

L&G Engineering Laboratory

Construction Material Testing
Geotechnical Engineering

June 25, 2014

JUL 03 2014
BY: *[Signature]*

Commissioner Joseph Palacios
Attn: Maria "LuLu" Lucio
Hidalgo County, Pct. #4
1102 N. Doolittle Rd.
Edinburg, Texas 78539

RE: Sunflower Park ONSITE

Dear Ms. Lucio:

Included for your use with this letter are test reports **R009 & R010** for **Construction Material Testing** performed on the above referenced project.

L&G Engineering Laboratory appreciates the opportunity to serve your material testing needs on this project and we look forward to working with you in the future.

If you have any questions, feel free to contact me at 956-565-0760.

Sincerely,

Ricardo A. Gil
General Manager

Attachments

CC: Mata García Architects, LLP
CAS Companies, LP

RECEIVED
JUN 26 2014
BY: *Maria Lucio*

RECEIVED
 JUL 03 2014

**PROCTOR
 TEST REPORT**

Project Description: Sunflower Park ONSITE
 Client: Hidalgo County Pct. #4
 Architect: Mata Garcia Architects, LLP
 Contractor: CAS Companies, LP

L&G Project Number: L1301402
 L&G Report Number: R009
 Sample Date: 06/16/2014
 Date Reported: 06/16/2014

Client PO: 707018

Page 1 of 1

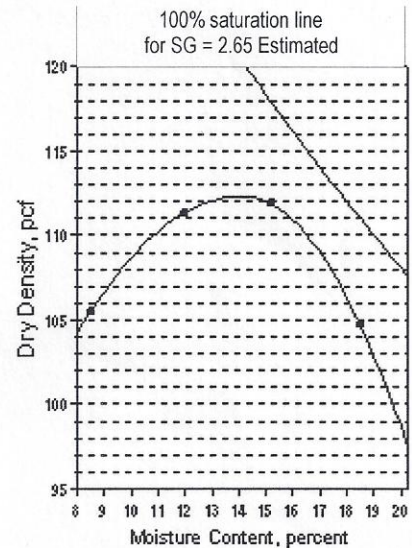
Compaction Method: ASTM D-698
 Material Description: Select Fill

Specific Gravity: 2.65

Liquid Limit: 30
 Plastic Limit: 15
 Plasticity Index: 15
 % Passing No. 200: 34
 Group Symbol: SC

Specimen No.:	1	2	3	4
Moisture, %:	8.6	12.1	15.2	18.5
Dry Density (pcf):	105.7	111.3	111.9	104.7

Maximum Dry Density in P.C.F.: 112.3
 Optimum Moisture (%): 14.1



Remarks: Sampled at jobsite (Stockpile)
 Test Method: ASTM D-698 Method-A, ASTM D-4318, ASTM D-1140

Orig: Hidalgo County Pct. #4 (Gen.) (Hidalgo County Pct. #4)
 (Edinburg, TX) Attn: Maria (LuLu) Lucio
 (1-cc copy)
 1-cc Mata Garcia Architects, LLP
 Attn: Hector Rene Garcia
 1-cc CAS Companies, LP Attn: Connie Bearden
 1-cc Laboratory

Respectfully Submitted,
 L&G Engineering Laboratory

Ricardo A. Gil

Ricardo A. Gil, Lab Manager

RECEIVED
JUL 03 2014

Celia Almaguer

From: María Lucio [maria.lucio@co.hidalgo.tx.us]
Sent: Friday, June 13, 2014 4:01 PM
To: Rick Gil; Celia Almaguer
Cc: Roman Rodriguez; Steven Cruz; Jimmy Anthony; Hector R. Garcia; Connie Bearden
Subject: Testing for Sunflower Park On-Site
Importance: High

BY: *RL*

Good Afternoon,

2009

We would like to request a select fill proctor pick for Monday, June 16th in the morning. The testing is for Sunflower Park On-Site (Playground Area). Precinct 4 staff will be present as well, thank you!

Sincerely,
Maria (Lulu) Lucio
Program Manager
Hidalgo County Precinct #4
Ph:956-292-7000 Ext. 4026
Fax:956-381-5905
maria.lucio@co.hidalgo.tx.us

Roman Rodriguez
ROMAN RODRIGUEZ



L&G Engineering Laboratory

Construction Material Testing
Geotechnical Engineering

2100 W. Expressway 83
900 S. Stewart Rd. Ste. 6
3388 US Hwy 277

Mercedes, TX 78570 (956) 565-0760
Mission, TX 78572 (956) 583-7117
Carrizo Springs, TX (888) 565-9813

RECEIVED
JUL 03 2014

BY: *[Signature]*

FIELD DENSITIES TEST REPORT

Project Description: Sunflower Park ONSITE
Client: Hidalgo County Pct. #4
Architect: Mata Garcia Architects, LLP
Contractor: CAS Companies, LP

L&G Project Number: L1301402
L&G Report Number: R010
Sample Date: 06/20/2014
Date Reported: 06/20/2014

Client PO: 707018

Page 1 of 1

Material Description	Select Fill		
Required % Proctor	95	Moisture Tolerance	-2+3
	Proctor No	Optimum % Moisture	Opt. Density, LB/CF
	SLF MD3	14.1	112.3

Test No.	Test Location	Proctor No	Moisture Content	Dry Density	Percent Compaction	Depth (inch)
1	50ft N x 10ft w from SE Corner 1st Lift	SLF MD3	12.2%	107.9 pcf	96.1% (Pass)	6"
2	50ft S x 15ft E from NW Corner 1st Lift	SLF MD3	12.8%	107.2 pcf	95.5% (Pass)	6"

Remarks: Test results are in general compliance with the project specifications except as noted.
Test Methods: ASTM D2922, D3017

Orig: Hidalgo County Pct. #4 (Gen.) (Hidalgo County Pct. #4)
(Edinburg, TX) Attn: Maria (LuLu) Lucio
(1-cc copy)
1-cc Mata Garcia Architects, LLP
Attn: Hector Rene Garcia
1-cc CAS Companies, LP Attn: Connie Bearden
1-cc Laboratory

Respectfully Submitted,
L&G Engineering Laboratory

[Signature]

Ricardo A. Gil, Lab Manager

Celia Almaguer

RECEIVED
JUL 03 2014

From: Maria Lucio [maria.lucio@co.hidalgo.tx.us]
Sent: Thursday, June 19, 2014 4:30 PM
To: Rick Gil; Celia Almaguer
Cc: "Roman Rodriguez"
Subject: Fwd: Re: Sunflower Park Playground Pad Site

BY: *[Signature]*

Please see Roman's request below for compaction testing tomorrow. Please schedule with him I will be out of the office tomorrow but you can email and call him to confirm.

Sincerely,
Maria (Lulu) Lucio
Program Manager
Hidalgo County Precinct #4
Ph:956-292-7000 Ext. 4026
Fax:956-381-5905
maria.lucio@co.hidalgo.tx.us

----- Forwarded Message -----

From: Roman Rodriguez <roman.rodriguez@co.hidalgo.tx.us>
To: Maria Lucio <maria.lucio@co.hidalgo.tx.us>
Sent: Thu, 19 Jun 2014 16:09:20 -0500 (CDT)
Subject: Re: Sunflower Park Playground Pad Site

RO10

And if you do. Have the proctor # can we get a tech out to the site tomorrow afternoon at 3:00pm for compaction testing (6/20/14)

Sent from my iPhone

> On Jun 19, 2014, at 4:06 PM, Maria Lucio <maria.lucio@co.hidalgo.tx.us> wrote:

>
>

> Good Afternoon,

>

> Roman is requesting the proctor number for the sample taken can some one please call him to provide this information. His number is 219-6270. Thank you!

>

> Sincerely,

> Maria (Lulu) Lucio

> Program Manager

> Hidalgo County Precinct #4

> Ph:956-292-7000 Ext. 4026

> Fax:956-381-5905

> maria.lucio@co.hidalgo.tx.us

Select Fill Field Density Test

Roman Rodriguez

L&G Engineering Laboratory

Construction Material Testing Geotechnical Engineering

INVOICE
Invoice Date: 06/26/2014
Invoice No: 14-6-000029

Page 1 of 2

RECEIVED
JUL 03 2014
BY: *VZ*

2100 W. Expressway 83
Mercedes, TX 78570
Office (956) 565-0760 Fax (956) 565-6746

Client Address: Hidalgo County Pct. #4
1102 N. Doolittle Rd.
Edinburg, TX. 78539

Account No.: L130
Project No: L1301402
Project Desc.: Sunflower Park ONSITE

Due Date: UPON RECEIPT
Budget/Remaining: \$23,853.69 / \$20,056.86
PO: 707018

===== Invoice Summary by Billing Code =====

	<u>Unit Rate</u>	<u>Qty</u>	<u>Extension</u>
910:91004 - Atterberg Limits Det	\$78.48	1.00 ✓	\$78.48
910:91006 - Materials Finer #200	\$65.49	1.00 ✓	\$65.49
910:91009 - M-D ASTM D698 (Standard Proctor) (each)	\$202.78	1.00 ✓	\$202.78
910:91011 - Field Density (Nuclear Method)	\$23.56	2.00 ✓	\$47.12
940:94048 - Eng. Tech. (Soils / SP.)	\$47.14	5.00 ✓	\$235.70
940:94054 - Engineering Specialist	\$117.75	0.75 ✓	\$88.32
940:94055 - Engineer / P.E.	\$157.08	0.75 ✓	\$117.81
950:95058 - Vehicle Trip Charge	\$0.52	50.00 ✓	\$26.00
950:95061 - Test Report	\$23.24	2.00 ✓	\$46.48
Total for this Invoice:			\$908.18

===== Invoice Detail by Report =====

<u>Report No.</u>	<u>Sampled</u>	<u>Qty</u>	<u>Billing Code</u>	<u>Unit Type</u>	<u>Unit Rate</u>	<u>Extension</u>
R009	06/16/2014	1.00	910:91004 - Atterberg Limits Det	Each	\$78.48	\$78.48
R009	06/16/2014	1.00	910:91006 - Materials Finer #200	Each	\$65.49	\$65.49
R009	06/16/2014	1.00	910:91009 - M-D ASTM D698 (Standard Proctor) (each)	Each	\$202.78	\$202.78
R009	06/16/2014	3.00	940:94048 - Eng. Tech. (Soils / SP.)	Hour	\$47.14	\$141.42
R009	06/16/2014	0.50	940:94054 - Engineering Specialist	Hour	\$117.75	\$58.88
R009	06/16/2014	0.50	940:94055 - Engineer / P.E.	Hour	\$157.08	\$78.54
R009	06/16/2014	25.00	950:95058 - Vehicle Trip Charge	Mile	\$0.52	\$13.00
R009	06/16/2014	1.00	950:95061 - Test Report	Each	\$23.24	\$23.24
Report Number R009 for a Subtotal of:						\$661.83

REMIT TO: 2100 W. Expressway 83
Mercedes, TX 78570
Office (956) 565-0760 Fax (956) 565-6746

Net 30 Days

PAST DUE BALANCES SUBJECT TO 1.5% SERVICE CHARGE PER MONTH
PLEASE REFERENCE INVOICE NUMBER WITH PAYMENT

L & G Engineering Laboratory

Construction Material Testing Geotechnical Engineering

INVOICE
 Invoice Date: 06/26/2014
 Invoice No: 14-6-000029

Page 2 of 2


2100 W. Expressway 83
 Mercedes, TX 78570
 Office (956) 565-0760 Fax (956) 565-6746

RECEIVED
 JUL 03 2014
 BY: 

===== Invoice Detail by Report =====

<u>Report No.</u>	<u>Sampled</u>	<u>Qty</u>	<u>Billing Code</u>	<u>Unit Type</u>	<u>Unit Rate</u>	<u>Extension</u>
R010	06/20/2014	2.00	910:91011 - Field Density (Nuclear Method)	Each	\$23.56	\$47.12
R010	06/20/2014	2.00	940:94048 - Eng. Tech. (Soils / SP.)	Hour	\$47.14	\$94.28
R010	06/20/2014	0.25	940:94054 - Engineering Specialist	Hour	\$117.75	\$29.44
R010	06/20/2014	0.25	940:94055 - Engineer / P.E.	Hour	\$157.08	\$39.27
R010	06/20/2014	25.00	950:95058 - Vehicle Trip Charge	Mile	\$0.52	\$13.00
R010	06/20/2014	1.00	950:95061 - Test Report	Each	\$23.24	\$23.24
Report Number R010 for a Subtotal of:						\$246.35
Total for this Invoice:						\$908.18

4-1100-452-00-124-009-0-339
 Pct. # 311
 Pur. Req. # 253667
 P.O. # 707018

Invoice Received By:  on 7/3/14
 Goods/Services Received By: _____ on _____

REMIT TO: 2100 W. Expressway 83
 Mercedes, TX 78570
 Office (956) 565-0760 Fax (956) 565-6746

Net 30 Days

PAST DUE BALANCES SUBJECT TO 1.5% SERVICE CHARGE PER MONTH
 PLEASE REFERENCE INVOICE NUMBER WITH PAYMENT

Attachment "D"
L&G Engineering Laboratory, LLC
Sunflower Park ONSITE
Prepared for Hidalgo County Precinct No. 4

<i>In-Situ Soils/Select Fill/Trench Backfill/Testing-Laboratory-Building Slab Subgrade</i>					
Standard Proctor	5	Ea.	\$202.78	\$1,013.90	
Atterberg Limits of Soils	6	Ea.	\$78.48	\$470.88	
Material Finer #200	6	Ea.	\$65.49	\$392.94	
Test Report	5	Ea.	\$23.24	\$116.20	
Technician (Soils)	20	Hr.	\$47.14	\$942.80	
Mileage (Trip Charge)	125	Mi.	\$0.52	\$65.00	
			Subtotal:	\$3,001.72	
<i>In-Situ Soils/Select Fill/Trench Backfill/Testing-Field-Building Subgrade</i>					
Field Density Test	48	Ea.	\$23.56	\$1,130.88	
Test Report	16	Ea.	\$23.24	\$371.84	
Technician (Soils)	32	Hr.	\$47.14	\$1,508.48	
Mileage (Trip Charge)	200	Mi.	\$0.52	\$104.00	
			Subtotal:	\$3,115.20	<i>Quantities Based on 8 Visits to Project To perform testing</i>
<i>Base Material/Parking Area-Laboratory</i>					
Standard Proctor	1	Ea.	\$202.78	\$202.78	
Atterberg Limits of Soils	1	Ea.	\$78.48	\$78.48	
Sieve Analysis	1	Ea.	\$58.85	\$58.85	
Technician (Soils)	3	Hr.	\$47.14	\$141.42	
Mileage (Trip Charge)	25	Mi.	\$0.52	\$13.00	
Texas Wet Ball Mill	1	Ea.	\$58.85	\$58.85	
Test Report	2	Ea.	\$23.24	\$46.48	
			Subtotal:	\$599.86	
<i>Base Material/Parking Area-Field Testing and Monitoring</i>					
Field Density Test	8	Ea.	\$23.56	\$188.48	
Test Report	2	Ea.	\$23.24	\$46.48	
Technician (Soils)	6	Hr.	\$47.14	\$282.84	
Mileage (Trip Charge)	50	Mi.	\$0.52	\$26.00	
			Subtotal:	\$543.80	
<i>Concrete Placement-Floor Slabs-Main Canopy-Restrooms-Sidewalks-Curb & Gutter</i>					
Air Content(Pressure Method)	14	Ea.	\$23.51	\$329.14	
Test Report	14	Ea.	\$23.24	\$325.36	
Technician (Concrete)	35	Hr.	\$60.18	\$2,106.30	
Mileage (Trip Charge)	350	Mi.	\$0.52	\$182.00	
			Subtotal:	\$2,942.80	<i>assuming 14 site visits</i>
Cyl. Spec. Prep, Hold, Cure	56	Ea.	\$11.83	\$662.48	
Comp. Str. Of Cyl. Specimen	56	Ea.	\$15.68	\$878.08	
Test Reports (7 and 28 day)	28	Ea.	\$23.24	\$650.72	
Technician (Concrete)	50	Hr.	\$60.18	\$3,009.00	
Mileage (Trip Charge)	350	Mi.	\$0.52	\$182.00	
			Subtotal:	\$5,382.28	<i>cyl pickup lab testing</i>

Asphalt Paving-Parking Area					
Asphalt Rolling Patterns	4	Ea.	\$39.27	\$157.08	
Extraction/Sieve Analysis/Ac Cont	1	Ea.	\$229.04	\$229.04	
Density of Asph Cores	3	Ea.	\$71.96	\$215.88	
Pavement Thickness	4	Ea.	\$87.14	\$348.56	
Test Reports	4	Ea.	\$23.24	\$92.96	
Technician (Asphalt)	8	Hr.	\$60.18	\$481.44	
Mileage (Trip Charge)	75	Mi.	\$0.52	\$39.00	
			Subtotal:	<u>\$1,563.96</u>	
Welding and Bolt Torque Inspection					
Engineering Specialist	9	Ea.	\$117.75	\$1,059.75	<i>Assuming 3 Visits to perform Welding and Bolt Torque Inspection</i>
Mileage (Trip Charge)	150	Mi.	\$0.52	\$78.00	
Test Report	3	Ea.	\$23.24	\$69.72	
			Subtotal:	<u>\$1,207.47</u>	

Estimated Field and Laboratory Test Fees				\$18,357.09
Engineering Specialist (Report Review)(Hr.)	20	\$117.75		\$2,355.00
Engineer-Principal (Report Review)(Hr.)	20	\$157.08		\$3,141.60
Estimated Materials Testing Total				<u>\$23,853.69</u>