



**ENTACT**  
ENVIRONMENTAL SERVICES

**RECORD OF COMPACTION TESTING**

DATE	TIME	TEST #	LIFT	LOCATION	% compaction	% Moisture	Max Dry Density	Dry Density	NOTES
05/17/07	1650	1	1	Group A sheet #92	100+	2.5	141.6	144.2	6" lift
05/17/07	1730	2	2	Group A sheet #91	100+	3.4	141.6	143.4	6" lift
05/17/07	1800	3	3	Group A sheet #89	100	3.8	141.6	144.7	6" lift
05/17/07	1830	4	4	Group A sheet #99	100	2.9	141.6	141.3	6" lift
05/17/07	2035	5	4	Group B sheet #111	100	3.4	141.6	141.1	6" lift

\*Compaction requirement= 100%

\*General Location= N. Clinton Ave., Segment 1

\*Sheet Pile references are estimated.

\*Please Refer to Elevation table for group locations.

\*ENTACT oversight= Stacy Chernicky

\*Backfill= Type 4 DGA, Tilcon Clinton Point



MATERIALS TESTING

Materials Testing Lab Inc.
NY Metropolitan Regional Office / Corporate Headquarters
145 Sherwood Avenue, Farmingdale, NY 11735 (631) 815-1900 FAX (631) 815-1901
www.materials-testing.com

Client: ENTRACT ENVIRONMENTAL

Report #:
Date: 5-17-07
Technician:

Project: MB1886 (KEYSPAN)
Test: In-Place Density Test
Method: ASTM D2922

[X] Street [ ] Sidewalk [ ] Other

General Location: N. CLINTON SEGMENT 1

Table with 7 columns: Test #, Elev/Depth of Test, Specific Location, % Moisture, Dry Density (PCF), Max. Dry Density (PCF), % Comp. P. Contains 5 rows of test data.

Remarks:

Material Type: DGA (ROAD SUB-BASE)
Item # 4

Reported To: --

Min. Compaction Req. 100%
Complies: [ ]

Submitted By: Materials Testing Lab, Inc.

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**Client:** Entact Environmental  
 66 North Clinton Avenue  
 Bay Shore, NY 11706

**Project:** NE1886  
**Test:** In-Place Density Test  
**Method:** ASTM D2922

**Report #:** 07EEC-010  
**Date:** 05/17/07  
**Technician:** Robert Villavicencio

Street       Sidewalk       Other

**General Location:** North Clinton Ave. & Union Blvd.

Test #	Elev/Depth of Test	Specific Location	% Moisture	Dry Density (PCF)	Max. Dry Density (PCF)	% Comp
1	@ 6" Below Grade	15' South of West Curb Line 1 <sup>st</sup> Lift	2.5	144.2	141.6	100+
2	@ 6" Below Grade	15' South of West Curb Line 2 <sup>nd</sup> Lift	3.4	143.4	141.6	100+
3	@ 6" Below Grade	10' South of West Curb Line 3 <sup>rd</sup> Lift	3.8	144.7	141.6	100+
4	@ 6" Below Grade	30' South of West Curb Line 4 <sup>th</sup> Lift	2.9	141.3	141.6	99.8
5	@ 6" Below Grade	75' South of West Curb Line 4 <sup>th</sup> Lift	3.4	141.1	141.6	99.6

**Remarks:** OK 99.6 & 99.8

**Material Type:** DGA (Road Sub-base)  
**Item #**

**Reported To:**

**Min. Compaction Req.:** 99.6%  
**Complies:** Yes

**Submitted By:** Materials Testing Lab, Inc.

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**Client:** Entact Environmental  
 66 North Clinton Avenue  
 Bay Shore, NY 11706

**Report #:** 07EE-006  
**Date:** 3/26/2007  
**Lab# :** 8097

**Project:** Key Span - NE1886  
**Sample:** NE1886-DGA-001  
**Test:** Laboratory Compaction Characteristics of Soil Using Modified Effort  
**Method:** ASTM D1557 "C"  
**Sampled By:** Client      **On** 3/20/2007      **DELIVERED BY:** Client

<u>% MOISTURE</u>	<u>DRY DENSITY</u>
2.4	138.5
3.1	139.7
5.9	141.6
8.8	137.6
10.5	133.2

**OPTIMUM MOISTURE**

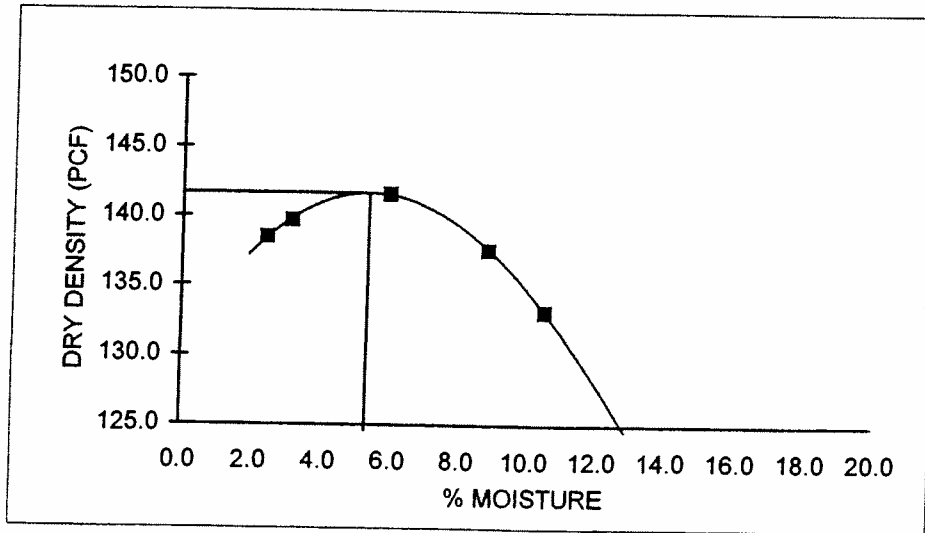
5.3 %

@

**MAXIMUM DRY DENSITY**

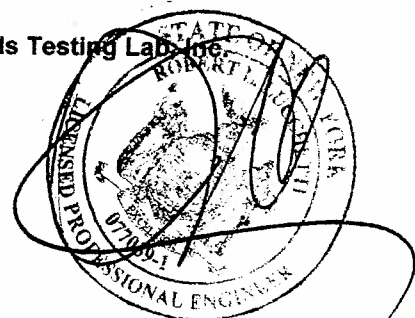
141.6

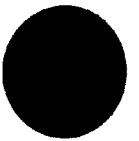
LBS./CU. FT.



**Reported To:--**

**Submitted By: Materials Testing Lab, Inc.**





**ENTACT**  
ENVIRONMENTAL SERVICES

## RECORD OF COMPACTION TESTING

DATE	TIME	TEST #	LIFT	LOCATION	% compaction	% Moisture	Max Dry Density	Dry Density	NOTES
05/18/07	0800	6	5	Group A sheet #93	100+	4.0	141.6	140.9	6" lift
05/18/07	0845	7	6	Group B sheet #117	100	4.8	141.6	141.0	6" lift
05/18/07	0915	8	6	Group A sheet #105	100+	3.2	141.6	142.6	4" lift
05/18/07	1130	9	7	Group A sheet #99	100	4.1	141.6	141.3	4" lift
05/18/07	1300	10	8	Group B sheet #112	100	3.0	141.6	141.3	6" lift
05/18/07	1430	11	8	Group A sheet #97	100	3.1	141.6	140.9	6" lift
05/18/07	1715	12	9	Group B sheet # 116	100	3.3	141.6	141.3	6" lift

\*Compaction requirement= 100%

\*General Location= N. Clinton Ave., segment 1

\*Sheet Pile references are estimated.

\*Please Refer to Elevation Table for group locations.

\*ENTACT oversight= Stacy Chervincky

\*Backfill= Type 4 DGA, Ticon Clinton Point



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Client: ENTACT

Report #:

Date: 5-18-08

Technician: ROBERT VILLAVICENCIO

Project: H01886
Test: In-Place Density Test
Method: ASTM D2922

Page 1 of 1

[X] Street [ ] Sidewalk [ ] Other

General Location: V. CLINTON & UNION BLVD

Table with 7 columns: Test #, Elev/Depth of Test, Specific Location, % Moisture, Dry Density (PCF), Max. Dry Density (PCF), % Comp. Rows 6-12 contain handwritten data.

Remarks:

Material Type:

Item #

Reported To:

Min. Compaction Req.

Complies:

100

Submitted By:

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**Client:** Entact Environmental  
 66 North Clinton Avenue  
 Bay Shore, NY 11706

**Report #:** 07EEC-009  
**Date:** 05/18/07  
**Technician:** Robert Villavicencio

**Project:** ME1884  
**Test:** In-Place Density Test  
**Method:** ASTM D2922

Street       Sidewalk       Other

**General Location:** North Clinton Ave. & Union Blvd.

Test #	Elev/Depth of Test	Specific Location	% Moisture	Dry Density (PCF)	Max. Dry Density (PCF)	% Comp
6	@ 6" Below Grade	18" South of West Curb Line 5 <sup>th</sup> Lift	4.0	140.9	141.6	99.5
7	@ 6" Below Grade	65" South of West Curb Line 6 <sup>th</sup> Lift	4.8	141.0	141.6	99.6
8	@ 4" Below Grade	42" South of West Curb Line 6 <sup>th</sup> Lift	3.2	142.6	141.6	100+
9	@ 4" Below Grade	30" South of West Curb Line 7 <sup>th</sup> Lift	4.1	141.3	141.6	99.8
10	@ 6" Below Grade	55" South of West Curb Line 8 <sup>th</sup> Lift	3.0	141.3	141.6	99.8
11	@ 6" Below Grade	25" South of West Curb Line 8 <sup>th</sup> Lift	3.1	140.9	141.6	99.5
12	@ 6" Below Grade	51" South of West Curb Line 9 <sup>th</sup> Lift	3.3	141.3	141.6	99.5

**Remarks:** OK with site inspector 99.5

**Material Type:**  
**Item #**

**Reported To:** Stacy Chervinsky

**Min. Compaction Req. Complies:** 99.5%  
Yes

**Submitted By:**   
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**Client:** Entact Environmental  
 66 North Clinton Avenue  
 Bay Shore, NY 11706

**Report #:** 07EE-006  
**Date:** 3/26/2007  
**Lab# :** 8097

**Project:** Key Span - NE1886  
**Sample:** NE1886-DGA-001  
**Test:** Laboratory Compaction Characteristics of Soil Using Modified Effort  
**Method:** ASTM D1557 "C"  
**Sampled By:** Client

On 3/20/2007 DELIVERED BY: Client

<u>% MOISTURE</u>	<u>DRY DENSITY</u>
2.4	138.5
3.1	139.7
5.9	141.6
8.8	137.6
10.5	133.2

**OPTIMUM MOISTURE**

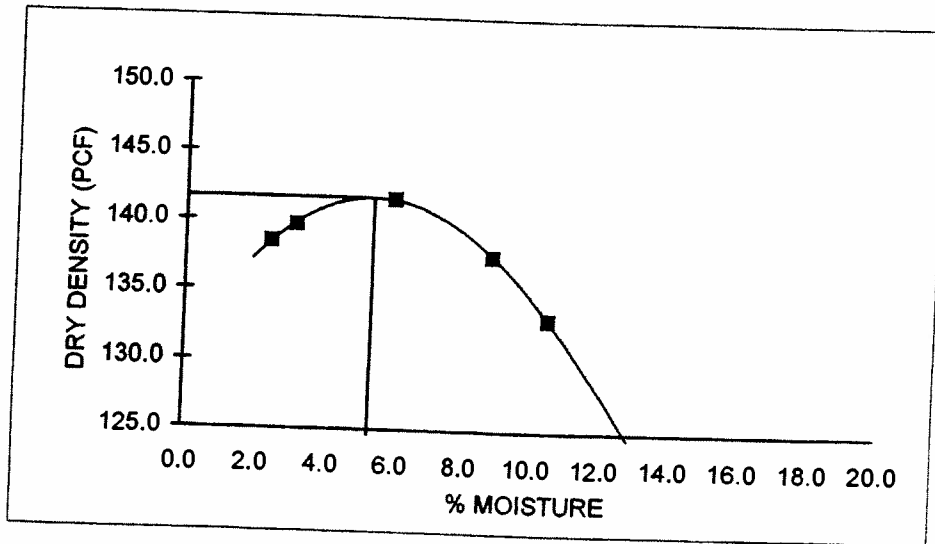
5.3 %

@

**MAXIMUM DRY DENSITY**

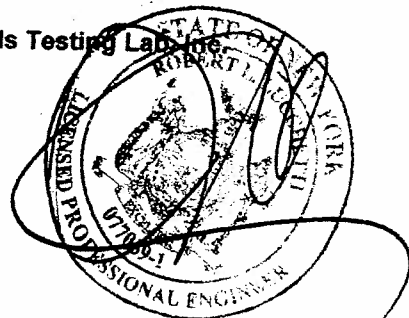
141.6

LBS./CU. FT.



**Reported To:-**

**Submitted By: Materials Testing Lab, Inc.**







**ENTACT**  
ENVIRONMENTAL SERVICES

### RECORD OF COMPACTION TESTING

DATE	TIME	TEST #	LIFT	LOCATION	% compaction	% Moisture	Max Dry Density	Dry Density	NOTES
05/19/08	--	1	1	Group N sheet #207	99.0	9.2	124.1	122.8	1ft lift (5ft bgs), lift 1
05/19/08	--	2	1	Group O sheet #179	98.3	9.3	124.1	121.9	1ft lift (5ft bgs), lift 1
05/19/08	--	3	2	Group N sheet #213	96.9	8.4	124.1	120.2	1ft lift (4ft bgs), lift 2
05/19/08	--	4	2	Group O sheet #189	97.8	8.1	124.1	121.3	1ft lift (4ft bgs), lift 2
05/19/08	--	5	3	Group N sheet #197	96.8	8.0	124.1	120.1	1ft lift (3ft bgs), lift 3
05/19/08	--	6	3	Group O sheet #202	98.1	8.3	124.1	121.7	1ft lift (3ft bgs), lift 3

\*Compaction requirement= 90%

\*General Location= Segment 3

\*Sheet Pile references are estimated.

\*Please Refer to Elevation table for group locations.

\*ENTACT Oversight= Stacy Chervinsky

\*Backfill= Import Fill from Stony Creek, Kings Park



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**Client:** ENTRACT

**Report #:**

**Date:** 06-19-08

**Technician:** MOD B

**Project:** NE 1886

**Test:** In-Place Density Test

**Method:** ASTM D2922

Page 1 of 1

Street                     
  Sidewalk                     
  Other TRENCH

**General Location:** South side of site along UNION RD.

Test #	Elev/Depth of Test	Specific Location	% Moisture	Dry Density (PCF)	Max. Dry Density (PCF)	% Comp
1	5' Below grade	Group N Sheet # 138	92	122.8	124.1	99.0
2	↓	Group O Sheet # 172	93	121.9		98.3
3	4'	Group N Sheet # 142	84	120.2		96.9
4	↓	Group O Sheet # 167	81	121.3		97.8
5	3'	Group N Sheet # 149	80	120.1		96.8
6	↓	Group O Sheet # 161	83	121.7		98.1

**Remarks:** 12" LPTS

**Material Type:** SOIL  
**Item #**

**Reported To:** --STACH

**Min. Compaction Req.** ~~95%~~ 90%  
**Complies:** -

**Submitted By:** Materials Testing Lab, Inc.

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Work Order #: 122237

**Client:** Entact Environmental  
 66 North Clinton Avenue  
 Bay Shore, NY 11706

**Report #:** 08EEC-002  
**Date:** 05/19/08  
**Technician:** Todd Brummer

**Project:** NE1886  
**Test:** In-Place Density Test  
**Method:** ASTM D2922

Page 1 of 1

Street       Sidewalk       Other      Trench

**General Location:** South side of site along Union Blvd.

Test #	Elev/Depth of Test	Specific Location	% Moisture	Dry Density (PCF)	Max. Dry Density (PCF)	% Comp
1	@ 5' Below Grade	Group "N" Sheet #138	9.2	122.8	124.1	99.0
2	@ 5' Below Grade	Group "O" Sheet #172	9.3	121.9	124.1	98.3
3	@ 4' Below Grade	Group "N" Sheet #142	8.4	120.2	124.1	96.9
4	@ 4' Below Grade	Group "O" Sheet #167	8.1	121.3	124.1	97.8
5	@ 3' Below Grade	Group "N" Sheet #149	8.0	120.1	124.1	96.8
6	@ 3' Below Grade	Group "O" Sheet #161	8.3	121.7	124.1	98.1

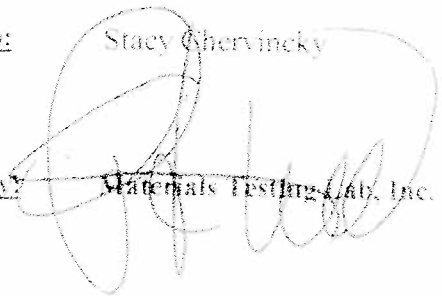
**Remarks:** \_\_\_\_\_

**Material Type:** Sand  
**Item #**

Reported To: Stacy Shervinsky

**Min. Compaction Req. Complies:**

95%
Y

Submitted By:  Materials Testing Lab, Inc.

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STONY CREEK SANDY SOIL  
1st 5000

**Client:** Entact Environmental  
66 North Clinton Avenue  
Bay Shore, NY 11706

**Report #:** 07EE-004  
**Date:** 8/22/2007  
**Lab#:** 8344

**Project:** NE7037  
**Sample:** NE7037-SAND-03  
**Test:** Laboratory Compaction Characteristics of Soil Using Modified Effort  
**Method:** ASTM D1557 "C"  
**Sampled By:** Client

On 8/21/2007 DELIVERED BY: Client

<u>% MOISTURE</u>	<u>DRY DENSITY</u>
5.6	121.2
8.2	123.5
11.0	124.1
13.1	123.6
15.8	121.8

**OPTIMUM MOISTURE**

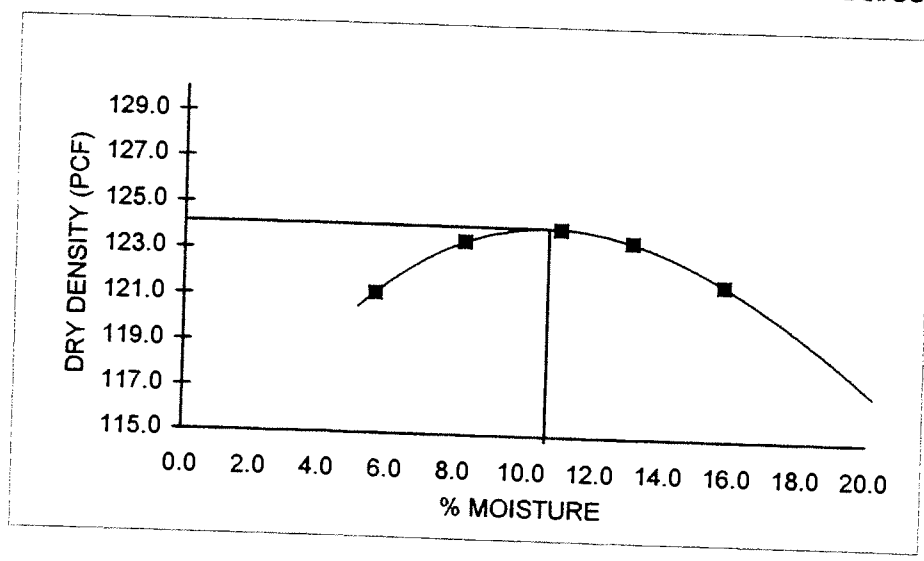
10.7 %

@

**MAXIMUM DRY DENSITY**

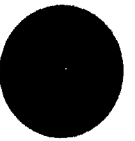
124.1

LBS./CU. FT.



Reported To:--

Submitted By: Materials Testing Lab, Inc.



**ENTACT**  
ENVIRONMENTAL SERVICES

## RECORD OF COMPACTION TESTING

DATE	TIME	TEST #	LIFT	LOCATION	% compaction	% Moisture	Max Dry Density	Dry Density	NOTES
05/20/08	--	1	4	Group N sheet #139	96.3	6.8	124.1	119.5	1ft lift (2ft bgs), lift 4
05/20/08	--	2	4	Group O sheet #163	97.4	6.9	124.1	120.8	1ft lift (2ft bgs), lift 4
05/20/08	--	3	5	Group N sheet #158	95.0	9.6	124.1	117.8	1ft lift (1ft bgs), lift 5
05/20/08	--	4	5	Group O sheet #173	95.5	9.8	124.1	118.5	1ft lift (1ft bgs), lift 5

\*Compaction requirement= 90%

\*General Location= Segment 3

\*Sheet Pile references are estimated.

\*Please Refer to Elevation table for group locations.

\*ENTACT Oversight= Stacy Chervincky

\*Backfill= Import Fill from Stony Creek, Kings Park



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**Client:** ENTRACT

**Report #:**

**Date:** 05-20-08

**Technician:** TOD B

**Project:** NE 1886

**Test:** In-Place Density Test

**Method:** ASTM D2922

Page 1 of 1

Street

Sidewalk

Other Trench

**General Location:** South end of S.I.C. along Union Blvd.

Test #	Elev/Depth of Test	Specific Location	% Moisture	Dry Density (PCF)	Max. Dry Density (PCF)	% Comp
1	2' Below Curbside	GROUP N - Sheet # 139	6.8	119.5	124.1	96.3
2	↓	GROUP O - Sheet # 163	6.9	120.8	↓	97.4
3	1' Below Curbside	GROUP N - Sheet # 158	9.6	117.8	↓	95.0
4	↓	GROUP O - Sheet # 173	9.8	118.5	↓	95.5

**Remarks:**

**Material Type:** Sand  
**Item #**

**Reported To:** --- [Signature]

**Min. Compaction Req.:** 95%  
**Complies:** 90%

**Submitted By:** Materials Testing Lab, Inc.

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Work Order #: 122436

Client: Entact Environmental  
 66 North Clinton Avenue  
 Bay Shore, NY 11706

Report #: 08EEC-001  
 Date: 05/20/08  
 Technician: Todd Brummer

Project: NE1886  
 Test: In-Place Density Test  
 Method: ASTM D2922

Page 1 of 1

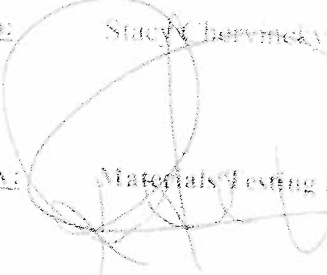
Street  Sidewalk  Other Trench

General Location: South end of site along Union Blvd.


Test #	Elev/Depth of Test	Specific Location	% Moisture	Dry Density (PCF)	Max. Dry Density (PCF)	% Comp
1	@ 2' Below Grade	Group "N" Sheet #139	6.8	119.5	124.1	96.3
2	@ 2' Below Grade	Group "O" Sheet #163	6.9	120.8	124.1	97.4
3	@ 1' Below Grade	Group "N" Sheet #158	9.6	117.8	124.1	95.0
4	@ 1' Below Grade	Group "O" Sheet #173	9.8	118.5	124.1	95.5

Remarks: \_\_\_\_\_

Material Type: Sand

Reported To: 

Min. Compaction Req. 95%  
 Complies:

Submitted By: 

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**Client:** Entact Environmental  
 66 North Clinton Avenue  
 Bay Shore, NY 11706

**Report #:** 07EE-004  
**Date:** 8/22/2007  
**Lab# :** 8344  
**Work Order #:** 108298

**Project:** NE7037  
**Sample:** NE7037-SAND-03  
**Test:** Laboratory Compaction Characteristics of Soil Using Modified Effort  
**Method:** ASTM D1557 "C"  
**Sampled By:** Client **On** 8/21/2007 **DELIVERED BY:** Client

<u>% MOISTURE</u>	<u>DRY DENSITY</u>
5.6	121.2
8.2	123.5
11.0	124.1
13.1	123.6
15.8	121.8

**OPTIMUM MOISTURE**

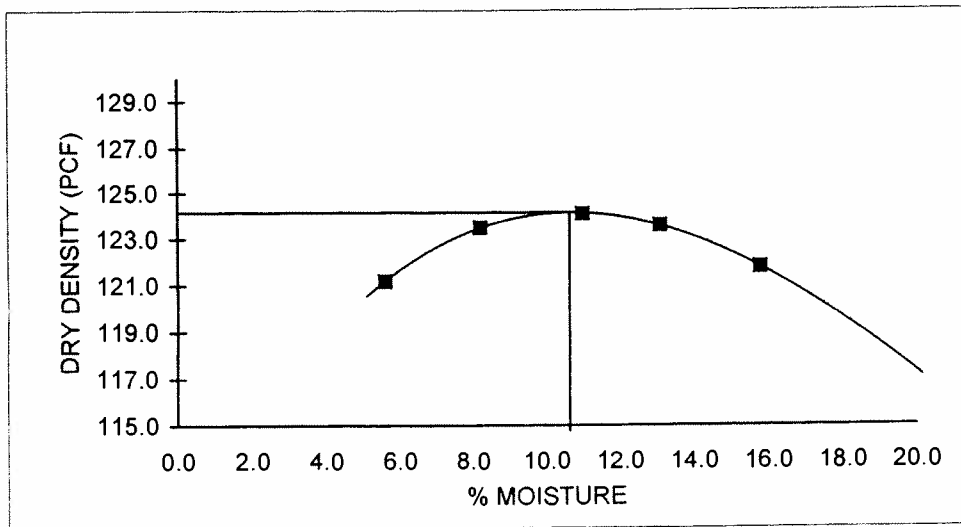
10.7 %

@

**MAXIMUM DRY DENSITY**

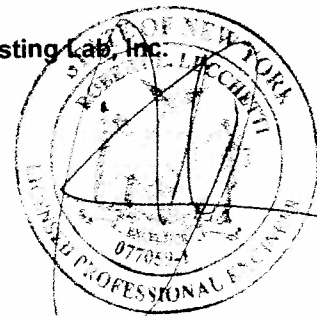
124.1

LBS./CU. FT.



**Reported To:--**

**Submitted By: Materials Testing Lab, Inc.**







**ENTACT**  
ENVIRONMENTAL SERVICES

## RECORD OF COMPACTION TESTING

DATE	TIME	TEST #	LIFT	LOCATION	% compaction		Max Dry Density	Dry Density	NOTES
					%	Moisture			
05/21/07	0800	13	1	Group C sheet #80	95.6	4.3	141.6	135.4	6" lift
05/21/07	0805	14	2	Group C sheet #84	97.2	4.0	141.6	137.6	6" lift
05/21/07	0815	15	3	Group C sheet #83	94.3	3.4	141.6	133.5	6" lift
05/21/07	0825	16	4	Group C sheet #84	93.5	3.0	141.6	129.6	6" lift
05/21/07	0831	17	5	Group C sheet #79	93.1	5.2	141.6	131.8	6" lift
05/21/07	0840	18	6	Group C sheet #77	92.3	3.0	141.6	130.6	6" lift
05/21/07	0900	19	7	Group C sheet #84	90.9	3.1	141.6	128.7	6" lift
05/21/07	0940	20	8	Group C sheet #80	93.5	3.1	141.6	132.4	6" lift

- \*Compaction requirement= 90%
- \*General Location= outside N. Clinton Ave., Segment 1
- \*Sheet Pile references are estimated.
- \*Please Refer to Elevation table for group locations.
- \*ENTACT oversight= Stacy Chervinsky
- \*Backfill= Type 4 DGA, Tilcon Clinton Point



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 www.materials-testing.com

Client: **ENTACT**

Report #:

Date: **5-21-07**

Technician: **ROBERT VILLAVICENCIO**

Project: **ME 1881**

Test: **In-Place Density Test**

Method: **ASTM D2922**

Page 1 of 1

Street       Sidewalk       Other

General Location: **N. CLINTON & UNION BLVD.**

Test #	Elev/Depth of Test	Specific Location	% Moisture	Dry Density (PCF)	Max. Dry Density (PCF)	% Comp
13	1 LIFE 6"	SHEET # 80				
14	2 " 6"	84	4.3	135.4	141.6	95.6
15	3 " 6"	83	4.0	137.6		97.2
16	4 " 6"	84	3.4	133.5		94.3
17	5 " 6"	79	3.0	129.6		93.5
18	6 " 6"	77	5.2	131.8		93.1
19	7 " 6"	84	3.0	130.6		92.3
20	8 " 6"	80	3.1	128.7		90.9
			3.1	132.4		93.5

Remarks:

Material Type:

Item #

Reported To:

Min. Compaction Req.

95%

Complies:

-

Submitted By:

Materials Testing Lab, Inc.

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 NY Metropolitan Regional Office - Corporate Headquarters  
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**Client:** Entact Environmental  
 66 North Clinton Avenue  
 Bay Shore, NY 11706

**Report #:** 07EEC-012  
**Date:** 05/21/07  
**Technician:** Robert Villavicencio

**Project:** NE1881  
**Test:** In-Place Density Test  
**Method:** ASTM D2922

Street       Sidewalk       Other

**General Location:** North Clinton Ave. & Union Blvd.

Test #	Elev/Depth of Test	Specific Location	% Moisture	Dry Density (PCF)	Max. Dry Density (PCF)	% Comp
13	@ 6" Below Grade	Sheet #80 1 <sup>st</sup> Lift	4.3	135.4	141.6	95.6
14	@ 6" Below Grade	Sheet #84 2 <sup>nd</sup> Lift	4.0	137.6	141.6	97.2
15	@ 6" Below Grade	Sheet #83 3 <sup>rd</sup> Lift	3.4	133.5	141.6	94.3
16	@ 6" Below Grade	Sheet #84 4 <sup>th</sup> Lift	3.0	129.6	141.6	93.5
17	@ 6" Below Grade	Sheet #79 5 <sup>th</sup> Lift	5.2	131.8	141.6	93.1
18	@ 6" Below Grade	Sheet #77 6 <sup>th</sup> Lift	3.0	130.6	141.6	92.3
19	@ 6" Below Grade	Sheet #84 7 <sup>th</sup> Lift	3.1	128.7	141.6	90.9
20	@ 6" Below Grade	Sheet #80 8 <sup>th</sup> Lift	3.1	132.4	141.6	93.5
1	@ 1' Below Grade	Cell 1 - Northwest corner 1 <sup>st</sup> Lift	7.6	124.6	134.5	92.6
2	@ 1' Below Grade	Cell 2 - Middle	8.2	123.3	134.5	91.6

**Remarks:**

**Material Type:**  
**Item #**

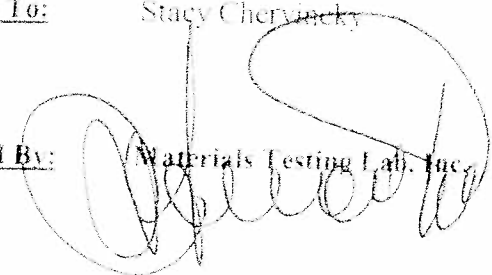
**Reported To:** Stacy Chervinsky

**Min. Compaction Req.:**

90%
-----

  
**Complies:**

Yes
-----

**Submitted By:**  Materials Testing Lab, Inc.

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**Client:** Entact Environmental  
 66 North Clinton Avenue  
 Bay Shore, NY 11706

**Report #:** 07EE-006  
**Date:** 3/26/2007  
**Lab# :** 8097

**Project:** Key Span - NE1886  
**Sample:** NE1886-DGA-001  
**Test:** Laboratory Compaction Characteristics of Soil Using Modified Effort  
**Method:** ASTM D1557 "C"  
**Sampled By:** Client

On 3/20/2007 DELIVERED BY: Client

<u>% MOISTURE</u>	<u>DRY DENSITY</u>
2.4	138.5
3.1	139.7
5.9	141.6
8.8	137.6
10.5	133.2

**OPTIMUM MOISTURE**

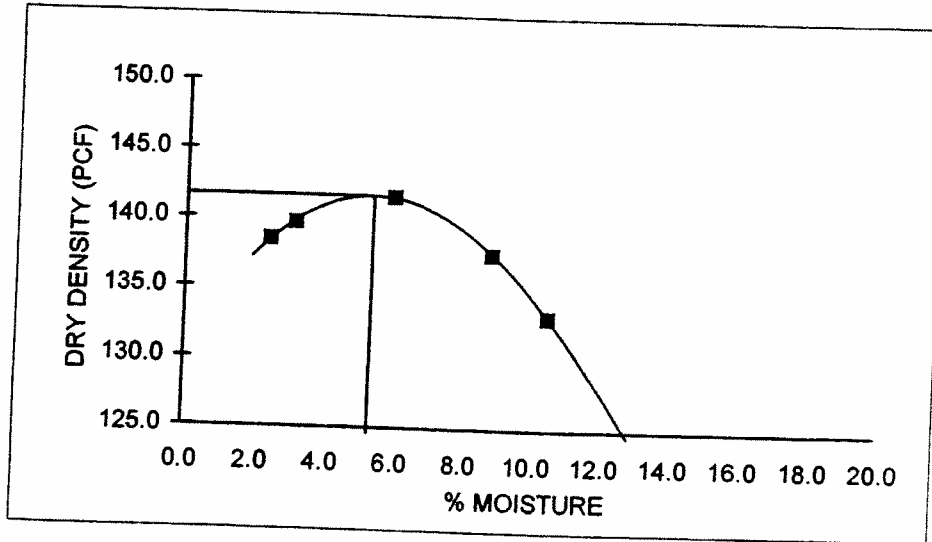
5.3 %

@

**MAXIMUM DRY DENSITY**

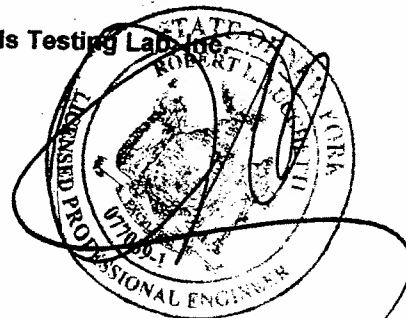
141.6

LBS./CU. FT.



Reported To:--

Submitted By: Materials Testing Lab Inc.





**ENTACT**  
ENVIRONMENTAL SERVICES

**RECORD OF COMPACTION TESTING**

DATE	TIME	TEST #	LIFT	LOCATION	% compaction	% Moisture	Max Dry Density	Dry Density	NOTES
05/22/07	08:18	SCE01	1	Cell 2 (see diagram)	90.7	2.6	128.7	116.7	1ft lift (4ft bgs)
05/22/07	09:30	SCE02	1	Cell 1 (see diagram)	91.5	3.8	128.7	117.8	1ft lift (4ft bgs)
05/22/07	10:07	SCE03	2	Cell 1 (see diagram)	90.0	2.7	128.7	115.8	1ft lift (3ft bgs)
05/22/07	10:25	SCE04	2	Cell 2 (see diagram)	91.2	3.3	128.7	117.4	1ft lift (3ft bgs)
05/22/07	10:58	SCE05	3	Cell 1 (see diagram)	91.4	3.3	128.7	117.6	1ft lift (2ft bgs)
05/22/07	11:16	SCE06	3	Cell 2 (see diagram)	93.1	3.9	128.7	119.8	1ft lift (2ft bgs)

- \*Compaction requirement= 90%
- \*General Location= Southern Cell
- \*Please Refer to diagram for locations
- \*ENTACT oversight= Jay Carvalho
- \*Backfill= Sandy Soil from Watral Brothers, Bay Shore



MATERIALS TESTING

Client: ENACT

Report #:

Date: 5-22-07

Technician: ROBERT VILLAVIEHENCIO

Project: NE 1886
Test: In-Place Density Test
Method: ASTM D2922

Street Sidewalk Other

General Location: N. CLINTON & UNION STS

Table with 7 columns: Test #, Elev/Depth of Test, Specific Location, % Moisture, Dry Density (PCF), Max. Dry Density (PCF), % Comp. Rows include test data for SCE01 through SCE08.

Remarks:

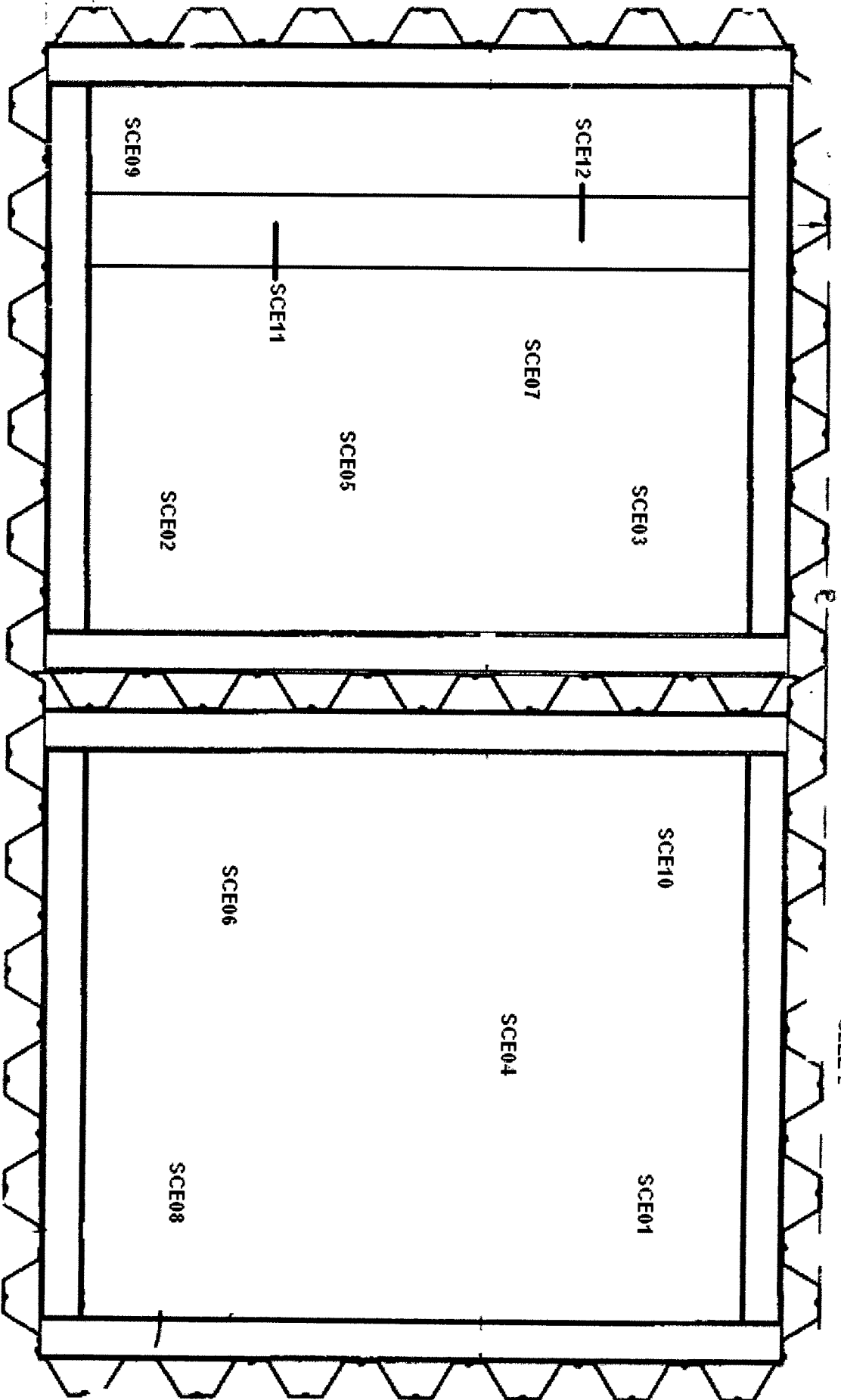
Material Type: SAND
Item #: H.T.L.

Reported To: --

Min. Compaction Req. 90%
Complies: -

Submitted By: Materials Testing Lab, Inc.

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CELL 1

CELL 2

SOUTH



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**Client:** Entact Environmental  
 66 North Clinton Avenue  
 Bay Shore, NY 11706

**Report #:** 07EEC-011  
**Date:** 05/22/07  
**Technician:** Robert Villavicencio

**Project:** NE1886  
**Test:** In-Place Density Test  
**Method:** ASTM D2922

Street       Sidewalk       Other

**General Location:** North Clinton Ave. & Union Blvd.

Test #	Elev/Depth of Test	Specific Location	% Moisture	Dry Density (PCF)	Max. Dry Density (PCF)	% Comp
1	1 <sup>st</sup> Lift	Cell 2 Middle North	2.6	116.7	128.7	90.7
2	1 <sup>st</sup> Lift	Cell 1 East center	3.8	117.8	128.7	91.5
3	2 <sup>nd</sup> Lift	Cell 1 Northeast Region	2.7	115.8	128.7	90.0
4	2 <sup>nd</sup> Lift	Cell 2 West Middle	3.3	117.4	128.7	91.2
5	3 <sup>rd</sup> Lift	Cell 1 West Middle	3.3	117.6	128.7	91.4
6	3 <sup>rd</sup> Lift	Cell 2 Southeast	3.9	119.8	128.7	93.1

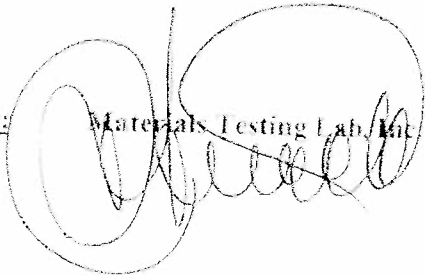
**Remarks:**

**Material Type:** Sand  
**Item #**

**Reported To:** Jay Carvalho

**Min. Compaction Req. Complies:**

95%
Yes

**Submitted By:**  Materials Testing Lab, Inc.

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WATRAL



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**Client:** Entact Environmental  
66 North Clinton Avenue  
Bay Shore, NY 11706

**Report #:** 07EE-006  
**Date:** 3/26/2007  
**Lab# :** 8097

**Project:** Key Span - NE1886  
**Sample:** NE1886-SAND-002  
**Test:** Laboratory Compaction Characteristics of Soil Using Modified Effort  
**Method:** ASTM D1557 "C"  
**Sampled By:** Client

**On** 3/20/2007 **DELIVERED BY:** Client

<u>% MOISTURE</u>	<u>DRY DENSITY</u>
3.2	127.7
5.6	128.7
7.3	128.4
10.4	127.1
13.2	125.4

**OPTIMUM MOISTURE**

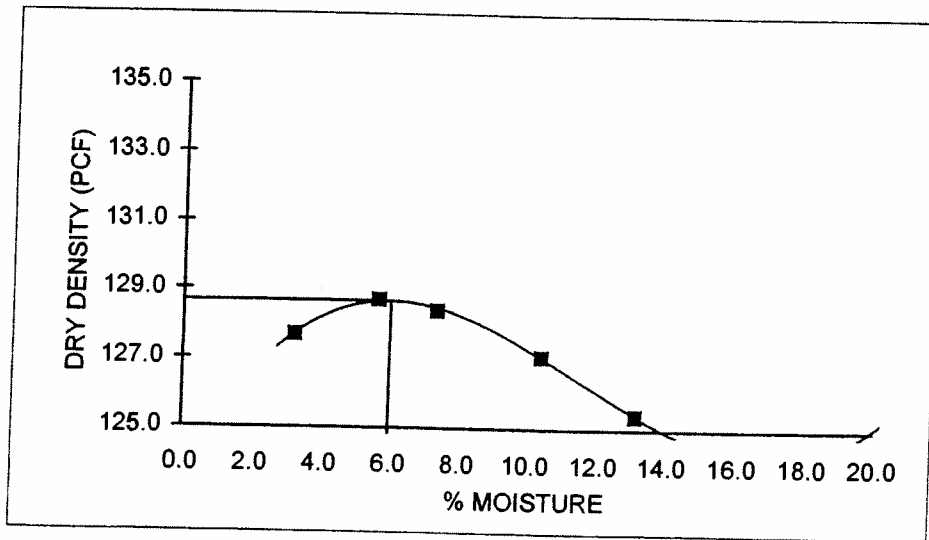
5.9 %

@

**MAXIMUM DRY DENSITY**

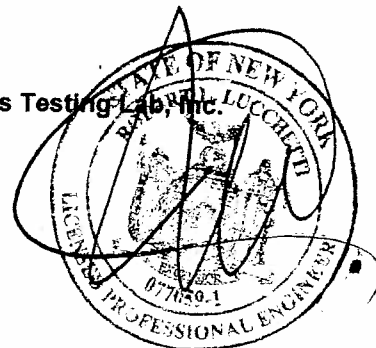
128.7

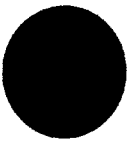
LBS./CU. FT.



**Reported To:--**

**Submitted By: Materials Testing Lab, Inc.**





**ENTACT**  
environmental services

## RECORD OF COMPACTION TESTING

DATE	TIME	TEST #	LIFT	LOCATION	% compaction	% Moisture	Max Dry Density	Dry Density	NOTES
05/23/07	--	SCE07	4	Cell 1 (see diagram)	91.5	6.0	128.7	117.8	1ft lift (1ft bgs)
05/23/07	--	SCE08	4	Cell 2 (see diagram)	90.2	3.2	128.7	116.1	1ft lift (1ft bgs)
05/23/07	--	SCE09	5	Cell 1 (see diagram)	90.4	3.4	128.7	116.3	1ft lift (0ft bgs)
05/23/07	--	SCE10	5	Cell 2 (see diagram)	90.1	6.2	128.7	116.0	1ft lift (0ft bgs)
05/23/07	--	SCE11 <sup>+</sup>	3	Cell 1 (see diagram)	91.4	6.5	128.7	117.6	1ft lift (2ft bgs)
05/23/07	--	SCE12 <sup>+</sup>	4	Cell 1 (see diagram)	90.0	6.2	128.7	115.8	1ft lift (1ft bgs)

\*Compaction requirement= 90%

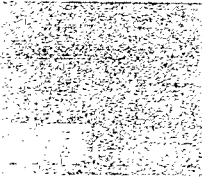
\*General Location= Southern Cell

\*Please Refer to diagram for locations

\*ENTACT Oversight= Jay Carvalho

\*Backfill= Sandy Soil from Watral Brothers, Bay Shore

+ Trench was dug in new lifts, then backfilled and recompacted.



MATERIALS TESTING

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Client: ENTACT

Report #:

Date: 5-23-07

Technician: CHRIS MARRO

Project: ME 1884
Test: SOIL DENSITY
Method: NUCLEAR

Street Sidewalk Other BACKFILL

General Location: NORTH SIDE OF EAST YARD

11
12
06
09
10

Table with 8 columns: Test #, Elev/Depth of Test, Specific Location, WET DENSITY, % Moisture, Dry Density (PCF), Max. Dry Density (PCF), % Comp. Contains 6 rows of test data.

Remarks:

Material Type:
Item #

Reported To:

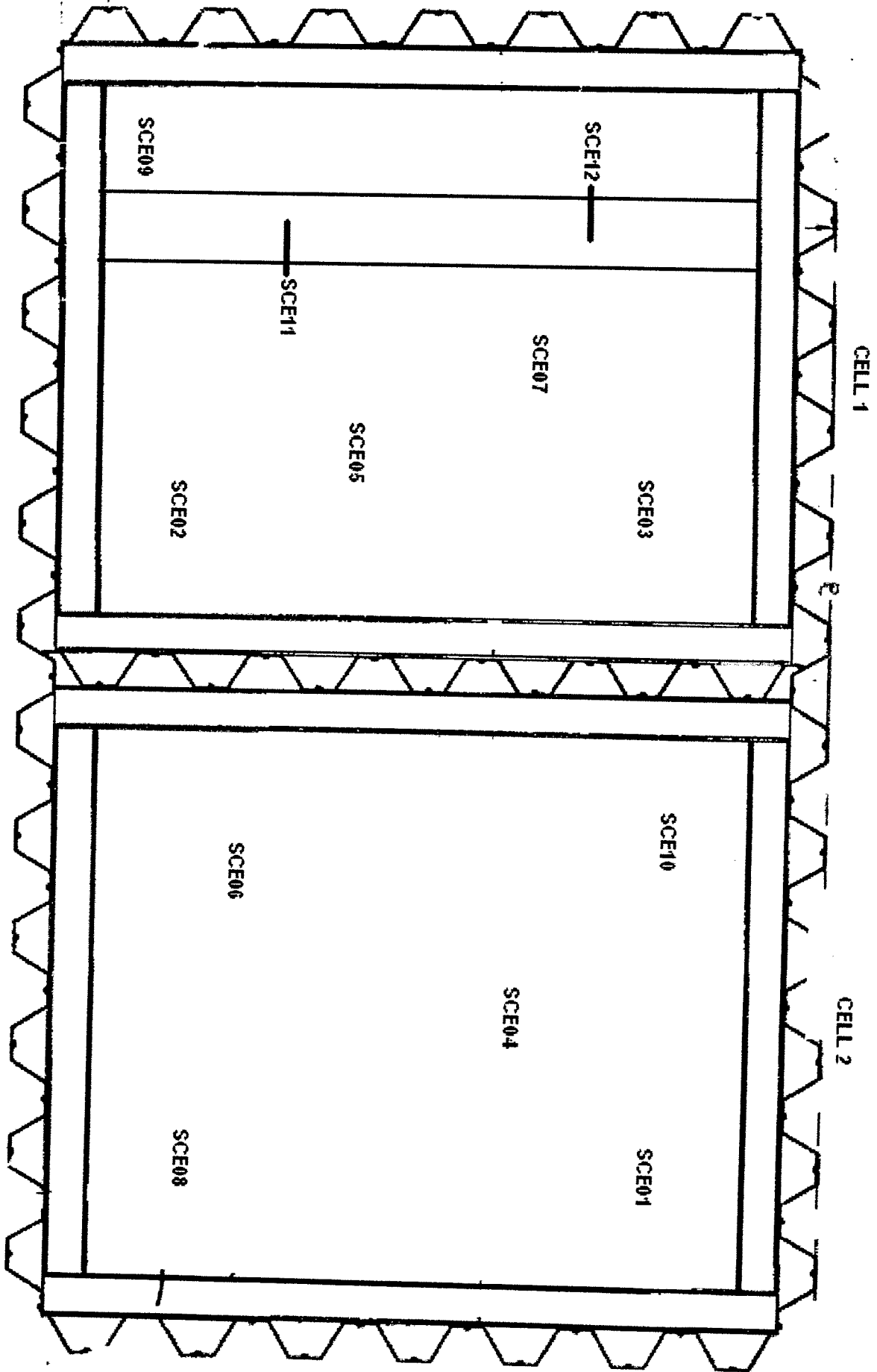
Min. Compaction Req.
Complies:

90%
-

Submitted By:

Materials Testing Lab, Inc.

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CELL 1

CELL 2

SOUTH



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**Client:** Entact Environmental  
 66 North Clinton Avenue  
 Bay Shore, NY 11706

**Report #:** 07EEC-013  
**Date:** 05/23/07  
**Technician:** Chris Marro

**Project:** ME1884  
**Test:** In-Place Density Test  
**Method:** ASTM D2922

Street       Sidewalk       Other      Backfill

**General Location:** North side of East yard

Test #	Elev/Depth of Test	Specific Location	% Moisture	Dry Density (PCF)	Max. Dry Density (PCF)	% Comp
1	@ 4' Below grade	Trench	6.5	117.6	128.7	91.4
2	@ 3' Below grade	Trench	6.2	115.8	128.7	90.0
3	@ 2' Below grade	West side of backfill area	6.0	117.8	128.7	91.5
4	@ 2' Below grade	East side of backfill area	3.2	116.1	128.7	90.2
5	@ 1' Below grade	West side of backfill area	3.4	116.3	128.7	90.4
6	@ 1' Below grade	East side of backfill area	6.2	116.0	128.7	90.1

**Remarks:**

**Material Type:**  
**Item #**

**Reported To:** Jay Cavalho

**Min. Compaction Req. Complies:**

90%  
 Yes

**Submitted By:**

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**Client:** Entact Environmental  
66 North Clinton Avenue  
Bay Shore, NY 11706

**Report #:** 07EE-006  
**Date:** 3/26/2007  
**Lab# :** 8097

**Project:** Key Span - NE1886  
**Sample:** NE1886-SAND-002  
**Test:** Laboratory Compaction Characteristics of Soil Using Modified Effort  
**Method:** ASTM D1557 "C"  
**Sampled By:** Client

**On** 3/20/2007 **DELIVERED BY:** Client

<u>% MOISTURE</u>	<u>DRY DENSITY</u>
3.2	127.7
5.6	128.7
7.3	128.4
10.4	127.1
13.2	125.4

**OPTIMUM MOISTURE**

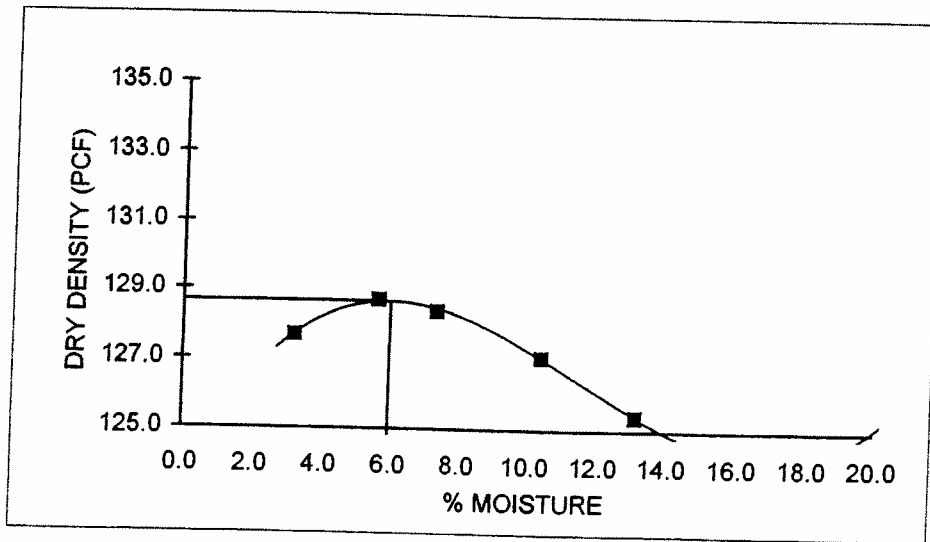
5.9 %

@

**MAXIMUM DRY DENSITY**

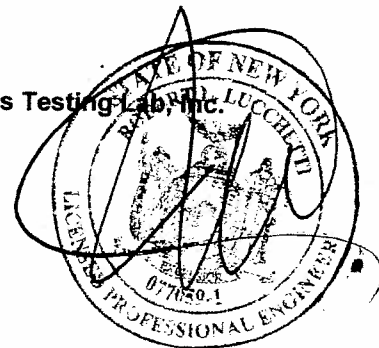
128.7

LBS./CU. FT.



**Reported To:--**

**Submitted By: Materials Testing Lab, Inc.**



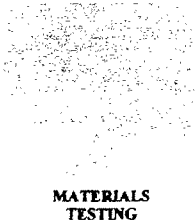


**ENTACT**  
ENVIRONMENTAL SERVICES

**RECORD OF COMPACTION TESTING**

DATE	TIME	TEST #	LIFT	LOCATION	% compaction	% Moisture	Max Dry Density	Dry Density	NOTES
05/25/07	--	1	1	Group D sheet #75	90.9	5.4	120.6	109.6	1ft lift
05/25/07	--	2	2	Group D sheet #72	92.0	3.2	120.6	111.0	1ft lift
05/25/07	--	3	3	Group D sheet #73	92.8	2.2	120.6	111.9	6in lift
05/25/07	--	4	4	Group D sheet #68	91.6	4.7	120.6	110.4	6in lift
05/25/07	--	5	5	Group D sheet #74	92.7	3.2	120.6	111.7	1ft lift
05/25/07	--	6	1	Group E sheet #54	91.7	3.8	120.6	110.6	1ft lift
05/25/07	--	7	2	Group E sheet #55	90.7	4.8	120.6	109.4	1ft lift
05/25/07	--	8	3	Group E sheet #56	93.9	2.6	120.6	113.3	1ft lift

- \*Compaction requirement= 90%
- \*General Location= Segments 1&2, sheets 52-76
- \*Sheet Pile references are estimated.
- \*Please Refer to Elevation table for group locations.
- \*ENTACT Oversight= Jay Carvalho
- \*Backfill= Sandy Soil from Watral Brothers, Bay Shore



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Client: ENTACT

Report #: \_\_\_\_\_  
 Date: 5-25-07  
 Technician: CHRIS MARRO

Project: ME 1884  
 Test: SOIL DENSITY  
 Method: NUCLEAR

Street       Sidewalk       Other TRENCH

General Location: SOUTH HALF OF TRENCH ON WEST SIDE OF THE STREET

Test #	Elev/Depth of Test	Specific Location	WET DENSITY	% Moisture	Dry Density (PCF)	Max. Dry Density (PCF)	% Comp
1	3' BG	SOUTH SIDE OF TRENCH	115.5	5.4	109.6	120.6	90.9
2	2' BG	" " " "	114.5	3.2	111.0	120.6	92.0
3	1' BG	" " " "	114.4	2.2	111.9	120.6	92.8
4	3' BG	CENTER OF TRENCH	115.6	4.7	110.4	120.6	91.6
5	@ GRADE	SOUTH SIDE OF TRENCH	115.3	3.2	111.7	120.6	92.7
6	2' BG	CENTER OF TRENCH	114.8	3.8	110.6	120.6	91.7
7	1' BG	" " " "	114.7	4.8	109.4	120.6	90.7
8	@ GRADE	" " " "	116.2	2.6	113.3	120.6	93.9

Remarks: \_\_\_\_\_

Material Type: SAND  
 Item # \_\_\_\_\_

Reported To: --

Min. Compaction Req. 90%  
 Complies: Y

Submitted By: Materials Testing Lab, Inc.

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**Client:** Entact Environmental  
 66 North Clinton Avenue  
 Bay Shore, NY 11706

**Report #:** 07EEC-014  
**Date:** 05/25/07  
**Technician:** Chris Marro

**Project:** ME1884  
**Test:** In-Place Density Test  
**Method:** ASTM D2922

Street       Sidewalk       Other      Trench

**General Location:** Trench on West side of N. Clinton Ave.

Test #	Elev/Depth of Test	Specific Location	% Moisture	Dry Density (PCF)	Max. Dry Density (PCF)	% Comp
1	@ 3' Below Grade	South side of Trench	5.4	109.6	120.6	90.9
2	@ 2' Below Grade	South side of Trench	3.2	111.0	120.6	92.0
3	@ 1' Below Grade	South side of Trench	2.2	111.9	120.6	92.8
4	@ 3' Below Grade	Center of Trench	4.7	110.4	120.6	91.6
5	@ Grade	South side of Trench	3.2	111.7	120.6	92.7
6	@ 2' Below Grade	Center of Trench	3.8	110.6	120.6	91.7
7	@ 1' Below Grade	Center of Trench	4.8	109.4	120.6	90.7
8	@ Grade	Center of Trench	2.6	113.3	120.6	93.9

**Remarks:**

**Material Type:** Sand  
**Item #**

Reported To:

**Min. Compaction Req. Complies:**

90%
Yes

Submitted By:  Materials Testing Lab, Inc.

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REDO OF WATERAL IMPORT



MATERIALS TESTING

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**Client:** Entact Environmental  
66 North Clinton Avenue  
Bay Shore, NY 11706

**Report #:** 07EE-010  
**Date:** 5/24/2007  
**Lab# :** 8180

**Project:** Key Span - NE1886  
**Sample:** NE1886-SAND-003  
**Test:** Laboratory Compaction Characteristics of Soil Using Modified Effort  
**Method:** ASTM D1557 "C"

**Sampled By:** MTL **On** 5/24/2007 **DELIVERED BY:** MTL

<u>% MOISTURE</u>	<u>DRY DENSITY</u>
3.7	116.6
5.1	119.8
6.2	120.6
7.8	119.7
9.3	117.1

**OPTIMUM MOISTURE**

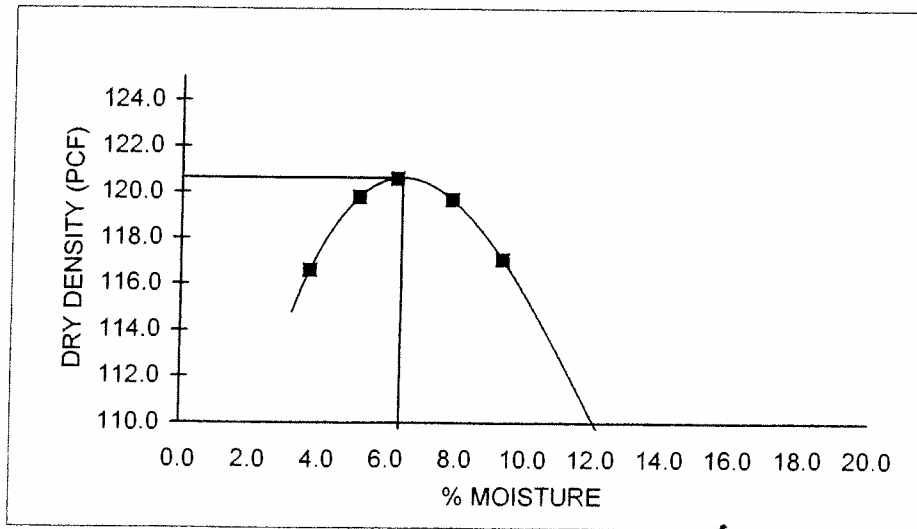
**MAXIMUM DRY DENSITY**

6.3 %

@

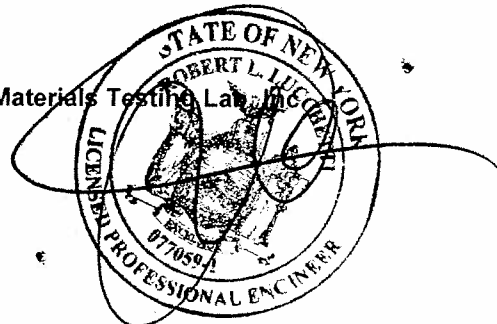
120.6

LBS./CU. FT.



Reported To:--

Submitted By: Materials Testing Lab, Inc





**Materials Testing Lab Inc.**  
 NY Metropolitan Regional Office / Corporate Headquarters  
 145 Sherwood Avenue, Farmingdale, New York 11735  
 Phone (631) 815-1900 • Fax (631) 815-1901 • www.materials-testing.com

**Client:** Entact Environmental  
 66 North Clinton Avenue  
 Bay Shore, NY 11706  
**Project:** ME1884

**Report #:** 07EEC-015  
**Date:** 05/24/07  
**Technician:** Chris Marro

Page 1 of 1

**NON-CONFORMANCE REPORT**

**TYPE OF INSPECTION:**

- |                                       |   |   |                                       |
|---------------------------------------|---|---|---------------------------------------|
| <input type="checkbox"/> Masonry      | <input type="checkbox"/> Concrete Field | <input checked="" type="checkbox"/> Soil Compaction | <input type="checkbox"/> ND Asphalt   |
| <input type="checkbox"/> Welding      | <input type="checkbox"/> Bolting        | <input type="checkbox"/> Decking                    | <input type="checkbox"/> Fireproofing |
| <input type="checkbox"/> Firestopping | <input type="checkbox"/> Studs          | <input type="checkbox"/> Piping                     |                                       |
| <input type="checkbox"/> Other: _____ |   |   |                                       |

**DESCRIPTION OF NON-CONFORMANCE:**

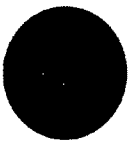
(INDICATE REFERENCE TO APPLICABLE REQUIREMENT, IE: DRAWING SPECIFICATION, CODE OR STANDARD.)

90% compaction could not be achieved through any method in the field. A sample was taken from the stockpile for lab testing.

Reported To:

Submitted By: Materials Testing Lab, Inc.

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**ENTACT**  
ENVIRONMENTAL SERVICES

## RECORD OF COMPACTION TESTING

DATE	TIME	TEST #	LIFT	LOCATION	% compaction	% Moisture	Max Dry Density	Dry Density	NOTES
06/05/07	0841	1	1	Group F sheet #38	92.4	3.6	120.6	111.4	Gin lift (5ft bgs)
06/05/07	0857	2	1	Group G sheet #15	90.9	4.0	120.6	109.7	Gin lift (5ft bgs)
06/05/07	0950	3	2	Group F sheet #32	90.1	3.7	120.6	108.7	Gin lift (4.5ft bgs)
06/05/07	0952	4	2	Group G sheet #9	94.9	3.8	120.6	114.5	Gin lift (4.5ft bgs)
06/05/07	1020	5	3	Group F sheet #45	90.8	3.0	120.6	109.5	1ft lift (3ft bgs)
06/05/07	1038	6	3	Group G sheet #6	91.6	3.5	120.6	110.5	1ft lift (3ft bgs)
06/05/07	1102	7	4	Group F sheet #50	91.8	4.3	120.6	110.7	1ft lift (2ft bgs)
06/05/07	1110	8	4	Group G sheet #12	90.0	3.9	120.6	108.5	1ft lift (2ft bgs)
06/05/07	1246	9	5	Group G sheet #18	90.8	4.0	120.6	109.5	1ft lift (1ft bgs)
06/05/07	1248	10	5	Group F sheet #10	91.5	4.1	120.6	110.3	1ft lift (1ft bgs)

\*Compaction requirement= 90%

\*General Location= Segment 2, sheets 5-51

\*Sheet Pile references are estimated.

\*Please Refer to Elevation table for group locations.

\*ENTACT Oversight= Stacy Chervinsky

\*Backfill= Sandy Soil from Watral Brothers, Bay Shore



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### Materials Testing Lab Inc.

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www.materials-testing.com

Client: **ENTACT**

Report #:

Date: **6-5-07**

Technician: **ROBERT VILLAVIENCIO**

Project: **ME1886**

Test: **In-Place Density Test**

Method: **ASTM D2922**

Page 1 of 1

Street

Sidewalk

Other

General Location: **N. CLINTON<sup>AV</sup> & UNION<sup>BLVD.</sup>**

Test #	Elev/Depth of Test	Specific Location	% Moisture	Dry Density (PCF)	Max. Dry Density (PCF)	% Comp
1	1 FT 6 IN	SHEET # 38 5 FT BGS	3.6	111.4	120.6	92.4
2	1 6 IN	15 5 FT BGS	4.0	109.9		90.9
3	2 6 IN	32 4 1/2 "	3.9	108.9		90.1
4	2 6 IN	9 4 1/2 "	3.8	114.5		94.9
5	3 1 FT	45 3 "	3.0	109.5		90.8
6	3 1 FT	6 3 "	3.5	110.5		91.6
7	4 1 FT	50 2 "	4.3	110.7		91.8
8	4 1 FT	12 1 "	3.9	108.5		90.0
9	5 1 FT	18 1 "	4.0	109.5		90.8
10	5 1 FT	10 1 "	4.1	110.3		91.5

Remarks:

Material Type:

Item #

Reported To: --

Min. Compaction Req.

Complies:

90%  
-

Submitted By:

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**Client:** Entact Environmental  
 66 North Clinton Avenue  
 Bay Shore, NY 11706  
**Project:** NE1886  
**Test:** In-Place Density Test  
**Method:** ASTM D2922

**Report #:** 07EEC-016  
**Date:** 06/05/07  
**Technician:** Robert Villavicencio

Street       Sidewalk       Other \_\_\_\_\_

**General Location:** North Clinton Ave. & Union Blvd.

Test #	Elev/Depth of Test	Specific Location	% Moisture	Dry Density (PCF)	Max. Dry Density (PCF)	% Comp
1	@ 6" 1 <sup>st</sup> lift	Sheet #38 (5' bgs.)	3.6	111.4	120.6	92.4
2	@ 6" 1 <sup>st</sup> lift	Sheet #15 (5' bgs.)	4.0	109.9	120.6	90.9
3	@ 6" 2 <sup>nd</sup> lift	Sheet #32 (4½' bgs.)	3.9	108.9	120.6	90.1
4	@ 6" 2 <sup>nd</sup> lift	Sheet #9 (4½' bgs.)	3.8	114.5	120.6	94.9
5	@ 1' 3 <sup>rd</sup> lift	Sheet #45 (3' bgs.)	3.0	109.5	120.6	90.8
6	@ 1' 3 <sup>rd</sup> lift	Sheet #6 (3' bgs.)	3.5	110.5	120.6	91.6
7	@ 1' 4 <sup>th</sup> lift	Sheet #50 (2' bgs.)	4.3	110.7	120.6	91.8
8	@ 1' 4 <sup>th</sup> lift	Sheet #12 (2' bgs.)	3.9	108.5	120.6	90.0
9	@ 1' 5 <sup>th</sup> lift	Sheet #18 (1' bgs.)	4.0	109.5	120.6	90.8
10	@ 1' 5 <sup>th</sup> lift	Sheet #10 (1' bgs.)	4.1	110.3	120.6	91.5

**Remarks:**

**Material Type:**  
**Item #**

**Reported To:** Stacy Chervineky

**Min. Compaction Req. Complies:**

90%
Yes

**Submitted By:** Materials Testing Lab, Inc.

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REDO OF WATERAL IMPORT



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**Client:** Entact Environmental  
66 North Clinton Avenue  
Bay Shore, NY 11706

**Report #:** 07EE-010  
**Date:** 5/24/2007  
**Lab# :** 8180

**Project:** Key Span - NE1886  
**Sample:** NE1886-SAND-003  
**Test:** Laboratory Compaction Characteristics of Soil Using Modified Effort  
**Method:** ASTM D1557 "C"  
**Sampled By:** MTL

On 5/24/2007 DELIVERED BY: MTL

<u>% MOISTURE</u>	<u>DRY DENSITY</u>
3.7	116.6
5.1	119.8
6.2	120.6
7.8	119.7
9.3	117.1

**OPTIMUM MOISTURE**

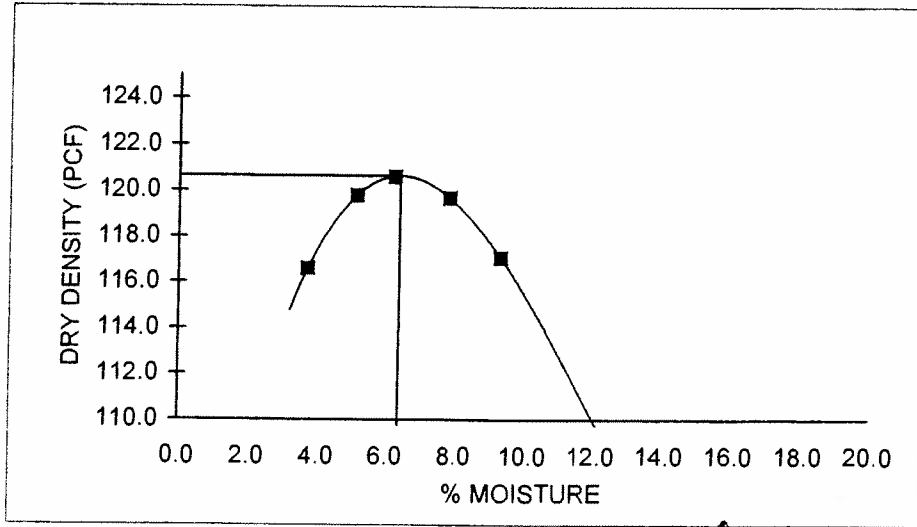
6.3 %

@

**MAXIMUM DRY DENSITY**

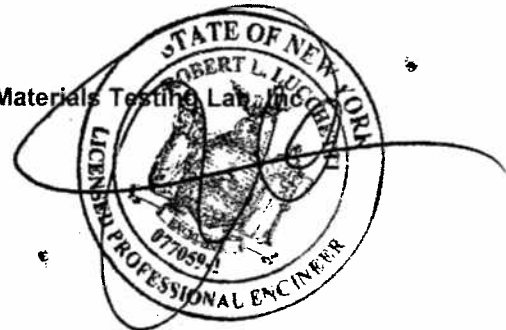
120.6

LBS./CU. FT.



Reported To:--

Submitted By: Materials Testing Lab





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**Client:** Entact Environmental  
 66 North Clinton Avenue  
 Bay Shore, NY 11706  
**Project:** ME1884

**Report #:** 07EEC-015  
**Date:** 05/24/07  
**Technician:** Chris Marro

Page 1 of 1

**NON-CONFORMANCE REPORT**

**TYPE OF INSPECTION:**

<input type="checkbox"/> Masonry	<input type="checkbox"/> Concrete Field	<input checked="" type="checkbox"/> Soil Compaction	<input type="checkbox"/> ND Asphalt
<input type="checkbox"/> Welding	<input type="checkbox"/> Bolting	<input type="checkbox"/> Decking	<input type="checkbox"/> Fireproofing
<input type="checkbox"/> Firestopping	<input type="checkbox"/> Studs	<input type="checkbox"/> Piping	
<input type="checkbox"/> Other: _____			

**DESCRIPTION OF NON-CONFORMANCE:**  
 (INDICATE REFERENCE TO APPLICABLE REQUIREMENT, IF - DRAWING SPECIFICATION, CODE OR STANDARD.)

90% compaction could not be achieved through any method in the field. A sample was taken from the stockpile for lab testing.

Reported To:

Submitted By: Materials Testing Lab, Inc

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**ENTACT**  
ENVIRONMENTAL SERVICES

### RECORD OF COMPACTION TESTING

DATE	TIME	TEST #	LIFT	LOCATION	% compaction	% Moisture	Max Dry Density	Dry Density	NOTES
06/07/07	1257	11	6	Group G sheet #25	90.4	2.5	141.6	128.0	Bin lift (Off bgs)
06/07/07	1303	12	6	Group F sheet #28	96.8	2.8	141.6	137.1	Bin lift (Off bgs)

\*Compaction requirement= 90%

\*General Location= Segment 2, sheets 5-51

\*Sheet Pile references are estimated.

\*Please Refer to Elevation table for group locations.

\*ENTACT Oversight= Stacy Chervinsky

\*Backfill= DGA Type 4 from Tilcon, Clinton Point



MATERIALS TESTING

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Client: **ENTACT**

Report #:

Date: **6-7-07**

Technician: **ROBERT VILLADICENIO**

Project: **NE 1886**

Test: **In-Place Density Test**

Method: **ASTM D2922**

Page 1 of 1

Street       Sidewalk       Other

General Location: N. CLINTON <sup>N</sup> ~~ST~~ <sup>BLVD.</sup>

Test #	Elev/Depth of Test	Specific Location	% Moisture	Dry Density (PCF)	Max. Dry Density (PCF)	% Comp.
11	6 LITE 1 FT	SHEET # 25 0 FT BGS	2.5	128.0	142.6	90.4
12	6 " 1 FT	" # 28 " " "	2.8	137.1	↓	96.8

Remarks:

Material Type:  
Item # **M.T.L.**

Reported To: **--**

Min. Compaction Req. **90%**  
Complies: **-**

Submitted By: **Materials Testing Lab, Inc.**

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**Client:** Entact Environmental  
 66 North Clinton Avenue  
 Bay Shore, NY 11706

**Report #:** 07EEC-018  
**Date:** 06/07/07  
**Technician:** Robert Villavicencio

**Project:** NE1886  
**Test:** In-Place Density Test  
**Method:** ASTM D2922

Street       Sidewalk       Other

**General Location:** North Clinton Ave. & Union Blvd.

Test #	Elev/Depth of Test	Specific Location	% Moisture	Dry Density (PCF)	Max. Dry Density (PCF)	% Comp
11	6 <sup>th</sup> Lift	Sheet #25 0' bgs.	2.5	128.0	141.6	90.4
12	6 <sup>th</sup> Lift	Sheet #28 0' bgs.	2.8	137.1	141.6	96.8

**Remarks:**

---

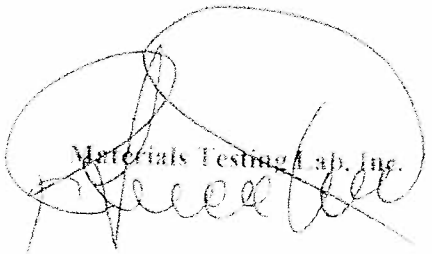
**Material Type:**  
**Item #**

Reported To:

**Min. Compaction Req. Complies:**

90%
Yes

Submitted By:

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**Client:** Entact Environmental  
66 North Clinton Avenue  
Bay Shore, NY 11706

**Report #:** 07EE-006  
**Date:** 3/26/2007  
**Lab#:** 8097

**Project:** Key Span - NE1886  
**Sample:** NE1886-DGA-001  
**Test:** Laboratory Compaction Characteristics of Soil Using Modified Effort  
**Method:** ASTM D1557 "C"

**Sampled By:** Client **On** 3/20/2007 **DELIVERED BY:** Client

<u>% MOISTURE</u>	<u>DRY DENSITY</u>
2.4	138.5
3.1	139.7
5.9	141.6
8.8	137.6
10.5	133.2

**OPTIMUM MOISTURE**

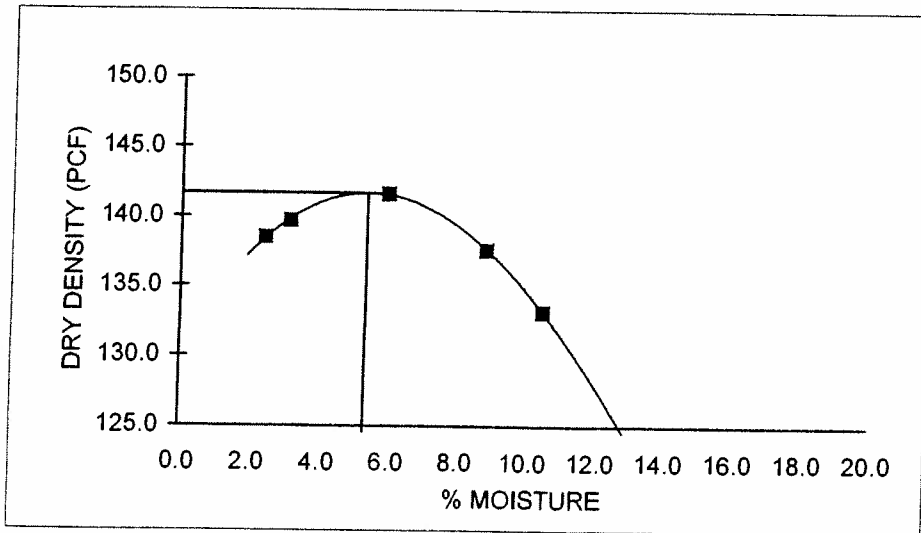
5.3 %

@

**MAXIMUM DRY DENSITY**

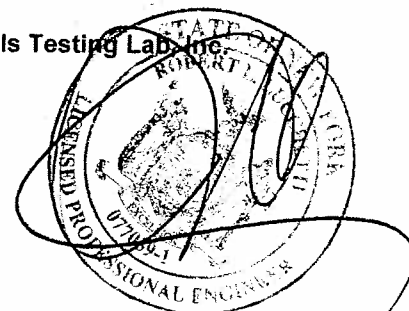
141.6

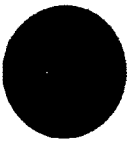
LBS./CU. FT.



**Reported To:--**

**Submitted By: Materials Testing Lab, Inc.**





**ENTACT**  
ENVIRONMENTAL SERVICES

## RECORD OF COMPACTION TESTING

DATE	TIME	TEST #	LIFT	LOCATION	% compaction	% Moisture	Max Dry Density	Dry Density	NOTES
09/04/07	--	1	1	Group H sheet #227	90.6	7.7	127.3	115.3	1ft lift (3ft bgs), lift 1
09/04/07	--	2	1	Group I sheet #257	96.2	5.1	127.3	122.4	1ft lift (3ft bgs), lift 1
09/04/07	--	3	2	Group H sheet #241	92.6	7.0	127.3	117.9	1ft lift (2ft bgs), lift 2
09/04/07	--	4	2	Group I sheet #267	90.1	6.4	127.3	114.7	1ft lift (2ft bgs), lift 2
09/04/07	--	5	1	Group J sheet #280	96.7	7.8	127.3	123.1	1ft lift (3ft bgs), lift 1
09/04/07	--	6	1	Group K sheet #300	93.6	8.2	127.3	119.2	1ft lift (3ft bgs), lift 1
09/04/07	--	7	2	Group J sheet #294	90.9	7.0	127.3	115.7	1ft lift (2ft bgs), lift 2
09/04/07	--	8	2	Group K sheet #303	93.1	6.9	127.3	118.6	1ft lift (2ft bgs), lift 2
09/04/07	--	9	3	Group H sheet #236	90.9	6.5	127.3	115.7	1ft lift (1ft bgs), lift 3
09/04/07	--	10	3	Group I sheet #252	97.3	6.9	127.3	123.8	1ft lift (1ft bgs), lift 3
09/04/07	--	11	3	Group J sheet #288	91.8	8.1	127.3	116.8	1ft lift (1ft bgs), lift 3
09/04/07	--	12	3	Group K sheet #301	94.5	8.7	127.3	120.3	1ft lift (1ft bgs), lift 3
09/04/07	--	13	4	Group H sheet #236	90.5	6.9	127.3	115.2	6in lift (6" bgs), lift 4
09/04/07	--	14	4	Group I sheet #263	93.4	7.8	127.3	119.0	6in lift (6" bgs), lift 4
09/04/07	--	15	4	Group J sheet #276	95.8	7.3	127.3	122.0	6in lift (6" bgs), lift 4
09/04/07	--	16	4	Group K sheet #302	95.4	7.0	127.3	121.4	6in lift (6" bgs), lift 4

\*Compaction requirement= 90%

\*General Location= Segment 4

\*Sheet Pile references are estimated.

\*Please Refer to Elevation table for group locations.

\*ENTACT Oversight= Stacy Chervinsky

\*Backfill= Reuse soil from Phase 1



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Client: **ENTACT**

Report #:

Date: **9-4-07**

Technician: **ROBERT VILLAVICENCIO**

Project: **NE 1886**

Test: **In-Place Density Test**

Method: **ASTM D2922**

Page **(1)**

Street  Other \_\_\_\_\_

General Location: CLINTON<sup>AV</sup> & UNION<sup>BLVD.</sup>

Test #	Elev/Depth of Test	Specific Location	% Moisture	Dry Density (PCF)	Max. Dry Density (PCF)	% Comp
1	3' BGS / 12"	L1 EAST TRENCH 4A	7.7	115.3	127.3	90.6
2	3 "	L1 " " 4A	5.1	122.4		96.2
17	2 "	L2 " " 4A	7.0	117.9		92.6
18	2 "	L2 " " 4A	6.4	114.7		90.1
13	3 "	L1 " " 4B	7.8	123.1		96.7
14	3 "	L1 " " 4B	8.2	119.2		93.6
15	2 "	L2 " " 4B	7.0	115.7		90.9
16	2 "	L2 " " 4B	6.9	118.6		93.1
17	1 "	L3 " " 4B	6.5	115.7		90.9
18	1 "	L3 " " 4B	6.9	123.8		97.3
19	1 "	L3 " " 4A	8.1	116.8		91.8
20	1 "	L3 " " 4A	8.7	120.3		94.5

Remarks: \_\_\_\_\_

Material Type: **SAND 127.3**  
 Item #

Reported To: **--**

Min. Compaction Req. **90.4**  
 Complies:

Submitted By: **Materials Testing Lab, Inc.**

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Client: **ENTACT**

Report #: \_\_\_\_\_  
 Date: **9-4-07**  
 Technician: **ROBERT VILLANOVENCIO**

Project: **ME 1886**  
 Test: **In-Place Density Test**  
 Method: **ASTM D2922**

Page **(2)**

Street  Other \_\_\_\_\_  
 General Location: **CLINTON<sup>20</sup> / UNILON<sup>20</sup> BLVD**

Test #	Elev/Depth of Test	Specific Location	% Moisture	Dry Density (PCF)	Max. Dry Density (PCF)	% Comp
21	0 BGS / 12"	L4 EAST TRENCH 4B	6.9	115.2	127.3	90.5
22	0 " ↓	L4 " " 4B	7.8	119.0	↓	93.4
23	0 " ↓	L4 " " 4A	7.3	122.0	↓	95.8
24	0 " ↓	L4 " " 4A	7.0	121.4	↓	95.4

Remarks: \_\_\_\_\_

Material Type: \_\_\_\_\_  
 Item # \_\_\_\_\_

Reported To: \_\_\_\_\_

Min. Compaction Req. **90%**  
 Complies:

Submitted By: **Materials Testing Lab, Inc.**

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**Client:** Entact Environmental  
 66 North Clinton Avenue  
 Bay Shore, NY 11706  
**Project:** ~~NE7037~~ NE1886  
**Test:** In-Place Density Test  
**Method:** ASTM D2922

**Report #:** 07EEC-012  
**Date:** 09/04/07  
**Technician:** Robert V.  
**Work order #:** 107473

Street                       Sidewalk                       Other \_\_\_\_\_

**General Location:** Clinton Ave. & Union Blvd.

Test #	Elev/Depth of Test	Specific Location	% Moisture	Dry Density (PCF)	Max. Dry Density (PCF)	% Comp
9	@ 3' below grade	L1 E/ trench 4A	7.7	115.3	127.3	90.6
10	@ 3' below grade	L1 E/ trench 4A	5.1	122.4	127.3	96.2
11	@ 2' below grade	L2 E/trench 4A	7.0	117.9	127.3	92.6
12	@ 2' below grade	L2 E/trench 4A	6.4	114.7	127.3	90.1
13	@ 3' below grade	L1 E/trench 4B	7.8	123.1	127.3	96.7
14	@ 3' below grade	L1 E/trench 4B	8.2	119.2	127.3	93.6
15	@ 2' below grade	L2 E/trench 4B	7.0	115.7	127.3	90.9
16	@ 2' below grade	L2 E/trench 4B	6.9	118.6	127.3	93.1
17	@ 1' below grade	L3 E/trench 4B	6.5	115.7	127.3	90.9
18	@ 1' below grade	L3 E/trench 4B	6.9	123.8	127.3	97.3
19	@ 1' below grade	L3 E/trench 4A	8.1	116.8	127.3	91.8
20	@ 1' below grade	L3 E/trench 4A	8.7	120.3	127.3	94.5

**Remarks:** \_\_\_\_\_

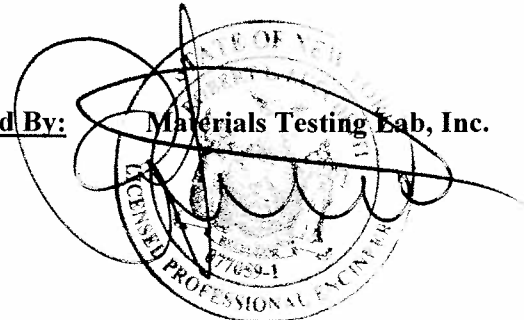
**Material Type:** Sand  
**Item #**

**Reported To:** Stacy C.

**Min. Compaction Req. Complies:**

90%
Y

**Submitted By:** Materials Testing Lab, Inc.



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**Client:** Entact Environmental  
 66 North Clinton Avenue  
 Bay Shore, NY 11706  
**Project:** ~~NE7037~~ NE1886  
**Test:** In-Place Density Test  
**Method:** ASTM D2922

**Report #:** 07EEC-012  
**Date:** 09/04/07  
**Technician:** Robert V.  
**Work order #:** 107473

Street                       Sidewalk                       Other \_\_\_\_\_

**General Location:** Clinton Ave. & Union Blvd.

Test #	Elev/Depth of Test	Specific Location	% Moisture	Dry Density (PCF)	Max. Dry Density (PCF)	% Comp
21	@ Grade	L4 E/trench 4B	6.9	115.2	127.3	90.5
22	@ Grade	L4 E/trench 4B	7.8	119.0	127.3	93.4
23	@ Grade	L4 E/trench 4A	7.3	122.0	127.3	95.8
24	@ Grade	L4 E/trench 4A	7.0	121.4	127.3	95.4

**Remarks:** \_\_\_\_\_

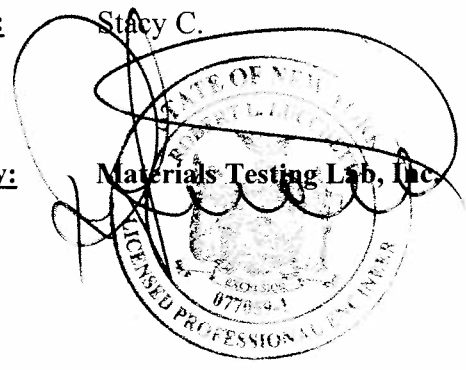
**Material Type:** Sand  
**Item #**

**Min. Compaction Req. Complies:**

95%
Y

**Reported To:** Stacy C.

**Submitted By:** Materials Testing Lab, Inc.



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REUSE



**Materials Testing Lab Inc.**  
NY Metropolitan Regional Office / Corporate Headquarters  
145 Sherwood Avenue, Farmingdale, New York 11735  
Phone (631) 815-1900 • Fax (631) 815-1901 • www.materials-testing.com

**Client:** Entact Environmental  
66 North Clinton Avenue  
Bay Shore, NY 11706

**Report #:** 07EE-019  
**Date:** 7/20/2007  
**Lab# :** 8283

**Project:** Key Span - NE1886  
**Sample:** NE1886-SOIL-06  
**Test:** Laboratory Compaction Characteristics of Soil Using Modified Effort  
**Method:** ASTM D1557 "C"  
**Sampled By:** Client

On 7/19/2007 **DELIVERED BY:** Client

<u>% MOISTURE</u>	<u>DRY DENSITY</u>
5.5	126.0
7.9	127.3
10.5	125.4
12.3	123.2
15.1	118.5

**OPTIMUM MOISTURE**

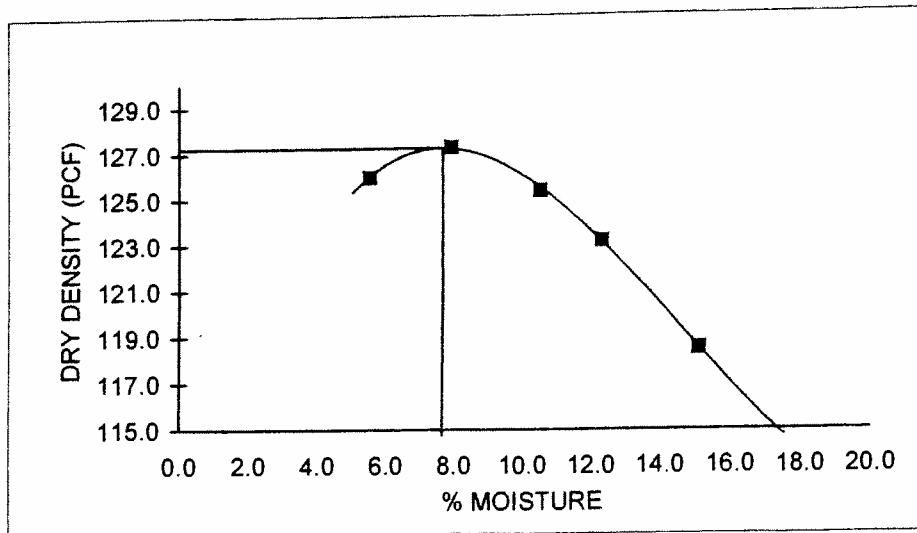
7.6 %

@

**MAXIMUM DRY DENSITY**

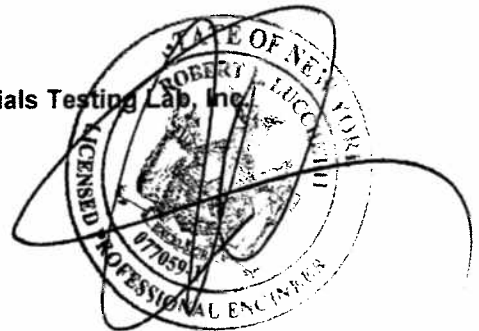
127.3

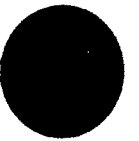
LBS./CU. FT.



**Reported To:--**

**Submitted By: Materials Testing Lab, Inc.**





**ENTACT**  
ENVIRONMENTAL SERVICES

## RECORD OF COMPACTION TESTING

DATE	TIME	TEST #	LIFT	LOCATION	% compaction	% Moisture	Max Dry Density	Dry Density	NOTES
09/19/07	--	1	1	Group M sheet #207	94.5	6.8	127.3	120.2	1ft lift (3ft bgs), lift 1
09/19/07	--	2	1	Group L sheet #179	93.4	7.0	127.3	118.2	1ft lift (3ft bgs), lift 1
09/19/07	--	3	2	Group M sheet #213	93.3	7.9	127.3	118.7	1ft lift (2ft bgs), lift 2
09/19/07	--	4	2	Group L sheet #189	92.2	7.5	127.3	117.1	1ft lift (2ft bgs), lift 2
09/19/07	--	5	3	Group M sheet #197	92.4	6.7	127.3	117.6	1ft lift (1ft bgs), lift 3
09/19/07	--	6	3	Group L sheet #202	93.0	6.5	127.3	118.3	1ft lift (1ft bgs), lift 3
09/19/07	--	7	4	Group M sheet #183	95.5	7.8	127.3	121.5	6in lift (6" bgs), lift 4
09/19/07	--	8	4	Group L sheet #210	94.1	6.9	127.3	119.7	6in lift (6" bgs), lift 4

\*Compaction requirement= 90%

\*General Location= Segment 3

\*Sheet Pile references are estimated.

\*Please Refer to Elevation table for group locations.

\*ENTACT Oversight= Stacy Chevinsky

\*Backfill= Reuse

Client: ENTACT ENVIRONMENTAL ASSOCI.

Report #: 1

Date: 09-19-2007

Technician: ALBERTO HERNANDEZ

Project: KEY SPAN-NE 1886

Test: In-Place Density Test

Method: ASTM D2922

Street       Sidewalk       Other

General Location: 66 NORTH CLINTON AVE. Bay Shore LI

Test #	Elev/Depth of Test	Specific Location	% Moisture	Dry Density (PCF)	Max. Dry Density (PCF)	% Comp
1	1 <sup>st</sup> lift elevation	Group. M Segment 3 street # 207	6.8	120.2	127.3	94.5
2	" "	L 179	7.0	118.2		93.4
3	2 <sup>nd</sup> lift elevation	M 213	7.9	118.7		93.3
4	" "	L 189	7.5	117.1		92.2
5	3 <sup>rd</sup> lift elevation	L 197	6.7	117.6		92.4
6	" "	M 202	6.5	118.3		93.0
7	4 <sup>th</sup> lift elevation	L 183	7.8	121.5		95.5
8	" "	M 210	6.9	119.7		94.1

Remarks: Minimum Compaction Request by customer, 90%

Material Type: Sand  
Item #

Reported To: -- STACY

Min. Compaction Req. 90%  
Complies: -

Submitted By: Materials Testing Lab, Inc.

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**Client:** Entact Environmental  
 66 North Clinton Avenue  
 Bay Shore, NY 11706  
**Project:** NE1886  
**Test:** In-Place Density Test  
**Method:** ASTM D2922

**Report #:** 07EEC-020  
**Date:** 09/19/07  
**Technician:** Alberto Herrera  
**Work order #:** 109336

Street       Sidewalk       Other Parking lot

**General Location:** North section

Test #	Elev/Depth of Test	Specific Location	% Moisture	Dry Density (PCF)	Max. Dry Density (PCF)	% Comp
1	1 <sup>st</sup> lift elevation		6.8	120.2	127.3	94.5
2	1 <sup>st</sup> lift elevation		7.0	118.2	127.3	93.4
3	2 <sup>nd</sup> lift elevation		7.9	118.7	127.3	93.3
4	2 <sup>nd</sup> lift elevation		7.5	117.1	127.3	92.2
5	3 <sup>rd</sup> lift elevation		6.7	117.6	127.3	92.4
6	3 <sup>rd</sup> lift elevation		6.5	118.3	127.3	93.0
7	4 <sup>th</sup> lift elevation		7.8	121.5	127.3	95.5
8	4 <sup>th</sup> lift elevation		6.9	119.7	127.3	94.1

**Remarks:**

---

**Material Type:** Sand  
**Item #**

**Reported To:** Stacy Chervincky

**Min. Compaction Req. Complies:**

90%
Y

**Submitted By:**  Materials Testing Lab, Inc.

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**Report #:** 07EE-019  
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<u>% MOISTURE</u>	<u>DRY DENSITY</u>
5.5	126.0
7.9	127.3
10.5	125.4
12.3	123.2
15.1	118.5

**OPTIMUM MOISTURE**

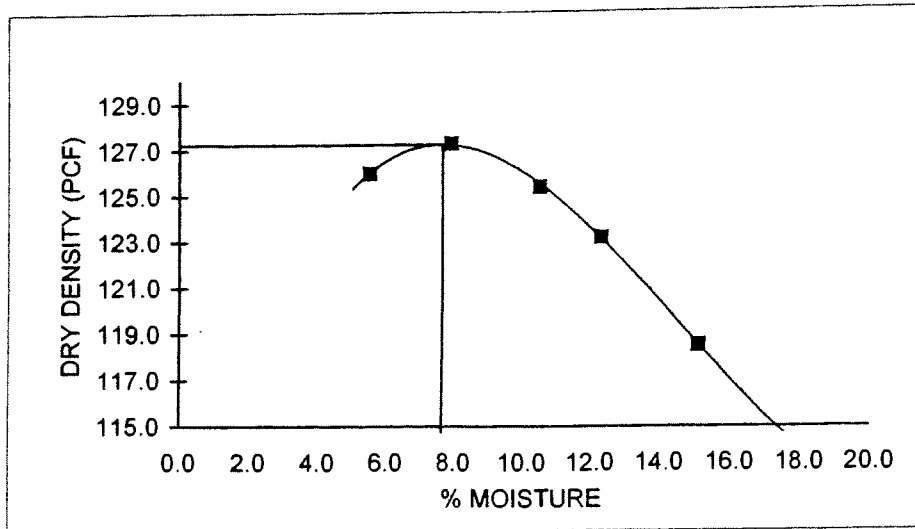
7.6 %

@

**MAXIMUM DRY DENSITY**

127.3

LBS./CU. FT.



**Reported To:--**

**Submitted By: Materials Testing Lab, Inc.**

