



# LABORATORY REPORT



**Contract Number: PSL23/5089**

Report Date: 04 August 2023

Client's Reference:

Client Name: NRE Aggregates Ltd  
Venus Building  
1 Old Park Lane  
Trafford City  
Manchester  
M41 7HA

**For the attention of: Jon Drabble**

Contract Title: Port Salford

Date Received: 29/6/2023

Date Commenced: 29/6/2023

Date Completed: 4/8/2023

**Notes: Opinions and Interpretations are outside the UKAS Accreditation**

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# SUMMARY OF SOIL CLASSIFICATION TESTS

(BS1377 : PART 2 : 1990)

Hole Number	Sample Number	Sample Type	Top Depth m	Base Depth m	Moisture Content % <small>Clause 3.2</small>	Linear Shrinkage % <small>Clause 6.5</small>	Particle Density Mg/m <sup>3</sup> <small>Clause 8.2</small>	Liquid Limit % <small>Clause 4.3/4</small>	Plastic Limit % <small>Clause 5.3</small>	Plasticity Index % <small>Clause 5.4</small>	Passing .425mm %	Remarks
0/4mm					15							
0/2mm					9.2							
Clay					33							

SYMBOLS : NP : Non Plastic

\* : Liquid Limit and Plastic Limit Wet Sieved.

 UKAS TESTING 4043		<h2 style="margin: 0;">Port Salford</h2>		<b>Contract No:</b> PSL23/5089	
				<b>Client Ref:</b> 28/06/2023	

# PARTICLE SIZE DISTRIBUTION TEST

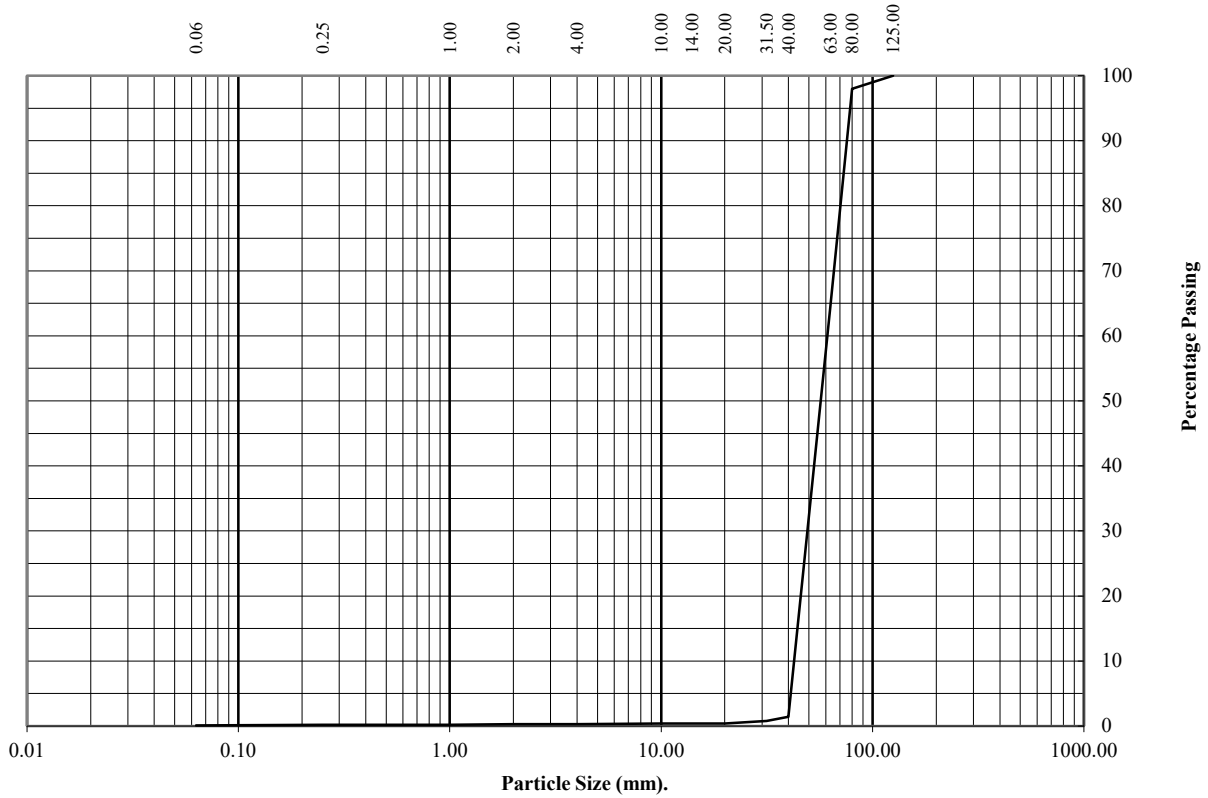
BS EN 933-1. 1997

By Washing and Sieving

Sample Number: **1**

Classification Type: **40/80mm**

**40/80mm**



BS Test Sieve mm	Percentage Passing %	40/80mm	
		Lower	Upper
125	100	98	100
80	98	80	99
63	64	20	70
40	1	0	20
31.5	1		
20	0	0	5
14	0		
10	0		
4	0		
2	0		
1	0		
0.25	0		
0.063	0		

**Remarks:**



Port Salford

Contract No:

PSL23/5089

Client Ref No:

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# PARTICLE SIZE DISTRIBUTION TEST

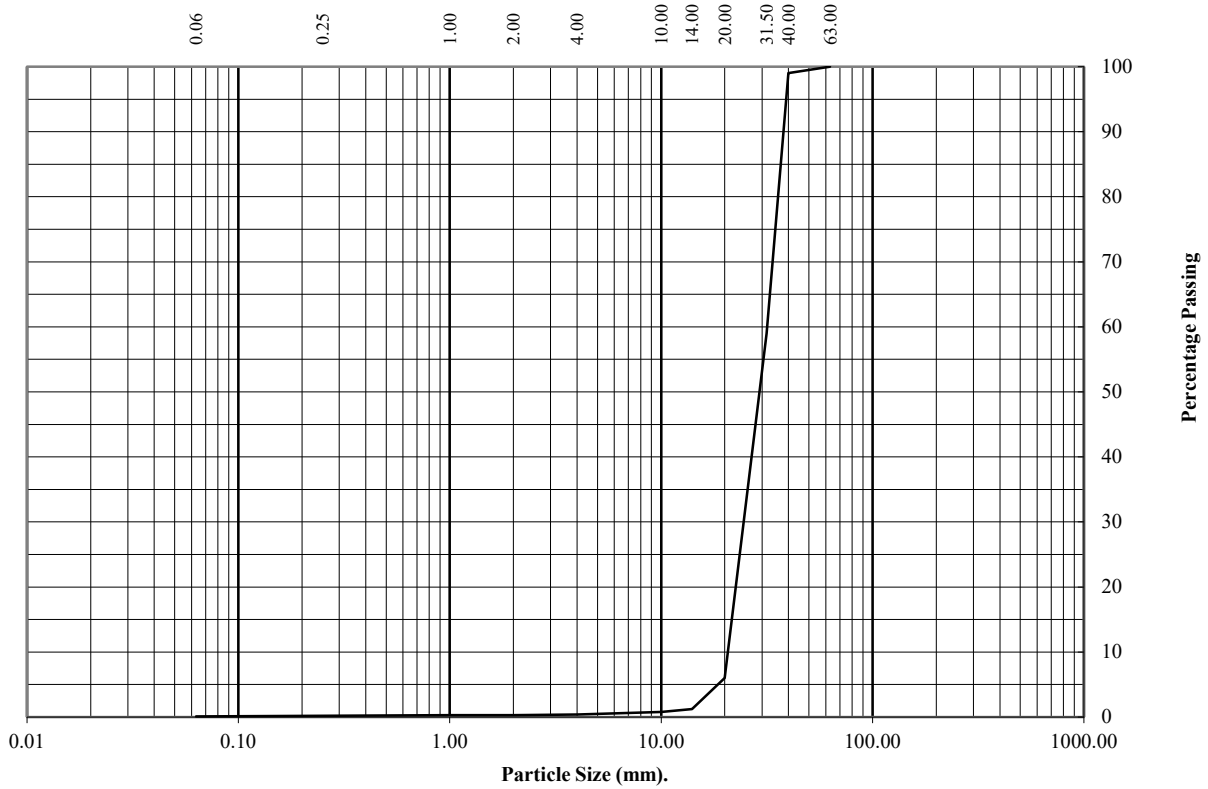
BS EN 933-1. 1997

By Washing and Sieving

Sample Number: 1

Classification Type: 20/40mm

20/40mm



BS Test Sieve mm	Percentage Passing %	20/40mm	
		Lower	Upper
63	100	98	100
40	99	80	99
31.5	59	20	70
20	6	0	20
14	1		
10	1	0	7
4	0		
2	0		
1	0		
0.25	0		
0.063	0		

Remarks:



Port Salford

Contract No:

PSL23/5089

Client Ref No:

28/06/2023

# PARTICLE SIZE DISTRIBUTION TEST

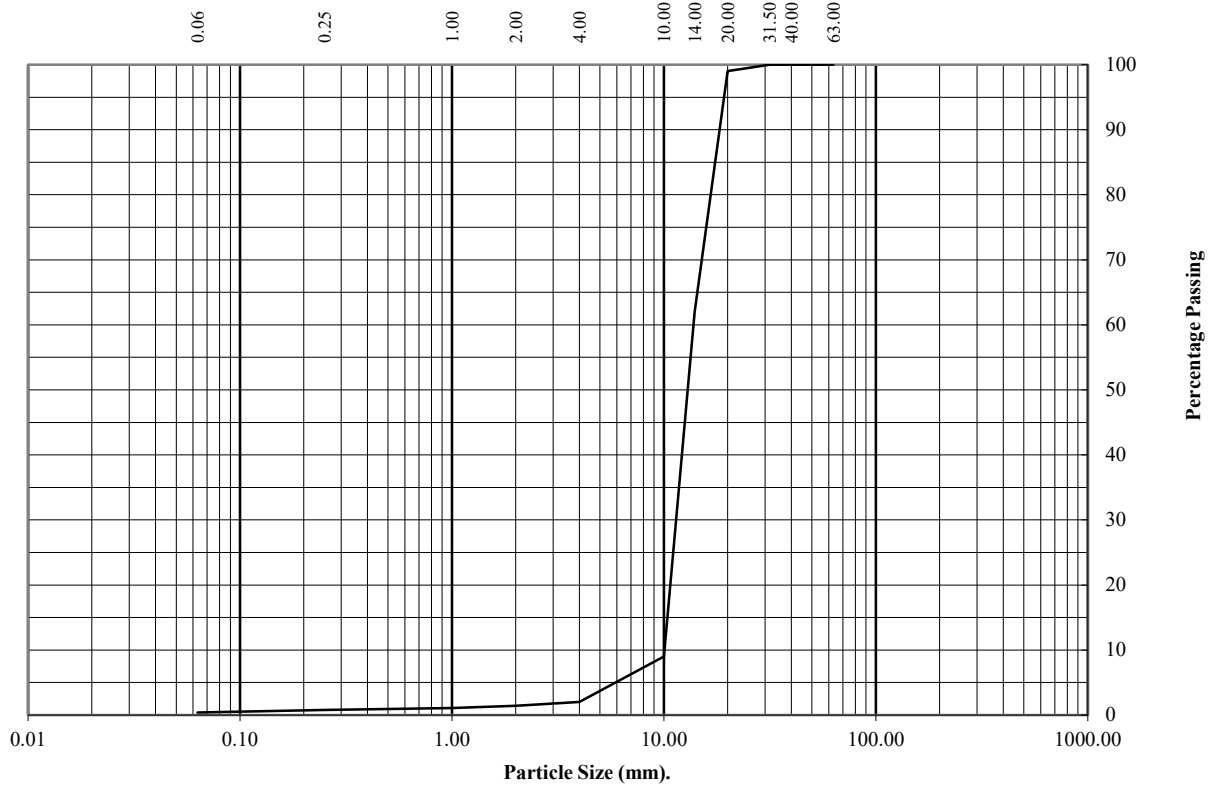
BS EN 933-1. 1997

By Washing and Sieving

Sample Number: 1

Classification Type: 10/20mm

10/20mm



BS Test Sieve mm	Percentage Passing %	10/20mm	
		Lower	Upper
63	100	100	100
40	100	100	100
31.5	100	98	100
20	99	80	99
14	62	20	70
10	9	0	20
4	2	0	5
2	1		
1	1		
0.25	1		
0.063	0		

Remarks:



Port Salford

Contract No:

PSL23/5089

Client Ref No:

28/06/2023

# PARTICLE SIZE DISTRIBUTION TEST

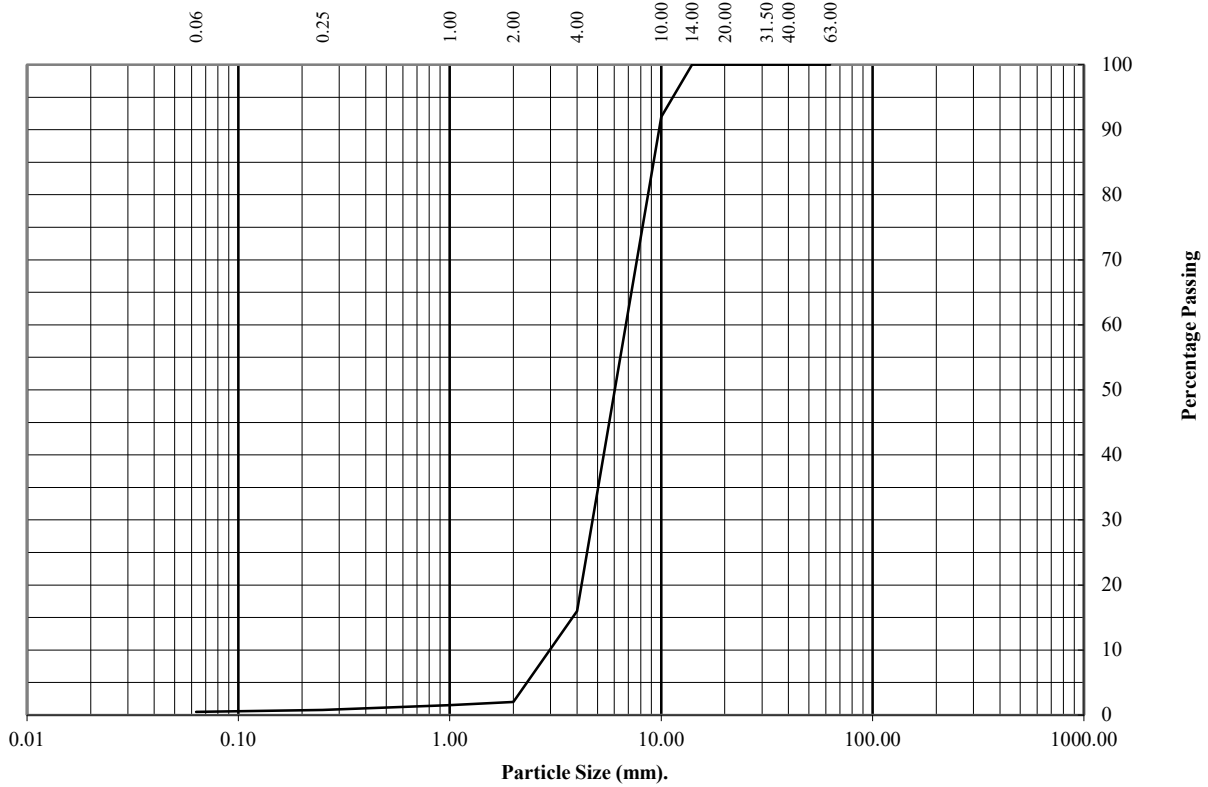
BS EN 933-1. 1997

By Washing and Sieving

Sample Number: 1

Classification Type: 4/10mm

4/10mm



BS Test Sieve mm	Percentage Passing %	4/10mm	
		Lower	Upper
63	100		
40	100		
31.5	100		
20	100	100	100
14	100	98	100
10	92	85	100
4	16	0	20
2	2	0	5
1	2		
0.25	1		
0.063	1	0	1.5

Remarks:



Port Salford

Contract No:

PSL23/5089

Client Ref No:

28/06/2023

# PARTICLE SIZE DISTRIBUTION TEST

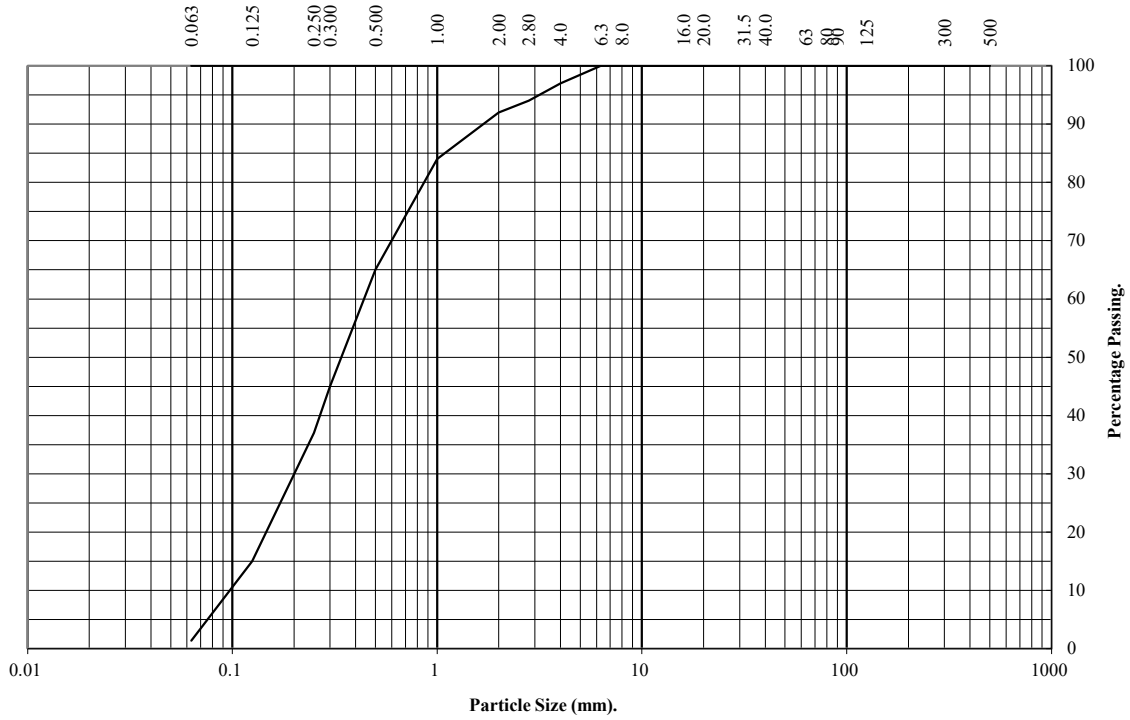
BS EN 933-1 Series

Wet Sieve:

Classification for Acceptable Earthworks

Sample Number: 1

Classification Type: 0/4mm



BS Test Sieve mm	Percentage Passing %	Lower Limit %	Upper Limit %
500	100		
300	100		
125	100		
90	100		
80	100		
63	100		
40	100		
31.5	100		
20	100		
16	100		
8	100	100	100
6.3	100	95	100
4	97	88	98
2.8	94		
2	92		
1	84	56	96
0.5	65	30	70
0.3	45		
0.25	37	0	40
0.125	15		
0.063	1	0	3

**Remarks:**



Port Salford

Contract No.:

PSL23/5089

Client Ref:

28/06/2023

# PARTICLE SIZE DISTRIBUTION TEST

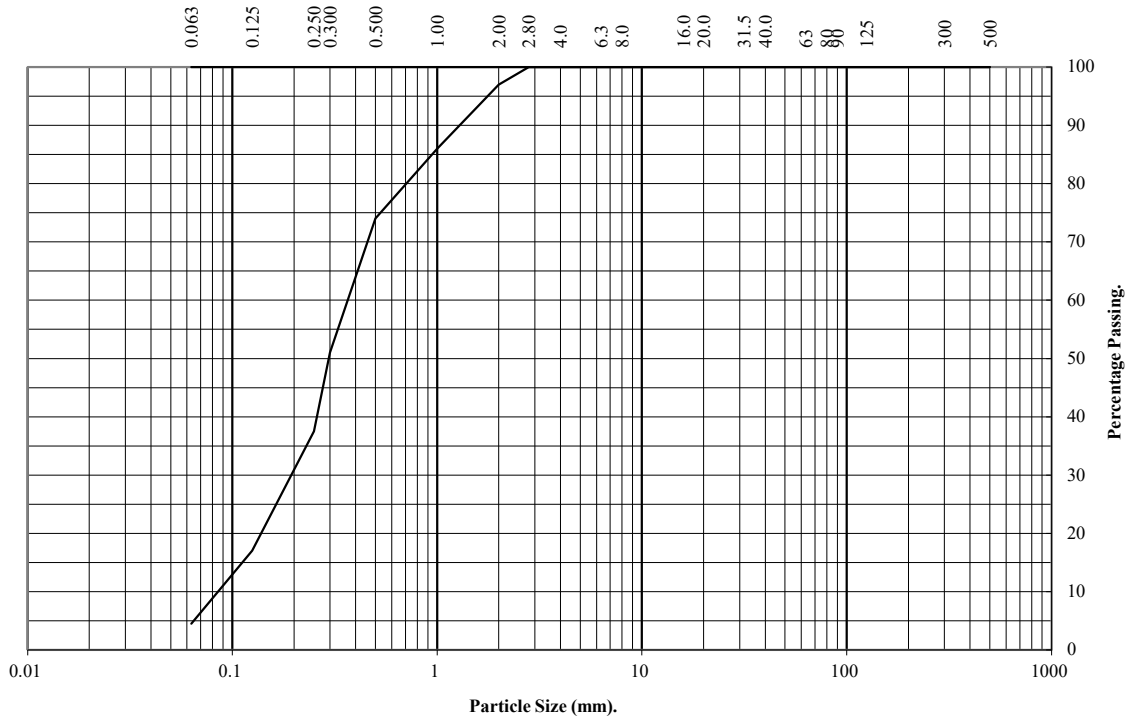
BS EN 933-1 Series

Wet Sieve:

Classification for Acceptable Earthworks

Sample Number: 1

Classification Type: 0/2mm



BS Test Sieve mm	Percentage Passing %	Lower Limit %	Upper Limit %
500	100		
300	100		
125	100		
90	100		
80	100		
63	100		
40	100		
31.5	100		
20	100		
16	100		
8	100		
6.3	100		
4	100	100	100
2.8	100	98	100
2	97	90	100
1	86	60	100
0.5	74	55	100
0.3	51		
0.25	38	40	90
0.125	17		
0.063	5	0	8

**Remarks:**



Port Salford

Contract No.:

PSL23/5089

Client Ref:

28/06/2023



# PARTICLE SIZE DISTRIBUTION TEST

BS EN ISO 17892-4:2016

Sieve Method, Clause 5.2

Hole Number:

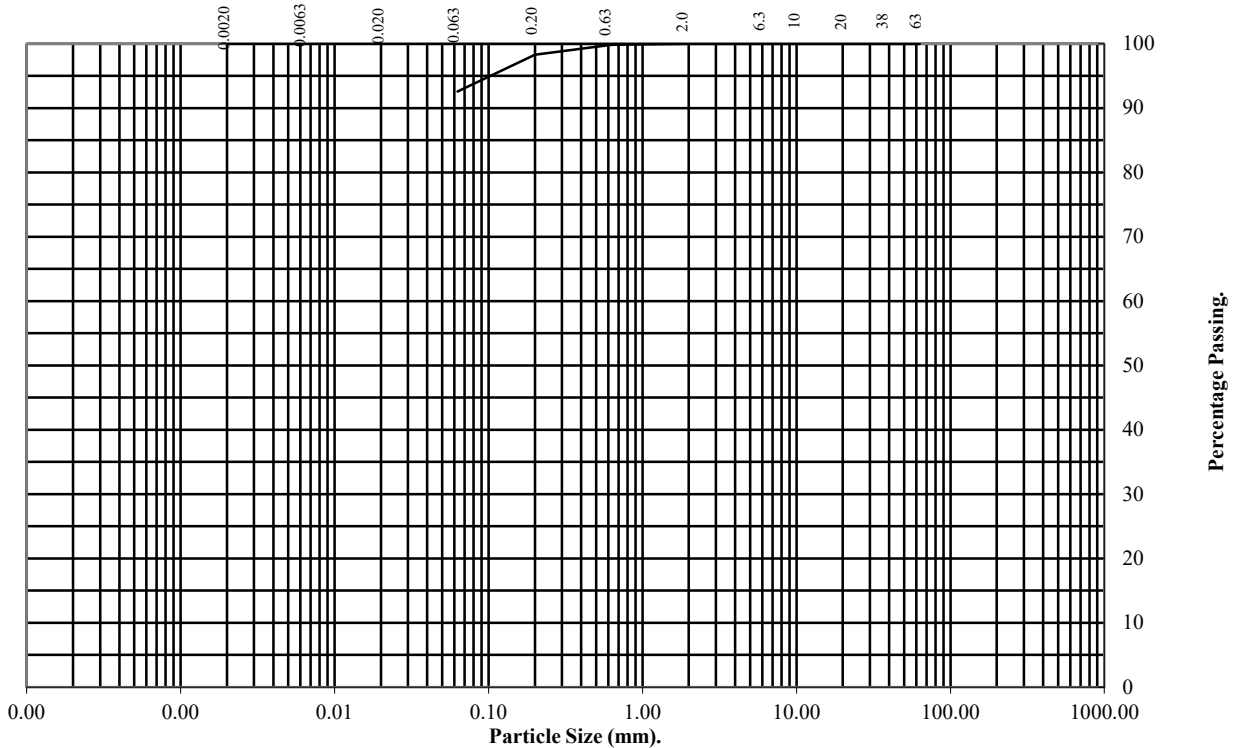
Clay

Top Depth (m):

Sample Number:

Base Depth(m):

Sample Type:



BS Test Sieve (mm)	Percentage Passing
63	100
37.5	100
20	100
10	100
6.3	100
2	100
0.63	100
0.2	98
0.063	93

Soil Fraction	Total Percentage
Cobbles	0
Gravel	0
Sand	7
Silt/Clay	93

**Remarks:**

See Summary of Soil Descriptions



Port Salford

<b>Contract No:</b>
<b>PSL23/5089</b>
<b>Client Ref:</b>
<b>28/06/2023</b>

# PARTICLE SIZE DISTRIBUTION TEST

BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number:

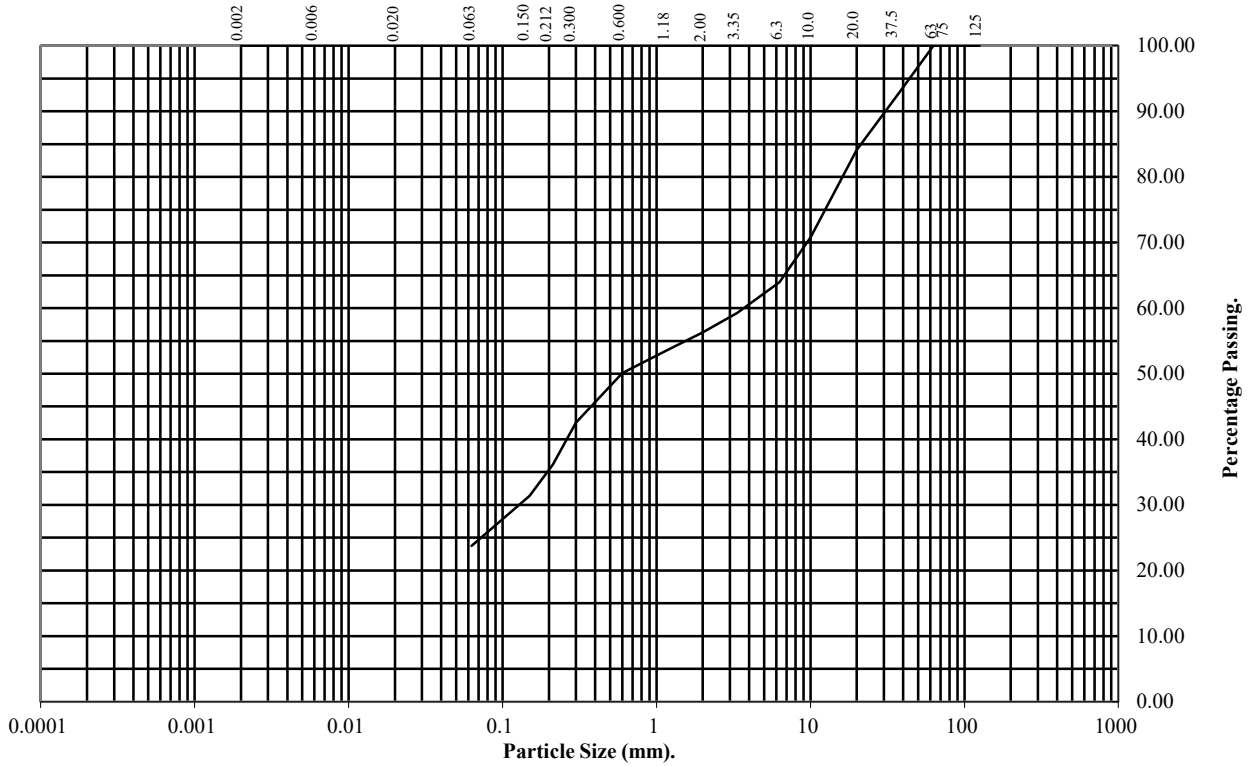
Feed

Top Depth (m):

Sample Number:

Base Depth(m):

Sample Type:



BS Test Sieve (mm)	Percentage Passing
125	100
75	100
63	100
37.5	93
20	84
10	71
6.3	64
3.35	59
2	56
1.18	54
0.6	50
0.3	43
0.212	36
0.15	31
0.063	24

Soil Fraction	Total Percentage
Cobbles	0
Gravel	44
Sand	32
Silt/Clay	24

**Remarks:**  
See Summary of Soil Descriptions



Port Salford

<b>Contract No:</b>
<b>PSL23/5089</b>
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<b>28/06/2023</b>