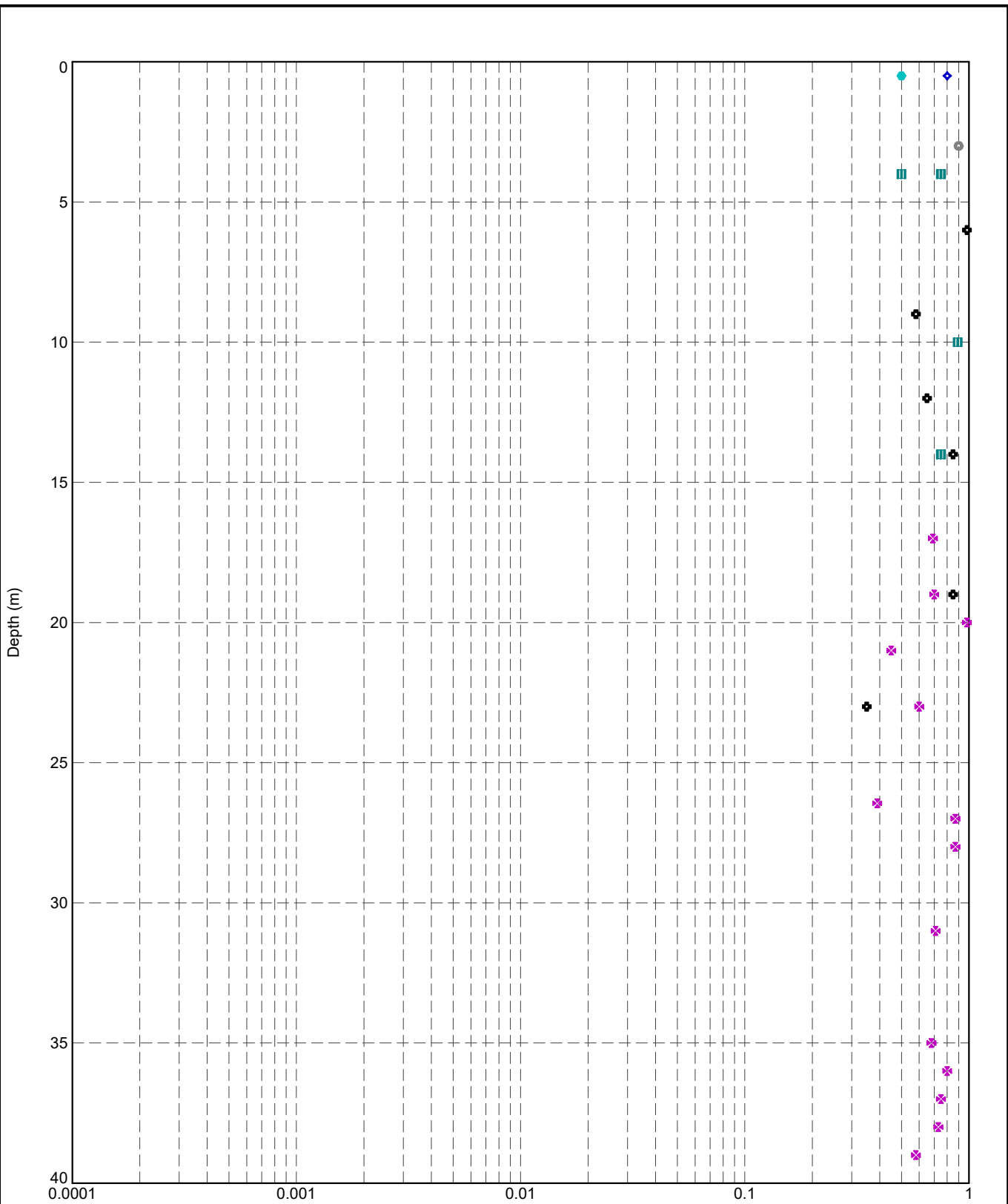
	TITLE	Datgel Engineer 1 Somewhere, World Construction Project c_α vs. σ'_v		DRAWN	PMW	DATE	9/9/2020
				CHECKED		DATE	9/9/2020
				SCALE	Not To Scale		A4
				PROJECT No	5.03.1	FIGURE No	276



- ST/1162A/PZW 37.00 m
- ST/1162A/PZW 38.00 m
- ▲ ST/1162A/PZW 39.00 m
- ★ ST/1162A/PZW 40.00 m
- ST/1162A/PZW 42.00 m
- ✦ ST/1162A/PZW 43.00 m
- ST/1162A/PZW 44.00 m
- △ ST/1162A/PZW 47.00 m
- ⊗ ST/1162A/PZW 49.00 m
- ⊕ ST/1162B/VST_PZW 0.00 m

	TITLE		DRAWN	DATE
	Datgel Engineer 1 Somewhere, World Construction Project		PMW	9/9/2020
	c_α vs. σ'_v		CHECKED	DATE
			SCALE	FIGURE No
		Not To Scale	A4	276
		PROJECT No	5.03.1	

DGDTP-5.03.2.LIB.GLB_Graph_A.L.S.ID.CONSOLE.CAE.VS.DEPTH.BY.PTID.DGDTP-5.03.2.2020-09-08.Fly.DGDTP-5.03.2.2020-09-08.Fly.DGDTP-5.03.1.2020-09-05



- PointID Legend
- ST/1090A
 - ST/1090B/PRM
 - ⊕ ST/1149A
 - ◆ ST/1149B/VST_PZW
 - ⊗ ST/1162A/PZW
 - ST/1162B/VST_PZW



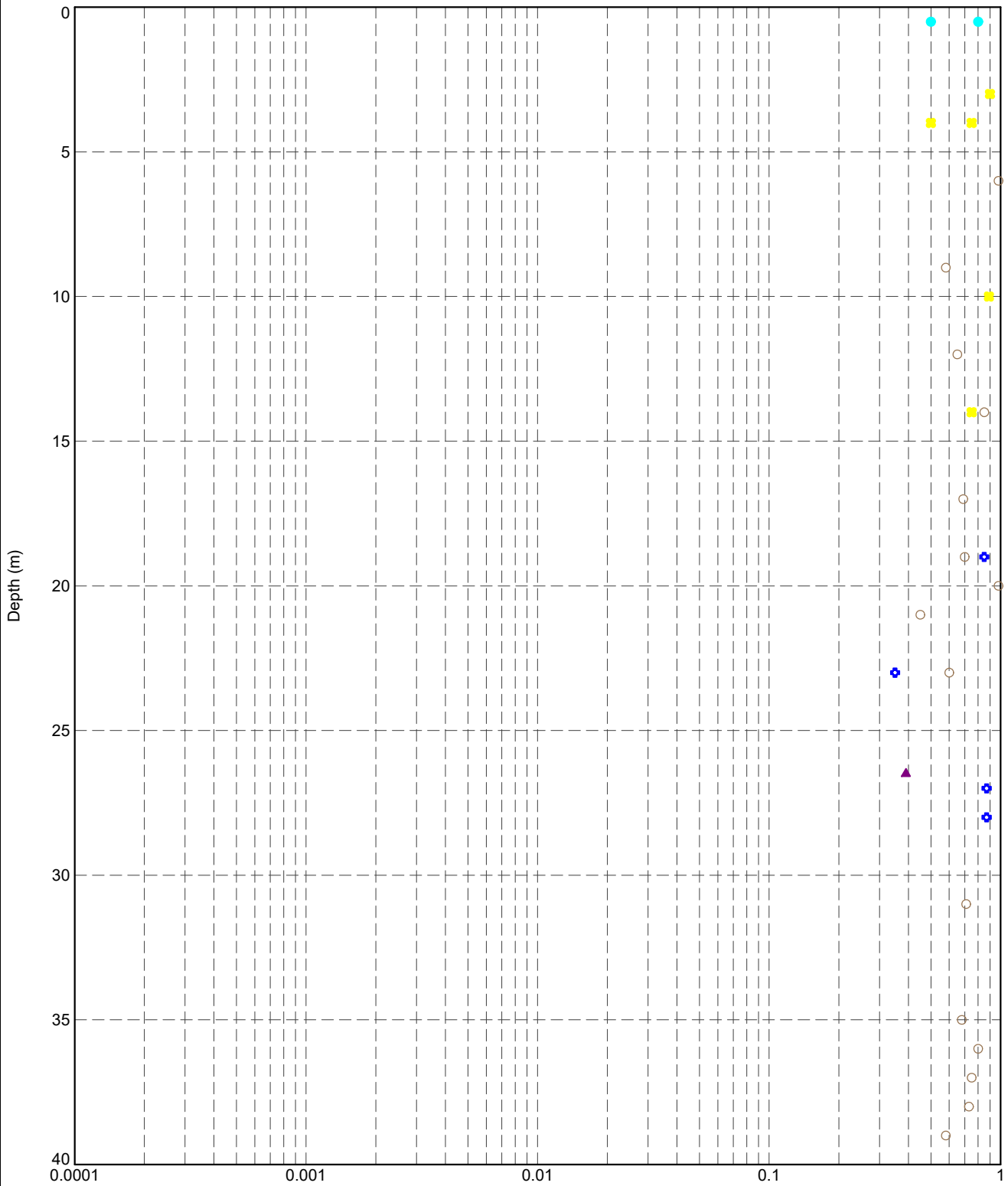
TITLE

Datgel
Engineer 1
Somewhere, World
Construction Project

Secondary Compression Index, C_{ae} vs. Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	277

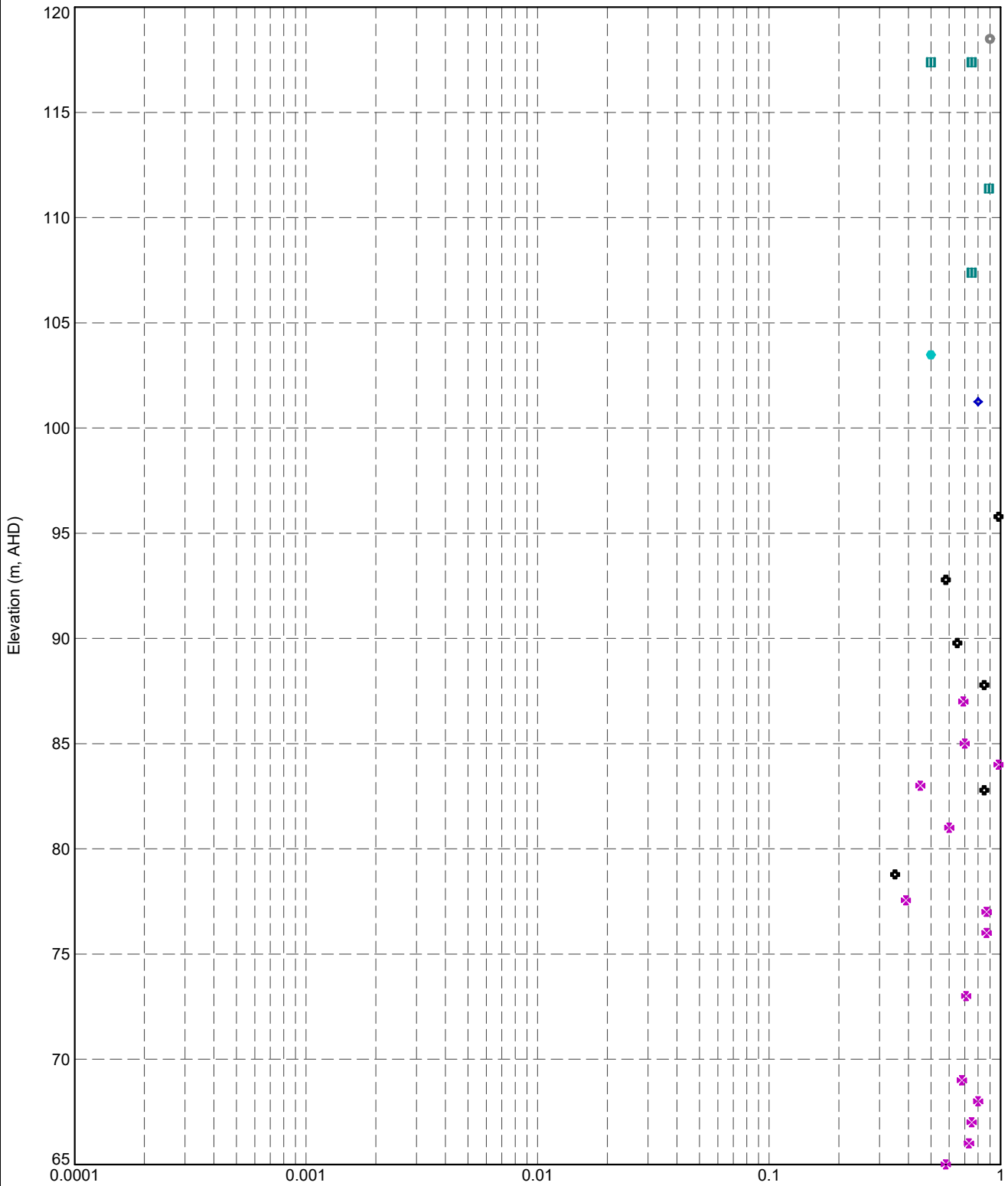
DGD1-P-5.03.1.GLB.GLB Graph A.L.S ID:CONSOL CAE VS DEPTH BY UNIT DGD1-P-5.03.2.GPJ <<DrawingFiles>> 9/9/2020 16:54 10.01.00.11 Datgel Lab and In Situ Tool - DGD | Lib. DGD1-P-5.03.2.2020-09-08 Pj; DGD1-DIST 5.03.1.2020-09-05



- Geology Unit Legend**
- FILL - BACKFILL
 - ▲ E - Estuarine (Transitional)
 - ◆ F2 - Alluvial soil (Non-granular)
 - M - Marine Clay
 - ⊕ O(C) - Old Alluvium (Distinctly weathered)
 - G(VI) - Granite (rocks & associated soils) Residua...

	<p>TITLE</p> <p style="text-align: center;">Datgel Engineer 1 Somewhere, World Construction Project</p> <p>Secondary Compression Index, C_{ae} vs. Depth</p>	<p>DRAWN PMW</p>	<p>DATE 9/9/2020</p>
		<p>CHECKED</p>	<p>DATE 9/9/2020</p>
		<p>SCALE Not To Scale</p>	<p>A4</p>
		<p>PROJECT No 5.03.1</p>	<p>FIGURE No 278</p>

D:\Projects\5.03.1\5.03.1_01\CONSOL_CAE_VS_RL_BY_PTID.DGD1.P.5.03.2.GPJ --DrawingFile--> 9/9/2020 16:54 10.01.00.11 Datgel Lab and In Situ Tool - DGD1 Lib: DGD1.P.5.03.2.2020-09-08 Proj: DGD1-DLST 5.03.1 2020-09-05



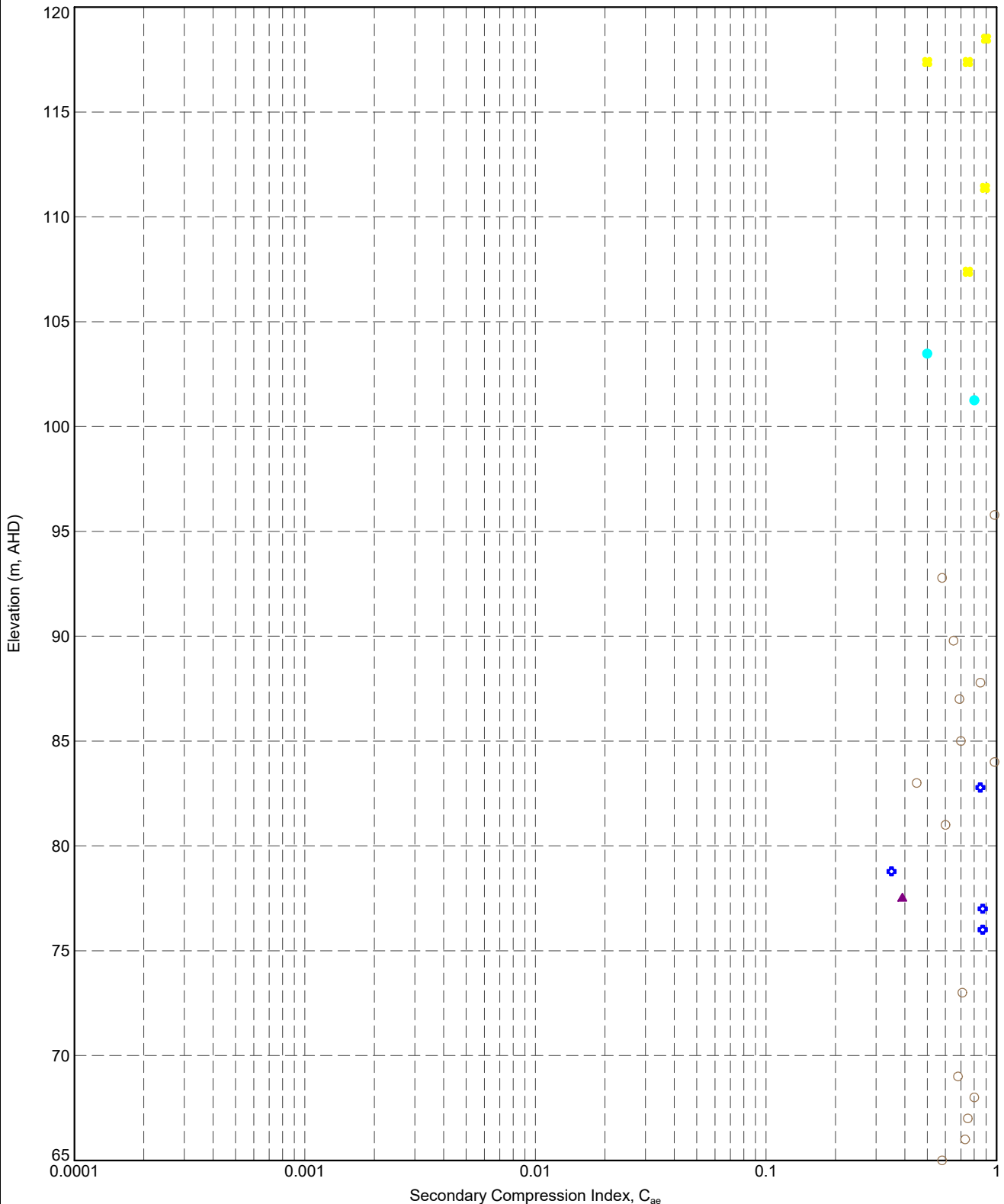
PointID Legend
 ■ ST/1090A
 ● ST/1090B/PRM
 ◆ ST/1149A
 ◇ ST/1149B/VST_PZW
 ✕ ST/1162A/PZW
 ● ST/1162B/VST_PZW




TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Secondary Compression Index, C_{ae} vs. Elev.

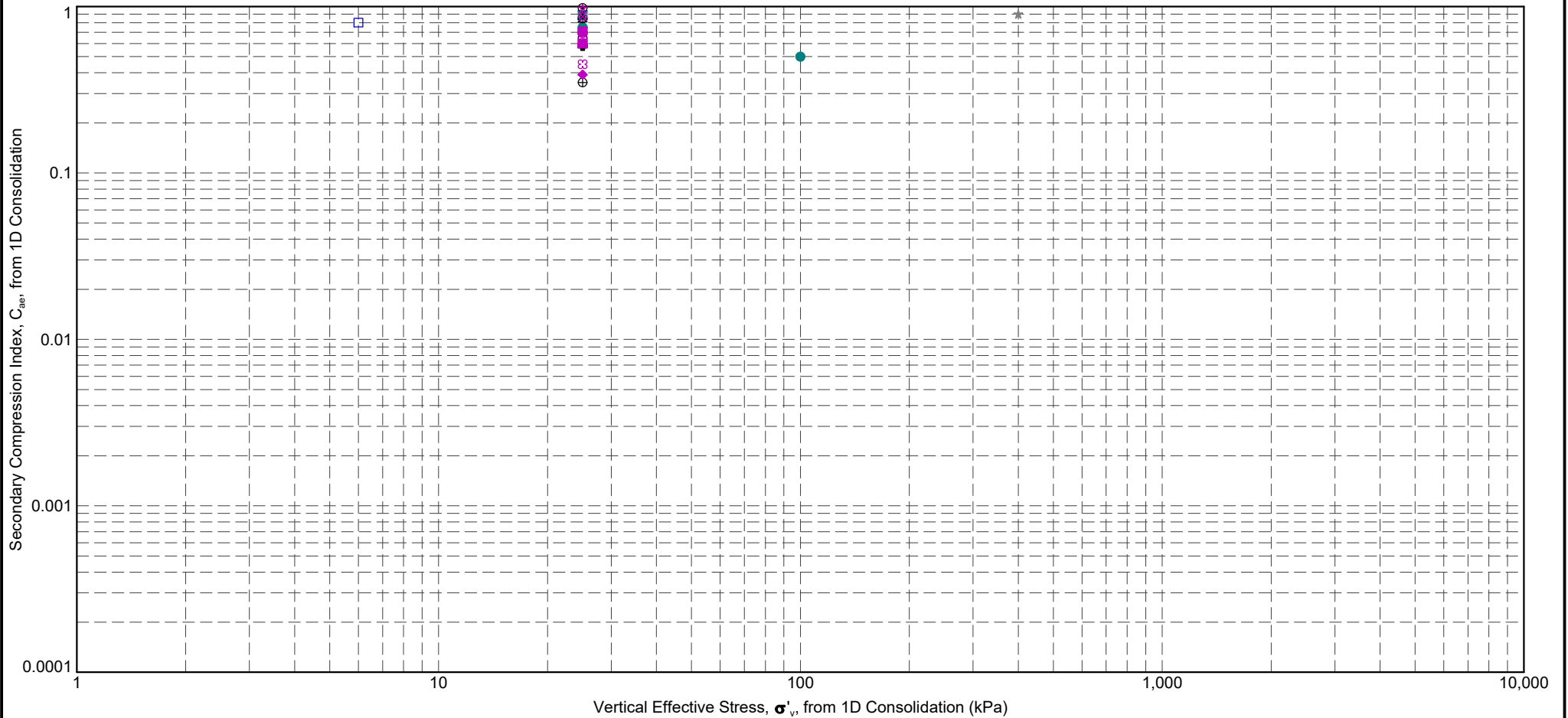
DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	279

DGDTP.5.03.2.LIB.GLB_Graph_A.LS.ID.CONSOLE.CAE.VS.RL.BY.UNIT.DGDTP.5.03.2.GPJ --DrawingFile-- 9/9/2020 16:54 10.01.00.11 Datgel Lab and In Situ Tool - DGD Lib: DGDTP.5.03.2.2020-09-09.Pjt: DGDTP.DL.ST.5.03.1.2020-09-05



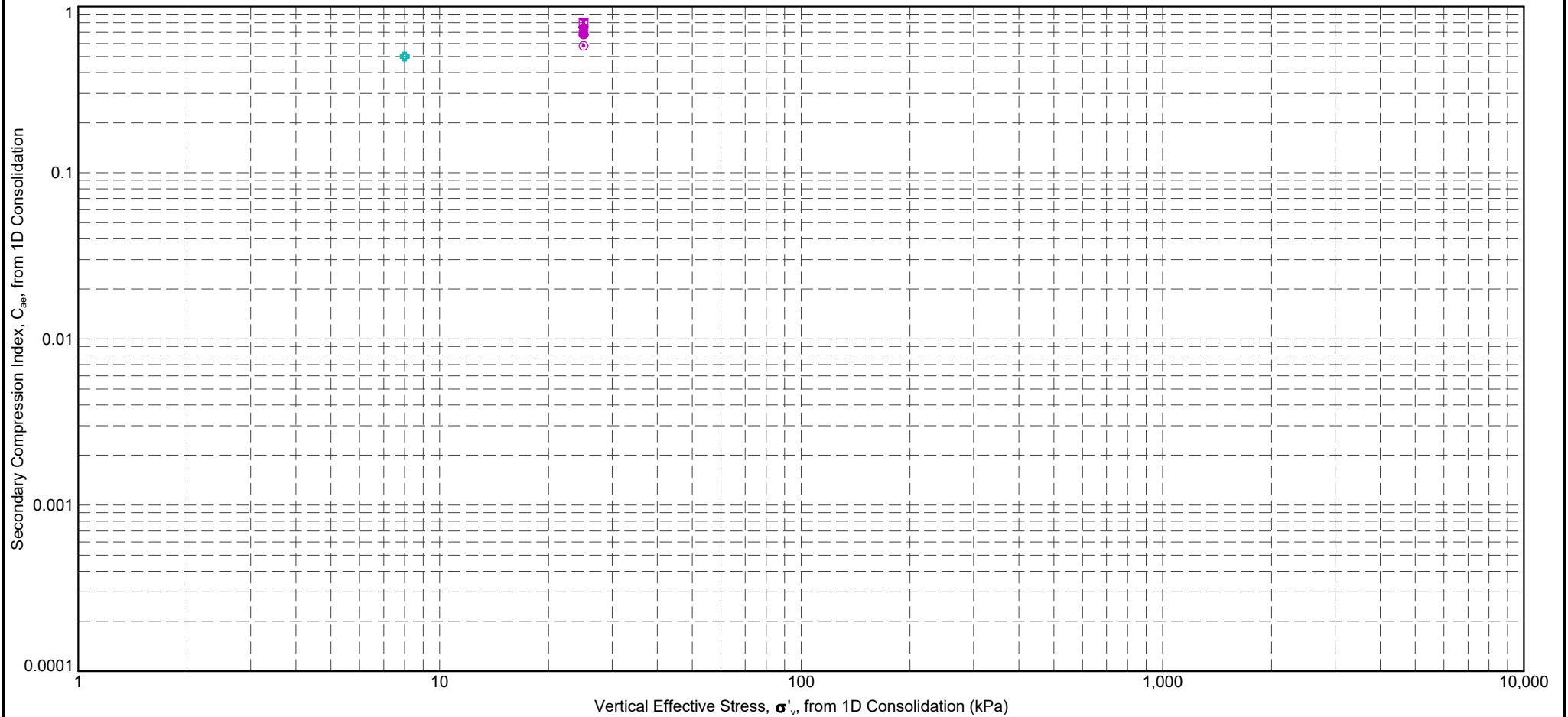
- Geology Unit Legend**
- FILL - BACKFILL
 - ▲ E - Estuarine (Transitional)
 - F2 - Alluvial soil (Non-granular)
 - M - Marine Clay
 - ⊕ O(C) - Old Alluvium (Distinctly weathered)
 - G(VI) - Granite (rocks & associated soils) Residua...

 Datgel DATA SOLUTIONS Geotechnics • Geoenvironment • Laboratory	TITLE Datgel Engineer 1 Somewhere, World Construction Project Secondary Compression Index, C_{ae} vs. Elev.	DRAWN	PMW	DATE	9/9/2020
	CHECKED	DATE	9/9/2020		
	SCALE	Not To Scale			A4
	PROJECT No	5.03.1	FIGURE No	280	




- ST/1090A 4.00 m
- ⊠ ST/1090A 10.00 m
- ▲ ST/1090A 14.00 m
- ★ ST/1090B/PRM 3.00 m
- ⊙ ST/1149A 6.00 m
- ⊕ ST/1149A 9.00 m
- ST/1149A 12.00 m
- △ ST/1149A 14.00 m
- ⊗ ST/1149A 19.00 m
- ⊕ ST/1149A 23.00 m
- ST/1149B/VST_PZW 0.50 m
- ST/1162A/PZW 17.00 m
- ST/1162A/PZW 19.00 m
- ★ ST/1162A/PZW 20.00 m
- ⊗ ST/1162A/PZW 21.00 m
- ST/1162A/PZW 23.00 m
- ◆ ST/1162A/PZW 26.45 m
- ◇ ST/1162A/PZW 27.00 m
- × ST/1162A/PZW 28.00 m
- ST/1162A/PZW 31.00 m

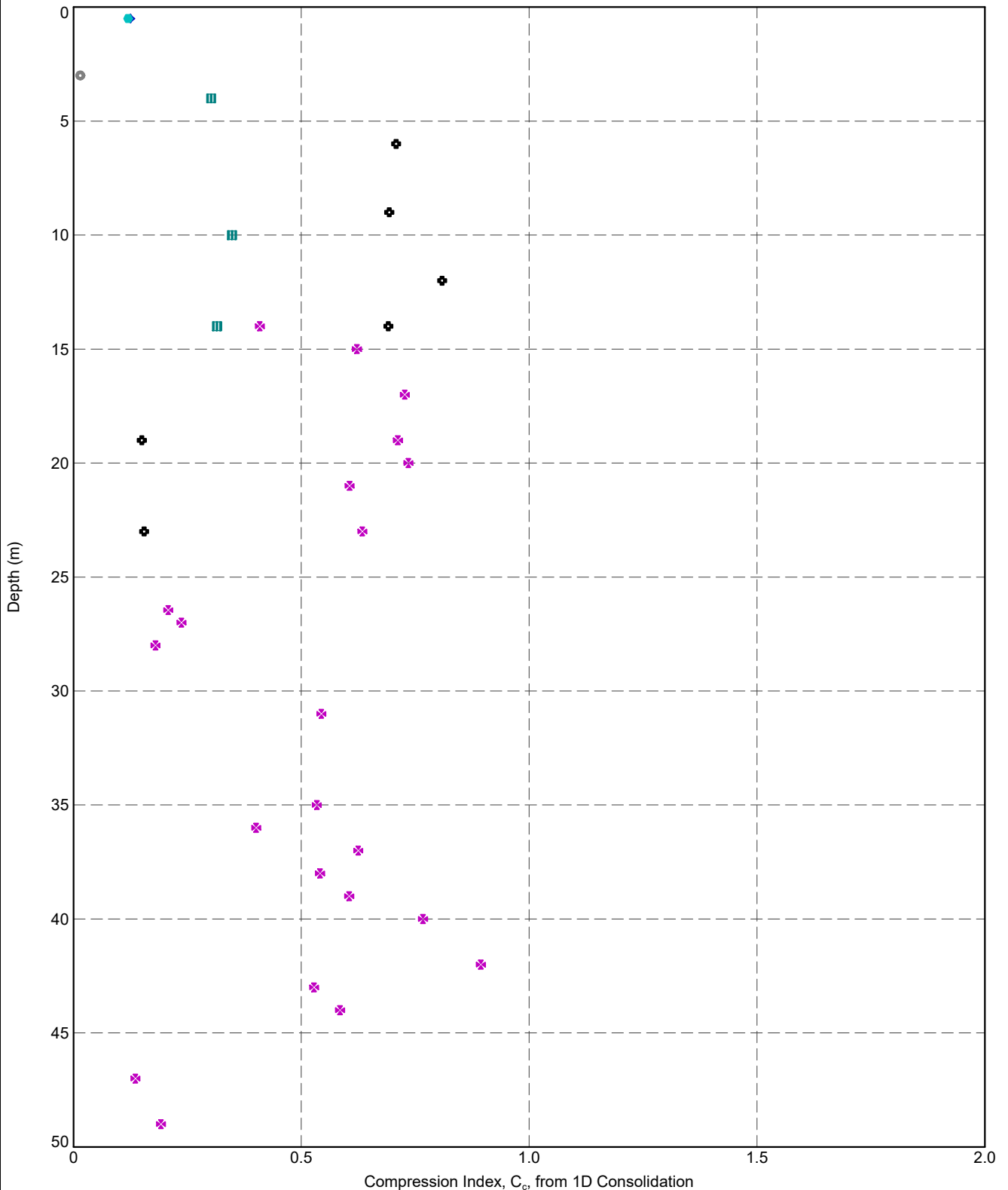
	TITLE		DRAWN		DATE
	Datgel Engineer 1 Somewhere, World Construction Project C_{ae} vs. σ'_v		PMW		9/9/2020
			CHECKED		9/9/2020
			SCALE		A4
PROJECT No 5.03.1			FIGURE No 281		



- ST/1162A/PZW 35.00 m
- ST/1162A/PZW 36.00 m
- ▲ ST/1162A/PZW 37.00 m
- ★ ST/1162A/PZW 38.00 m
- ST/1162A/PZW 39.00 m
- ⊕ ST/1162B/VST_PZW 0.00 m

	TITLE	Datgel Engineer 1 Somewhere, World Construction Project C_{ae} vs. σ'_v		DRAWN PMW	DATE 9/9/2020
				CHECKED	DATE 9/9/2020
		SCALE Not To Scale			A4
		PROJECT No 5.03.1		FIGURE No 281	

DGDTP.5.03.2.LIB.GLB_Graph_A.LS.ID.CONSOLE.CC.VS.DEPTH.BY.PTID.DGDTP.5.03.2.GPJ <<DrawingFile>> 9/9/2020 16:54 10.01.00.11 Datgel Lab and In Situ Tool - DGD Lib - DGDTP.5.03.2.2020-09-08 Proj.DGDTP.5.03.1.2020-09-05



- PointID Legend
- ST/1090A
 - ST/1090B/PRM
 - ⊕ ST/1149A
 - ◆ ST/1149B/VST_PZW
 - ⊗ ST/1162A/PZW
 - ST/1162B/VST_PZW

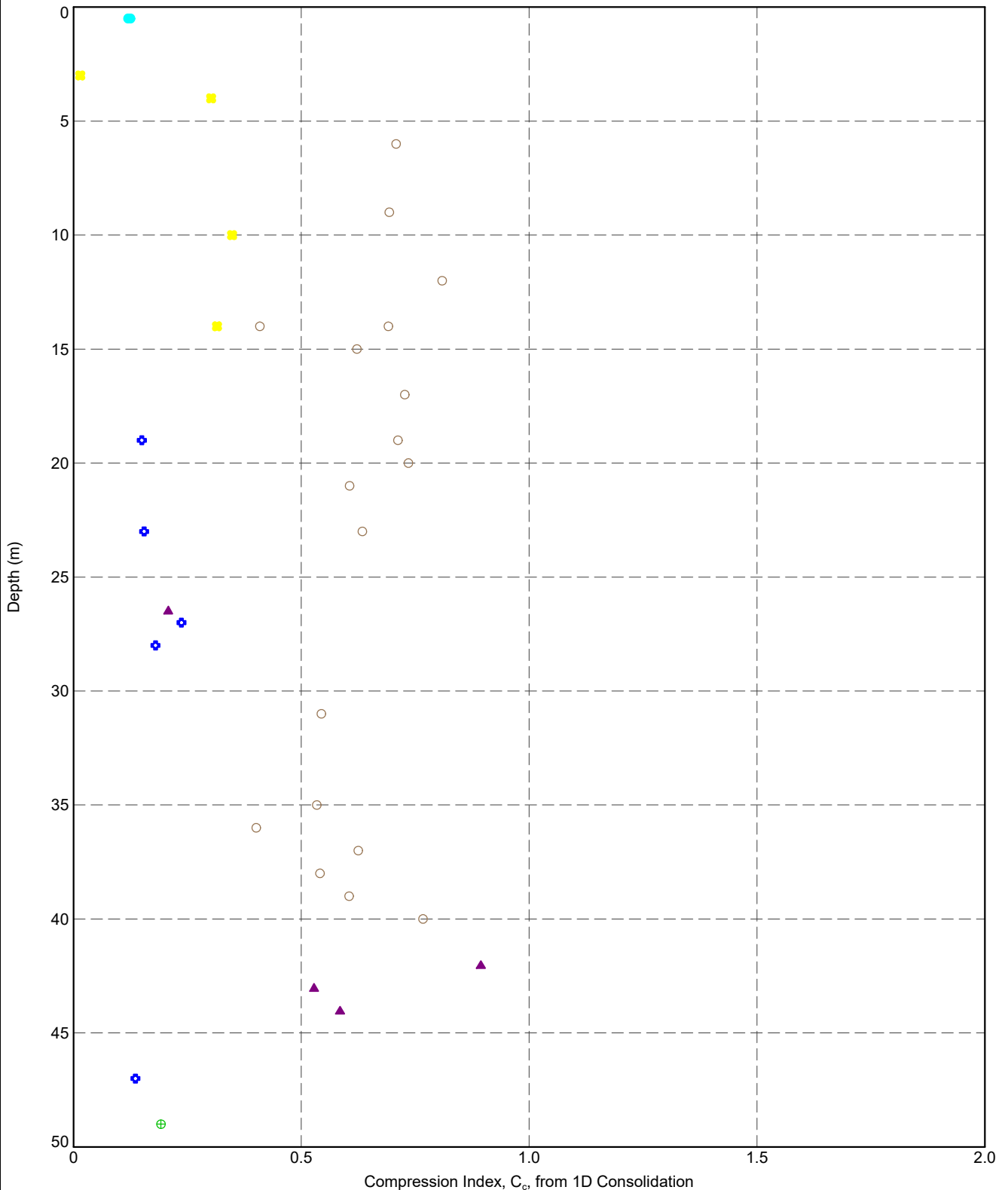


TITLE

Datgel
Engineer 1
Somewhere, World
Construction Project
Compression Index (C_c) vs. Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	282

DGDTP.5.03.2.LIB.GLB_Graph_A.LS.ID.CONSOLE.CC.VS.DEPTH.BY.UNIT.DGDTP.5.03.2.GPJ --DrawingFile--> 9/9/2020 16:54 10.01.00.11 Datgel Lab and In Situ Tool - DGD [Lib: DGDTP.5.03.2.2020-09-08 Proj: DGDTP.5.03.1.2020-09-05]

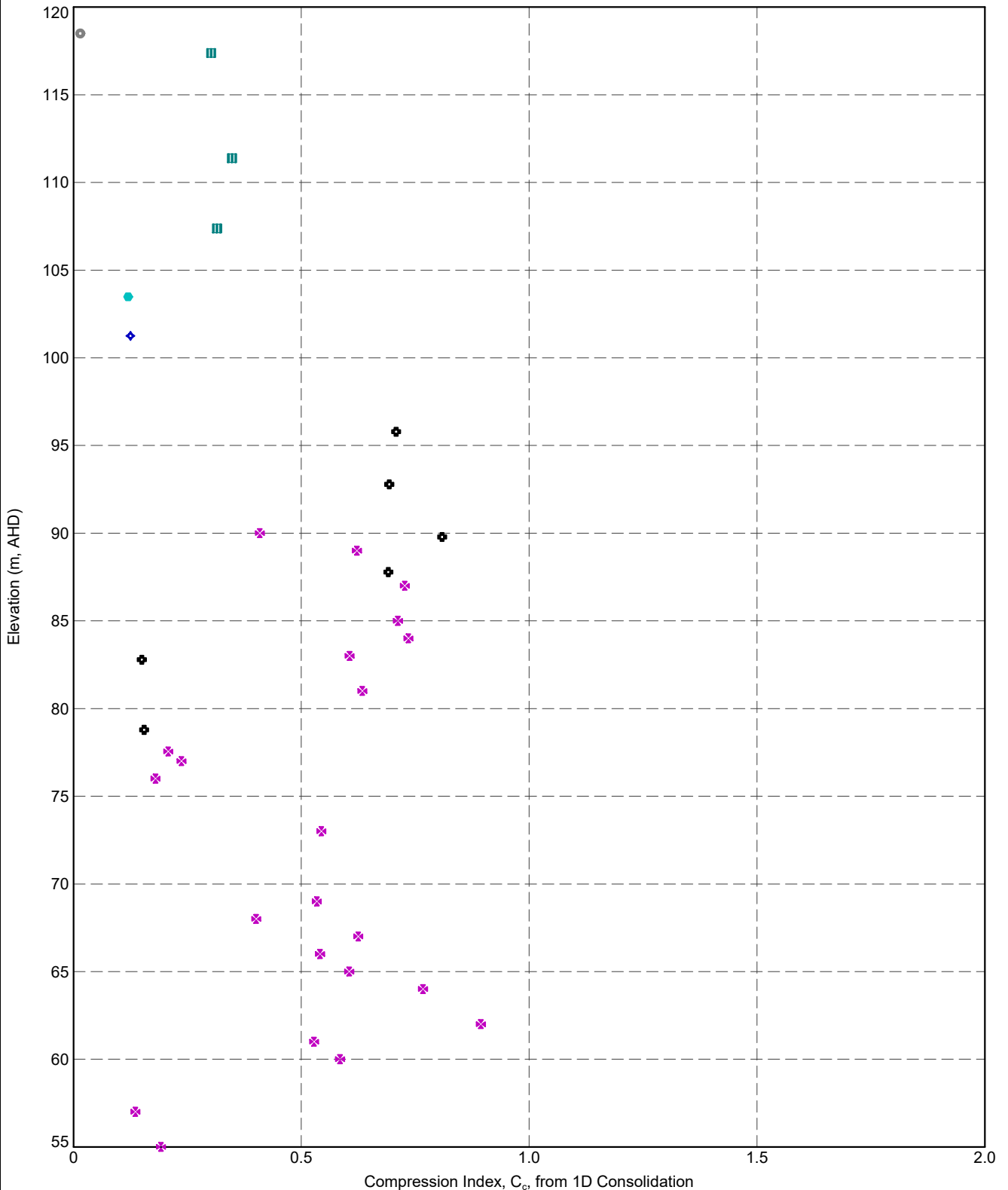


Geology Unit Legend

- FILL - BACKFILL
- ▲ E - Estuarine (Transition)
- ◆ F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- ⊕ O(C) - Old Alluvium (Distinctly weathered)
- G(VI) - Granite (rocks & associated soils) Residua...

 Datgel DATA SOLUTIONS Geotechnics • Geoenvironment • Laboratory	TITLE Datgel Engineer 1 Somewhere, World Construction Project Compression Index (C_c) vs. Depth	DRAWN	PMW	DATE	9/9/2020	
	CHECKED		DATE	9/9/2020		
	SCALE				Not To Scale	A4
	PROJECT No				5.03.1	FIGURE No	283

DGD1-P.5.03.1 ID:CONSOL CC.VS.RL BY:PTID_DGD1-P.5.03.2.GPJ <<DrawingFile>> 9/9/2020 16:55:10.01.00.11 DatgelLab and H. Sulu Tool: DGD | Ut: DGD1-P.5.03.2.2020-08-09.rvt; DGD1-DLS1.03.1.2020-08-09



- PointID Legend
- ST/1090A
 - ST/1090B/PRM
 - ⊕ ST/1149A
 - ◆ ST/1149B/VST_PZW
 - ⊗ ST/1162A/PZW
 - ST/1162B/VST_PZW

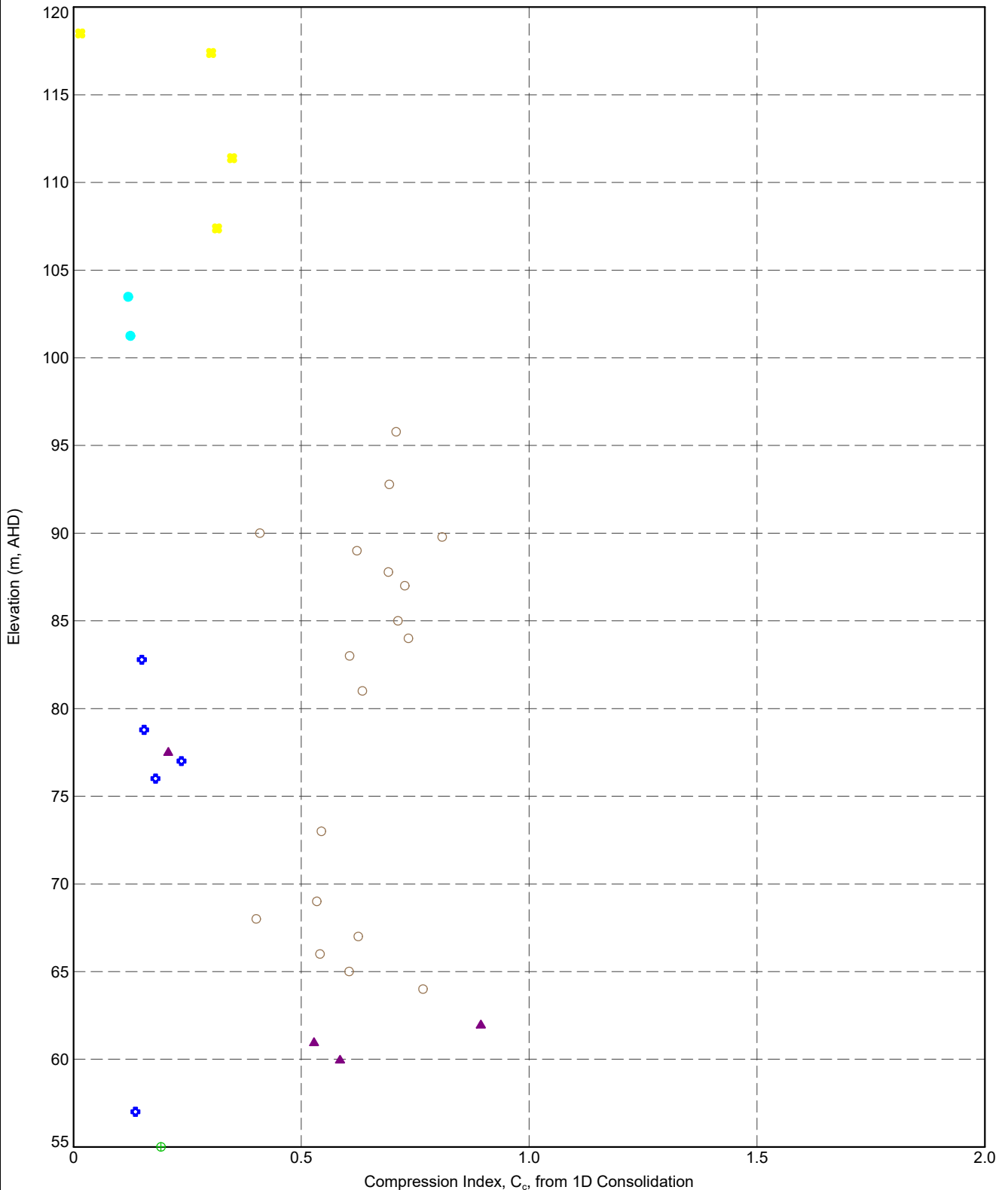


TITLE

Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Compression Index (C_c) vs. Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	284

DGD1-P-5.03.1-UB-GLB-Graph-A-1-S-ID-CONSOL-CC-VS-RL-BY-UNIT-DGD1-P-5.03.2-GP1-
 <<DrawingFile>> 9/9/2020 16:55:10.01.00.11 Datgel Lab and In Situ Tool - DGD [Lib: DGD1-P-5.03.2, 2020-09-08 Fri; DGD1-DIST.5.03.1, 2020-09-05]



Geology Unit Legend

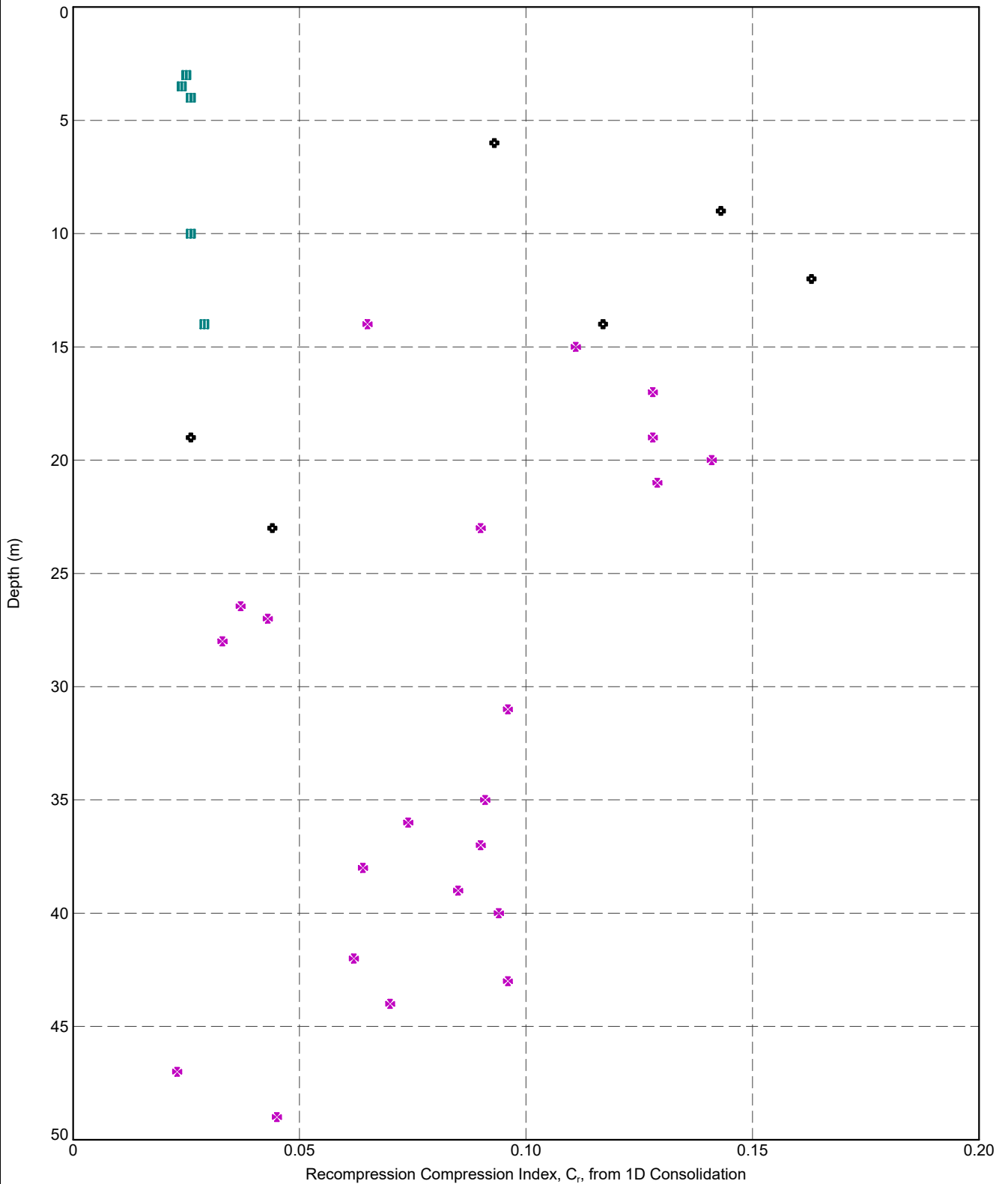
- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- ◆ F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- ⊕ O(C) - Old Alluvium (Distinctly weathered)
- G(VI) - Granite (rocks & associated soils) Residua...



TITLE
Datgel
Engineer 1
Somewhere, World
Construction Project
Compression Index (C_c) vs. Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	285

DGDTP.5.03.2.LIB.GLB_Graph_A.LS.ID.CONSOLE.CR.VS.DEPTH.BY.PTID.DGDTP.5.03.2.GPJ_<<DrawingFile>> 9/9/2020 16:55 10.01.00.11_Datgel Lab and In Situ Tool - DGD (Lib: DGDTP.5.03.2.2020-09-08.Plt.DGDTP.DLST.5.03.1.2020-09-05)



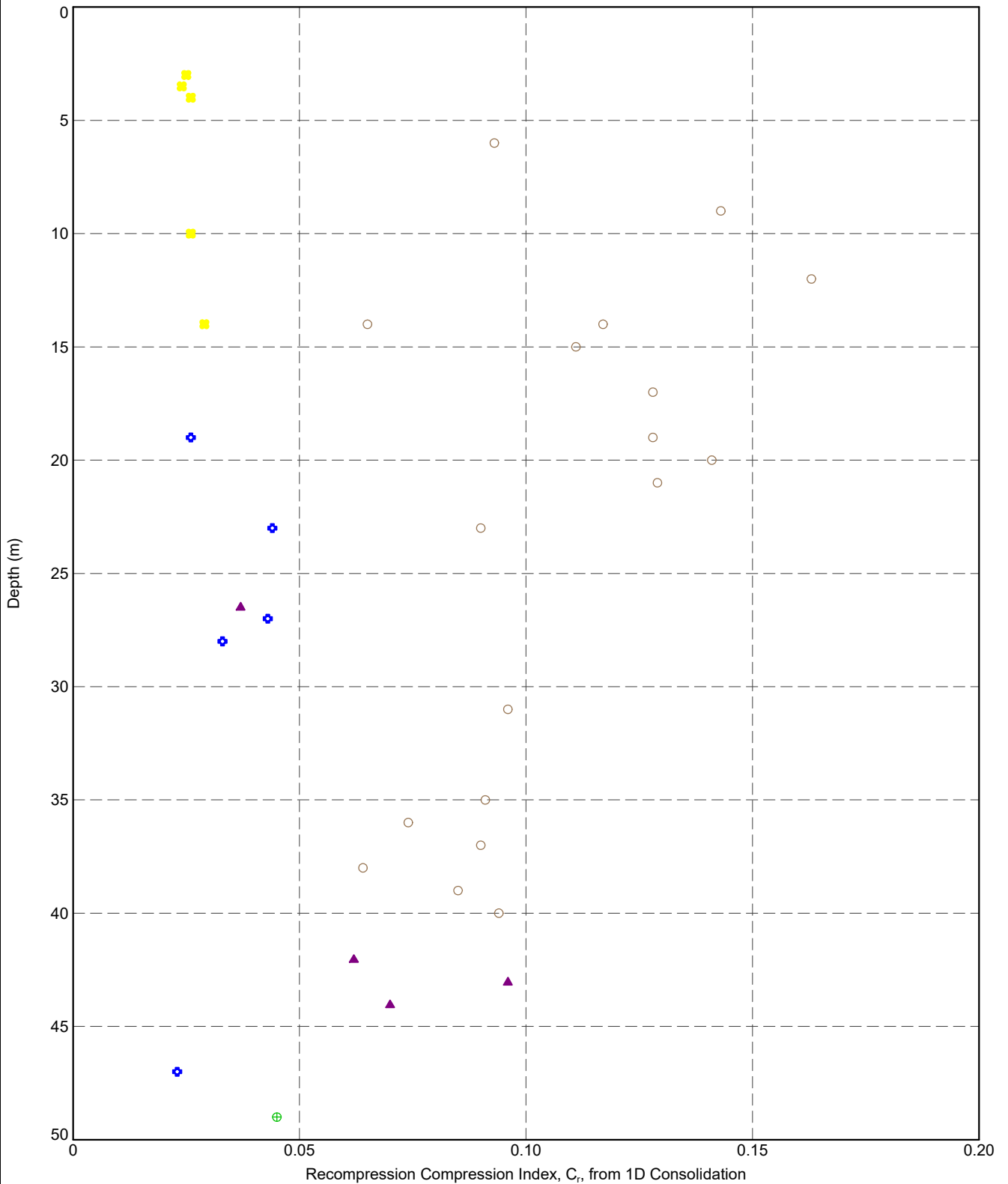
PointID Legend
■ ST/1090A
+ ST/1149A
× ST/1162A/PZW



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Recompression Compression Index vs. Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	286

DGDTP.5.03.2.LIB.GLB_Graph_A.LS.ID.CONSOLE.CR.VS.DEPTH.BY.UNIT.DGDTP.5.03.2.GPJ --DrawingFile--> 9/9/2020 16:55 10.01.00.11 Datgel Lab and In Situ Tool - DGD [Lib: DGDTP.5.03.2.2020-09-08.Pjt: DGDTP.DL.ST.5.03.1.2020-09-05



Geology Unit Legend

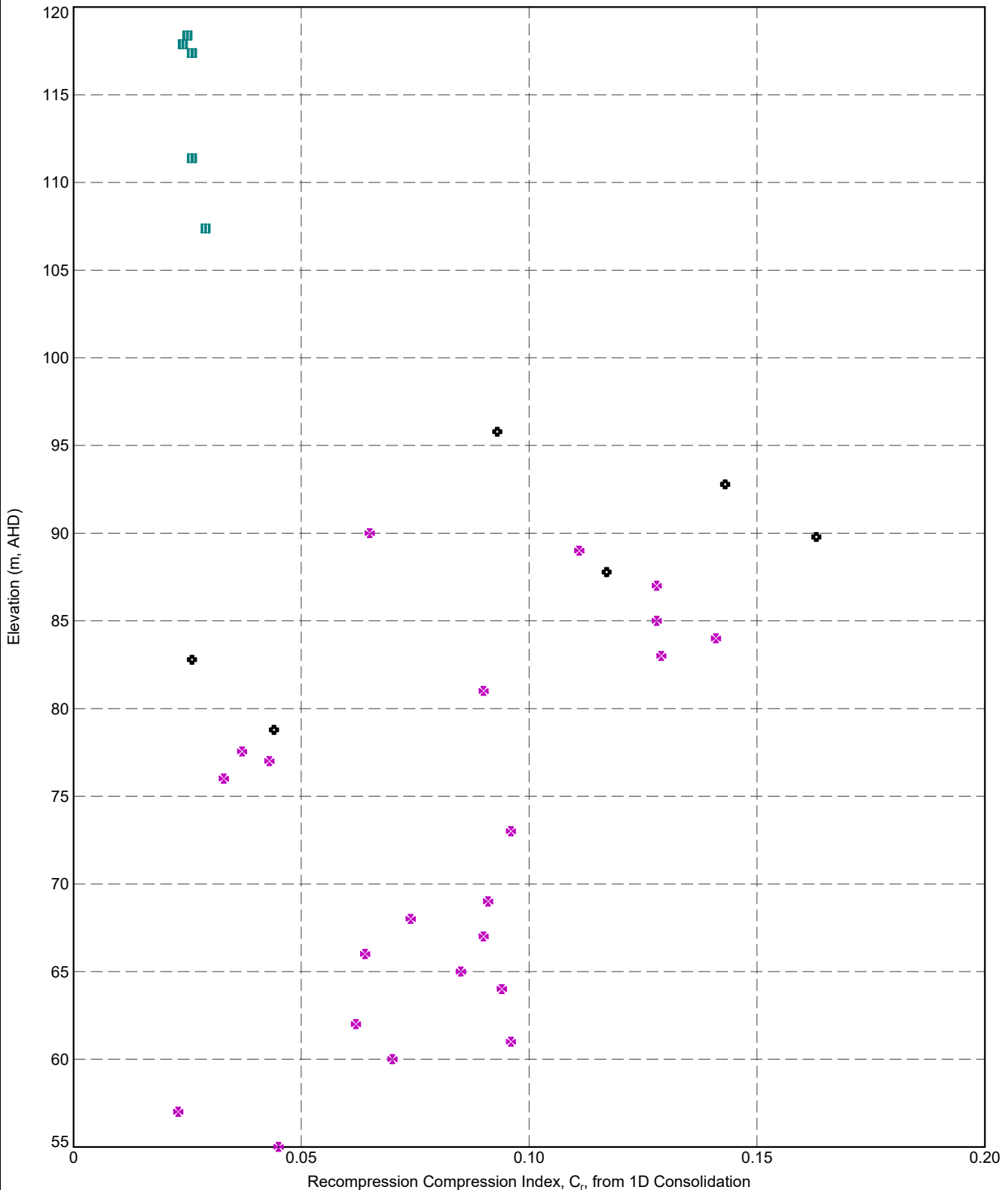
- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- ⊕ F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- ⊕ O(C) - Old Alluvium (Distinctly weathered)
- G(VI) - Granite (rocks & associated soils) Residua...



TITLE
Datgel
Engineer 1
Somewhere, World
Construction Project
Recompression Compression Index vs. Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	287

DGD1-P.5.03.2-UB.GLB - Graph A.L.S ID:CONSOL.CR.VS.RL BY:PTID_DGD1-P.5.03.2.GPJ -<DrawingFiles> 9/9/2020 16:55:10.01.00.11 DatgelLab and H. Sulu Tool: DGD | Utk: DGD1-P.5.03.2.2020-08-29; DGD1-DLS1.03.1.2020-08-05



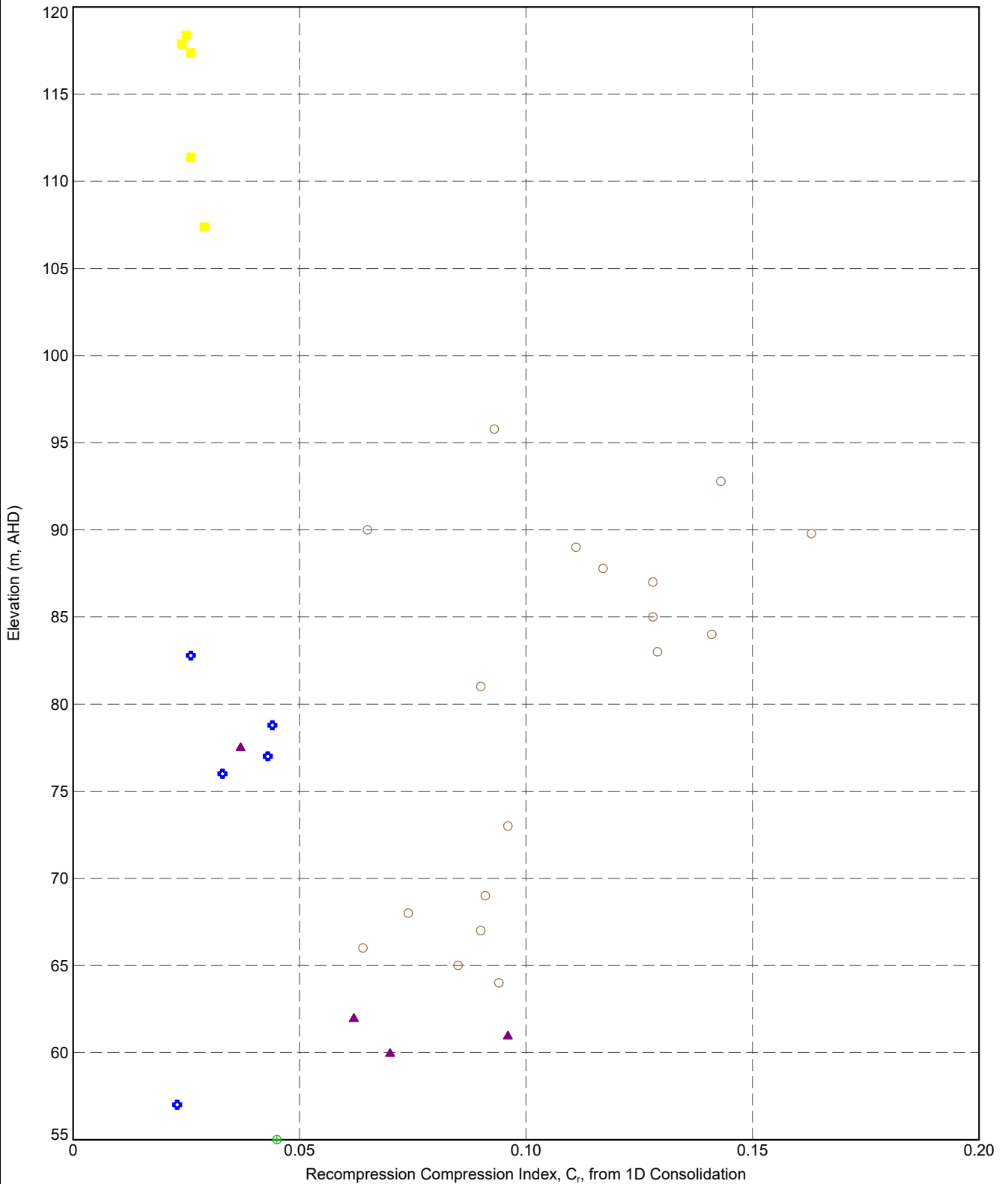
PointID Legend
 ■ ST/1090A
 ⊕ ST/1149A
 ✕ ST/1162A/PZW



TITLE
Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Recompression Compression Index vs. Elev.

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	288

DGD1-P.5.03.2.GLB.Graph A.LS.ID.CONSOLE.CR.VS.RL.BY UNIT.DGD1-P.5.03.2.GPJ.<<DrawingFile>> 9/9/2020 16:55:10.01.00.11.Datgel.Lab.and.In.Situ.Toct.DGD | Lib: DGD1-P.5.03.2.2020-09-08.Fri; DGD1-DLIST.5.03.1.2020-09-05



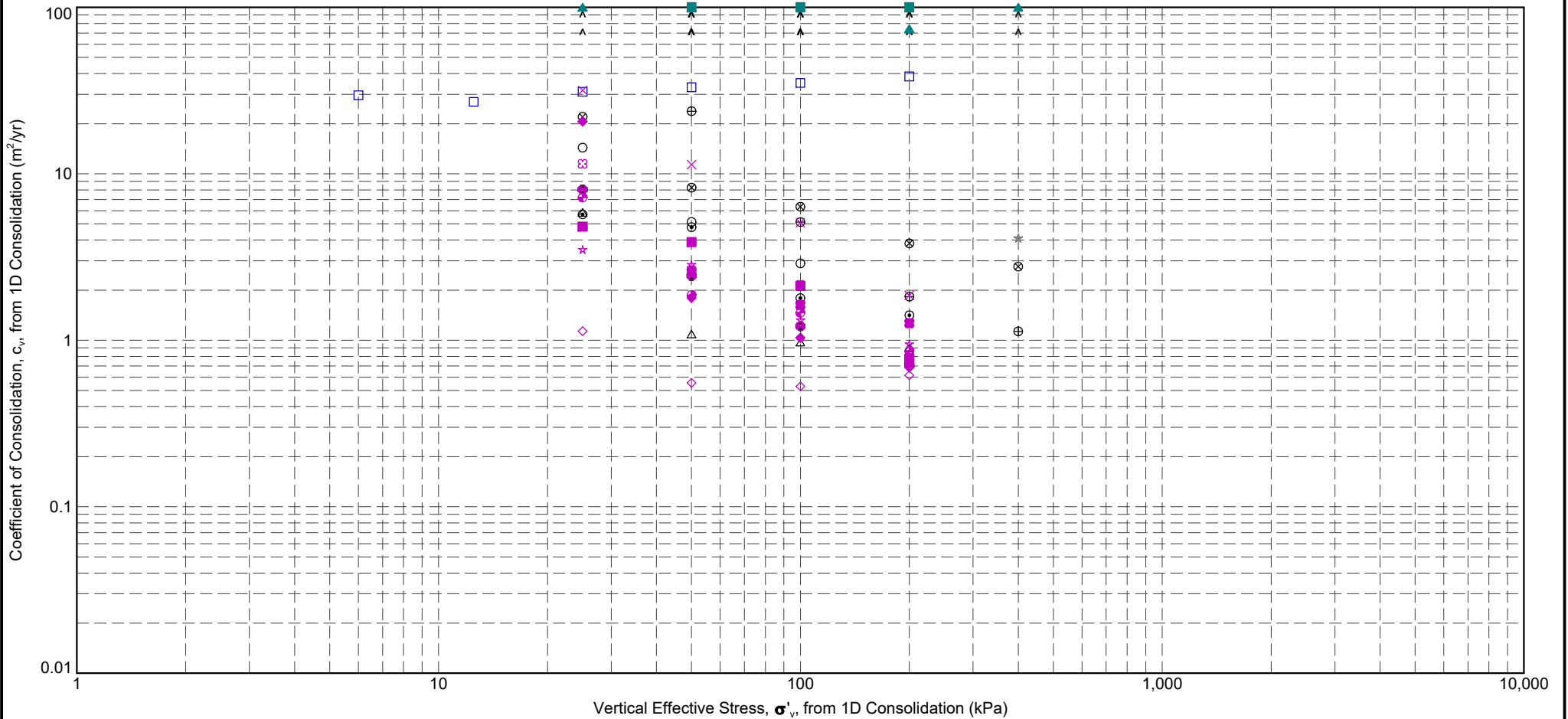
Geology Unit Legend

- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- ◆ F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- ⊕ O(C) - Old Alluvium (Distinctly weathered)
- G(VI) - Granite (rocks & associated soils) Residua...




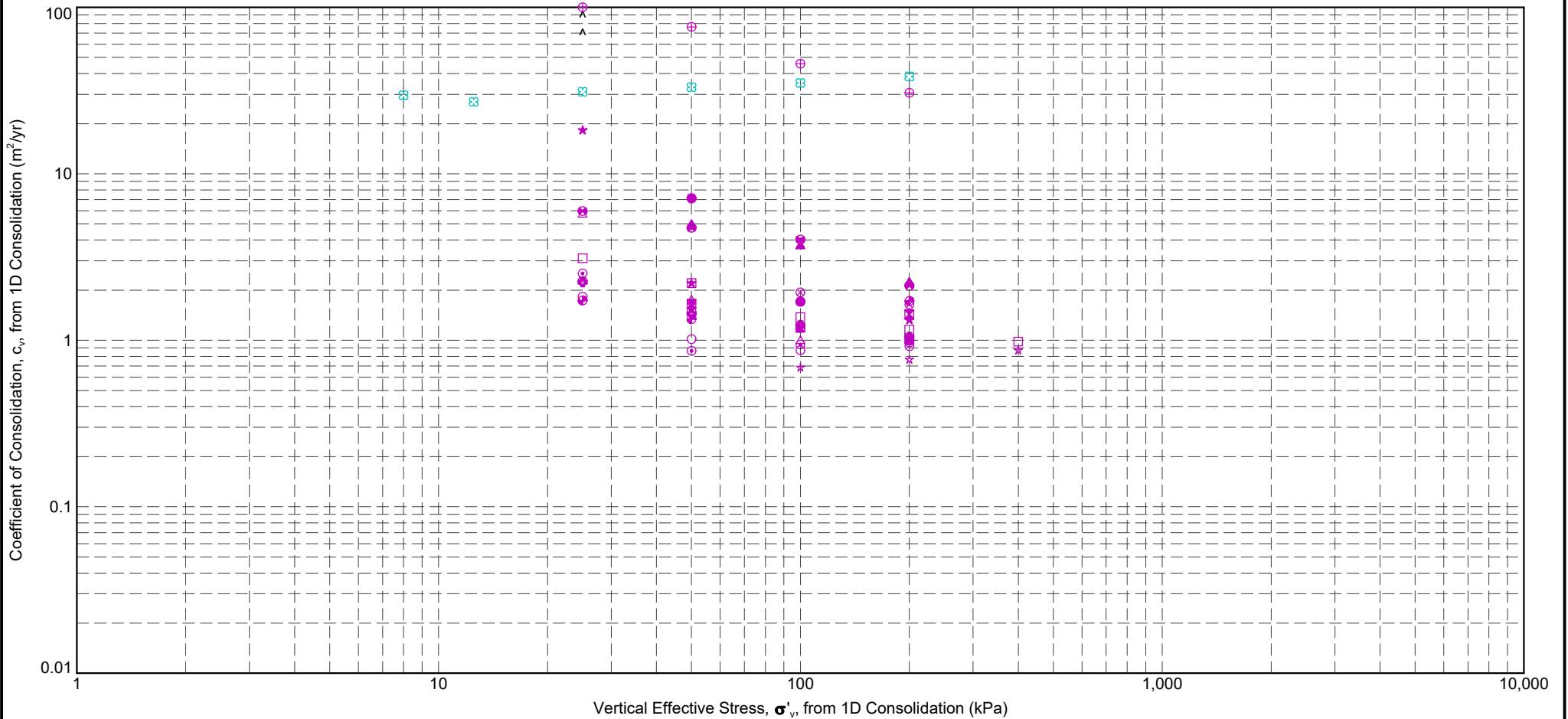
TITLE
Datgel
Engineer 1
Somewhere, World
Construction Project
Recompression Compression Index vs. Elev.

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	289




- | | | | |
|-----------------------|--------------------|---------------------------|------------------------|
| ● ST/1090A 4.00 m | ⊕ ST/1149A 9.00 m | □ ST/1149B/VST_PZW 0.50 m | ■ ST/1162A/PZW 19.00 m |
| ▣ ST/1090A 10.00 m | ○ ST/1149A 12.00 m | ⊗ ST/1162A/PZW 4.00 m | ◆ ST/1162A/PZW 20.00 m |
| ▲ ST/1090A 14.00 m | △ ST/1149A 14.00 m | ⊙ ST/1162A/PZW 14.00 m | ◇ ST/1162A/PZW 21.00 m |
| ★ ST/1090B/PRM 3.00 m | ⊗ ST/1149A 19.00 m | ☆ ST/1162A/PZW 15.00 m | × ST/1162A/PZW 23.00 m |
| ⊙ ST/1149A 6.00 m | ⊕ ST/1149A 23.00 m | ⊗ ST/1162A/PZW 17.00 m | ■ ST/1162A/PZW 26.45 m |

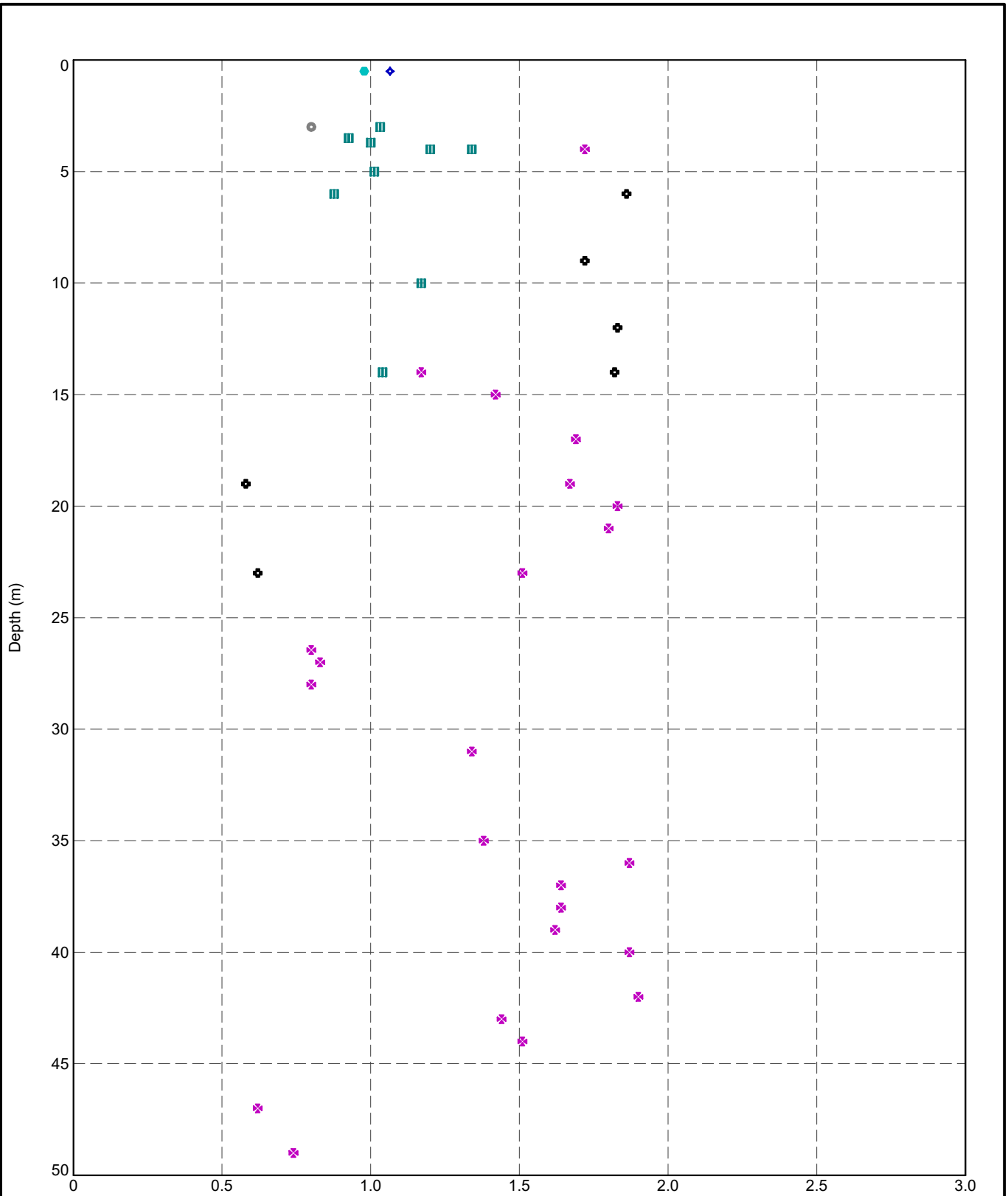
	TITLE	Datgel Engineer 1 Somewhere, World Construction Project c_v vs. σ'_v		DRAWN	PMW	DATE	9/9/2020
				CHECKED		DATE	9/9/2020
				SCALE	Not To Scale		A4
				PROJECT No	5.03.1	FIGURE No	290



- ST/1162A/PZW 27.00 m
- ST/1162A/PZW 28.00 m
- ▲ ST/1162A/PZW 31.00 m
- ★ ST/1162A/PZW 35.00 m
- ST/1162A/PZW 36.00 m
- ⊕ ST/1162A/PZW 37.00 m
- ST/1162A/PZW 38.00 m
- △ ST/1162A/PZW 39.00 m
- ⊗ ST/1162A/PZW 40.00 m
- ⊕ ST/1162A/PZW 42.00 m
- ST/1162A/PZW 43.00 m
- ST/1162A/PZW 44.00 m
- ST/1162A/PZW 47.00 m
- ★ ST/1162A/PZW 49.00 m
- ⊗ ST/1162B/VST_PZW 0.00 m

	TITLE		DRAWN	DATE
	Datgel Engineer 1 Somewhere, World Construction Project c _v vs. σ' _v		PMW	9/9/2020
			CHECKED	DATE
			Not To Scale		A4
		PROJECT No	FIGURE No	
		5.03.1	290	

DGDTP.5.03.1.LIB.GLB.Graph.A.LS.ID.CONSOLE.VS.DEPTH.BY.PTID.DGDTP.5.03.2.2020.09.08.Plt.DGDTP.5.03.1.2020.09.05
 <<DrawingFile>> 9/9/2020 16:55 10.01.00.11 Datgel Lab and In Situ Tool - DGD [Lib: DGDTP.5.03.2.2020.09.08.Plt.DGDTP.5.03.1.2020.09.05]



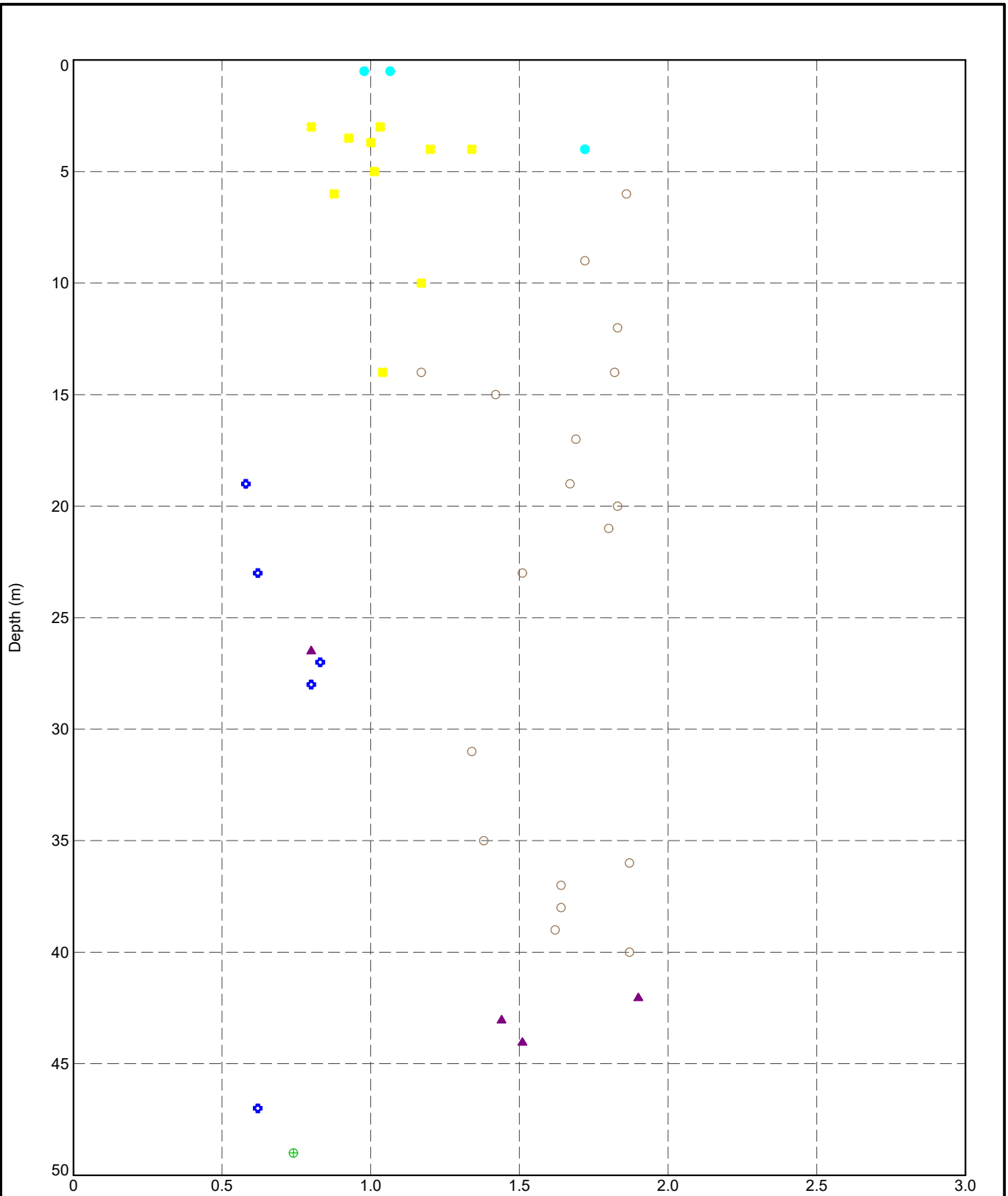
- PointID Legend
- ST/1090A
 - ST/1090B/PRM
 - ⊕ ST/1149A
 - ◆ ST/1149B/VST_PZW
 - ⊗ ST/1162A/PZW
 - ST/1162B/VST_PZW



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Initial Voids Ratio, e_0 vs. Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	291

DGDTP.5.03.1.GLB Graph A.1.S ID CONSOL EIVS DEPTH BY UNIT DGDTP.5.03.2.GPJ <<DrawingFile>> 9/9/2020 16:55 10.01.00.11 Datgel Lab and In Situ Tool - DGD [Lib: DGDTP.5.03.2 2020-09-08 Pjt: DGDTP-01ST.5.03.1 2020-09-05]



Geology Unit Legend

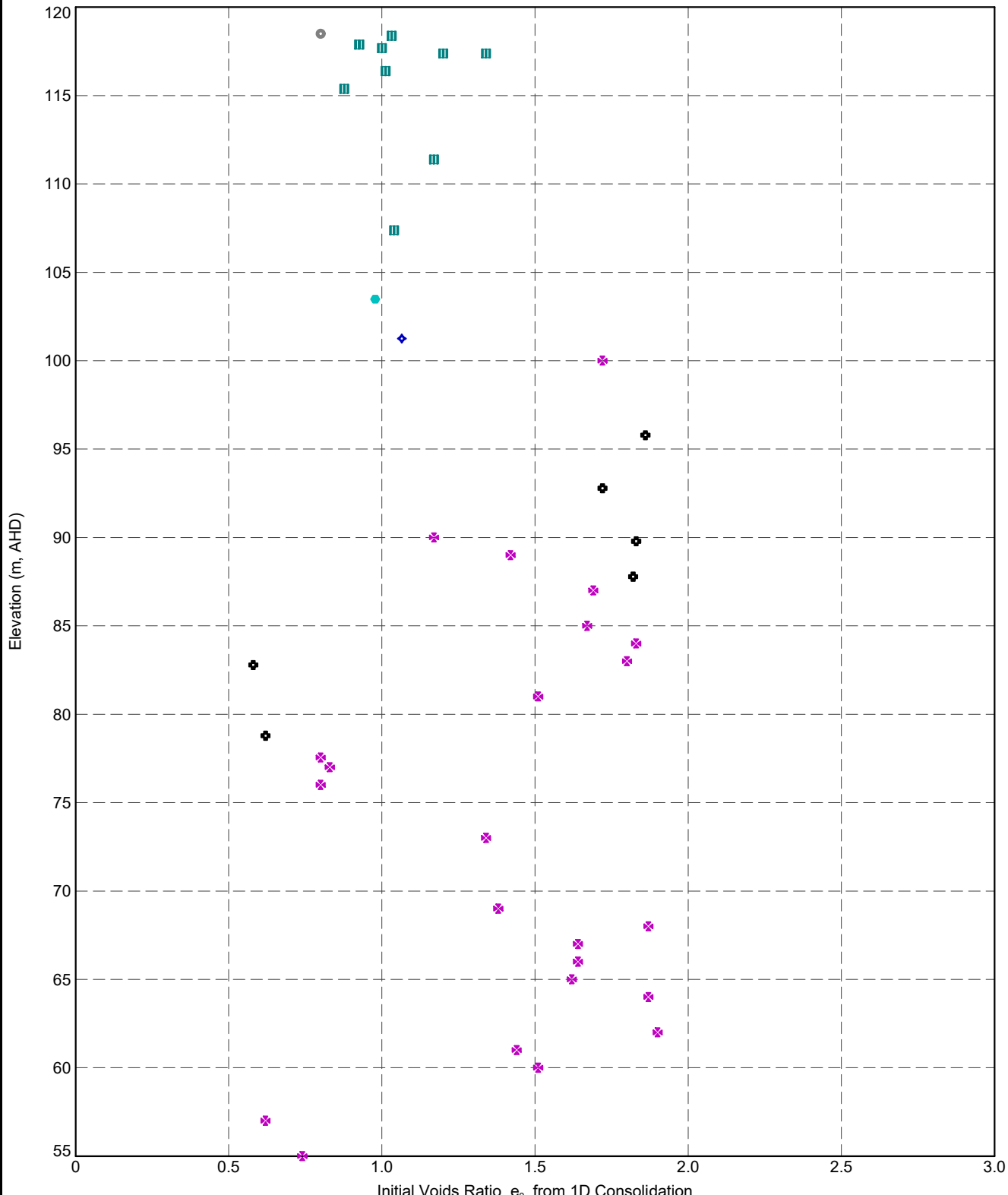
- FILL - BACKFILL
- ▲ E - Estuarine (Transition)
- ◆ F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- ⊕ O(C) - Old Alluvium (Distinctly weathered)
- G(VI) - Granite (rocks & associated soils) Residua...



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Initial Voids Ratio, e_0 vs. Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	292

DGD1-P-5.03.2-UB-GLB-Graph-A-LS-ID-CONSOL-EVVS-RL-BY-PTID-DGD1-P-5.03.2-2020-09-08-Fig-DGD1-DIST-5.03.1-2020-09-05



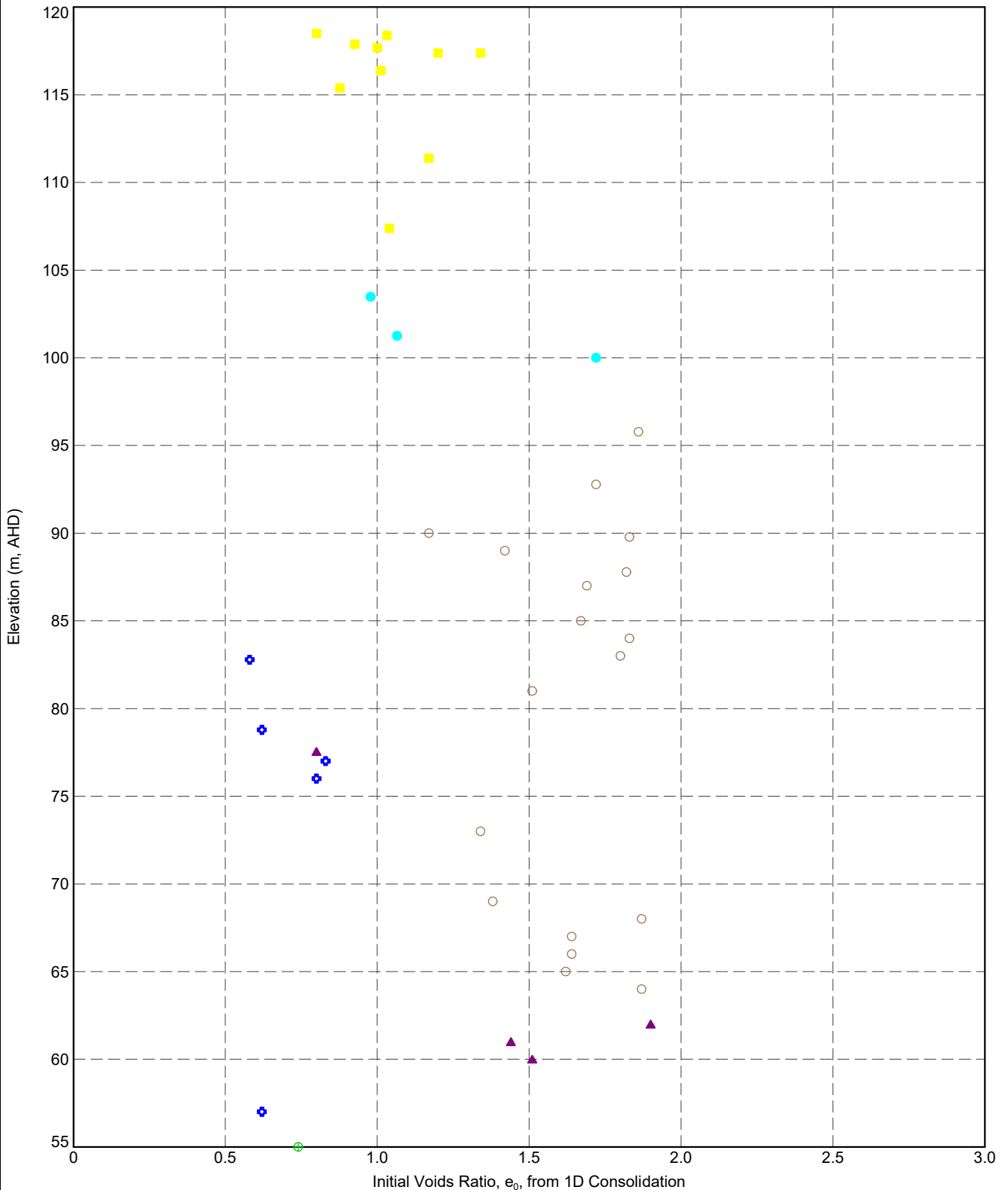
- PointID Legend
- ST/1090A
 - ST/1090B/PRM
 - ⊕ ST/1149A
 - ◆ ST/1149B/VST_PZW
 - ⊗ ST/1162A/PZW
 - ST/1162B/VST_PZW



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Initial Voids Ratio, e_0 vs. Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	293

DGD1-P-5.03.1-UB.GLB Graph A.L.S ID:CONSOL.EVVS.RL.BY:UNIT.DGD1-P-5.03.2.GP.J <<DrawingFile>> 9/9/2020 16:55 10.01.00.11 DatgelLab and In Situ Tool_DGD | Lib_DGD1-P-5.03.2_2020-09-08 P1_DGD1-DLST.5.03.1.2020-09-05



- Geology Unit Legend**
- FILL - BACKFILL
 - ▲ E - Estuarine (Transitional)
 - ◆ F2 - Alluvial soil (Non-granular)
 - M - Marine Clay
 - ⊕ O(C) - Old Alluvium (Distinctly weathered)
 - G(VI) - Granite (rocks & associated soils) Residua...

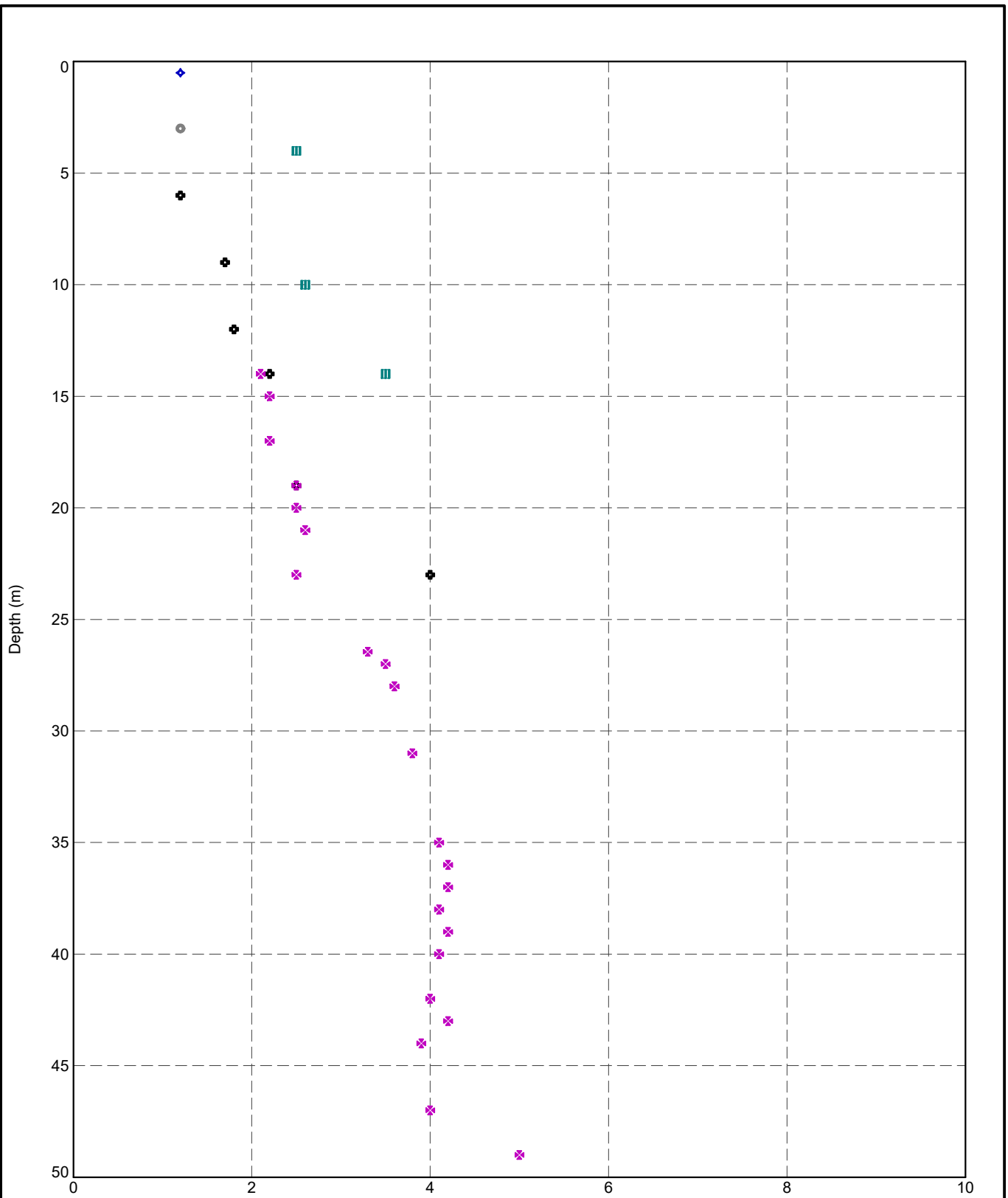
Datgel
DATA SOLUTIONS
Geotechnics • Geoenvironment • Laboratory

TITLE

Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Initial Voids Ratio, e_0 vs. Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	294

DGD1-P-5.03.2-UB-GLB-Graph-A-1-S-ID-CONSOL-OCR-VS-DEPTH-BY-PTID-DGD1-P-5.03.2-OP-1-11-Datgel-Lab-and-In-Situ-Tool-DGD1 [Lib: DGD1-P-5.03.2-2020-09-08 P1; DGD1-DLST-5.03.1-2020-09-05]



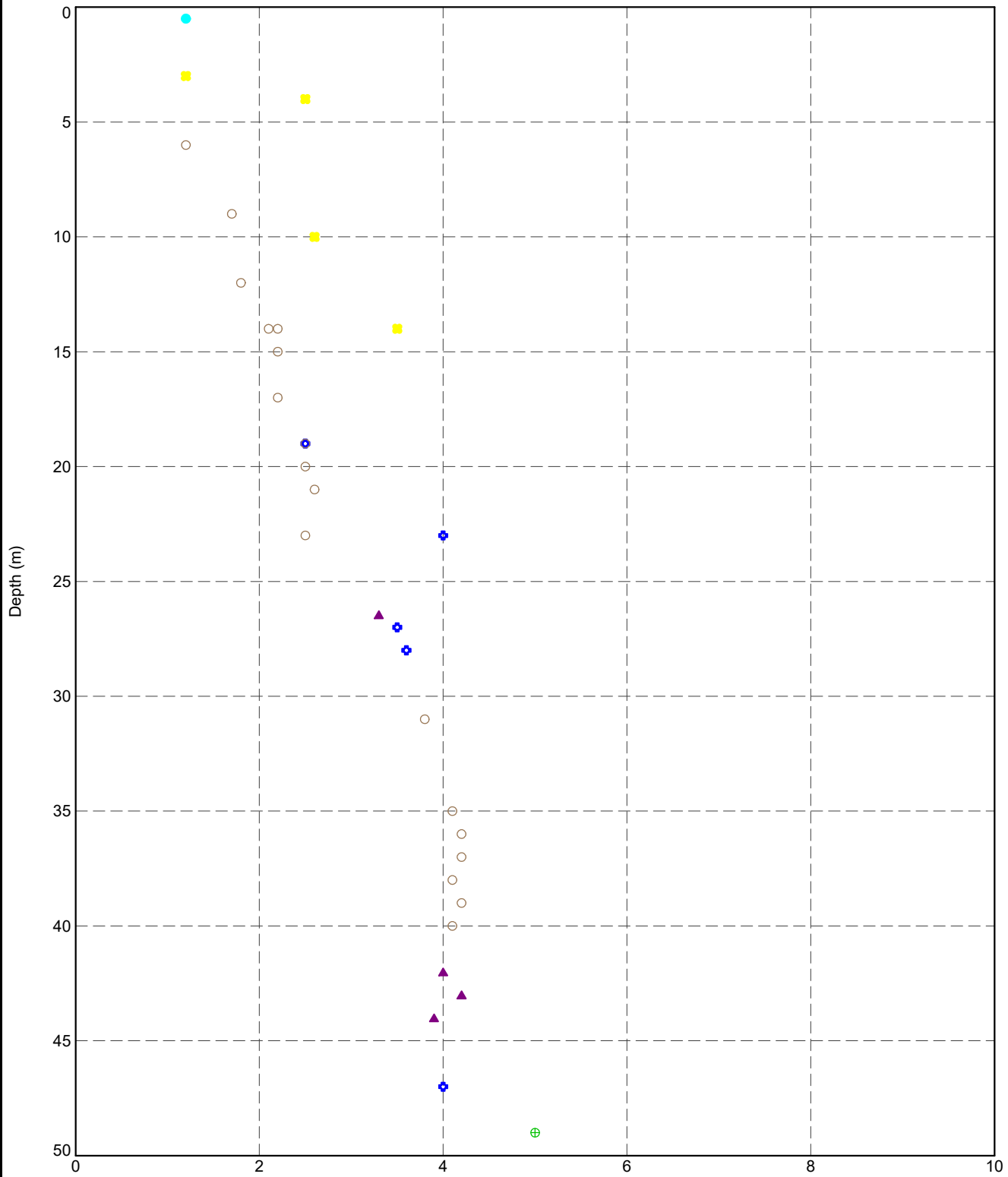
PointID Legend
 ■ ST/1090A
 ● ST/1090B/PRM
 ⊕ ST/1149A
 ◆ ST/1149B/VST_PZW
 ✕ ST/1162A/PZW



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 OCR from 1D Consolidation versus Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	299

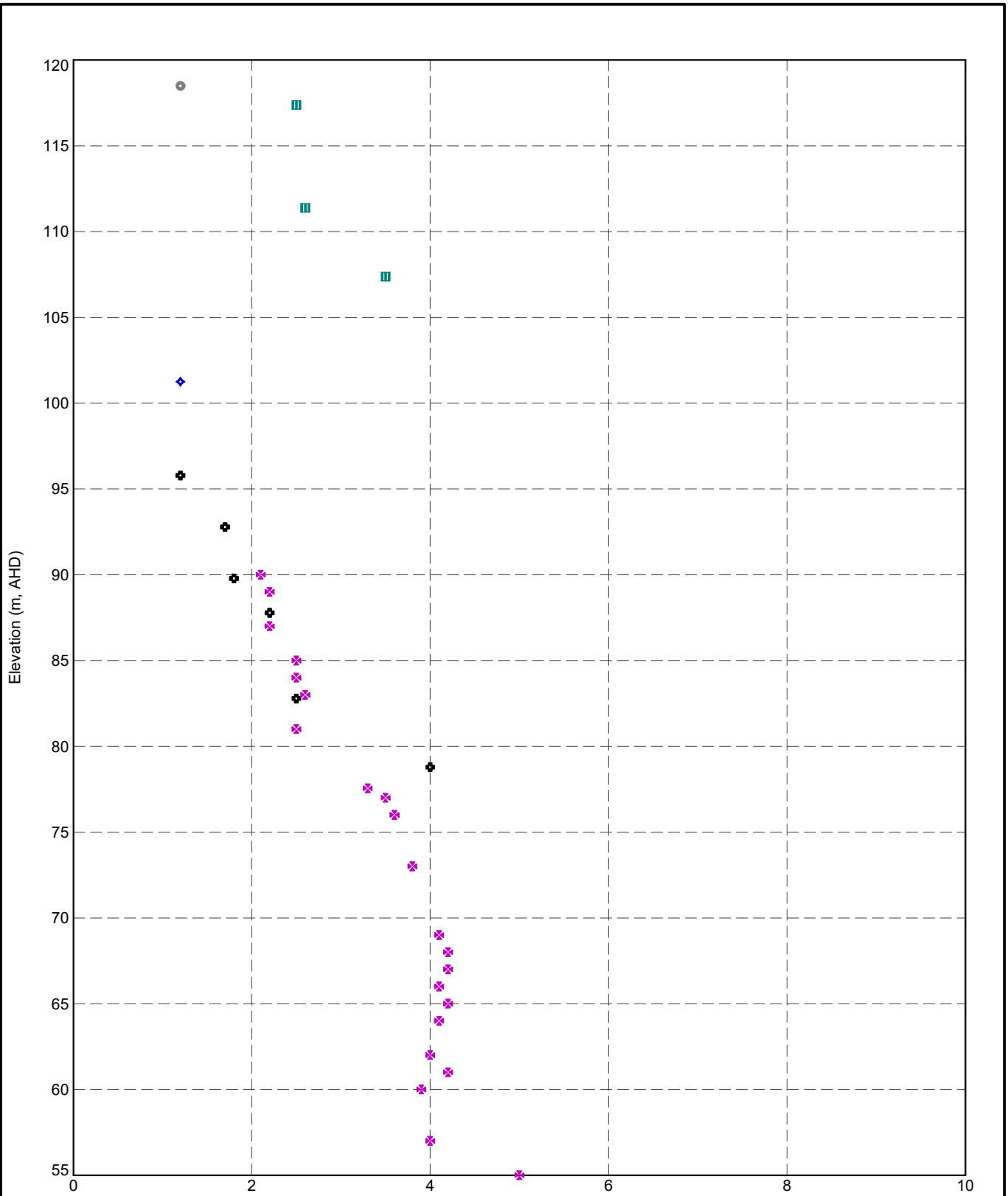
DGD1-P-5.03.1-UB-GLB-Graph-A-LS-ID-CONSOL-OCR-VS-DEPTH-BY-UNIT-DGD1-P-5.03.1-2020-09-05
 9/9/2020 16:55:10.01.00.11-DatgelLab and In Situ Tool - DGD | Lib: DGD1-P-5.03.1-2020-09-05 Pj: DGD1-DIST-5.03.1-2020-09-05



- Geology Unit Legend**
- FILL - BACKFILL
 - ▲ E - Estuarine (Transitional)
 - F2 - Alluvial soil (Non-granular)
 - M - Marine Clay
 - ⊕ O(C) - Old Alluvium (Distinctly weathered)
 - G(VI) - Granite (rocks & associated soils) Residua...

	TITLE Datgel Engineer 1 Somewhere, World Construction Project OCR from 1D Consolidation versus Depth	DRAWN PMW	DATE 9/9/2020
		CHECKED	DATE 9/9/2020
		SCALE Not To Scale	A4
		PROJECT No 5.03.1	FIGURE No 300

DGD1-P.5.03.2.LIB.GLB_Graph_A.LS.ID.CONSOLE.CCR.VS.RL.VY.PT.ID.DGD1-P.5.03.2.GPJ --DrawingFile--> 9/9/2020 16:55 10/01/0011_Datgel Lab and In Situ Test - DGD1 Lib - DGD1-P.5.03.2.2020-09-09.Pjt.DGD1-DIST.5.03.1.2020-09-05



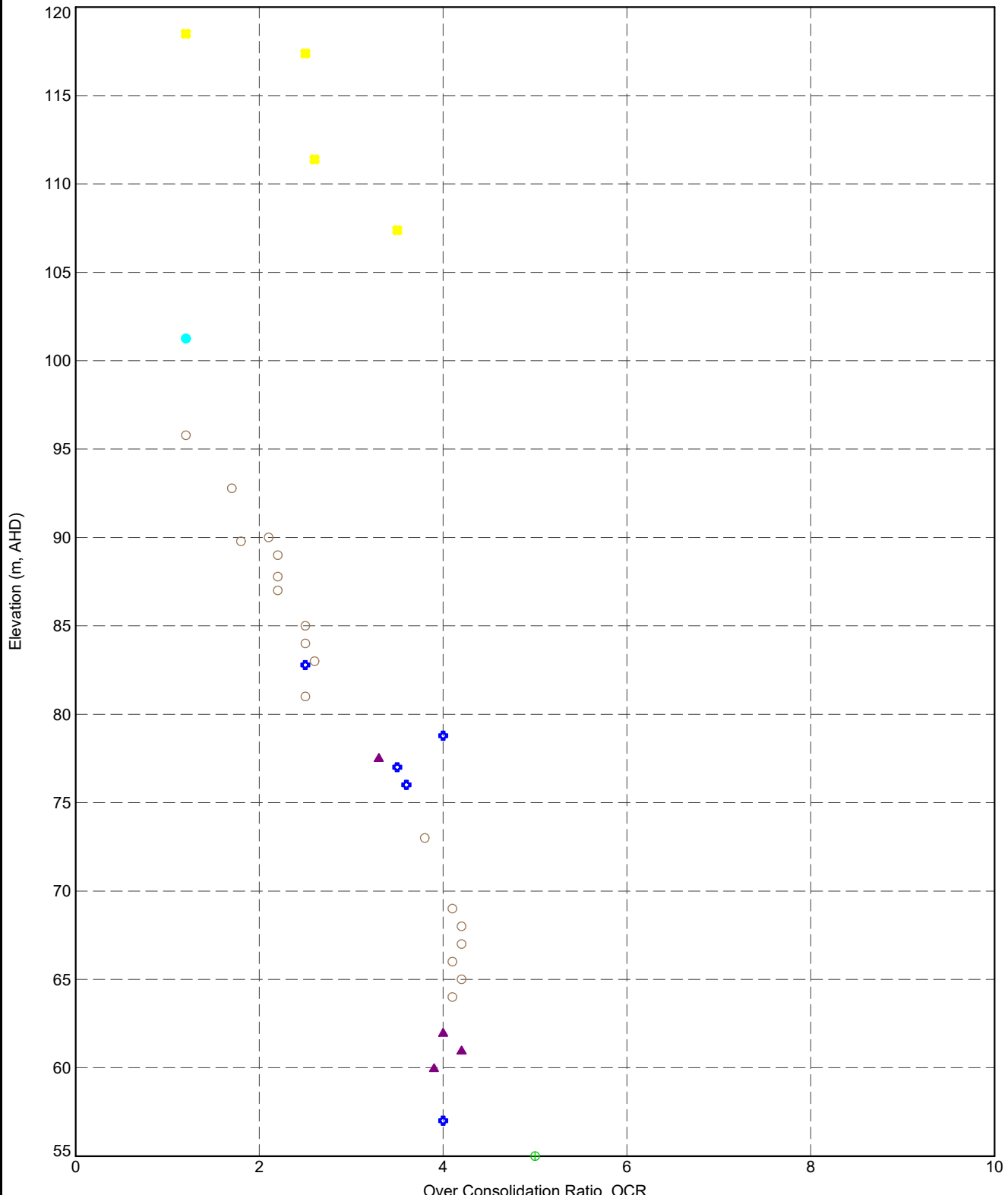
PointID Legend
 ■ ST/1090A
 ● ST/1090B/PRM
 ⊕ ST/1149A
 ◆ ST/1149B/VST_PZW
 ✕ ST/1162A/PZW



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 OCR from 1D Consolidation versus Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	301

DGD1-P.5.03.1.GLB Graph A.LS ID CONSOL OCR VS RL BY UNIT DGD1-P.5.03.2.GPJ -DrawingFile>> 9/9/2020 16:55 10.01.00.11 Datgel Lab and in Situ Tool - DGD [Lib: DGD1-P.5.03.2.2020-09-09.Pjt] DGD1-CL-ST 5.03.1 2020-09-05



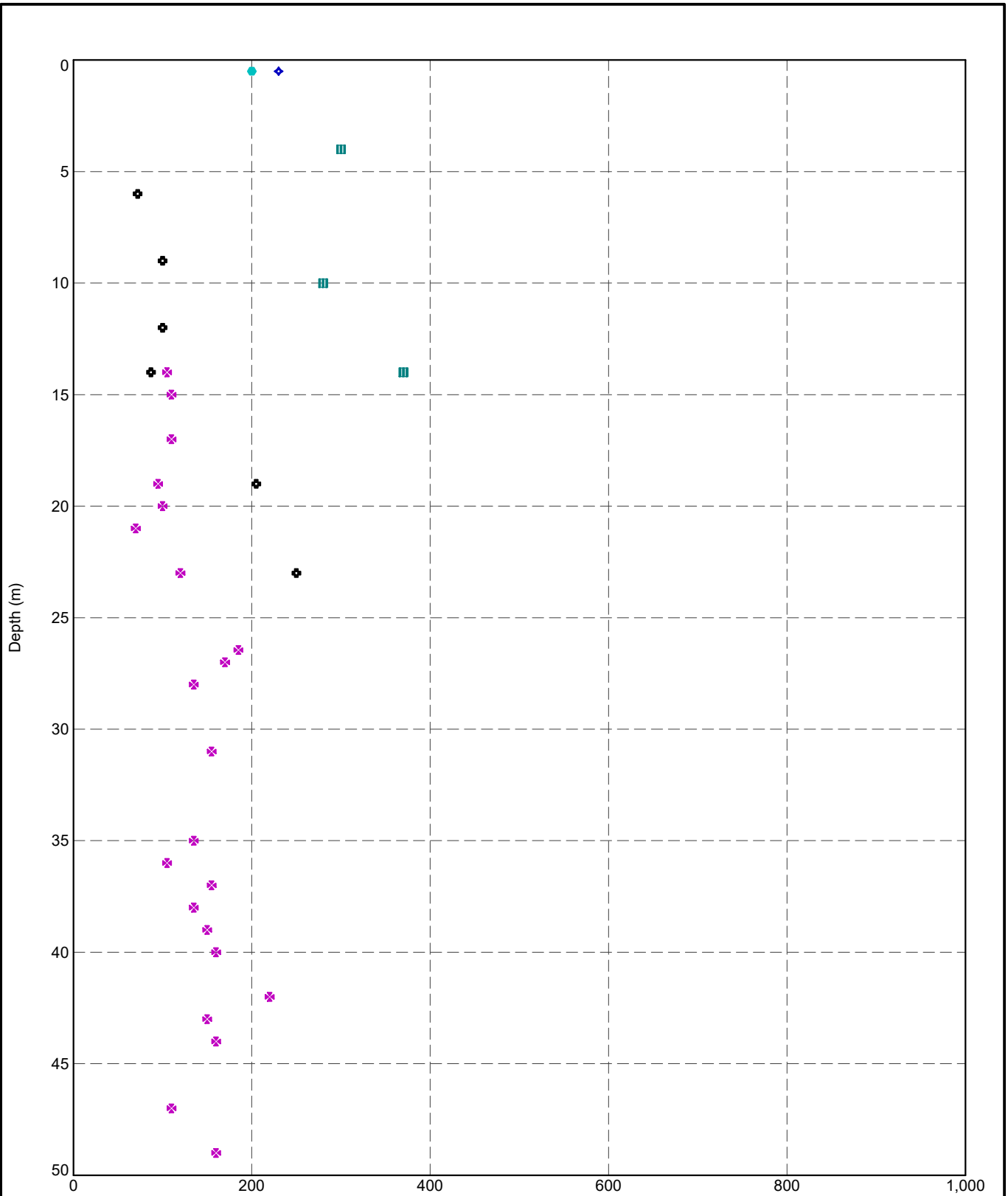
- Geology Unit Legend**
- FILL - BACKFILL
 - ▲ E - Estuarine (Transitional)
 - ◆ F2 - Alluvial soil (Non-granular)
 - M - Marine Clay
 - ⊕ O(C) - Old Alluvium (Distinctly weathered)
 - G(VI) - Granite (rocks & associated soils) Residua...



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
OCR from 1D Consolidation versus Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	302

DGD1-P.5.03.1.LIB.GLB_Graph_A.LS.ID.CONSOLE.P1VS.DEPTH.BY.PTID.DGD1-P.5.03.2.2020-09-08.P1.DGD1-QLST.5.03.1.2020-09-05



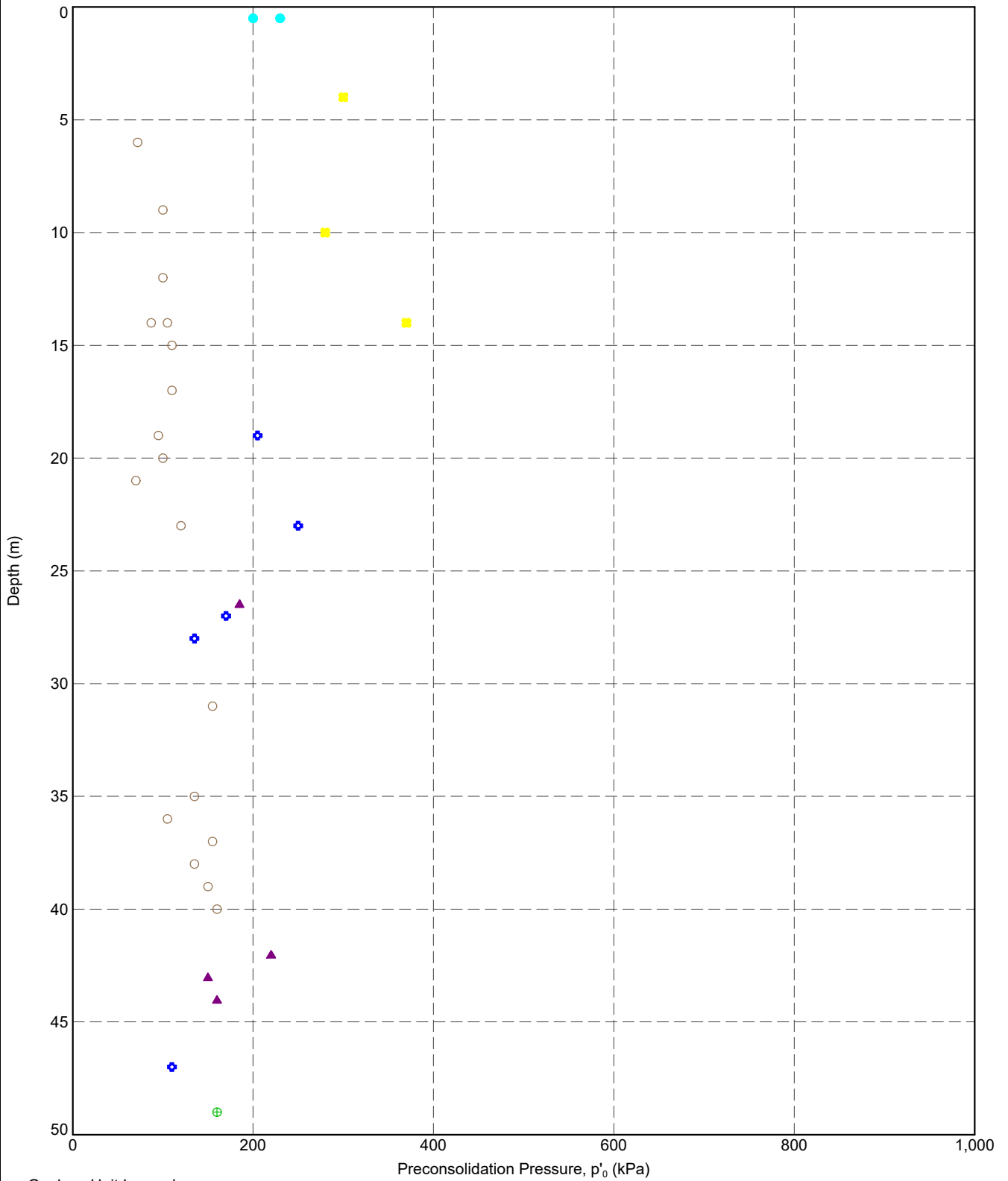
PointID Legend
 ■ ST/1090A
 ⊕ ST/1149A
 ◆ ST/1149B/VST_PZW
 ⊗ ST/1162A/PZW
 ● ST/1162B/VST_PZW



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 p'_0 from 1D Consolidation vs. Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	303

DGD1-P.5.03.1.GLB Graph A.L.S ID CONSOL P.V.S DEPTH BY UNIT DGD1-P.5.03.2.GPJ <<DrawingFile>> 9/9/2020 16:56 10.01.00.11 Datgel Lab and In Situ Tool - DGD1 [Lib: DGD1-P.5.03.2 2020-09-08 Proj: DGD1-01-5.03.1 2020-09-05]



Geology Unit Legend

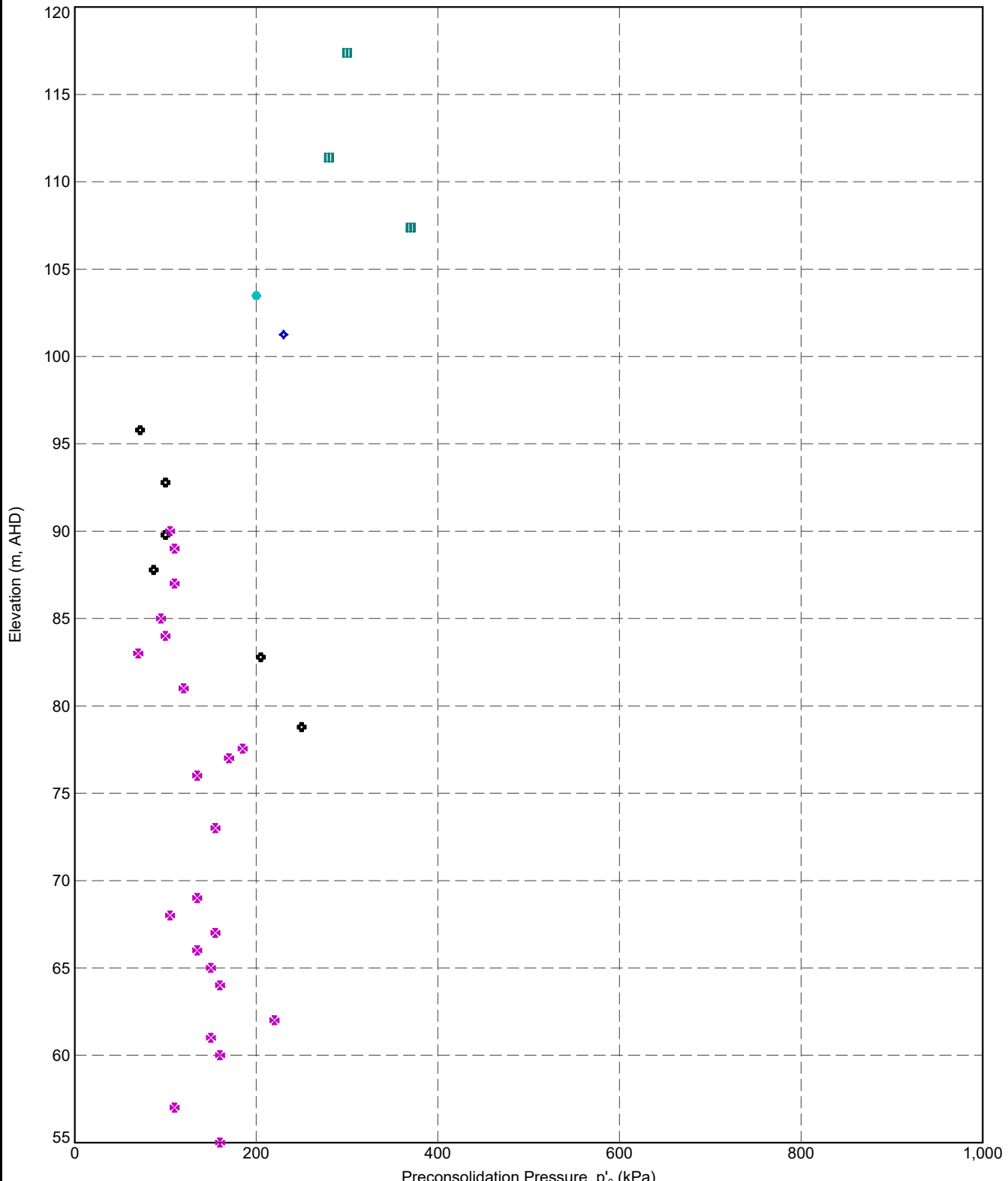
- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- ⊕ F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- ⊕ O(C) - Old Alluvium (Distinctly weathered)
- G(VI) - Granite (rocks & associated soils) Residua...



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 p'_0 from 1D Consolidation vs. Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	304

DGD1-P-5.03.2-LIB-GLB-Graph-A-LS-ID-CONSOL-P0V5-RL-BY-PTID-DGD1-P-5.03.2-GPJ-5-DrawingFiles> 9/9/2020 16:56 10.01.00.11 Datgel Lab and In-Situ Tool_DGD | Lib_DGD1-P-5.03.2-2020-09-08 P1_DGD1-DIST-5.03.1-2020-09-05



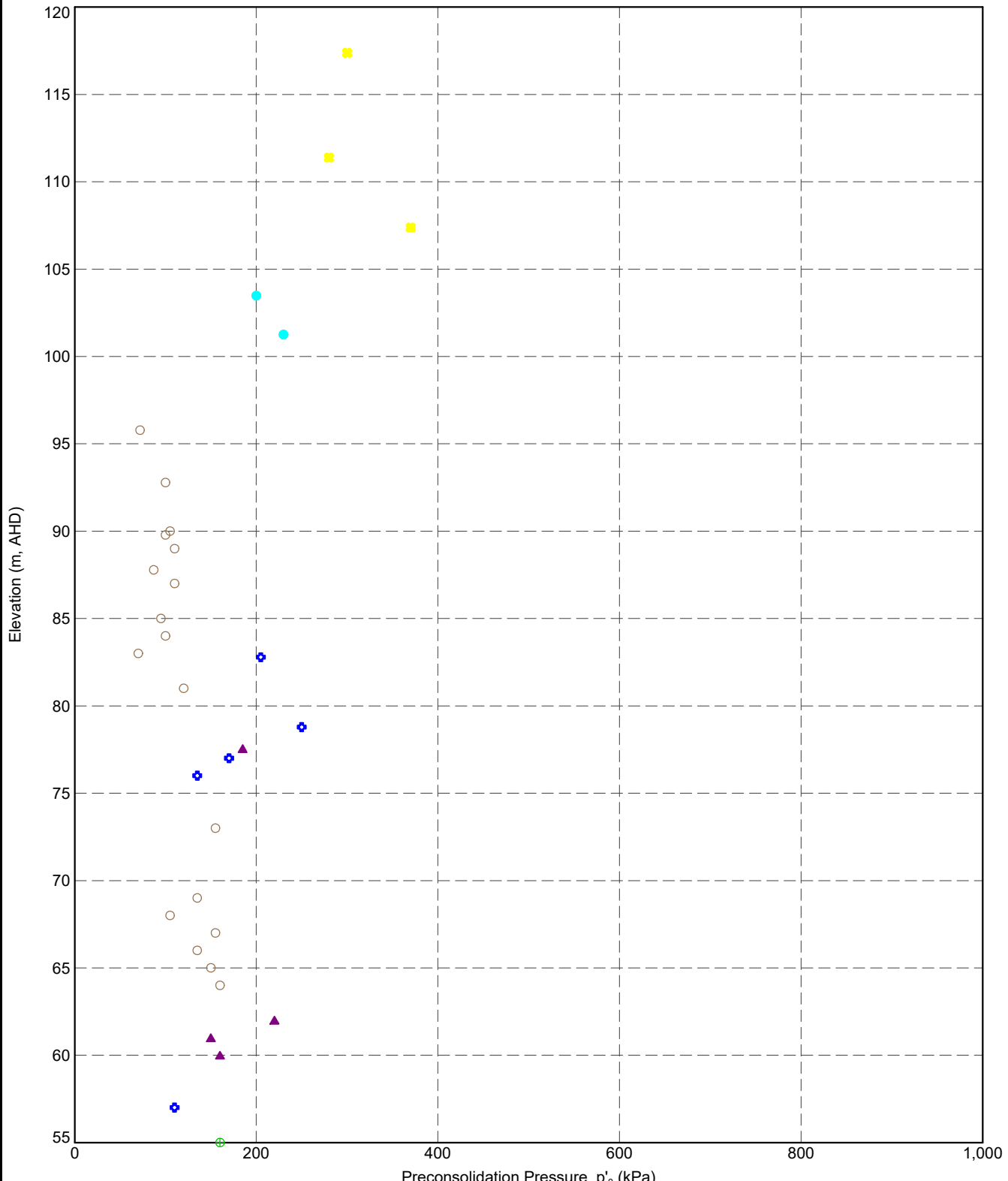
PointID Legend
 ■ ST/1090A
 ⊕ ST/1149A
 ◆ ST/1149B/VST_PZW
 ✕ ST/1162A/PZW
 ● ST/1162B/VST_PZW



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 p'_0 from 1D Consolidation vs. Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	305

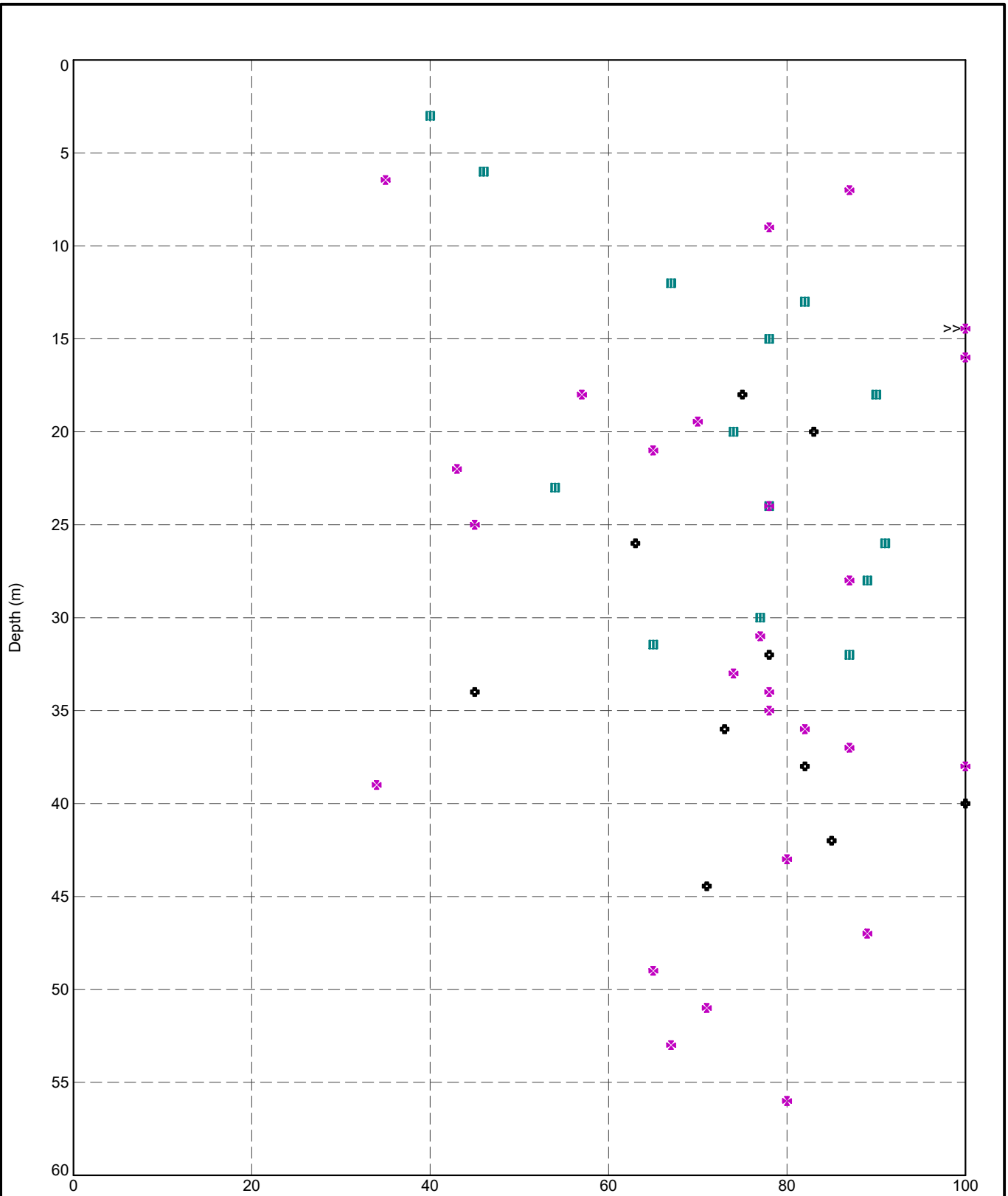
DGD1-P-5.03.1-UB-GLB-Graph-A-LS-ID-CONSOL-POVS-RL-BY-UNIT-DGD1-P-5.03.2-OP-J-
 <<DrawingFile>> 9/9/2020 16:56 10.01.00.11 DatgelLab and In Situ Tool - DGD | Lib: DGD1-P-5.03.2-2020-09-08 P1: DGD1-DLST-5.03.1-2020-09-05



- Geology Unit Legend**
- FILL - BACKFILL
 - ▲ E - Estuarine (Transitional)
 - F2 - Alluvial soil (Non-granular)
 - M - Marine Clay
 - ⊕ O(C) - Old Alluvium (Distinctly weathered)
 - G(VI) - Granite (rocks & associated soils) Residua...

	TITLE	Datgel Engineer 1 Somewhere, World Construction Project p'_0 from 1D Consolidation vs. Elevation	DRAWN	PMW	DATE	9/9/2020
			CHECKED		DATE	9/9/2020
			SCALE	Not To Scale		A4
			PROJECT No	5.03.1	FIGURE No	306

DGD1-P.5.03.2.GPJ - Graph A.1.S.ULTRAXIAL.VS.DEPTH BY PTID: DGD1-P.5.03.2.GPJ --DrawingFile-- 9/9/2020 16:56 10.01.00.11 Datgel Lab and In Situ Test - DGD1 Lib: DGD1-P.5.03.2.2020-09-08.Pjt: DGD1-CJLST_5.03.1_2020-09-05

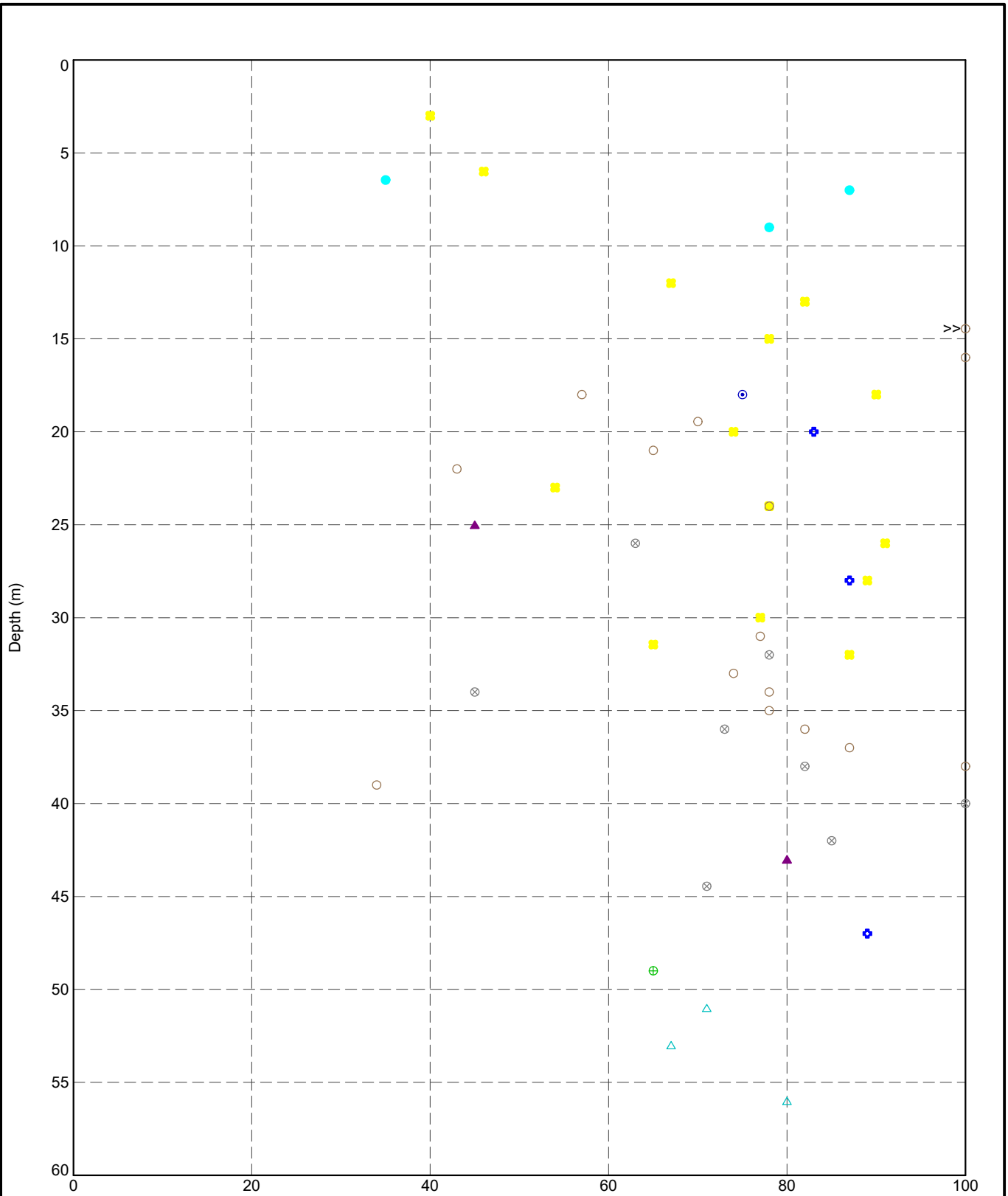


PointID Legend
 ■ ST/1090A
 ◆ ST/1149A
 ✕ ST/1162A/PZW

Un drained Young's Modulus from Triaxial, E_u (MPa)

	<p>TITLE</p> <p style="text-align: center;">Datgel Engineer 1 Somewhere, World Construction Project</p> <p>Un drained Young's Modulus versus Depth</p>	<p>DRAWN PMW</p>	<p>DATE 9/9/2020</p>
		<p>CHECKED</p>	<p>DATE 9/9/2020</p>
		<p>SCALE Not To Scale</p>	<p>A4</p>
		<p>PROJECT No 5.03.1</p>	<p>FIGURE No 307</p>

D:\GDT-P.5.03.1\ULS EUTRIAXIAL VS DEPTH\BY UNIT_DGDT-P.5.03.2\2020-09-09\Proj_DGDT-CL-ST.5.03.1_2020-09-05



Geology Unit Legend

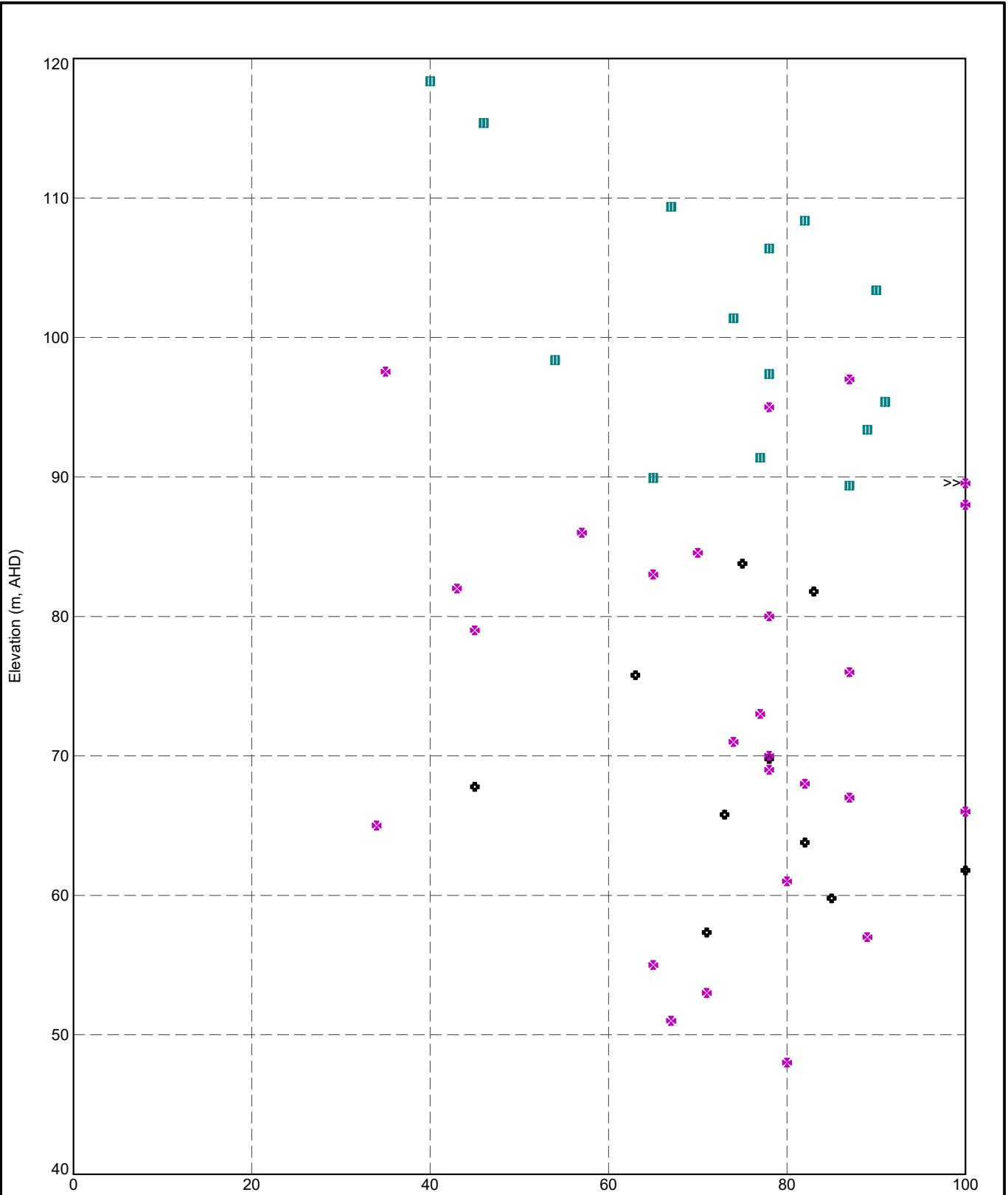
- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- F1 - Alluvial soil (Granular)
- ⊕ F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- △ O(A) - Old Alluvium (Unweathered)
- ⊗ O(B) - Old Alluvium (Partially weathered)
- ⊕ O(C) - Old Alluvium (Distinctly weathered)
- G(VI) - Granite (rocks & associated soils) Residua...



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Undrained Young's Modulus versus Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	308

DGD1-P.03.1.03.2.GPJ -> 9/9/2020 16:56 - 10/01/00.11 Datgel Lab and In Situ Tool - DGD | Lib: DGD1-P.03.2.2020-09-08.P1; DGD1-DLST.03.1.2020-09-05



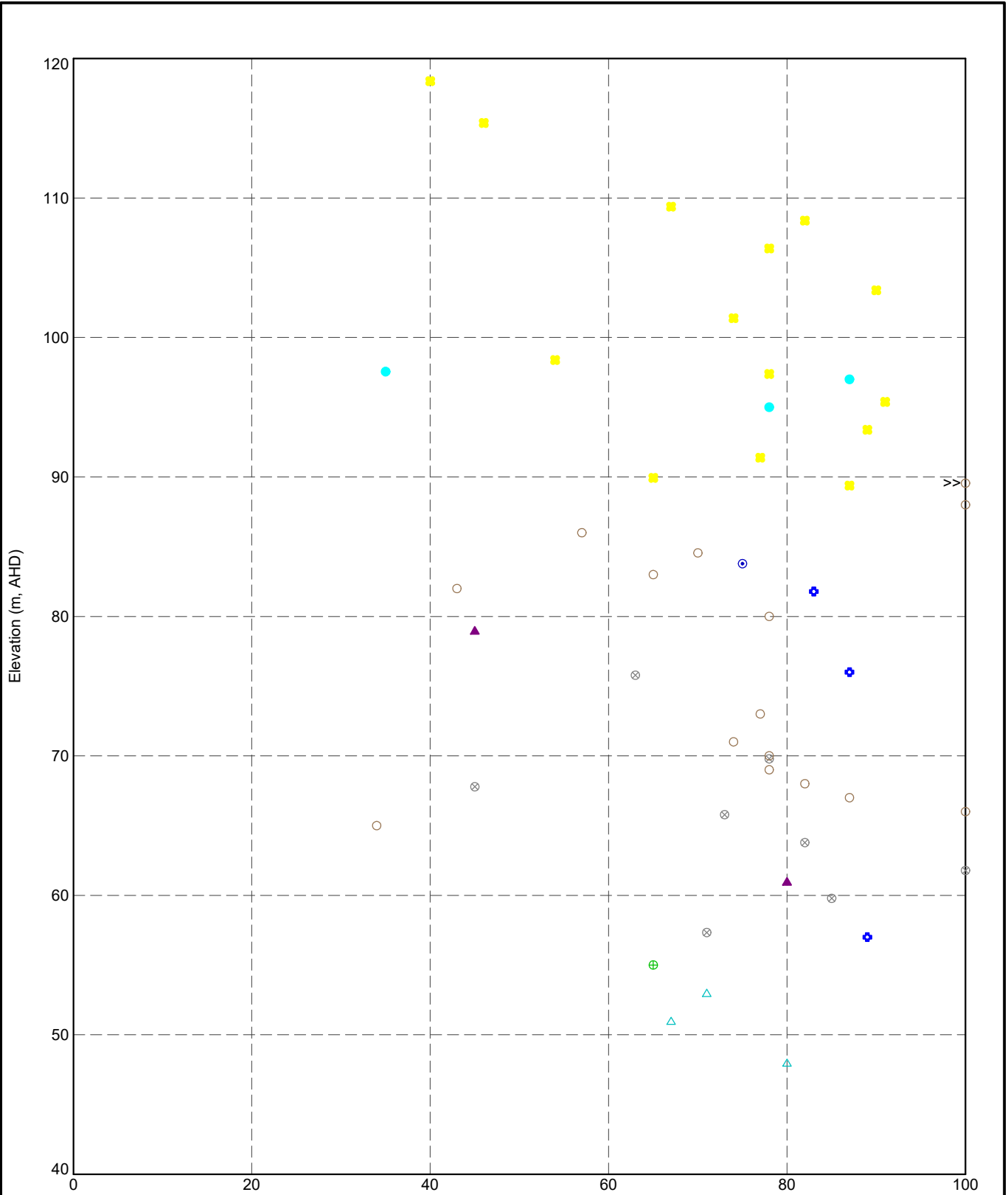
PointID Legend
 ■ ST/1090A
 ⊕ ST/1149A
 ✕ ST/1162A/PZW



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Undrained Young's Modulus versus Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	309

DGD1-P-5.03.1-UB-GLB-Graph-A-1-S-EUTRIAXIAL-VS-R-By-UNIT-DGD1-P-5.03.2-2020-09-08-08-Prj-DGD1-DLST-5.03.1-2020-09-05



Geology Unit Legend

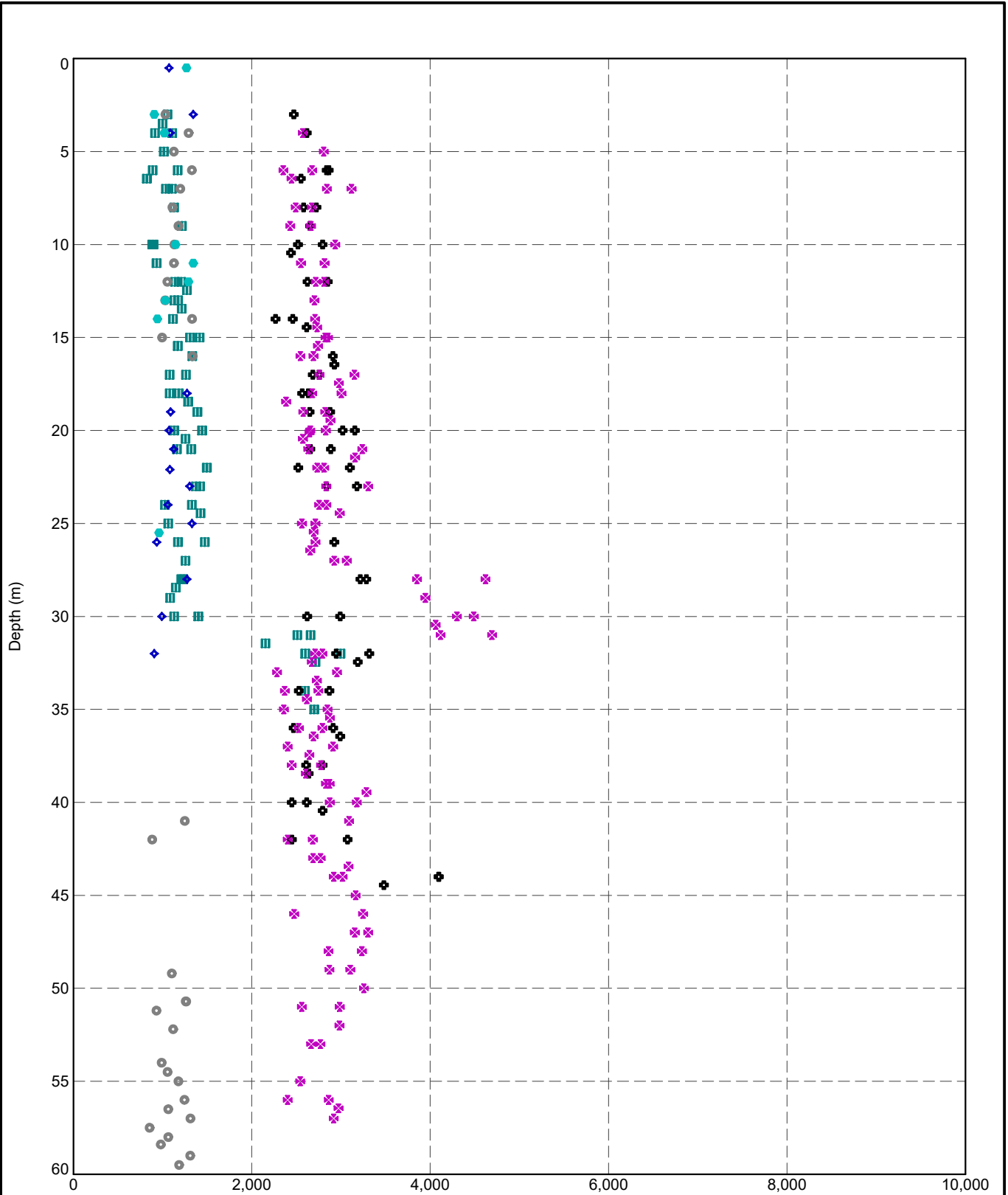
- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- F1 - Alluvial soil (Granular)
- ⊕ F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- △ O(A) - Old Alluvium (Unweathered)
- ⊗ O(B) - Old Alluvium (Partially weathered)
- ⊕ O(C) - Old Alluvium (Distinctly weathered)
- G(VI) - Granite (rocks & associated soils) Residua...



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
Undrained Young's Modulus versus Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	310

DGD1-P.5.03.2.LIB.GLB Graph A.L.S P-WAVE VS DEPTH BY PTID_DGD1-P.5.03.2.GPJ -<DrawingFile> 9/9/2020 16:56:10.01.00.11 Datgel.Lab and In Situ Tool - DGD | Lib: DGD1-P.5.03.2.2020-09-08 Proj: DGD1-DLST.5.03.1.2020-09-05



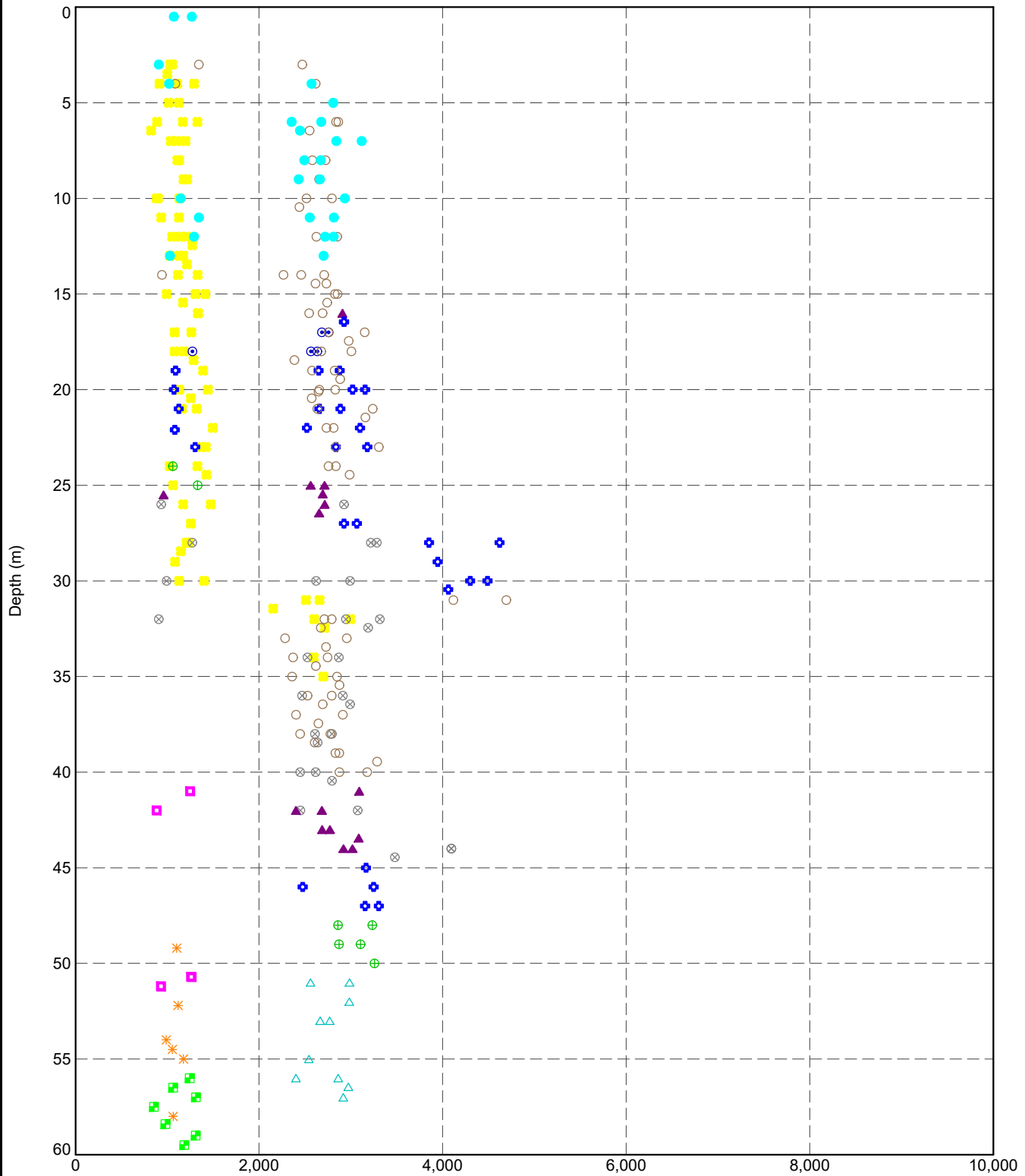
PointID Legend
 ■ ST/1090A
 ● ST/1090B/PRM
 ⊕ ST/1149A
 ◆ ST/1149B/VST_PZW
 ⊗ ST/1162A/PZW
 ● ST/1162B/VST_PZW



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 P-Wave versus Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	311

DGD1-P.5.03.1 L.S. P-WAVE VS DEPTH BY UNIT DGD1-P.5.03.2.GPJ <<DrawingFile>> 9/9/2020 16:56:10.011.001.001.11.Datgel.Lab.and.In.Situ.Tec.-DGD | Lib: DGD1-P.5.03.2.2020-09-08 Proj: DGD1-DIST.5.03.1.2020-09-05



Geology Unit Legend

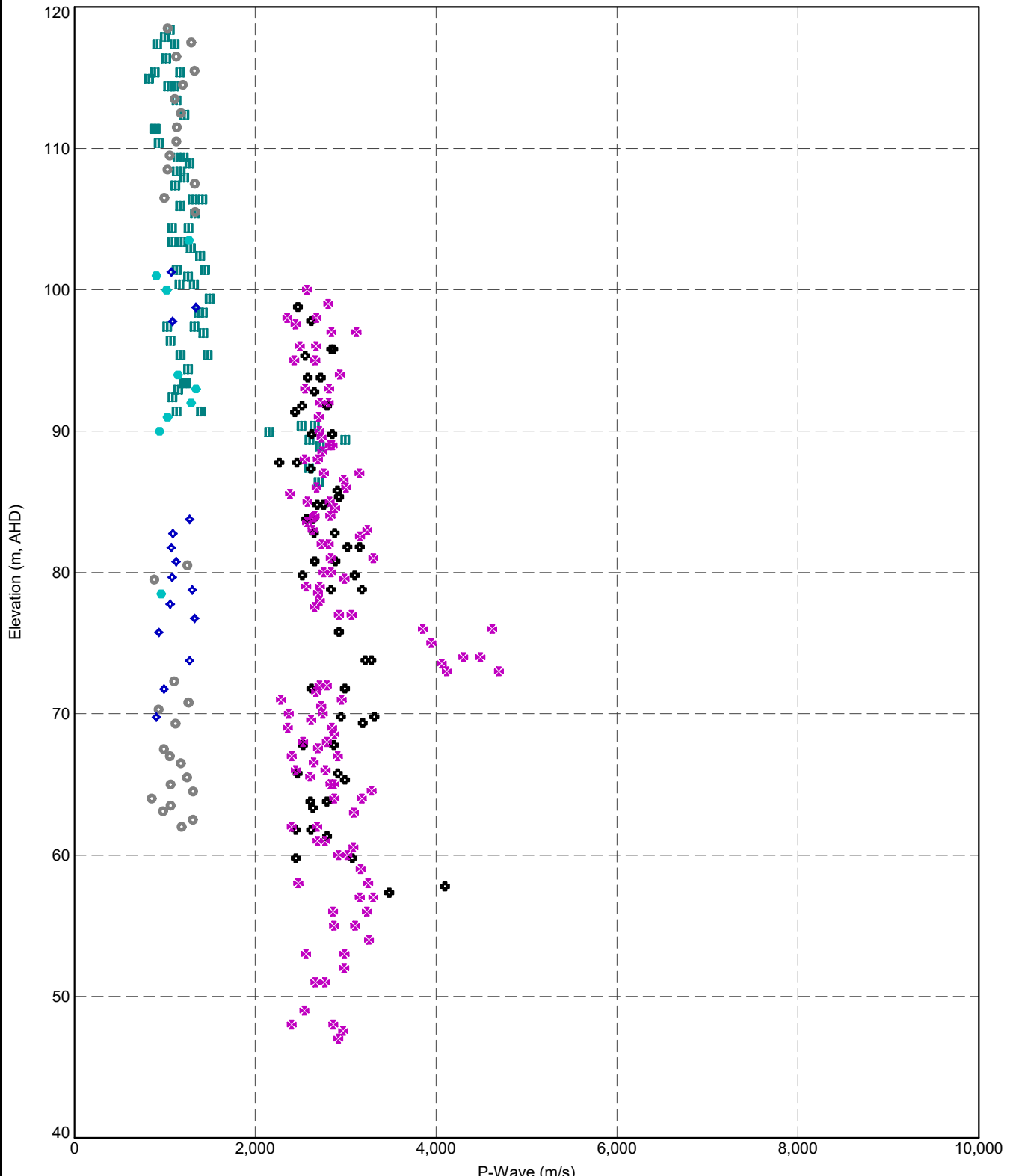
- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- F1 - Alluvial soil (Granular)
- ⊕ F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- △ O(A) - Old Alluvium (Unweathered)
- ⊗ O(B) - Old Alluvium (Partially weathered)
- ⊕ O(C) - Old Alluvium (Distinctly weathered)
- G(VI) - Granite (rocks & associated soils) Residua...
- ✱ G(IV) - Granite (rocks & associated soils) Highly ...
- G(III) - Granite (rocks & associated soils) Modera...
- G(II) - Granite (rocks & associated soils) Slightl...



TITLE
Datgel
Engineer 1
Somewhere, World
Construction Project
P-Wave versus Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	312

DGD1-P.5.03.2.LIB.GLB Graph A.L.S P-WAVE VS RLY FTID DGD1-P.5.03.2.GPJ -<DrawingFile>> 9/9/2020 16:56 10/1/00.11 Datgel Lab and In Situ Tool - DGD [Lib.DGD1-P.5.03.2 2020-09-08 Proj.DGD1-DUST.5.03.1 2020-09-05



- PointID Legend**
- ST/1090A
 - ST/1090B/PRM
 - ⊛ ST/1149A
 - ◆ ST/1149B/VST_PZW
 - ⊠ ST/1162A/PZW
 - ST/1162B/VST_PZW

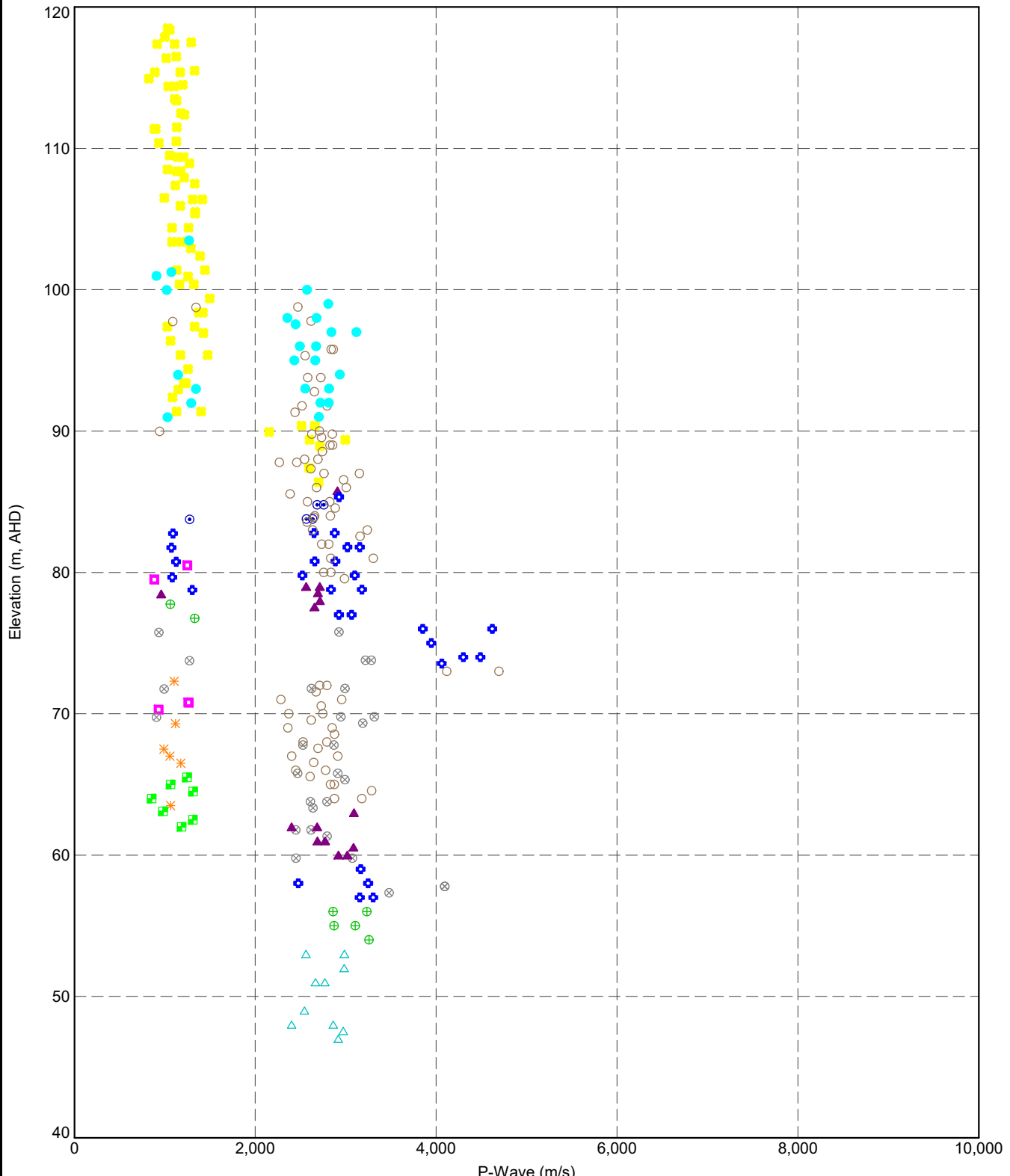


TITLE

Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 P-Wave versus Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	313

DGD1-P.5.03.1.LIB.GLB Graph A.L.S P-WAVE VS RLY UNIT DGD1-P.5.03.2.2020-09-08 P1: DGD1-LS1.5.03.1.2020-09-05
 9/9/2020 16:56 10.01.00.1.1 Datgel Lab and In Situ Tool - DGD [Lib: DGD1-P.5.03.2.2020-09-08 P1: DGD1-LS1.5.03.1.2020-09-05]



Geology Unit Legend

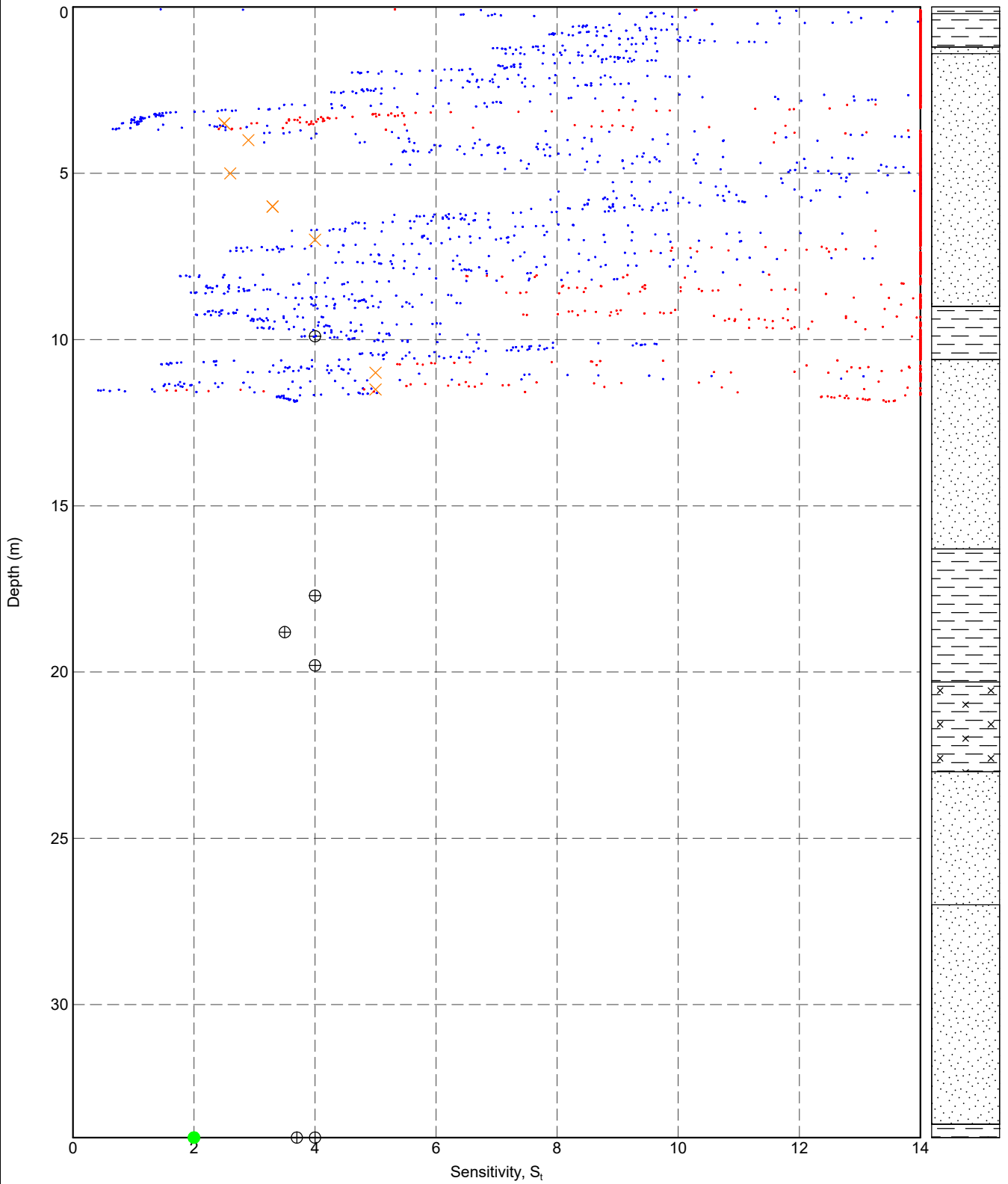
- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- F1 - Alluvial soil (Granular)
- ⊕ F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- △ O(A) - Old Alluvium (Unweathered)
- ⊗ O(B) - Old Alluvium (Partially weathered)
- ⊕ O(C) - Old Alluvium (Distinctly weathered)
- G(VI) - Granite (rocks & associated soils) Residua...
- ✱ G(IV) - Granite (rocks & associated soils) Highly ...
- G(III) - Granite (rocks & associated soils) Modera...
- G(II) - Granite (rocks & associated soils) Slightl...




TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 P-Wave versus Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	314

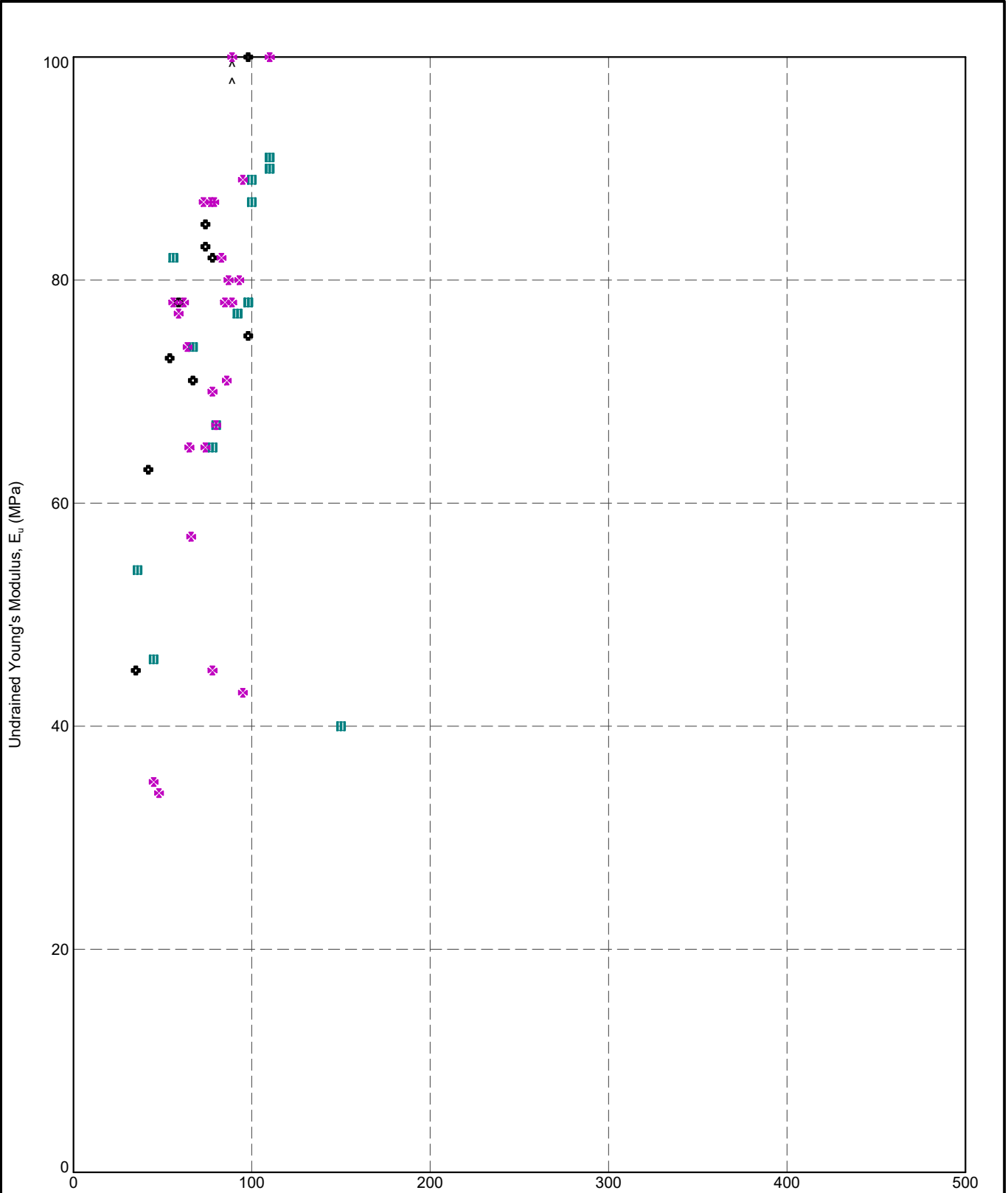
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- ⊕ Derived from Lab Vane
- Derived from Onshore UU-UU Remoulded Triaxial Test
- × Derived from In Situ Vane
- Derived from CPTU with $N_s = 3$
- Derived from CPTU with $N_s = 11$

 Datgel DATA SOLUTIONS Geotechnics • Geoenvironment • Laboratory	TITLE Datgel Engineer 1 Somewhere, World Construction Project Sensitivity versus Depth - [[PointID]]	DRAWN	PMW	DATE	9/9/2020
	CHECKED	DATE	9/9/2020		
	SCALE	Not To Scale			A4
	PROJECT No	5.03.1	FIGURE No	315	

DGD1-P.5.03.2.LIB.GLB Graph A.L.S.U1TRIAxIAL.VS.EU.TRIAXIAL.BY.PTID.DGD1-P.5.03.2.GPJ <-DrawingFile>> 9/9/2020 16:56 10.01.00.11 Datgel Lab and In Situ Test - DGD [Lib: DGD1-P.5.03.2.2020-09-08 Proj: DGD1-QLST.5.03.1.2020-09-05]



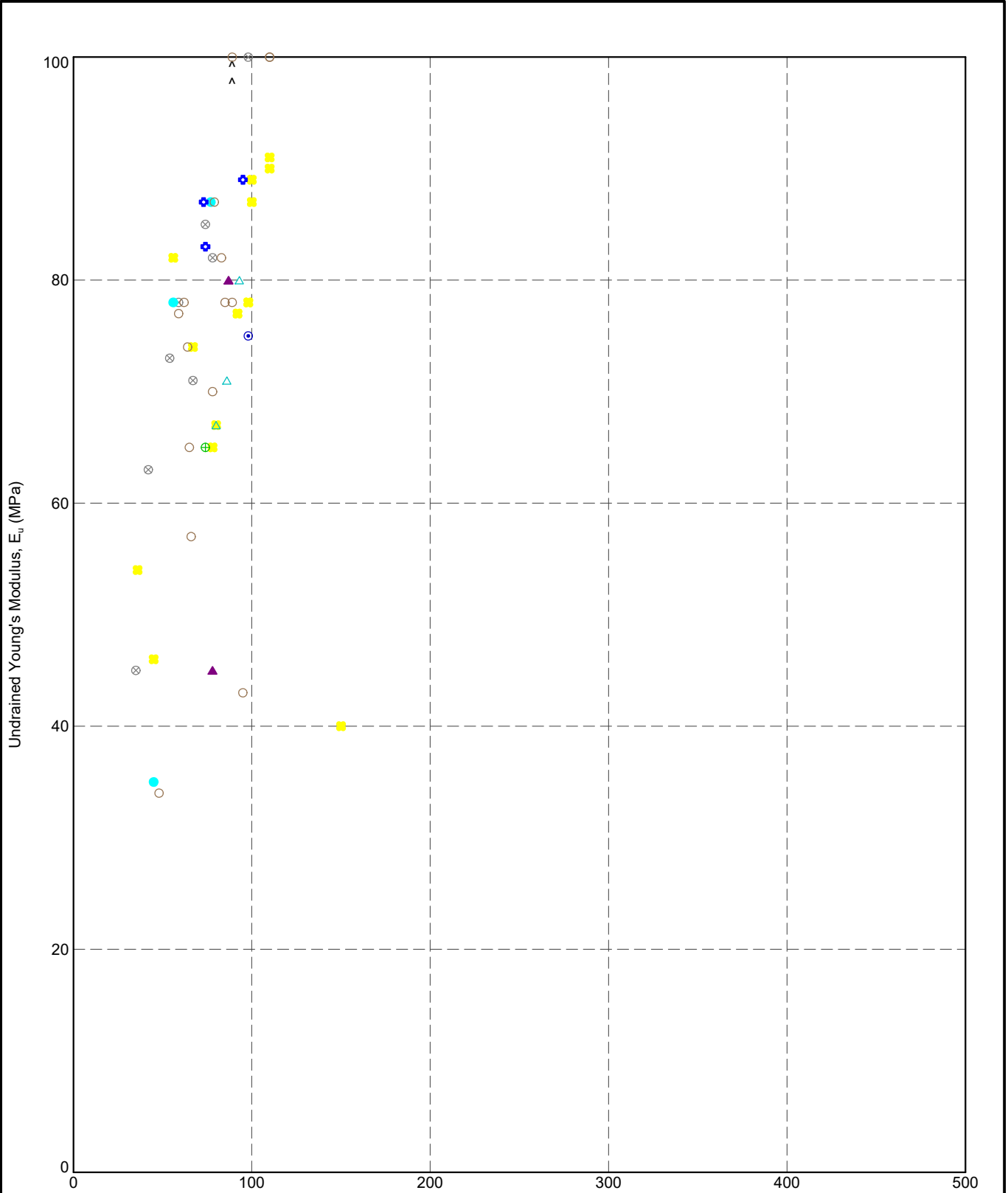
PointID Legend
■ ST/1090A
● ST/1149A
× ST/1162A/PZW



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 s_u vs. E_u

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	316

DGD1-P.5.03.1 SUBTRIAxIAL VS EU TRIAXIAL BY UNIT DGD1-P.5.03.2.GPJ <-DrawingFile> 9/9/2020 16:56 10.01.00.11 Datgel Lab and In Situ Tool - DGD1 [Lib: DGD1-P.5.03.2 2020-09-08 Proj: DGD1-CULST.5.03.1 2020-09-05]



Geology Unit Legend

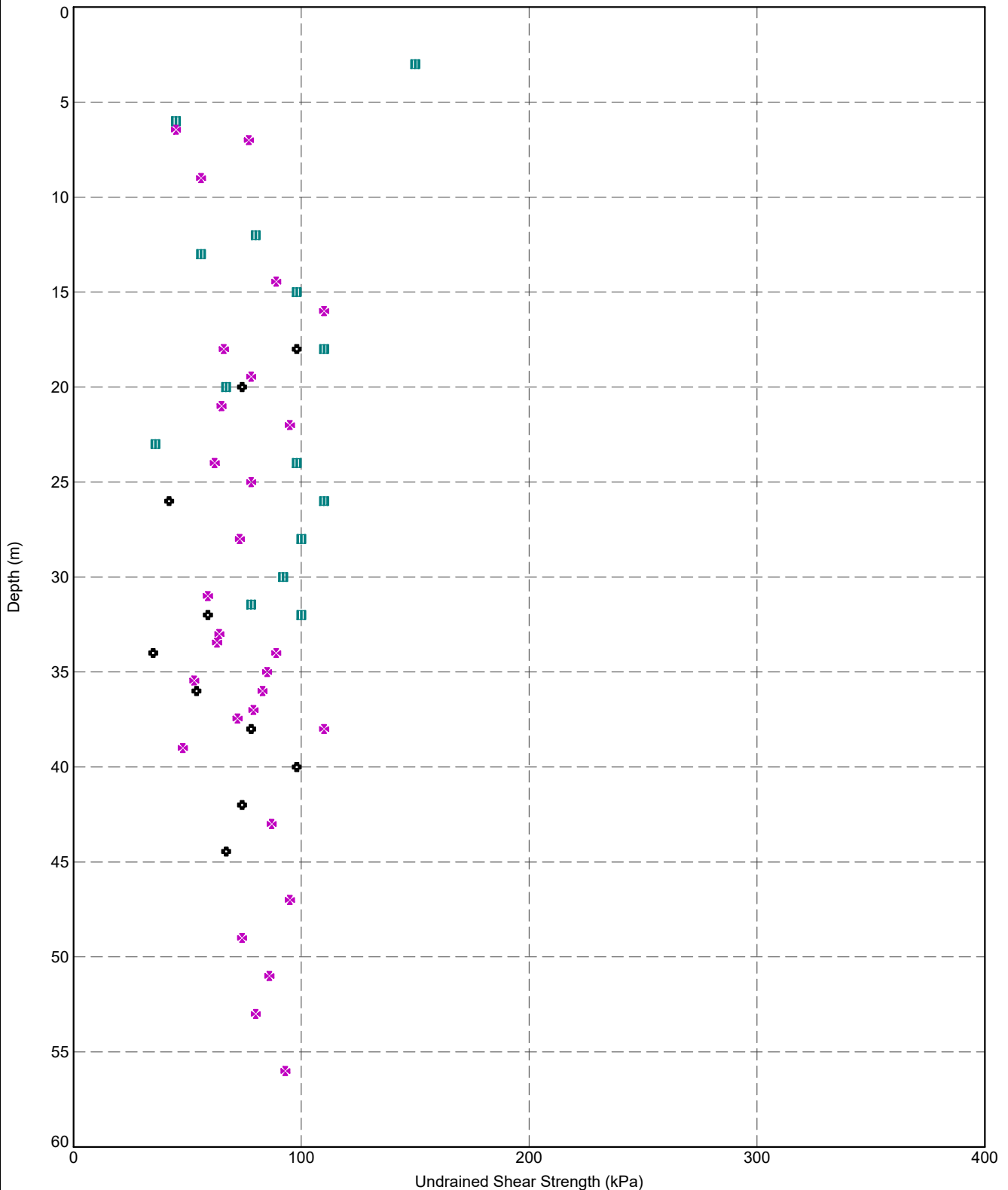
- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- F1 - Alluvial soil (Granular)
- ⊕ F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- △ O(A) - Old Alluvium (Unweathered)
- ⊗ O(B) - Old Alluvium (Partially weathered)
- ⊕ O(C) - Old Alluvium (Distinctly weathered)
- G(VI) - Granite (rocks & associated soils) Residua...



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 s_u vs. E_u

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	317

DGD1-P.5.03.2.LIB.GLB Graph A.L.S SUBJECT TRIAX VS DEPTH BY PTID DGD1-P.5.03.2.GPJ <-DrawingFile> 9/9/2020 16:56 10.01.00.11 Datgel Lab and In Situ Tool - DGD [Lib: DGD1-P.5.03.2 2020-09-08 Proj: DGD1-QJ-ST.5.03.1 2020-09-05]



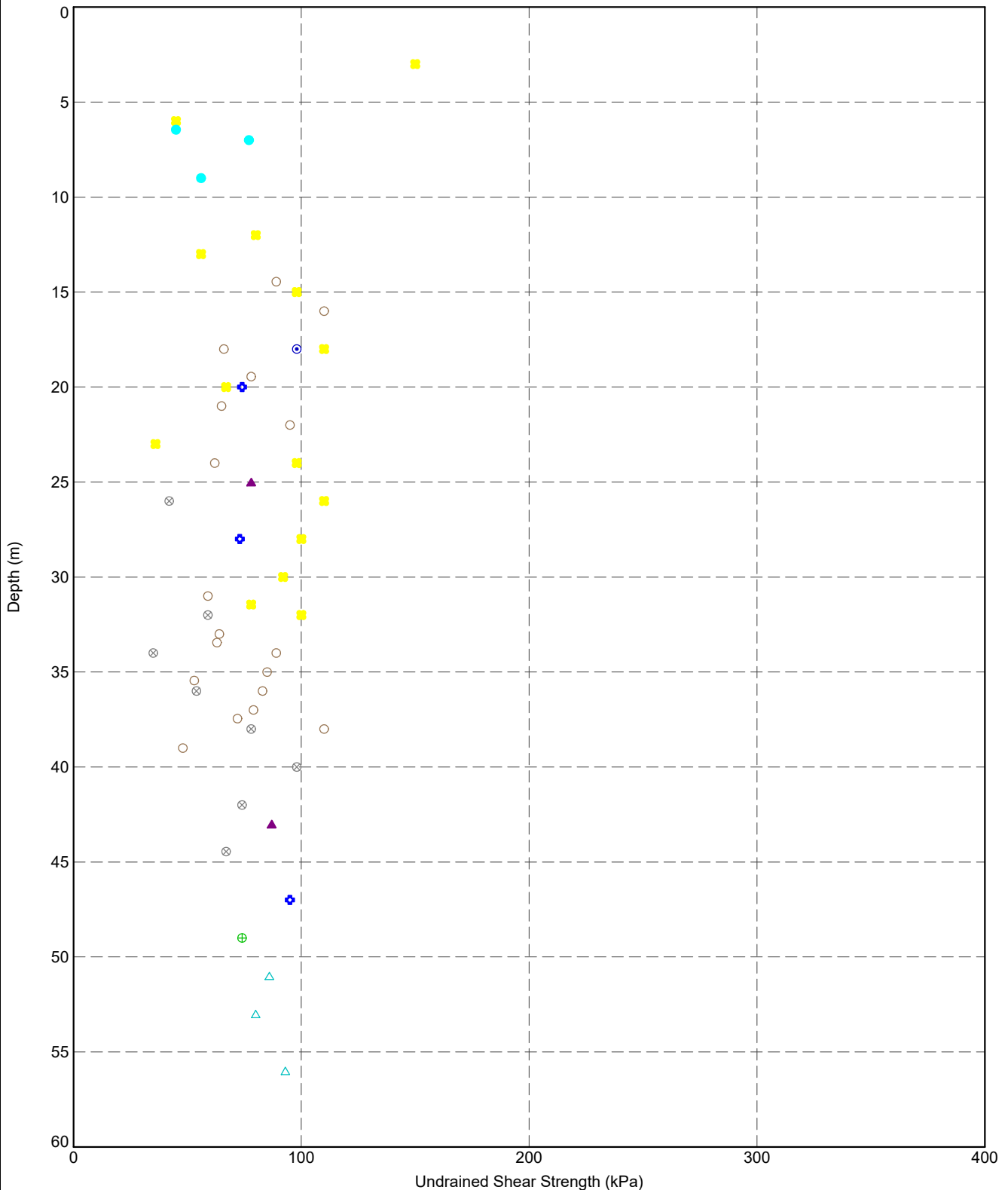
PointID Legend
 ■ ST/1090A
 ● ST/1149A
 ✕ ST/1162A/PZW



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Un drained Shear Strength vs. Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	318

DGD1-P.5.03.2.GPJ - Graph A.L.S SUBJECT TRIAX VS DEPTH BY UNIT DGD1-P.5.03.2.GPJ -<DrawingFile>> 9/9/2020 16:57 10.01.00.11 Datgel Lab and in Situ Tool - DGD1 [Lib:DGD1-P.5.03.2.2020-08-08 Pjt_DGD1-DLST_5.03.1.2020-09-05]



Geology Unit Legend

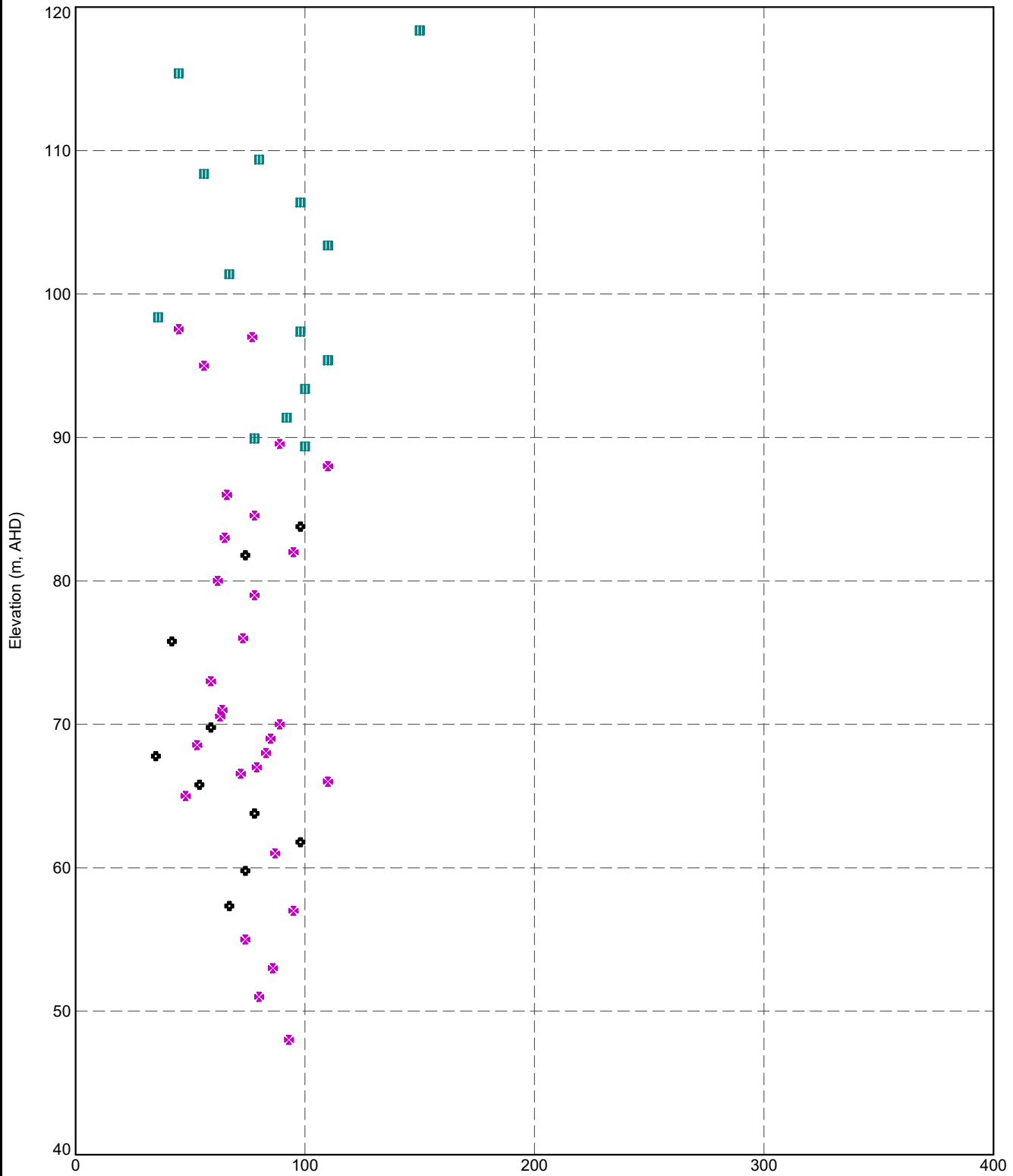
- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- ⊙ F1 - Alluvial soil (Granular)
- ⊕ F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- △ O(A) - Old Alluvium (Unweathered)
- ⊗ O(B) - Old Alluvium (Partially weathered)
- ⊕ O(C) - Old Alluvium (Distinctly weathered)
- G(VI) - Granite (rocks & associated soils) Residua...



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Undrained Shear Strength vs. Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	319

DGD1-P.5.03.2.GLB.Graph A.L.S.UJEFFECT TRIAX.VS.RL.BY.PTID.DGD1-P.5.03.2.GP.J.<Domingo>> 9/9/2020 16:57 10.01.00.11.Datgel.Lab.and.In.Situ.Tool.DGD1-P.5.03.2.2020-09-08.FH.DGD1-DLST.5.03.1.2020-09-05



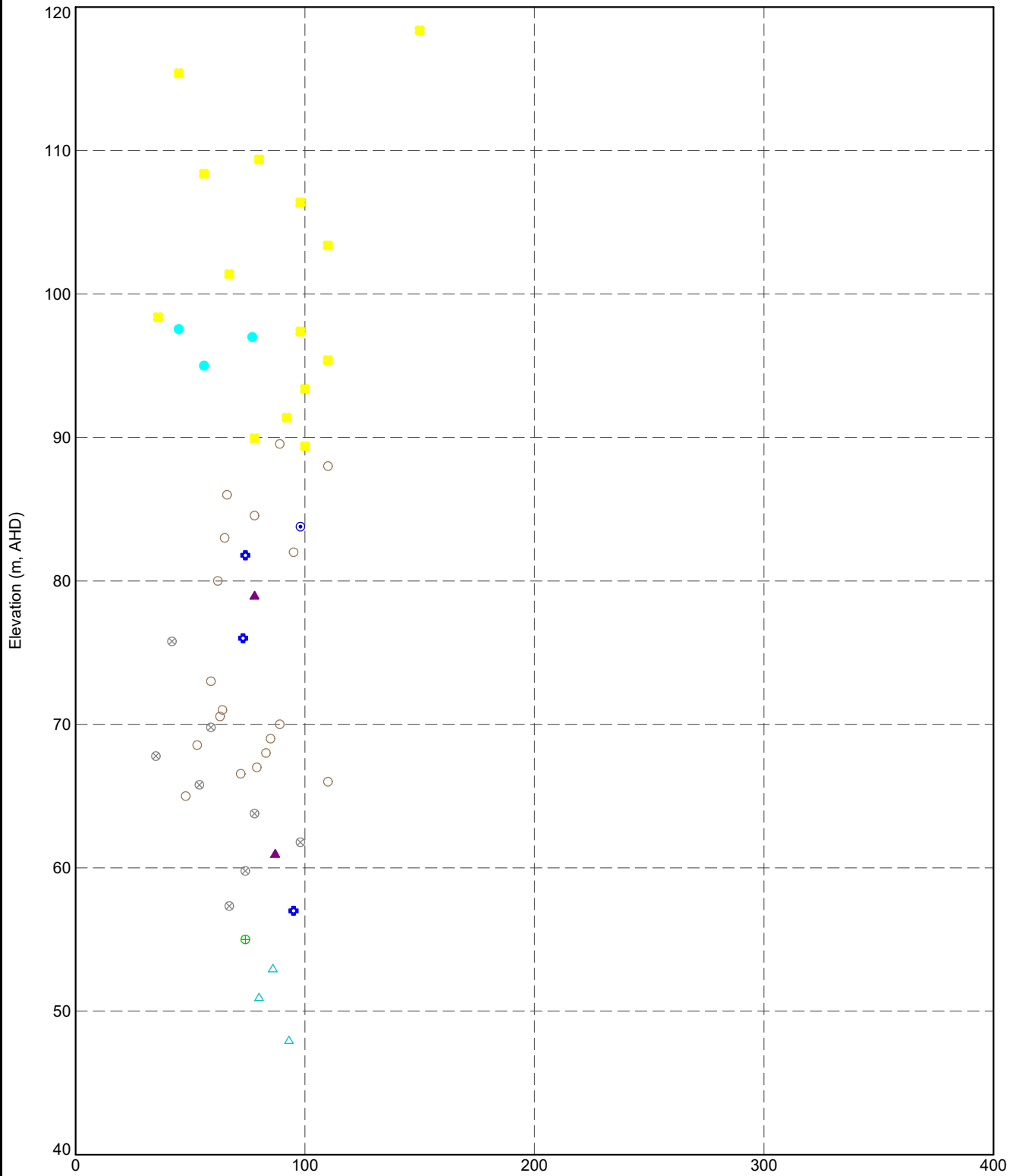
PointID Legend
■ ST/1090A
● ST/1149A
× ST/1162A/PZW



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Undrained Shear Strength vs. Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	320

DGD1-F-5.03.1.GLB.GLB Graph A.L.S.U.EFFECT TRIAX VS RL BY UNIT DGD1-F-5.03.2.GPJ <DrawingFile> 9/9/2020 16:57 10.01.00.11 Datgel Lab and In Situ Tool_DGD1-F-5.03.2.2020-09-08.FH; DGD1-DLST 5.03.1.2020-09-05



Geology Unit Legend

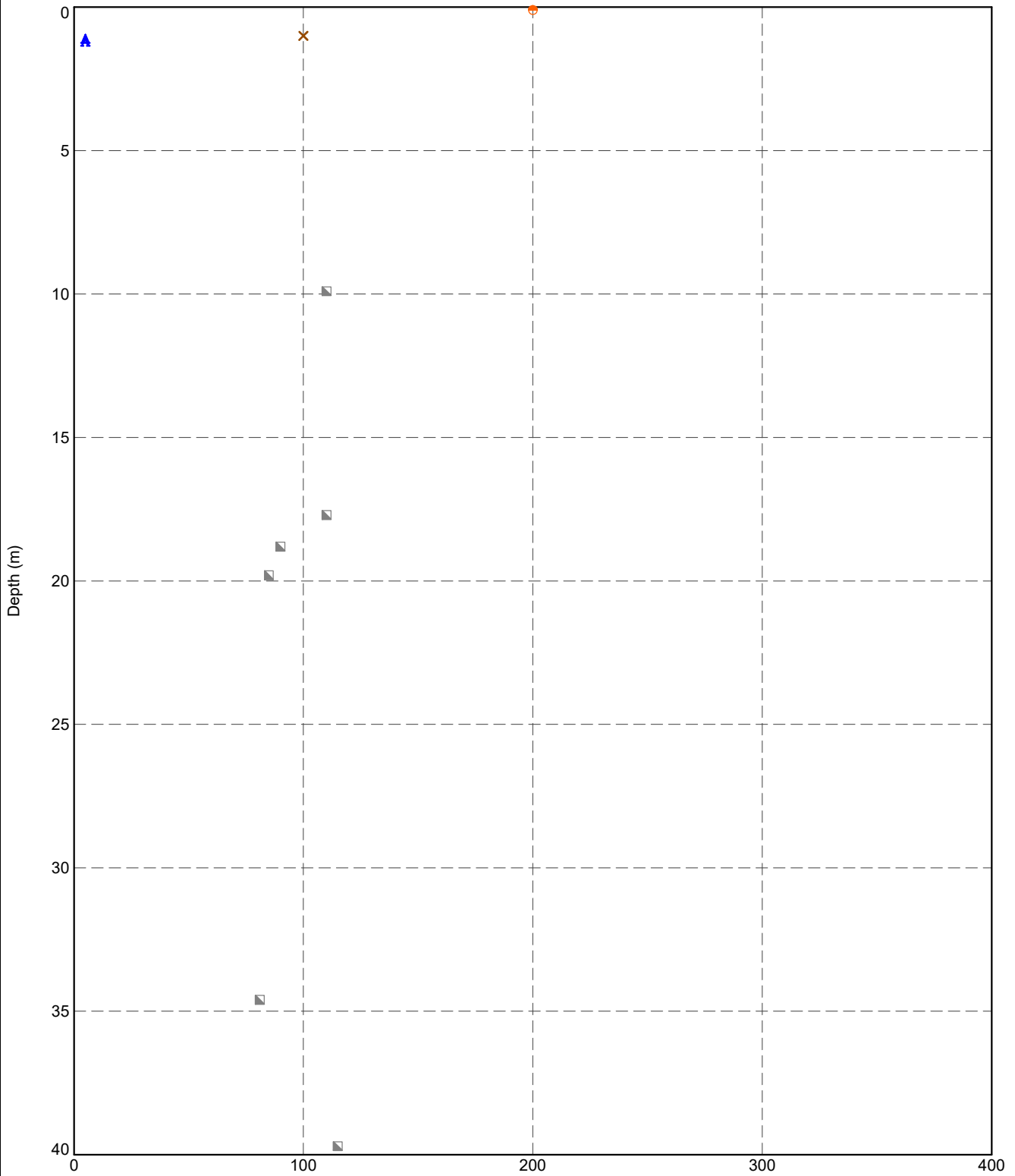
- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- F1 - Alluvial soil (Granular)
- ⊕ F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- △ O(A) - Old Alluvium (Unweathered)
- ⊗ O(B) - Old Alluvium (Partially weathered)
- ⊕ O(C) - Old Alluvium (Distinctly weathered)
- G(VI) - Granite (rocks & associated soils) Residua...



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
Undrained Shear Strength vs. Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	321

DGD1-P.5.03.1.LIB.GLB_VANE_VS_DEPTH BY PTID DGD1-P.5.03.2.GPJ <DrawingFile> 9/9/2020 16:57 10.01.00.1.1 Datgel Lab and In Situ Tool - DGD | Lib: DGD1-P.5.03.2.2020-09-08 Fk: DGD1-DIST 5.03.1.2020-09-05



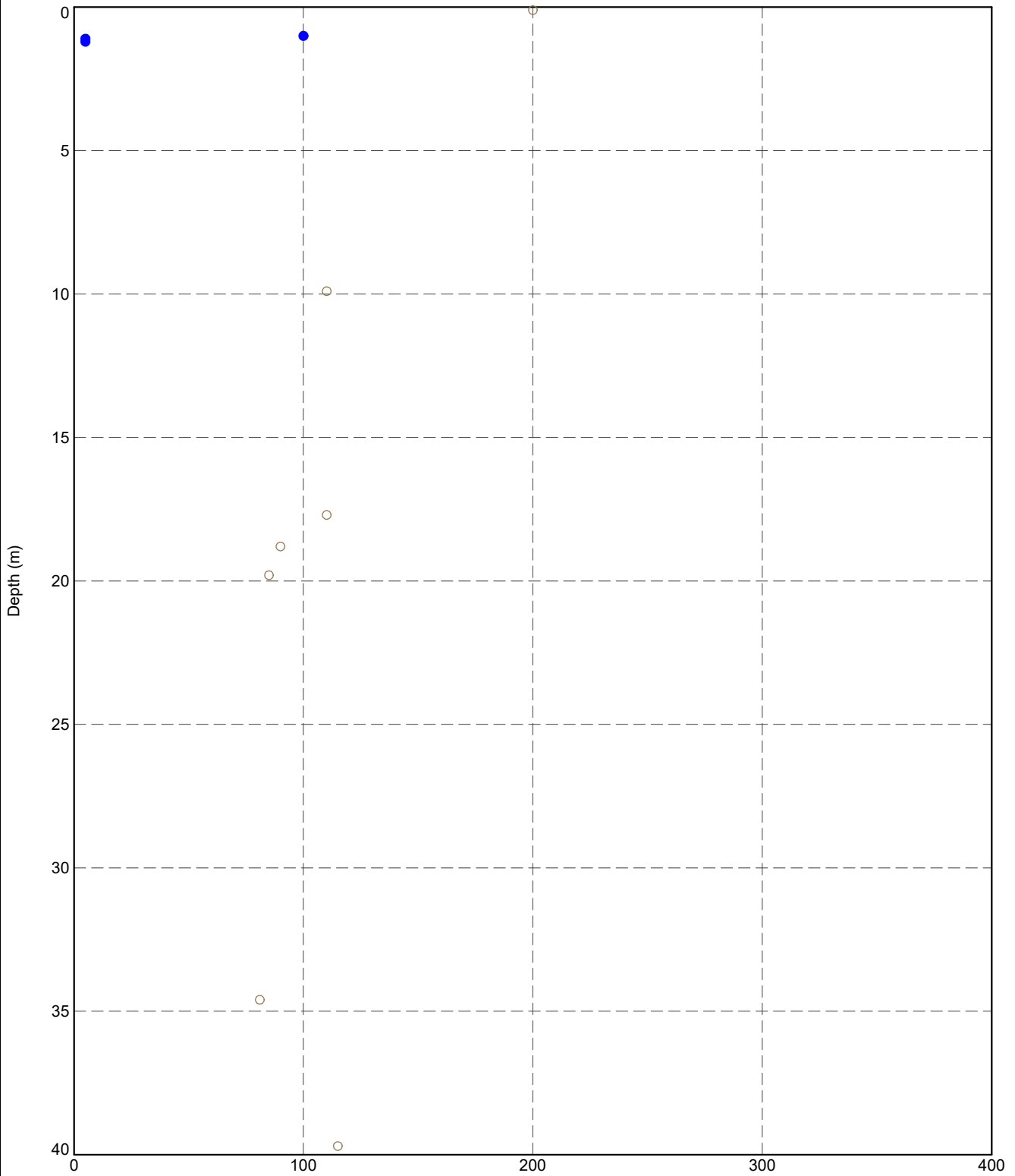
- PointID Legend
- V-BH Offshore
 - × V-DGDT-Golden_Point
 - V-DLST-Golden
 - ▲ V-Lab-Val



TITLE
Datgel
Engineer 1
Somewhere, World
Construction Project
Undrained Shear Strength vs. Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	322

DGD1-P-5.03.2-UB-2-09-08-FH; DGD1-P-5.03.2-2020-09-08-FH; DGD1-DIST-5.03.1-2020-09-08



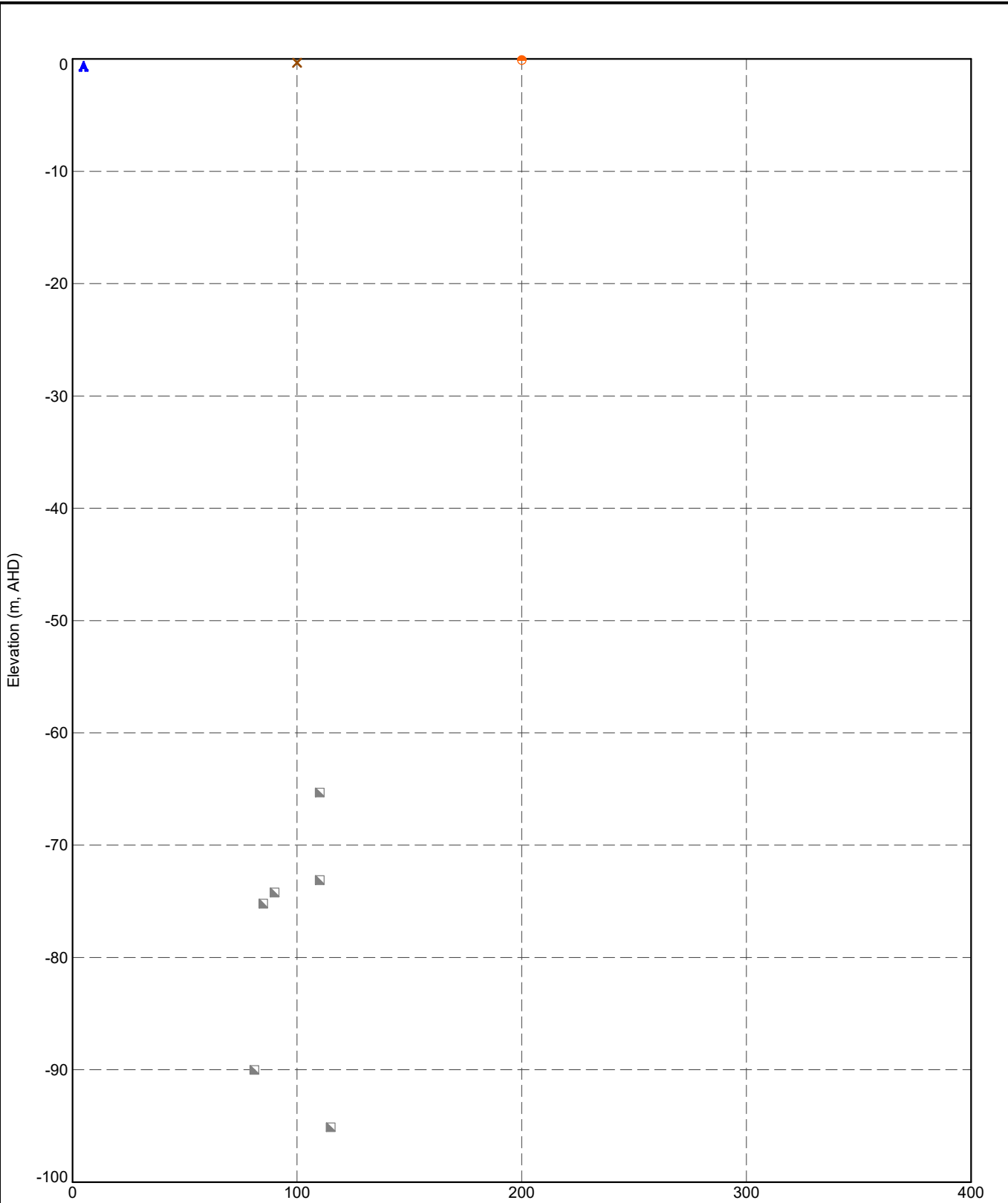
Geology Unit Legend
 ● A - Unit A
 ○ M - Marine Clay



TITLE
Datgel
Engineer 1
Somewhere, World
Construction Project
Undrained Shear Strength vs. Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	323

DGDTP.5.03.2.010.00.11.Datgel Lab and In Situ Tool - DGD [Lib: DGDTP.5.03.2.2020.06.08.Pit: DGDTP.5.03.1.2020.09.05



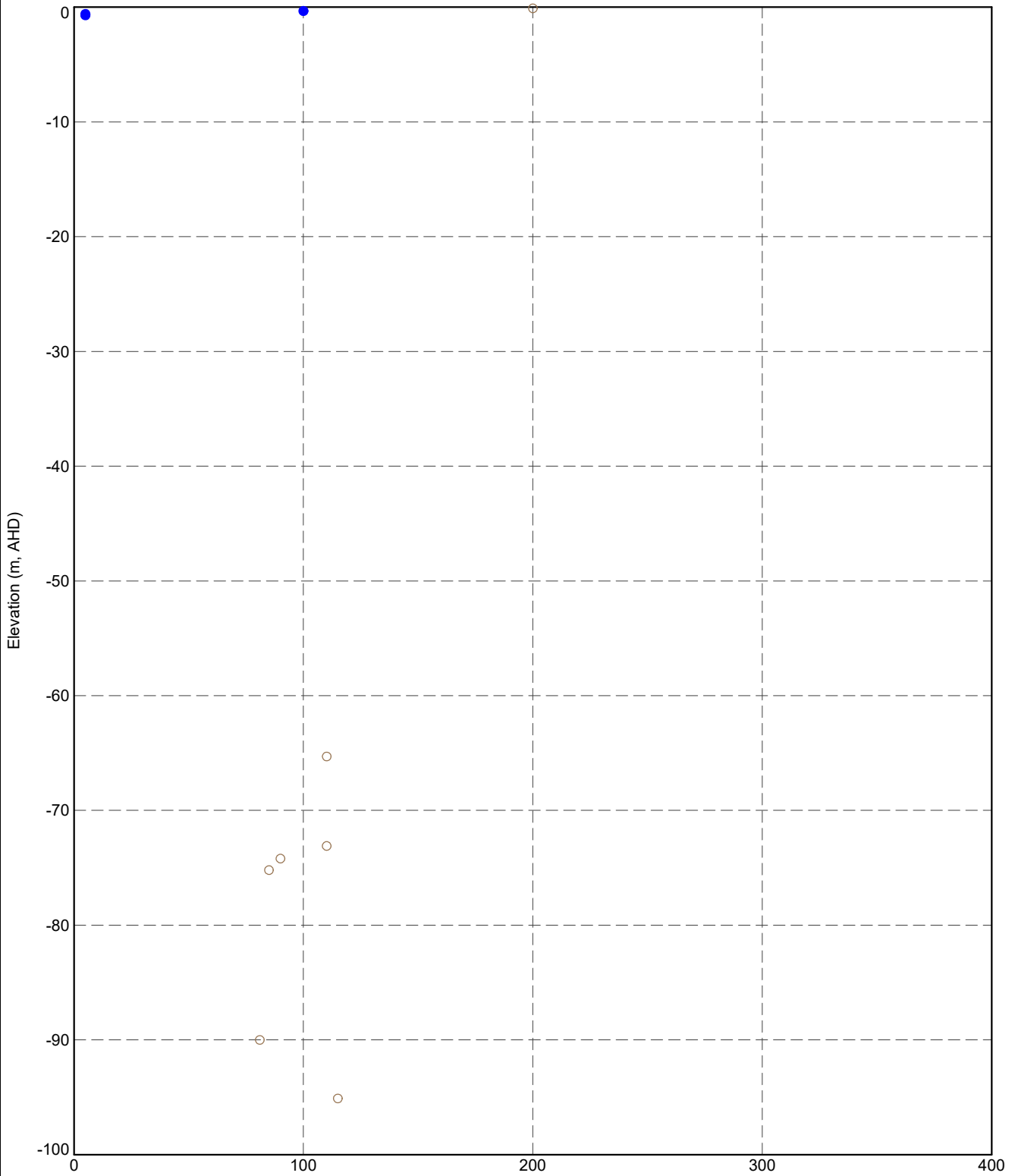
PointID Legend
 ■ V-BH Offshore
 ✕ V-DGGT-Golden_Point
 ● V-DLST-Golden
 ▲ V-Lab-Val



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Undrained Shear Strength vs. Elevation

DRAWN PMW	DATE 9/9/2020
CHECKED	DATE 9/9/2024
SCALE Not To Scale	A4
PROJECT No 5.03.1	FIGURE No 324

DGDTP.5.03.1.GLB Graph A.L.S.SU.LAB.VANE.VS.RL.BY UNIT DGDTP.5.03.2.GPJ --DrawingFile--> 9/9/2020 16:57:10.01.00.11 Datgel Lab and In Situ Tool - DGD (Lib: DGDTP.5.03.2.2020-09-08 Proj: DGDTP.5.03.1.2020-09-05)



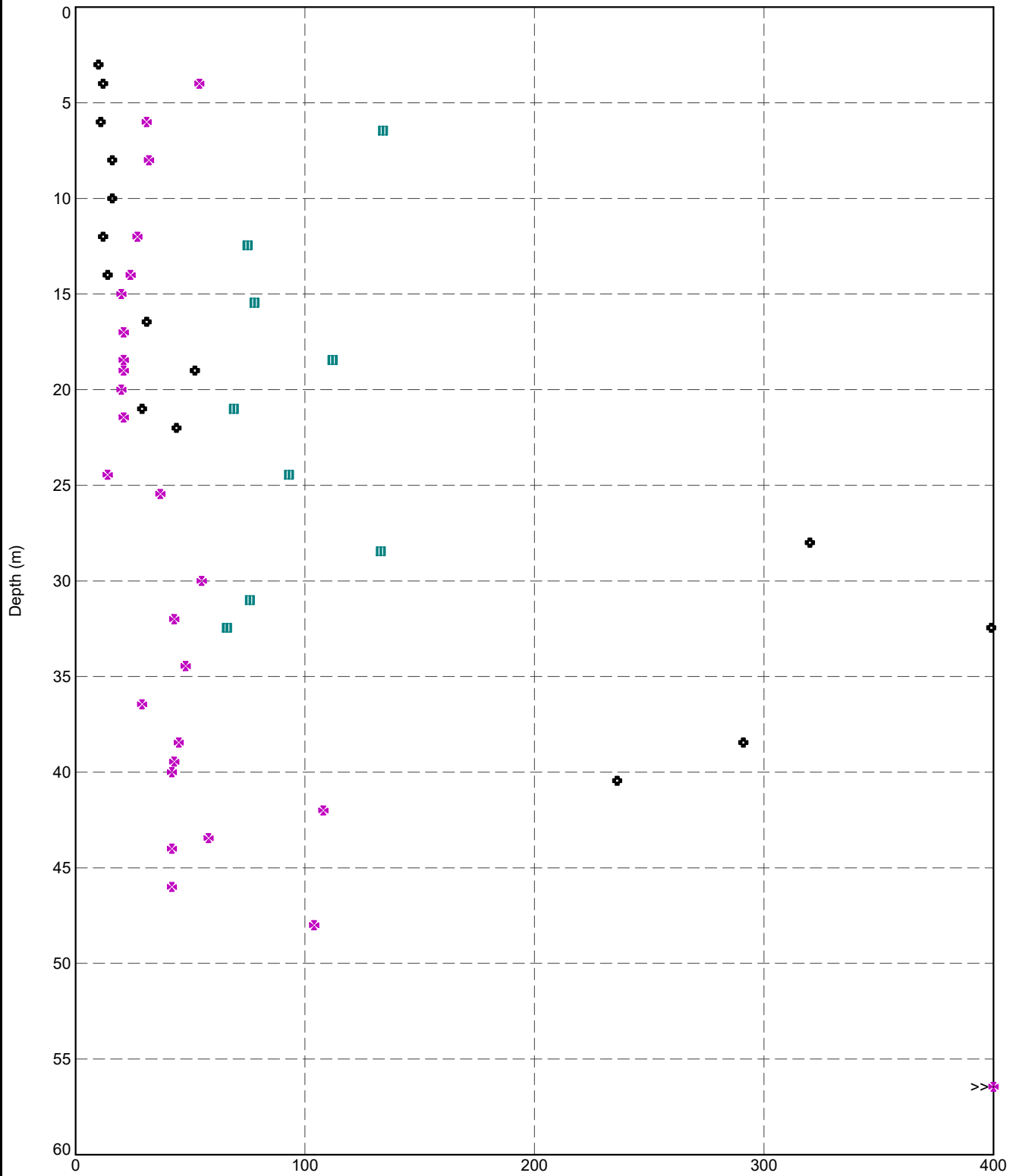
Geology Unit Legend
 ● A - Unit A
 ○ M - Marine Clay



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Undrained Shear Strength vs. Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	325

DGD1-P.5.03.2.LIB.GLB_Graph_A.L.S.UUU.VS.DEPTH.BY.PTID_DGD1-P.5.03.2.GPJ --DrawingFile--> 9/9/2020 16:57 10.01.00.11 Datgel Lab and In Situ Tool - DGD1-P.5.03.2.2020-09-09.P1.DGD1-CL-ST.5.03.1.2020-09-05



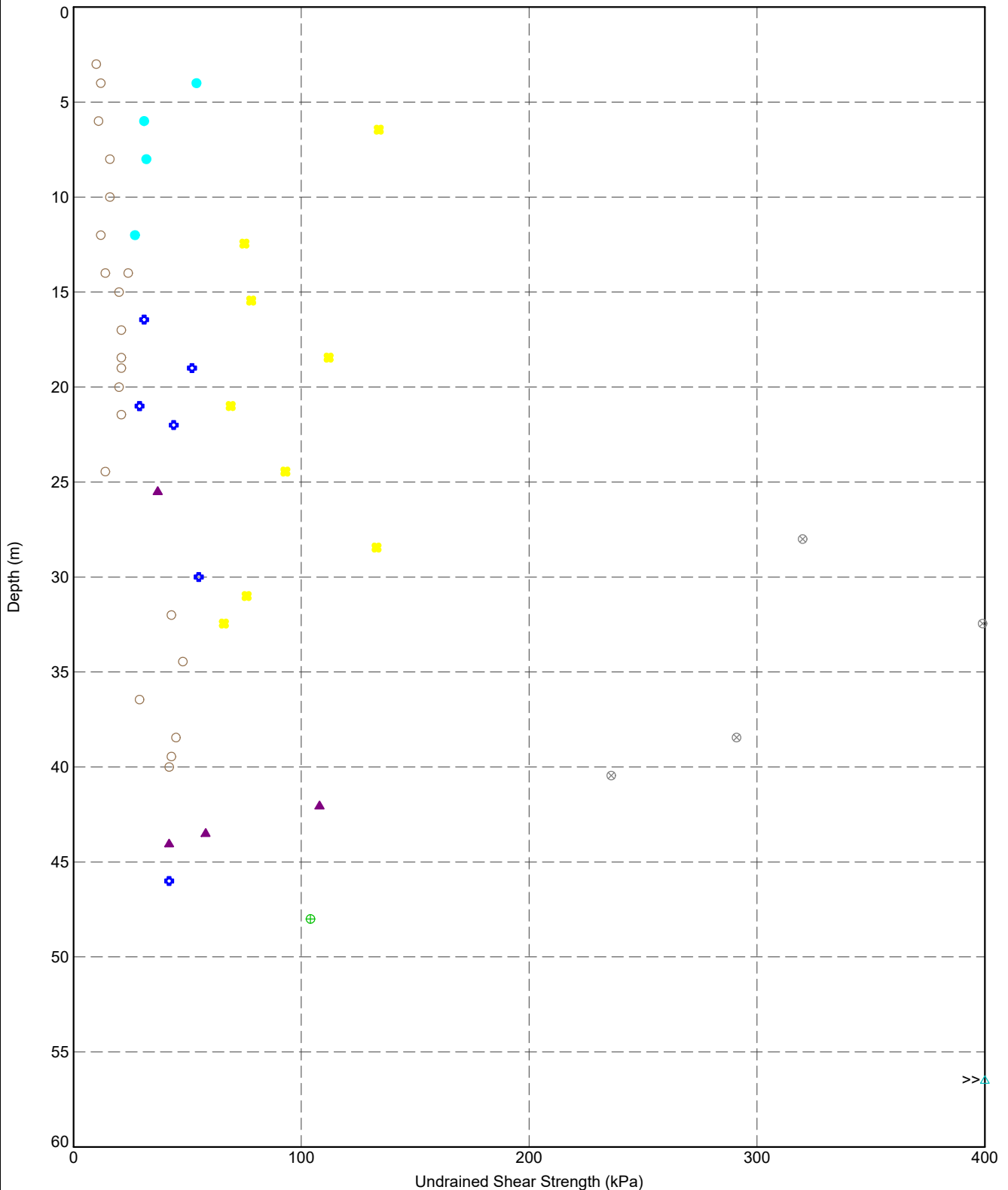
PointID Legend
■ ST/1090A
● ST/1149A
× ST/1162A/PZW



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Un drained Shear Strength vs. Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	326

DGD1-P.5.03.2.GPJ - Drawing File - 9/9/2020 16:57:10.01.00.11 Datgel Lab and In Situ Tool - DGD [Lib: DGD1-P.5.03.2.2020-09-09.Pjt] DGD1-CL1 ST 5.03.1 2020-09-05



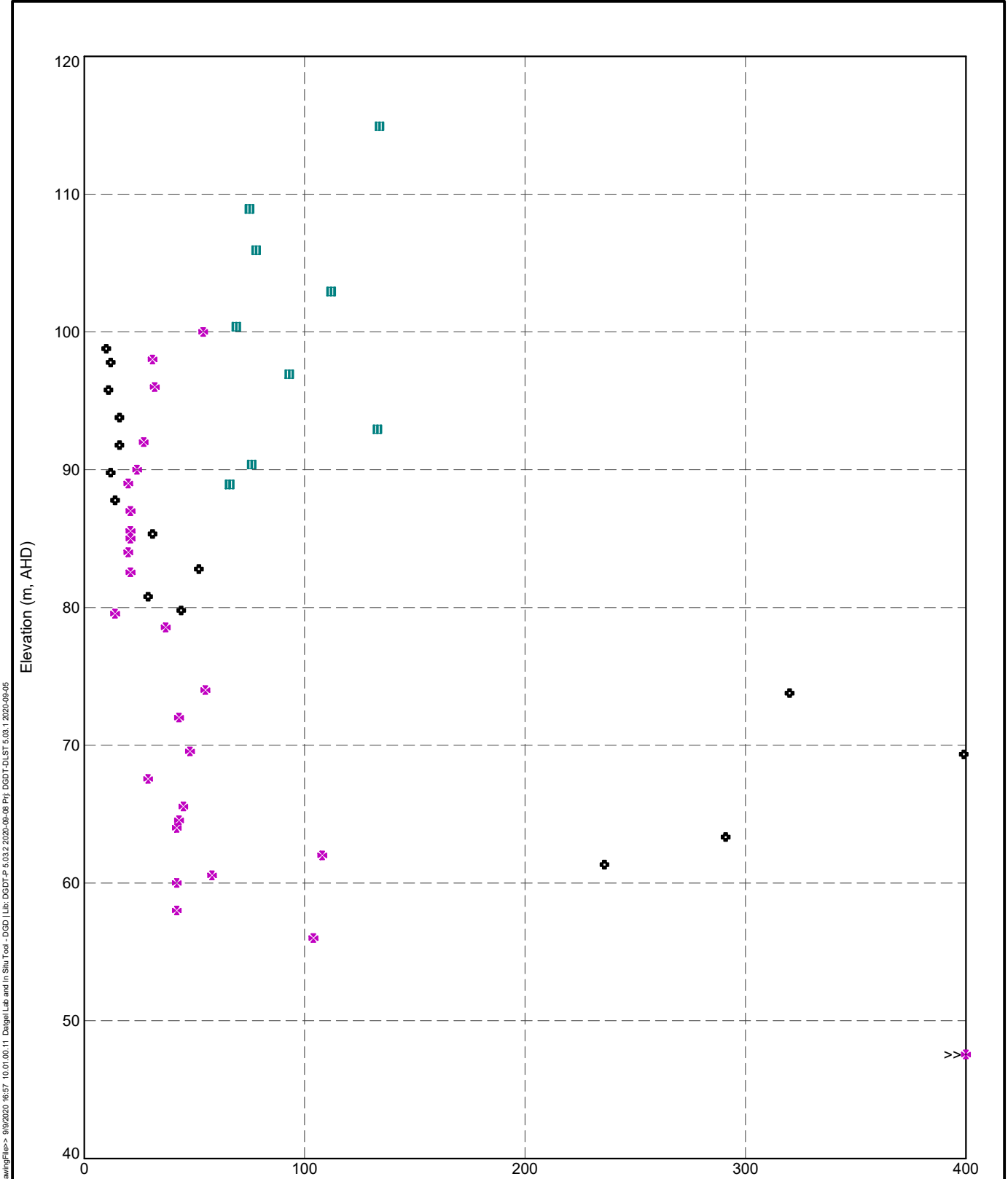
Geology Unit Legend

- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- ◆ F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- △ O(A) - Old Alluvium (Unweathered)
- ⊗ O(B) - Old Alluvium (Partially weathered)
- ⊕ O(C) - Old Alluvium (Distinctly weathered)
- G(VI) - Granite (rocks & associated soils) Residua...



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Un drained Shear Strength vs. Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	327



DGD1-P.5.03.2.GLB_Graph_A.L.S.U.U.V.S.RL.BY.PTID.DGD1-P.5.03.2.GPJ -<DrawingFile> 9/9/2020 16:57:10.01.00.11 Datgel.Lab.and.In.Situ.Tes.DGD [Lab.DGD1-P.5.03.2.2020-09-08 Proj.DGD1-DIST.5.03.1.2020-09-05

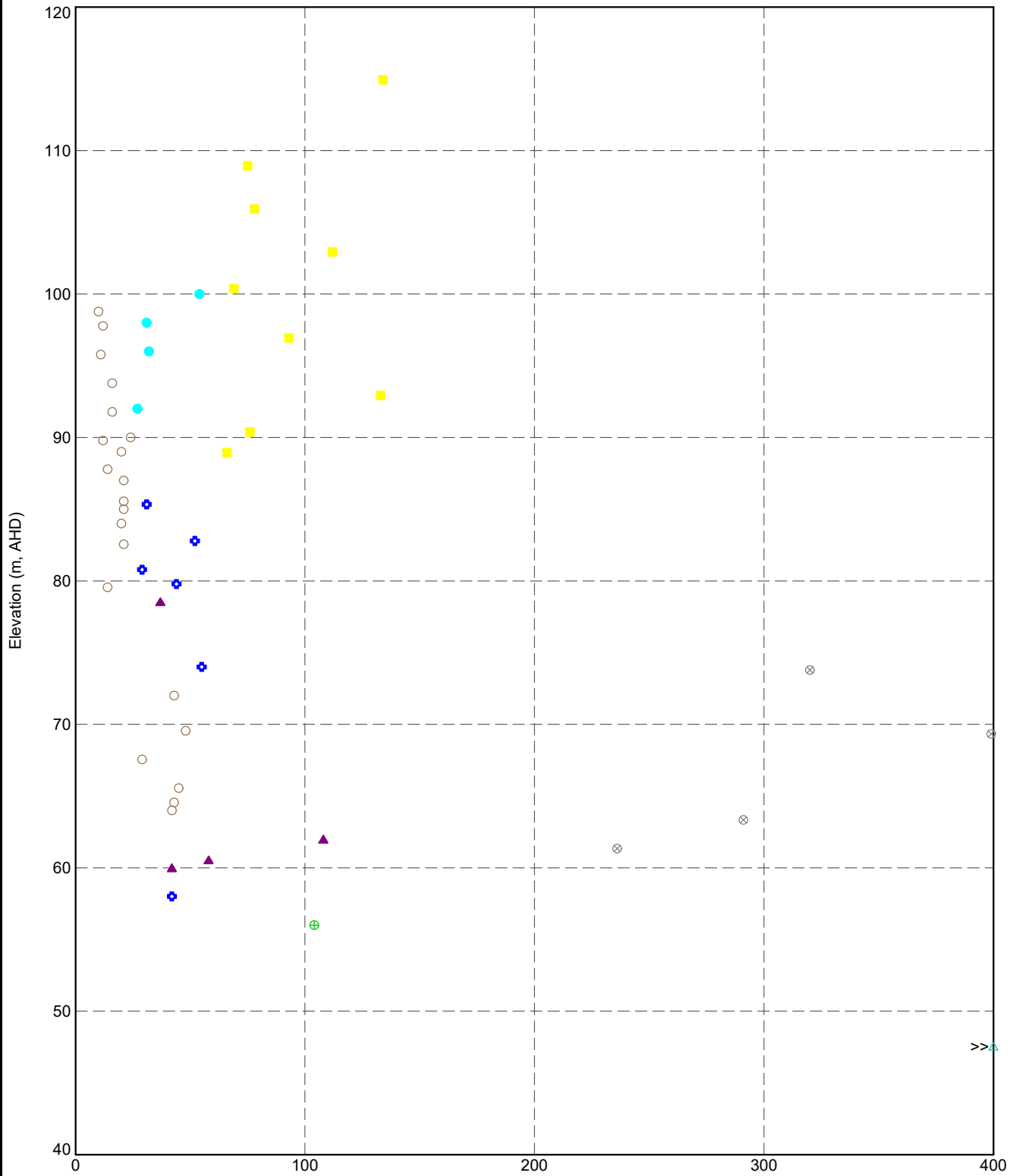
PointID Legend
■ ST/1090A
● ST/1149A
× ST/1162A/PZW



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Undrained Shear Strength vs. Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	328

DGD1-P.5.03.1.GLB.GLB Graph A.L.S.U.U.U.V.S.R.L.BY UNIT DGD1-P.5.03.2.GP1 <<DrawingFile>> 9/9/2020 16:57 10.01.00.11 Datgel Lab and In Situ Tool - DGD | Lib: DGD1-P.5.03.2 2020-09-08 Proj: DGD1-DIST 5.03.1 2020-09-05



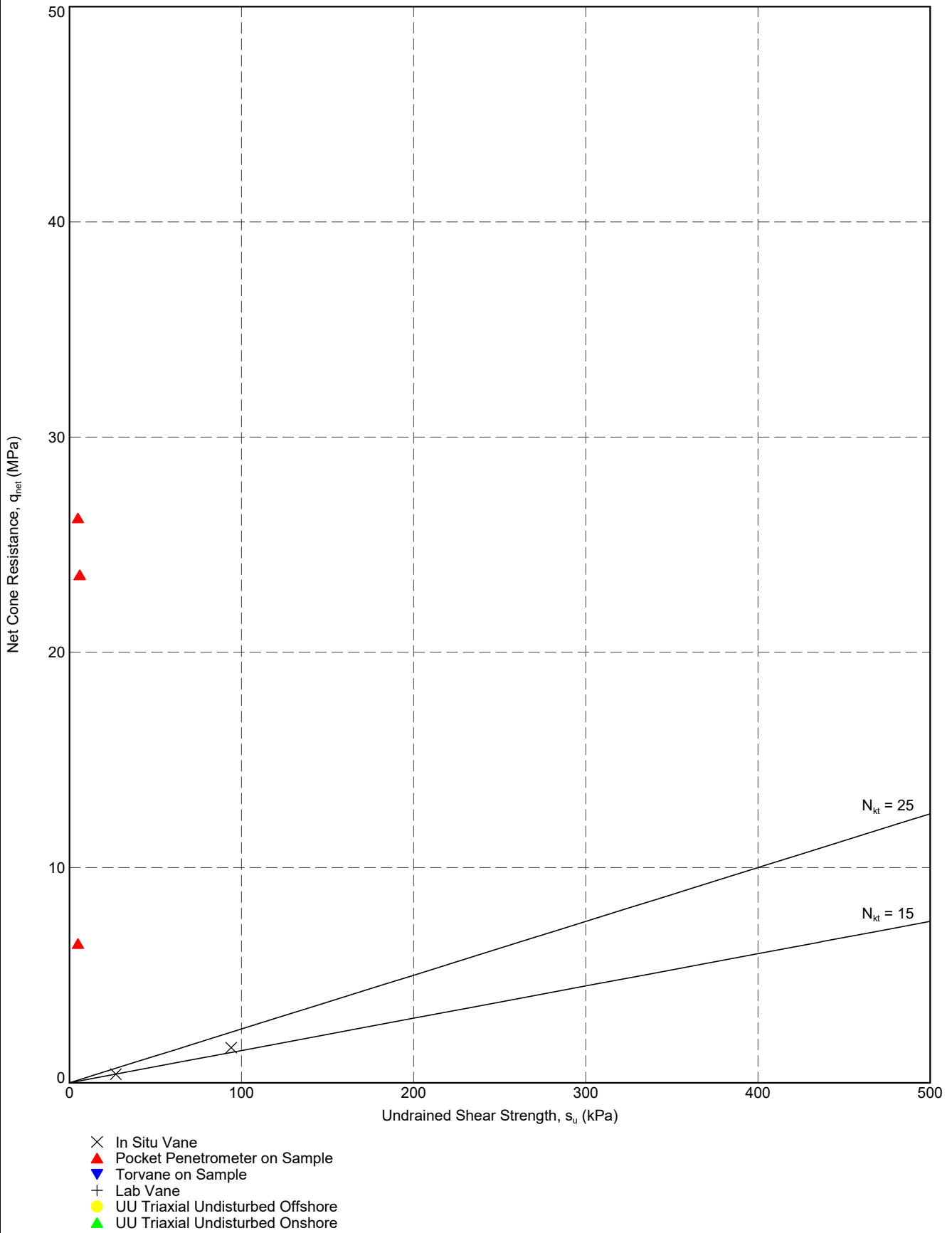
- Geology Unit Legend**
- FILL - BACKFILL
 - ▲ E - Estuarine (Transitional)
 - ◆ F2 - Alluvial soil (Non-granular)
 - M - Marine Clay
 - △ O(A) - Old Alluvium (Unweathered)
 - ⊗ O(B) - Old Alluvium (Partially weathered)
 - ⊕ O(C) - Old Alluvium (Distinctly weathered)
 - G(VI) - Granite (rocks & associated soils) Residua...



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
Undrained Shear Strength vs. Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	329

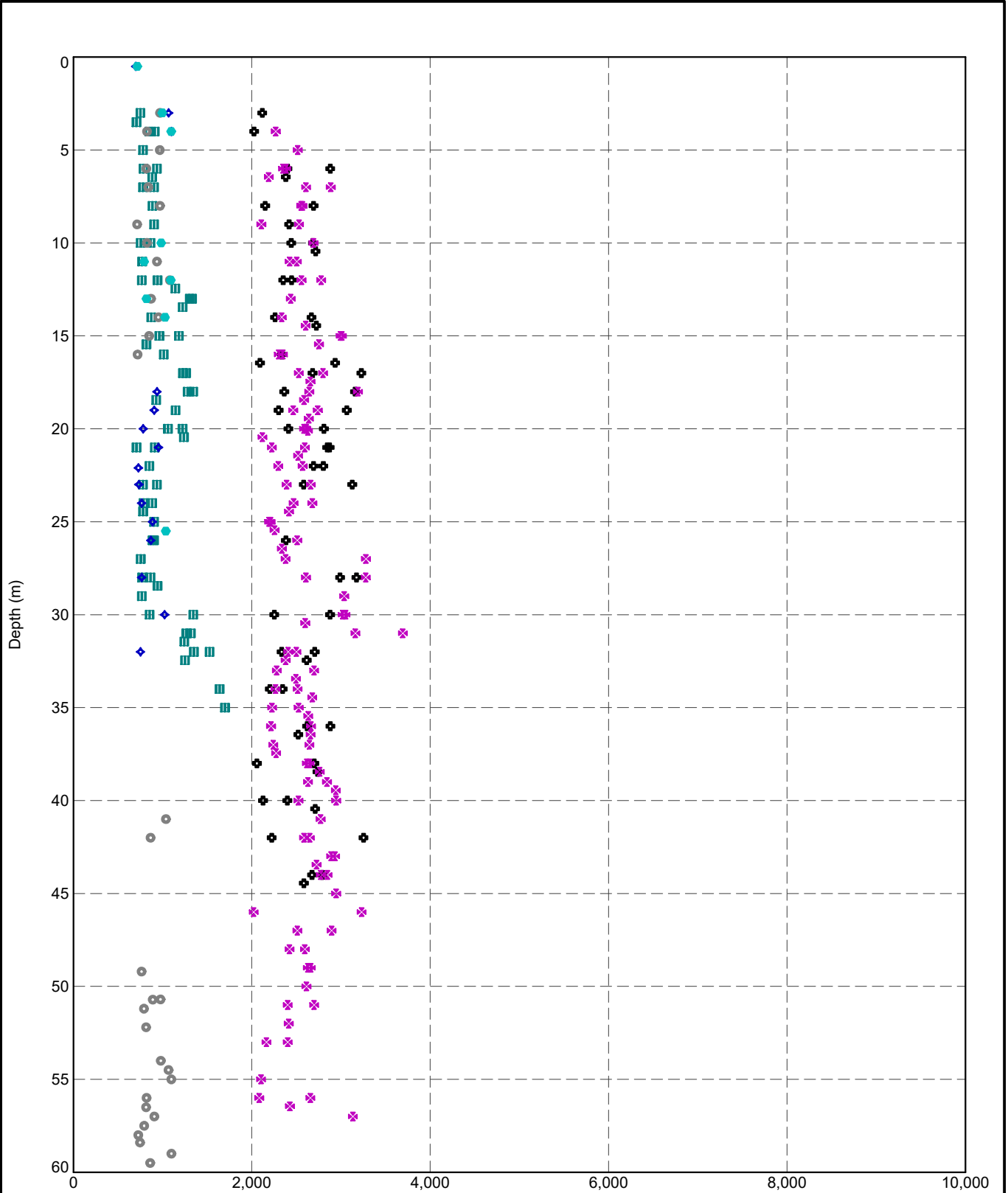
DGD1-P.5.03.1-UB.GLB_Graph_A.L.S.SU.VS.QNET_DGD1-P.5.03.2.GPJ <<DrawingFile>> 9/9/2020 16:57 10.01.00.11 Datgel Lab and In Situ Test - DGD1 [Lib: DGD1-P.5.03.2 2020-09-08 Proj: DGD1-CLST.5.03.1 2020-09-05]



TITLE
Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Correlation of CPTU and s_u Data - V-BH
 Offshore

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	330

D:\P\5.03.1\G.L.B. Graph A.L.S S-WAVE VS DEPTH BY PTID_DGDT-P.5.03.2.GPJ -<DrawingFile> 9/9/2020 16:57:10.01.00.11_Datgel Lab and In Situ Tool - DGD | Lib: DGDT-P.5.03.2.2020-09-08 Proj: DGDT-DLST.5.03.1.2020-09-05



- PointID Legend**
- ST/1090A
 - ST/1090B/PRM
 - ⊕ ST/1149A
 - ◆ ST/1149B/VST_PZW
 - ⊗ ST/1162A/PZW
 - ST/1162B/VST_PZW

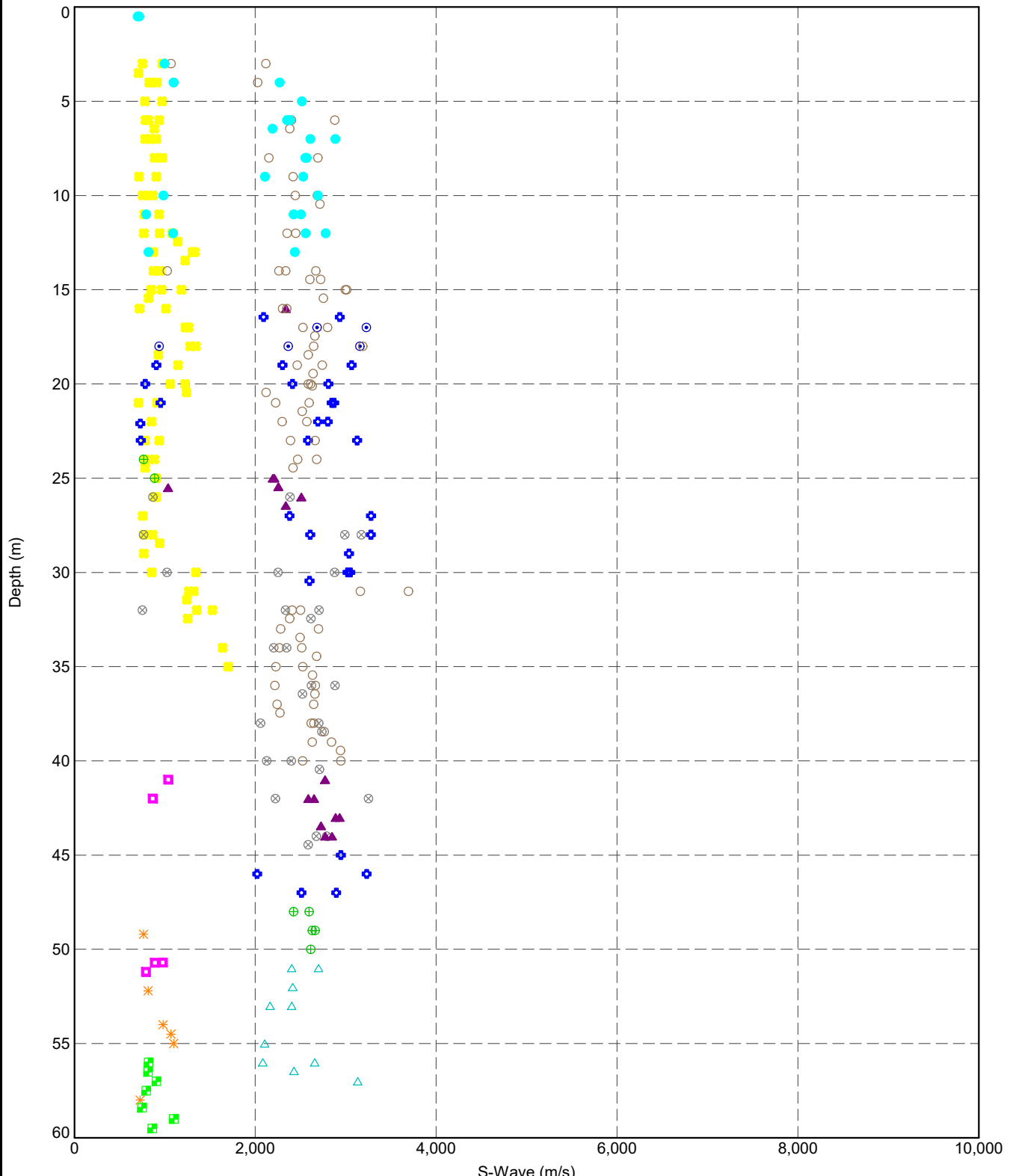


TITLE

Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 S-Wave versus Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	331

DGD1-P.5.03.1 LIB.GLB Graph A.1 S-WAVE VS DEPTH BY UNIT DGD1-P.5.03.2.GPJ <<DrawingFile>> 9/9/2020 16:57 -1001.00.11 Datgel Lab. and In Situ Test - DGD | Lib: DGD1-P.5.03.2 2020-09-08 Proj: DGD1-DIST 5.03.1 2020-09-05



Geology Unit Legend

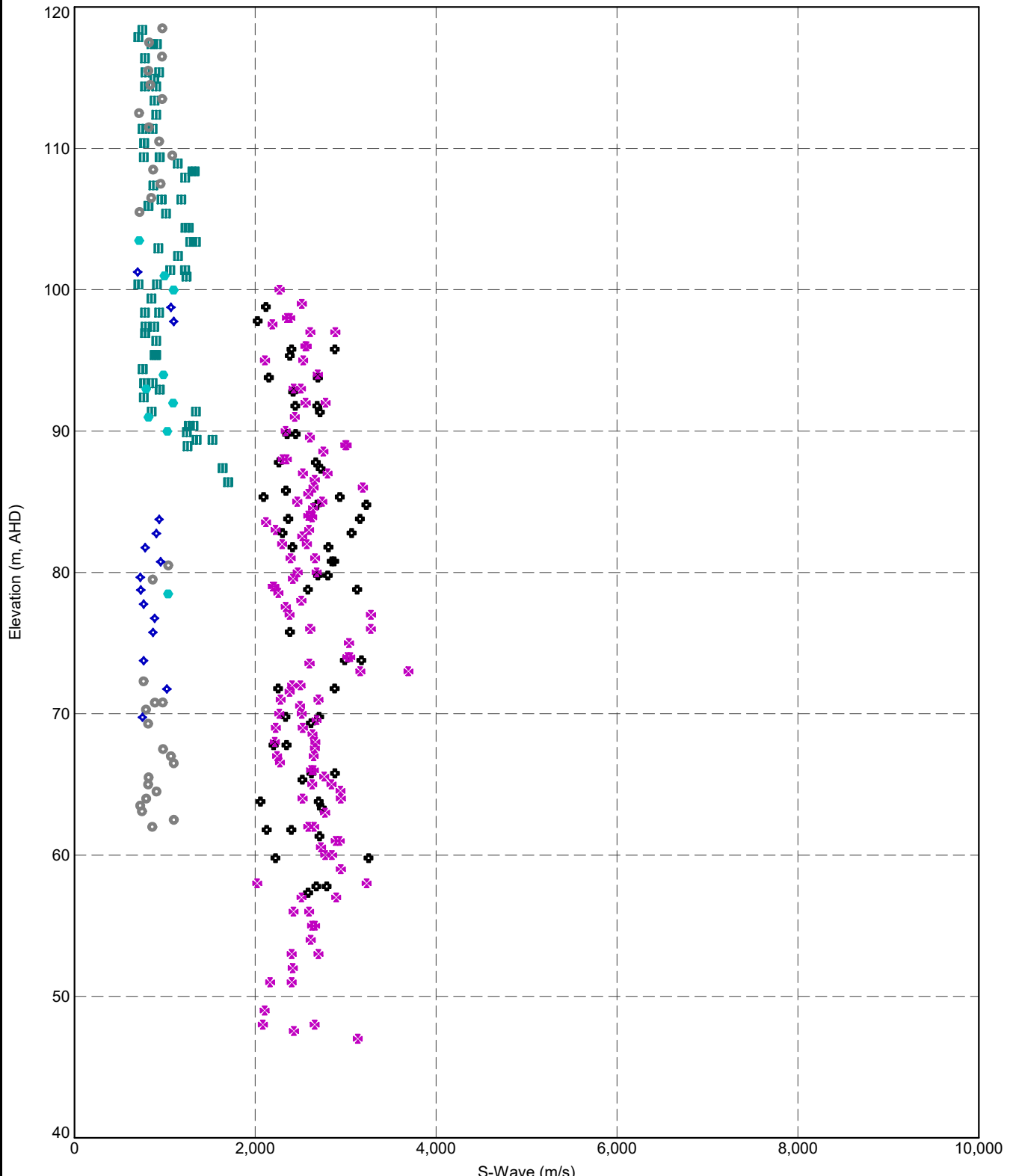
- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- F1 - Alluvial soil (Granular)
- ⊗ F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- △ O(A) - Old Alluvium (Unweathered)
- O(B) - Old Alluvium (Partially weathered)
- O(C) - Old Alluvium (Distinctly weathered)
- G(VI) - Granite (rocks & associated soils) Residual...
- ✱ G(IV) - Granite (rocks & associated soils) Highly ...
- G(III) - Granite (rocks & associated soils) Modera...
- G(II) - Granite (rocks & associated soils) Slightl...



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 S-Wave versus Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	332

DGD1-P.5.03.2.LIB.GLB Graph A.L.S.S.WAVE.VS.RL.BY.FTID.DGD1-P.5.03.2.GPJ <-DrawingFile>> 9/9/2020 16:57 10/1/00.11 Datgel Lab and In Situ Tool - DGD [Lib.DGD1-P.5.03.2.2020-09-08 Proj.DGD1-DLST.5.03.1.2020-09-05



- PointID Legend**
- ST/1090A
 - ST/1090B/PRM
 - ⊕ ST/1149A
 - ◆ ST/1149B/VST_PZW
 - ⊗ ST/1162A/PZW
 - ST/1162B/VST_PZW

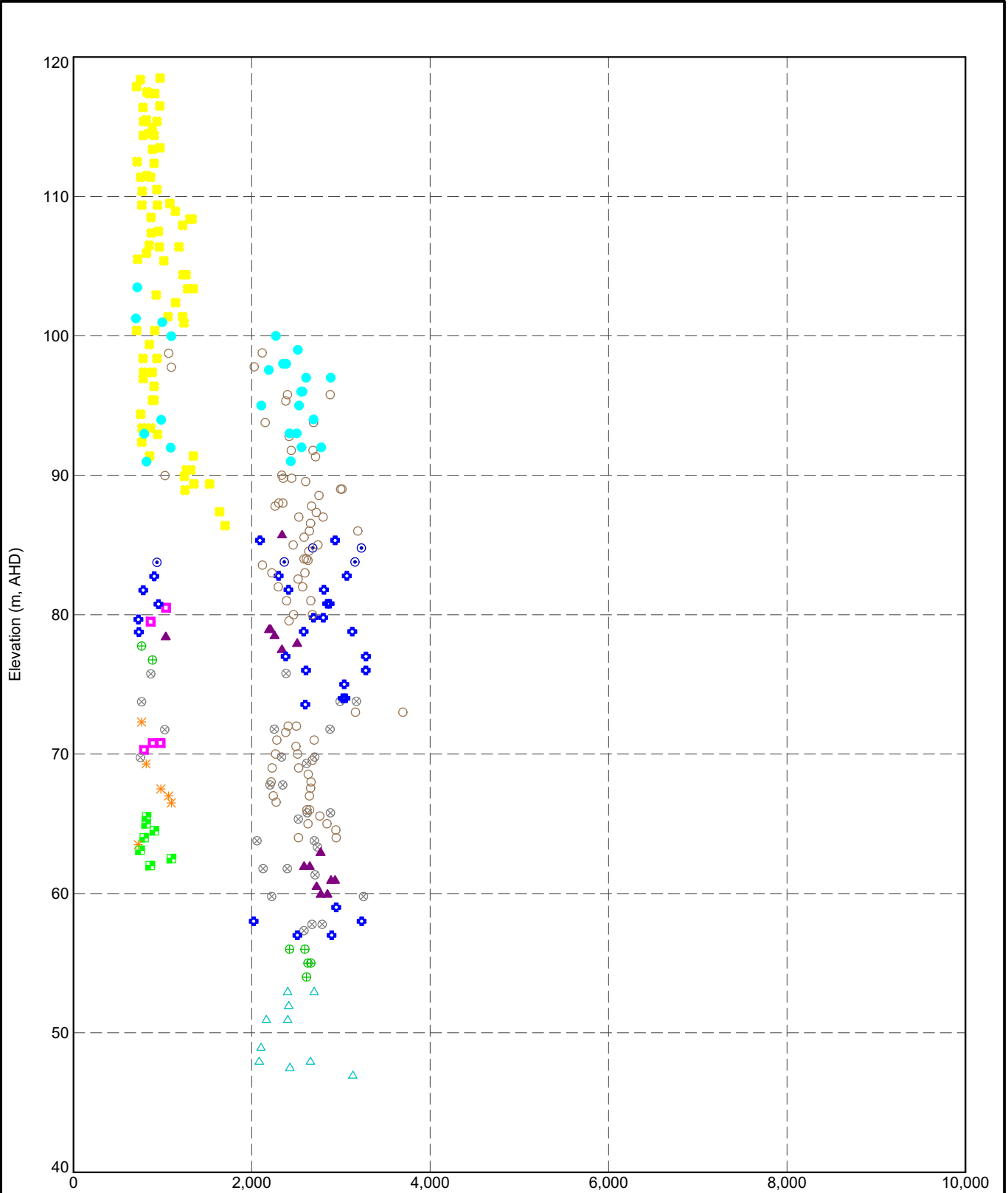


TITLE

Datgel
Engineer 1
Somewhere, World
Construction Project
S-Wave versus Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	333

DGD1-P.5.03.1.GLB Graph A.L.S S-WAVE VS RLY UNIT DGD1-P.5.03.2.GPJ <DrawingFile>> 9/9/2020 16:57 10.01.00.11 Datgel Lab and In Situ Tool - DGD [Lib: DGD1-P.5.03.2.2020-09-08 Proj: DGD1-LS1.5.03.1.2020-09-05]



Geology Unit Legend

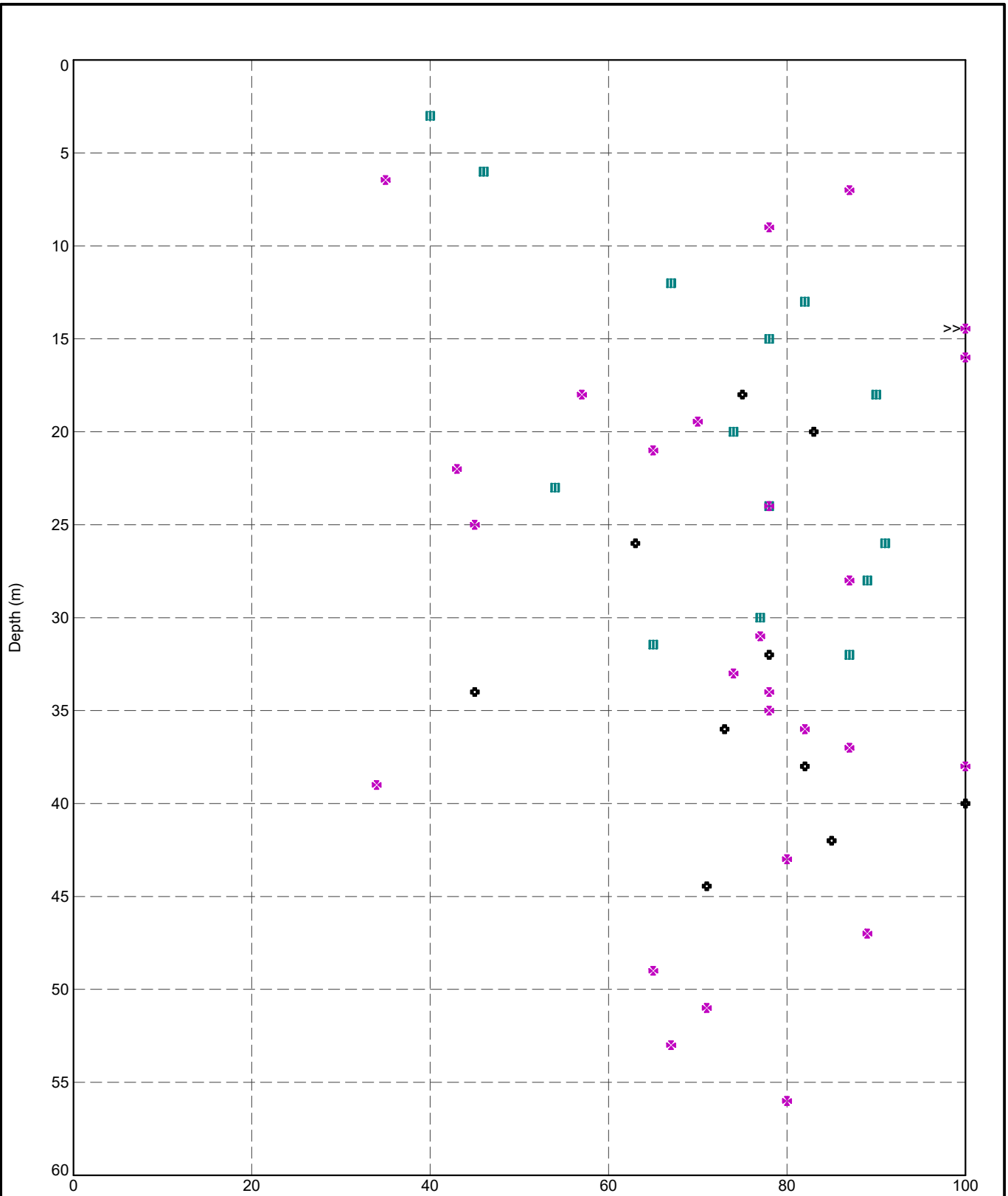
- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- F1 - Alluvial soil (Granular)
- ⊕ F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- △ O(A) - Old Alluvium (Unweathered)
- ⊗ O(B) - Old Alluvium (Partially weathered)
- ⊕ O(C) - Old Alluvium (Distinctly weathered)
- G(VI) - Granite (rocks & associated soils) Residua...
- ✱ G(IV) - Granite (rocks & associated soils) Highly ...
- G(III) - Granite (rocks & associated soils) Modera...
- G(II) - Granite (rocks & associated soils) Slightl...



TITLE
Datgel
Engineer 1
Somewhere, World
Construction Project
S-Wave versus Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	334

DGD1-P.5.03.2.GPJ - Graph A.L.S. TRIAXIAL E_u VS DEPTH BY PTID. DGD1-P.5.03.2.GPJ -> DrawingFile -> 9/9/2020 16:58 10.01.00.11 Datgel Lab and In Situ Test - DGD1 Lib: DGD1-P.5.03.2.2020-09-08 Proj: DGD1-CJLST 5.03.1.2020-09-05

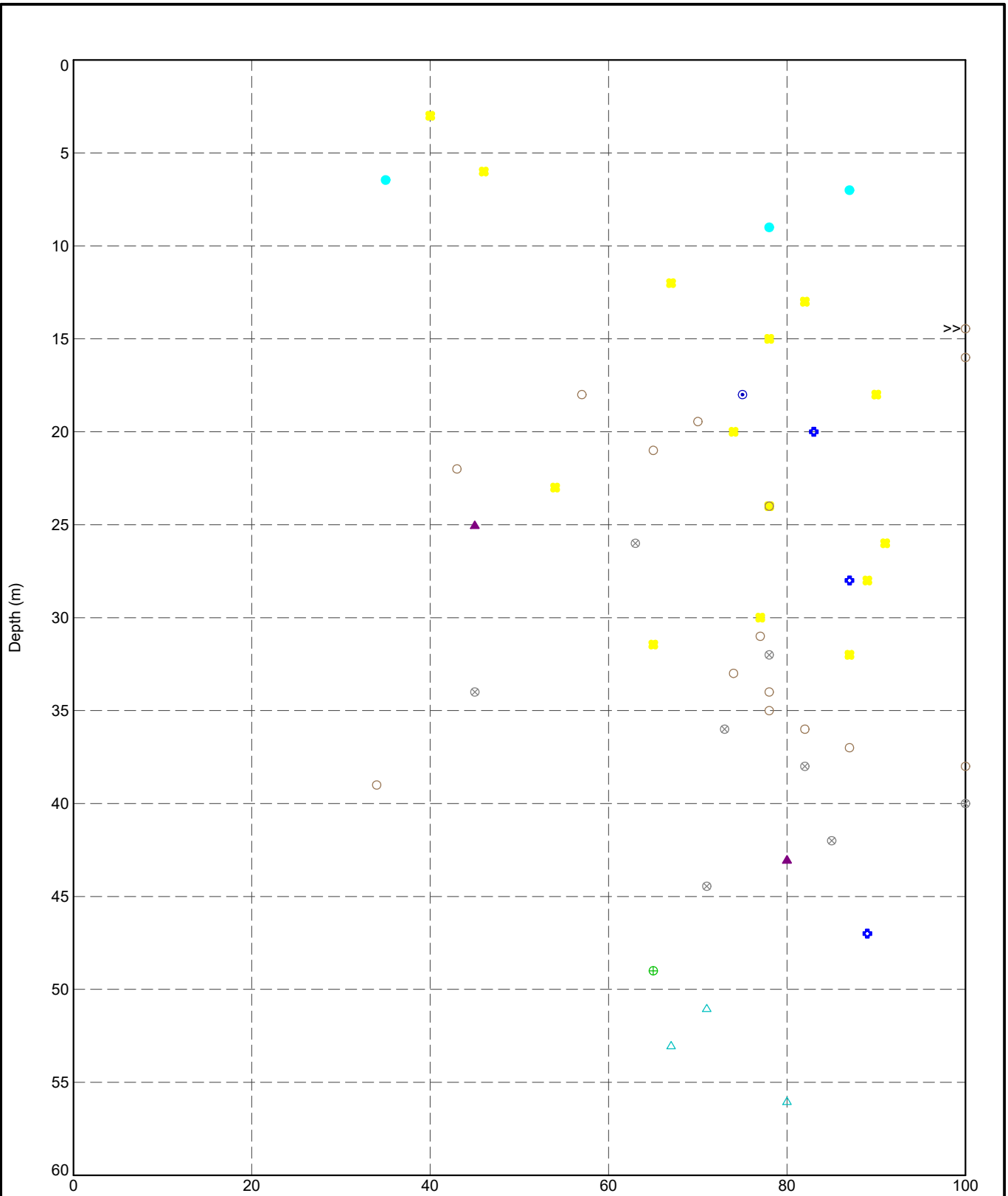


PointID Legend
 ■ ST/1090A
 ● ST/1149A
 ✕ ST/1162A/PZW

Undrained Young's Modulus from Triaxial, E_u (MPa)

	<p>TITLE</p> <p style="text-align: center;">Datgel Engineer 1 Somewhere, World Construction Project</p> <p style="text-align: center;">Undrained Young's Modulus versus Depth</p>	<p>DRAWN PMW</p>	<p>DATE 9/9/2020</p>
		<p>CHECKED</p>	<p>DATE 9/9/2020</p>
		<p>SCALE Not To Scale</p>	<p>A4</p>
		<p>PROJECT No 5.03.1</p>	<p>FIGURE No 335</p>

DGD1-P.5.03.1 TRAXIAL EU VS DEPTH BY UNIT DGD1-P.5.03.2.GPJ --DrawingFile-- 9/9/2020 16:58 10.01.00.11 Datgel Lab and In Situ Tool - DGD [Lib: DGD1-P.5.03.2.2020-09-09.Pjt; DGD1-CL-ST.5.03.1.2020-09-05



Geology Unit Legend

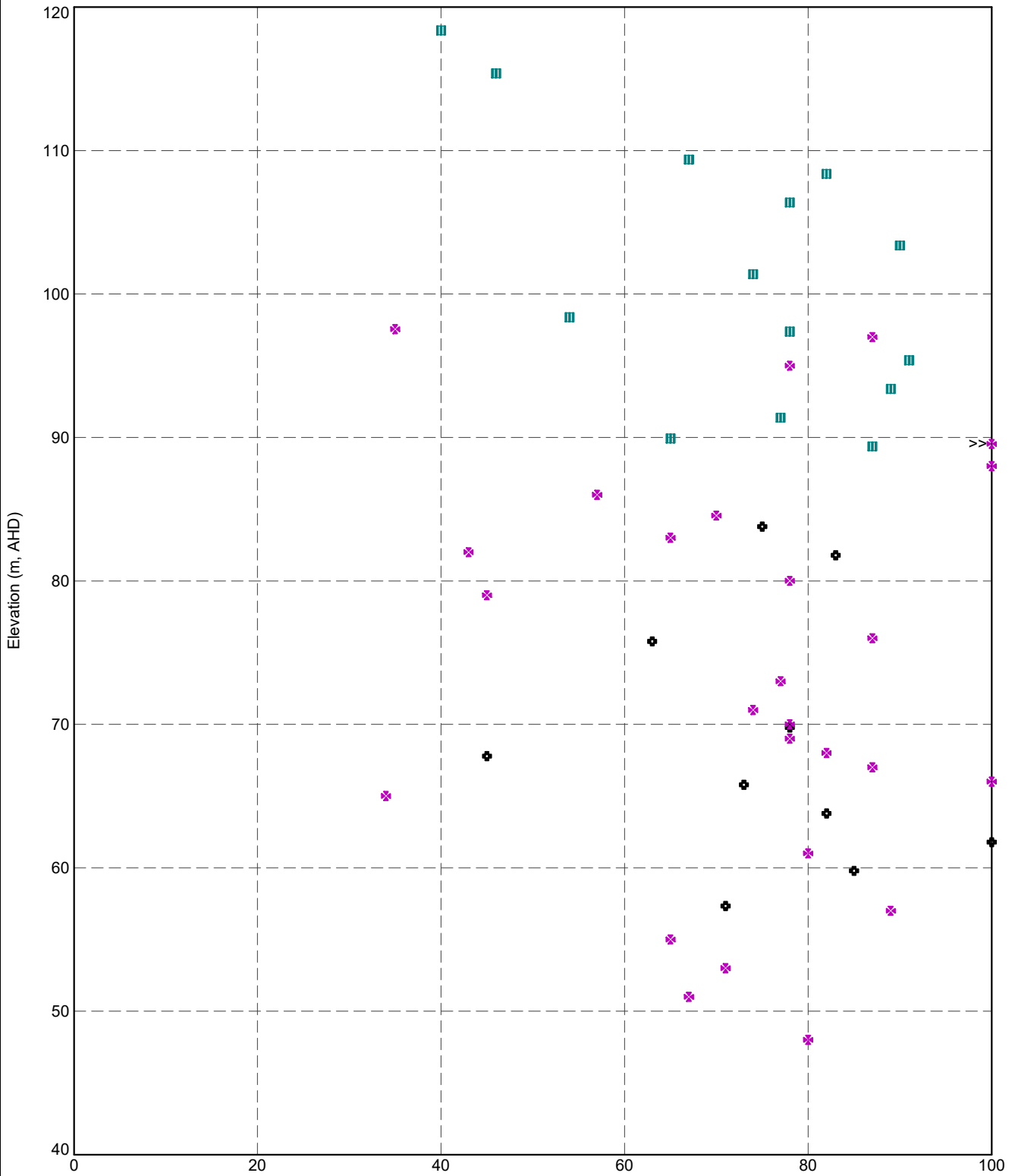
- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- F1 - Alluvial soil (Granular)
- ⊕ F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- △ O(A) - Old Alluvium (Unweathered)
- ⊗ O(B) - Old Alluvium (Partially weathered)
- ⊕ O(C) - Old Alluvium (Distinctly weathered)
- G(VI) - Granite (rocks & associated soils) Residua...



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Undrained Young's Modulus versus Depth

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	336

DGD1-P.5.03.1.U3.TRIAXIAL.EU.VS.RL.BY.PTID.DGDT-P.5.03.2.GPJ -<DrawingFile>> 9/9/2020 16:58 -10:01:00.11 Datgel Lab and In Situ Tool - DGD | Lib: DGD1-P.5.03.2.2020-09-08.P1; DGD1-DLST.5.03.1.2020-09-05



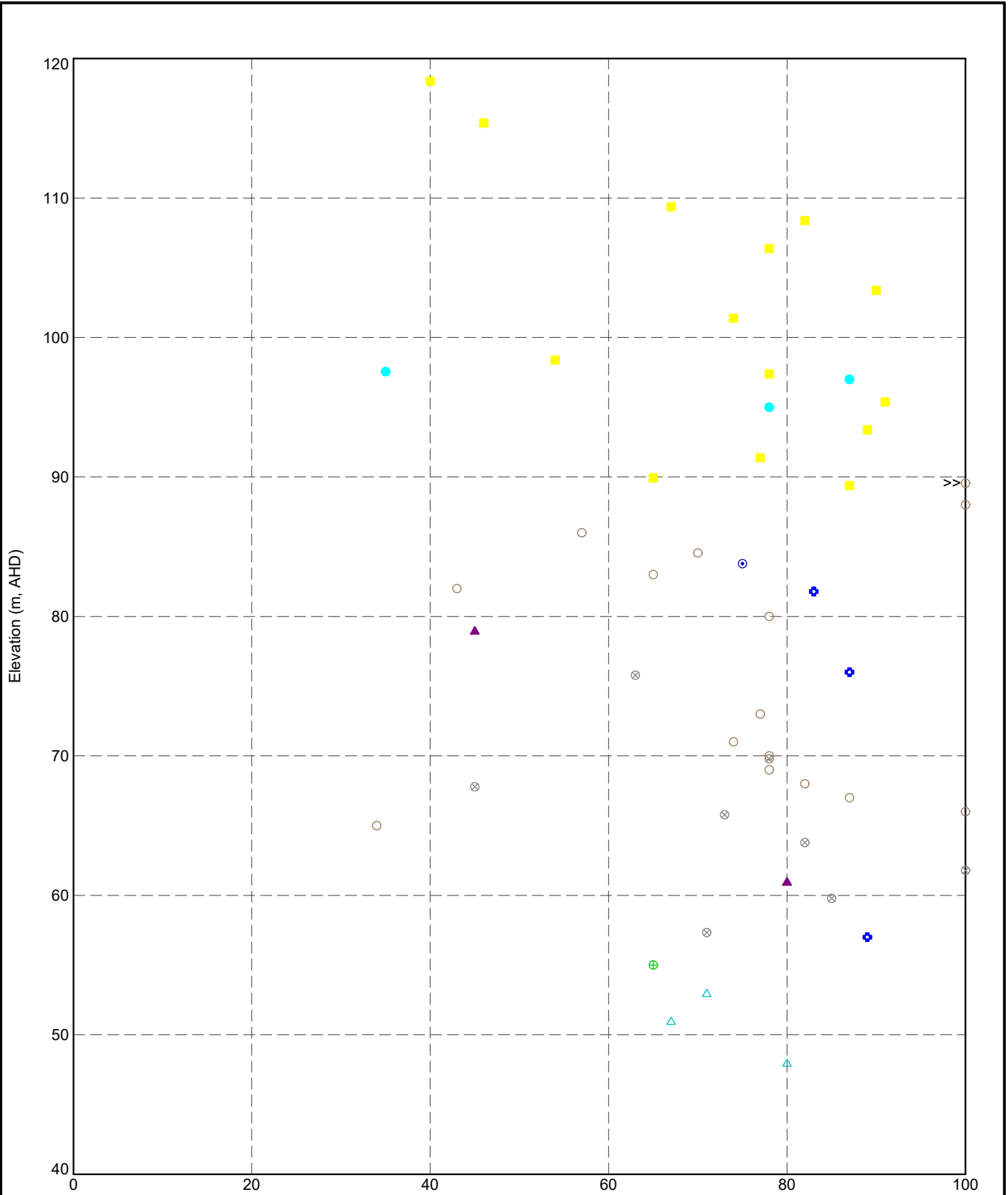
PointID Legend
■ ST/1090A
+ ST/1149A
× ST/1162A/PZW



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
Undrained Young's Modulus versus Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	337

DGD1-P-5.03.1-UB-GLB-Graph-A-LS-TRIAxIAL-EU-VS-RU-BY-UNIT-DGD1-P-5.03.2-CP1- <<DrawingFile>> 9/9/2020 16:58:10.01.00.11 Datgel.Lab and In Situ Tool - DGD1 [Lib: DGD1-P-5.03.2-2020-09-08 Proj: DGD1-DLST-5.03.1-2020-09-05]



Geology Unit Legend

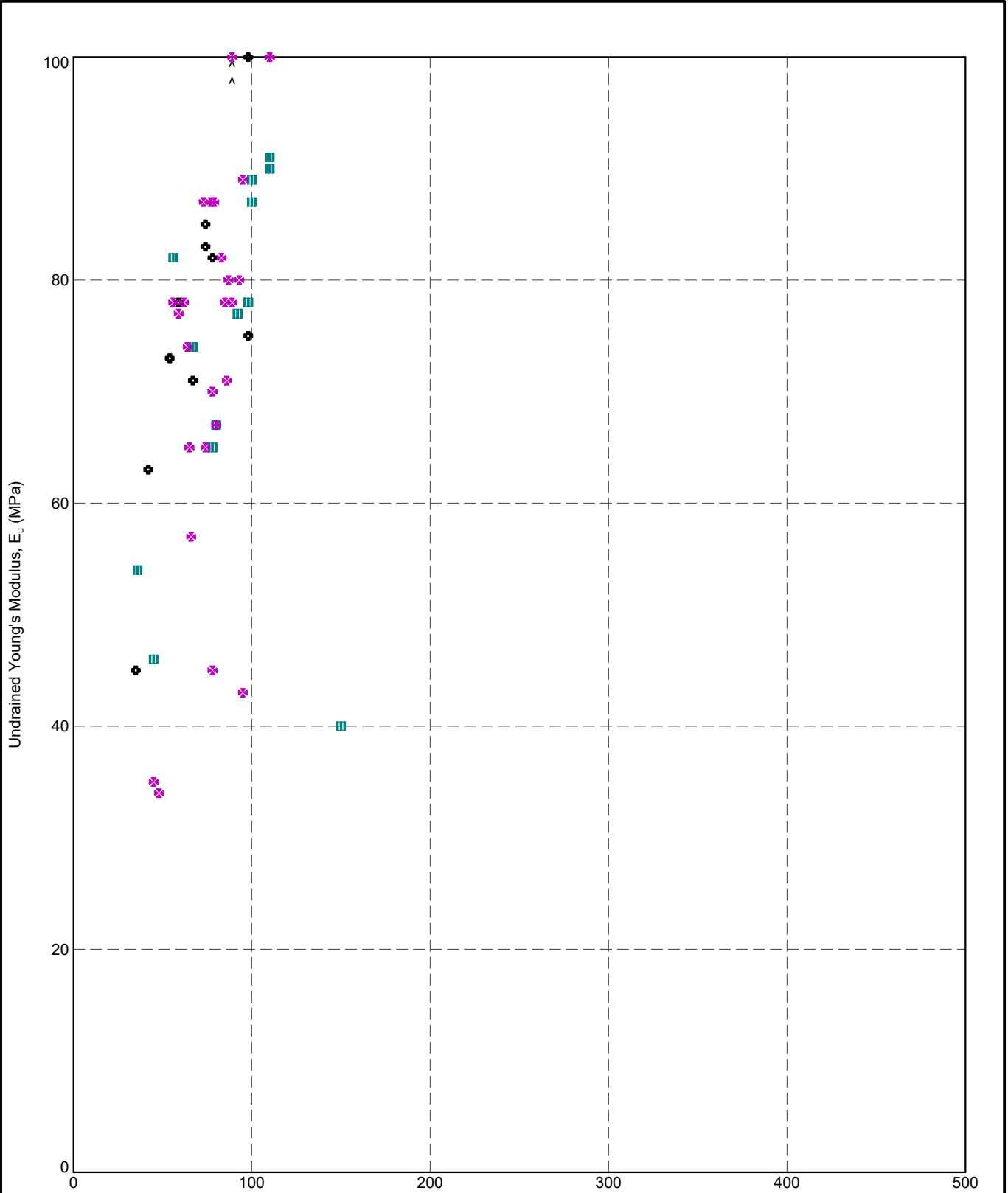
- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- F1 - Alluvial soil (Granular)
- ⊕ F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- △ O(A) - Old Alluvium (Unweathered)
- ⊗ O(B) - Old Alluvium (Partially weathered)
- ⊕ O(C) - Old Alluvium (Distinctly weathered)
- G(VI) - Granite (rocks & associated soils) Residua...



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
Undrained Young's Modulus versus Elevation

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	338

DGD1-P.5.03.2.LIB.GLB_Graph_A.LS_TRANXIAL_SU_VS_EU_BY_PTID_DGD1-P.5.03.2.GPJ <<DrawingFile>> 9/9/2020 16:59 10/01/00.11 Datgel Lab and In Situ Tool - DGD | Lib.DGD1-P.5.03.2.2020-09-08 Proj.DGD1-DIST.5.03.1.2020-09-05



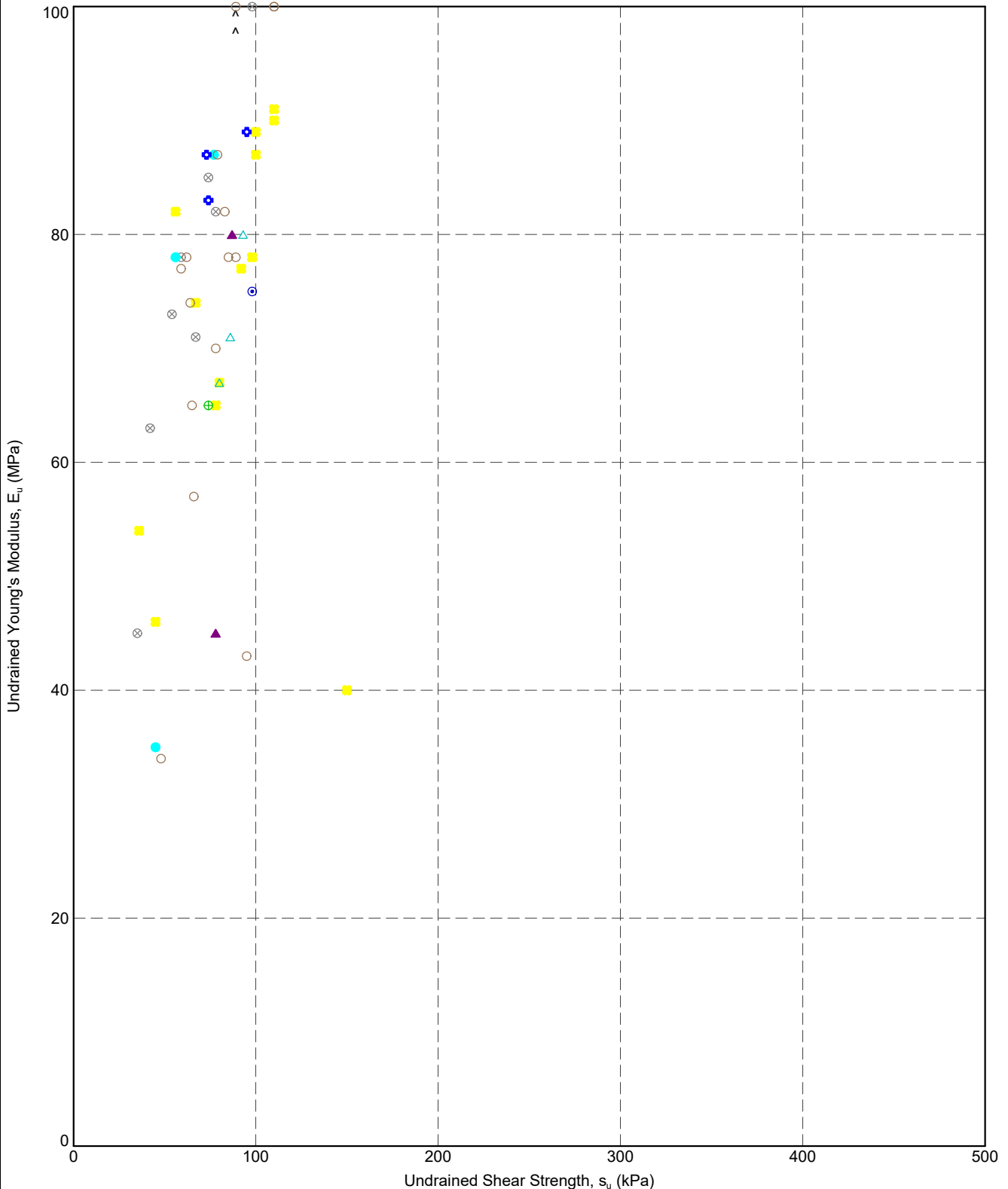
PointID Legend
■ ST/1090A
● ST/1149A
✕ ST/1162A/PZW



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 s_u vs. E_u

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	339

DGDTP.5.03.2.LIB.GLB Graph A.L.S TRAXIAL SU VS EU BY UNIT DGDTP.5.03.2.GPJ <<DrawingFile>> 9/9/2020 16:59 10.01.00.11 Datgel.Lib and In Situ Tool - DGD [Lib: DGDTP.5.03.2.2020-09-08 Proj: DGDTP-DLST.5.03.1.2020-09-05]



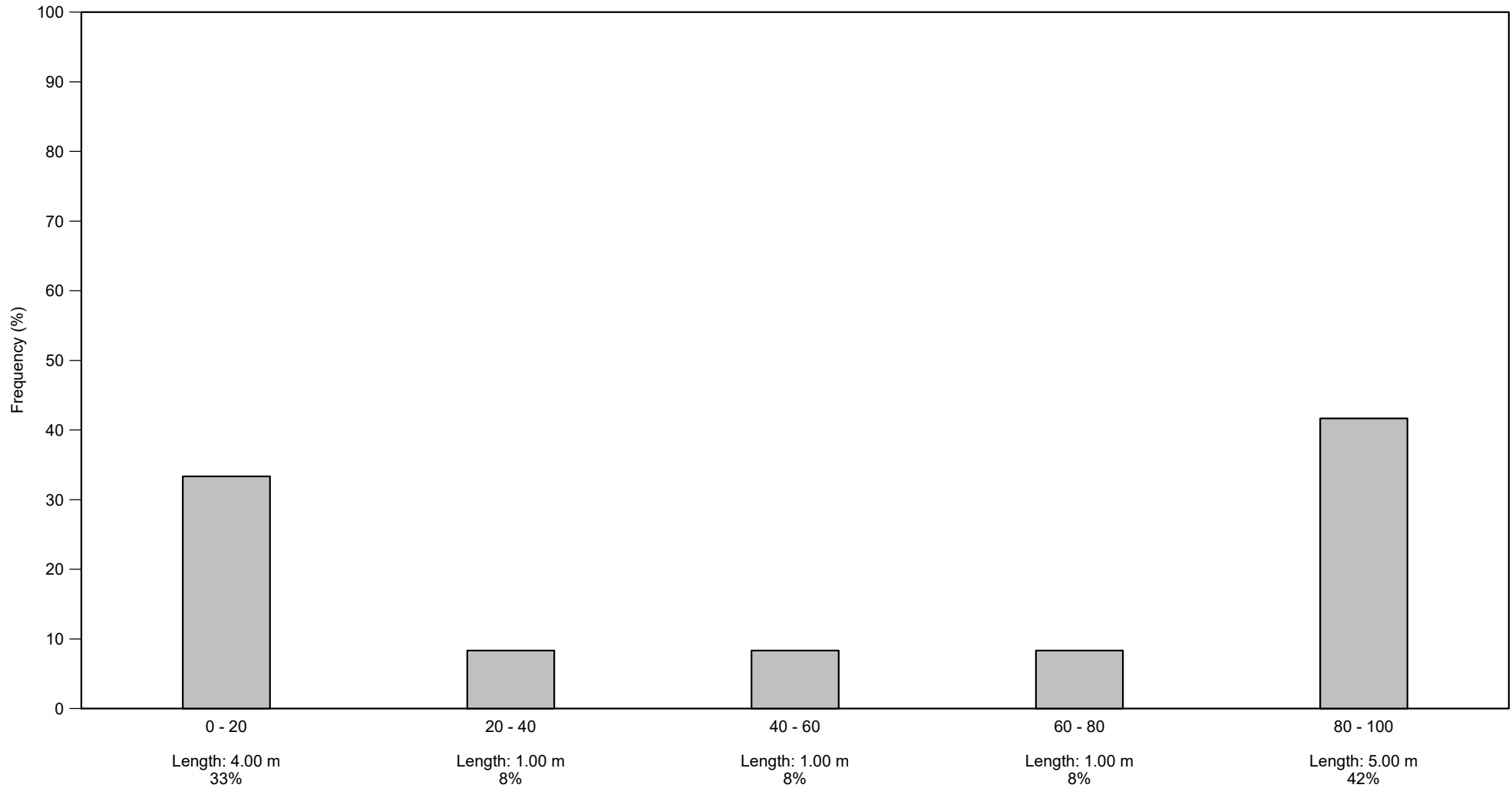
Geology Unit Legend

- FILL - BACKFILL
- ▲ E - Estuarine (Transitional)
- F1 - Alluvial soil (Granular)
- ⊕ F2 - Alluvial soil (Non-granular)
- M - Marine Clay
- △ O(A) - Old Alluvium (Unweathered)
- ⊗ O(B) - Old Alluvium (Partially weathered)
- ⊕ O(C) - Old Alluvium (Distinctly weathered)
- G(VI) - Granite (rocks & associated soils) Residua...



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 s_u vs. E_u

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	Not To Scale		A4
PROJECT No	5.03.1	FIGURE No	340



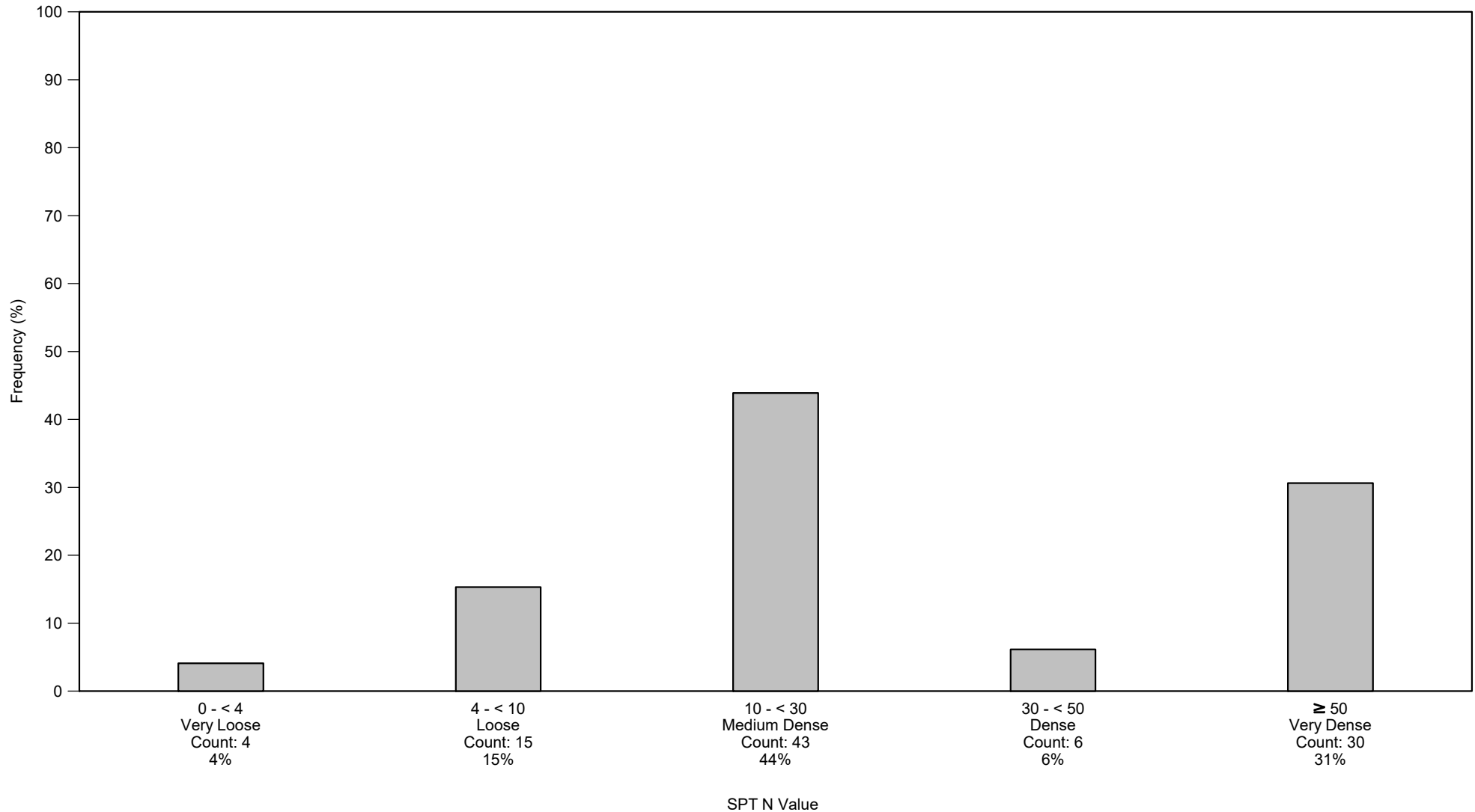
Rock Quality Designation, RQD (%)

Count: 12
 Mean: 51.75
 Minimum: 0.00
 Maximum: 100.00
 Standard Deviation: 43.26



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 RQD Histogram

DRAWN	DATE	9/9/2020
CHECKED	DATE	9/9/2020
SCALE	Not to Scale	
PROJECT No	5.03.1	FIGURE No
		A4

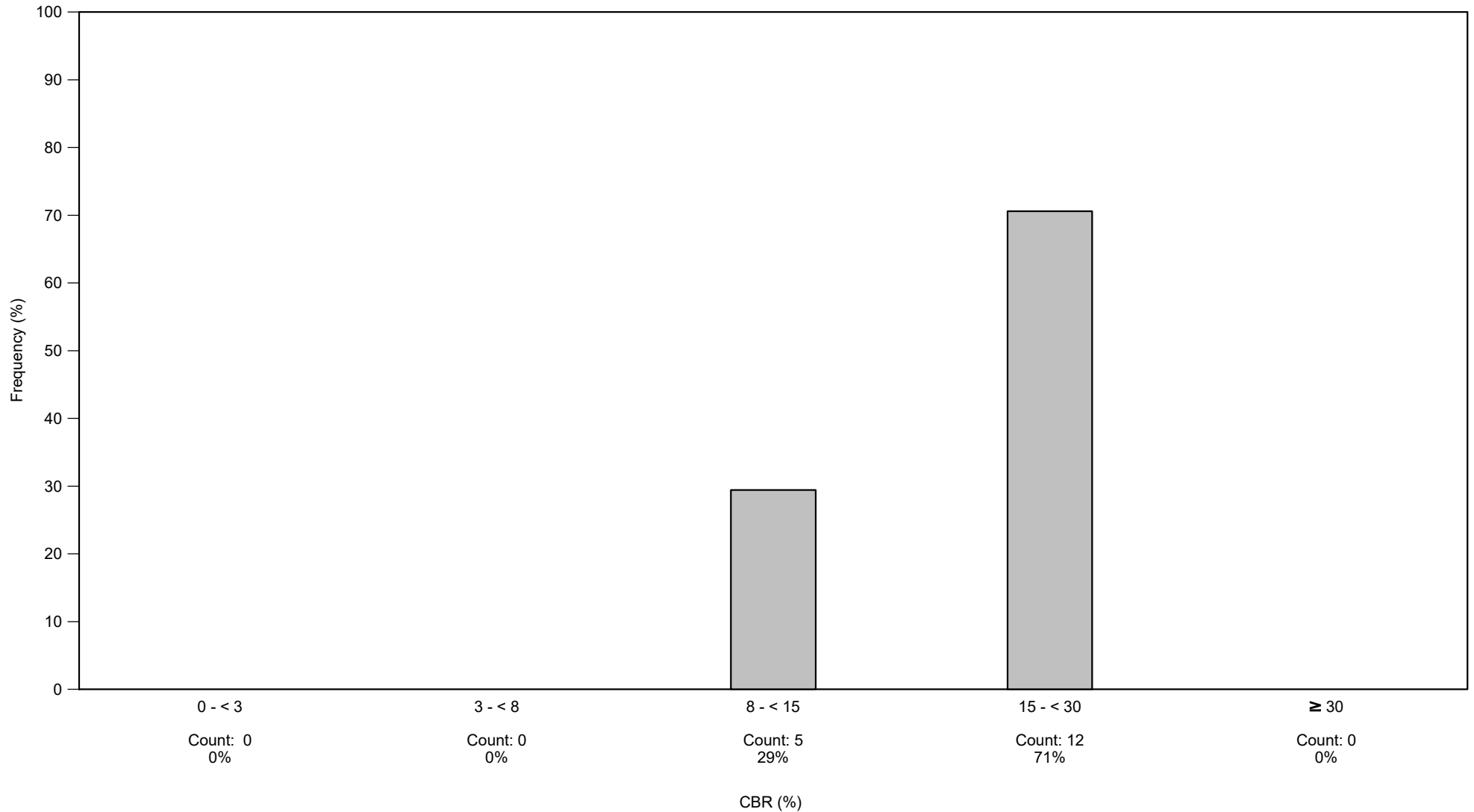


Count: 98
 Mean: 38.46
 Minimum: 1
 Maximum: 100
 Standard Deviation: 35.28



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 SPT N Histogram

DRAWN	DATE	9/9/2020
CHECKED	DATE	9/9/2020
SCALE	Not to Scale	
PROJECT No	5.03.1	
FIGURE No	A4	



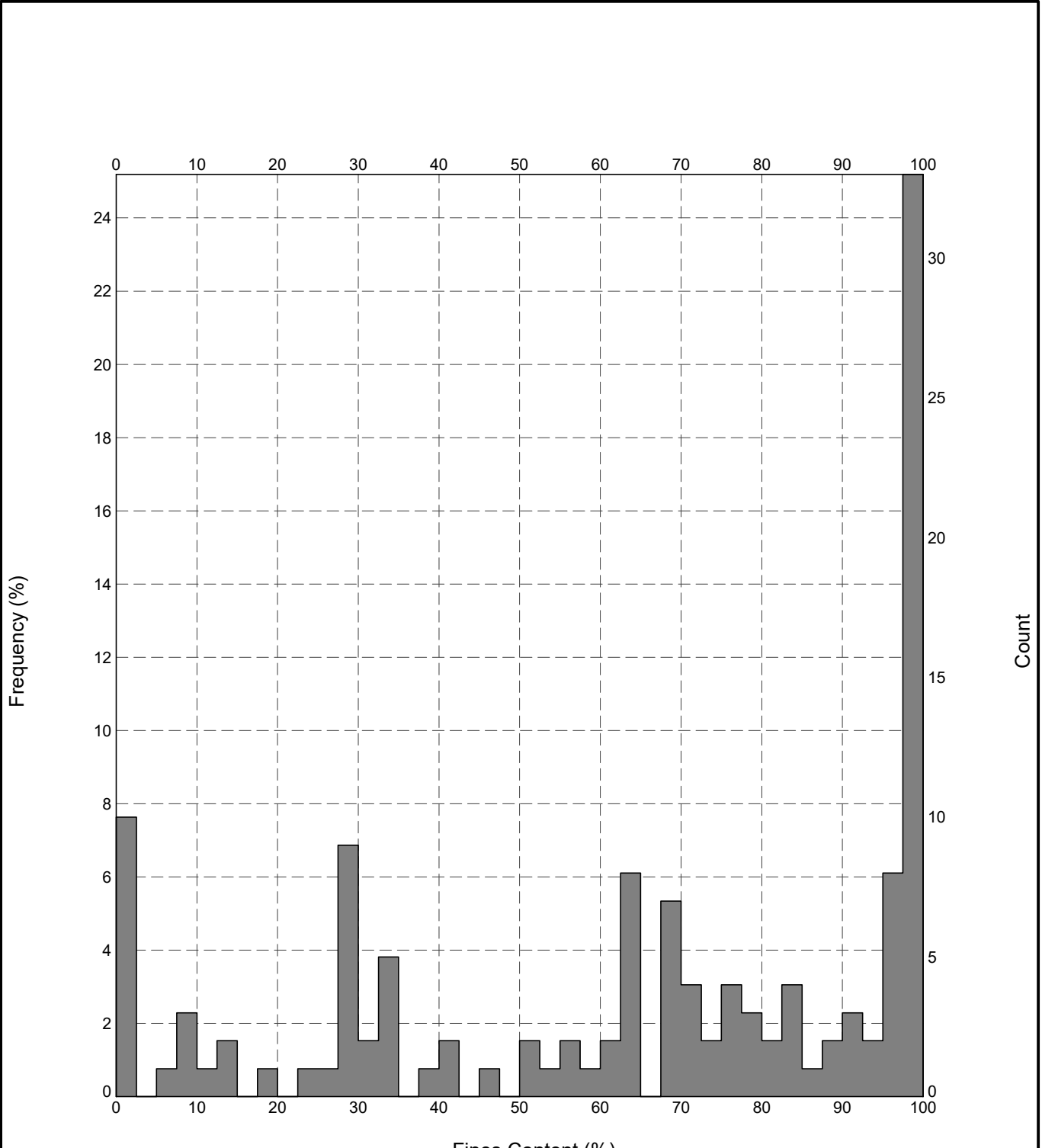
Count: 17
 Mean: 16.91
 Minimum: 12.20
 Maximum: 24.60
 Standard Deviation: 3.20



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 CBR Histogram

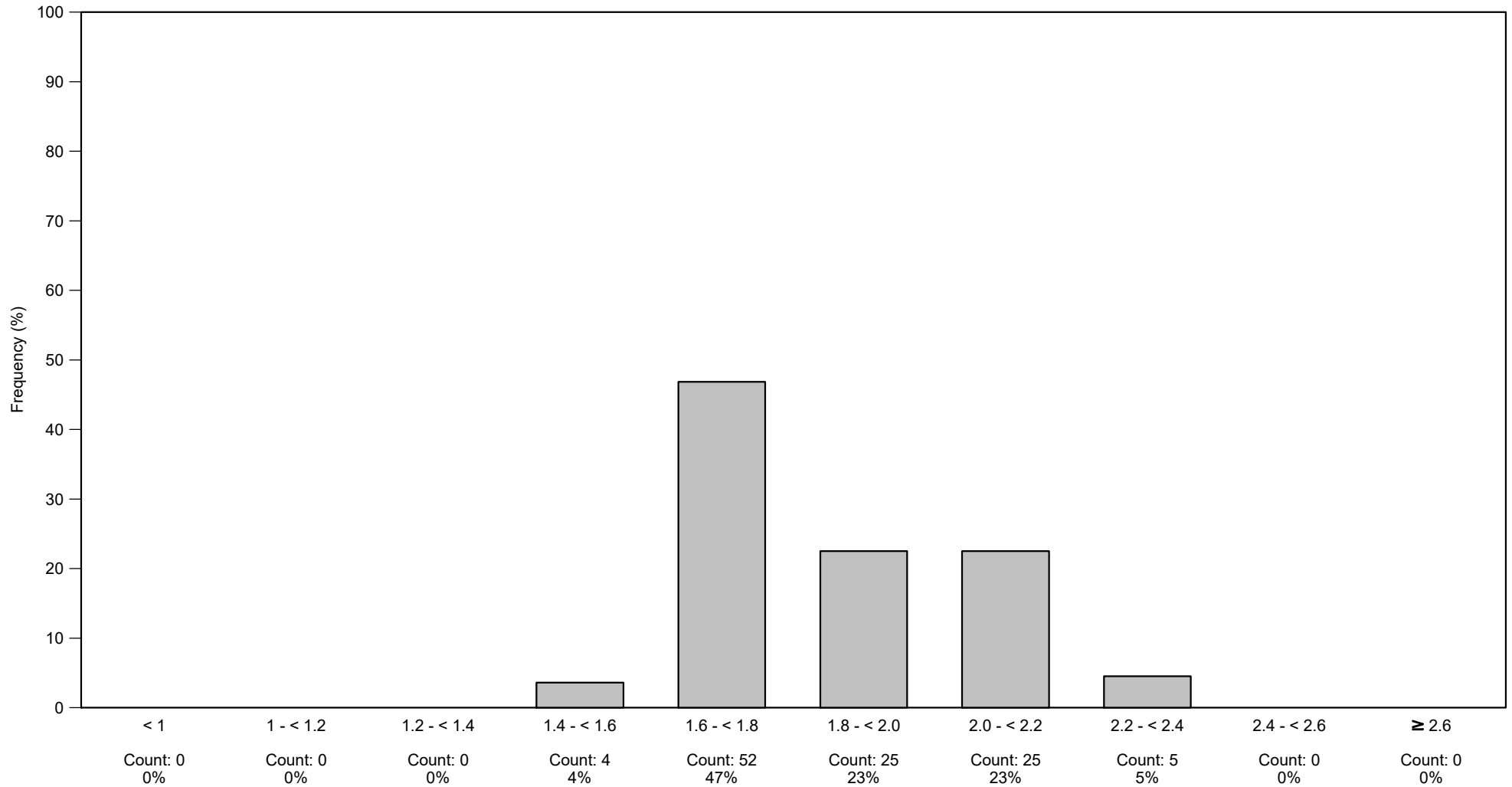
DRAWN	DATE	9/9/2020
CHECKED	DATE	9/9/2020
SCALE	Not to Scale	
PROJECT No	5.03.1	
FIGURE No	A4	

DGD1-P.5.03.2.LIB.GLB_Hdr_A.LCS.PSD.FINES.CONTENT.DGD1-P.5.03.2.OP.J <<DrawingFile>> 9/9/2020 16:58 10.01.00.11 Datgel Lab and In Situ Tool_DGD | Lib_DGD1-P.5.03.2.2020-09-08 Proj_DGD1-DLST.5.03.1.2020-09-05




Number of Tests: 131
 Average: 65
 Minimum: 0
 Maximum: 100
 Standard Dev: 34

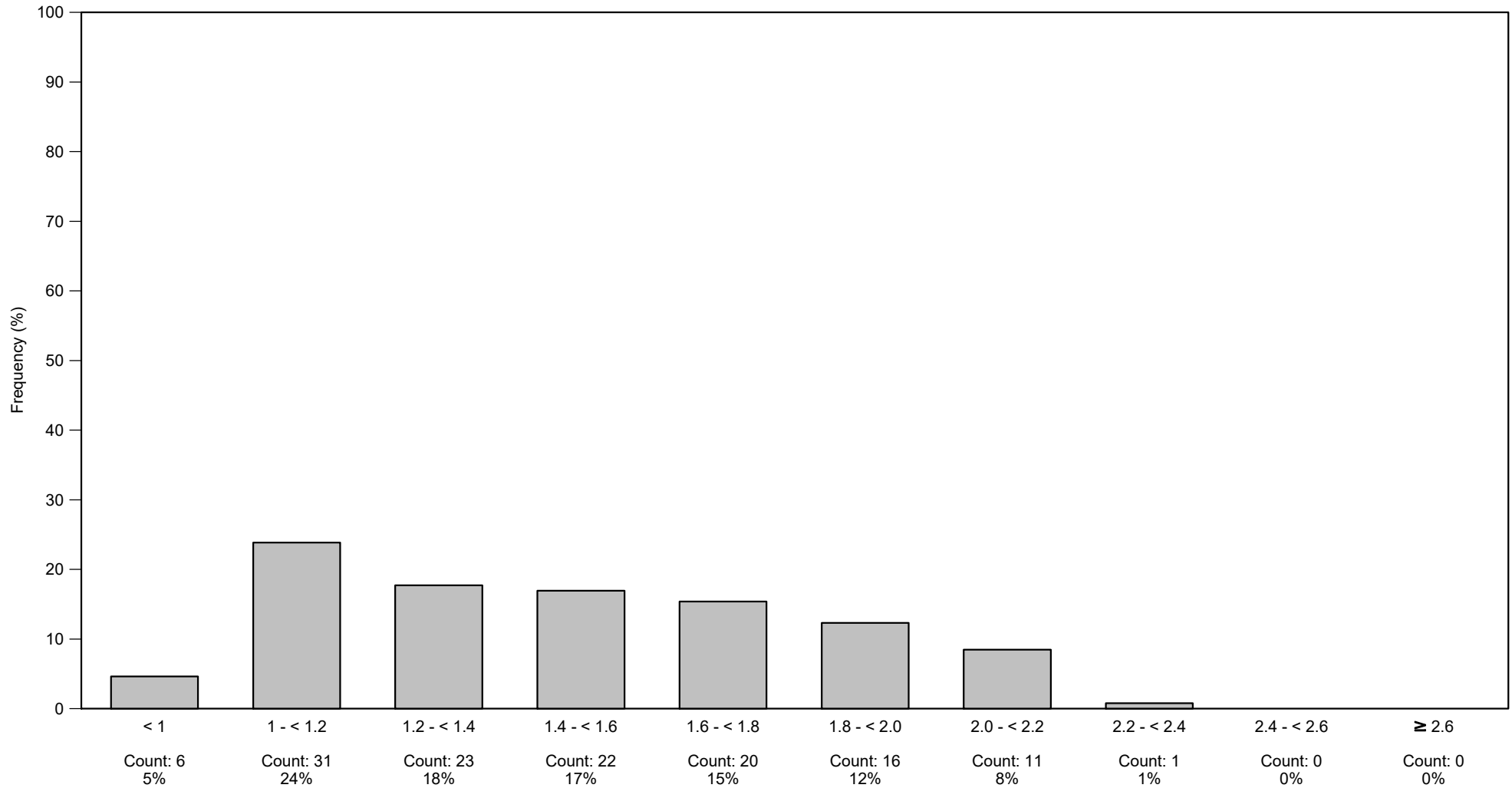
	TITLE	Datgel Engineer 1 Somewhere, World Construction Project Fines Content Frequency		DRAWN	DATE	9/9/2020
				CHECKED	DATE	9/9/2020
				SCALE	Not to Scale	A4
				PROJECT No	5.03.1	FIGURE No



Soil and Rock Bulk Density, ρ_b (Mg/m³)

Count: 111
 Mean: 1.84
 Minimum: 1.47
 Maximum: 2.28
 Standard Deviation: 0.20

 Geotechnics • Geoenvironment • Laboratory	TITLE	Datgel Engineer 1 Somewhere, World Construction Project Soil and Rock Bulk Density Histogram	
	DRAWN	DATE	9/9/2020
	CHECKED	DATE	9/9/2020
	SCALE	Not to Scale		A4
PROJECT No	5.03.1		FIGURE No



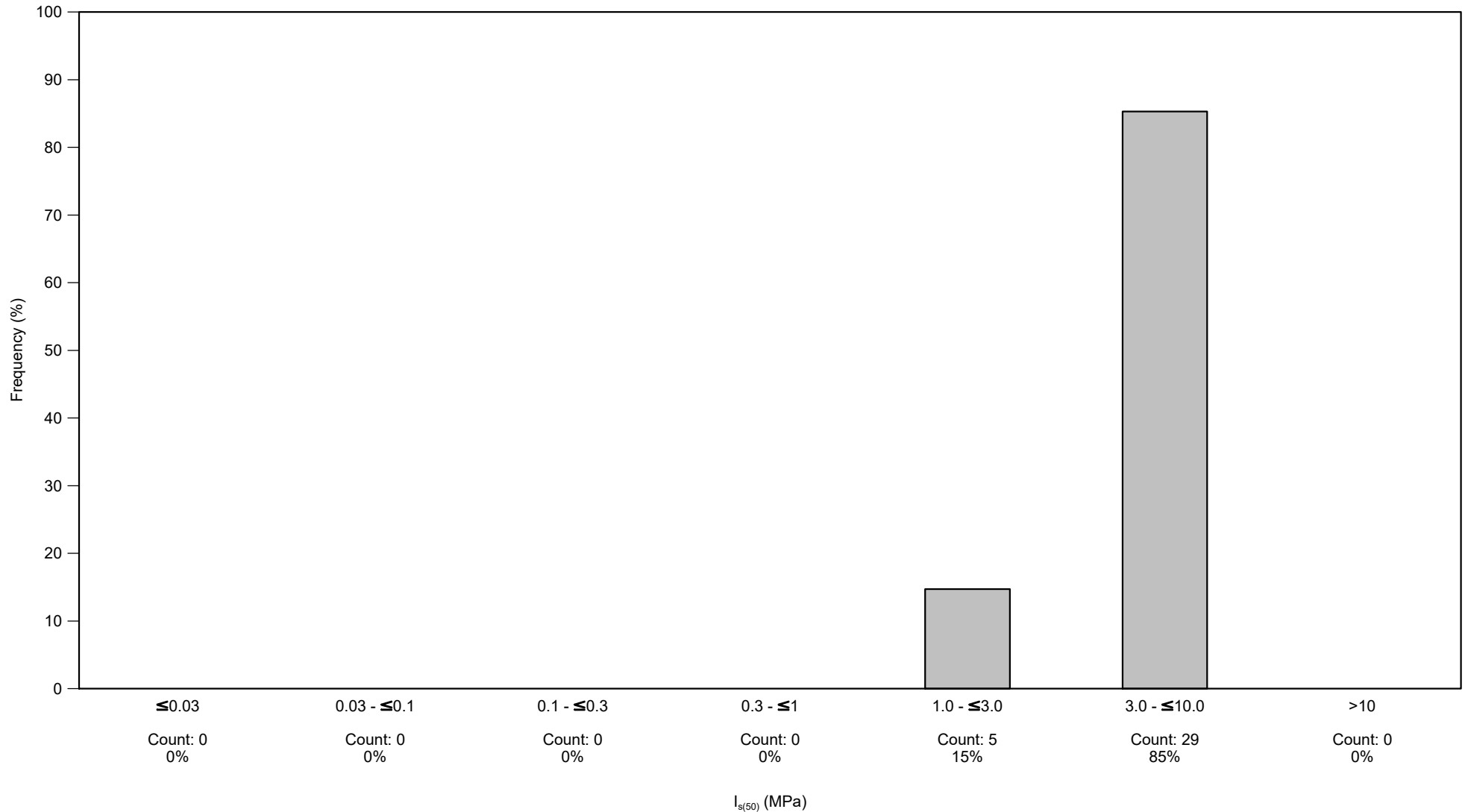
Soil and Rock Dry Density, ρ_d (Mg/m³)

Count: 130
 Mean: 1.46
 Minimum: 0.86
 Maximum: 2.25
 Standard Deviation: 0.35



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Soil and Rock Dry Density Histogram

DRAWN	DATE	9/9/2020
CHECKED	DATE	9/9/2020
SCALE	Not to Scale	
PROJECT No	5.03.1	
FIGURE No	A4	

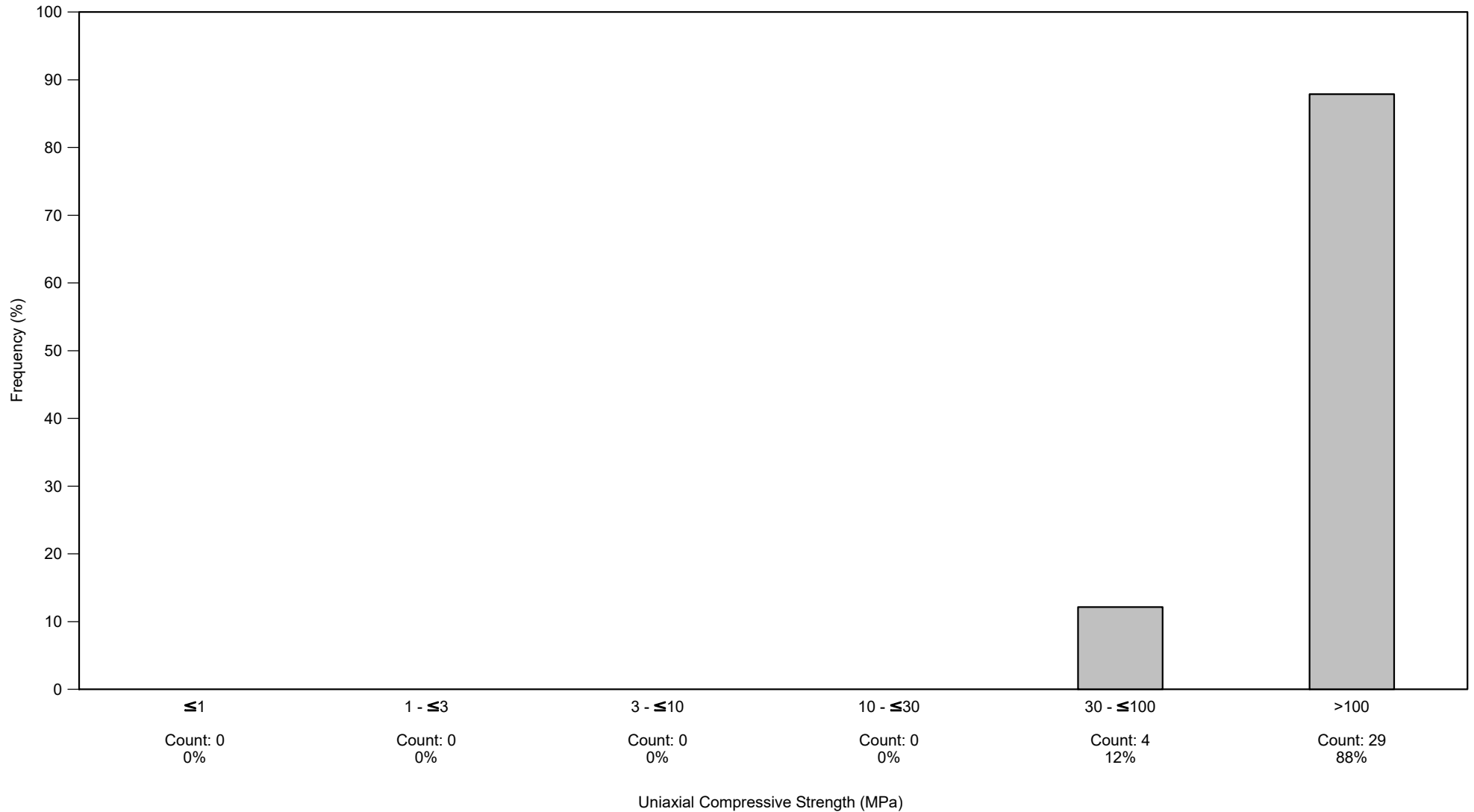


Count: 34
 Mean: 5.41
 Minimum: 1.00
 Maximum: 9.00
 Standard Deviation: 2.38



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Point Load Index Histogram

DRAWN	DATE	9/9/2020
CHECKED	DATE	9/9/2020
SCALE	Not to Scale	
PROJECT No	5.03.1	
FIGURE No	A4	



Count: 33
 Mean: 148.00
 Minimum: 50.00
 Maximum: 285.00
 Standard Deviation: 51.34



TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 UCS Histogram

DRAWN	DATE	9/9/2020
CHECKED	DATE	9/9/2020
SCALE	Not to Scale	
PROJECT No	5.03.1	
FIGURE No	A4	

DGD1-F-5.03.2 LIB.GLB.Gi.ctb A.L.G.RESULTS.SUMMARY.1 AAL DGD1-F-5.03.2.GPJ <DrawingFile> 9/9/2020 16:59 10.01.00.11 DatgelLab and In Situ Tool - DGD1 Lib: DGD1-F-5.03.2.2020-09-08.Plt DGD1-DLIST.5.03.1.2020-09-05























Sample Identification				Moisture Content		Density			Particle Size Distribution				Atterberg Limits			Chemical Analysis						Oedometer Consolidation				Triaxial				Shear Box		Rock Properties						
PointID	Sample No.	Sample Type	Depth (m)	Natural Moisture Content (%)	Moisture Content (%)	Particle Density (Mg/m ³)	Dry Density (Mg/m ³)	Bulk Density (Mg/m ³)	Cobbles (%)	Gravel (%)	Sand (%)	Silt Clay (%)	LL (%)	PL (%)	PI (%)	Acid Soluble		Water Soluble		Total		pH	Organic Matter Content (%)	Initial Void Ratio e _s	Compression Index C _c	Preconsolidation Pressure p _c (kPa)	Test Type	Undrained Shear Strength (kPa)	Cohesion Intercept c' (kPa)	Angle of Friction φ (deg)	Peak		UCS (MPa)	E Modulus (MPa)	Point Load Index		Porosity (%)	
																Chloride as Cl (%)	Sulphate as SO ₃ (%)	Chloride as Cl (%)	Sulphate as SO ₃ (%)	Chloride as Cl (%)	Sulphate as SO ₃ (%)										Cohesion Intercept c' (kPa)	Angle of Friction φ (deg)			Axial I _{s20} (MPa)	Diametral I _{s20} (MPa)		
ST/1090A	TW1	TW	3.00	20.3		2.69	1.49	1.79			28.7	71.3	22.4	19.3	3.1							6.00		1.03			CU	150	0.0	35.0			100.00	20				
ST/1090A	TW1	TW	3.50						0	0.7	90.7	8.6	34.9	21.9	13.0									0.93														
ST/1090A	TW1	TW	3.70						13	15.7	56.5	14.8												1.00														
ST/1090A	TW2	TW	4.00										24.5	29.6	-5.1									1.34			CD		0.0	30.5			125.00	25				
ST/1090A	TW2	TW	4.00	35.0			1.28	1.73	0	0	22.8	77.2	66.0	40.0	26.0									1.20	0.30	300.0												
ST/1090A	TW3	TW	5.00	37.0			2.68	1.27	1.74	0	0	16.1	83.9	62.0	36.0	26.0								1.01										175.00	50			
ST/1090A	TW4	TW	6.00							0	0	71	29	30.4	21.1	9.3									0.88			CU	45	13.0	33.0							
ST/1090A	TW4	TW	6.00	38.0			1.27	1.75	0	0	17.1	82.9	65.0	38.0	27.0												UU	134										
ST/1090A	TW4	TW	6.45																								UU	134										
ST/1090A	TW5	TW	7.00							0	0	36	64	22.5	17.8	4.7	1.10	2.50									CD		0.0	30.0								
ST/1090A	TW5	TW	7.00	38.0			2.70	1.29	1.78	0	0	24.7	75.3	67.0	37.0	30.0							12.2										250.00	75				
ST/1090A	TW6	TW	8.00	35.0			1.27	1.71			27.7	72.3	65.0	39.0	26.0																							
ST/1090A	TW7	TW	9.00	40.0			2.69	1.24	1.74	0	0	35.1	64.9	69.0	39.0	30.0																						
ST/1090A	TW8	TW	10.00							0	0	86	14	33.4	22.8	10.6												CD		10.0	36.0							
ST/1090A	TW8	TW	10.00	37.0			1.28	1.75	0	0	17.1	82.9	58.0	38.0	20.0									1.17	0.35	280.0							275.00	85				
ST/1090A	TW9	TW	11.00	34.0			2.71	1.28	1.71			43	57	60.0	36.0	24.0																						
ST/1090A	TW10	TW	12.00							0	99.8	175	0	34.0	21.0	13.0												CU	80	0.0	28.0							
ST/1090A	TW10	TW	12.00	38.0			1.28	1.77	0	0	27.5	72.5	60.0	39.0	21.0																							
ST/1090A	TW10	TW	12.45																								UU	75										
ST/1090A	TW11	TW	13.00							0	93.9	58.3	0															CU	56	0.0	38.0							
ST/1090A	TW11	TW	13.00	37.0			2.68	1.29	1.77			36.2	63.8	53.0	34.0	19.0																						
ST/1090A	TW11	TW	13.45																									CD		0.0	31.0							
ST/1090A	TW12	TW	14.00	35.0			1.34	1.81			43.3	56.7	58.0	37.0	21.0									1.04	0.32	370.0												
ST/1090A	TW13	TW	15.00						0	84.8	136.1	0																CU	98	0.0	30.0							
ST/1090A	TW13	TW	15.00	37.0			2.70	1.29	1.77			36.2	63.8	55.0	34.0	21.0																						
ST/1090A	TW13	TW	15.45																								UU	78										
ST/1090A	TW14	TW	16.00	49.0			1.13	1.68	0	0	88	12	60.0	39.0	21.0																							
ST/1090A	TW15	TW	17.00						0	0	92	8																CD		12.0	32.0							
ST/1090A	TW15	TW	17.00	49.0			2.72	1.15	1.72	0	0	3.8	96.2	69.0	40.0	29.0																						
ST/1090A	TW16	TW	18.00						0	0	98.8	1.2																CU	110	0.0	31.0							
ST/1090A	TW16	TW	18.00	51.0			1.11	1.67	0	0	4.7	95.3	69.0	39.0	30.0																							
ST/1090A	TW16	TW	18.45																									UU	112									
ST/1090A	TW17	TW	19.00	51.0			2.69	1.13	1.71	0	0	3.8	96.2	65.0	38.0	27.0																						
ST/1090A	TW18	TW	20.00						0	43.5	50.1	6.4																CU	67	0.0	36.0							
ST/1090A	TW18	TW	20.00	31.0			1.34	1.75			37.1	62.9	52.0	33.0	19.0																							
ST/1090A	TW18	TW	20.45						0	96.8	155.6	0																CD		0.0	33.0							

PointID	SAMP_Depth	SAMP_REF	SAMP_TYPE	Depth	SPEC_REF	Reading	Percent_Passing	SPEC_PAS1	Remark
ST/1162A/PZW	4	TW1	TW	4	1	0.002	26		
ST/1162A/PZW	4	TW1	TW	4	1	0.063	37		
ST/1162A/PZW	5	TW2	TW	5	2	0.002	92		
ST/1162A/PZW	5	TW2	TW	5	2	0.063	28		
ST/1162A/PZW	5	TW2	TW	5	2	0.063	38		
ST/1162A/PZW	5	TW2	TW	5	2	0.063	90		
ST/1162A/PZW	6	TW3	TW	6	3	0.002	26		
ST/1162A/PZW	6	TW3	TW	6	3	0.063	44		
ST/1162A/PZW	6	TW3	TW	6	3	0.063	90		
ST/1162A/PZW	7	TW4	TW	7	4	0.002	31		
ST/1162A/PZW	7	TW4	TW	7	4	0.063	66		
ST/1162A/PZW	8	TW5	TW	8	5	0.002	25		
ST/1162A/PZW	8	TW5	TW	8	5	0.063	25		
ST/1162A/PZW	8	TW5	TW	8	5	0.063	16		
ST/1162A/PZW	9	TW6	TW	9	6	0.002	26		
ST/1162A/PZW	9	TW6	TW	9	6	0.063	79		
ST/1162A/PZW	10	TW7	TW	10	7	0.002	29		
ST/1162A/PZW	10	TW7	TW	10	7	0.063	82		
ST/1162A/PZW	11	TW8	TW	11	8	0.002	26		
ST/1162A/PZW	11	TW8	TW	11	8	0.063	16		
ST/1162A/PZW	12	TW9	TW	12	9	0.002	25		
ST/1162A/PZW	12	TW9	TW	12	9	0.063	86		
ST/1162A/PZW	13	TW10	TW	13	10	0.002	96		
ST/1162A/PZW	14	PS1	P	14	11	0.002	38		
ST/1162A/PZW	14	PS1	P	14	11	0.063	77		
ST/1162A/PZW	14	PS1	P	14	11	0.063	45		
ST/1162A/PZW	15	PS2	P	15	12	0.002	94		
ST/1162A/PZW	15	PS2	P	15	12	0.063	51		
ST/1162A/PZW	16	PS3	P	16	13	0.002	100		
ST/1162A/PZW	16	PS3	P	16	13	0.063	100		
ST/1162A/PZW	17	PS4	P	17	14	0.002	100		
ST/1162A/PZW	17	PS4	P	17	14	0.063	100		
ST/1162A/PZW	18	PS5	P	18	15	0.002	100		
ST/1162A/PZW	18	PS5	P	18	15	0.063	100		
ST/1162A/PZW	19	PS6	P	19	16	0.002	100		
ST/1162A/PZW	19	PS6	P	19	16	0.063	100		
ST/1162A/PZW	20	PS7	P	20	17	0.002	52		
ST/1162A/PZW	20	PS7	P	20	17	0.063	100		
ST/1162A/PZW	21	PS8	P	21	18	0.002	100		
ST/1162A/PZW	21	PS8	P	21	18	0.063	100		
ST/1162A/PZW	22	PS9	P	22	19	0.002	53		
ST/1162A/PZW	22	PS9	P	22	19	0.063	100		
ST/1162A/PZW	23	PS10	P	23	20	0.002	100		
ST/1162A/PZW	23	PS10	P	23	20	0.063	100		
ST/1162A/PZW	24	PS11	P	24	21	0.002	51		
ST/1162A/PZW	24	PS11	P	24	21	0.063	100		
ST/1162A/PZW	24	PS11	P	24	21	0.063	100		
ST/1162A/PZW	25	TW11	TW	25	22	0.002	51		
ST/1162A/PZW	25	TW11	TW	25	22	0.063	100		
ST/1162A/PZW	26	TW12	TW	26	23	0.002	100		
ST/1162A/PZW	26	TW12	TW	26	23	0.063	100		
ST/1162A/PZW	26	TW12B	TW	26	23	0.002	49		
ST/1162A/PZW	26	TW12B	TW	26	23	0.063	100		
ST/1162A/PZW	27	TW13	TW	27	24	0.002	95		
ST/1162A/PZW	27	TW13	TW	27	24	0.063	100		
ST/1162A/PZW	28	TW14	TW	28	25	0.002	91		
ST/1162A/PZW	28	TW14	TW	28	25	0.063	50		
ST/1162A/PZW	29	TW15	TW	29	26	0.002	95		
ST/1162A/PZW	29	TW15	TW	29	26	0.063	100		
ST/1162A/PZW	30	TW16	TW	30	27	0.002	100		
ST/1162A/PZW	30	TW16	TW	30	27	0.063	100		
ST/1162A/PZW	31	PS12	P	31	28	0.002	51		
ST/1162A/PZW	31	PS12	P	31	28	0.063	100		
ST/1162A/PZW	32	PS13	P	32	29	0.002	52		
ST/1162A/PZW	32	PS13	P	32	29	0.063	100		
ST/1162A/PZW	33	PS14	P	33	30	0.002	52		
ST/1162A/PZW	33	PS14	P	33	30	0.063	100		
ST/1162A/PZW	34	PS15	P	34	31	0.002	55		
ST/1162A/PZW	34	PS15	P	34	31	0.063	100		
ST/1162A/PZW	35	PS16	P	35	32	0.002	56		
ST/1162A/PZW	35	PS16	P	35	32	0.063	100		
ST/1162A/PZW	36	PS17	P	36	33	0.002	57		
ST/1162A/PZW	36	PS17	P	36	33	0.063	100		
ST/1162A/PZW	37	PS18	P	37	34	0.002	52		
ST/1162A/PZW	37	PS18	P	37	34	0.063	100		
ST/1162A/PZW	38	TW17	TW	38	35	0.002	100		
ST/1162A/PZW	38	TW17	TW	38	35	0.063	100		
ST/1162A/PZW	39	TW18	TW	39	36	0.002	51		
ST/1162A/PZW	39	TW18	TW	39	36	0.063	100		
ST/1162A/PZW	40	TW19	TW	40	37	0.002	46		
ST/1162A/PZW	40	TW19	TW	40	37	0.063	100		
ST/1162A/PZW	41	TW20	TW	41	38	0.002	42		
ST/1162A/PZW	41	TW20	TW	41	38	0.063	100		
ST/1162A/PZW	42	TW21	TW	42	39	0.002	34		
ST/1162A/PZW	42	TW21	TW	42	39	0.063	98		
ST/1162A/PZW	43	TW22	TW	43	40	0.002	37		
ST/1162A/PZW	43	TW22	TW	43	40	0.063	97		
ST/1162A/PZW	44	TW23	TW	44	41	0.002	39		
ST/1162A/PZW	44	TW23	TW	44	41	0.063	98		
ST/1162A/PZW	45	TW24	TW	45	42	0.002	100		
ST/1162A/PZW	45	TW24	TW	45	42	0.063	97		
ST/1162A/PZW	46	TW25	TW	46	43	0.002	46		
ST/1162A/PZW	46	TW25	TW	46	43	0.063	91		
ST/1162A/PZW	47	TW26	TW	47	44	0.002	42		
ST/1162A/PZW	47	TW26	TW	47	44	0.063	81		
ST/1162A/PZW	48	TW27	TW	48	45	0.002	100		
ST/1162A/PZW	48	TW27	TW	48	45	0.063	87		
ST/1162A/PZW	49	TW28	TW	49	46	0.002	100		
ST/1162A/PZW	49	TW28	TW	49	46	0.063	88		
ST/1162A/PZW	50	TW29	TW	50	47	0.002	43		
ST/1162A/PZW	50	TW29	TW	50	47	0.063	86		
ST/1162A/PZW	51	TW30	TW	51	48	0.002	100		
ST/1162A/PZW	51	TW30	TW	51	48	0.063	67		
ST/1162A/PZW	52	M21	M	52	49	0.002	30		
ST/1162A/PZW	52	M21	M	52	49	0.063	78		
ST/1162A/PZW	53	M22	M	53	50	0.002	7		
ST/1162A/PZW	53	M22	M	53	50	0.063	29		
ST/1162A/PZW	54	M23	M	54	51	0.002	96		
ST/1162A/PZW	54	M23	M	54	51	0.063	9		
ST/1162A/PZW	55	M24	M	55	52	0.002	3		
ST/1162A/PZW	55	M24	M	55	52	0.063	22		
ST/1162A/PZW	56	M25	M	56	53	0.002	8		
ST/1162A/PZW	56	M25	M	56	53	0.063	20		
ST/1162A/PZW	57	M25	M	57	54	0.002	88		
ST/1162A/PZW	57	M25	M	57	54	0.063	88		









Client: Datgel
 Project: Construction Project
 Location: Somewhere, World
 Number: 5.03.1

PointID	Sample Number	Sample Type	Depth	D100	D60	D50	D30	D10	Cc	Cu	DMF	%Boulders	%Cobbles	%Gravel	%Sand	%Silt	%Fines	%Clay
ST/1162A/PZW	TW1	TW	4.00		0.267	0.143	0.00701	0.000100	1.838	2675					60.2	13.8	39.8	26.0
ST/1162A/PZW	TW2	TW	5.00		0.272	0.140	0.00399	0.000100	0.5844	2721					59.4	12.6	40.6	28.0
ST/1162A/PZW	TW3	TW	6.00		0.210	0.0989	0.00431	0.000100	0.8837	2097					53.7	20.3	46.3	26.0
ST/1162A/PZW	TW4	TW	7.00		0.390	0.208	0.0483	0.000239	25.01	1630					66.2	15.8	33.8	18.0
ST/1162A/PZW	TW5	TW	8.00		0.618	0.322	0.0873	0.000201	61.50	3082					72.3	11.7	27.7	16.0
ST/1162A/PZW	TW6	TW	9.00		0.579	0.302	0.0818	0.000252	45.77	2294					71.3	12.7	28.7	16.0
ST/1162A/PZW	TW7	TW	10.00		0.476	0.248	0.0672	0.000163	58.39	2926					68.3	13.7	31.7	18.0
ST/1162A/PZW	TW8	TW	11.00		0.433	0.246	0.0790	0.000417	34.62	1038					70.9	14.1	29.1	15.0
ST/1162A/PZW	TW9	TW	12.00		0.458	0.260	0.0836	0.000201	76.16	2285					71.9	12.1	28.1	16.0
ST/1162A/PZW	TW10	TW	13.00		0.509	0.348	0.163	0.0762	0.6839	6.685					90.4	4.6	9.6	
ST/1162A/PZW	PS1	P	14.00	2.00	0.0140	0.00578					0.06664	0.0	0.0	0.0	21.8	40.2	78.2	38.0
ST/1162A/PZW	PS2	P	15.00	2.00	0.00575	0.00284					0.01014	0.0	0.0	0.0	5.7	49.3	94.3	45.0
ST/1162A/PZW	PS3	P	16.00	0.0630	0.00377						0.006440	0.0	0.0	0.0	0.0	49.0	100.0	51.0
ST/1162A/PZW	PS4	P	17.00	0.0630	0.00377						0.006440	0.0	0.0	0.0	0.0	49.0	100.0	51.0
ST/1162A/PZW	PS5	P	18.00	0.0630	0.00334						0.006118	0.0	0.0	0.0	0.0	47.0	100.0	53.0
ST/1162A/PZW	PS6	P	19.00	0.0630	0.00377						0.006440	0.0	0.0	0.0	0.0	49.0	100.0	51.0
ST/1162A/PZW	PS7	P	20.00	0.0630	0.00355						0.006279	0.0	0.0	0.0	0.0	48.0	100.0	52.0
ST/1162A/PZW	PS8	P	21.00	0.0630	0.00355						0.006279	0.0	0.0	0.0	0.0	48.0	100.0	52.0
ST/1162A/PZW	PS9	P	22.00	0.0630	0.00334						0.006118	0.0	0.0	0.0	0.0	47.0	100.0	53.0
ST/1162A/PZW	PS10	P	23.00	0.0630	0.00377						0.006440	0.0	0.0	0.0	0.0	49.0	100.0	51.0
ST/1162A/PZW	PS11	P	24.00	0.0630	0.00377						0.006440	0.0	0.0	0.0	0.0	49.0	100.0	51.0
ST/1162A/PZW	TW11	TW	25.00	0.0630	0.00377						0.006440	0.0	0.0	0.0	0.0	49.0	100.0	51.0
ST/1162A/PZW	TW12T	TW	26.00	0.0630	0.00443	0.00228					0.007165	0.0	0.0	0.0	0.0	52.0	100.0	48.0
ST/1162A/PZW	TW12B	TW	26.45	2.00	0.00456	0.00216					0.008904	0.0	0.0	0.0	4.7	46.3	95.3	49.0
ST/1162A/PZW	TW13	TW	27.00	2.00	0.00355						0.007977	0.0	0.0	0.0	4.7	42.3	92.3	53.0
ST/1162A/PZW	TW14	TW	28.00	2.00	0.00524	0.00235					0.01150	0.0	0.0	0.0	8.5	43.5	91.5	48.0
ST/1162A/PZW	TW15	TW	29.00	2.00	0.00431	0.00200					0.008718	0.0	0.0	0.0	4.7	45.3	95.3	50.0
ST/1162A/PZW	TW16	TW	30.00	0.0630	0.00334						0.006118	0.0	0.0	0.0	0.0	47.0	100.0	53.0
ST/1162A/PZW	PS12	P	31.00	0.0630	0.00377						0.006440	0.0	0.0	0.0	0.0	49.0	100.0	51.0
ST/1162A/PZW	PS13	P	32.00	0.0630	0.00355						0.006279	0.0	0.0	0.0	0.0	48.0	100.0	52.0
ST/1162A/PZW	PS14	P	33.00	0.0630	0.00355						0.006279	0.0	0.0	0.0	0.0	48.0	100.0	52.0
ST/1162A/PZW	PS15	P	34.00	0.0630	0.00293						0.005790	0.0	0.0	0.0	0.0	45.0	100.0	55.0
ST/1162A/PZW	PS16	P	35.00	0.0630	0.00274						0.005625	0.0	0.0	0.0	0.0	44.0	100.0	56.0
ST/1162A/PZW	PS17	P	36.00	0.0630	0.00254						0.005458	0.0	0.0	0.0	0.0	43.0	100.0	57.0
ST/1162A/PZW	PS18	P	37.00	0.0630	0.00355						0.006279	0.0	0.0	0.0	0.0	48.0	100.0	52.0
ST/1162A/PZW	TW17	TW	38.00	0.0630	0.00377						0.006440	0.0	0.0	0.0	0.0	49.0	100.0	51.0
ST/1162A/PZW	TW18	TW	39.00	0.0630	0.00377						0.006440	0.0	0.0	0.0	0.0	49.0	100.0	51.0
ST/1162A/PZW	TW19	TW	40.00	0.0630	0.00489	0.00258					0.007506	0.0	0.0	0.0	0.0	54.0	100.0	46.0
ST/1162A/PZW	TW20	TW	41.00	0.0630	0.00583	0.00322					0.008173	0.0	0.0	0.0	0.0	58.0	100.0	42.0
ST/1162A/PZW	TW21	TW	42.00	2.00	0.00812	0.00474					0.01048	0.0	0.0	0.0	1.9	64.1	98.1	34.0
ST/1162A/PZW	TW22	TW	43.00	2.00	0.00751	0.00422					0.01036	0.0	0.0	0.0	2.8	60.2	97.2	37.0
ST/1162A/PZW	TW23	TW	44.00	2.00	0.00683	0.00381					0.009607	0.0	0.0	0.0	1.9	59.1	98.1	39.0
ST/1162A/PZW	TW24	TW	45.00	2.00	0.00516	0.00262					0.008567	0.0	0.0	0.0	2.8	51.2	97.2	46.0
ST/1162A/PZW	TW25	TW	46.00	2.00	0.00585	0.00272					0.01185	0.0	0.0	0.0	8.5	45.5	91.5	46.0
ST/1162A/PZW	TW26	TW	47.00	2.00	0.00983	0.00406					0.04661	0.0	0.0	0.0	18.0	40.0	82.0	42.0
ST/1162A/PZW	TW27	TW	48.00	2.00	0.00578	0.00239					0.02178	0.0	0.0	0.0	12.3	39.7	87.7	48.0
ST/1162A/PZW	TW28	TW	49.00	2.00	0.00563	0.00238					0.01834	0.0	0.0	0.0	11.4	40.6	88.6	48.0
ST/1162A/PZW	TW29	TW	50.00	2.00	0.00836	0.00360					0.03408	0.0	0.0	0.0	15.2	41.8	84.8	43.0
ST/1162A/PZW	TW30	TW	51.00	2.00	0.0369	0.0195	0.00490	0.00123	0.5016	31.50	0.1234	0.0	0.0	0.0	31.3	51.7	68.7	17.0
ST/1162A/PZW	MZ1	M	52.00	2.00	0.0173	0.00842	0.00200	0.000475	0.4874	36.37	0.06326	0.0	0.0	0.0	20.9	49.1	79.1	30.0
ST/1162A/PZW	MZ2	M	53.00		0.312	0.186	0.0663	0.00320	4.406	97.46					67.6	25.4	32.4	7.0
ST/1162A/PZW	MZ3	M	55.00		0.347	0.216	0.0837	0.00563	3.590	61.57					72.3	23.7	27.7	4.0
ST/1162A/PZW	MZ4	M	56.00		0.355	0.225	0.0907	0.00713	3.248	49.79					74.2	22.8	25.8	3.0
ST/1162A/PZW	MZ5	M	57.00		0.482	0.290	0.105	0.00355	6.411	135.5					76.6	15.4	23.4	8.0

LITHOLOGIC SYMBOLS

-  TOPSOIL: TOPSOIL
-  ASPHALT: ASPHALT
-  MADE GROUND: MADE GROUND
-  CONCRETE: CONCRETE
-  No Core: No Core
-  FILL: FILL
-  CLAY: CLAY
-  CH: CH - High Plasticity CLAY
-  CLAY or: Organic CLAY
-  CLAY si: Silty CLAY
-  CLAY si sa: Silty sandy CLAY
-  CLAY si sa or: Silty sandy organic CLAY
-  CL: CL - Low Plasticity CLAY
-  CLAY sa: Sandy CLAY
-  SILT: SILT
-  MH-OH: MH-OH - High Plasticity SILT to High Plasticity ORGANIC CLAYS and SILTS
-  SILT cl: Clayey SILT
-  ML: ML - Low Plasticity SILT
-  SILT sa: Sandy SILT
-  SAND: SAND
-  SW-SM: SW-SM - Well Graded SAND to Silty SAND
-  SAND cl: Clayey SAND

SAMPLER SYMBOLS

-  Amalgamated sample
-  Bulk disturbed sample
-  Block sample
-  Core sample
-  CBR mould sample
-  Small disturbed sample
-  Soil sample for environmental testing
-  Gas sample

BACKFILL SYMBOLS



















































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TITLE
 Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Symbol Key

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE			A4
PROJECT No	5.03.1	FIGURE No	354

LITHOLOGIC SYMBOLS

	TOPSOIL		ASPHALT
	MADE GROUND		CONCRETE
	No Core		FILL
	CLAY		CH - High Plasticity CLAY
	Organic CLAY		Silty CLAY
	Silty sandy CLAY		Silty sandy organic CLAY
	CL - Low Plasticity CLAY		Sandy CLAY
	SILT		MH-OH - High Plasticity SILT to High Plasticity ORGANIC CLAYS and SILTS
	Clayey SILT		ML - Low Plasticity SILT
	Sandy SILT		SAND
	SW-SM - Well Graded SAND to Silty SAND		Clayey SAND
	Clayey silty SAND		Silty SAND
	SC - Clayey SAND		Gravelly SAND
	SM - Silty SAND		SP - Poorly Graded SAND
	SC-SM - Clayey SAND to Silty SAND		Clayey GRAVEL
	Sandy GRAVEL		PEAT
	ARGILLITE, ARGILLACEOUS LIMESTONE		SILTSTONE
	SANDSTONE		MUDDY SANDSTONE
	BRECCIA		CONGLOMERATE
	LIMESTONE		COAL
	SANDSTONE		SHALE
	QUARTZITE		SERPENTINE, ECLOGITE
	ANDESITE, TRACHYTE, LATITE, TRACHYANDESITE		Medium grained IGNEOUS
	GRANITE		GRANITE
	BASALT		AGGLOMERATE

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TITLE
Datgel
Engineer 1
Somewhere, World
Construction Project
Symbol Key

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE			A4
PROJECT No	5.03.1	FIGURE No	355

Number of Boreholes: 122
 Total Length of Drilling: 3551.08


SAMPLING QUANTITIES:

Amalgamated sample 1
 Bulk disturbed sample 10
 Block sample 9
 Core sample 170
 CBR mould sample 2
 Concrete Core 1
 Small disturbed sample 59
 Soil sample for environmental testing 3
 Gas sample 16
 Large bulk disturbed sample (for earthworks testing) 5
 LDS 1
 Mazier type sample 23
 Piston sample 35
 Piston sample 1
 Standard Penetration Test 54
 Standard penetration test liner sample 168
 SS 1
 Thin walled push in sample 83
 AGS4/AGS 3.1: Undisturbed sample - open drive; AGS 3.1 RTA 1 246
 U100 1
 U76 1
 Thin Wall Tube Sample 1
 Thin wall open drive tube sampler 2

TESTING QUANTITIES:

Water Content: 426
 Dry Density: 172
 Atterberg Limits: 361
 Particle Distribution: 4
 Compaction: 39
 Consolidation: 69
 Direct Shear: 47

DGDTP.5.032.LIB.GLB.ChiefExec. A PROJECT SUMMARY DGDTP.5.032.2020-09-08 Proj.DGDTP-CLST.5.03.1.2020-09-05
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 <p>Datgel DATA SOLUTIONS Geotechnics • Geoenvironment • Laboratory</p>	TITLE Datgel Engineer 1 Somewhere, World Construction Project Project Statistics Summary	DRAWN	PMW	DATE	9/9/2020
		CHECKED		DATE	9/9/2020
		SCALE	NTS		A4
		PROJECT No	5.03.1	FIGURE No	356



PROJECT
 CLIENT : Datgel
 PROJECT : Construction Project
 LOCATION : Somewhere, World
 PROJECT No. : 5.03.1
 RFI No. :

DESTINATION
 AREA : Cut 123
 CH / OS : 857 / -6 m A1
 COORDS. : E 262740m N 6265984m
 ELEVATION : 25.55 m AHD

POINT LOAD TEST

ISRM: 1985

LABORATORY SPECIMEN DESCRIPTION:

SAMPLING DATA
 HOLE ID : BH 2
 HOLE TYPE : BH
 SAMPLE DEPTH : 8.05 m
 SAMPLE TYPE : C
 SAMPLE REF : 4
 SAMPLE DATE : 25/07/2006

SPECIMEN DEPTH (m)	TEST NUMBER	MOISTURE CONTENT (%)	MOISTURE CONDITION	TEST TYPE	ORIENTATION	L (mm)	W (mm)	D (mm)	D' (mm)	P (kN)	D _s (mm)	I _s (MPa)	F	I _{s(50)} (MPa)	REMARK
8.4	1		F	D	P	70		51.5		3	51.5	1.13	1.013	1.15	
8.4	2		F	A	P									1.67	
													Mean	1.41	

GENERAL REMARKS:

A total of 0 tests are performed, the highest and the lowest value are discarded. The remaining 0 are averaged. D', the platen separation at failure, is used when recorded as stated in ISRM:1985 Note 6.

A - Axial
 B - Block
 D - Diametral
 I - Irregular lump

Orientation
 L - Parallel to planes of weakness
 P - Perpendicular to planes of weakness
 IS - Isotropic

Moisture Condition
 D - Dry
 F - Field
 S - Saturated

Tested By	Tested Date
Checked By	Checked Date
Approved By	Approved Date

SPECIMEN PREPARATION:
 As defined above.

Requirement Remark

TEST METHOD:
 Point Load: ISRM Part II:1985:6
 Moisture Content: BS 1377-2:1990:3.2

DGDTP.5.03.2.LIB.GLB.GIC.TEX.L.R.POINT LOAD STRENGTH SAMPLING DGDTP.5.03.2.GPJ <<DrawingFile>> 9/9/2020 17:00 10.01.00.11 Datgel Lab and In Situ Tool - DGD [Lib:DGDTP.5.03.2.DGLST.5.03.1.2020-09-05]

Project Statistics

Project: Construction Project
Location: Somewhere, World
Number: 5.03.1

Number of Boreholes: 122
Total Length of Drilling: 3551.08

SAMPLING QUANTITIES:

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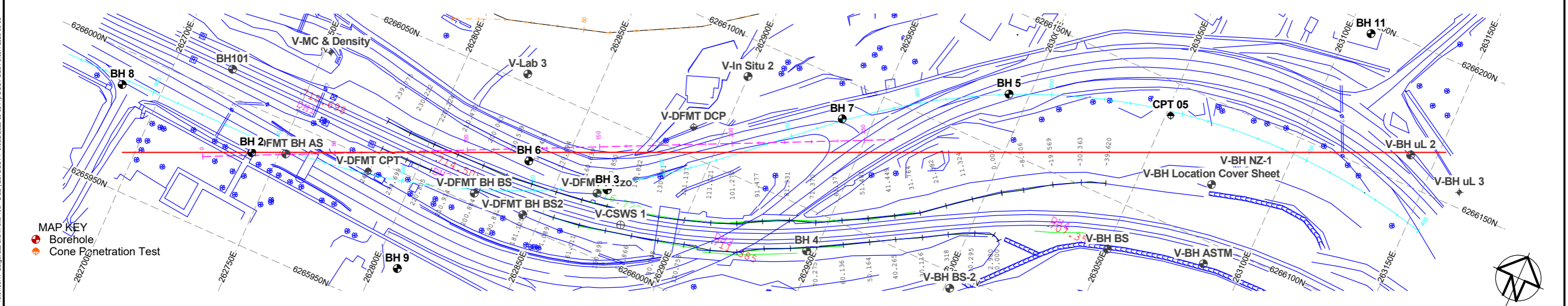
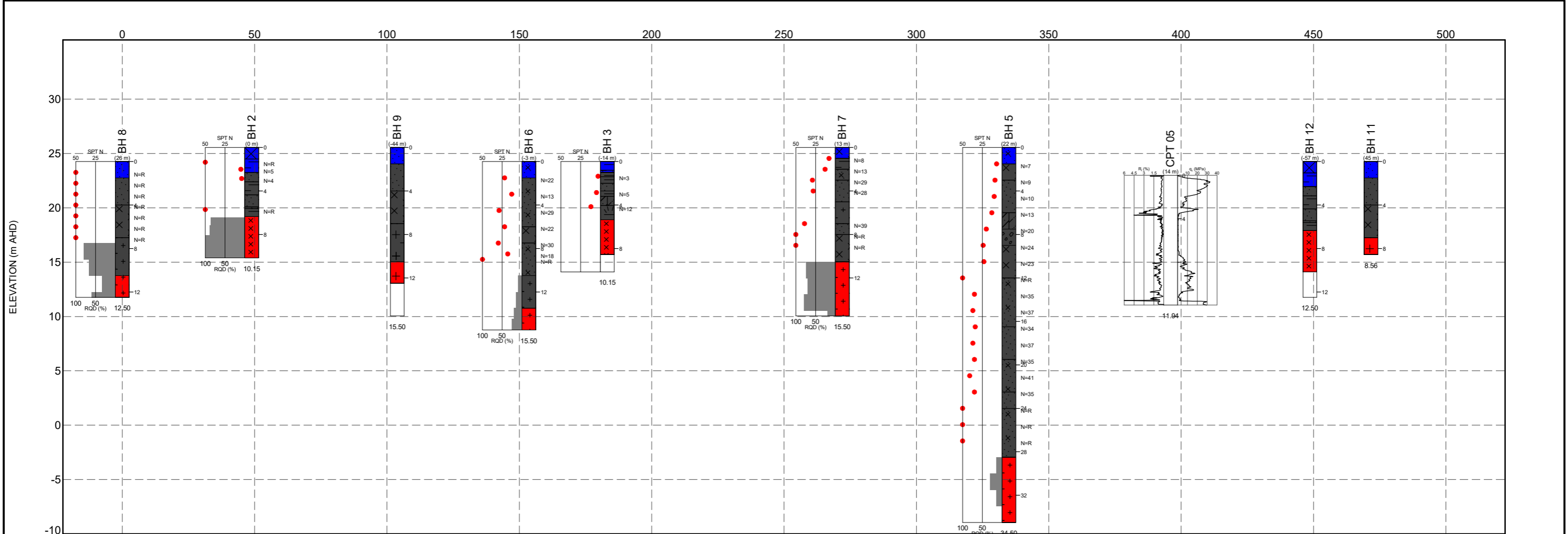
Amalgamated sample:	1
Bulk disturbed sample:	10
Block sample:	9
Core sample:	170
CBR mould sample:	2
Concrete Core:	1
Small disturbed sample:	59
Soil sample for environmental testing:	3
Gas sample:	16
Large bulk disturbed sample (for earthworks testing):	
:	1
Mazier type sample:	23
Piston sample:	35
Piston sample:	1
Standard Penetration Test:	54
Standard penetration test liner sample:	168
:	1
Thin walled push in sample:	83
AGS4/AGS 3.1: Undisturbed sample - open drive; AGS 3.1 RTA 1.1: Undisturbed push in sample:	246
:	1
:	1
Thin Wall Tube Sample:	1
Thin wall open drive tube sampler:	2

TESTING QUANTITIES:

=====

Moisture Content:	426
Dry Density:	172
Atterberg Limits:	361
Particle Size	4
Compaction:	39
Consolidation:	69
Direct Shear:	47

DGDTP-5.03.2 LIB GLOB Fence FENCE MAP A3L DGDTP-5.03.2.GPJ <DrawingFile> 9/9/2020 17:01:10.01.00.11 Datgel Lab and in Situ Tool - DGDTP-5.03.2 2020-09-08 PJL DGDTP-DLIST 5.03.1 2020-09-05



MAP KEY
 ● Borehole
 ○ Cone Penetration Test

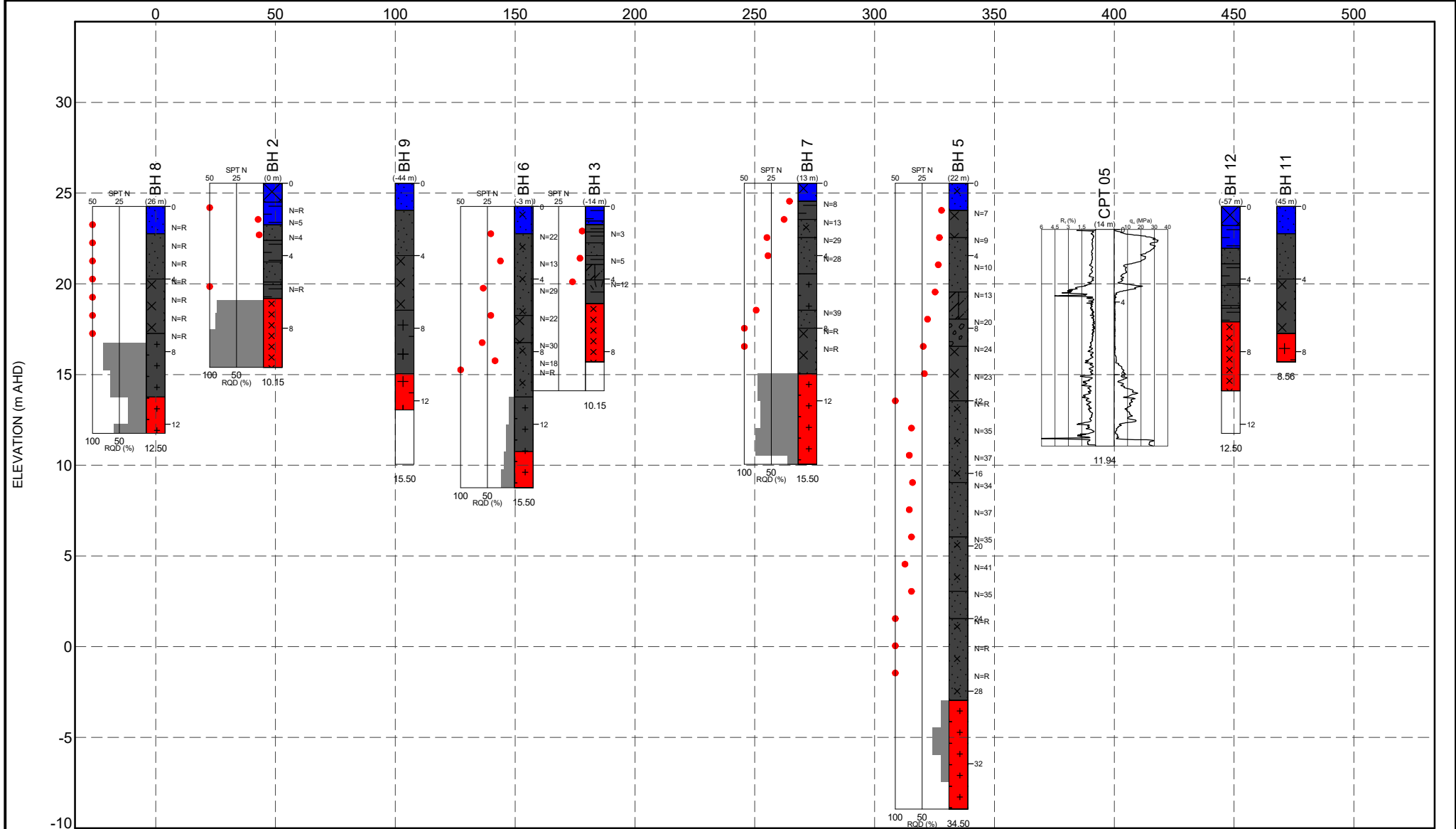
MATERIAL GRAPHIC

- | | | | | |
|--------------|-------------|-----------------------------------|-----------|---------|
| MADE GROUND | SILT | Silty SAND | PEAT | GRANITE |
| CLAY | SAND | SC-SM - Clayey SAND to Silty SAND | SILTSTONE | |
| Organic CLAY | Clayey SAND | Clayey GRAVEL | GRANITE | |

GEOLOGY UNIT 1

- Beach (Littoral)
- Unit A
- Unit R
- Unit C

 Datgel DATA SOLUTIONS Geotechnics • Geoenvironment • Laboratory	TITLE	Datgel Engineer 1 Somewhere, World Construction Project Subsurface Section		
	DRAWN	PMW	DATE	9/9/2020
	CHECKED		DATE	9/9/2020
	SCALE	H 1:1493 V 1:364		A3
PROJECT No	5.03.1	FIGURE No	359	



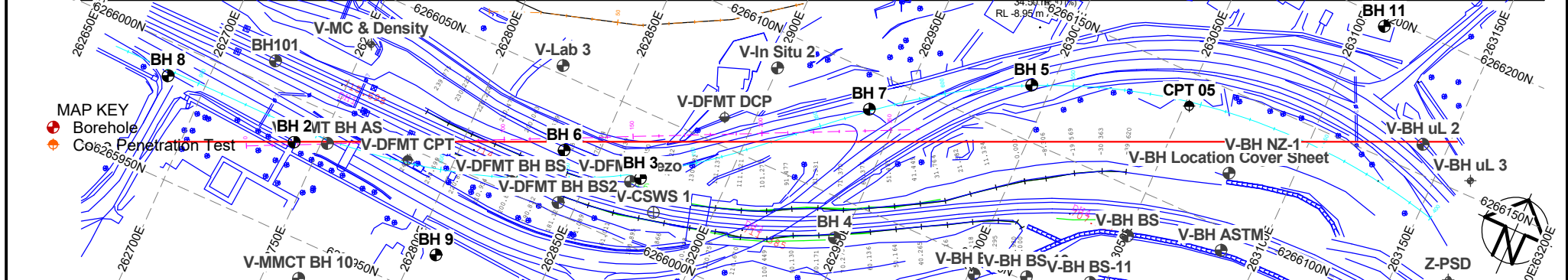
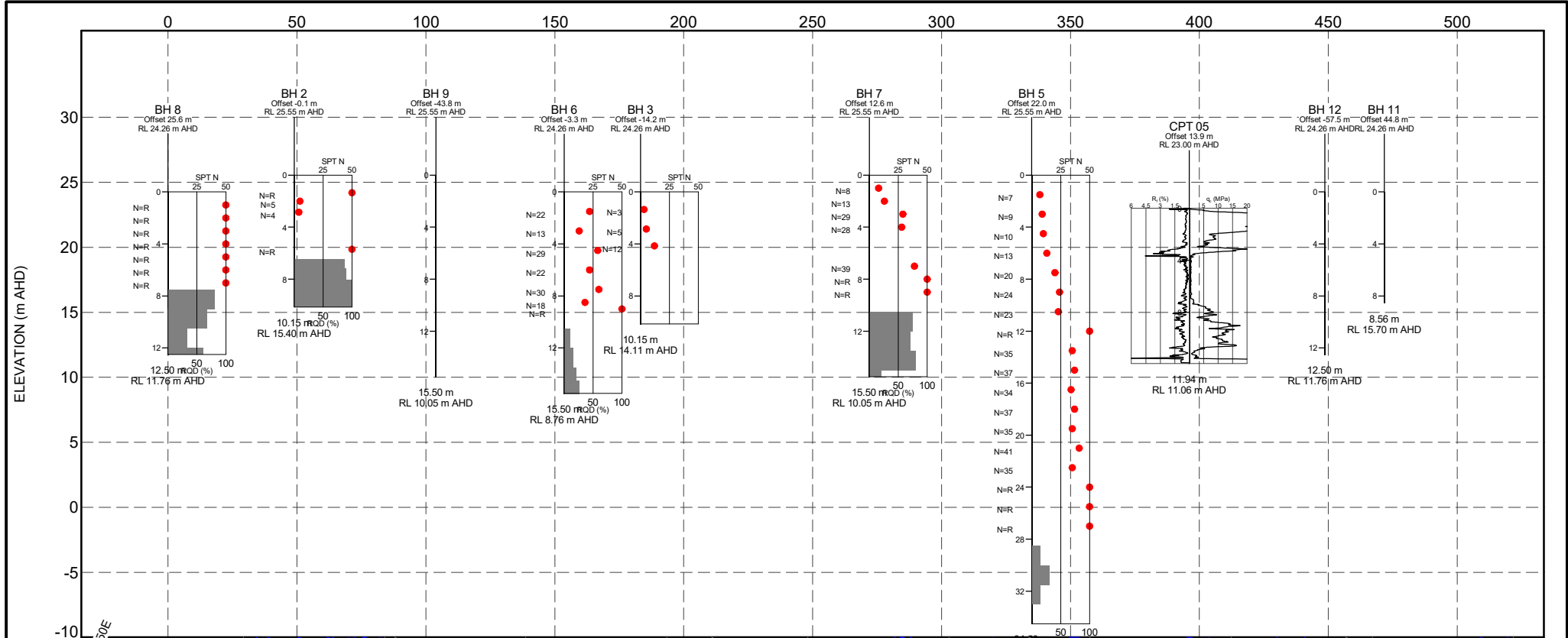
MATERIAL GRAPHIC		GEOLOGY UNIT 1	
	MADE GROUND		Beach (Littoral)
	CLAY		Unit A
	Organic CLAY		Unit R
	SILT		Unit C

Datgel
DATA SOLUTIONS
Geotechnics • Geoenvironment • Laboratory

TITLE

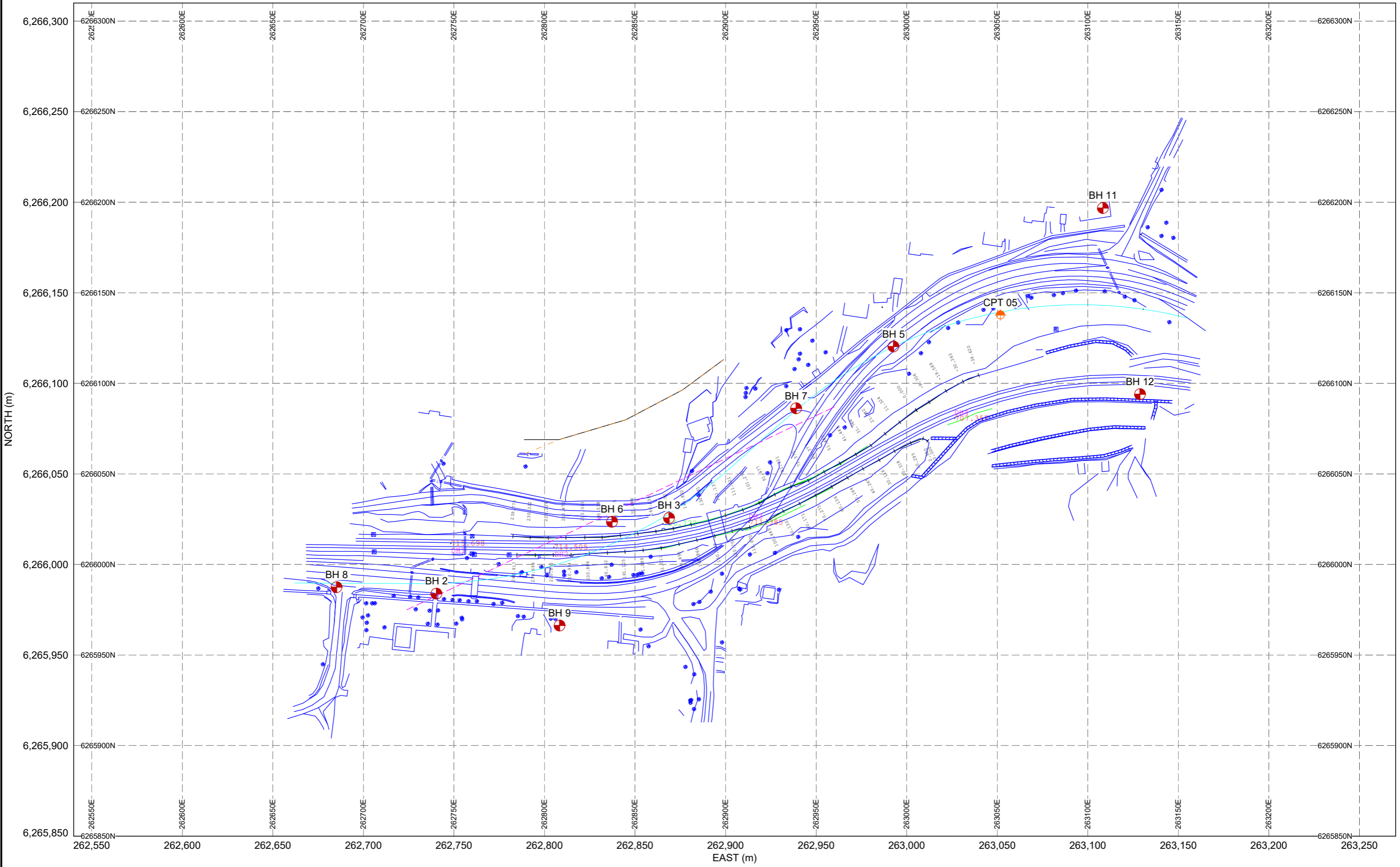
Datgel
Engineer 1
Somewhere, World
Construction Project
Subsurface Section

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	H 1:2242 V 1:296		A4
PROJECT No	5.03.1	FIGURE No	361



<p>Datgel DATA SOLUTIONS Geotechnics • Geoenvironment • Laboratory</p>	TITLE Datgel Engineer 1 Somewhere, World Construction Project Subsurface Section		DRAWN PMW	DATE 9/9/2020
			CHECKED	DATE 9/9/2020
			SCALE H 1:2242 V 1:444	A4
			PROJECT No 5.03.1	FIGURE No 362

DCDT.P.03.2.LIB.GLB_SiteMapReport MAP A3L DCDT.P.5.03.1_CAD_CrawingFile> 09/2020 17:01 10.01.00.11 Datgel Lab and in Situ Test - DCD [Lib: DCDT.P.5.03.2 2020-09-09 P1] DCDT.DLST.5.03.1 2020-09-05



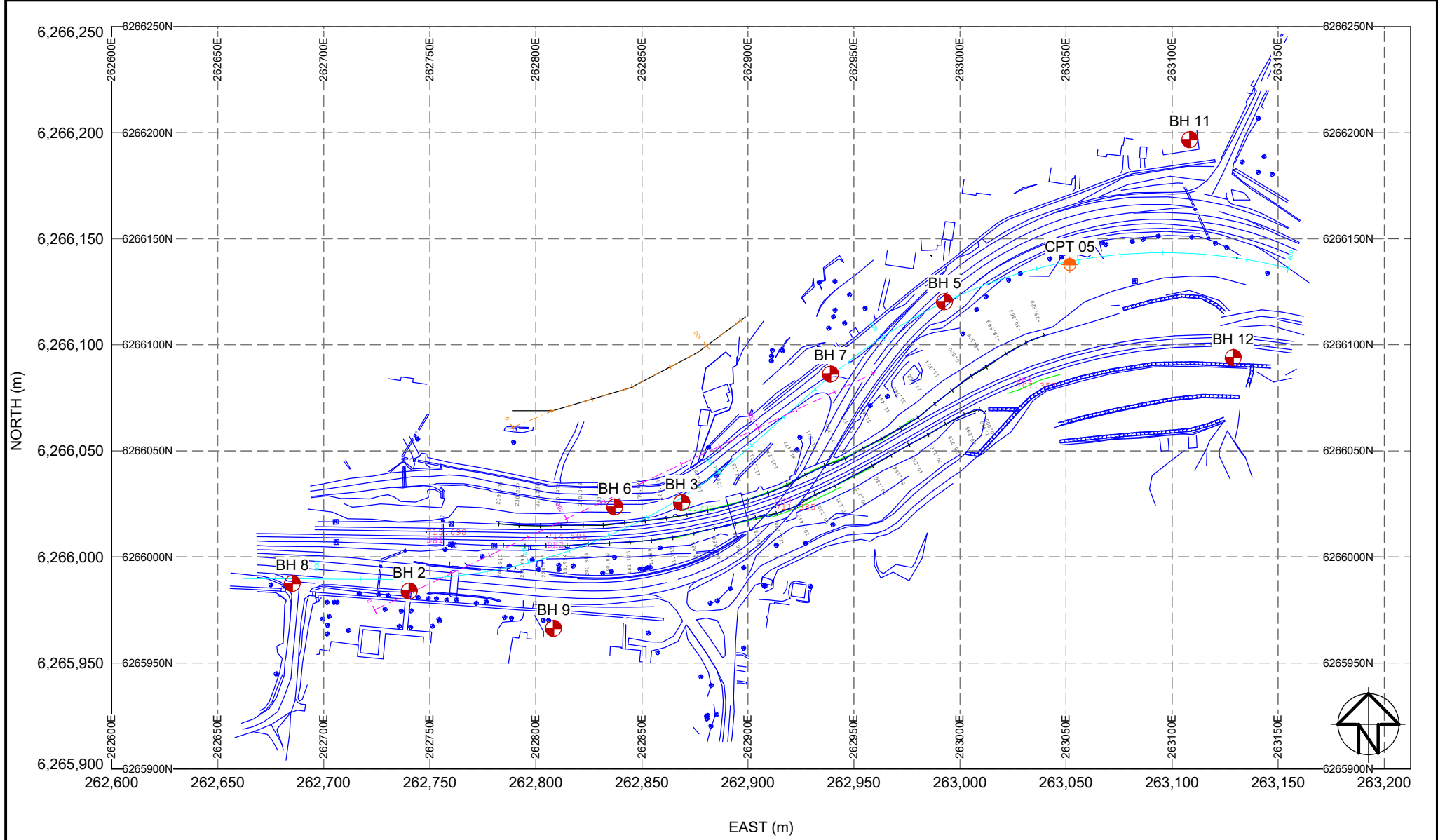
- MAP KEY**
- Borehole
 - Cone Penetration Test



TITLE

Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Site Map

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	1:2000		A3
PROJECT No	5.03.1		FIGURE No
			363



- MAP KEY**
- Borehole
 - Cone Penetration Test



TITLE

Datgel
 Engineer 1
 Somewhere, World
 Construction Project
 Site Map

DRAWN	PMW	DATE	9/9/2020
CHECKED		DATE	9/9/2020
SCALE	1:2500		A4
PROJECT No	5.03.1	FIGURE No	364