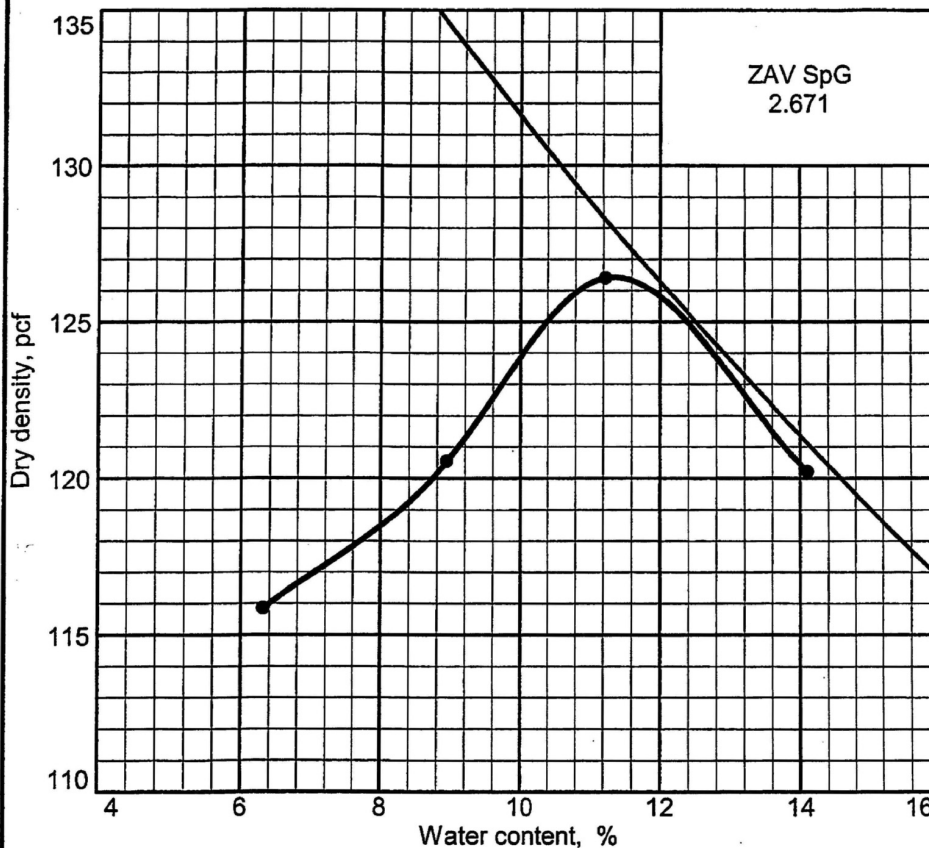


COMPACTION TEST REPORT/ ASTM D-1557-02



Curve No.
TP 2320 B2

Test Specification:
ASTM D 1557-02 Method A Modified

Preparation Method Dry
Hammer Wt. 10 lb.
Hammer Drop 18 in.(mechanical)
Number of Layers five
Blows per Layer 25
Mold Size .03317 cu.ft.

Test Performed on Material
Passing No.4 **Sieve**

NM 9.3 **LL** 41 **PI** 25
Sp.G. (ASTM D 854) 2.671
%>No.4 0.0 **%<No.200** 70.4
USCS CL **AASHTO** A-7-6(15)
Date Sampled 1/19/08
Date Tested 2/28/08
Tested By AWH

TESTING DATA

	1	2	3	4	5	6
WM + WS	6058.9	6181.7	6321.4	6269.7		
WM	4205.9	4205.9	4205.9	4205.9		
WW + T #1	744.50	642.70	846.30	613.90		
WD + T #1	700.70	590.50	761.50	538.90		
TARE #1	6.90	6.80	6.80	7.20		
WW + T #2	N/A	N/A	N/A	N/A		
WD + T #2	N/A	N/A	N/A	N/A		
TARE #2	N/A	N/A	N/A	N/A		
MOISTURE	6.3	8.9	11.2	14.1		
DRY DENSITY	115.8	120.5	126.4	120.2		

TEST RESULTS

Maximum dry density = 126.5 pcf
 Optimum moisture = 11.5 %

Project No. 6468071777 **Client:** Bechtel
Project: Exelon Texas COL (Victoria)

● **Source:** TP-2320 **Sample No.:** Bulk 2 **Elev./Depth:** 5.0-10.0'

MACTEC, Inc.
Raleigh, North Carolina

Material Description

Olive Yellow Sandy Lean CLAY

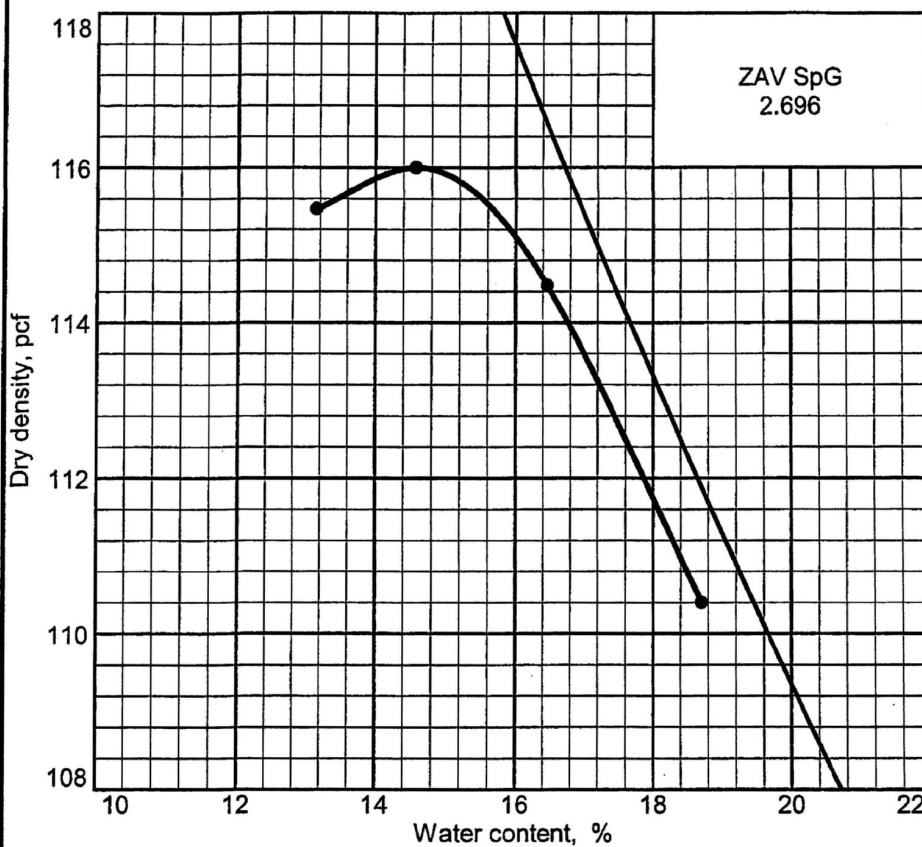
Remarks:

Natural Moisture obtained from Jar Sample S-4,10'

Checked by: LBJ
Title: LAB MANAGER

DSC
 4-2-08
 Figure NA

COMPACTION TEST REPORT/ ASTM D-1557-02



Curve No.
TP 2321 B1

Test Specification:
ASTM D 1557-02 Method A Modified

Preparation Method Dry
Hammer Wt. 10 lb.
Hammer Drop 18 in.(mechanical)
Number of Layers five
Blows per Layer 25
Mold Size .03317 cu.ft.

Test Performed on Material
Passing No.4 **Sieve**

NM 15.3 **LL** 51 **PI** 31

Sp.G. (ASTM D 854) 2.696

%>No.4 0.0 **%<No.200** 72.0

USCS CH **AASHTO** A-7-6(21)

Date Sampled 1/30/08

Date Tested 2/28/08

Tested By AWH

TESTING DATA

	1	2	3	4	5	6
WM + WS	6171.6	6205.7	6211.9	6177.7		
WM	4205.9	4205.9	4205.9	4205.9		
WW + T #1	806.30	649.90	698.50	623.70		
WD + T #1	713.40	568.10	600.70	526.50		
TARE #1	6.90	7.10	6.70	6.90		
WW + T #2	N/A	N/A	N/A	N/A		
WD + T #2	N/A	N/A	N/A	N/A		
TARE #2	N/A	N/A	N/A	N/A		
MOISTURE	13.1	14.6	16.5	18.7		
DRY DENSITY	115.5	116.0	114.5	110.4		

TEST RESULTS

Maximum dry density = 116.0 pcf

Optimum moisture = 14.5 %

Project No. 6468071777 **Client:** Bechtel

Project: Exelon Texas COL (Victoria)

● **Source:** TP-2321

Sample No.: Bulk 1

Elev./Depth: 4.0-5.0'

MACTEC, Inc.

Raleigh, North Carolina

Material Description

Dark Gray Fat CLAY with sand

Remarks:

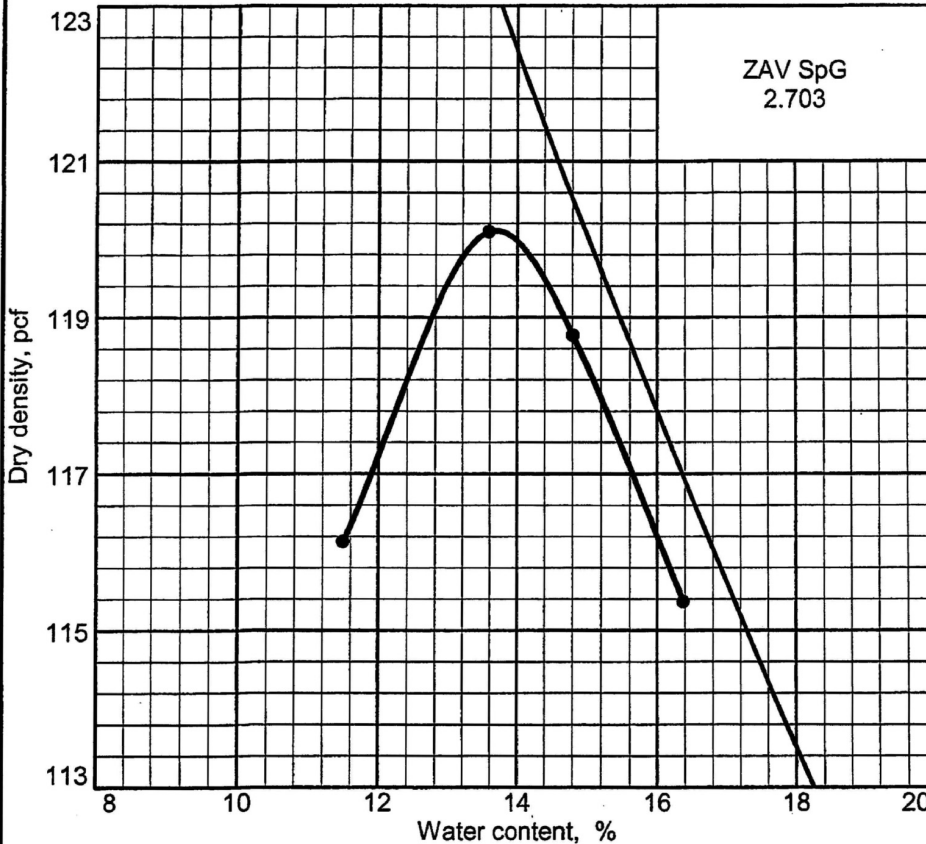
Natural Moisture obtained from Jar Sample S-2,4'

Checked by: LBJ

Title: LAB MANAGER

Figure **NA**

COMPACTION TEST REPORT/ ASTM D-1557-02



Curve No.
TP 2321 B2

Test Specification:
ASTM D 1557-02 Method A Modified

Preparation Method Dry
Hammer Wt. 10 lb.
Hammer Drop 18 in. (mechanical)
Number of Layers five
Blows per Layer 25
Mold Size .03317 cu.ft.

Test Performed on Material
Passing No.4 Sieve

NM 16.0 LL 49 PI 30

Sp.G. (ASTM D 854) 2.703

%>No.4 0.0 %<No.200 81.0

USCS CL AASHTO A-7-6(24)

Date Sampled 1/30/08

Date Tested 2/27/08

Tested By AWH

TESTING DATA

	1	2	3	4	5	6
WM + WS	6154.1	6258.3	6257.5	6225.9		
WM	4205.9	4205.9	4205.9	4205.9		
WW + T #1	662.10	885.40	516.20	582.40		
WD + T #1	594.80	780.60	450.50	501.40		
TARE #1	9.40	9.20	6.90	6.80		
WW + T #2	N/A	N/A	N/A	N/A		
WD + T #2	N/A	N/A	N/A	N/A		
TARE #2	N/A	N/A	N/A	N/A		
MOISTURE	11.5	13.6	14.8	16.4		
DRY DENSITY	116.1	120.1	118.8	115.4		

TEST RESULTS

Maximum dry density = 120.0 pcf

Optimum moisture = 13.5 %

Project No. 6468071777 Client: Bechtel

Project: Exelon Texas COL (Victoria)

● Source: TP-2321

Sample No.: Bulk 2

Elev./Depth: 6.5-10.0

MACTEC, Inc.

Raleigh, North Carolina

Material Description

Yellow Lean CLAY with sand

Remarks:

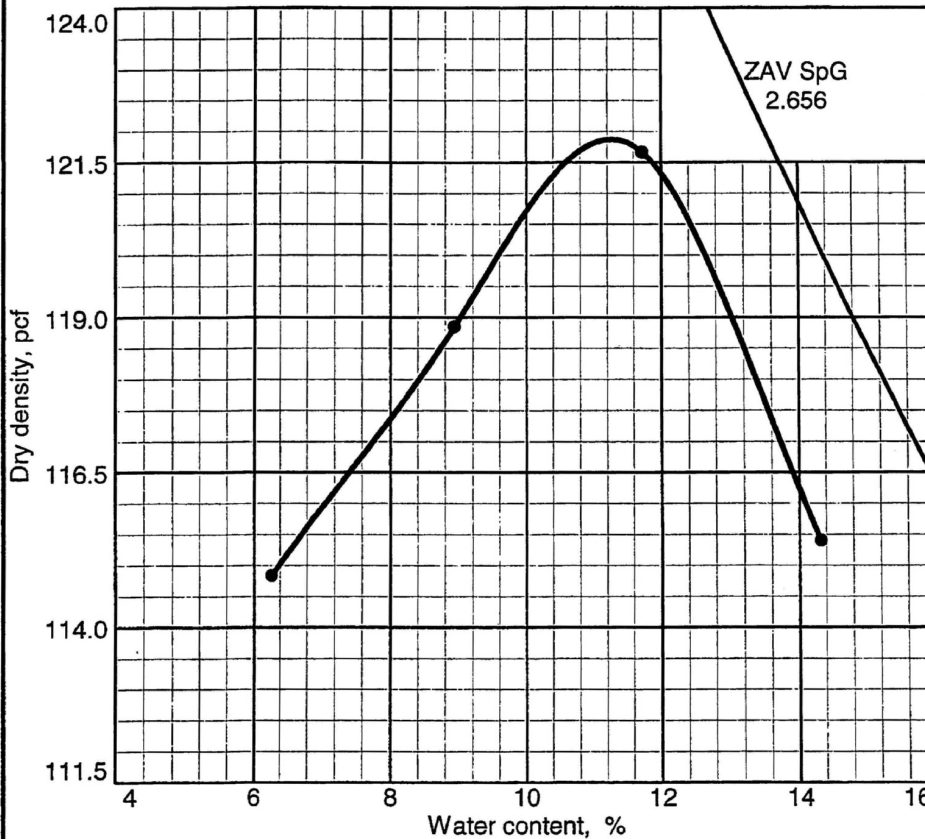
Natural Moisture obtained from Jar Sample S-3,7'

Checked by: LBJ

Title: LAB MANAGER

Figure NA

COMPACTION TEST REPORT/ ASTM D-1557-02e1



Curve No.
TP 2332 B2

Test Specification:

ASTM D 1557-02e1 Method A Modified

Preparation Method Dry
 Hammer Wt. 10 lb.
 Hammer Drop 18 in.
 Number of Layers five
 Blows per Layer 25
 Mold Size .03333 cu.ft.

Test Performed on Material
 Passing No.4 Sieve

NM 10.9 LL ND PI ND

Sp.G. (ASTM D 854) 2.656

%>No.4 0.0 %<No.200 20.0

USCS SM AASHTO ND

Date Sampled 1/22/08

Date Tested 2/27/08

Tested By AWH

TESTING DATA

	1	2	3	4	5	6
WM + WS	6042.0	6153.7	6251.0	6190.9		
WM	4205.9	4205.9	4205.9	4205.9		
WW + T #1	518.40	768.40	763.40	693.10		
WD + T #1	488.20	706.00	684.00	607.10		
TARE #1	6.70	7.00	6.70	6.70		
WW + T #2						
WD + T #2						
TARE #2						
MOISTURE	6.3	8.9	11.7	14.3		
DRY DENSITY	114.8	118.8	121.7	115.4		

TEST RESULTS

Maximum dry density = 122 pcf

Optimum moisture = 11 %

Project No. 6468071777 Client: Bechtel

Project: Exelon Texas COL (Victoria)

● Source: TP-2332 Sample No.: Bulk 2 Elev./Depth: 3.0-10.0

MACTEC, Inc.

Raleigh, North Carolina

Material Description

Very Pale Brown Silty SAND (Visual)

Remarks:

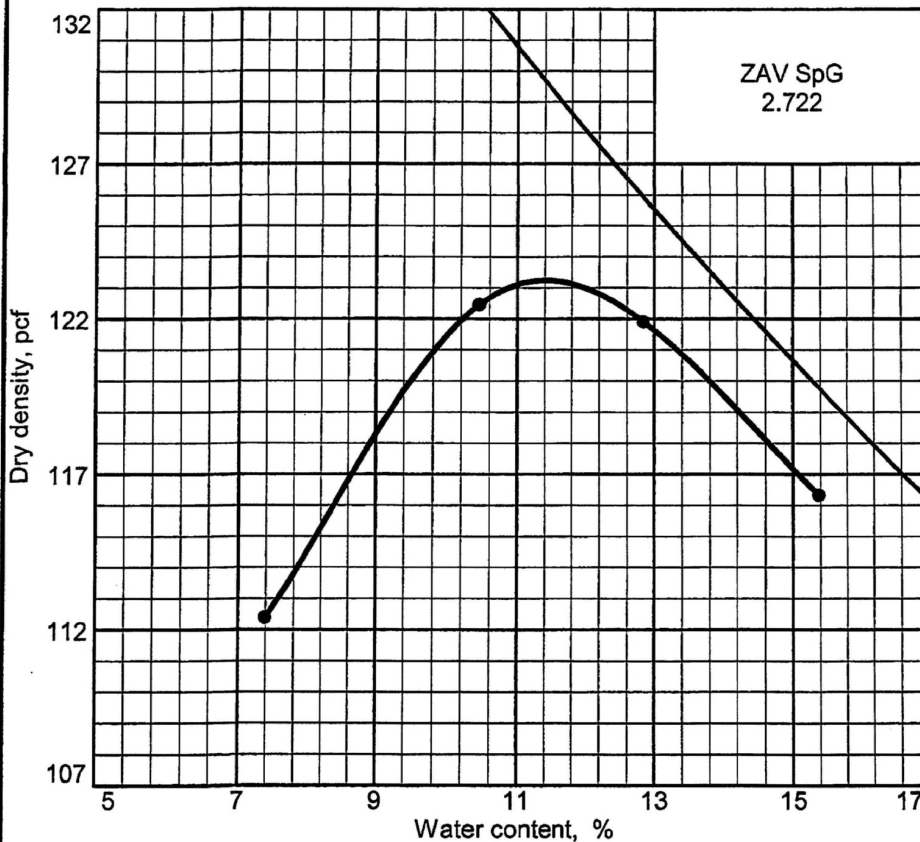
ND = Not Determined
 Natural Moisture was obtained from Jar
 Sample S-3,7'

Checked by: LBJ

Title: LAB MANAGER **ZHU**

Figure **4-12-08**
NK

COMPACTION TEST REPORT/ ASTM D-1557-02



Curve No.
TP 2334 B1

Test Specification:

ASTM D 1557-02 Method A Modified

Preparation Method Dry
 Hammer Wt. 10 lb.
 Hammer Drop 18 in.(mechanical)
 Number of Layers five
 Blows per Layer 25
 Mold Size .03317 cu.ft.

Test Performed on Material

Passing No.4 Sieve

NM 14.8 LL 44 PI 31

Sp.G. (ASTM D 854) 2.722

%>No.4 0.0 %<No.200 68.0

USCS CL AASHTO A-7-6(18)

Date Sampled 1/20/08

Date Tested 2/27/08

Tested By AWH

TESTING DATA

	1	2	3	4	5	6
WM + WS	6021.8	6240.7	6275.6	6225.2		
WM	4205.9	4205.9	4205.9	4205.9		
WW + T #1	578.90	606.80	827.30	701.20		
WD + T #1	539.50	550.00	733.90	608.60		
TARE #1	6.60	6.60	6.60	6.40		
WW + T #2	N/A	N/A	N/A	N/A		
WD + T #2	N/A	N/A	N/A	N/A		
TARE #2	N/A	N/A	N/A	N/A		
MOISTURE	7.4	10.5	12.8	15.4		
DRY DENSITY	112.4	122.4	121.9	116.3		

TEST RESULTS

Maximum dry density = 123.0 pcf

Optimum moisture = 11.5 %

Project No. 6468071777 Client: Bechtel

Project: Exelon Texas COL (Victoria)

● Source: TP-2334

Sample No.: Bulk 1

Elev./Depth: 2.0-5.0

MACTEC, Inc.

Raleigh, North Carolina

Material Description

Light Brownish Gray Sandy Lean CLAY

Remarks:

Natural Moisture obtained from Jar Sample S-2, 2-5'

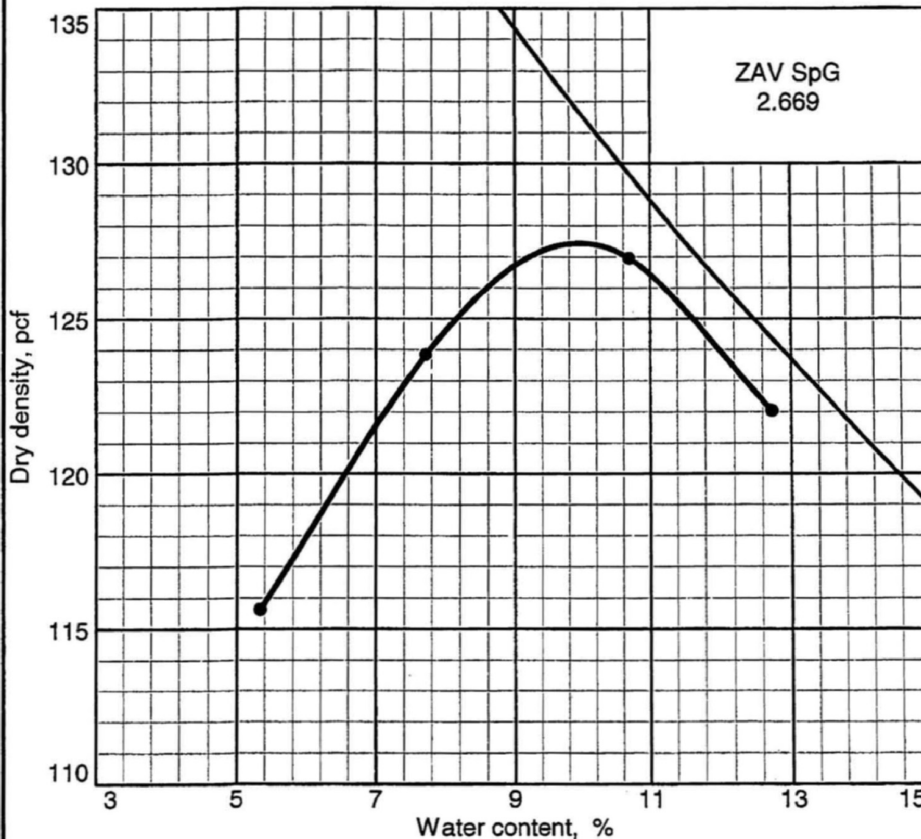
Checked by: LBJ

Title: LAB MANAGER

Figure

DSC
4-2-08
MA

COMPACTION TEST REPORT/ ASTM D-1557-02



Curve No.
TP 2334 B2

Test Specification:
ASTM D 1557-02 Method A Modified

Preparation Method Dry
Hammer Wt. 10 lb.
Hammer Drop 18 in.(mechanical)
Number of Layers five
Blows per Layer 25
Mold Size .03317 cu.ft.

Test Performed on Material
Passing No.4 Sieve

NM 15.2 LL 31 PI 19

Sp.G. (ASTM D 854) 2.669

%>No.4 0.0 %<No.200 47.4

USCS SC AASHTO A-6(5)

Date Sampled 1/20/08

Date Tested 2/27/08

Tested By AWH

TESTING DATA

	1	2	3	4	5	6
WM + WS	6038.3	6212.7	6320.0	6275.7		
WM	4205.9	4205.9	4205.9	4205.9		
WW + T #1	686.00	533.20	855.70	864.50		
WD + T #1	651.60	495.50	773.70	767.60		
TARE #1	6.50	6.80	6.50	6.60		
WW + T #2	N/A	N/A	N/A	N/A		
WD + T #2	N/A	N/A	N/A	N/A		
TARE #2	N/A	N/A	N/A	N/A		
MOISTURE	5.3	7.7	10.7	12.7		
DRY DENSITY	115.6	123.8	126.9	122.0		

TEST RESULTS

Maximum dry density = 127.5 pcf

Optimum moisture = 10.0 %

Project No. 6468071777 Client: Bechtel

Project: Exelon Texas COL (Victoria)

Source: TP-2334

Sample No.: Bulk 2

Elev./Depth: 5.0-10.0

MACTEC, Inc.

Raleigh, North Carolina

Material Description

Light Pale Brown Clayey SAND

Remarks:

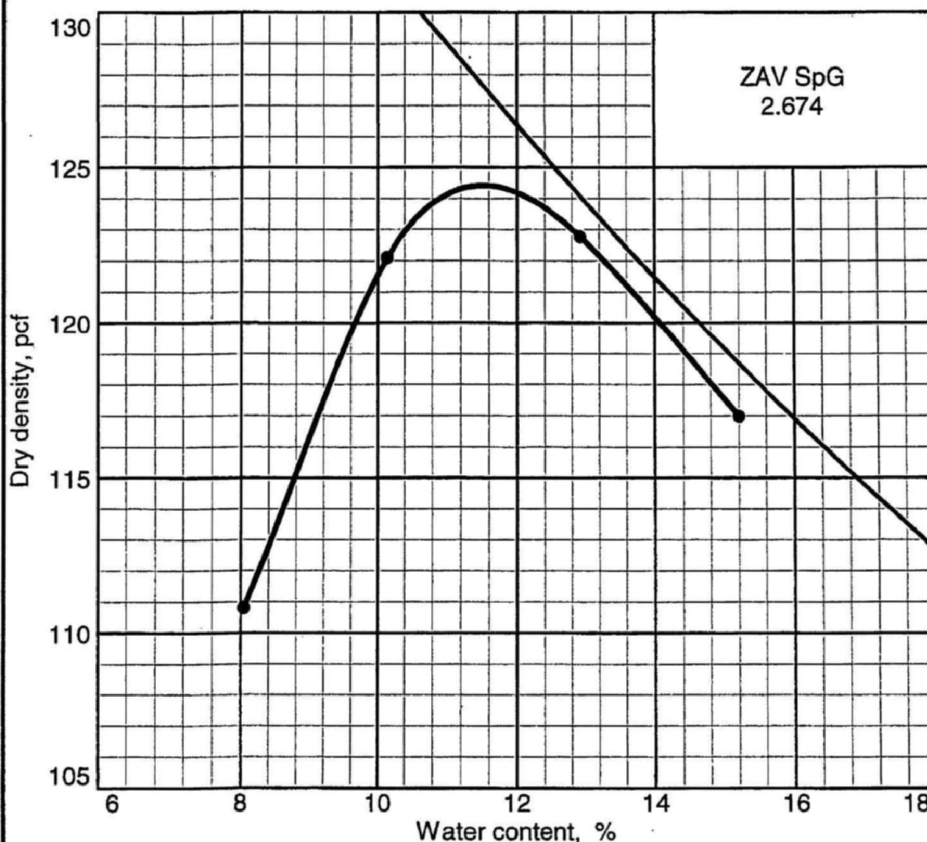
Natural Moisture was obtained from Jar Sample S-3,7'

Checked by: LBJ

Title: LAB MANAGER

DSC
4-2-08
Figure NA

COMPACTION TEST REPORT/ ASTM D-1557-02



Curve No.
TP 2335 B2

Test Specification:

ASTM D 1557-02 Method A Modified

Preparation Method Dry
Hammer Wt. 10 lb.
Hammer Drop 18 in.(mechanical)
Number of Layers five
Blows per Layer 25
Mold Size .03317 cu.ft.

Test Performed on Material
Passing No.4 Sieve

NM 11.2 LL 37 PI 23

Sp.G. (ASTM D 854) 2.674

%>No.4 0.0 %<No.200 53.6

USCS CL AASHTO A-6(9)

Date Sampled 1/20/08

Date Tested 2/26/08

Tested By AWH

TESTING DATA

	1	2	3	4	5	6
WM + WS	6007.3	6229.1	6291.6	6233.5		
WM	4205.9	4205.9	4205.9	4205.9		
WW + T #1	558.70	670.40	554.70	530.40		
WD + T #1	517.60	609.30	492.00	461.30		
TARE #1	6.80	6.80	6.80	6.80		
WW + T #2	N/A	N/A	N/A	N/A		
WD + T #2	N/A	N/A	N/A	N/A		
TARE #2	N/A	N/A	N/A	N/A		
MOISTURE	8.0	10.1	12.9	15.2		
DRY DENSITY	110.8	122.1	122.8	117.0		

TEST RESULTS

Maximum dry density = 124.5 pcf

Optimum moisture = 11.5 %

Project No. 6468071777 Client: Bechtel

Project: Exelon Texas COL (Victoria)

● Source: TP-2335

Sample No.: Bulk 2

Elev./Depth: 4.0-8.0

MACTEC, Inc.

Raleigh, North Carolina

Material Description

Pale Yellow Sandy Lean CLAY

Remarks:

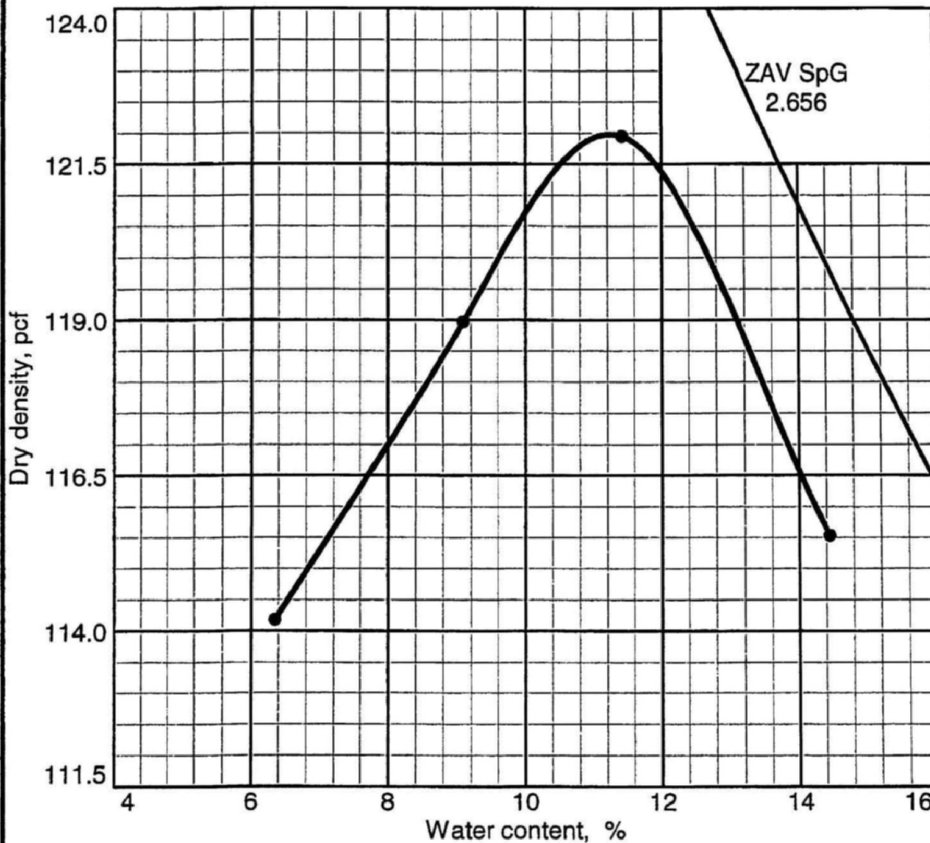
Natural Moisture was obtained from Jar Sample S-3,6'

Checked by: LBJ

Title: LAB MANAGER

DSC
4-2-08
Figure NA

COMPACTION TEST REPORT/ ASTM D-1557-02



Curve No.
TP 2335 B3

Test Specification:

ASTM D 1557-02 Method A Modified

Preparation Method Dry
 Hammer Wt. 10 lb.
 Hammer Drop 18 in.(mechanical)
 Number of Layers five
 Blows per Layer 25
 Mold Size .03317 cu.ft.

Test Performed on Material

Passing No.4 Sieve

NM 7.3 LL ND PI ND

Sp.G. (ASTM D 854) 2.656

%>No.4 0.0 %<No.200 24.8

USCS SM AASHTO

Date Sampled 1/20/08

Date Tested 2/27/08

Tested By AWH

TESTING DATA

	1	2	3	4	5	6
WM + WS	6032.8	6158.5	6250.3	6195.3		
WM	4205.9	4205.9	4205.9	4205.9		
WW + T #1	740.90	936.10	837.90	842.60		
WD + T #1	697.10	858.70	752.70	737.10		
TARE #1	6.90	7.00	6.80	7.00		
WW + T #2	N/A	N/A	N/A	N/A		
WD + T #2	N/A	N/A	N/A	N/A		
TARE #2	N/A	N/A	N/A	N/A		
MOISTURE	6.3	9.1	11.4	14.5		
DRY DENSITY	114.2	119.0	122.0	115.5		

TEST RESULTS

Maximum dry density = 122.0 pcf

Optimum moisture = 11.0 %

Project No. 6468071777 Client: Bechtel

Project: Exelon Texas COL (Victoria)

● Source: TP-2335

Sample No.: Bulk 3

Elev./Depth: 8.0-10.0

MACTEC, Inc.

Raleigh, North Carolina

Material Description

Pale Yellow Silty SAND(Visual)

Remarks:

Natural Moisture was obtained from Jar Sample S-4,10'

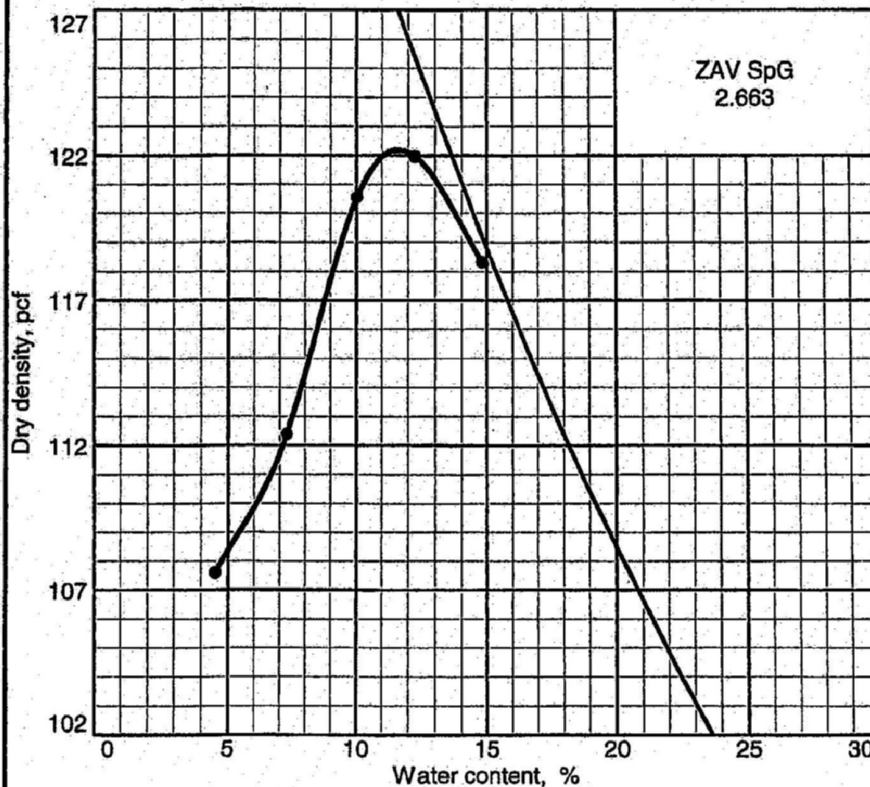
Checked by: LBJ

Title: LAB MANAGER

DSC
4-2-08

Figure NA

COMPACTION TEST REPORT/ ASTM D-1557-02



Curve No.
TP 2337 B1

Test Specification:
ASTM D 1557-02 Method A Modified

Preparation Method Dry
Hammer Wt. 10 lb.
Hammer Drop 18 in. (mechanical)
Number of Layers five
Blows per Layer 25
Mold Size .03317 cu.ft.

Test Performed on Material
Passing No. 4 **Sieve**
NM 18.7 **LL** ND **PI** ND
Sp.G. (ASTM D 854) 2.663
%>No. 4 0.0 **%<No. 200** 61.7
USCS CL **AASHTO** ND
Date Sampled 1/20/08
Date Tested 2/27/08
Tested By AWH

TESTING DATA

	1	2	3	4	5	6
WM + WS	5898.3	6019.9	6201.7	6265.6	6249.8	
WM	4205.9	4205.9	4205.9	4205.9	4205.9	
WW + T #1	580.70	577.00	531.10	688.00	638.80	
WD + T #1	555.80	538.30	483.30	613.70	557.40	
TARE #1	6.60	6.80	6.60	6.80	8.30	
WW + T #2	N/A	N/A	N/A	N/A	N/A	
WD + T #2	N/A	N/A	N/A	N/A	N/A	
TARE #2	N/A	N/A	N/A	N/A	N/A	
MOISTURE	4.5	7.3	10.0	12.2	14.8	
DRY DENSITY	107.6	112.4	120.6	122.0	118.3	

TEST RESULTS

Maximum dry density = 122.0 pcf
 Optimum moisture = 11.5 %

Project No. 6468071777 **Client:** Bechtel
Project: Exelon Texas COL (Victoria)

• **Source:** TP-2337 **Sample No.:** Bulk 1 **Elev./Depth:** 4.0-5.0

MACTEC, Inc.

Raleigh, North Carolina

Material Description

Gray Sandy Lean CLAY (Visual)

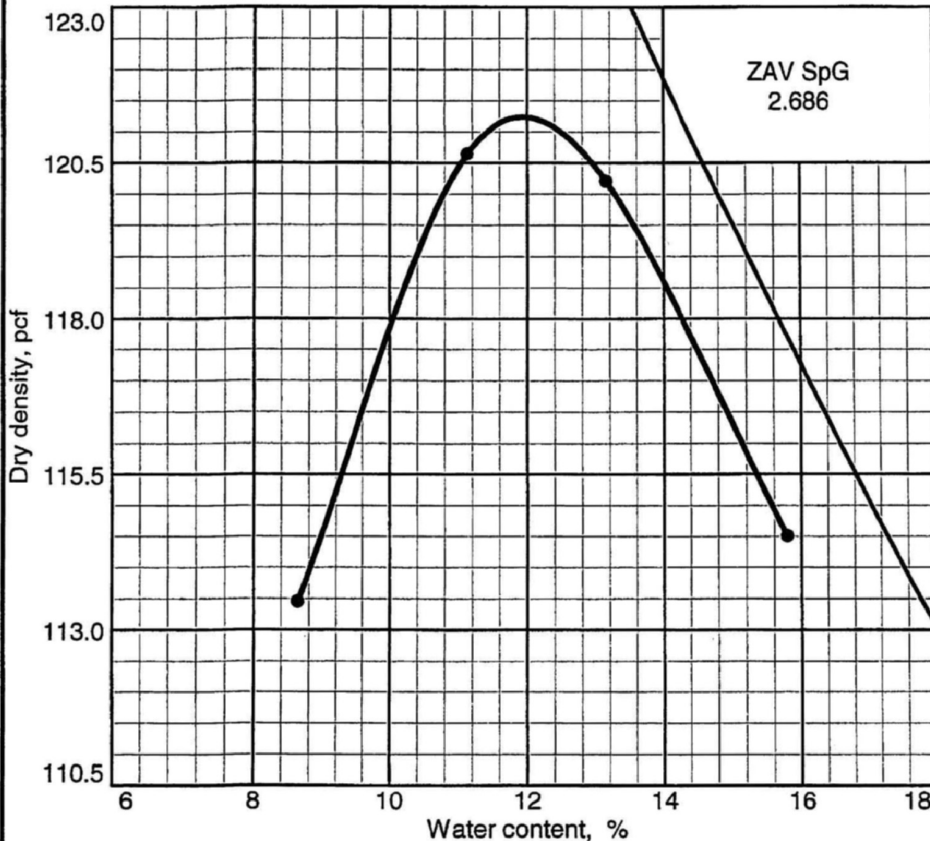
Remarks:

ND = Not Determined
 Natural Moisture was obtained from Jar
 Sample S-2,4'

Checked by: LBJ
Title: LAB MANAGER

Figure N/A

COMPACTION TEST REPORT/ ASTM D-1557-02



Curve No.
TP 2337 B2

Test Specification:

ASTM D 1557-02 Method A Modified

Preparation Method Dry
 Hammer Wt. 10 lb.
 Hammer Drop 18 in.(mechanical)
 Number of Layers five
 Blows per Layer 25
 Mold Size .03317 cu.ft.

Test Performed on Material

Passing No.4 Sieve

NM 17.2 LL 41 PI 25

Sp.G. (ASTM D 854) 2.686

%>No.4 0.0 %<No.200 75.0

USCS CL AASHTO A-7-6(17)

Date Sampled 1/20/08

Date Tested 2/27/08

Tested By AWH

TESTING DATA

	1	2	3	4	5	6
WM + WS	6060.3	6222.9	6252.2	6200.8		
WM	4205.9	4205.9	4205.9	4205.9		
WW + T #1	579.20	609.20	709.10	711.50		
WD + T #1	533.70	548.90	627.50	615.40		
TARE #1	6.80	6.70	6.80	7.00		
WW + T #2	N/A	N/A	N/A	N/A		
WD + T #2	N/A	N/A	N/A	N/A		
TARE #2	N/A	N/A	N/A	N/A		
MOISTURE	8.6	11.1	13.1	15.8		
DRY DENSITY	113.5	120.6	120.2	114.5		

TEST RESULTS

Maximum dry density = 121.0 pcf

Optimum moisture = 12.0 %

Project No. 6468071777 Client: Bechtel

Project: Exelon Texas COL (Victoria)

● Source: TP-2337

Sample No.: Bulk 2

Elev./Depth: 10.0'

MACTEC, Inc.

Raleigh, North Carolina

Material Description

Light Gray with Brownish Yellow Lean
CLAY with sand

Remarks:

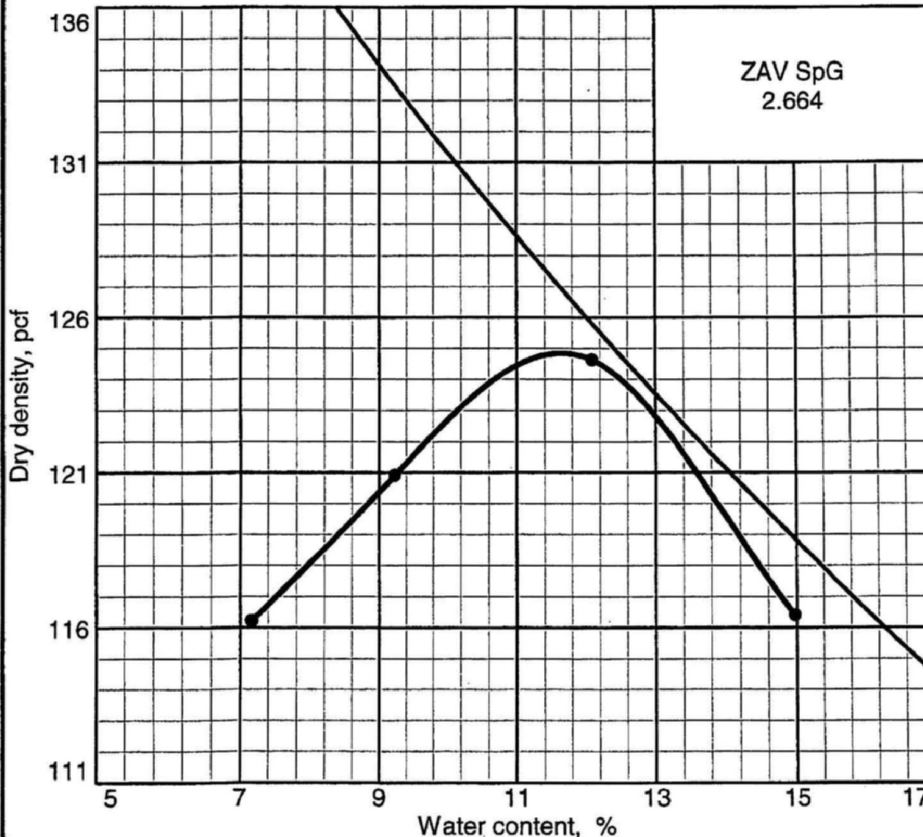
Natural Moisture was obtained from Jar
Sample S-4,10'

Checked by: LBJ

Title: LAB MANAGER

DSC
42-08
Figure NA
DCN# EXE-808

COMPACTION TEST REPORT/ ASTM D-1557-02



Curve No.
TP 2351 B2

Test Specification:

ASTM D 1557-02 Method A Modified

Preparation Method Dry
 Hammer Wt. 10 lb.
 Hammer Drop 18 in.(mechanical)
 Number of Layers five
 Blows per Layer 25
 Mold Size .03317 cu.ft.
 Test Performed on Material
 Passing No.4 Sieve
 NM 13.0 LL 29 PI 16
 Sp.G. (ASTM D 854) 2.664
 %>No.4 0.0 %<No.200 38.2
 USCS SC AASHTO A-6(2)
 Date Sampled 1/21/08
 Date Tested 2/27/08
 Tested By AWH

TESTING DATA

	1	2	3	4	5	6
WM + WS	6079.7	6193.0	6307.6	6219.6		
WM	4205.9	4205.9	4205.9	4205.9		
WW + T #1	577.10	578.60	583.80	615.20		
WD + T #1	539.00	530.30	521.60	536.30		
TARE #1	7.30	7.10	7.00	9.50		
WW + T #2	N/A	N/A	N/A	N/A		
WD + T #2	N/A	N/A	N/A	N/A		
TARE #2	N/A	N/A	N/A	N/A		
MOISTURE	7.2	9.2	12.1	15.0		
DRY DENSITY	116.2	120.9	124.6	116.4		

TEST RESULTS

Maximum dry density = 125.0 pcf

Optimum moisture = 11.5 %

Project No. 6468071777 Client: Bechtel

Project: Exelon Texas COL (Victoria)

● Source: TP-2351

Sample No.: Bulk 2

Elev./Depth: 3.5-10.0

MACTEC, Inc.

Raleigh, North Carolina

Material Description

Pale Yellow Clayey SAND

Remarks:

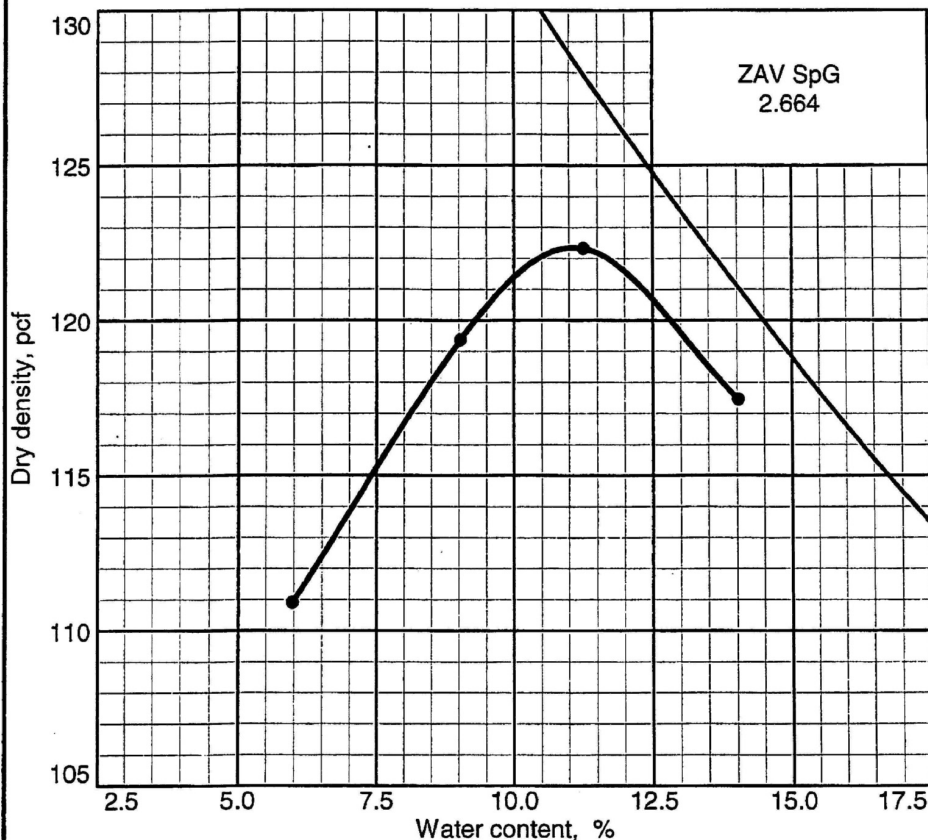
Natural Moisture was obtained from Jar Sample S-2,4'

Checked by: LBJ

Title: LAB MANAGER

DSC
4-2-08
Figure NA

COMPACTION TEST REPORT/ ASTM D-1557-02



Curve No.
TP 2352 B1

Test Specification:

ASTM D 1557-02 Method A Modified

Preparation Method Dry
 Hammer Wt. 10 lb.
 Hammer Drop 18 in.(mechanical)
 Number of Layers five
 Blows per Layer 25
 Mold Size .03317 cu.ft.

Test Performed on Material

Passing No.4 Sieve

NM 17.0 LL ND PI

Sp.G. (ASTM D 854) 2.664

%>No.4 0.0 %<No.200 66.9

USCS CL AASHTO ND

Date Sampled 1/31/08

Date Tested 2/27/08

Tested By AWH

TESTING DATA

	1	2	3	4	5	6
WM + WS	5974.2	6164.1	6253.5	6221.0		
WM	4205.9	4205.9	4205.9	4205.9		
WW + T #1	611.80	613.00	788.50	698.90		
WD + T #1	577.70	562.80	709.40	613.80		
TARE #1	6.80	6.80	6.70	7.20		
WW + T #2	N/A	N/A	N/A	N/A		
WD + T #2	N/A	N/A	N/A	N/A		
TARE #2	N/A	N/A	N/A	N/A		
MOISTURE	6.0	9.0	11.3	14.0		
DRY DENSITY	110.9	119.4	122.3	117.5		

TEST RESULTS

Maximum dry density = 122.5 pcf

Optimum moisture = 11.0 %

Project No. 6468071777 Client: Bechtel

Project: Exelon Texas COL (Victoria)

• Source: TP-2352

Sample No.: Bulk 1

Elev./Depth: 4.0-5.0

MACTEC, Inc.

Raleigh, North Carolina

Material Description

Dark Gray with Brownish Yellow Sandy Lean
CLAY (Visual)

Remarks:

ND = Not Determined
 Natural Moisture was obtained from Jar
 Sample S-2,4-5'

Checked by: LBJ

Title: LAB MANAGER

DSC
4-2-08