

Oedometer Settlement Tests

Sample details

Sketch showing specimen location in original Sample



Depth 57 - 59 ft.
Description: Gray Silty CLAY A-7-6 (54)

Type Undisturbed
Height H_0 (in) 0.999
Diameter D_0 (in) 2.501
Weight W_0 (gr) 135.46
Bulk Density ρ (PCF) 105.15
Particle Density ρ_s 2.671
(measured)

Initial Conditions

Settlement Channel 1001
Moisture Content w_0 % 54.0
Dry Density ρ_d (PCF) 68.27
Voids Ratio e_0 1.4415
Deg of Saturation S_0 % 100.0
Swelling Pressure S_s (TSF) 0.000

Final Conditions

Moisture Content w_f % 49.5
Dry Density ρ_d (PCF) 76.89
Voids Ratio e_f 1.1675
Deg of Saturation S_f % 100.00
Settlement: (in) 0.112
Compression Index C_c 0.653

Notes: Test specimen taken from the middle portion of UD tube.



ASTM D2435-96

Test name Consolidation

Date of Test: 6-15-11

Site Reference: Oregon Inlet B-2500

Sample: ST-1

Jobfile: F:\51-11015.JOB

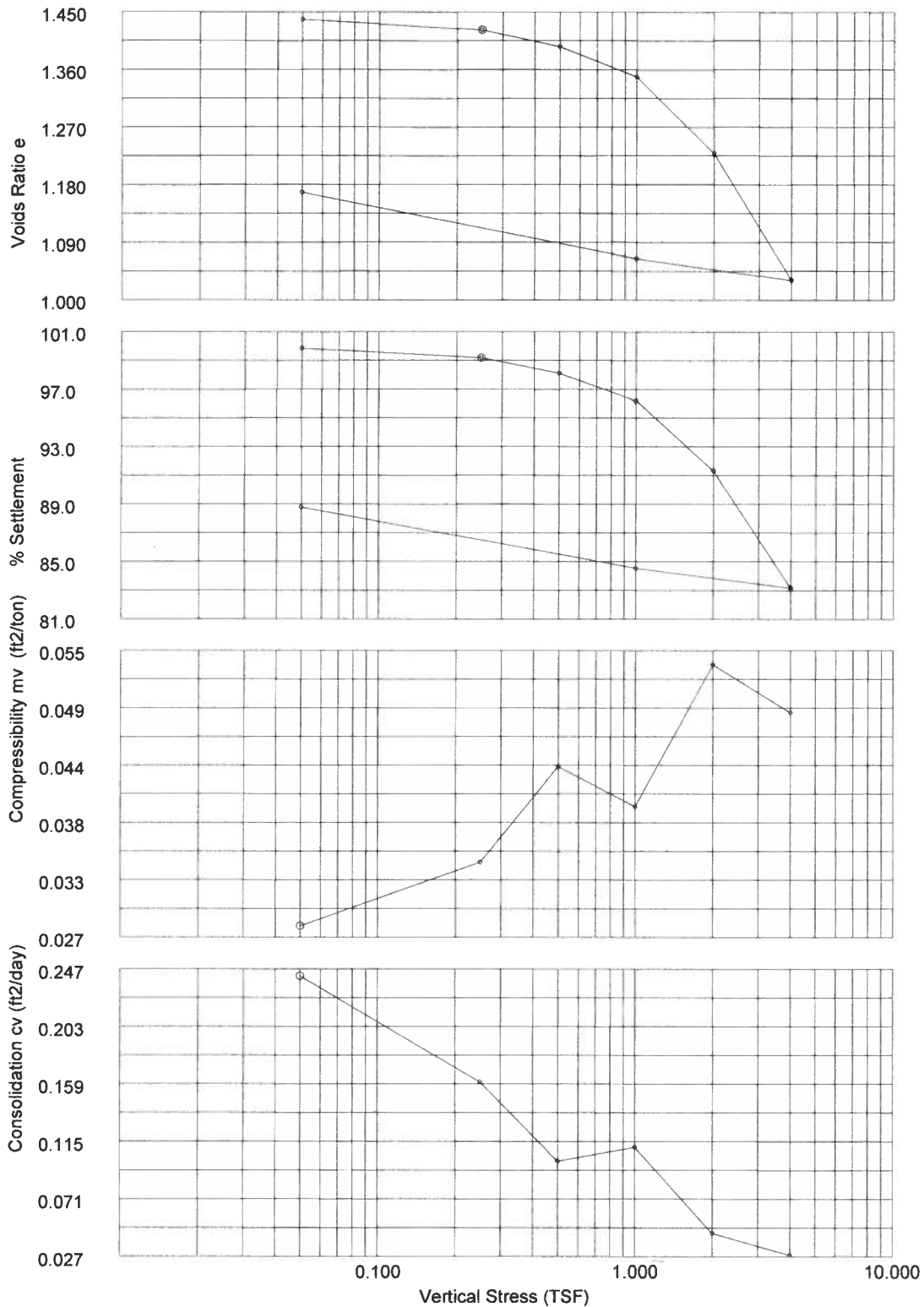
Borehole: B-67

Operator: *MH*

Checked: *MH*

Approved: *CH*

Oedometer Settlement Tests



ASTM D2435-96

Test name

Consolidation

Date of Test:

6-15-11

Site Reference:

Oregon Inlet

Sample:

ST-1

Jobfile:

F:\51-11015.JOB

Borehole:

B-67

Operator:

My

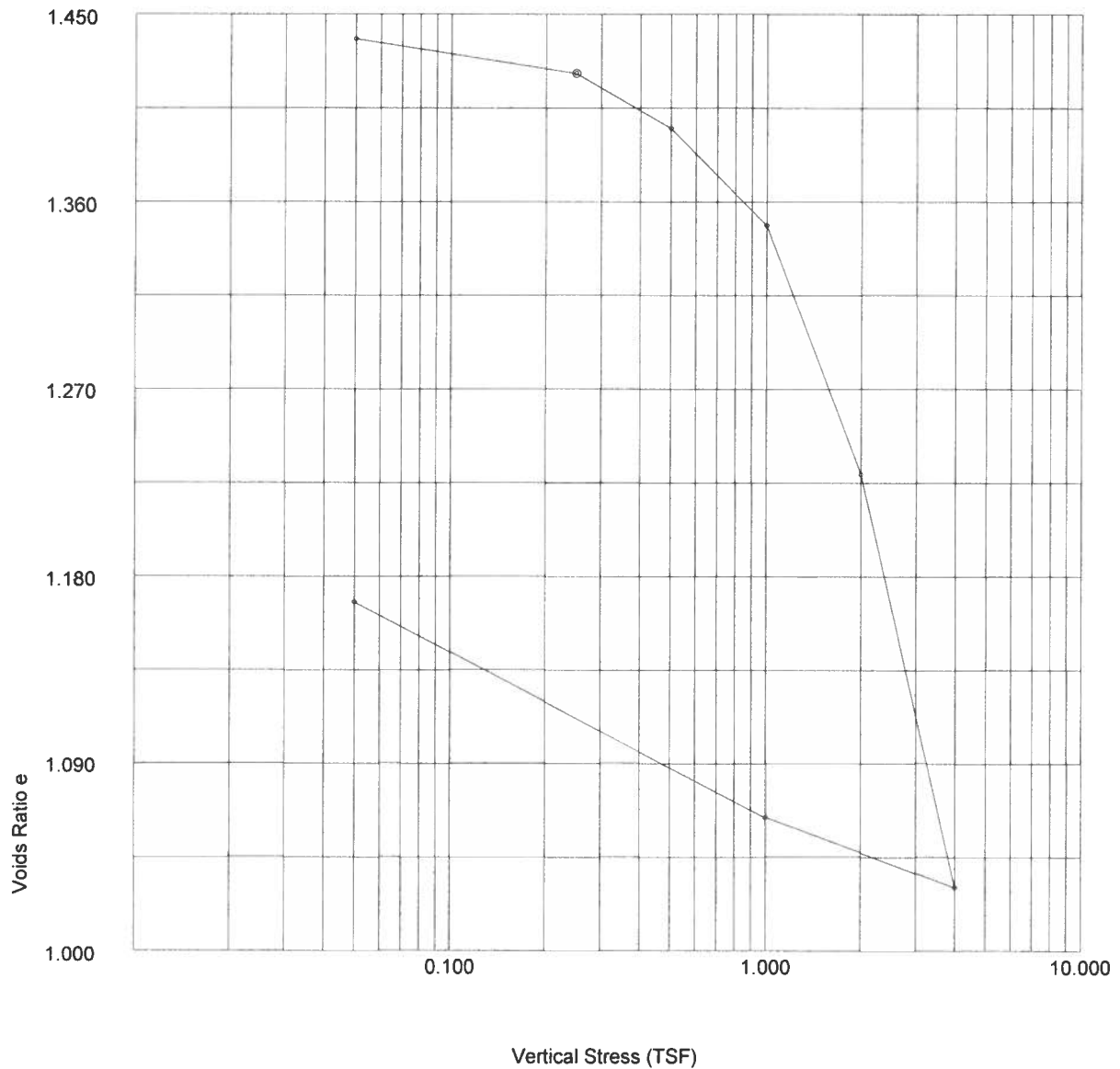
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md

Approved:

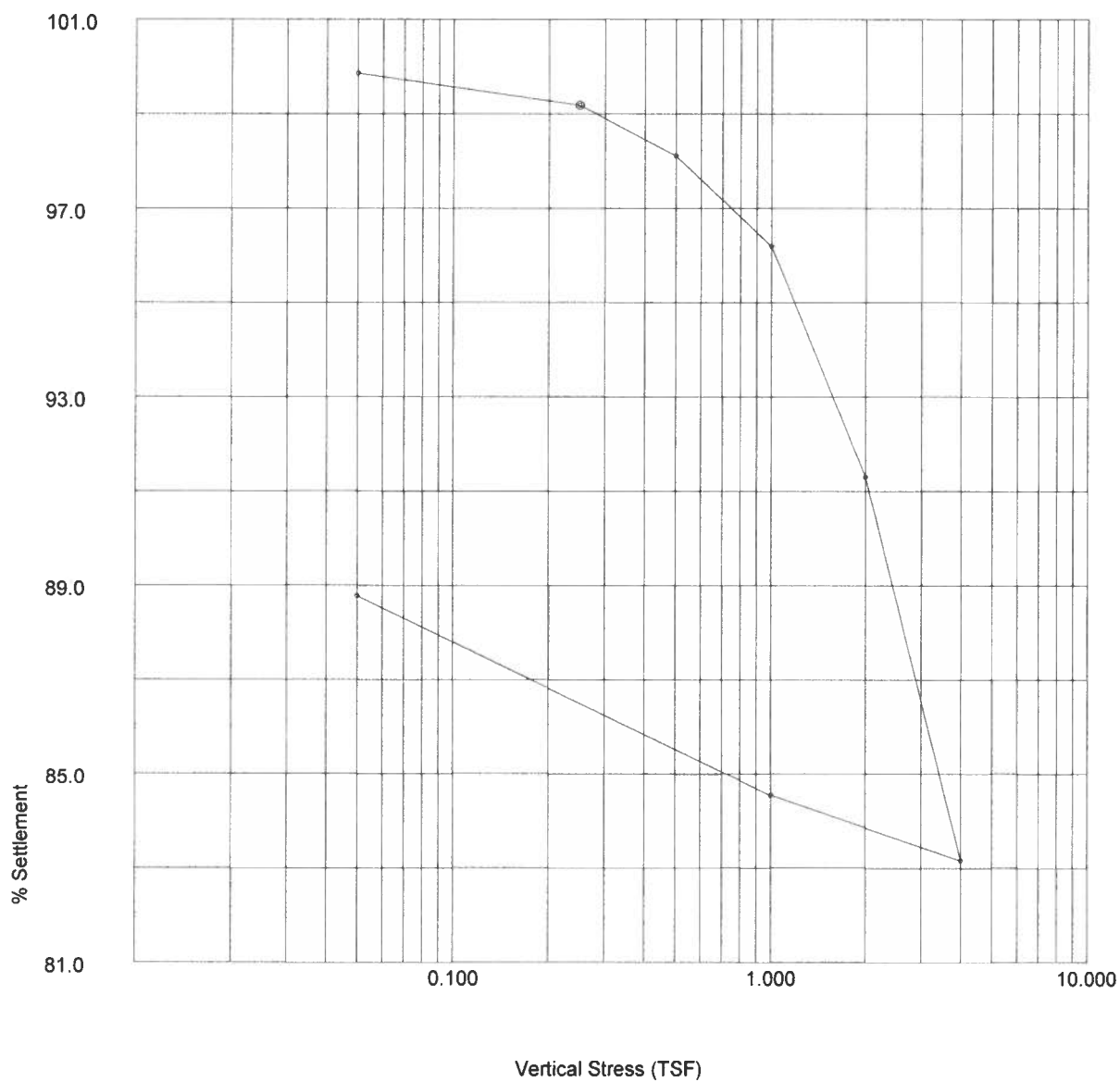
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Oedometer Settlement Tests



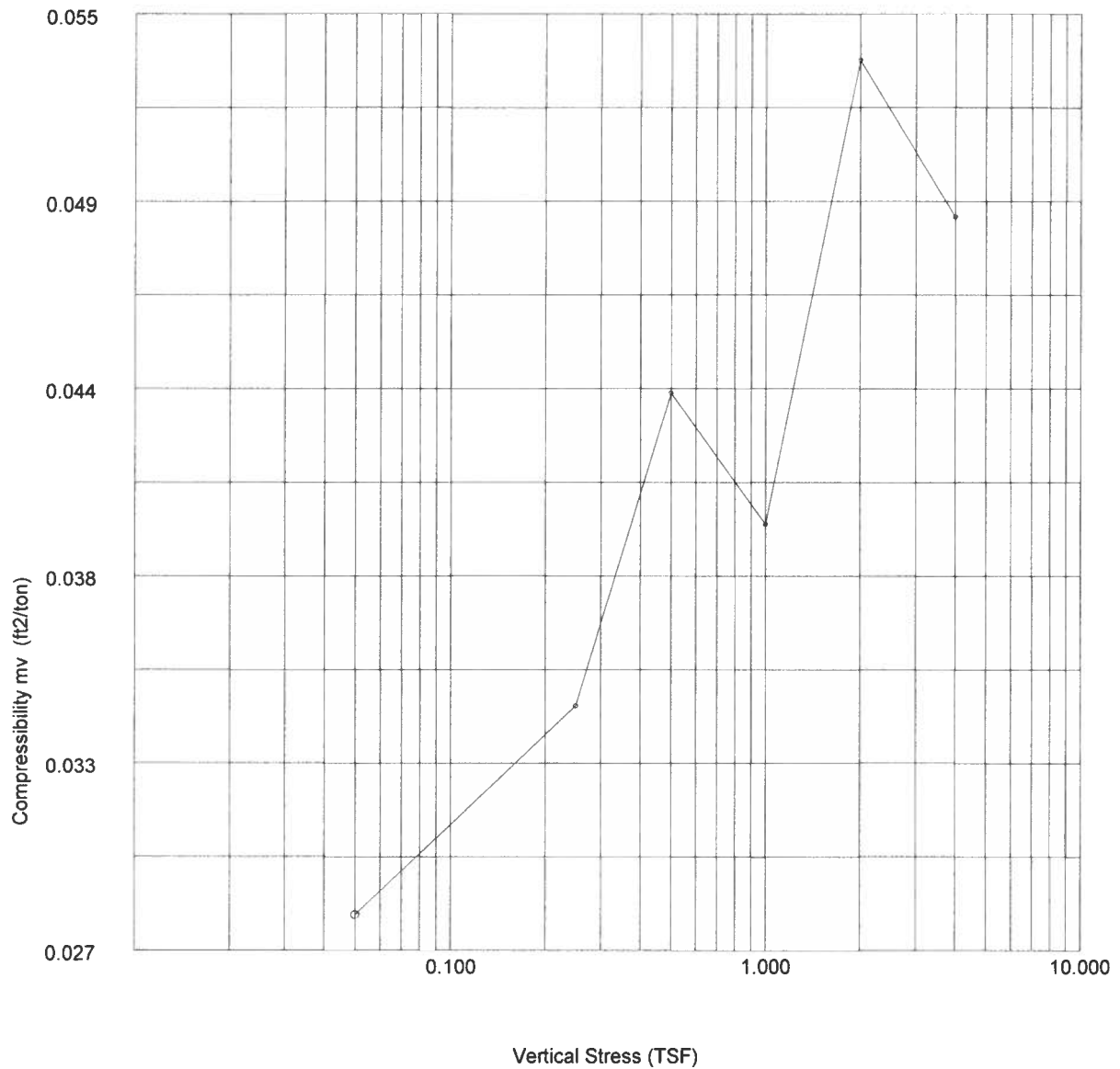
	ASTM D2435-96		Test name	Consolidation
			Date of Test:	6-15-11
	Site Reference:	Oregon Inlet	Sample:	ST-1
	Jobfile:	F:\51-11015.JOB	Borehole:	B-67
Operator:		Checked:	Approved:	
				

Oedometer Settlement Tests



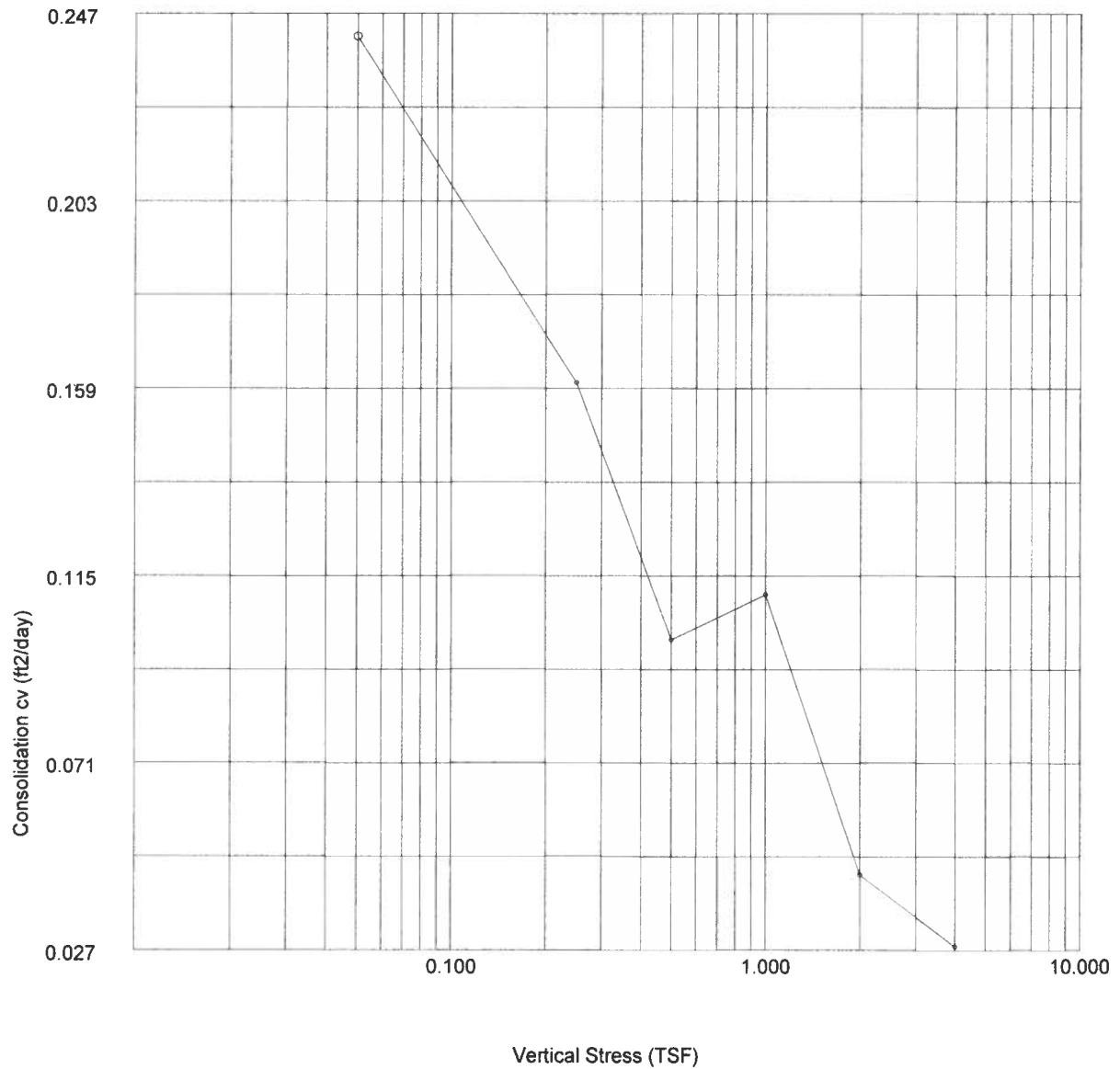
	ASTM D2435-96		Test name	Consolidation
			Date of Test:	6-15-11
	Site Reference:	Oregon Inlet	Sample:	ST-1
	Jobfile:	F:\51-11015.JOB	Borehole:	B-67
Operator: 		Checked: 		Approved: 

Oedometer Settlement Tests



	ASTM D2435-96		Test name	Consolidation
			Date of Test:	6-15-11
	Site Reference:	Oregon Inlet	Sample:	ST-1
	Jobfile:	F:\51-11015.JOB	Borehole:	B-67
Operator:		Checked:	Approved:	
				

Oedometer Settlement Tests



ASTM D2435-96

Test name Consolidation

Date of Test: 6-15-11

Site Reference: Oregon Inlet
Jobfile: F:\51-11015.JOB

Sample: ST-1
Borehole: B-67

Operator:

M

Checked:

M

Approved:

DM

Oedometer Settlement Tests

Stress (TSF)	Initial Temp. oC	Settlement Total (in)	Cal Corr. (in)	Final Temp. oC	Voids Ratio e_f	t_{50} (mins)	Secondary Compr C_{sec}	c_v (ft ² /day)	m_v (ft ² /ton)
0.050	20.0	0.0014	0.0	20.0	1.4381	2.062	0.00	0.242	0.028
0.250	20.0	0.0082	0.0	20.0	1.4214	3.081	0.0007	0.160	0.034
0.500	20.0	0.0189	0.0	20.0	1.3953	4.859	0.0046	0.100	0.044
1.000	20.0	0.0380	0.0	20.0	1.3486	4.261	0.0046	0.111	0.040
2.000	20.0	0.0869	0.0	20.0	1.2291	9.809	0.0121	0.045	0.054
4.000	20.0	0.1682	0.0	20.0	1.0304	13.566	0.0127	0.028	0.049
1.000	20.0	0.1544	0.0	20.0	1.0641				0.005
0.050	20.0	0.1121	0.0	20.0	1.1675				0.050



ASTM D2435-96

Test name Consolidation

Date of Test: 6-15-11

Site Reference: Oregon Inlet
Jobfile: F:\51-11015.JOB

Sample: ST-1
Borehole: B-67

Operator:

MJ

Checked:

MJ

Approved:

AJH

Oedometer Settlement Tests

No.	Time (mins)	Displacement (divs)	Displacement (in)	Settlement (in)
1	0.000	0	0.0000	0.0000
2	0.017	2	0.0002	0.0002
3	0.033	3	0.0003	0.0003
4	0.050	3	0.0003	0.0003
5	0.067	3	0.0003	0.0003
6	0.083	4	0.0004	0.0004
7	0.100	4	0.0004	0.0004
8	0.200	4	0.0004	0.0004
9	0.400	5	0.0005	0.0005
10	0.800	6	0.0006	0.0006
11	1.000	7	0.0007	0.0007
12	2.000	8	0.0008	0.0008
13	4.000	10	0.0010	0.0010
14	8.000	12	0.0012	0.0012
15	10.000	12	0.0012	0.0012
16	20.000	13	0.0013	0.0013
17	40.000	14	0.0014	0.0014
18	80.000	14	0.0014	0.0014
19	100.000	14	0.0014	0.0014
20	200.000	14	0.0014	0.0014
21	202.717	14	0.0014	0.0014



ASTM D2435-96

Test name Consolidation Load: 0.050 (TSF)

Date of Test: 6-15-11

Site Reference: Oregon Inlet
Jobfile: F:\51-11015.JOB

Sample: ST-1
Borehole: B-67

Operator:

Checked:

Approved:

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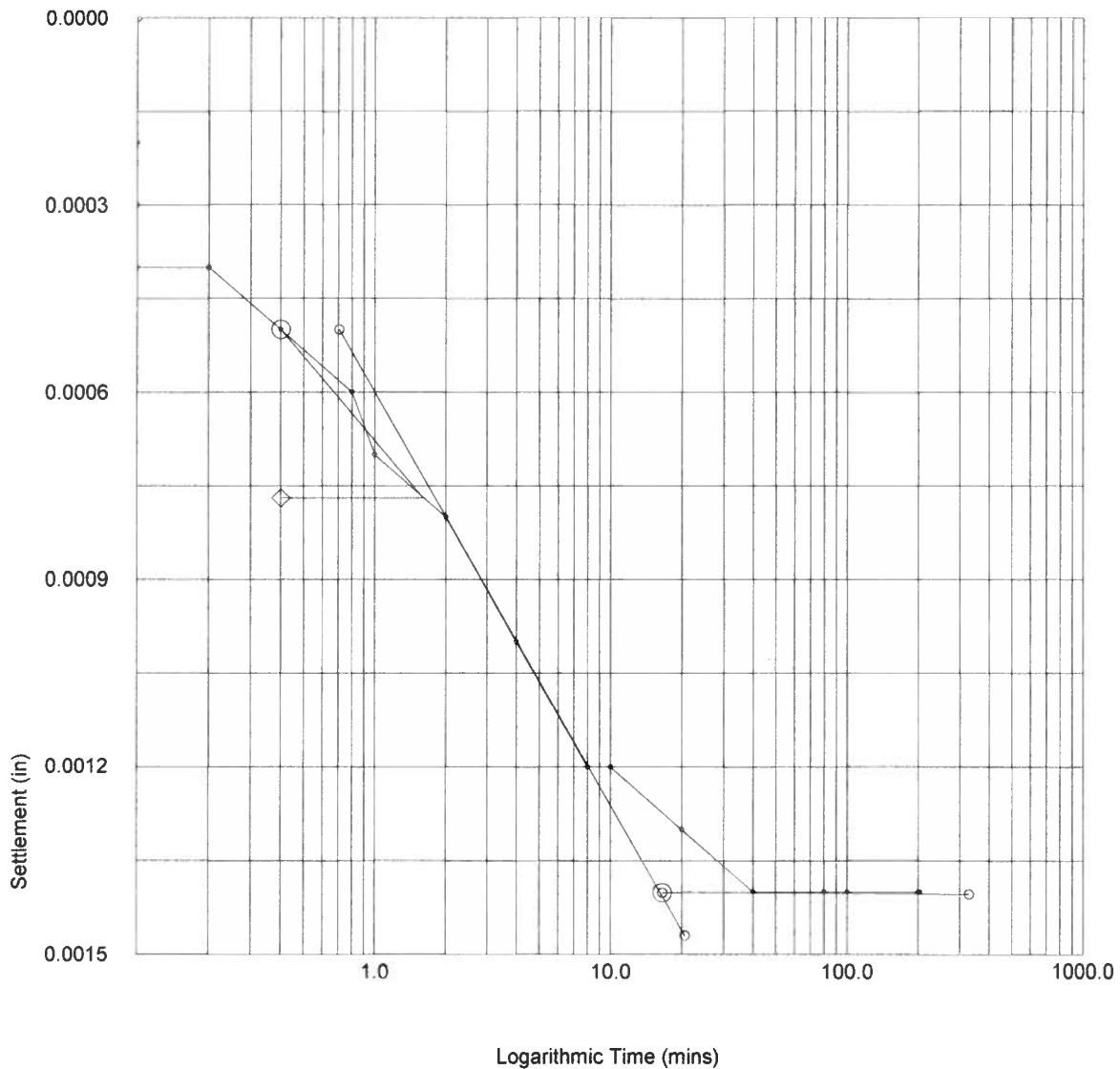
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Oedometer Settlement Tests

Settlement Stage Results

Vertical Stress (TSF)	0.050
Initial Temp oC	20.0
Correction (in)	0.0
Settlement (in)	0.0014
Voids Ratio e	1.4381
Final Temp oC	0.0
t_{50} (mins)	2.06
c_v (ft ² /day)	0.242
m_v (ft ² /ton)	0.028
Sec Compression C_{sec}	0.00



ASTM D2435-96

Test name Consolidation

Date of Test: 6-15-11

Site Reference: Oregon Inlet
Jobfile: F:\51-11015.JOB

Sample: ST-1
Borehole: B-67

Operator:

[Signature]

Checked:

[Signature]

Approved:

[Signature]

Oedometer Settlement Tests

No.	Time (mins)	Displacement (divs)	Displacement (in)	Settlement (in)
1	0.000	14	0.0014	0.0014
2	0.017	15	0.0015	0.0015
3	0.033	20	0.0020	0.0020
4	0.050	22	0.0022	0.0022
5	0.067	23	0.0023	0.0023
6	0.083	23	0.0023	0.0023
7	0.100	24	0.0024	0.0024
8	0.200	27	0.0027	0.0027
9	0.400	30	0.0030	0.0030
10	0.800	35	0.0035	0.0035
11	1.000	36	0.0036	0.0036
12	2.000	42	0.0042	0.0042
13	4.000	50	0.0050	0.0050
14	8.000	58	0.0058	0.0058
15	10.000	61	0.0061	0.0061
16	20.000	69	0.0069	0.0069
17	40.000	73	0.0073	0.0073
18	80.000	78	0.0078	0.0078
19	100.000	78	0.0078	0.0078
20	200.267	80	0.0080	0.0080
21	378.283	82	0.0082	0.0082



ASTM D2435-96

Test name Consolidation Load: 0.250 (TSF)

Date of Test: 6-15-11

Site Reference: Oregon Inlet
Jobfile: F:\51-11015.JOB

Sample: ST-1
Borehole: B-67

Operator:

Checked:

Approved:

[Signature]

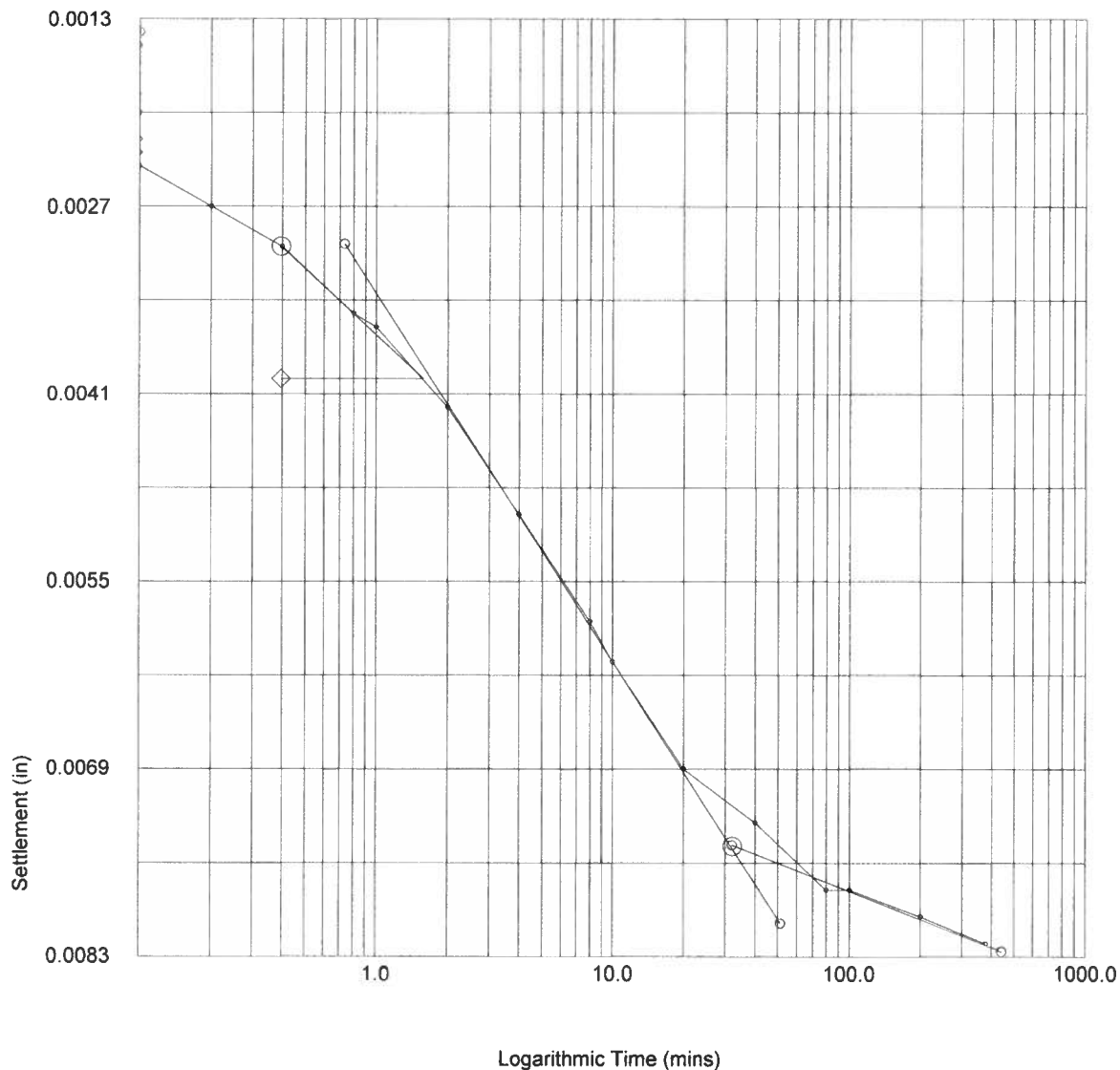
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Oedometer Settlement Tests

Settlement Stage Results

Vertical Stress (TSF)	0.250
Initial Temp oC	20.0
Correction (in)	0.0
Settlement (in)	0.0068
Voids Ratio e	1.4214
Final Temp oC	0.0
t_{50} (mins)	3.08
c_v (ft ² /day)	0.16
m_v (ft ² /ton)	0.034
Sec Compression C_{sec}	0.0007



ASTM D2435-96

Test name Consolidation

Date of Test: 6-15-11

Site Reference: Oregon Inlet
Jobfile: F:\51-11015.JOB

Sample: ST-1
Borehole: B-67

Operator:

Checked:

Approved:

MW

Mc

AK

Oedometer Settlement Tests

No.	Time (mins)	Displacement (divs)	Displacement (in)	Settlement (in)
1	0.000	82	0.0082	0.0082
2	0.017	84	0.0084	0.0084
3	0.033	88	0.0088	0.0088
4	0.050	90	0.0090	0.0090
5	0.067	91	0.0091	0.0091
6	0.083	92	0.0092	0.0092
7	0.100	92	0.0092	0.0092
8	0.200	95	0.0095	0.0095
9	0.400	100	0.0100	0.0100
10	0.800	104	0.0104	0.0104
11	1.000	106	0.0106	0.0106
12	2.000	114	0.0114	0.0114
13	4.000	124	0.0124	0.0124
14	8.000	137	0.0137	0.0137
15	10.000	142	0.0142	0.0142
16	20.000	155	0.0155	0.0155
17	40.000	165	0.0165	0.0165
18	80.000	171	0.0171	0.0171
19	100.000	173	0.0173	0.0173
20	200.000	179	0.0179	0.0179
21	400.000	184	0.0184	0.0184
22	770.133	189	0.0189	0.0189



ASTM D2435-96

Test name Consolidation Load: 0.500 (TSF)

Date of Test: 6-15-11

Site Reference: Oregon Inlet
Jobfile: F:\51-11015.JOB

Sample: ST-1
Borehole: B-67

Operator:

Checked:

Approved:

[Signature]

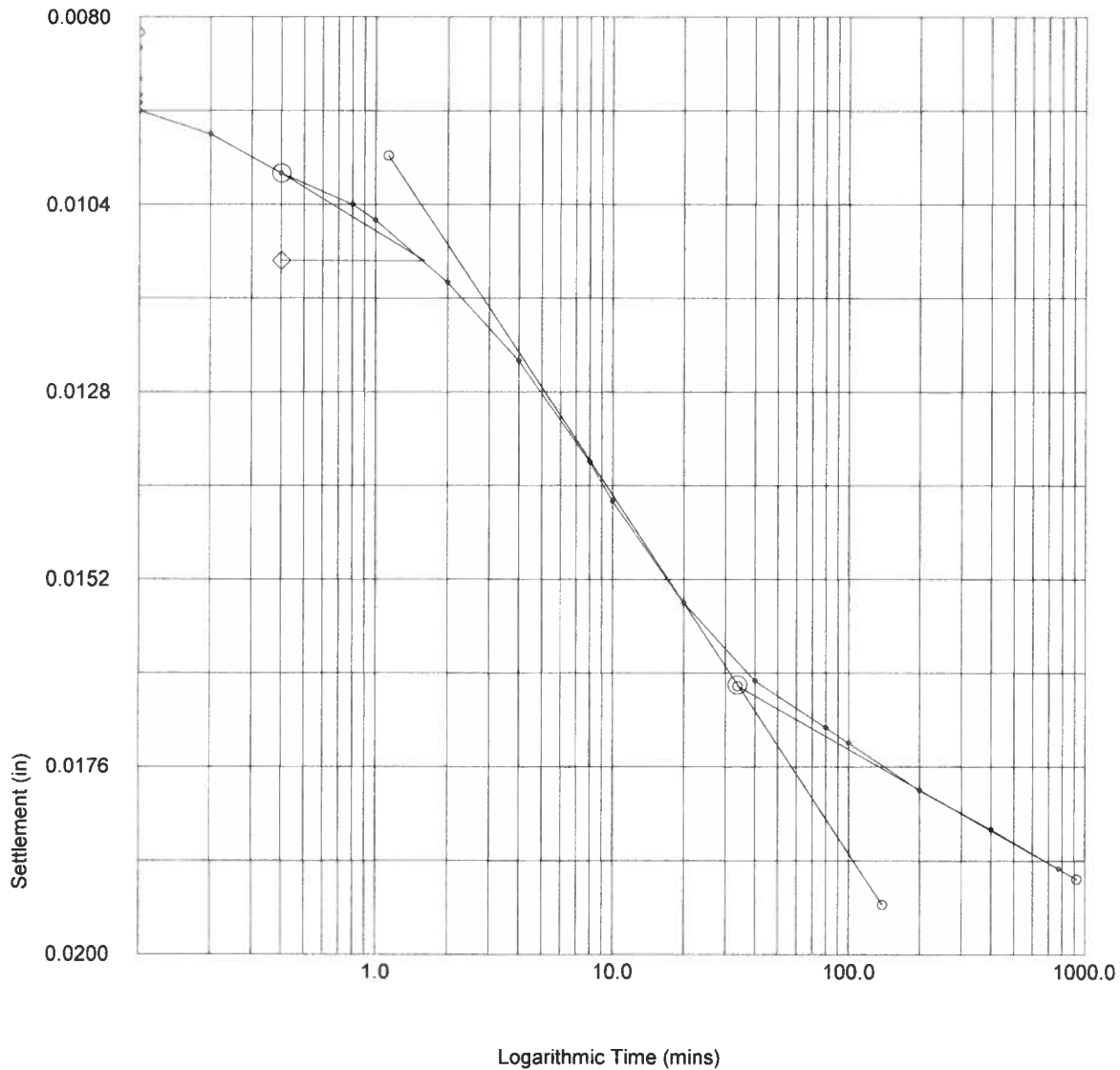
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Oedometer Settlement Tests

Settlement Stage Results

Vertical Stress (TSF)	0.500
Initial Temp oC	20.0
Correction (in)	0.0
Settlement (in)	0.0107
Voids Ratio e	1.3953
Final Temp oC	0.0
t ₅₀ (mins)	4.86
c _v (ft ² /day)	0.1
m _v (ft ² /ton)	0.044
Sec Compression C _{sec}	0.0046



ASTM D2435-96

Test name Consolidation

Date of Test: 6-15-11

Site Reference: Oregon Inlet
Jobfile: F:\51-11015.JOB

Sample: ST-1
Borehole: B-67

Operator: *[Signature]*

Checked: *[Signature]*

Approved: *[Signature]*

Oedometer Settlement Tests

No.	Time (mins)	Displacement (divs)	Displacement (in)	Settlement (in)
1	0.000	189	0.0189	0.0189
2	0.017	191	0.0191	0.0191
3	0.033	191	0.0191	0.0191
4	0.050	196	0.0196	0.0196
5	0.067	202	0.0202	0.0202
6	0.083	203	0.0203	0.0203
7	0.100	205	0.0205	0.0205
8	0.200	211	0.0211	0.0211
9	0.400	217	0.0217	0.0217
10	0.800	228	0.0228	0.0228
11	1.000	231	0.0231	0.0231
12	2.000	247	0.0247	0.0247
13	4.000	266	0.0266	0.0266
14	8.000	291	0.0291	0.0291
15	10.000	300	0.0300	0.0300
16	20.000	325	0.0325	0.0325
17	40.000	345	0.0345	0.0345
18	80.000	361	0.0361	0.0361
19	100.000	366	0.0366	0.0366
20	200.000	379	0.0379	0.0379
21	204.850	380	0.0380	0.0380



ASTM D2435-96

Test name Consolidation Load: 1.000 (TSF)
Date of Test: 6-15-11

Site Reference: Oregon Inlet
Jobfile: F:\51-11015.JOB

Sample: ST-1
Borehole: B-67

Operator:

MW

Checked:

MW

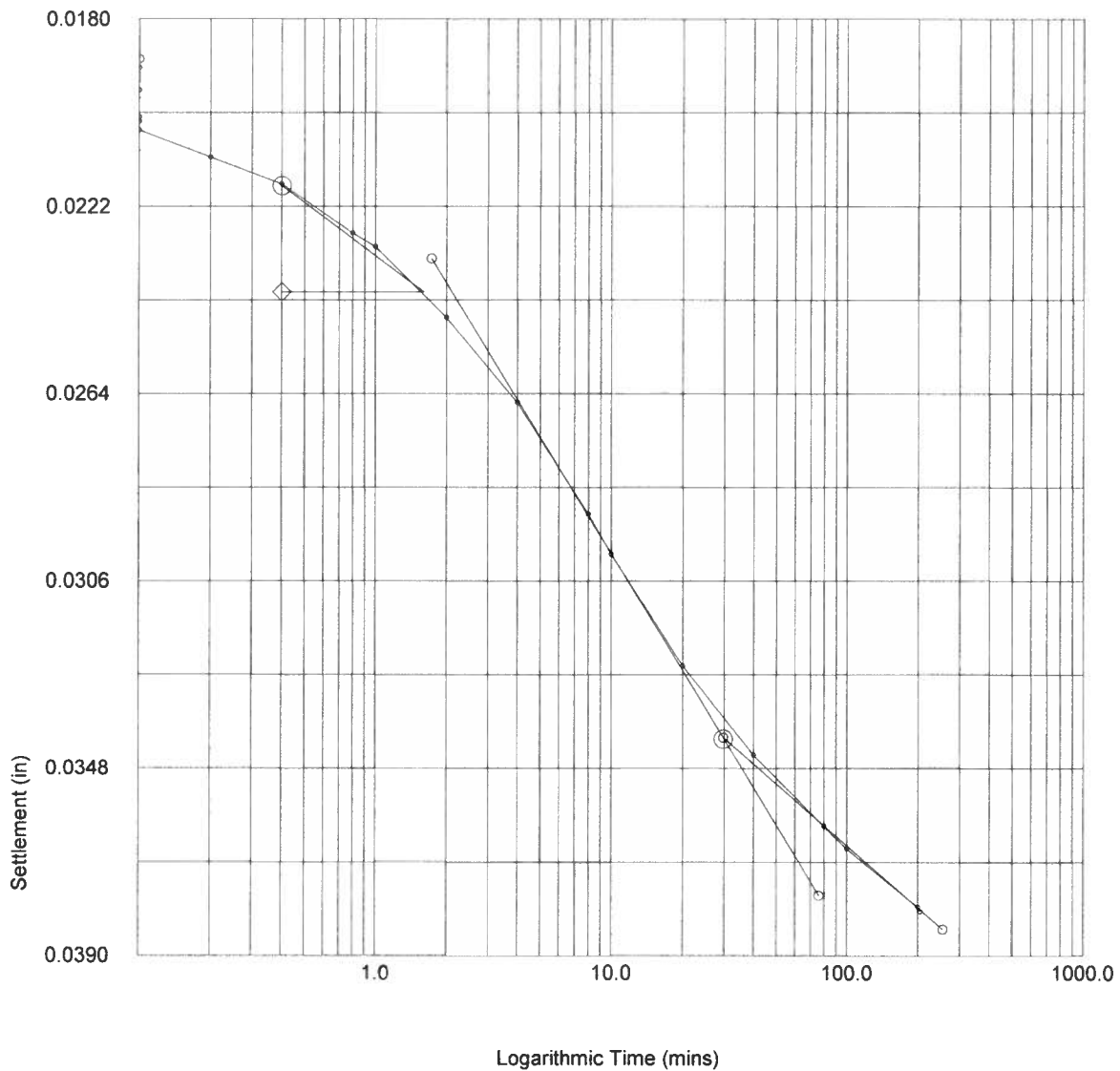
Approved:

AJH

Oedometer Settlement Tests

Settlement Stage Results

Vertical Stress (TSF)	1.000
Initial Temp oC	20.0
Correction (in)	0.0
Settlement (in)	0.0191
Voids Ratio e	1.3486
Final Temp oC	0.0
t ₅₀ (mins)	4.26
c _v (ft ² /day)	0.111
m _v (ft ² /ton)	0.04
Sec Compression C _{sec}	0.0046



ASTM D2435-96

Test name Consolidation

Date of Test: 6-15-11

Site Reference: Oregon Inlet
Jobfile: F:\51-11015.JOB

Sample: ST-1
Borehole: B-67

Operator: *[Signature]*

Checked: *[Signature]*

Approved: *[Signature]*

Oedometer Settlement Tests

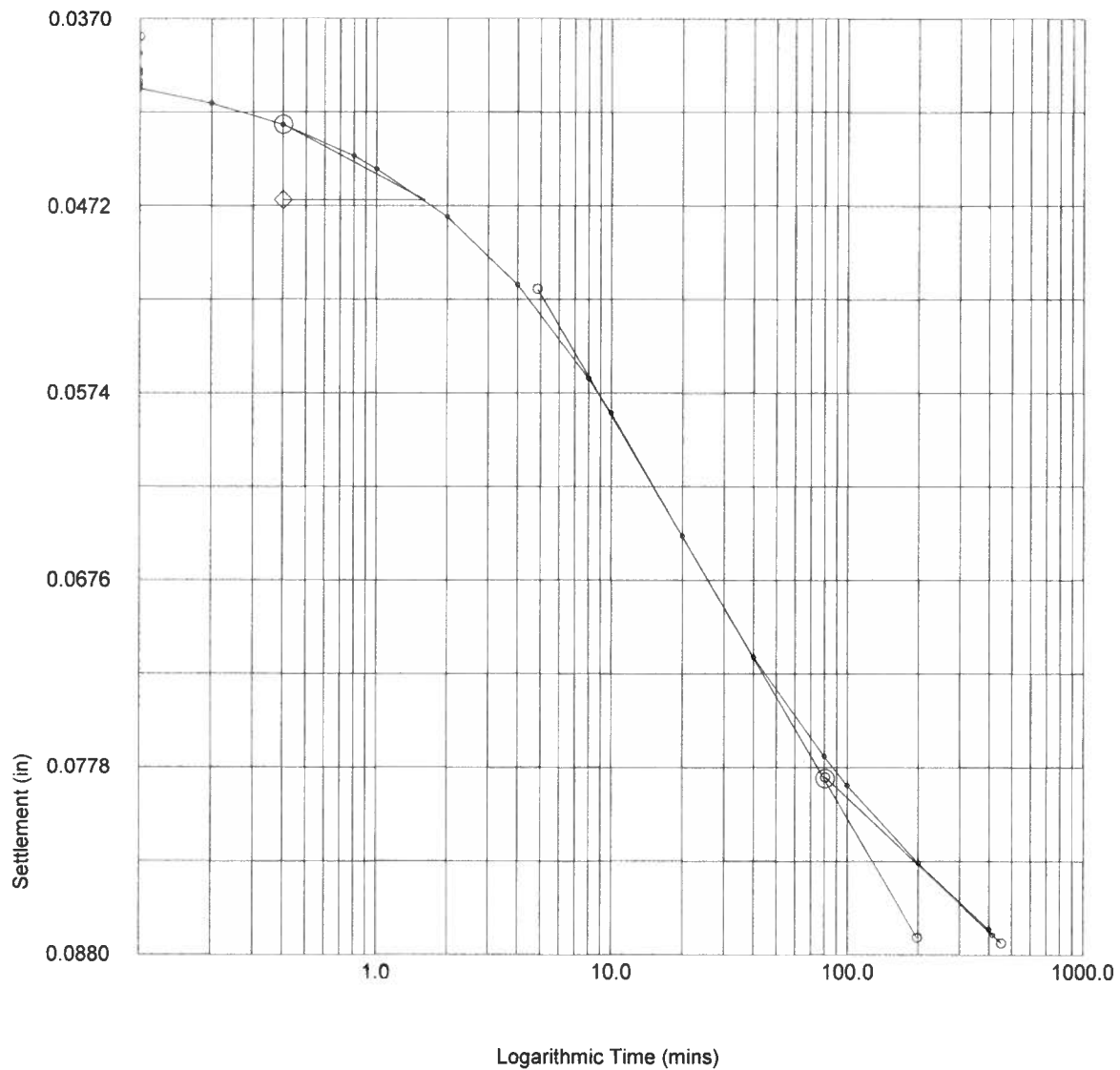
No.	Time (mins)	Displacement (divs)	Displacement (in)	Settlement (in)
1	0.000	380	0.0380	0.0380
2	0.017	389	0.0389	0.0389
3	0.033	398	0.0398	0.0398
4	0.050	400	0.0400	0.0400
5	0.067	404	0.0404	0.0404
6	0.083	406	0.0406	0.0406
7	0.100	408	0.0408	0.0408
8	0.200	416	0.0416	0.0416
9	0.400	428	0.0428	0.0428
10	0.800	445	0.0445	0.0445
11	1.000	452	0.0452	0.0452
12	2.000	478	0.0478	0.0478
13	4.000	515	0.0515	0.0515
14	8.000	566	0.0566	0.0566
15	10.000	585	0.0585	0.0585
16	20.000	652	0.0652	0.0652
17	40.000	718	0.0718	0.0718
18	80.000	772	0.0772	0.0772
19	100.000	788	0.0788	0.0788
20	200.150	830	0.0830	0.0830
21	400.150	866	0.0866	0.0866
22	415.383	869	0.0869	0.0869

	ASTM D2435-96		Test name	Consolidation Load: 2.000 (TSF)	
			Date of Test:	6-15-11	
	Site Reference: Oregon Inlet		Sample:	ST-1	
	Jobfile: F:\51-11015.JOB		Borehole:	B-67	
Operator: 		Checked: 		Approved: 	

Oedometer Settlement Tests

Settlement Stage Results

Vertical Stress (TSF)	2.000
Initial Temp oC	20.0
Correction (in)	0.0
Settlement (in)	0.0489
Voids Ratio e	1.2291
Final Temp oC	0.0
t_{50} (mins)	9.81
c_v (ft ² /day)	0.045
m_v (ft ² /ton)	0.054
Sec Compression C_{sec}	0.0121



ASTM D2435-96

Test name Consolidation

Date of Test: 6-15-11

Site Reference: Oregon Inlet
Jobfile: F:\51-11015.JOB

Sample: ST-1
Borehole: B-67

Operator:

Checked:

Approved:

[Signature]

[Signature]

[Signature]

Oedometer Settlement Tests

No.	Time (mins)	Displacement (divs)	Displacement (in)	Settlement (in)
1	0.000	870	0.0870	0.0870
2	0.017	879	0.0879	0.0879
3	0.033	892	0.0892	0.0892
4	0.050	894	0.0894	0.0894
5	0.067	897	0.0897	0.0897
6	0.083	901	0.0901	0.0901
7	0.100	902	0.0902	0.0902
8	0.200	913	0.0913	0.0913
9	0.400	928	0.0928	0.0928
10	0.800	951	0.0951	0.0951
11	1.000	960	0.0960	0.0960
12	2.000	998	0.0998	0.0998
13	4.000	1055	0.1055	0.1055
14	8.000	1136	0.1136	0.1136
15	10.000	1168	0.1168	0.1168
16	20.000	1287	0.1287	0.1287
17	40.000	1411	0.1411	0.1411
18	80.000	1508	0.1508	0.1508
19	100.000	1535	0.1535	0.1535
20	200.000	1600	0.1600	0.1600
21	400.000	1640	0.1640	0.1640
22	800.000	1680	0.1680	0.1680
23	831.400	1682	0.1682	0.1682



ASTM D2435-96

Test name Consolidation Load: 4.000 (TSF)

Date of Test: 6-15-11

Site Reference: Oregon Inlet
Jobfile: F:\51-11015.JOB

Sample: ST-1
Borehole: B-67

Operator:

AM

Checked:

AM

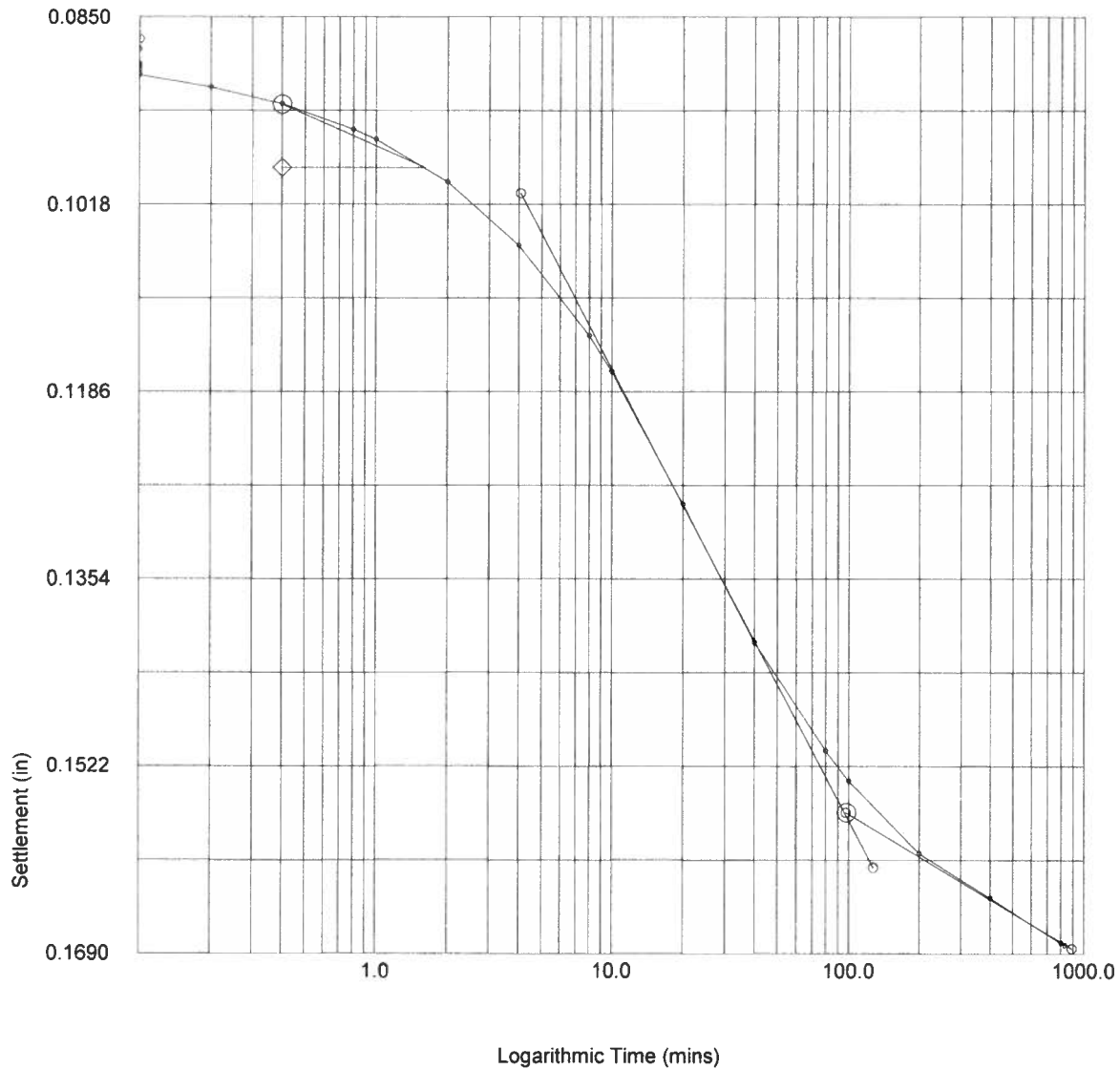
Approved:

AM

Oedometer Settlement Tests

Settlement Stage Results

Vertical Stress (TSF)	4.000
Initial Temp oC	20.0
Correction (in)	0.0
Settlement (in)	0.0812
Voids Ratio e	1.0304
Final Temp oC	0.0
t ₅₀ (mins)	13.57
c _v (ft ² /day)	0.028
m _v (ft ² /ton)	0.049
Sec Compression C _{sec}	0.0127



ASTM D2435-96

Test name Consolidation

Date of Test: 6-15-11

Site Reference: Oregon Inlet
Jobfile: F:\51-11015.JOB

Sample: ST-1
Borehole: B-67

Operator:

Checked:

Approved:

[Signature]

[Signature]

[Signature]

Oedometer Settlement Tests

No.	Time (mins)	Displacement (divs)	Displacement (in)	Settlement (in)
1	0.000	1684	0.1684	0.1684
2	0.017	1675	0.1675	0.1675
3	0.033	1675	0.1675	0.1675
4	0.050	1670	0.1670	0.1670
5	0.067	1665	0.1665	0.1665
6	0.083	1663	0.1663	0.1663
7	0.100	1662	0.1662	0.1662
8	0.200	1656	0.1656	0.1656
9	0.400	1648	0.1648	0.1648
10	0.800	1639	0.1639	0.1639
11	1.000	1636	0.1636	0.1636
12	2.000	1622	0.1622	0.1622
13	4.133	1605	0.1605	0.1605
14	8.133	1586	0.1586	0.1586
15	10.133	1580	0.1580	0.1580
16	20.133	1565	0.1565	0.1565
17	40.133	1555	0.1555	0.1555
18	80.133	1547	0.1547	0.1547
19	100.133	1546	0.1546	0.1546
20	147.333	1544	0.1544	0.1544



ASTM D2435-96

Test name Consolidation Load: 1.000 (TSF)

Date of Test: 6-15-11

Site Reference: Oregon Inlet
Jobfile: F:\51-11015.JOB

Sample: ST-1
Borehole: B-67

Operator:

M

Checked:

M

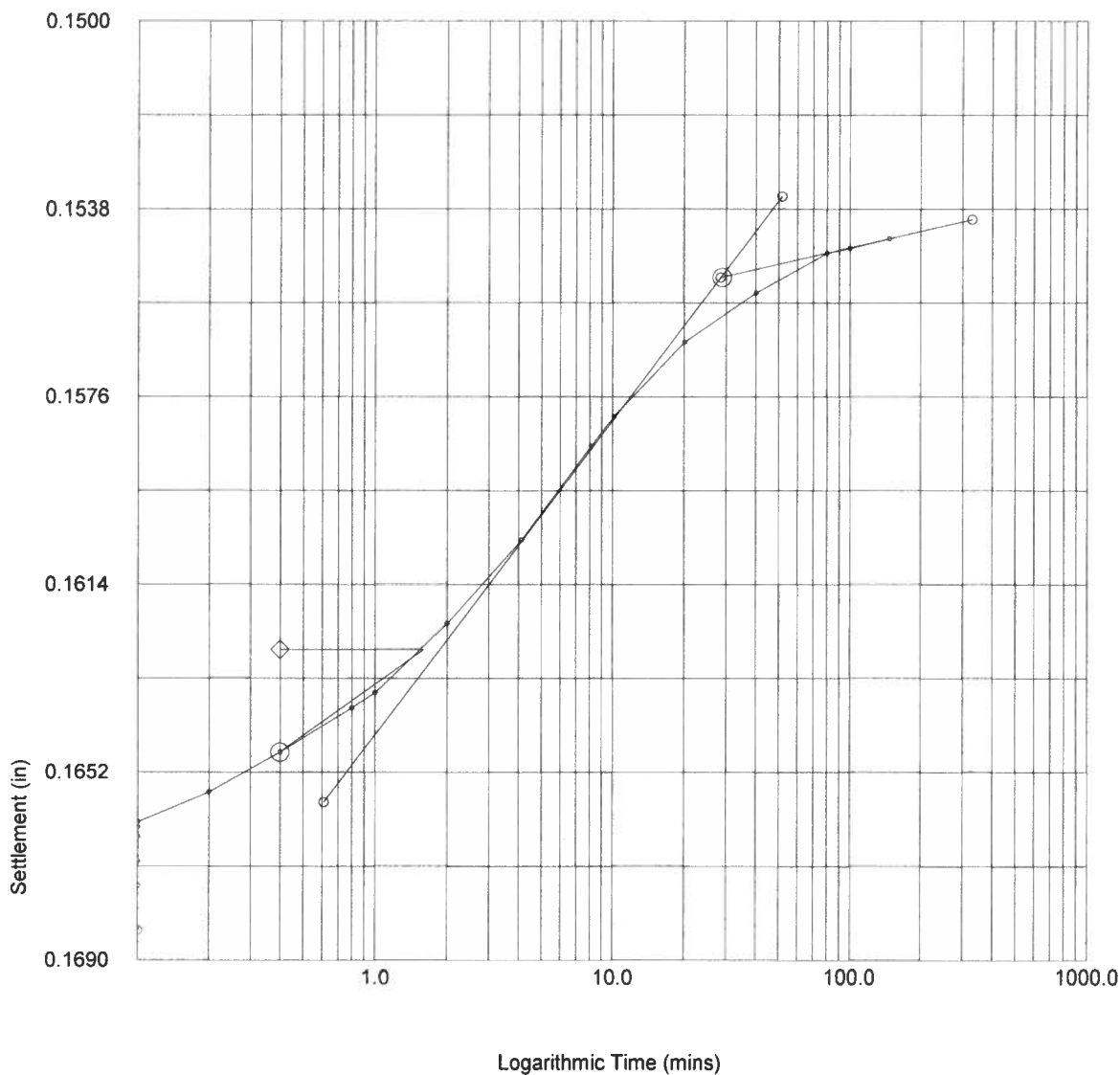
Approved:

ADL

Oedometer Settlement Tests

Settlement Stage Results

Vertical Stress (TSF) 1.000
 Initial Temp oC 20.0
 Correction (in) 0.0
 Settlement (in) 0.014
 Voids Ratio e 1.0641
 Final Temp oC
 t_{50} (mins)
 c_v (ft²/day)
 m_v (ft²/ton)
 Sec Compression C_{sec}



ASTM D2435-96

Test name Consolidation

Date of Test: 6-15-11

Site Reference: Oregon Inlet
Jobfile: F:\51-11015.JOB

Sample: ST-1
Borehole: B-67

Operator: *MW*

Checked: *MW*

Approved: *OP*

Oedometer Settlement Tests

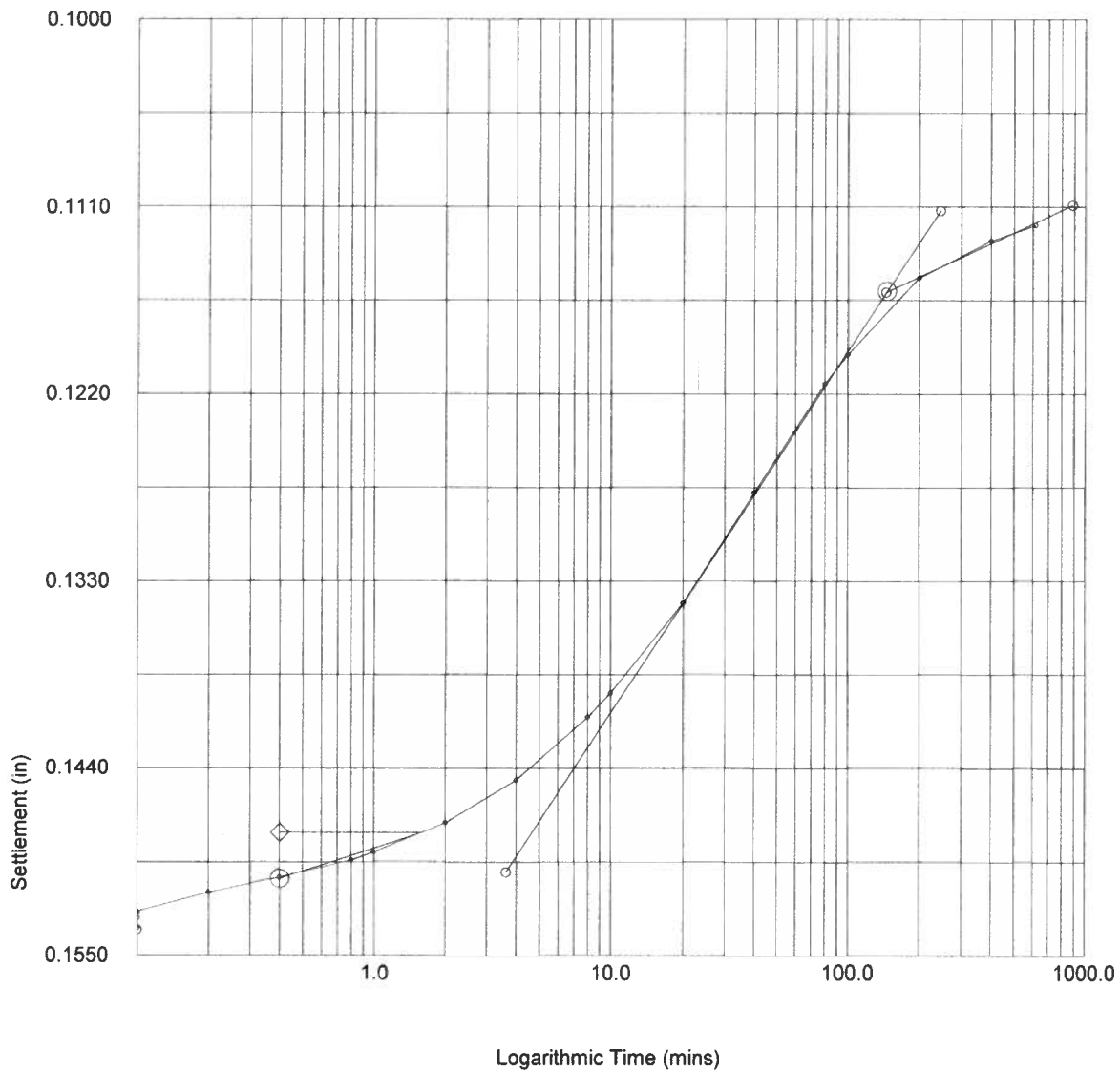
No.	Time (mins)	Displacement (divs)	Displacement (in)	Settlement (in)
1	0.000	1535	0.1535	0.1535
2	0.017	1534	0.1534	0.1534
3	0.033	1534	0.1534	0.1534
4	0.050	1534	0.1534	0.1534
5	0.067	1528	0.1528	0.1528
6	0.083	1525	0.1525	0.1525
7	0.100	1524	0.1524	0.1524
8	0.200	1513	0.1513	0.1513
9	0.400	1504	0.1504	0.1504
10	0.800	1494	0.1494	0.1494
11	1.000	1489	0.1489	0.1489
12	2.000	1472	0.1472	0.1472
13	4.000	1447	0.1447	0.1447
14	8.000	1410	0.1410	0.1410
15	10.000	1396	0.1396	0.1396
16	20.000	1343	0.1343	0.1343
17	40.000	1278	0.1278	0.1278
18	80.000	1214	0.1214	0.1214
19	100.000	1197	0.1197	0.1197
20	200.000	1152	0.1152	0.1152
21	400.000	1130	0.1130	0.1130
22	615.330	1121	0.1121	0.1121

	ASTM D2435-96		Test name	Consolidation Load: 0.050 (TSF)	
			Date of Test:	6-15-11	
	Site Reference: Oregon Inlet		Sample:	ST-1	
	Jobfile: F:\51-11015.JOB		Borehole:	B-67	
Operator: 		Checked: 		Approved: 	

Oedometer Settlement Tests

Settlement Stage Results

Vertical Stress (TSF) 0.050
 Initial Temp oC 20.0
 Correction (in) 0.0
 Settlement (in) 0.0414
 Voids Ratio e 1.1675
 Final Temp oC
 t_{50} (mins)
 c_v (ft²/day)
 m_v (ft²/ton)
 Sec Compression C_{sec}



ASTM D2435-96

Test name Consolidation

Date of Test: 6-15-11

Site Reference: Oregon Inlet
Jobfile: F:\51-11015.JOB

Sample: ST-1
Borehole: B-67

Operator:

Checked:

Approved:

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Oedometer Settlement Tests

Sample details

Sketch showing specimen location in original Sample



Depth 41 - 43 ft.
Description: Gray Coarse to Fine Sandy Silty CLAY A-6 (5)

Type Undisturbed
Height H_0 (in) 0.999
Diameter D_0 (in) 2.501
Weight W_0 (gr) 148.5
Bulk Density ρ (PCF) 115.27
Particle Density ρ_s 2.656
(measured)

Initial Conditions

Settlement Channel 1942
Moisture Content w_0 % 34.7
Dry Density ρ_d (PCF) 85.59
Voids Ratio e_0 0.9364
Deg of Saturation S_0 % 98.4
Swelling Pressure S_s (TSF) 0.000

Final Conditions

Moisture Content w_f % 30.5
Dry Density ρ_d (PCF) 96.80
Voids Ratio e_f 0.7121
Deg of Saturation S_f % 100.00
Settlement: (in) 0.116
Compression Index C_c 0.179

Notes: Test specimen taken from the middle portion of UD tube.



ASTM D2435-96

Test name Consolidation
Date of Test: 6-15-11

Site Reference: Oregon Inlet B-2500
Jobfile: F:\51-11015.JOB

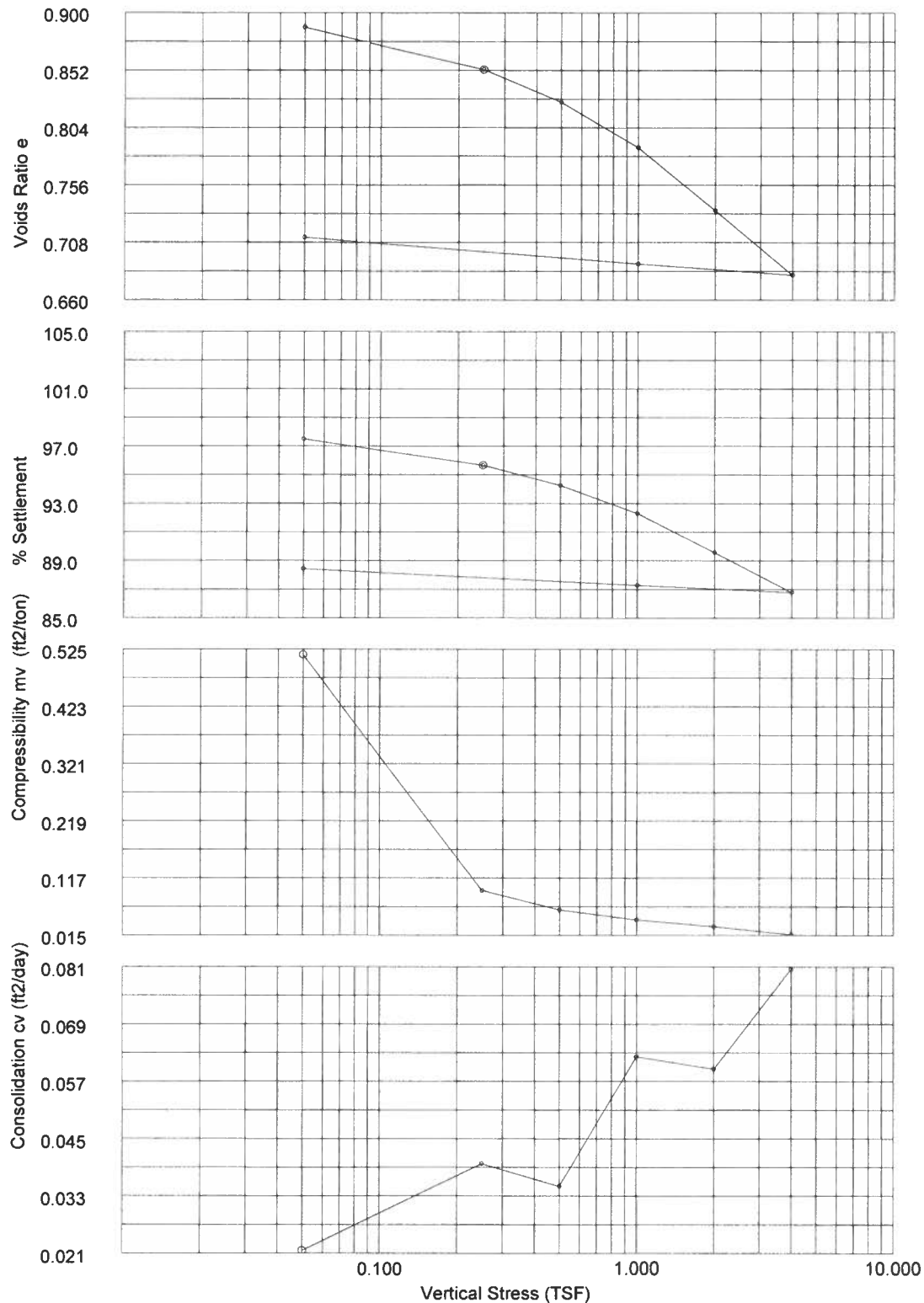
Sample: ST-2
Borehole: B-53

Operator: 

Checked: 

Approved: 

Oedometer Settlement Tests



ASTM D2435-96

Test name Consolidation

Date of Test: 6-15-11

Site Reference: Oregon Inlet
Jobfile: F:\51-11015.JOB

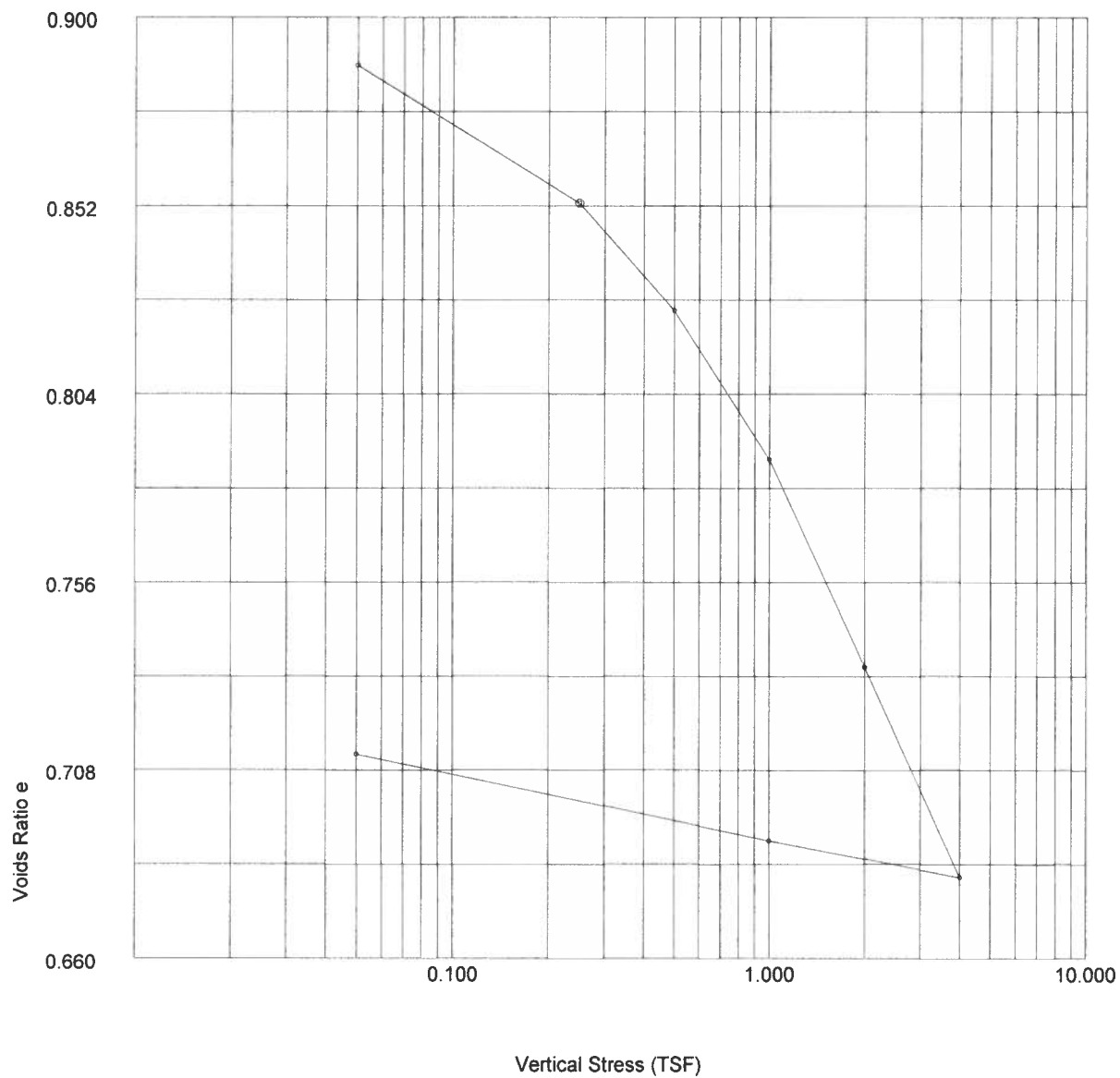
Sample: ST-2
Borehole: B-53

Operator: *[Signature]*

Checked: *[Signature]*

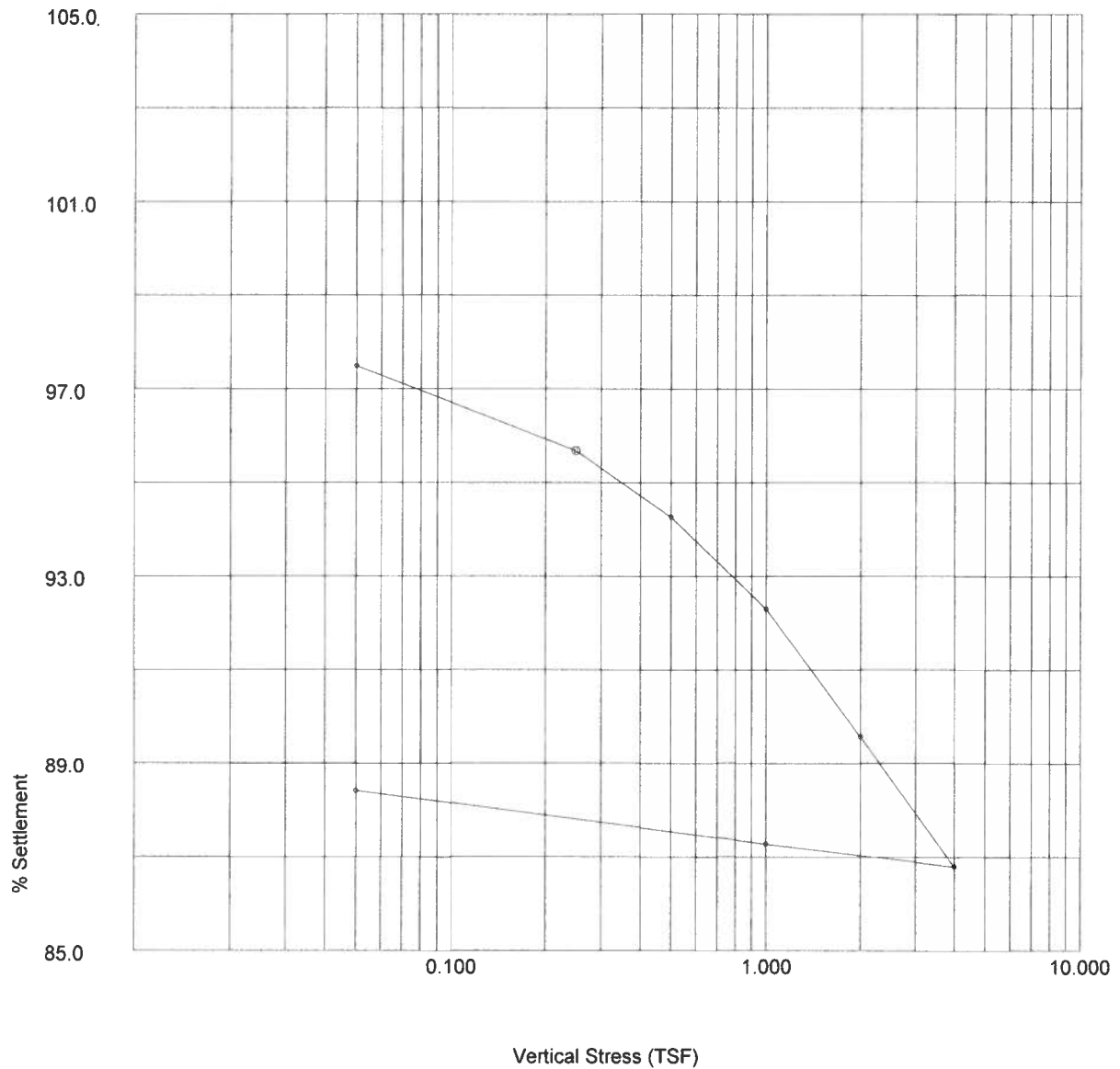
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Oedometer Settlement Tests



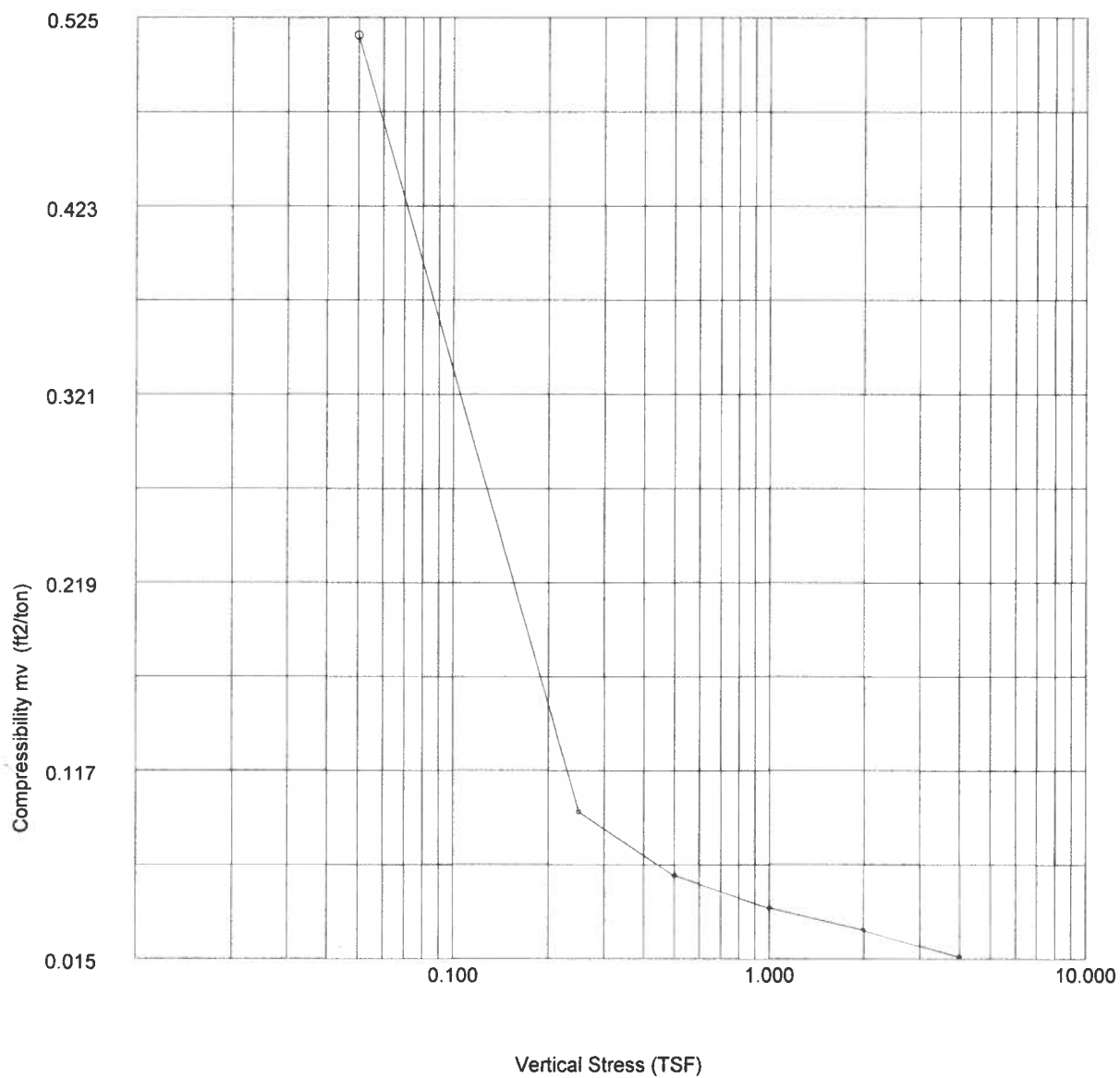
	ASTM D2435-96		Test name	Consolidation
			Date of Test:	6-15-11
	Site Reference:	Oregon Inlet	Sample:	ST-2
	Jobfile:	F:\51-11015.JOB	Borehole:	B-53
Operator:			Checked:	
			Approved:	

Oedometer Settlement Tests



	ASTM D2435-96		Test name	Consolidation
			Date of Test:	6-15-11
	Site Reference:	Oregon Inlet	Sample:	ST-2
	Jobfile:	F:\51-11015.JOB	Borehole:	B-53
Operator:		Checked:	Approved:	
				

Oedometer Settlement Tests



ASTM D2435-96

Test name Consolidation

Date of Test: 6-15-11

Site Reference: Oregon Inlet
Jobfile: F:\51-11015.JOB

Sample: ST-2
Borehole: B-53

Operator:

Checked:

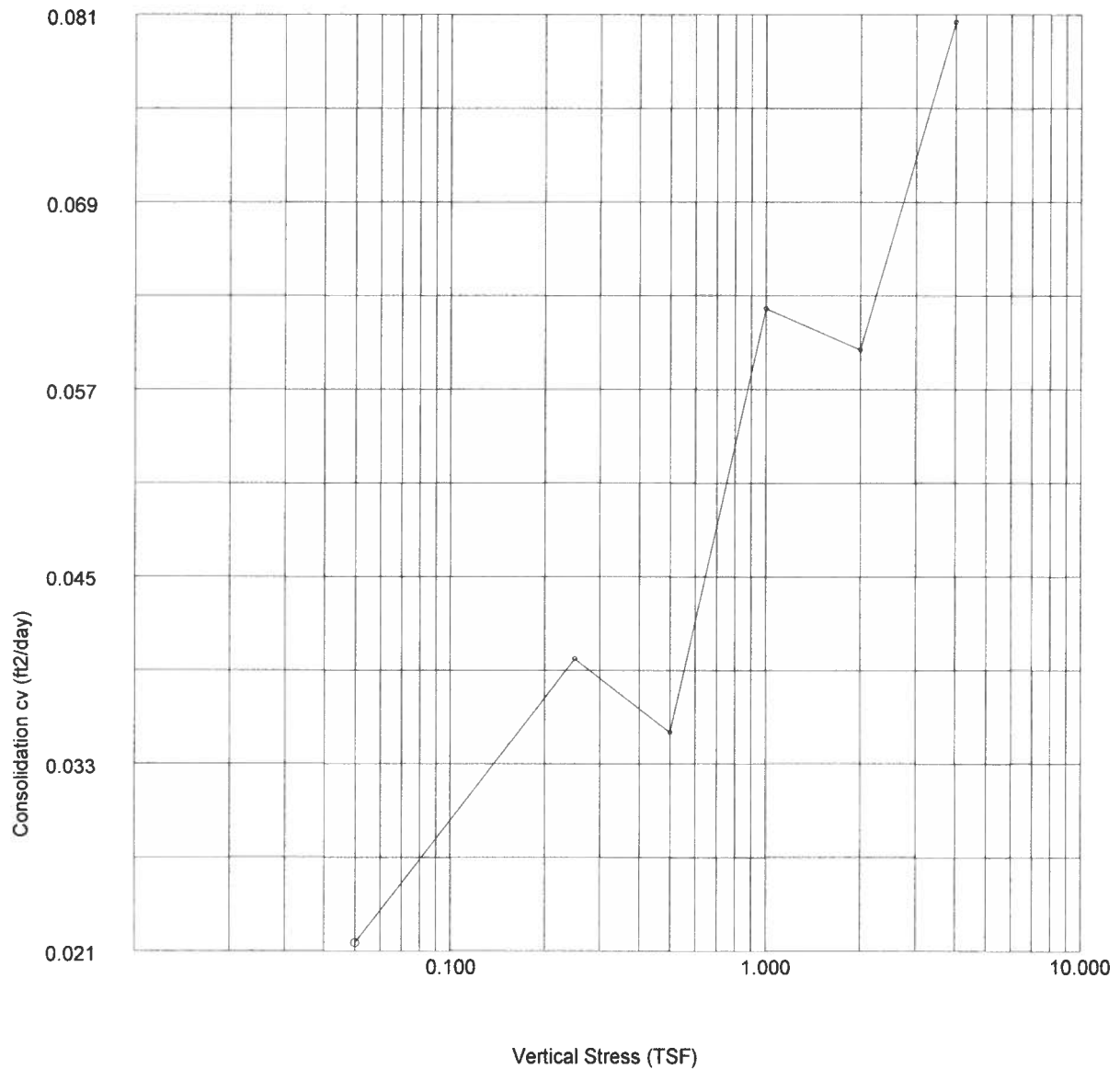
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Oedometer Settlement Tests



	ASTM D2435-96		Test name	Consolidation
			Date of Test:	6-15-11
	Site Reference:	Oregon Inlet	Sample:	ST-2
	Jobfile:	F:\51-11015.JOB	Borehole:	B-53
Operator:		Checked:	Approved:	
				

Oedometer Settlement Tests

Stress (TSF)	Initial Temp. oC	Settlement Total (in)	Cal Corr. (in)	Final Temp. oC	Voids Ratio e_f	t_{50} (mins)	Secondary Compr C_{sec}	c_v (ft ² /day)	m_v (ft ² /ton)
0.050	20.0	0.0251	0.0	20.0	0.8877	22.580	0.0026	0.022	0.515
0.250	20.0	0.0432	0.0	20.0	0.8526	11.715	0.0024	0.040	0.095
0.500	20.0	0.0573	0.0	20.0	0.8253	12.852	0.0029	0.035	0.060
1.000	20.0	0.0769	0.0	20.0	0.7873	6.984	0.0041	0.062	0.043
2.000	20.0	0.1042	0.0	20.0	0.7344	6.930	0.0031	0.060	0.031
4.000	20.0	0.1319	0.0	20.0	0.6807	4.821	0.0058	0.080	0.016
1.000	20.0	0.1271	0.0	20.0	0.6900				0.002
0.050	20.0	0.1157	0.0	20.0	0.7121				0.014



ASTM D2435-96

Test name Consolidation

Date of Test: 6-15-11

Site Reference: Oregon Inlet
Jobfile: F:\51-11015.JOB

Sample: ST-2
Borehole: B-53

Operator: 

Checked: 

Approved: 

Oedometer Settlement Tests

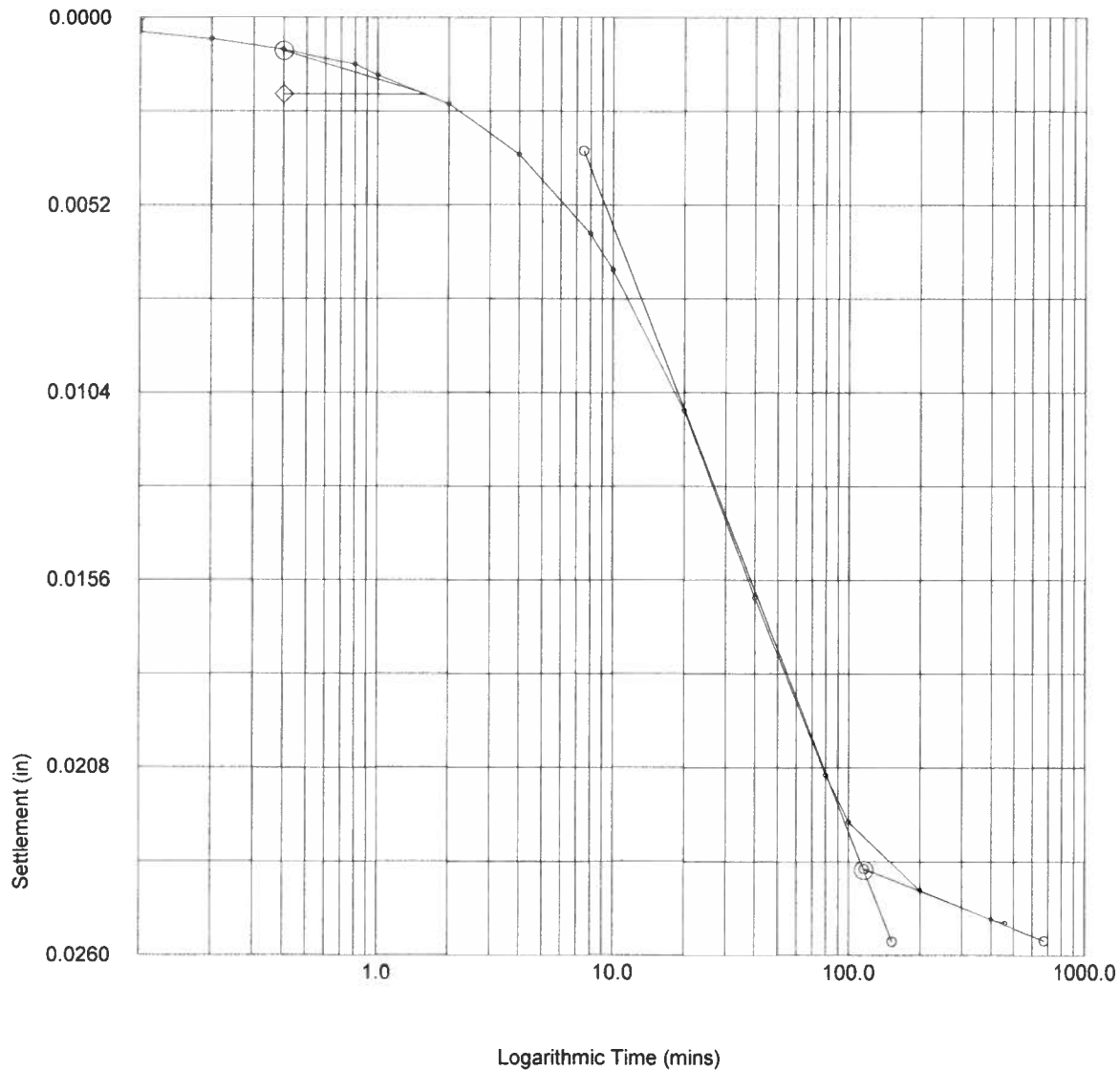
No.	Time (mins)	Displacement (divs)	Displacement (in)	Settlement (in)
1	0.000	0	0.0000	0.0000
2	0.017	1	0.0001	0.0001
3	0.033	1	0.0001	0.0001
4	0.050	2	0.0002	0.0002
5	0.067	2	0.0002	0.0002
6	0.083	3	0.0003	0.0003
7	0.100	4	0.0004	0.0004
8	0.200	6	0.0006	0.0006
9	0.400	9	0.0009	0.0009
10	0.800	13	0.0013	0.0013
11	1.000	16	0.0016	0.0016
12	2.000	24	0.0024	0.0024
13	4.000	38	0.0038	0.0038
14	8.000	60	0.0060	0.0060
15	10.000	70	0.0070	0.0070
16	20.000	109	0.0109	0.0109
17	40.000	161	0.0161	0.0161
18	80.000	210	0.0210	0.0210
19	100.000	223	0.0223	0.0223
20	200.000	242	0.0242	0.0242
21	400.067	250	0.0250	0.0250
22	458.867	251	0.0251	0.0251

	ASTM D2435-96		Test name	Consolidation Load: 0.050 (TSF)	
			Date of Test:	6-15-11	
	Site Reference: Oregon Inlet		Sample:	ST-2	
	Jobfile: F:\51-11015.JOB		Borehole:	B-53	
Operator: 		Checked: 		Approved: 	

Oedometer Settlement Tests

Settlement Stage Results

Vertical Stress (TSF)	0.050
Initial Temp oC	20.0
Correction (in)	0.0
Settlement (in)	0.0251
Voids Ratio e	0.8877
Final Temp oC	0.0
t ₅₀ (mins)	22.58
c _v (ft ² /day)	0.022
m _v (ft ² /ton)	0.515
Sec Compression C _{sec}	0.0026



ASTM D2435-96

Test name Consolidation

Date of Test: 6-15-11

Site Reference: Oregon Inlet
Jobfile: F:\51-11015.JOB

Sample: ST-2
Borehole: B-53

Operator:

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Approved:

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Oedometer Settlement Tests

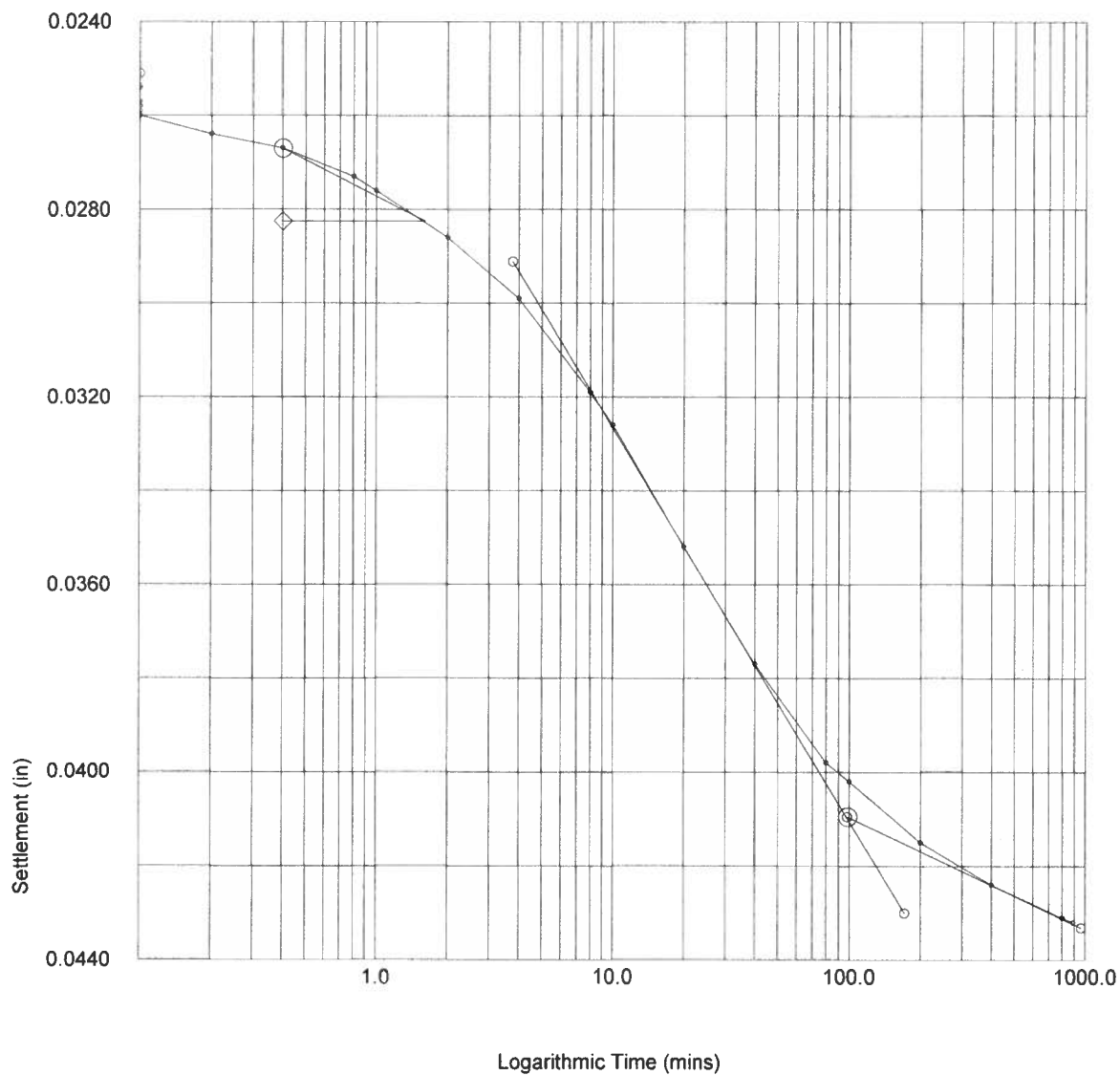
No.	Time (mins)	Displacement (divs)	Displacement (in)	Settlement (in)
1	0.000	251	0.0251	0.0251
2	0.017	254	0.0254	0.0254
3	0.033	257	0.0257	0.0257
4	0.050	257	0.0257	0.0257
5	0.067	258	0.0258	0.0258
6	0.083	259	0.0259	0.0259
7	0.100	260	0.0260	0.0260
8	0.200	264	0.0264	0.0264
9	0.400	267	0.0267	0.0267
10	0.800	273	0.0273	0.0273
11	1.000	276	0.0276	0.0276
12	2.000	286	0.0286	0.0286
13	4.000	299	0.0299	0.0299
14	8.000	319	0.0319	0.0319
15	10.000	326	0.0326	0.0326
16	20.000	352	0.0352	0.0352
17	40.000	377	0.0377	0.0377
18	80.000	398	0.0398	0.0398
19	100.000	402	0.0402	0.0402
20	200.000	415	0.0415	0.0415
21	400.000	424	0.0424	0.0424
22	800.000	431	0.0431	0.0431
23	886.583	432	0.0432	0.0432

	ASTM D2435-96		Test name	Consolidation Load: 0.250 (TSF)
			Date of Test:	6-15-11
	Site Reference:	Oregon Inlet	Sample:	ST-2
	Jobfile:	F:\51-11015.JOB	Borehole:	B-53
Operator:		Checked:	Approved:	
				

Oedometer Settlement Tests

Settlement Stage Results

Vertical Stress (TSF)	0.250
Initial Temp oC	20.0
Correction (in)	0.0
Settlement (in)	0.0181
Voids Ratio e	0.8526
Final Temp oC	0.0
t_{50} (mins)	11.71
c_v (ft ² /day)	0.04
m_v (ft ² /ton)	0.095
Sec Compression C_{sec}	0.0024



ASTM D2435-96

Test name Consolidation

Date of Test: 6-15-11

Site Reference: Oregon Inlet
Jobfile: F:\51-11015.JOB

Sample: ST-2
Borehole: B-53

Operator:

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Oedometer Settlement Tests

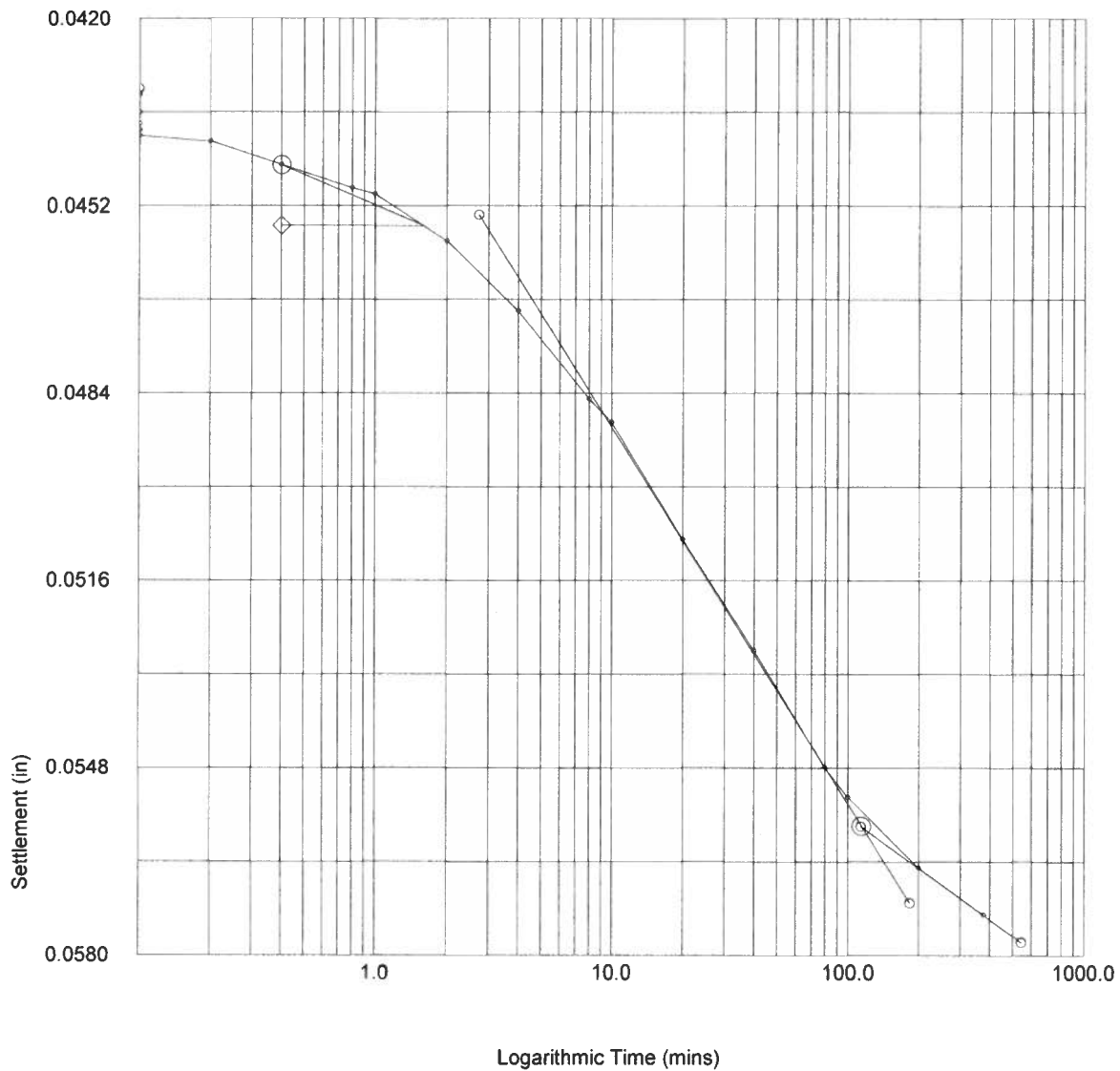
No.	Time (mins)	Displacement (divs)	Displacement (in)	Settlement (in)
1	0.000	432	0.0432	0.0432
2	0.017	433	0.0433	0.0433
3	0.033	433	0.0433	0.0433
4	0.050	436	0.0436	0.0436
5	0.067	438	0.0438	0.0438
6	0.083	439	0.0439	0.0439
7	0.100	440	0.0440	0.0440
8	0.200	441	0.0441	0.0441
9	0.400	445	0.0445	0.0445
10	0.800	449	0.0449	0.0449
11	1.000	450	0.0450	0.0450
12	2.000	458	0.0458	0.0458
13	4.000	470	0.0470	0.0470
14	8.000	485	0.0485	0.0485
15	10.000	489	0.0489	0.0489
16	20.000	509	0.0509	0.0509
17	40.000	528	0.0528	0.0528
18	80.000	548	0.0548	0.0548
19	100.000	553	0.0553	0.0553
20	200.000	565	0.0565	0.0565
21	376.800	573	0.0573	0.0573

	ASTM D2435-96		Test name	Consolidation Load: 0.500 (TSF)	
			Date of Test:	6-15-11	
	Site Reference:	Oregon Inlet	Sample:	ST-2	
	Jobfile:	F:\51-11015.JOB	Borehole:	B-53	
Operator: 		Checked: 		Approved: 	

Oedometer Settlement Tests

Settlement Stage Results

Vertical Stress (TSF)	0.500
Initial Temp oC	20.0
Correction (in)	0.0
Settlement (in)	0.0141
Voids Ratio e	0.8253
Final Temp oC	0.0
t ₅₀ (mins)	12.85
c _v (ft ² /day)	0.035
m _v (ft ² /ton)	0.06
Sec Compression C _{sec}	0.0029



ASTM D2435-96

Test name Consolidation

Date of Test: 6-15-11

Site Reference: Oregon Inlet
Jobfile: F:\51-11015.JOB

Sample: ST-2
Borehole: B-53

Operator:

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Approved:

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Oedometer Settlement Tests

No.	Time (mins)	Displacement (divs)	Displacement (in)	Settlement (in)
1	0.000	575	0.0575	0.0575
2	0.017	582	0.0582	0.0582
3	0.033	582	0.0582	0.0582
4	0.050	584	0.0584	0.0584
5	0.067	585	0.0585	0.0585
6	0.083	586	0.0586	0.0586
7	0.100	588	0.0588	0.0588
8	0.200	593	0.0593	0.0593
9	0.400	599	0.0599	0.0599
10	0.800	608	0.0608	0.0608
11	1.000	610	0.0610	0.0610
12	2.000	624	0.0624	0.0624
13	4.000	641	0.0641	0.0641
14	8.000	665	0.0665	0.0665
15	10.000	674	0.0674	0.0674
16	20.000	704	0.0704	0.0704
17	40.000	729	0.0729	0.0729
18	80.000	748	0.0748	0.0748
19	100.000	753	0.0753	0.0753
20	200.000	767	0.0767	0.0767
21	241.633	769	0.0769	0.0769



ASTM D2435-96

Test name Consolidation Load: 1.000 (TSF)

Date of Test: 6-15-11

Site Reference: Oregon Inlet
Jobfile: F:\51-11015.JOB

Sample: ST-2
Borehole: B-53

Operator:

Checked:

Approved:

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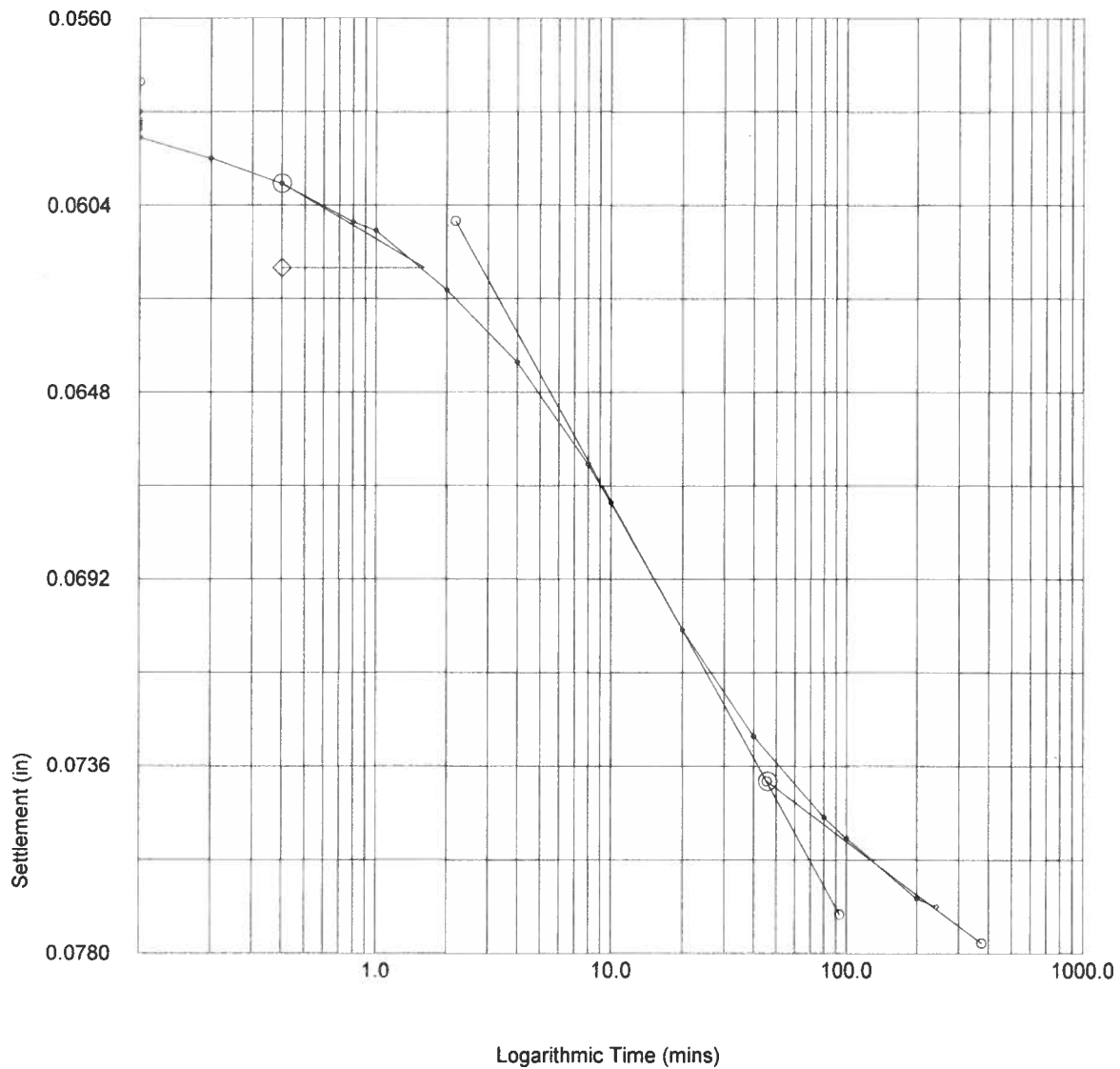
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Oedometer Settlement Tests

Settlement Stage Results

Vertical Stress (TSF)	1.000
Initial Temp oC	20.0
Correction (in)	0.0
Settlement (in)	0.0194
Voids Ratio e	0.7873
Final Temp oC	0.0
t_{50} (mins)	6.98
c_v (ft ² /day)	0.062
m_v (ft ² /ton)	0.043
Sec Compression C_{sec}	0.0041



ASTM D2435-96

Test name Consolidation

Date of Test: 6-15-11

Site Reference: Oregon Inlet
Jobfile: F:\51-11015.JOB

Sample: ST-2
Borehole: B-53

Operator:

Checked:

Approved:

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Oedometer Settlement Tests

No.	Time (mins)	Displacement (divs)	Displacement (in)	Settlement (in)
1	0.000	769	0.0769	0.0769
2	0.017	770	0.0770	0.0770
3	0.033	784	0.0784	0.0784
4	0.050	787	0.0787	0.0787
5	0.067	789	0.0789	0.0789
6	0.083	792	0.0792	0.0792
7	0.100	792	0.0792	0.0792
8	0.200	799	0.0799	0.0799
9	0.400	808	0.0808	0.0808
10	0.800	818	0.0818	0.0818
11	1.000	824	0.0824	0.0824
12	2.000	842	0.0842	0.0842
13	4.000	869	0.0869	0.0869
14	8.000	902	0.0902	0.0902
15	10.000	913	0.0913	0.0913
16	20.000	947	0.0947	0.0947
17	40.000	977	0.0977	0.0977
18	80.000	999	0.0999	0.0999
19	100.000	1003	0.1003	0.1003
20	200.000	1018	0.1018	0.1018
21	400.000	1032	0.1032	0.1032
22	800.000	1042	0.1042	0.1042
23	835.450	1042	0.1042	0.1042



ASTM D2435-96

Test name Consolidation Load: 2.000 (TSF)

Date of Test: 6-15-11

Site Reference: Oregon Inlet
Jobfile: F:\51-11015.JOB

Sample: ST-2
Borehole: B-53

Operator:

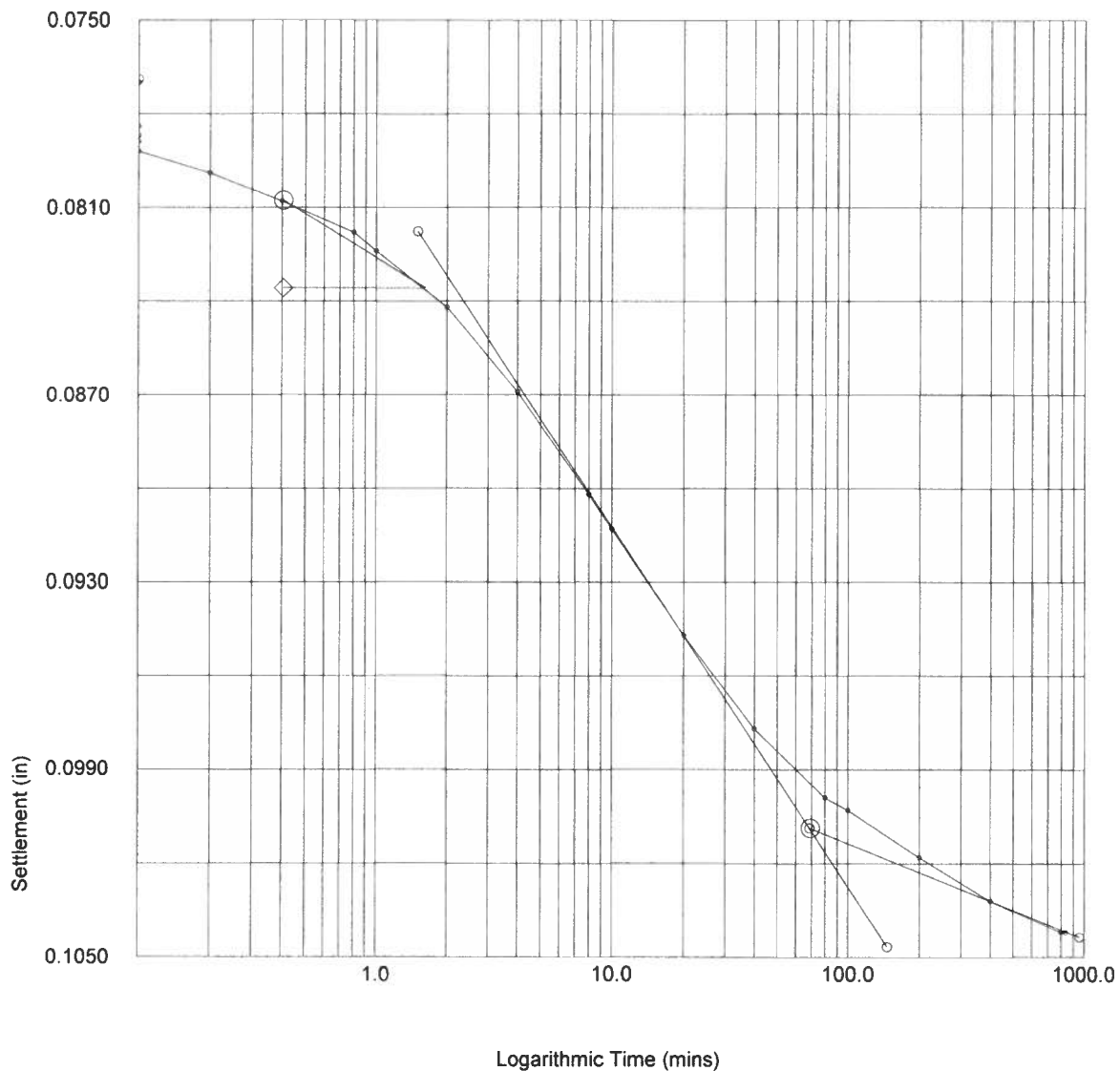
Checked:

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Oedometer Settlement Tests

Settlement Stage Results

Vertical Stress (TSF)	2.000
Initial Temp oC	20.0
Correction (in)	0.0
Settlement (in)	0.0273
Voids Ratio e	0.7344
Final Temp oC	0.0
t_{50} (mins)	6.93
c_v (ft ² /day)	0.06
m_v (ft ² /ton)	0.031
Sec Compression C_{sec}	0.0031



ASTM D2435-96

Test name Consolidation

Date of Test: 6-15-11

Site Reference: Oregon Inlet
Jobfile: F:\51-11015.JOB

Sample: ST-2
Borehole: B-53

Operator:

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Checked:

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Approved:

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Oedometer Settlement Tests

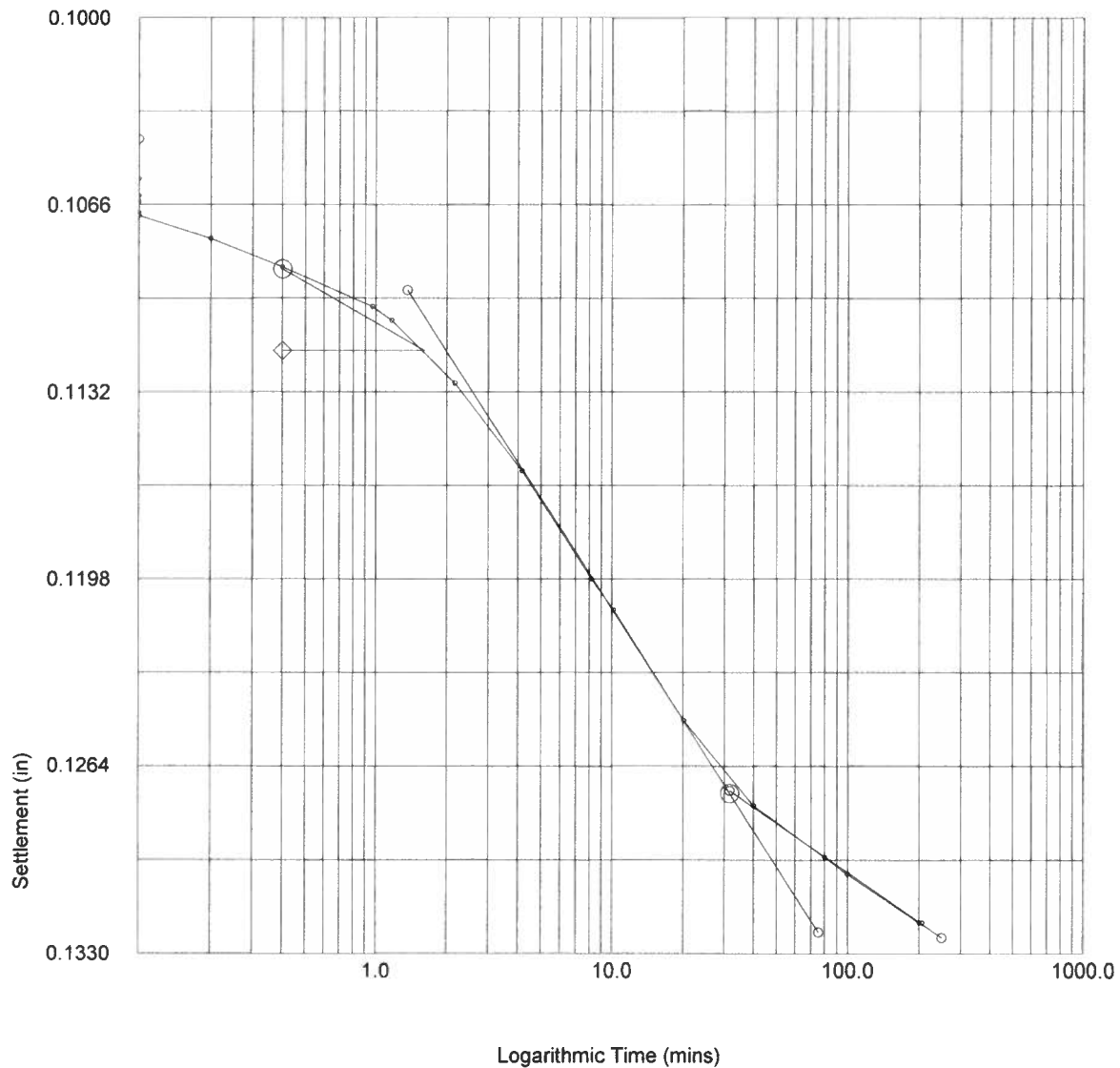
No.	Time (mins)	Displacement (divs)	Displacement (in)	Settlement (in)
1	0.000	1043	0.1043	0.1043
2	0.017	1057	0.1057	0.1057
3	0.033	1057	0.1057	0.1057
4	0.050	1063	0.1063	0.1063
5	0.067	1065	0.1065	0.1065
6	0.083	1069	0.1069	0.1069
7	0.100	1070	0.1070	0.1070
8	0.200	1078	0.1078	0.1078
9	0.400	1088	0.1088	0.1088
10	0.967	1102	0.1102	0.1102
11	1.167	1107	0.1107	0.1107
12	2.167	1129	0.1129	0.1129
13	4.167	1160	0.1160	0.1160
14	8.167	1198	0.1198	0.1198
15	10.167	1209	0.1209	0.1209
16	20.167	1248	0.1248	0.1248
17	40.167	1278	0.1278	0.1278
18	80.167	1296	0.1296	0.1296
19	100.167	1302	0.1302	0.1302
20	200.167	1319	0.1319	0.1319
21	205.767	1319	0.1319	0.1319

	ASTM D2435-96		Test name	Consolidation Load: 4.000 (TSF)	
			Date of Test:	6-15-11	
	Site Reference: Oregon Inlet		Sample:	ST-2	
	Jobfile: F:\51-11015.JOB		Borehole:	B-53	
Operator: 		Checked: 		Approved: 	

Oedometer Settlement Tests

Settlement Stage Results

Vertical Stress (TSF)	4.000
Initial Temp oC	20.0
Correction (in)	0.0
Settlement (in)	0.0276
Voids Ratio e	0.6807
Final Temp oC	0.0
t ₅₀ (mins)	4.82
c _v (ft ² /day)	0.08
m _v (ft ² /ton)	0.016
Sec Compression C _{sec}	0.0058



ASTM D2435-96

Test name Consolidation

Date of Test: 6-15-11

Site Reference: Oregon Inlet
Jobfile: F:\51-11015.JOB

Sample: ST-2
Borehole: B-53

Operator:

Checked:

Approved:

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Oedometer Settlement Tests

No.	Time (mins)	Displacement (divs)	Displacement (in)	Settlement (in)
1	0.000	1319	0.1319	0.1319
2	0.017	1316	0.1316	0.1316
3	0.033	1311	0.1311	0.1311
4	0.050	1310	0.1310	0.1310
5	0.067	1303	0.1303	0.1303
6	0.083	1302	0.1302	0.1302
7	0.100	1301	0.1301	0.1301
8	0.200	1297	0.1297	0.1297
9	0.400	1294	0.1294	0.1294
10	0.800	1289	0.1289	0.1289
11	1.000	1288	0.1288	0.1288
12	2.000	1281	0.1281	0.1281
13	4.000	1278	0.1278	0.1278
14	8.000	1274	0.1274	0.1274
15	10.000	1273	0.1273	0.1273
16	20.000	1273	0.1273	0.1273
17	40.000	1273	0.1273	0.1273
18	80.000	1271	0.1271	0.1271
19	100.000	1271	0.1271	0.1271
20	107.983	1271	0.1271	0.1271



ASTM D2435-96

Test name Consolidation Load: 1.000 (TSF)

Date of Test: 6-15-11

Site Reference: Oregon Inlet
Jobfile: F:\51-11015.JOB

Sample: ST-2
Borehole: B-53

Operator:

Checked:

Approved:

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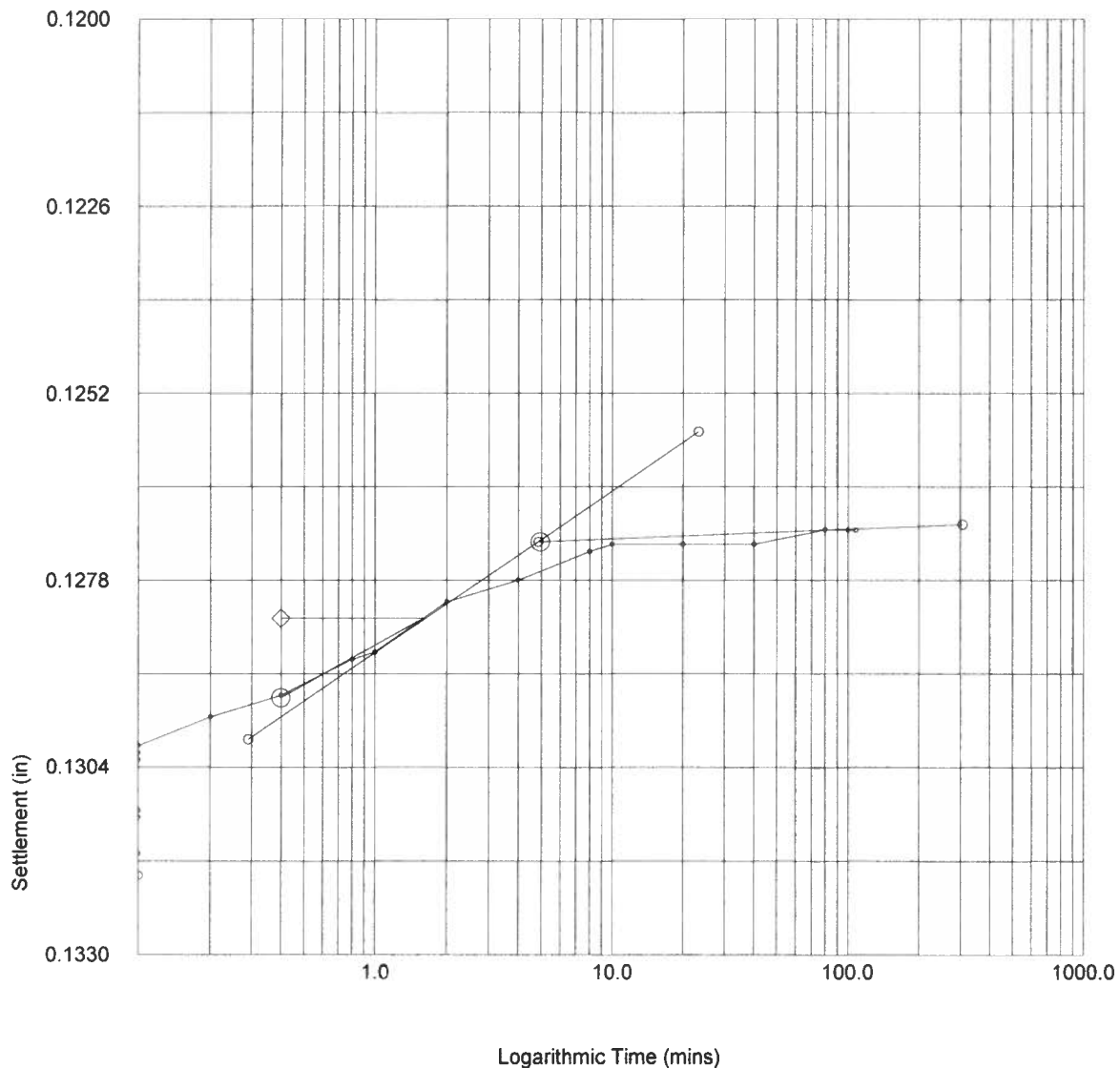
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Oedometer Settlement Tests

Settlement Stage Results

Vertical Stress (TSF) 1.000
 Initial Temp oC 20.0
 Correction (in) 0.0
 Settlement (in) 0.0048
 Voids Ratio e 0.6900
 Final Temp oC
 t_{50} (mins)
 c_v (ft²/day)
 m_v (ft²/ton)
 Sec Compression C_{sec}



ASTM D2435-96

Test name Consolidation

Date of Test: 6-15-11

Site Reference: Oregon Inlet
Jobfile: F:\51-11015.JOB

Sample: ST-2
Borehole: B-53

Operator: *Am*

Checked: *Am*

Approved: *Am*

Oedometer Settlement Tests

No.	Time (mins)	Displacement (divs)	Displacement (in)	Settlement (in)
1	0.000	1271	0.1271	0.1271
2	0.017	1264	0.1264	0.1264
3	0.033	1264	0.1264	0.1264
4	0.050	1264	0.1264	0.1264
5	0.067	1262	0.1262	0.1262
6	0.083	1257	0.1257	0.1257
7	0.100	1257	0.1257	0.1257
8	0.200	1255	0.1255	0.1255
9	0.400	1250	0.1250	0.1250
10	0.800	1245	0.1245	0.1245
11	1.000	1242	0.1242	0.1242
12	2.000	1233	0.1233	0.1233
13	4.000	1223	0.1223	0.1223
14	8.000	1208	0.1208	0.1208
15	10.000	1203	0.1203	0.1203
16	20.000	1186	0.1186	0.1186
17	40.000	1174	0.1174	0.1174
18	80.000	1164	0.1164	0.1164
19	100.000	1162	0.1162	0.1162
20	200.000	1158	0.1158	0.1158
21	256.330	1157	0.1157	0.1157

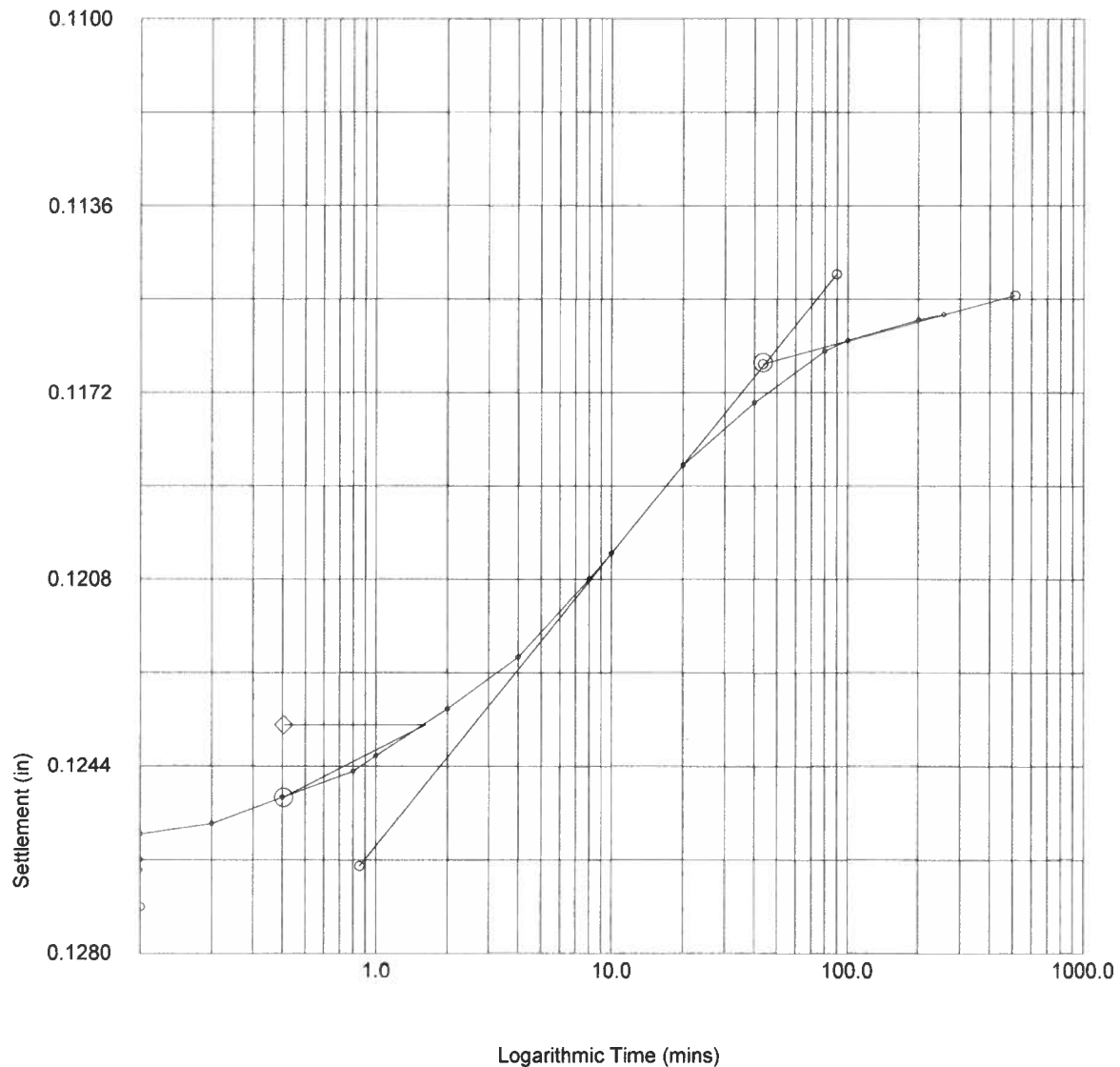
	ASTM D2435-96		Test name	Consolidation Load: 0.050 (TSF)	
			Date of Test:	6-15-11	
	Site Reference: Oregon Inlet		Sample:	ST-2	
	Jobfile: F:\51-11015.JOB		Borehole:	B-53	
Operator: 		Checked: 		Approved: 	

Oedometer Settlement Tests

Settlement Stage Results

Vertical Stress (TSF) 0.050
 Initial Temp oC 20.0
 Correction (in) 0.0
 Settlement (in) 0.0114
 Voids Ratio e 0.7121

Final Temp oC
 t_{50} (mins)
 c_v (ft²/day)
 m_v (ft²/ton)
 Sec Compression C_{sec}



ASTM D2435-96

Test name Consolidation

Date of Test: 6-15-11

Site Reference: Oregon Inlet
 Jobfile: F:\51-11015.JOB

Sample: ST-2
 Borehole: B-53

Operator:

Checked:

Approved:

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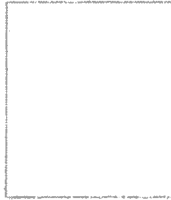
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Oedometer Settlement Tests

Sample details

Sketch showing specimen location in original Sample



Depth 58 - 60 ft.
Description: Gray Fine Sandy Silty CLAY A-6 (11)

Type Undisturbed
Height H_0 (in) 0.999
Diameter D_0 (in) 2.501
Weight W_0 (gr) 146.07
Bulk Density ρ (PCF) 113.38
Particle Density ρ_s 2.681
(measured)

Initial Conditions

Settlement Channel 1066
Moisture Content w_0 % 32.8
Dry Density ρ_d (PCF) 85.36
Voids Ratio e_0 0.9598
Deg of Saturation S_0 % 91.7
Swelling Pressure S_s (TSF) 0.000

Final Conditions

Moisture Content w_f % 34.6
Dry Density ρ_d (PCF) 97.69
Voids Ratio e_f 0.7126
Deg of Saturation S_f % 100.00
Settlement: (in) 0.126
Compression Index C_c 0.231

Notes: Test specimen taken from the top portion of UD tube.



ASTM D2435-96

Test name Consolidation

Date of Test: 6-15-11

Site Reference: Oregon Inlet B-2500

Sample: ST-3

Jobfile: F:\51-11015.JOB

Borehole: B-53

Operator:

Checked:

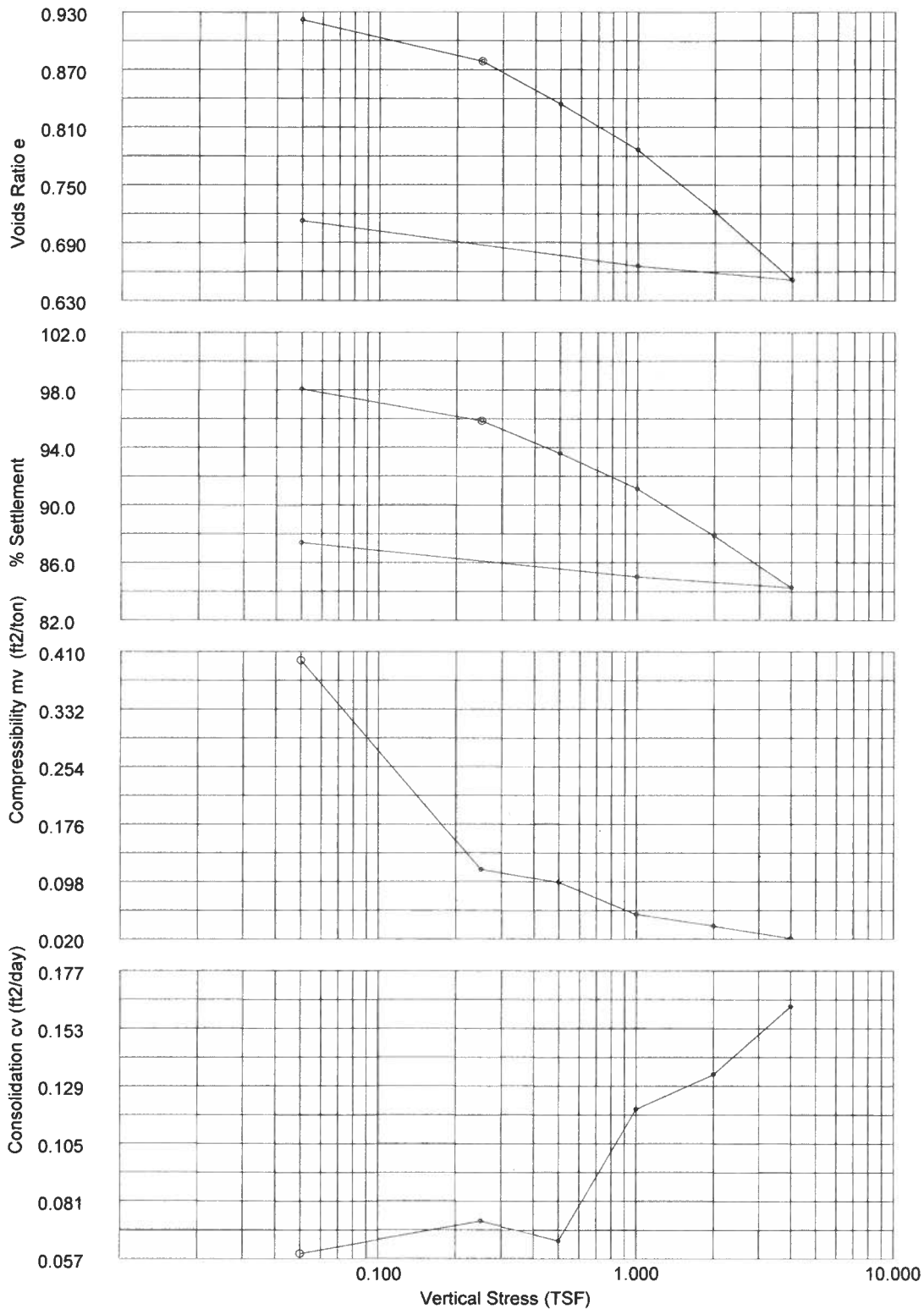
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Oedometer Settlement Tests



ASTM D2435-96

Test name Consolidation
Date of Test: 6-15-11

Site Reference: Oregon Inlet
Jobfile: F:\51-11015.JOB

Sample: ST-3
Borehole: B-53

Operator:

Checked:

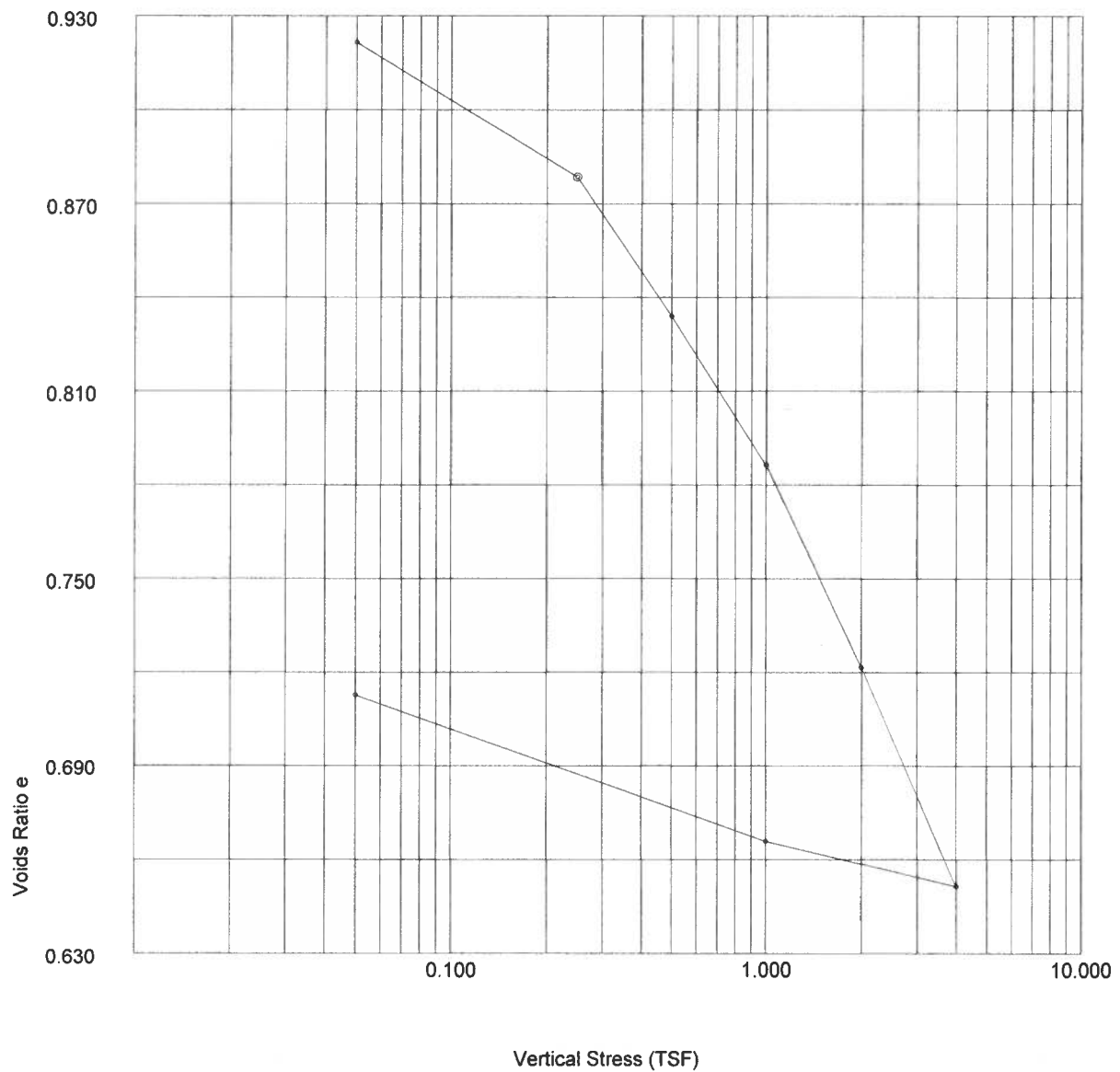
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Oedometer Settlement Tests



ASTM D2435-96

Test name: Consolidation
Date of Test: 6-15-11

Site Reference: Oregon Inlet
Jobfile: F:\51-11015.JOB

Sample: ST-3
Borehole: B-53

Operator:

Checked:

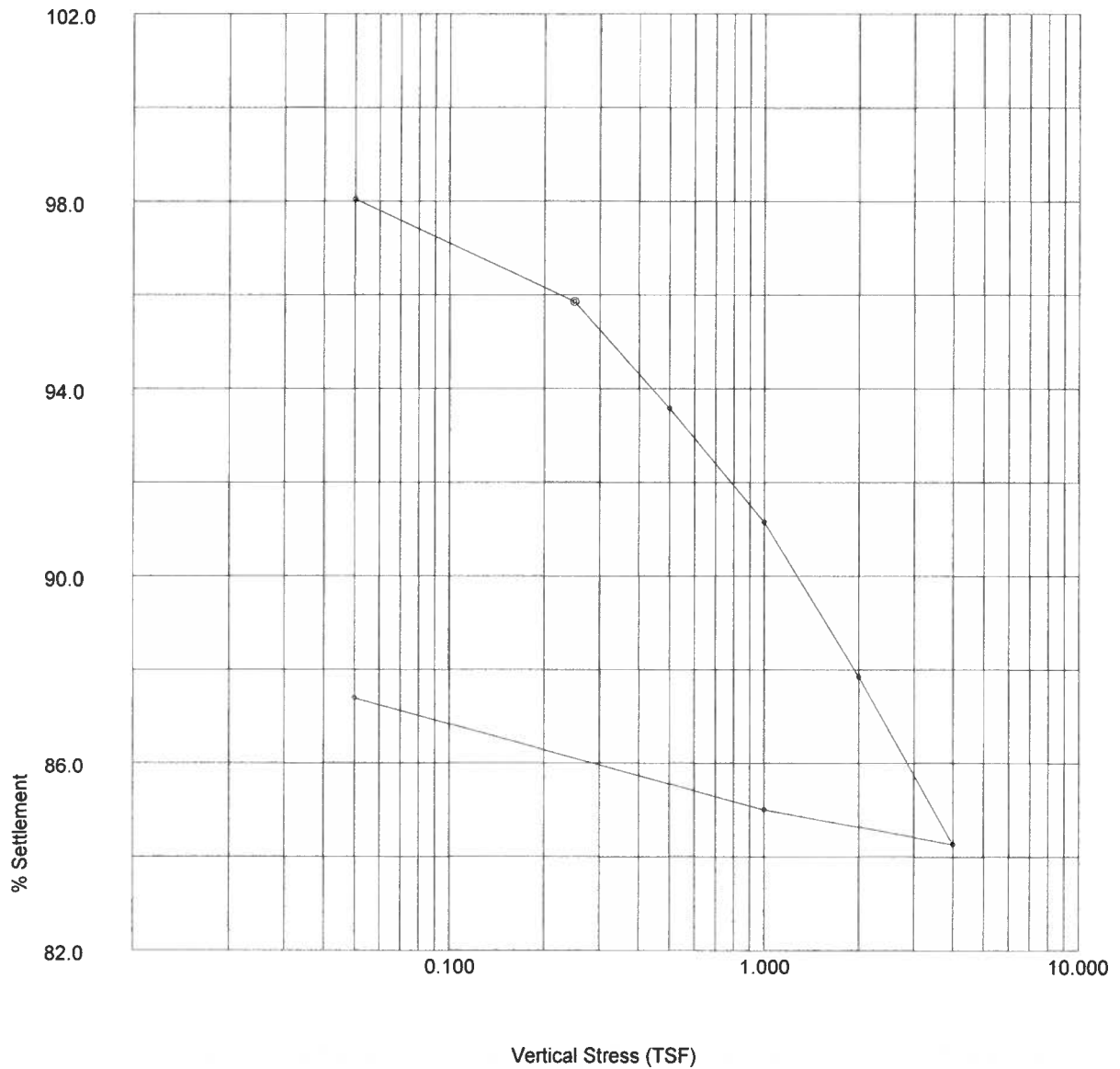
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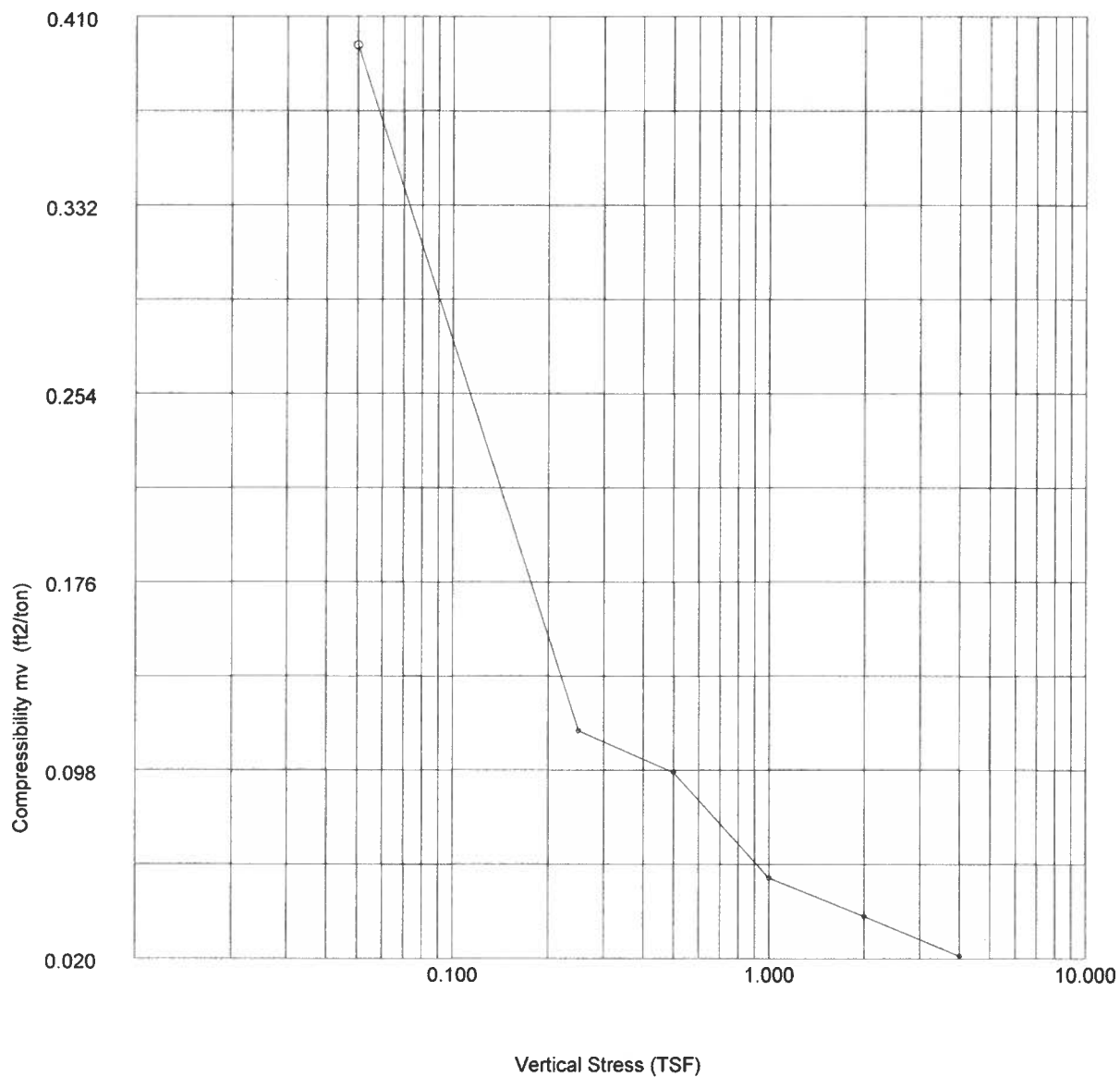
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Oedometer Settlement Tests



	ASTM D2435-96		Test name	Consolidation
			Date of Test:	6-15-11
	Site Reference:	Oregon Inlet	Sample:	ST-3
	Jobfile:	F:\51-11015.JOB	Borehole:	B-53
Operator:		Checked:	Approved:	
				

Oedometer Settlement Tests



ASTM D2435-96

Test name: Consolidation
Date of Test: 6-15-11

Site Reference: Oregon Inlet
Jobfile: F:\51-11015.JOB

Sample: ST-3
Borehole: B-53

Operator:

Checked:

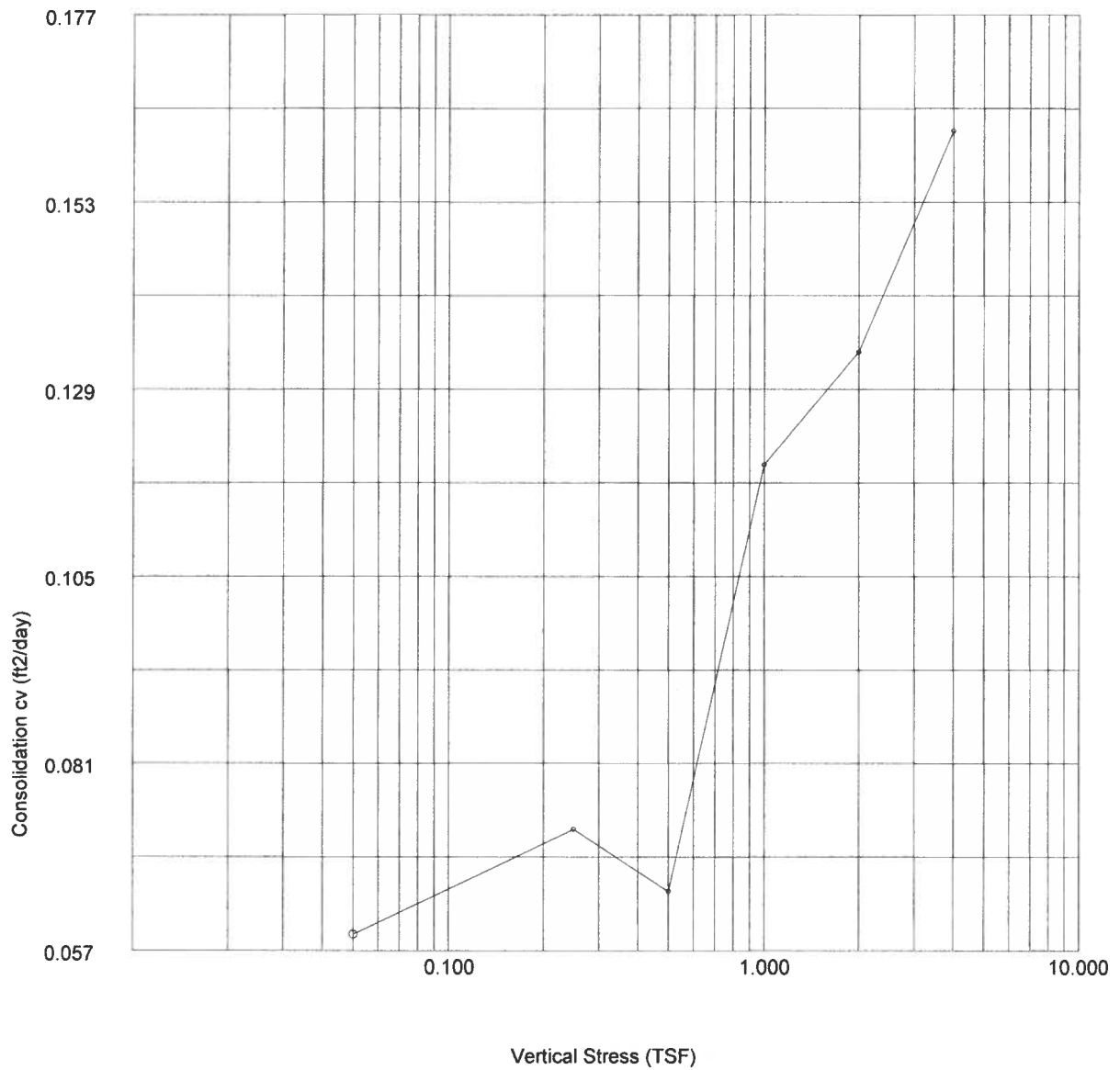
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Oedometer Settlement Tests



ASTM D2435-96

Test name

Consolidation

Date of Test:

6-15-11

Site Reference:

Oregon Inlet

Sample:

ST-3

Jobfile:

F:\51-11015.JOB

Borehole:

B-53

Operator:

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Checked:

[Signature]

Approved:

[Signature]

Oedometer Settlement Tests

Stress (TSF)	Initial Temp. oC	Settlement Total (in)	Cal Corr. (in)	Final Temp. oC	Voids Ratio e_f	t_{50} (mins)	Secondary Compr C_{sec}	c_v (ft ² /day)	m_v (ft ² /ton)
0.050	20.0	0.0195	0.0	20.0	0.9215	8.277	0.0041	0.059	0.398
0.250	20.0	0.0414	0.0	20.0	0.8785	6.465	0.0044	0.073	0.114
0.500	20.0	0.0641	0.0	20.0	0.8340	6.930	0.0032	0.065	0.097
1.000	20.0	0.0884	0.0	20.0	0.7863	3.568	0.0055	0.119	0.053
2.000	20.0	0.1214	0.0	20.0	0.7216	2.987	0.0055	0.134	0.038
4.000	20.0	0.1572	0.0	20.0	0.6514	2.280	0.0046	0.162	0.021
1.000	20.0	0.1498	0.0	20.0	0.6659				0.003
0.050	20.0	0.1260	0.0	20.0	0.7126				0.029



ASTM D2435-96

Test name Consolidation
Date of Test: 6-15-11

Site Reference: Oregon Inlet
Jobfile: F:\51-11015.JOB

Sample: ST-3
Borehole: B-53

Operator:

Checked:

Approved:

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Oedometer Settlement Tests

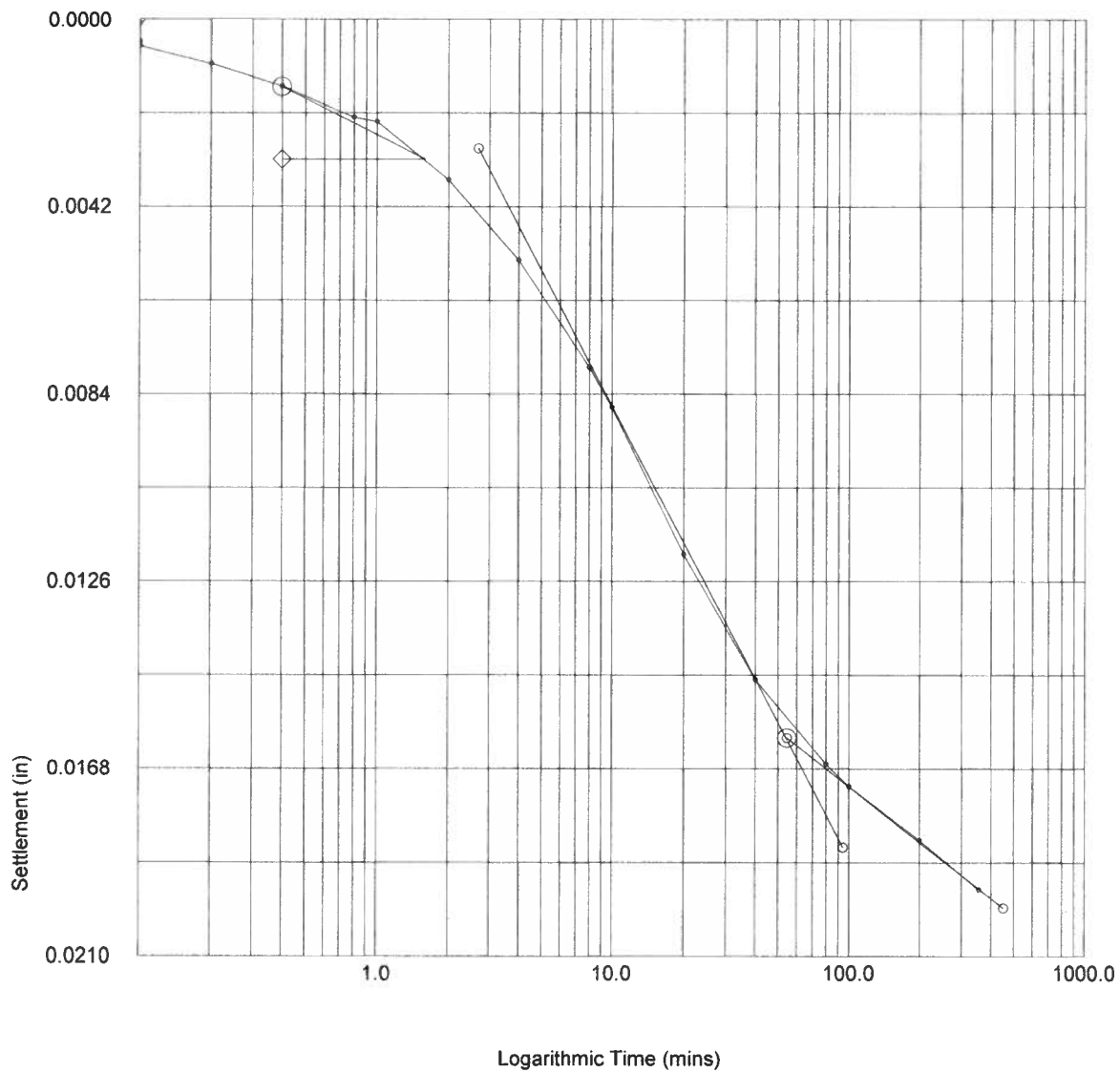
No.	Time (mins)	Displacement (divs)	Displacement (in)	Settlement (in)
1	0.000	0	0.0000	0.0000
2	0.017	1	0.0001	0.0001
3	0.033	1	0.0001	0.0001
4	0.050	1	0.0001	0.0001
5	0.067	1	0.0001	0.0001
6	0.083	5	0.0005	0.0005
7	0.100	6	0.0006	0.0006
8	0.200	10	0.0010	0.0010
9	0.400	15	0.0015	0.0015
10	0.800	22	0.0022	0.0022
11	1.000	23	0.0023	0.0023
12	2.000	36	0.0036	0.0036
13	4.000	54	0.0054	0.0054
14	8.000	78	0.0078	0.0078
15	10.000	87	0.0087	0.0087
16	20.000	120	0.0120	0.0120
17	40.000	148	0.0148	0.0148
18	80.000	167	0.0167	0.0167
19	100.000	172	0.0172	0.0172
20	200.000	184	0.0184	0.0184
21	356.133	195	0.0195	0.0195

	ASTM D2435-96		Test name	Consolidation Load: 0.050 (TSF)
			Date of Test:	6-15-11
	Site Reference:	Oregon Inlet	Sample:	ST-3
	Jobfile:	F:\51-11015.JOB	Borehole:	B-53
Operator:		Checked:		Approved: 

Oedometer Settlement Tests

Settlement Stage Results

Vertical Stress (TSF)	0.050
Initial Temp oC	20.0
Correction (in)	0.0
Settlement (in)	0.0195
Voids Ratio e	0.9215
Final Temp oC	0.0
t ₅₀ (mins)	8.28
c _v (ft ² /day)	0.059
m _v (ft ² /ton)	0.398
Sec Compression C _{sec}	0.0041



ASTM D2435-96

Test name Consolidation
Date of Test: 6-15-11

Site Reference: Oregon Inlet
Jobfile: F:\51-11015.JOB

Sample: ST-3
Borehole: B-53

Operator:

Checked:

Approved:

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Oedometer Settlement Tests

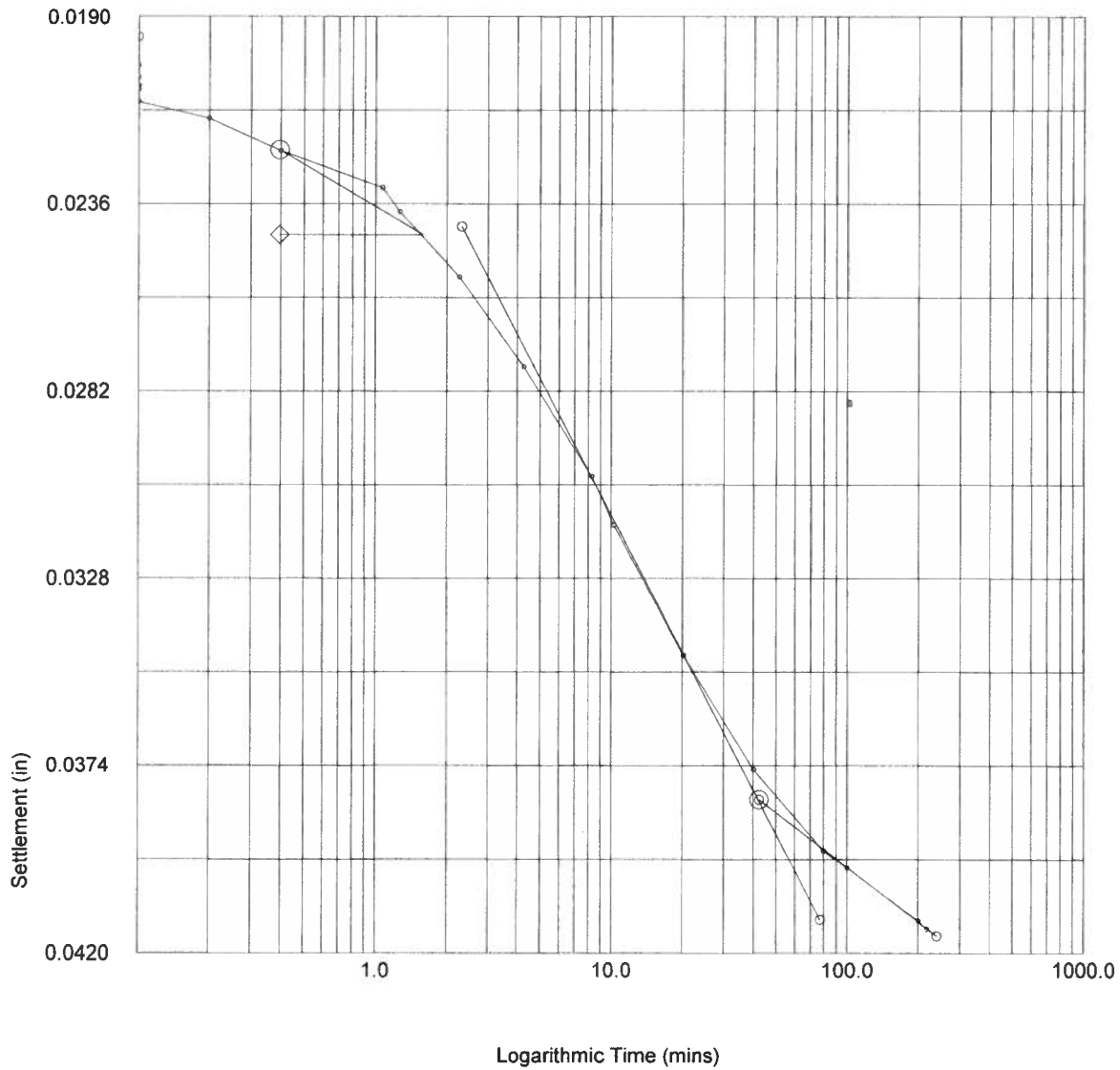
No.	Time (mins)	Displacement (divs)	Displacement (in)	Settlement (in)
1	0.000	195	0.0195	0.0195
2	0.017	202	0.0202	0.0202
3	0.033	205	0.0205	0.0205
4	0.050	207	0.0207	0.0207
5	0.067	207	0.0207	0.0207
6	0.083	208	0.0208	0.0208
7	0.100	211	0.0211	0.0211
8	0.200	215	0.0215	0.0215
9	0.400	223	0.0223	0.0223
10	1.067	232	0.0232	0.0232
11	1.267	238	0.0238	0.0238
12	2.267	254	0.0254	0.0254
13	4.267	276	0.0276	0.0276
14	8.267	303	0.0303	0.0303
15	10.267	315	0.0315	0.0315
16	20.267	347	0.0347	0.0347
17	40.267	375	0.0375	0.0375
18	80.267	395	0.0395	0.0395
19	100.267	399	0.0399	0.0399
20	200.267	412	0.0412	0.0412
21	217.833	414	0.0414	0.0414

	ASTM D2435-96		Test name	Consolidation Load: 0.250 (TSF)
	Site Reference: Oregon Inlet		Date of Test:	6-15-11
	Jobfile: F:\51-11015.JOB		Sample:	ST-3
	Operator: 		Borehole:	B-53
Checked: 		Approved: 		

Oedometer Settlement Tests

Settlement Stage Results

Vertical Stress (TSF)	0.250
Initial Temp oC	20.0
Correction (in)	0.0
Settlement (in)	0.0219
Voids Ratio e	0.8785
Final Temp oC	0.0
t ₅₀ (mins)	6.46
c _v (ft ² /day)	0.073
m _v (ft ² /ton)	0.114
Sec Compression C _{sec}	0.0044



ASTM D2435-96

Test name Consolidation
Date of Test: 6-15-11

Site Reference: Oregon Inlet
Jobfile: F:\51-11015.JOB

Sample: ST-3
Borehole: B-53

Operator:

Checked:

Approved:

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Oedometer Settlement Tests

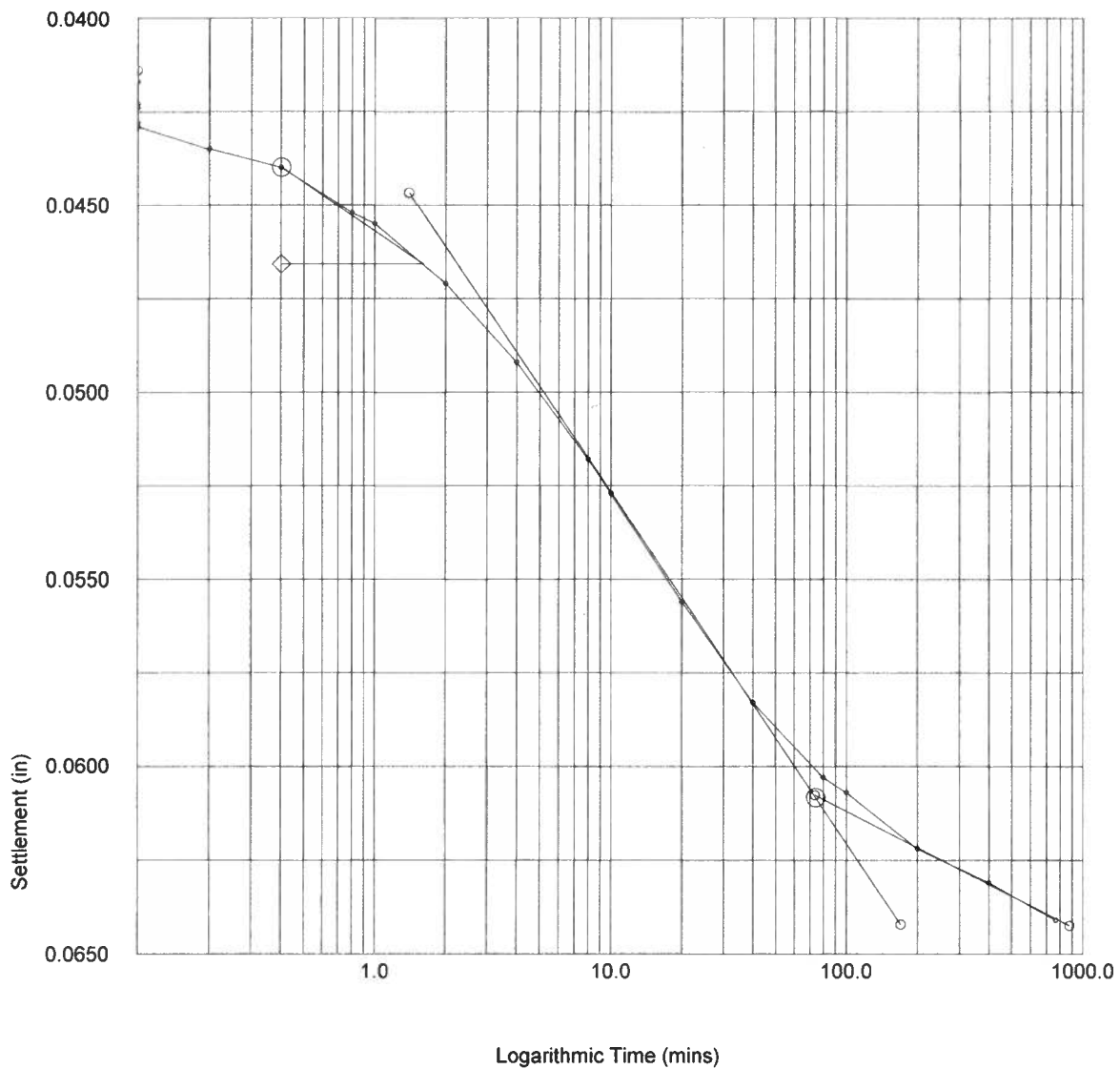
No.	Time (mins)	Displacement (divs)	Displacement (in)	Settlement (in)
1	0.000	414	0.0414	0.0414
2	0.017	417	0.0417	0.0417
3	0.033	417	0.0417	0.0417
4	0.050	423	0.0423	0.0423
5	0.067	424	0.0424	0.0424
6	0.083	428	0.0428	0.0428
7	0.100	429	0.0429	0.0429
8	0.200	435	0.0435	0.0435
9	0.400	440	0.0440	0.0440
10	0.800	452	0.0452	0.0452
11	1.000	455	0.0455	0.0455
12	2.000	471	0.0471	0.0471
13	4.000	492	0.0492	0.0492
14	8.000	518	0.0518	0.0518
15	10.000	527	0.0527	0.0527
16	20.000	556	0.0556	0.0556
17	40.000	583	0.0583	0.0583
18	80.000	603	0.0603	0.0603
19	100.000	607	0.0607	0.0607
20	200.000	622	0.0622	0.0622
21	400.000	631	0.0631	0.0631
22	766.450	641	0.0641	0.0641

	ASTM D2435-96		Test name	Consolidation Load: 0.500 (TSF)
	Site Reference: Oregon Inlet		Date of Test:	6-15-11
	Jobfile: F:\51-11015.JOB		Sample:	ST-3
	Operator: <i>M</i>		Borehole:	B-53
		Checked: <i>M</i>	Approved: <i>awh</i>	

Oedometer Settlement Tests

Settlement Stage Results

Vertical Stress (TSF)	0.500
Initial Temp oC	20.0
Correction (in)	0.0
Settlement (in)	0.0227
Voids Ratio e	0.8340
Final Temp oC	0.0
t_{50} (mins)	6.93
c_v (ft ² /day)	0.065
m_v (ft ² /ton)	0.097
Sec Compression C_{sec}	0.0032



ASTM D2435-96

Test name Consolidation

Date of Test: 6-15-11

Site Reference: Oregon Inlet

Sample: ST-3

Jobfile: F:\51-11015.JOB

Borehole: B-53

Operator:

Checked:

Approved:

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Oedometer Settlement Tests

No.	Time (mins)	Displacement (divs)	Displacement (in)	Settlement (in)
1	0.000	641	0.0641	0.0641
2	0.017	642	0.0642	0.0642
3	0.033	646	0.0646	0.0646
4	0.050	655	0.0655	0.0655
5	0.067	659	0.0659	0.0659
6	0.083	663	0.0663	0.0663
7	0.100	663	0.0663	0.0663
8	0.200	671	0.0671	0.0671
9	0.400	684	0.0684	0.0684
10	0.800	696	0.0696	0.0696
11	1.000	703	0.0703	0.0703
12	2.000	724	0.0724	0.0724
13	4.000	750	0.0750	0.0750
14	8.000	780	0.0780	0.0780
15	10.000	790	0.0790	0.0790
16	20.000	819	0.0819	0.0819
17	40.000	839	0.0839	0.0839
18	80.000	861	0.0861	0.0861
19	100.000	866	0.0866	0.0866
20	200.000	883	0.0883	0.0883
21	208.717	884	0.0884	0.0884



ASTM D2435-96

Test name Consolidation Load: 1.000 (TSF)
Date of Test: 6-15-11

Site Reference: Oregon Inlet
Jobfile: F:\51-11015.JOB

Sample: ST-3
Borehole: B-53

Operator:

Checked:

Approved:

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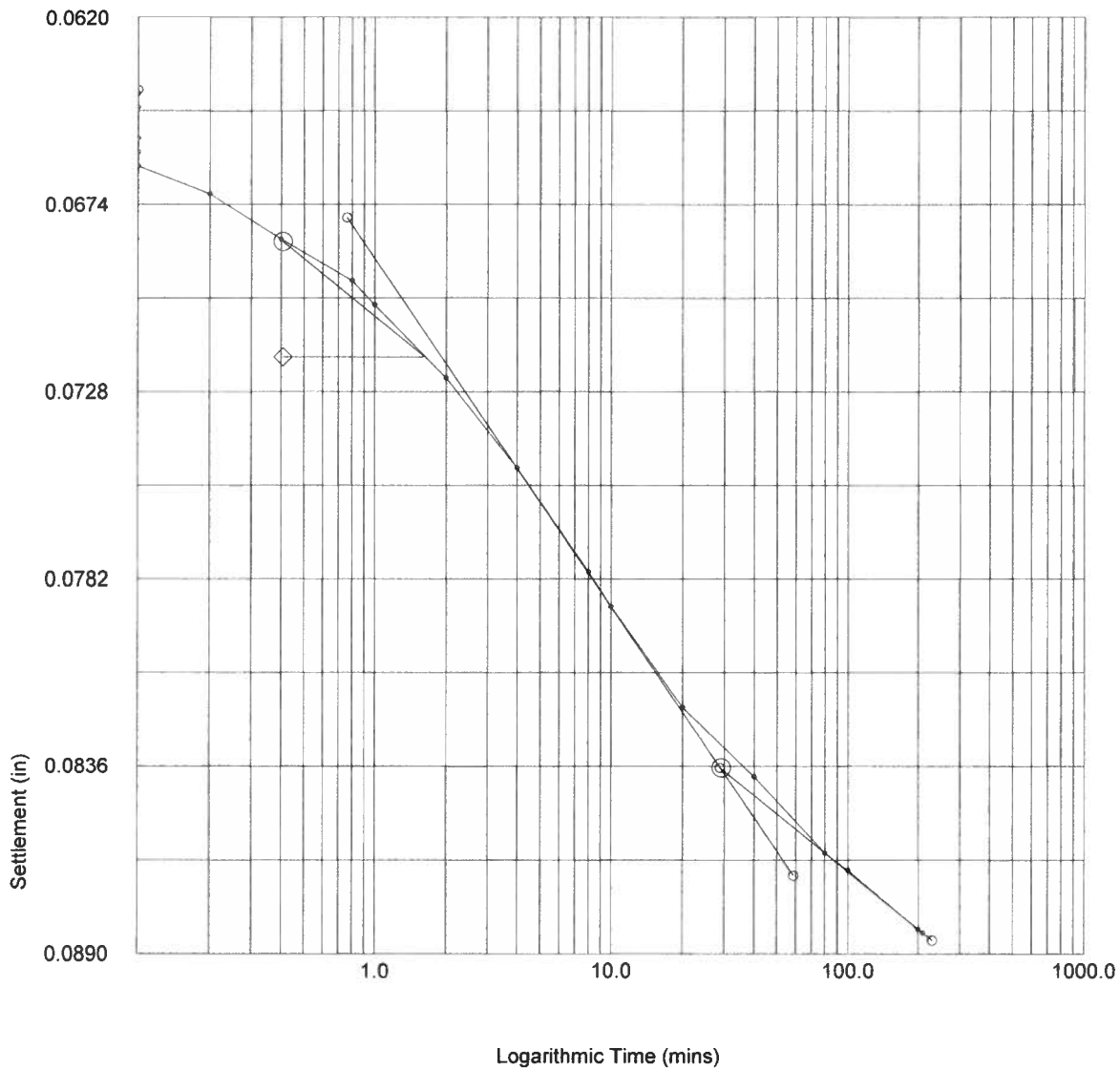
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Oedometer Settlement Tests

Settlement Stage Results

Vertical Stress (TSF)	1.000
Initial Temp oC	20.0
Correction (in)	0.0
Settlement (in)	0.0243
Voids Ratio e	0.7863
Final Temp oC	0.0
t_{50} (mins)	3.57
c_v (ft ² /day)	0.119
m_v (ft ² /ton)	0.053
Sec Compression C_{sec}	0.0055



ASTM D2435-96

Test name Consolidation

Date of Test: 6-15-11

Site Reference: Oregon Inlet
Jobfile: F:\51-11015.JOB

Sample: ST-3
Borehole: B-53

Operator:

Checked:

Approved:

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Oedometer Settlement Tests

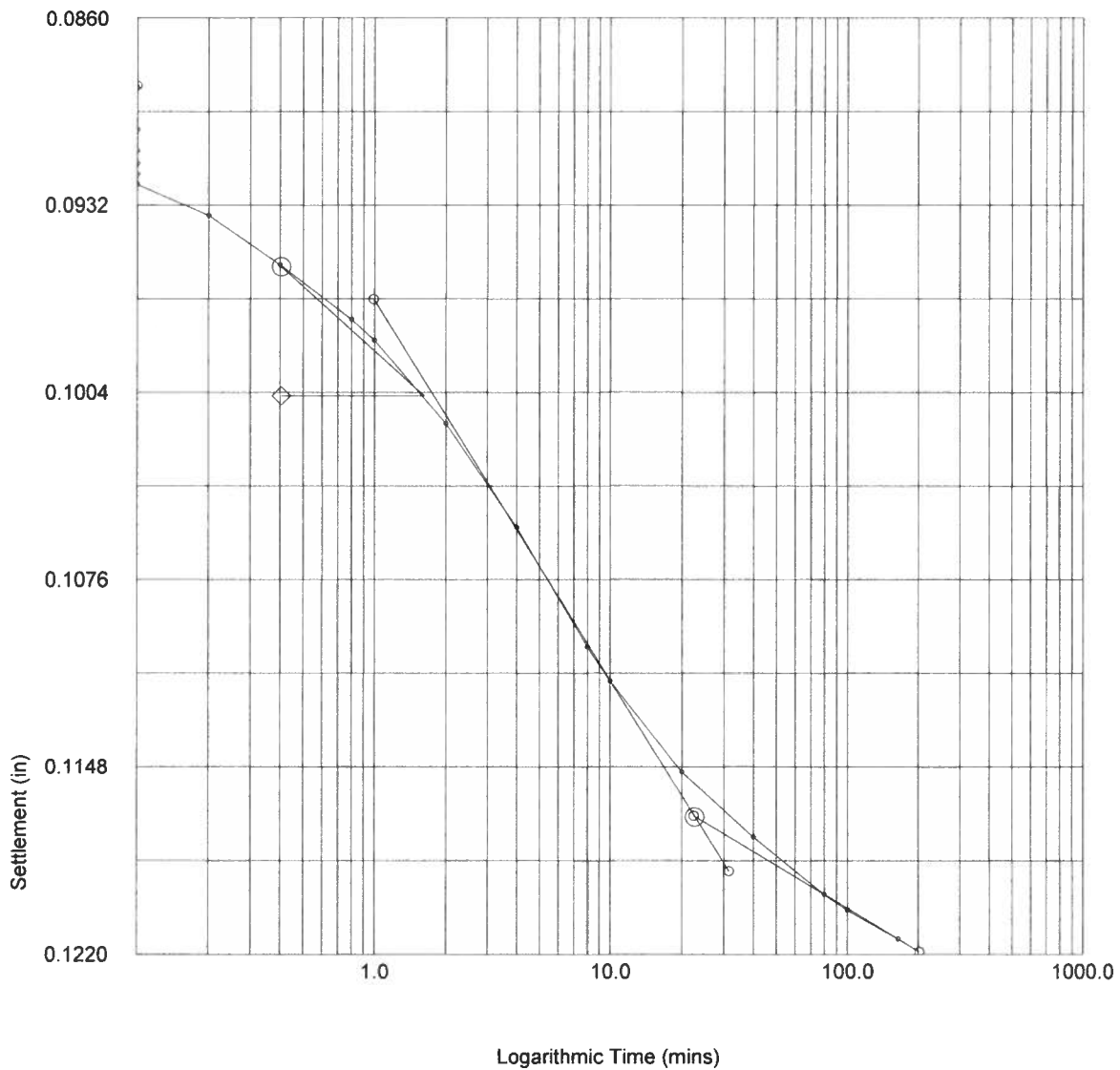
No.	Time (mins)	Displacement (divs)	Displacement (in)	Settlement (in)
1	0.000	886	0.0886	0.0886
2	0.017	887	0.0887	0.0887
3	0.033	903	0.0903	0.0903
4	0.050	911	0.0911	0.0911
5	0.067	916	0.0916	0.0916
6	0.083	920	0.0920	0.0920
7	0.100	924	0.0924	0.0924
8	0.200	936	0.0936	0.0936
9	0.400	955	0.0955	0.0955
10	0.800	976	0.0976	0.0976
11	1.000	984	0.0984	0.0984
12	2.000	1016	0.1016	0.1016
13	4.000	1056	0.1056	0.1056
14	8.000	1102	0.1102	0.1102
15	10.000	1115	0.1115	0.1115
16	20.000	1150	0.1150	0.1150
17	40.000	1175	0.1175	0.1175
18	80.000	1197	0.1197	0.1197
19	100.000	1203	0.1203	0.1203
20	164.467	1214	0.1214	0.1214

	ASTM D2435-96		Test name	Consolidation Load: 2.000 (TSF)
			Date of Test:	6-15-11
	Site Reference:	Oregon Inlet	Sample:	ST-3
	Jobfile:	F:\51-11015.JOB	Borehole:	B-53
Operator: 		Checked: 		Approved: 

Oedometer Settlement Tests

Settlement Stage Results

Vertical Stress (TSF)	2.000
Initial Temp oC	20.0
Correction (in)	0.0
Settlement (in)	0.0328
Voids Ratio e	0.7216
Final Temp oC	0.0
t_{50} (mins)	2.99
c_v (ft ² /day)	0.134
m_v (ft ² /ton)	0.038
Sec Compression C_{sec}	0.0055



ASTM D2435-96

Site Reference: Oregon Inlet
Jobfile: F:\51-11015.JOB

Operator:

Checked:

Test name: Consolidation
Date of Test: 6-15-11

Sample: ST-3
Borehole: B-53

Approved:

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Oedometer Settlement Tests

No.	Time (mins)	Disolacement (divs)	Displacement (in)	Settlement (in)
1	0.000	1215	0.1215	0.1215
2	0.017	1219	0.1219	0.1219
3	0.033	1251	0.1251	0.1251
4	0.050	1255	0.1255	0.1255
5	0.067	1260	0.1260	0.1260
6	0.083	1267	0.1267	0.1267
7	0.100	1270	0.1270	0.1270
8	0.200	1287	0.1287	0.1287
9	0.400	1310	0.1310	0.1310
10	0.800	1337	0.1337	0.1337
11	1.000	1349	0.1349	0.1349
12	2.150	1388	0.1388	0.1388
13	4.150	1432	0.1432	0.1432
14	8.150	1478	0.1478	0.1478
15	10.150	1491	0.1491	0.1491
16	20.150	1523	0.1523	0.1523
17	40.150	1545	0.1545	0.1545
18	80.150	1564	0.1564	0.1564
19	100.150	1567	0.1567	0.1567
20	117.983	1572	0.1572	0.1572



ASTM D2435-96

Test name Consolidation Load: 4.000 (TSF)
Date of Test: 6-15-11

Site Reference: Oregon Inlet
Jobfile: F:\51-11015.JOB

Sample: ST-3
Borehole: B-53

Operator:

Checked:

Approved:

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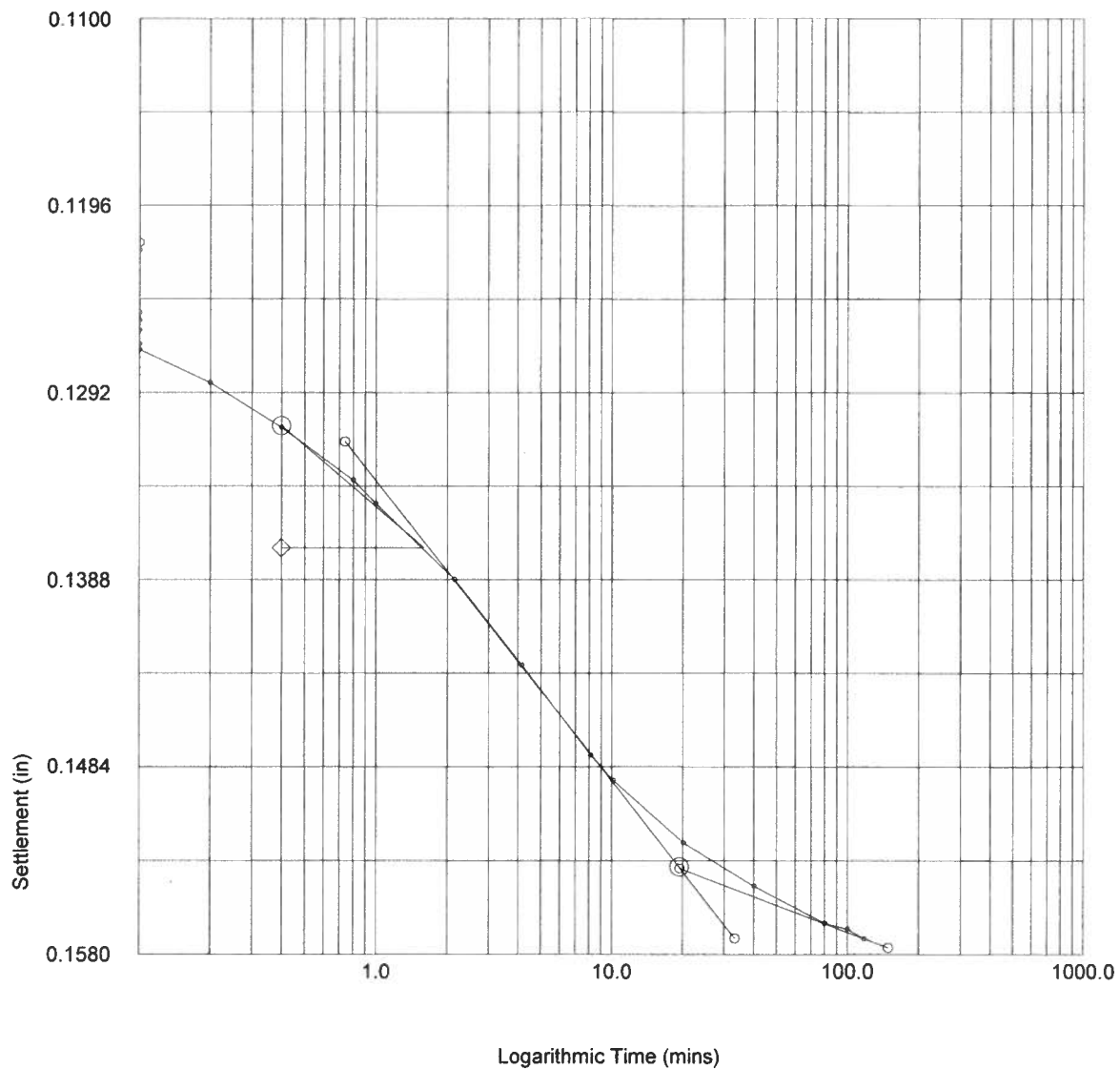
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Oedometer Settlement Tests

Settlement Stage Results

Vertical Stress (TSF)	4.000
Initial Temp oC	20.0
Correction (in)	0.0
Settlement (in)	0.0357
Voids Ratio e	0.6514
Final Temp oC	0.0
t_{50} (mins)	2.28
c_v (ft ² /day)	0.162
m_v (ft ² /ton)	0.021
Sec Compression C_{sec}	0.0046



ASTM D2435-96

Site Reference: Oregon Inlet
Jobfile: F:\51-11015.JOB

Operator:

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Checked:

[Signature]

Test name: Consolidation
Date of Test: 6-15-11

Sample: ST-3
Borehole: B-53

Approved:

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Oedometer Settlement Tests

No.	Time (mins)	Displacement (divs)	Displacement (in)	Settlement (in)
1	0.000	1573	0.1573	0.1573
2	0.017	1559	0.1559	0.1559
3	0.033	1558	0.1558	0.1558
4	0.050	1559	0.1559	0.1559
5	0.067	1543	0.1543	0.1543
6	0.083	1542	0.1542	0.1542
7	0.100	1540	0.1540	0.1540
8	0.200	1535	0.1535	0.1535
9	0.400	1527	0.1527	0.1527
10	0.800	1520	0.1520	0.1520
11	1.000	1519	0.1519	0.1519
12	2.000	1511	0.1511	0.1511
13	4.000	1508	0.1508	0.1508
14	8.000	1503	0.1503	0.1503
15	10.000	1503	0.1503	0.1503
16	20.000	1502	0.1502	0.1502
17	40.000	1500	0.1500	0.1500
18	80.000	1499	0.1499	0.1499
19	100.000	1499	0.1499	0.1499
20	156.700	1498	0.1498	0.1498

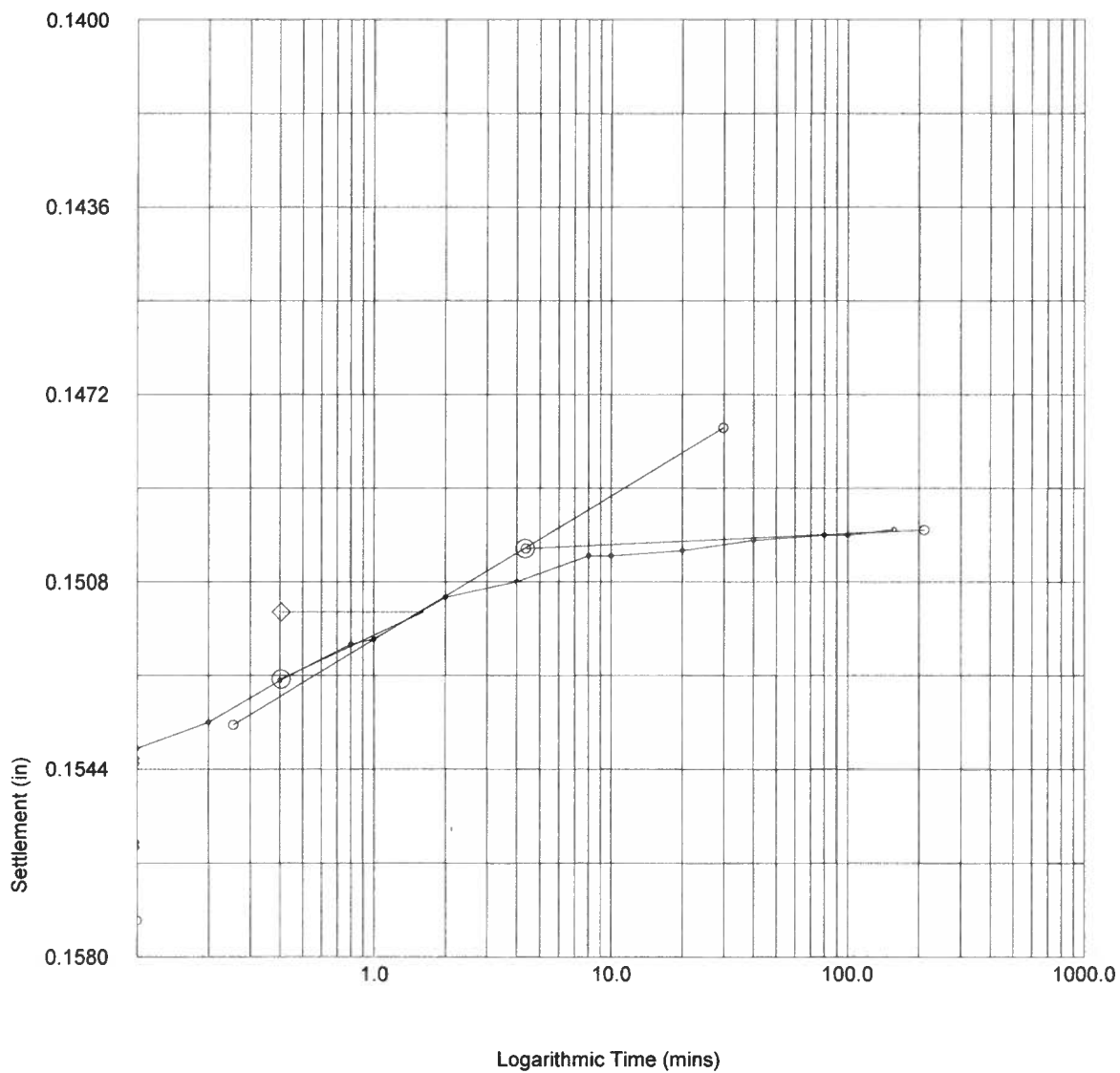
	ASTM D2435-96		Test name	Consolidation Load: 1.000 (TSF)
			Date of Test:	6-15-11
	Site Reference:	Oregon Inlet	Sample:	ST-3
	Jobfile:	F:\51-11015.JOB	Borehole:	B-53
Operator:		Checked:	Approved:	
				

Oedometer Settlement Tests

Settlement Stage Results

Vertical Stress (TSF) 1.000
 Initial Temp oC 20.0
 Correction (in) 0.0
 Settlement (in) 0.0075
 Voids Ratio e 0.6659

Final Temp oC
 t_{50} (mins)
 c_v (ft²/day)
 m_v (ft²/ton)
 Sec Compression C_{sec}



ASTM D2435-96

Test name Consolidation

Date of Test: 6-15-11

Site Reference: Oregon Inlet
 Jobfile: F:\51-11015.JOB

Sample: ST-3
 Borehole: B-53

Operator:

Checked:

Approved:

[Signature]

[Signature]

[Signature]

Oedometer Settlement Tests

No.	Time (mins)	Displacement (divs)	Displacement (in)	Settlement (in)
1	0.000	1498	0.1498	0.1498
2	0.017	1496	0.1496	0.1496
3	0.033	1496	0.1496	0.1496
4	0.050	1487	0.1487	0.1487
5	0.067	1485	0.1485	0.1485
6	0.083	1478	0.1478	0.1478
7	0.100	1472	0.1472	0.1472
8	0.200	1463	0.1463	0.1463
9	0.400	1454	0.1454	0.1454
10	0.800	1439	0.1439	0.1439
11	1.000	1432	0.1432	0.1432
12	2.000	1414	0.1414	0.1414
13	4.000	1388	0.1388	0.1388
14	8.000	1358	0.1358	0.1358
15	10.000	1348	0.1348	0.1348
16	20.000	1319	0.1319	0.1319
17	40.000	1295	0.1295	0.1295
18	80.000	1279	0.1279	0.1279
19	100.000	1277	0.1277	0.1277
20	200.000	1270	0.1270	0.1270
21	400.000	1263	0.1263	0.1263
22	800.000	1260	0.1260	0.1260
23	857.183	1260	0.1260	0.1260

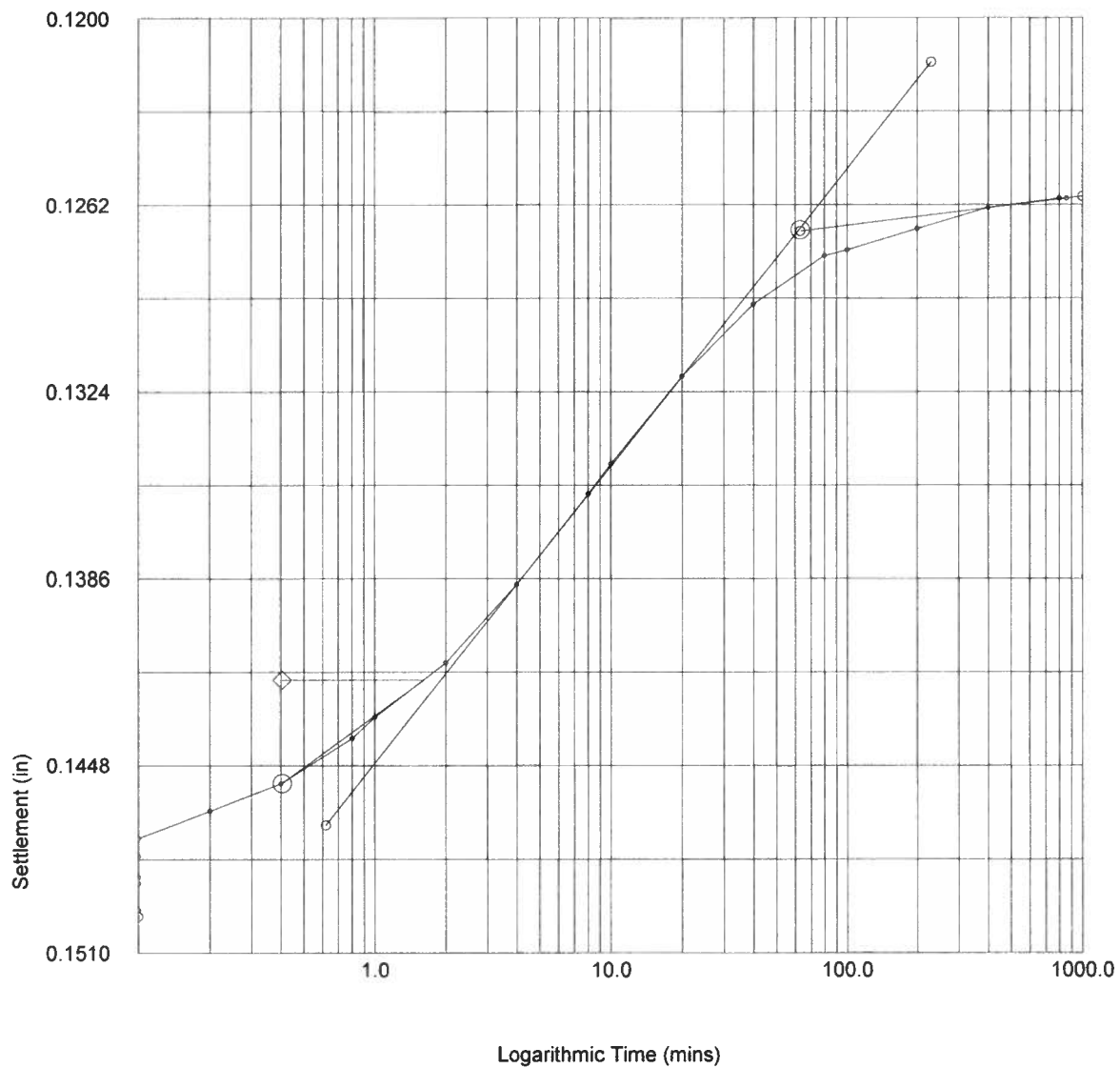
	ASTM D2435-96		Test name	Consolidation Load: 0.050 (TSF)
	Site Reference: Oregon Inlet		Date of Test:	6-15-11
	Jobfile: F:\51-11015.JOB		Sample:	ST-3
	Operator: 		Borehole:	B-53
		Checked: 	Approved: 	

Oedometer Settlement Tests

Settlement Stage Results

Vertical Stress (TSF) 0.050
 Initial Temp oC 20.0
 Correction (in) 0.0
 Settlement (in) 0.0238
 Voids Ratio e 0.7126

Final Temp oC
 t_{50} (mins)
 c_v (ft²/day)
 m_v (ft²/ton)
 Sec Compression C_{sec}



	ASTM D2435-96		Test name	Consolidation
			Date of Test:	6-15-11
	Site Reference:	Oregon Inlet	Sample:	ST-3
	Jobfile:	F:\51-11015.JOB	Borehole:	B-53
Operator:		Checked:	Approved:	
				