

Terracon

INVOICE

RECEIVED
NOV 18 2014

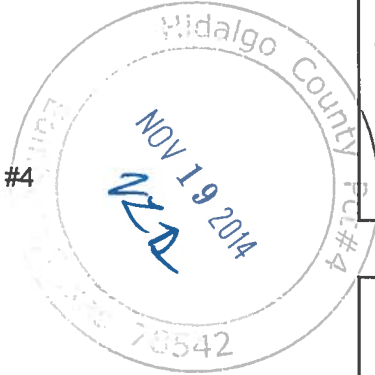
BY: *L. Lucia*

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 Lucia
1051 N. Doolittle Rd.
Hidalgo County Precinct #4
Edinburg, TX 78542



REMIT TO:	
Invoice Number: T580725	
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:	11/03/2014
Services Through:	11/01/2014

Date	Report	Description of Services	Quantity	Rate	Total
10/24/14	88141019.0006 ✓	Project Manager, per hour	0.25	\$90.00 ✓	\$22.50 ✓
10/24/14	88141019.0006 ✓	Engineering Technician, hour	5.00	\$43.00 ✓	\$215.00 ✓
10/24/14	88141019.0006 ✓	Trip Charge/Vehicle Charge, each	1.00	\$20.00 ✓	\$20.00 ✓
10/24/14	88141019.0006 ✓	Concrete Compressive Strength Tests, each	5.00	\$13.00 ✓	\$65.00 ✓
10/25/14	88141019.0006B ✓	Project Manager, per hour	0.25	\$90.00 ✓	\$22.50 ✓
10/25/14	88141019.0006B ✓	Engineering Technician, hour - OT	1.00	\$64.50 ✓	\$64.50 ✓
10/25/14	88141019.0006B ✓	Trip Charge/Vehicle Charge, each	1.00	\$20.00 ✓	\$20.00 ✓
10/29/14	88141019.0007 ✓	Project Manager, per hour	0.25	\$90.00 ✓	\$22.50 ✓
10/29/14	88141019.0007 ✓	Engineering Technician, hour	3.00	\$43.00 ✓	\$129.00 ✓
10/29/14	88141019.0007 ✓	Trip Charge/Vehicle Charge, each	1.00	\$20.00 ✓	\$20.00 ✓
10/29/14	88141019.0007 ✓	Sieve Analysis (Washed), per test	1.00	\$60.00 ✓	\$60.00 ✓
10/29/14	88141019.0007 ✓	Standard Proctor 4" or 6" mold, each	1.00	\$200.00 ✓	\$200.00 ✓

Invoice Total **\$861.00**

4-1200-431-00-124-142-0-841
4-1200-431-00-124-142-0-731
Pct. # 139
Pur. Inv. # 251254 *HAB*
P.O. # 705563

Invoice Received By: *[Signature]* on 11/19/14
Goods/Services Received By: *[Signature]* on 10/24/14, 11/02/14, 11/02/14
Steven [Signature]

TERMS: DUE UPON PRESENTATION OF INVOICE

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>	<i>\$ 11,540</i>

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>	<i>\$ 2,390</i>
Project Manager 12 hours @ \$90/hour	\$ 1,080
<i>Total Cost</i>	<i>\$ 15,010</i>

EXHIBIT C

**SCHEDULE OF FEES
for
CONSTRUCTION MATERIALS ENGINEERING
and
RELATED TESTING AND INSPECTION SERVICES**

Construction Materials Testing and Observation Field Services

Engineering Technician to Perform the Following Services/Tests:

Pick-up concrete test specimens or sampling materials, per hour	\$43.00
Concrete field monitoring & molding of cylinders, slump, air content, & temperature measurements, per hour.....	\$43.00
Concrete or asphalt coring, per hour	\$43.00
plus bit wear (length times diameter), per inch diameter.....	\$1.00
plus generator, per day	\$150.00
plus core rig and equipment, per day	\$150.00
plus patching of holes, each.....	\$15.00
saw cut (square inch).....	\$.50
In-place nuclear moisture-density testing, per hour.....	\$43.00
In-place nuclear moisture density tests, each	\$12.00
In-place nuclear moisture-density gauge, per trip.....	\$50.00
Field soil stabilization (lime or cement) per hour	\$43.00
Reinforcing steel inspection, per hour.....	\$43.00

Senior Engineering Technician to Perform the Following Services/Tests:

Full time earthwork observation, per hour.....	\$43.00
Foundation installation observation, per hour.....	\$43.00
Concrete and asphalt batch plant inspection, per hour.....	\$65.00
Windsor probe or Swiss hammer testing, per hour.....	\$65.00
plus Windsor probe or Schmidt hammer, per day.....	\$40.00
plus Windsor probe shots, each	cost + 15%

Steel and Welding Inspection:

Visual field welding inspection and welder qualification, per hour.....	\$90.00
Certified NDE inspector (Dye Penetrant/magnetic particle), per hour	\$90.00

Transportation Charges (Applied In Addition to all Personnel Hourly Rates):

Vehicle trip charge	\$20.00
Trips to locations other than job site or job sites over 40 miles, per mile.....	\$0.75

A minimum of 24 hours advance notice is requested for scheduling or canceling field inspection and testing services. Work scheduled with less than 24 hours notice will be serviced subject to available personnel.

Construction Materials Laboratory Testing Services

(The price for tests in this section are based on a per sample or per test basis.)

Particle size analysis:

Sieve analysis up to 200 sieve:	
Dry, each (5 sieve maximum)	\$60.00
Washed, each (5 sieve maximum).....	\$75.00
Percent finer than 200 sieve	
(washed, soil only), each	\$60.00
Atterberg limits	\$60.00
Compression testing of concrete cylinders, each	\$13.00
Flexural testing of concrete beams, each	\$25.00
Curing, capping and compressive strength testing of concrete cores, each	\$35.00
Moisture-density relationship, Proctor:	
Soil (ASTM D-698), each (4" mold)	\$200.00 ✓
Soil (ASTM D 1557), each (4" mold)	\$200.00
Soil with gravel, base materials (6" mold) or THD, each	\$250.00

Soil, base material with admixtures (6" mold), each.....	\$250.00
Texas Triaxial Test (TEX 117-E).....	\$1,250.00
Testing of bituminous materials:	
Asphalt Mix Verification:	
(Molding specimens, specific gravity, Extraction/Gradation (set of 3).....	\$250.00
Stability (set of 3).....	\$75.00
Index of retained stability (C.O.E.), each.....	\$150.00
Maximum theoretical specific gravity.....	\$75.00
In-place cores (per core sample).....	\$40.00
Preparation of samples/materials will be charged for all	
laboratory tests, when applicable, on an hourly basis.....	\$43.00

Engineering and Support Staff

Personnel:	Rate, Hour
Draftsperson/Secretary	\$45.00
Engineering Technician	\$43.00
Senior Engineering Technician	\$43.00
Laboratory/Field Supervisor.....	\$65.00
Certified Steel/Welding Inspector.....	\$90.00
Staff Engineer/CMT Project Manager.....	\$90.00
CME Manager	\$90.00
Senior Project Manager/Senior Engineer, P.E.....	\$120.00
Consultant, Client Representative, Project Principal, P.E.....	\$125.00

The applicable field rate will be invoiced for all hours worked, including travel time, report and sample preparation. Technician time will be invoiced on a portal-to-portal basis from our office. Overtime rates of 1.33 times the regular hourly rates will be charged for time worked outside normal workday hours of 8:00 am to 5:00 pm and over eight (8) hours per day, Monday through Friday and all day Saturday. Hours worked on, or holidays will be invoiced at the rate of 2.0 times the regular hourly rates. A minimum three (3)-hour billed per visit to project site will be invoiced; hours will be rounded up to the next whole number. A 5 percent technical review and administration cost will be added to all invoices.

Out-of-town subsistence and travel expenses incurred by an employee in connection with the project will be invoiced at cost plus 15 percent or at a Per Diem rate of \$125.00 per day per individual. Use of company vehicles will be charged on the basis of \$0.75 per mile.

General Information

Expenses incurred in connection with the project will be invoiced at cost plus 15 percent. These expenses may include the following:

Services directly applicable to the work, such as special legal and accounting expenses, special consultants, subcontractor services, and similar costs that are not applicable to general operating expenses. Identifiable communication expenses, such as long distance telephone, facsimile, telegraphy, cable, express delivery charges, postage, and similar costs that are not applicable to general correspondence and/or operating expenses.

Identifiable processing and reproduction costs applicable to the project, such as developing, blueprinting, photocopying, printing, and similar costs that are not applicable to general operating expenses.

Invoices will be submitted monthly for work in progress and are due and payable 30 days from invoice date. Interest will be charged at the rate of 1.5 percent per month for late payments. Information and corresponding fees for special services and testing not presented herein will be furnished upon request.



Purchase Order COUNTY OF HIDALGO

PO# 705563

DATE: 03/04/14

PAGE NO: 1 of 1

PO TYPE:

VENDOR: 369756

REQ: 00251254

PHONE:

EMAIL:

SHIP TO: HIDALGO CO. PCT 4

1051 N. DOOLITTLE
EDINBURG TX 78542

TERRACON CONSULTANTS, INC.
1506 MID-CITIES DRIVE
PHARR TX 78577

CONTACT:

SITE: COMMISSIONER, PRECINCT 4

SPECIAL INSTRUCTIONS: Pct. #4 Req 139

VENDOR NOTES

- 1 Do not add to, or alter this Purchase Order. This Order is not renewable.
- 2 TAX EXEMPTION: This Purchase Order may be accepted in lieu of Exemption Certificate.
- 3 This Order is also placed F.O.B Destination. Vendor must repay all shipping costs.
- 4 Invoice each Purchase Order singly. Original invoices are required customer copy may be accepted. Out number must appear on all invoices, bills of lading, and packages.
- 5 Payment will be made only for bona fide and full completed orders, unless otherwise attached.


QTY	UOM	DESCRIPTION	UNIT PRICE	AMOUNT
		DO NOT DUPLICATE ORDER		
		C-13-334-02-11 For: Russell Road Project- Mile 17 1/2 BA Approved CC 01/28/14		
		CC Regular 02/11/14 AI- 43007		
1.00	EACH	CC Work Authorization No. 1- "Professional Engineering Services" for Job Specific Project - Mile 17 1/2 (between Ware Road and West ROW of HCID No. 1 Cannal Construction Materials Quality Control Testing Proposal No. P88130463	15,010.00	15,010.00
		TOTAL:		15,010.00
		REPORT ROAD HAZARDS 1-866-HCR-SAFE OR 1-866-427-7233		
		***** For Hidalgo County use only		
		4-1200-431-00-124-142-0-731	2,701.80	
		4-1200-431-00-124-142-0-841	12,308.20	

Authorized by: Martha Salazar

Zimbra

maria.lucio@co.hidalgo.tx.us

RE: Mile 17-1/2 Road Paving and Drainage Improvements

From : Juan M Borjon <jmborjon@terracon.com> Wed, Oct 22, 2014 04:23 PM
Subject : RE: Mile 17-1/2 Road Paving and Drainage Improvements  1 attachment
To : Jesse Alvarez <jose.alvarez@co.hidalgo.tx.us>
Cc : Maria Lucio <maria.lucio@co.hidalgo.tx.us>, Raul Sesin <raul.sesin@co.hidalgo.tx.us>, Areanna E. Yzaguirre <areanna.yzaguirre@co.hidalgo.tx.us>, Roman Rodriguez <roman.rodriguez@co.hidalgo.tx.us>, Eddie Gonzalez <eddie.gonzalez@mcallen.net>, marllen gonzalez <marllen_gonzalez@mcallen.net>

Good afternoon Jesse,

I will add this to the dispatch schedule for Friday at 9 AM. Thanks!

Regards,

Juan M. Borjon, E.I.T.

Project Manager

Construction Materials Engineering & Testing

Terracon Consultants, Inc.

1506 Mid-Cities Drive | Pharr, Texas 78577

P 956.283.8254 | F 956.283.8279 | M 956.207.6868

jmborjon@terracon.com | www.terracon.com

♻ Please consider the environment before printing this email ☺



From: Jesse Alvarez [mailto:jose.alvarez@co.hidalgo.tx.us]

Sent: Wednesday, October 22, 2014 4:12 PM

To: Borjon, Juan M

Cc: Maria Lucio; Raul Sesin; Areanna E. Yzaguirre; Roman Rodriguez; Eddie Gonzalez; marllen_gonzalez@mcallen.net

Subject: Mile 17-1/2 Road Paving and Drainage Improvements

Good Afternoon Mr. Borjon,

Please see below for Testing Request,

Date of Service Requested: **10/24/2014**

Project Name/Location: County of Hidalgo Precinct No. 4 Mile 17-1/2 Rd. Paving and Drainage Improvements

Time of Needed Services: **9:00 AM**

Type of Service Requested: 1 Set of Concrete Cylinders , for Storm Drainage Type C Inlets

(To include Sample pickup, Air Content Pressure Method, Cylindrical

Specimen Prep/Hold/Cure and Compressive Strength of Cylindrical Specimen)

Thank You

Jesse Alvarez
Construction Inspector
Hidalgo County Engineering Projects Office
301 East State St.
Pharr, Texas 78577
956-292-7000 ext. 2029
956-533-3992 Mobile
jose.alvarez@co.hidalgo.tx.us
County of Hidalgo Precinct No. 2

Terracon provides environmental, facilities, geotechnical, and materials consulting engineering services delivered with responsiveness, resourcefulness, and reliability.

Private and confidential as detailed here (www.terracon.com/disclaimer). If you cannot access hyperlink, please e-mail sender.



image001.png

4 KB

CONCRETE COMPRESSIVE STRENGTH TEST REPORT



Report Number: 88141019.0006
Service Date: 10/24/14
Report Date: 10/31/14 Revision 1 - 7-day results
Task:

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

Client

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

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

Specified Strength: 3,000 psi @ 28 days
Mix ID: 3000 1"F AE 3-5"
Supplier: Cemex Concrete
Batch Time: 0957 Plant: Edinburg Texas
Truck No.: 10036864 Ticket No.: 42780886

Sample Information

Sample Date: 10/24/14 Sample Time: 1030
Sampled By: Carlos Flores
Weather Conditions: Sunny
Accumulative Yards: 9 Batch Size (cy): 9
Placement Method: Direct Discharge
Water Added Before (gal):
Water Added After (gal):
Sample Location: Station 30+63
Placement Location: 4' x 4' Concrete Inlets

Field Test Data

Test	Result	Specification
Slump (in):	3	
Air Content (%):		
Concrete Temp. (F):	85	
Ambient Temp. (F):	90	
Plastic Unit Wt. (pcf):		
Yield (Cu. Yds.):		

Laboratory Test Data

Set No.	Specimen ID	Avg Diam. (in)	Area (sq in)	Date Received	Date Tested	Age at Test (days)	Maximum Load (lbs)	Compressive Strength (psi)	Fracture Type
1 ✓	A	4.00	12.57		10/31/14	7	36,350	2,890	2
1	B	4.00	12.57		11/21/14	28			
1	C	4.00	12.57		11/21/14	28			
1	D	4.00	12.57		11/21/14	28			
1	E	4.00	12.57		12/19/14	56			

Comments: Not tested for plastic unit weight.

Samples Made By: Terracon

Services: Obtain samples of fresh concrete at the placement locations (ASTM C-172), perform required field tests and cast, cure, and test compressive strength samples (ASTM C-31, C-39, C-617).

Terracon Rep.: Carlos Flores

Reported To: Jesse Alvarez w/Hidalgo County ✓

Contractor:

Report Distribution:

(1) Hidalgo County, Maria Lucio (1) City of McAllen, Emailed
(1) City of McAllen, Emailed (1) Hidalgo County, Emailed
(1) Hidalgo County, Emailed (1) Hidalgo County, Emailed

Reviewed By:

Juan Borjon
Project Manager I-Professional

Test Methods: ASTM C 31, ASTM C39, ASTM C143, ASTM C172, ASTM C231, ASTM C1064

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.

CONCRETE SAMPLE PICK-UP REPORT

Report Number: 88141019.0006B ✓
Service Date: 10/25/14
Report Date: 10/27/14



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

Client

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

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

Sample Type: 4" x 8" / Concrete Cylinders ✓

Date Cast: 10/24/14 ✓

1 set(s) of 5 samples per set were retrieved and transported to our laboratory and placed in a temperature and humidity-controlled environment for compressive strength testing.

Services: Sample pick-up

Terracon Rep.: Arturo Garcia

Reported To:

Contractor:

Report Distribution:

(1) Hidalgo County, Maria Lucio

(1) City of McAllen, Emailed

(1) City of McAllen, Emailed

(1) Hidalgo County, Emailed

(1) Hidalgo County, Emailed

(1) Hidalgo County, Emailed

Reviewed By:


Juan Borjon

Project Manager I-Professional

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.

Zimbra

maria.lucio@co.hidalgo.tx.us

RE: Mile 17-1/2 Rd. Paving and Drainage Improvements

From : Juan M Borjon <jmborjon@terracon.com> Wed, Oct 29, 2014 01:36 PM
Subject : RE: Mile 17-1/2 Rd. Paving and Drainage Improvements
To : Jose Alvarez <jose.alvarez@co.hidalgo.tx.us>
Cc : Maria Lulu Lucio <maria.lucio@co.hidalgo.tx.us>, Raul Sesin <raul.sesin@co.hidalgo.tx.us>, Roman Rodriguez <roman.rodriguez@co.hidalgo.tx.us>, eddie gonzalez <eddie_gonzalez@mcallen.net>, Areanna E. Yzaguirre <areanna.yzaguirre@co.hidalgo.tx.us>

Good afternoon Jesse,

I will add this to the dispatch schedule for today at 3 PM. Thanks!

From: Jose Alvarez [mailto:jose.alvarez@co.hidalgo.tx.us]
Sent: Wednesday, October 29, 2014 1:27 PM
To: Borjon, Juan M
Cc: jose.alvarez@co.hidalgo.tx.us; Maria Lulu Lucio; Raul Sesin; Roman Rodriguez; eddie_gonzalez@mcallen.net; Areanna E. Yzaguirre
Subject: Mile 17-1/2 Rd. Paving and Drainage Improvements

Good Afternoon Mr. Borjon,

Please see below for Testing Request,

Date of Service Requested: 10/29/2014

Project Name/Location: County of Hidalgo Precinct No. 4 Mile 17-1/2 Rd. Paving and Drainage Improvements

Time of Needed Services: 3:00 PM

Type of Service Requested: **1 Sand Proctor pick up for 24 " RCP Drainage Crossings**

Thank You

Jesse Alvarez
Construction Inspector
County of Hidalgo Engineering Projects Office
301 East State St.
Pharr, Texas 78577
956-292-7000 Ext. 2029
956-533-3992 mobile
Jose.alvarez@co.hidalgo.tx.us

Sent from my Samsung Galaxy S5
T-Mobile 4G LTE Device

Terracon provides environmental, facilities, geotechnical, and materials consulting engineering services delivered with responsiveness, resourcefulness, and reliability.

Private and confidential as detailed here (www.terracon.com/disclaimer). If you cannot access hyperlink, please e-mail sender.

LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT



Report Number: 88141019.0007
Service Date: 10/29/14
Report Date: 10/31/14
Task: Soils

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

Client

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

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

Source of Material: Sand Embedment
Proposed Use: Sand Backfill on 24" R.C.P.

Sample Information

Sample Date: 10/29/14 Sample Time: 1530
Sampled By: Arturo Garcia
Sample Location: On-site

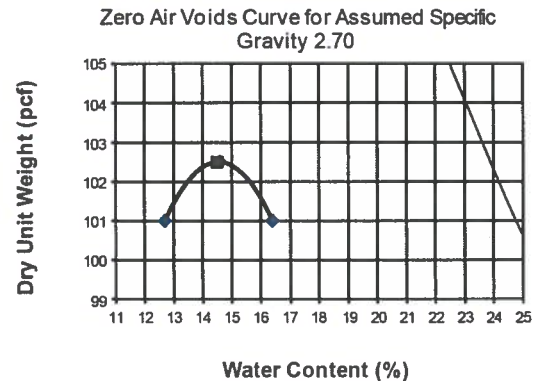
Sample Description: Poorly Graded Sand with Silt

Laboratory Test Data

Test Procedure: ASTM D698
Test Method: Method A
Sample Preparation: Wet
Rammer Type: Mechanical
Maximum Dry Unit Weight (pcf): 102.5
Optimum Water Content (%): 14.5

	Result	Specifications
Liquid Limit:	Non-plastic	
Plastic Limit:	Non-plastic	
Plasticity Index:	Non-plastic	
In-Place Moisture (%):		
Passing #200 (%):	7.0	

USCS: SP-SM



Comments:

Services: Obtain a sample of backfill from the project site and return it to the laboratory. Prepare and test the sample for Moisture Density Relation and Atterberg limits.

Terracon Rep.: Arturo Garcia

Reported To: Jesse Alvarez w/Hidalgo County

Contractor:

Report Distribution:

(1) Hidalgo County, Maria Lucio	(1) City of McAllen, Emailed
(1) City of McAllen, Emailed	(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 D698, ASTM D2487, ASTM D4318

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.