



INVOICE

RECEIVED
JUN 18 2014
BY: *VL*

1506 Mid Cities Dr.
Pharr, TX 78577
956-283-8254

Project Mgr: Juan Borjon

Project: Mile 17.5 (btwn Ware Rd and West R.O.W. of HCID#1)
Mile 17.5 between Ware and Rooth Road
Edinburg, TX 78539

To: Hidalgo County
Attn: Maria Lucio
1051 N. Doolittle Rd.
Hidalgo County Precinct #4
Edinburg, TX 78542

REMIT TO:
Invoice Number: T520948
Terracon Consultants, Inc.
PO Box 843358
Kansas City, MO 64184-3358
Federal E.I.N.: 42-1249917

P.O. Number: 705563

Project Number:	88141019
Invoice Date:	5/19/2014
Services Through:	3/22/2014

Date	Report	Description of Services	Quantity	Rate	Total
3/7/14	88141019.0001	Engineering Technician, hour	3.00	\$43.00	\$129.00
3/7/14	88141019.0001	Trip Charge/Vehicle Charge, each	1.00	\$20.00	\$20.00
3/7/14	88141019.0001	Atterberg Limit, per test	1.00	\$60.00	\$60.00
3/7/14	88141019.0001	Sieve Analysis (Washed), per test	1.00	\$60.00	\$60.00
3/7/14	88141019.0001	Standard Proctor 4" or 6" mold, each	1.00	\$200.00	\$200.00
3/7/14	88141019.0002	Atterberg Limit, per test	1.00	\$60.00	\$60.00
3/7/14	88141019.0002	Sieve Analysis (Washed), per test	1.00	\$60.00	\$60.00
3/7/14	88141019.0002	Standard Proctor 4" or 6" mold, each	1.00	\$200.00	\$200.00

Invoice Total \$789.00

4-1200431-00-124 142-0-841
Pct. # 139 731
Pur. Req. # 251254
P.O. # 705563

Invoice Received By: [Signature] on 6/18/14
Goods/Services Received By: _____ on _____

Zimbra

Fwd: Testing @ mile 17 1/2 Project.

From : Maria Lucio <maria.lucio@co.hidalgo.tx.us>

Thu, Mar 06, 2014 01:03 PM

Subject : Fwd: Testing @ mile 17 1/2 Project.**To :** Juan M Borjon <jmborjon@terracon.com>, Jorge A. Flores <jaflores@terracon.com>**Cc :** Steven Cruz <steven.cruz@co.hidalgo.tx.us>, Roman Rodriguez <roman.rodriguez@co.hidalgo.tx.us>, jaime salazar <jaime.salazar@hcdd1.org>, g g <g.g@hcdd1.org>, ismael marroquin <ismael.marroquin@hcdd1.org>

Good Afternoon Gentlemen,

We would like to request that you take a proctor sample tomorrow, if you could please let me know what time you will be on the project site I would greatly appreciate it. Should you have any questions please let me know, 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

From: "Ismael Marroquin" <ismael.marroquin@hcdd1.org>**To:** "maria lucio" <maria.lucio@co.hidalgo.tx.us>, "Roberto Deleon" <robert.deleon@hcdd1.org>, "Rogelio Quintero" <roy.quintero@hcdd1.org>**Sent:** Thursday, March 6, 2014 10:16:43 AM**Subject:** Testing @ mile 17 1/2 project. Please make arrangements to proceed with tierracon. We are ready to comence backfilling of the old ditch. Awaiting to here from you. Thanks

Mike Marroquin
Construction Supervisor
Hidalgo County Drainage District 1



INVOICE

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'JUN 18 2014
BY: *RZ*

1506 Mid Cities Dr.
Pharr, TX 78577
956-283-8254

Project Mgr: Juan Borjon

Project: Mile 17.5 (btwn Ware Rd and West R.O.W. of HCID#1)
Mile 17.5 between Ware and Rooth Road
Edinburg, TX 78539

To: Hidalgo County
Attn: Maria Lucio
1051 N. Doolittle Rd.
Hidalgo County Precinct #4
Edinburg, TX 78542

REMIT TO:
Invoice Number: T520955
Terracon Consultants, Inc.
PO Box 843358
Kansas City, MO 64184-3358
Federal E.I.N.: 42-1249917

P.O. Number: 705563

Project Number:	88141019
Invoice Date:	5/19/2014
Services Through:	4/19/2014

Date	Report	Description of Services	Quantity	Rate	Total
4/10/14	88141019.0003	Project Manager, per hour	0.25	\$90.00	\$22.50
4/10/14	88141019.0003	Engineering Technician, hour	3.00	\$43.00	\$129.00
4/10/14	88141019.0003	Trip Charge/Vehicle Charge, each	1.00	\$20.00	\$20.00
4/10/14	88141019.0003	Nuclear Density, per test	6.00	\$12.00	\$72.00
4/17/14	88141019.0004	Project Manager, per hour	0.25	\$90.00	\$22.50
4/17/14	88141019.0004	Engineering Technician, hour	3.00	\$43.00	\$129.00
4/17/14	88141019.0004	Trip Charge/Vehicle Charge, each	1.00	\$20.00	\$20.00
4/17/14	88141019.0004	Nuclear Density, per test	6.00	\$12.00	\$72.00

Invoice Total \$487.00

4-1200431-00-124142-0-841
 Pct. # 139 731
 Pur. Req. # 251254
 P.O. # 705563

Invoice Received By: [Signature] on 6/18/14
 Goods/Services Received By: _____ on _____



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RECEIVED
'JUN 18 2014
BY: *VL*

1506 Mid Cities Dr.
Pharr, TX 78577
956-283-8254

Project Mgr: Juan Borjon

Project: Mile 17.5 (btwn Ware Rd and West R.O.W. of HCID#1)
Mile 17.5 between Ware and Rooth Road
Edinburg, TX 78539

To: Hidalgo County
Attn: Maria Lucio
1051 N. Doolittle Rd.
Hidalgo County Precinct #4
Edinburg, TX 78542

REMIT TO:
Invoice Number: T520976
Terracon Consultants, Inc.
PO Box 843358
Kansas City, MO 64184-3358
Federal E.I.N.: 42-1249917

P.O. Number: 705563

Project Number:	88141019
Invoice Date:	5/19/2014
Services Through:	5/17/2014

Date	Report	Description of Services	Quantity	Rate	Total
4/25/14	88141019.0005	Project Manager, per hour	0.25	\$90.00	\$22.50
4/25/14	88141019.0005	Engineering Technician, hour	3.00	\$43.00	\$129.00
4/25/14	88141019.0005	Trip Charge/Vehicle Charge, each	1.00	\$20.00	\$20.00
4/25/14	88141019.0005	Nuclear Density, per test	6.00	\$12.00	\$72.00

Invoice Total \$243.50

4-1200431-00-124-1420-841
Pct. # 139 739
Pur. Req. # 251254
P.O. # 705563

Invoice Received By: *[Signature]* on 6/18/14
Goods/Services Received By: _____ on _____

Zimbra

RE: Laboratory Compaction Characteristics Of Soil Report : Mile 17.5 (btwn Ware Rd and West R.O.W. of HCID#1) (88141019.0002)

From : Juan M Borjon <jmborjon@terracon.com>

Thu, Apr 10, 2014 11:58 AM

Subject : RE: Laboratory Compaction Characteristics Of Soil Report : Mile 17.5 (btwn Ware Rd and West R.O.W. of HCID#1) (88141019.0002)

To : Maria Lucio <maria.lucio@co.hidalgo.tx.us>

Cc : Raul Sesin <raul.sesin@co.hidalgo.tx.us>, ismael marroquin <ismael.marroquin@hcdd1.org>, Steven Cruz <steven.cruz@co.hidalgo.tx.us>, Roman Rodriguez <roman.rodriguez@co.hidalgo.tx.us>, raul sesin <raul.sesin@hchd.org>, g g <g.g@hcdd1.org>

The test has been scheduled for 2:00 PM today. An engineering technician will be at the project site located at Ware Road and Mile 9. Please confirm if that is the correct location. Thanks!

From: Maria Lucio [mailto:maria.lucio@co.hidalgo.tx.us]

Sent: Thursday, April 10, 2014 11:54 AM

To: Borjon, Juan M

Cc: Raul Sesin; ismael marroquin; Steven Cruz; Roman Rodriguez; raul sesin; g g

Subject: Re: Laboratory Compaction Characteristics Of Soil Report : Mile 17.5 (btwn Ware Rd and West R.O.W. of HCID#1) (88141019.0002)

Importance: High

Good Morning Juan,

Could you please schedule for today at 2:00 PM, please confirm.
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

From: "Juan M Borjon" <jmborjon@terracon.com>

To: "Maria Lucio" <maria.lucio@co.hidalgo.tx.us>

Cc: "Raul Sesin" <raul.sesin@co.hidalgo.tx.us>, "ismael marroquin" <ismael.marroquin@hcdd1.org>, "Steven Cruz" <steven.cruz@co.hidalgo.tx.us>, "Roman Rodriguez" <roman.rodriguez@co.hidalgo.tx.us>, "raul sesin" <raul.sesin@hchd.org>, "g g" <g.g@hcdd1.org>

Sent: Thursday, April 10, 2014 11:07:12 AM

Subject: RE: Laboratory Compaction Characteristics Of Soil Report : Mile 17.5 (btwn Ware Rd and West R.O.W. of HCID#1) (88141019.0002)

Good morning Lulu,

At what time would you like to schedule the field density/compaction test today? Please advise.
Thanks!

Juan Borjon

From: Maria Lucio [mailto:maria.lucio@co.hidalgo.tx.us]
Sent: Thursday, April 10, 2014 10:56 AM
To: Borjon, Juan M
Cc: Raul Sesin; ismael.marroquin@hcdd1.org; Steven Cruz; Roman Rodriguez; raul sesin; g g
Subject: Fwd: Laboratory Compaction Characteristics Of Soil Report : Mile 17.5 (btwn Ware Rd and West R.O.W. of HCID#1) (88141019.0002)
Importance: High

Good Morning,

Please schedule the following test for compaction test at ware rd and mile 9 project j008. (Mile 17.5 between Ware Rd and West R.O.W. of HCID#1).
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

From: "Ismael Marroquin" <ismael.marroquin@hcdd1.org>
To: "Maria Lucio" <maria.lucio@co.hidalgo.tx.us>
Sent: Thursday, April 10, 2014 10:31:37 AM
Subject: RE: Laboratory Compaction Characteristics Of Soil Report : Mile 17.5 (btwn Ware Rd and West R.O.W. of HCID#1) (88141019.0002)

Lulu need compaction test at ware rd and mile 9 project j008.

Mike Marroquin
Construction Supervisor
Hidalgo County Drainage District 1

----- Original message -----

From: Maria Lucio <maria.lucio@co.hidalgo.tx.us>
 Date: 03/10/2014 11:51 AM (GMT-06:00)
 To: jaime salazar <jaime.salazar@hcdd1.org>, ismael.marroquin@hcdd1.org
 Cc: Roman Rodriguez <roman.rodriguez@co.hidalgo.tx.us>, Steven Cruz
 <steven.cruz@co.hidalgo.tx.us>, g g <g.g@hcdd1.org>, Raul Sesin
 <raul.sesin@co.hidalgo.tx.us>, raul sesin <raul.sesin@hchd.org>
 Subject: Fwd: Laboratory Compaction Characteristics Of Soil Report : Mile 17.5 (btwn
 Ware Rd and West R.O.W. of HCID#1) (88141019.0002)

2nd email sent from Terracon

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

From: jmborjon@terracon.com
To: "leticia saenz" <leticia.saenz@co.hidalgo.tx.us>, "raul sesin"
 <raul.sesin@co.hidalgo.tx.us>, "maria lucio" <maria.lucio@co.hidalgo.tx.us>, "ismael
 marroquin" <ismael.marroquin@hcdd1.org>
Sent: Monday, March 10, 2014 11:46:42 AM
Subject: Laboratory Compaction Characteristics Of Soil Report : Mile 17.5 (btwn Ware
 Rd and West R.O.W. of HCID#1) (88141019.0002)

Report Title	Service Date	File Name
Laboratory Compaction Characteristics Of Soil Report	03/07/2014	88141019.0002Rev2.pdf

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Zimbra

RE: Ready for another compaction test at ware rd and mile 171/2 project. Make it at 2pm today if posible.

From : Juan M Borjon <jmborjon@terracon.com>
Subject : RE: Ready for another compaction test at ware rd and mile 171/2 project. Make it at 2pm today if posible.
To : Maria Lucio <maria.lucio@co.hidalgo.tx.us>
Cc : Raul Sesin <raul.sesin@co.hidalgo.tx.us>, ismael marroquin <ismael.marroquin@hcdd1.org>, raul sesin <raul.sesin@hchd.org>, Steven Cruz <steven.cruz@co.hidalgo.tx.us>, Roman Rodriguez <roman.rodriguez@co.hidalgo.tx.us>, g g <g.g@hcdd1.org>

Thu, Apr 17, 2014 10:23 AM

Good morning Lulu,

We'll have an engineering technician there at the project site at 2:00 PM today. Thanks!

Juan Borjon

From: Maria Lucio [mailto:maria.lucio@co.hidalgo.tx.us]
Sent: Thursday, April 17, 2014 10:08 AM
To: Borjon, Juan M
Cc: Raul Sesin; ismael marroquin; raul sesin; Steven Cruz; Roman Rodriguez; g g
Subject: Fwd: Ready for another compaction test at ware rd and mile 171/2 project. Make it at 2pm today if posible.
Importance: High

Good Morning Juan,
Could you please schedule for today at 2:00 PM, please confirm.
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

From: "Ismael Marroquin" <ismael.marroquin@hcdd1.org>
To: "Maria Lucio" <maria.lucio@co.hidalgo.tx.us>
Sent: Thursday, April 17, 2014 8:14:45 AM
Subject: Ready for another compaction test at ware rd and mile 171/2 project. Make it at 2pm today if posible.

Mike Marroquin
Construction Supervisor
Hidalgo County Drainage District 1

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Zimbra

RE: Request for Testing Mile 17 1/2

From : Juan M Borjon <jmborjon@terracon.com>

Thu, Apr 24, 2014 11:47 AM

Subject : RE: Request for Testing Mile 17 1/2**To :** Maria Lucio <maria.lucio@co.hidalgo.tx.us>**Cc :** Raul Sesin <raul.sesin@co.hidalgo.tx.us>, raul sesin <raul.sesin@hchd.org>, ismael marroquin <ismael.marroquin@hcdd1.org>, Roberto Deleon <robert.deleon@hcdd1.org>, Steven Cruz <steven.cruz@co.hidalgo.tx.us>, Roman Rodriguez <roman.rodriguez@co.hidalgo.tx.us>, g g <g.g@hcdd1.org>

Good morning Lulu,

I will add it to the schedule for tomorrow at 2:00 PM. Thanks!

Juan Borjon

From: Maria Lucio [mailto:maria.lucio@co.hidalgo.tx.us]**Sent:** Thursday, April 24, 2014 11:45 AM**To:** Borjon, Juan M**Cc:** Raul Sesin; raul sesin; ismael marroquin; Roberto Deleon; Steven Cruz; Roman Rodriguez; g g**Subject:** Fwd: Request for Testing Mile 17 1/2**Importance:** High

Good Morning Juan,

Could you please schedule for tomorrow at 2:00 PM, please confirm.
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

From: "Roberto Deleon" <robert.deleon@hcdd1.org>**To:** "Maria Lucio" <maria.lucio@co.hidalgo.tx.us>**Sent:** Thursday, April 24, 2014 11:38:18 AM**Subject:** RE: Request for Testing Mile 17 1/2Maria iam robert de leon with hcdd1 ismael marroquin is out this week so I would like to request a compaction test for tomorrow 4-25-14 at 2 pm or later at the ware rd project or also known as mile 17 1/2.

Thanks
Robert De Leon
HCDD1 Foreman

Sent from my Verizon Wireless 4G LTE Tablet

----- Original message -----

From: Maria Lucio <maria.lucio@co.hidalgo.tx.us>
Date: 04/24/2014 10:50 AM (GMT-06:00)
To: Roberto Deleon <robert.deleon@hcdd1.org>
Cc: Roman Rodriguez <roman.rodriguez@co.hidalgo.tx.us>, Steven Cruz
<steven.cruz@co.hidalgo.tx.us>, ismael marroquin <ismael.marroquin@hcdd1.org>
Subject: Request for Testing Mile 17 1/2

Good Morning Gilbert,

Please submit your request for testing to me. If you could please let me know what you are requesting along with the date and time for the test, I would greatly appreciate it. Should you have any questions please let me know, 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

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FIELD DENSITY TEST REPORT

Report Number: 88141019.0005
 Service Date: 04/25/14
 Report Date: 04/28/14
 Task: Soils

Terracon
 1506 Mid Cities Dr.
 Pharr, TX 78577
 956-283-8254 Reg No: F-3272

RECEIVED JUN 18 2014

Client

Hidalgo County
 Attn: Leticia H. Saenz
 2812 S. Business Highway 281
 Purchasing Department
 Edinburg, TX 78539

Project

Mile 17.5 (btwn Ware Rd and West R.O.W. of HCID#1)
 Mile 17.5 between Ware and Rooth Road
 Edinburg, TX 78539

Project Number: 88141019

Material Information

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data		Project Requirements	
				Optimum Water Content (%)	Max. Lab Density (pcf)	Water Content (%)	Compaction (%)
1	88141019.0002	Sandy Lean Clay	ASTM D698	15.5	105.7	±2	95

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
Existing Ditch									
1	Station 1+00	3	1	6	124.1	14.8	13.5	109.3	100+
2	Station 6+00	3	1	6	128.5	16.5	14.7	112.0	100+
3	Station 11+00	3	1	6	128.0	17.9	16.3	110.1	100+
4	Station 16+00	3	1	6	124.9	16.1	14.8	108.8	100+
5	Station 22+00	3	1	6	123.9	16.7	15.6	107.2	100+
6	Station 28+00	3	1	6	123.8	15.8	14.6	108.0	100+

Datum:

Serial No: 67773

Std. Cnt. M: 632

Std. Cnt. D: 2489

Comments: Test and/or retest results on this report meet project requirements as noted above.

Services: Perform in-place density and moisture content tests to determine degree of compaction and material moisture condition.

Terracon Rep.: Juan Castillo

Reported To: Frank

Contractor:

Report Distribution:

(1) Hidalgo County, Leticia H. Saenz

(1) Hidalgo County, Emailed

(1) Hidalgo County, Emailed

(1) Hidalgo County, Emailed

Reviewed By:

Juan Borjon
 Juan Borjon

Project Manager I-Professional

Test Methods: ASTM D2922, ASTM D3017

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written consent of our company. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.



**TABLE 1
 ESTIMATED FEE SUMMARY**

Our fee estimate is in accordance with the time and tests performed as shown below.

SOILS

Estimate 150 hours field testing and observation @ \$43/hour.....	\$ 6,450
Estimate 3 standard proctors @ \$200/test.....	\$ 600
Estimate 1 modified proctors @ \$200/test.....	\$ 200
Estimate 4 Atterberg Limits @ \$60/test.....	\$ 240
Estimate 4 sieve analysis (-200) @ \$60/test.....	\$ 240
Estimate 1 Texas Triaxial Test (TEX 117-E) @ \$1,250/test.....	\$1,250
Estimate 130 nuclear density tests (every 300 linear feet at every 6" lift) @ \$12/test.....	\$ 1,560
Estimate 50 vehicle trips @ \$20/trip.....	\$ 1,000
<i>Sub-Total (Soils)</i>	\$ 11,540

ASPHALT

Estimate 30 hours asphalt observation @ \$43/hour.....	\$ 1,290
Estimate 2 asphalt mix verification @ \$250/test.....	\$ 500
Estimate 10 asphalt cores @ \$40/core.....	\$ 400
Estimate 10 vehicle trips @ \$20/trip.....	\$ 200
<i>Sub-Total (Asphalt)</i>	\$ 2,390

Project Manager 12 hours @ \$90/hour..... \$ 1,080

City of McAllen Section (82%)..... \$ 12,308.20
 County Section (18%)..... \$ 2,701.80

Total Cost..... \$ 15,010