



**CONSENT AGENDA  
DRAINAGE DISTRICT  
BOARD OF DIRECTORS**

**July 7, 2015**

**9:00 A.M.**

**NOTICE is hereby given in accordance with Chapter 551, Texas Government Code, that a SPECIAL MEETING of the Drainage District #1 Board of Directors will be held at the Edinburg Council Chambers 415 W. University Drive, Edinburg, Hidalgo County, Texas. Discussion and possible action relating to the following business will be transacted:**

**NOTICE TO THE PUBLIC  
CONSENT AGENDA**

**The following items are of a routine or administrative nature. The Drainage District #1 Board has been furnished with background and support on each item, and/or it has been discussed at a previous meeting. All items will be acted upon by one vote without being discussed separately unless requested by a Board Member, in which event the item or items will immediately be withdrawn for individual consideration in its normal sequence after the items not requiring separate discussion have been acted upon. The remaining items will be adopted by one vote.**

1. Approval of check register and payment of claims and bills - County Treasurer
  
2. **AI -50333** Request approval for the following Budget Transfers:
  - A. Admin
  - B. M&O
  
3. **AI -50325** Request approval to issue payment on the following items after review and audit procedures are complete:
  - A. Inv#11325166 in the amount of \$55,336.83 from L&G Consulting Engineers, Inc. related to Work Authorization no. 4-Design, Geotechnical, Survey & ROW Acquisition Services for Ph.1 of La Joya Watershed Improvement Master Plan. PO#625396.
  
  - B. Inv#20152384 in the amount of \$6,402.69 from Tedsi Infrastructure Group related to Work Authorization No. 14-LRGVRWMP-Preliminary Planning & Development-Field Surveying, Water Quality and Architectural Services. PO#623576.

**AI -50333**

**2.**

**DRAINAGE - CONSENT**

Meeting Date: 07/07/2015

Submitted By: Claudette Guerrero,  
DRAINAGE DISTRICT

Department: DRAINAGE DISTRICT

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Information

CAPTION

Request approval for the following Budget Transfers:

A. Admin

B. M&O

BACKGROUND

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Fiscal Impact

Attachments

BTs

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**Form Review**

<b>Inbox</b>	<b>Reviewed By</b>	<b>Date</b>
Budget & Management	Damaris San Miguel	07/02/2015 09:53 AM
Final Approval	Monica Badillo	07/02/2015 04:38 PM
Form Started By: Claudette Guerrero		Started On: 07/02/2015 08:42 AM
Final Approval Date: 07/02/2015		

# HIDALGO COUNTY DRAINAGE DISTRICT NO. 1

902 N. Doolittle Road

Edinburg, Texas 78542

(956)292-7080 Fax (956)292-7089



DATE 7/7/2015  
 DEPARTMENT HEAD Raul E. Sesin, P.E. CFM  
 DEPARTMENT NAME Hidalgo County Drainage District  
 ACCOUNT NUMBER 110-415-003 Admin.

SUBJECT Budget Line Item Transfer (s)

HIDALGO CONTY DRAINAGE DISTRICT #1 BOARD OF DIRECTORS

FROM		TO		
ACCOUNT NUMBER	ACCOUNT (OBJECT) NAME	ACCOUNT NUMBER	ACCOUNT (OBJECT) NAME	AMOUNT
15-110-415-003-46010	OFFICE SUPPLIES	15-110-415-003-47450	COMPUTER EQUIPMENT	\$3,000.00
15-110-415-003-46010	OFFICE SUPPLIES	15-110-415-003-47470	SOFTWARE	\$2,000.00
<b>TOTALS</b>				<b>\$5,000.00</b>

REASON: Budget Transfer needed for software update and computer equipment for administration office technical hardware.

\_\_\_\_\_  
 Department Head

\_\_\_\_\_  
 Board Of Directors

\_\_\_\_\_  
 DATE

\_\_\_\_\_  
 DATE



**AI -50325**

**3.**

**DRAINAGE - CONSENT**

Meeting Date: 07/07/2015

Submitted By: Claudette Guerrero,  
DRAINAGE DISTRICT

Department: DRAINAGE DISTRICT

---

Information

CAPTION

Request approval to issue payment on the following items after review and audit procedures are complete:

A. Inv#11325166 in the amount of \$55,336.83 from L&G Consulting Engineers, Inc. related to Work Authorization no. 4-Design, Geotechnical, Survey & ROW Acquisition Services for Ph.1 of La Joya Watershed Improvement Master Plan. PO#625396.

B. Inv#20152384 in the amount of \$6,402.69 from Tedsy Infrastructure Group related to Work Authorization No. 14-LRGVRWMP-Preliminary Planning & Development-Field Surveying, Water Quality and Architectural Services. PO#623576.

BACKGROUND

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Fiscal Impact

Attachments

Tedsy Inv#20152384

L&G Inv#11325166

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**Form Review**

<b>Inbox</b>	<b>Reviewed By</b>	<b>Date</b>
Budget & Management	Damaris San Miguel	07/02/2015 09:22 AM
Final Approval	Monica Badillo	07/02/2015 04:38 PM
Form Started By: Claudette Guerrero		Started On: 07/01/2015 04:54 PM
Final Approval Date: 07/02/2015		



# Hidalgo County Drainage District No. 1

902 North Doolittle Road

Edinburg, Texas 78542

Office: (956) 292-7080

## Invoice Processing Checklist/Routing Slip

Date Received:

June 19, 2015

Engineer/Firm Name:

TEDSI

Project Name/Number:

LRGVRWMP-Preliminary WA No. 14

Invoice No.:

20152384

Purchase Order No.:

623576

Received By:

Rosa Arce

Forwarded to:

Nora D. Cavazos

Date:

Total # of Pages Submitted:

53

Attachments:

CD

Forwarded to:

Jose N. Saldivar

Date:

Forwarded to:

Lora Briones

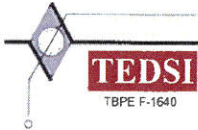
Date:

Additional Comments:

\$6,402.69

RECEIVED  
HIDALGO COUNTY  
DRAINAGE DISTRICT #1

JUN 19 2015  
2:15 AM/PM  
BY: Rosa Arne



**TEDSI INFRASTRUCTURE GROUP**

*Consulting Engineers*  
1201 East Expressway 83 ♦ Mission, Texas 78572  
Tel: (956) 424-7898  
Fax: (956) 424-7022

June 17, 2015  
Project No: 2013-1128-14  
Invoice No: 20152384

Ms. Claudette Guerrero  
Hidalgo County Drainage District No. 1  
902 North Doolittle Road  
Edinburg, TX 78542

Project 2013-1128-14 LRGVRWMP - Preliminary Planning & Development

**Precinct No. 1 2012 Bond Referendum**  
**Field Surveying, Water Quality and Architectural Services**  
**Account No. 13-133-433-360-010-000-43340**  
**P. O. No. 623576 Work Authorization No. 14**

**Professional Services from May 01, 2015 to May 31, 2015**  
**Fee**

Billing Phase	Fee	Percent Complete	Earned	Previous Fee Billing	Current Fee Billing
Field Surveying-TEDSI	81,571.20	38.9139	31,742.54	31,742.54	0.00
Water Quality Samples & Analysis *	140,280.76	64.2131	90,078.62	83,675.93	6,402.69
Architectural Services	70,128.10	0.00	0.00	0.00	0.00
Total Fee	291,980.06		121,821.16	115,418.47	6,402.69
<b>Total Fee</b>					<b>6,402.69</b>

Billing Summary	Current	Prior	To-Date
Total Billings	6,402.69	115,418.47	121,821.16
Total Fee			291,980.06
Remaining Fee			170,158.90

**Total this Invoice \$6,402.69**

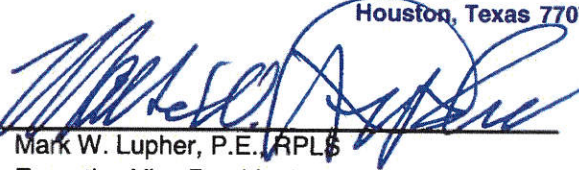
**Outstanding Invoices**

Number	Date	Balance
20152356	5/27/2015	6,002.05
<b>Total</b>		<b>6,002.05</b>

**Total Now Due \$12,404.74**

\*Supplemental Agreement No. 1 to Work Authorization No. 14 - \$75,987.00

**PLEASE REMIT PAYMENT TO:**  
**TEDSI Infrastructure Group, Inc.**  
**738 Highway 6 South, Suite 430**  
**Houston, Texas 77079**

Authorized By:   
Mark W. Luper, P.E., RPLS  
Executive Vice President

Date: 6/17/15



# AM TEST, INC.

13600 NE 126TH PL  
SUITE C  
KIRKLAND, WA 98034

Phone # 425-885-1664

# Invoice

DATE	INVOICE #
6/9/2015	86647

<b>BILL TO</b>
TEDSI INFRASTRUCTURE GROUP 1201 E. EXPRESSWAY 83 MISSION, TX 78572

PLEASE CHECK HERE IF YOU PREFER YOUR INVOICES AND STATEMENTS SENT BY E-MAIL. MY E-MAIL ADDRESS IS: _____
--

P.O. NO.	TERMS	PROJECT
PROJ# 2013-1128-...	Net 30	DRWMP

QUANTITY	DESCRIPTION	RATE	SERVICED	AMOUNT
1	HETEROTROPHIC PLATE COUNT	20.00		20.00
1	PH WATER	10.00		10.00
1	ALKALINITY	15.00		15.00
1	TOTAL ORGANIC CARBON-WATER	30.00		30.00
1	CHLORIDE	12.00		12.00
1	COLOR	10.00		10.00
1	HARDNESS	12.00		12.00
1	AMMONIA NITROGEN	15.00		15.00
1	NO2/NO3	25.00		25.00
1	TOTAL DISSOLVED SOLIDS	15.00		15.00
1	SULFATE	15.00		15.00
1	TURBIDITY ANALYSIS	10.00		10.00
1	DISSOLVED METALS	20.00		20.00
1	TOTAL METALS	70.00		70.00
1	SILICA	20.00		20.00
1	PESTICIDES	150.00		150.00
1	TOTAL SUSPENDED SOLIDS	15.00		15.00

SAMPLE NUMBER: 15-A007499

<b>TEDSI INFRASTRUCTURE GROUP</b>	
Project No. <u>2013-1128-14</u>	Phase No. <u>200</u>
<input checked="" type="checkbox"/> Lump Sum	<input checked="" type="checkbox"/> Approved
<input type="checkbox"/> Hourly	<input type="checkbox"/> Rejected
<input type="checkbox"/> Hold	<input type="checkbox"/> Process

TERMS: NET 30 DAYS PAST DUE ACCOUNTS 1/2 PERCENT INTEREST PER MONTH

**Total** \$464.00

WE ACCEPT VISA & MASTER CARD.

**Payments/Credits** \$0.00

EFFECTIVE IMMEDIATELY, ON INVOICES 60 DAYS PAST DUE A \$25 LATE FEE WILL BE CHARGED MONTHLY UNTIL INVOICE IS PAID.

**Balance Due** \$464.00



# AM TEST, INC.

13600 NE 126TH PL  
SUITE C  
KIRKLAND, WA 98034

Phone # 425-885-1664

# Invoice

DATE	INVOICE #
6/9/2015	86648

<b>BILL TO</b>
TEDSI INFRASTRUCTURE GROUP 1201 E. EXPRESSWAY 83 MISSION, TX 78572

_____ PLEASE CHECK HERE IF YOU PREFER YOUR INVOICES AND STATEMENTS SENT BY E-MAIL. MY E-MAIL ADDRESS IS: _____
---

P.O. NO.	TERMS	PROJECT
PROJ# 2013-1128-...	Net 30	DRWMP

QUANTITY	DESCRIPTION	RATE	SERVICED	AMOUNT
10	HETEROTROPHIC PLATE COUNT	20.00		200.00
10	PH WATER	10.00		100.00
10	ALKALINITY	15.00		150.00
10	TOTAL ORGANIC CARBON-WATER	30.00		300.00
10	CHLORIDE	12.00		120.00
10	COLOR	10.00		100.00
10	HARDNESS	12.00		120.00
10	AMMONIA NITROGEN	15.00		150.00
10	NO2/NO3	25.00		250.00
10	TOTAL DISSOLVED SOLIDS	15.00		150.00
10	SULFATE	15.00		150.00
10	TURBIDITY ANALYSIS	10.00		100.00
10	DISSOLVED METALS	20.00		200.00
10	TOTAL METALS	70.00		700.00
10	SILICA	20.00		200.00
10	PESTICIDES	150.00		1,500.00
10	TOTAL SUSPENDE SOLIDS	15.00		150.00

SAMPLE NUMBERS: 15-A007270-7279

<b>TEDSI INFRASTRUCTURE GROUP</b>		
Project No. <u>2013-1128-14</u>	Phase No. <u>200</u>	
<input checked="" type="checkbox"/> Lump Sum	<input checked="" type="checkbox"/> Approved	<input type="checkbox"/> Hold
<input type="checkbox"/> Hourly	<input type="checkbox"/> Rejected	<input type="checkbox"/> Process
Sign <u>MWL</u>	Date <u>6/17/15</u>	

TERMS: NET 30 DAYS PAST DUE ACCOUNTS 1 1/2 PERCENT INTEREST PER MONTH

WE ACCEPT VISA & MASTER CARD.

EFFECTIVE IMMEDIATELY, ON INVOICES 60 DAYS PAST DUE A \$25 LATE FEE WILL BE CHARGED MONTHLY UNTIL INVOICE IS PAID.

<b>Total</b>	\$4,640.00
<b>Payments/Credits</b>	\$0.00
<b>Balance Due</b>	\$4,640.00



**UTPA.**

GRANTS & CONTRACTS ACCOUNTING

THE UNIVERSITY OF TEXAS - PAN AMERICAN

1201 West University Drive • Edinburg, Texas 78539-2999 • (956) 665-2711 Office • (956) 665-7060 Fax

May 26, 2015

TEDSI Infrastructure Group  
1201 East Expressway 83  
Mission, TX 78572

RE: Project # 45EMEC021  
Invoice # 21968

## INVOICE

To bill in the amount of \$500.00 as per the Sponsored Project Agreement for the May 2015 installment. If you have any questions concerning this invoice, please do not hesitate to call or email Alicia Moreno, UTPA Grants and Contracts Accountant, at (956) 665-8709 or [morenoa@utpa.edu](mailto:morenoa@utpa.edu).

Sincerely,

Sara Gonzalez  
Interim Director Grants & Contacts

TEDSI INFRASTRUCTURE GROUP			
Project No.	2013-1128-14	Phase No.	200
<input checked="" type="checkbox"/> Lump Sum	<input checked="" type="checkbox"/> Approved	<input type="checkbox"/> Hold	
<input type="checkbox"/> Hourly	<input type="checkbox"/> Rejected	<input type="checkbox"/> Process	
Sign	<i>WML</i>	Date	6/17/15

**PROGRESS REPORT NO. 015**

Progress Period May 01, 2015 Through May 31, 2015

DESCRIPTION	ESTIMATED COST	PERCENT COMPLETE	INVOICE TO DATE	PREVIOUS INVOICE	AMOUNT DUE
<b>II. GCM FOR PRELIMINARY PROJECT PLANNING AND DEVELOPMENT</b>					
(5) Architect Services	\$70,128.10	0.00%	\$0.00	\$0.00	<b>\$0.00</b>
SUB TOTAL II					
	\$70,128.10	0.00%	\$0.00	\$0.00	<b>\$0.00</b>
<b>III. PRELIMINARY ENGINEERING, DESIGN AND CONSTRUCTION</b>					
<b>(A) PRELIMINARY ENGINEERING</b>					
(1) Preliminary Field Surveying	\$81,571.20	38.91%	\$31,742.54	\$31,742.54	<b>\$0.00</b>
(7) Raw Water Sampling and Analysis	\$64,293.76	67.03%	\$43,098.75	\$42,300.06	<b>\$798.69</b>
Water Analysis Sub	\$75,987.00	61.83%	\$46,979.87	\$41,375.87	<b>\$5,604.00</b>
SUB TOTAL III.A					
	\$221,851.96	54.91%	\$121,821.16	\$115,418.47	<b>\$6,402.69</b>
<b>TOTAL LABOR EXPENSES</b>					
	\$291,980.06	41.72%	\$121,821.16	\$115,418.47	<b>\$6,402.69</b>

**TOTAL INVOICE AMOUNT DUE: \$6,402.69**



Am Test Inc.  
13600 NE 126TH PL  
Suite C  
Kirkland, WA 98034  
(425) 885-1664

*Professional  
Analytical  
Services*

Jun 5 2015  
TEDSI Infrastructure Group  
1201 E. Expressway 83  
Mission, TX 78572  
Attention: Samantha Deleon

Dear Samantha Deleon:

Enclosed please find the analytical data for your DRWMP project.

The following is a cross correlation of client and laboratory identifications for your convenience.

CLIENT ID	MATRIX	AMTEST ID	TEST
Delta Lake	Water	15-A007499	Micro, CONV, MIN, DEM, NUT, MET

Your sample was received on Wednesday, May 20, 2015. At the time of receipt, the sample was logged in and properly maintained prior to the subsequent analysis.

The analytical procedures used at AmTest are well documented and are typically derived from the protocols of the EPA, USDA, FDA or the Army Corps of Engineers.

Following the analytical data you will find the Quality Control (QC) results.

Please note that the detection limits that are listed in the body of the report refer to the Practical Quantitation Limits (PQL's), as opposed to the Method Detection Limits (MDL's).

If you should have any questions pertaining to the data package, please feel free to contact me.

Sincerely,

  
Aaron W. Young  
Laboratory Manager

Project #: 2013-1128-14

BACT = Bacteriological  
CONV = Conventionals

MET = Metals  
ORG = Organics

NUT=Nutrients  
DEM=Demand

MIN=Minerals

Am Test Inc.  
 13600 NE 126TH PL  
 Suite C  
 Kirkland, WA 98034  
 (425) 885-1664  
 www.amtestlab.com



Professional  
 Analytical  
 Services

### ANALYSIS REPORT

TEDSI Infrastructure Group  
 1201 E. Expressway 83  
 Mission, TX 78572  
 Attention: Samantha Deleon  
 Project Name: DRWMP  
 Project #: 2013-1128-14  
 All results reported on an as received basis.

Date Received: 05/20/15  
 Date Reported: 6/ 5/15

AMTEST Identification Number    15-A007499  
 Client Identification                Delta Lake  
 Sampling Date                         05/19/15, 08:50

#### Microbiological

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE / TIME
Heterotrophic Plate Count	390000	CFU/mL		1	SM 9215B	NG	05/21/15 11:30

#### Conventionals

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
pH	7.07	unit	*	0.1	SM 4500H B	LY	05/20/15
Color	10.	unit		5	SM 2120 B	LY	05/20/15
Total Dissolved Solids	880	mg/l		1	SM 2540C	MR	05/26/15
Total Suspended Solids	43.	mg/l		1	SM 2540D	SW	05/22/15
Turbidity	22.	NTU		0.01	EPA 180.1	LY	05/20/15

#### Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Total Organic Carbon	7.4	mg/l		0.5	SM 5310B	SW	05/20/15

#### Minerals

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Alkalinity (as CaCO3)	84.	mg/l		1	SM 2320B	MR	06/01/15
C-Alkalinity (as CaCO3)	< 1	mg/l		1	SM 2320B	SW	05/27/15
Bicarbonate	26.	mg/l		1	SM 2320B	MR	06/01/15
Chloride	200.	mg/l		0.05	EPA 300.0	MR	05/22/15
Hardness (CaCO3)	350	mg/l		0.05	EPA 200.7 calc	CG	05/21/15
Sulfate	318.	mg/l		0.1	EPA 300.0	MR	05/22/15
Calcium	91.	mg/l		0.05	EPA 200.7	CG	05/21/15
Potassium	7.4	mg/l		0.1	EPA 200.7	CG	05/21/15
Magnesium	29.	mg/l		0.01	EPA 200.7	CG	05/21/15
Sodium	150	mg/l		0.05	EPA 200.7	CG	05/21/15

**Nutrients**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Ammonia Nitrogen	0.038	mg/l		0.005	EPA 350.1	MR	05/27/15
Nitrite	< 0.005	mg/l		0.005	EPA 300.0	MR	05/21/15
Nitrate	2.43	mg/l		0.025	EPA 300.0	MR	05/21/15

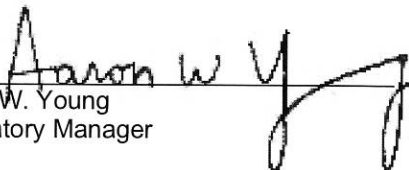
**Dissolved Metals**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Dissolved Iron	< 0.045	mg/l		0.04	EPA 200.7	CG	05/27/15
Dissolved Manganese	< 0.0025	mg/l		0.002	EPA 200.7	CG	05/27/15

**Total Metals**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Aluminum	1.16	mg/l		0.01	EPA 200.7	CG	05/21/15
Iron	0.767	mg/l		0.009	EPA 200.7	CG	05/21/15
Manganese	0.0159	mg/l		0.0009	EPA 200.7	CG	05/21/15
Silica as SiO <sub>2</sub>	7.8	mg/l		0.01	SM 4500-SiO <sub>2</sub>	MR	06/03/15

\* = The method specifies the test is to be performed in the field; therefore the result is an estimate.

  
Aaron W. Young  
Laboratory Manager

QC Summary for sample number: 15-A007499

**DUPLICATES**

SAMPLE #	ANALYTE	UNITS	SAMPLE VALUE	DUP VALUE	RPD
15-A007499	Heterotrophic Plate Count	CFU/mL	390000	330000	17.
15-A007525	pH	unit	8.03	8.04	0.12
15-A007538	pH	unit	7.05	7.03	0.28
15-A007361	Alkalinity (as CaCO3)	mg/l	110	110	0.00
15-A007896	Alkalinity (as CaCO3)	mg/l	110	110	0.00
15-A007272	C-Alkalinity (as CaCO3)	mg/l	< 1	< 1	
15-A007560	Bicarbonate	mg/l	110	110	0.00
15-A007182	Ammonia Nitrogen	mg/l	9.85	9.66	1.9
15-A007276	Ammonia Nitrogen	mg/l	0.060	0.059	1.7
15-A007824	Ammonia Nitrogen	mg/l	40.2	37.8	6.2
15-A007562	Nitrate	mg/l	0.120	0.124	3.3
15-A007722	Nitrate	mg/l	< 0.025	< 0.025	
15-A007562	Nitrite	mg/l	< 0.005	< 0.005	
15-A007722	Nitrite	mg/l	< 0.005	< 0.005	
15-A007815	Total Dissolved Solids	mg/l	40000	38000	5.1
15-A007277	Total Suspended Solids	mg/l	58.	58.	0.00
15-A007511	Total Suspended Solids	mg/l	4.0	2.0	67.
15-A007521	Total Suspended Solids	mg/l	< 1	1.0	
15-A007582	Total Suspended Solids	mg/l	7.0	6.0	15.
15-A007601	Total Suspended Solids	mg/l	5.0	5.0	0.00
15-A007525	Turbidity	NTU	0.13	0.12	8.0

**MATRIX SPIKES**

SAMPLE #	ANALYTE	UNITS	SAMPLE VALUE	SMPL+ SPK	SPK AMT	RECOVERY
15-A006792	Total Organic Carbon	mg/l	3.7	51.	50.	94.60 %
15-A006886	Total Organic Carbon	mg/l	17.	65.	50.	96.00 %
15-A007200	Total Organic Carbon	mg/l	5.8	55.	50.	98.40 %
15-A007274	Total Organic Carbon	mg/l	11.	55.	50.	88.00 %
15-A007182	Ammonia Nitrogen	mg/l	9.85	15.1	5.00	105.00 %
15-A007276	Ammonia Nitrogen	mg/l	0.060	0.557	0.500	99.40 %
15-A007824	Ammonia Nitrogen	mg/l	40.2	92.5	50.0	104.60 %
15-A007562	Nitrate	mg/l	0.120	2.11	2.00	99.50 %
15-A007722	Nitrate	mg/l	< 0.025	1.96	2.00	98.00 %
15-A007562	Nitrite	mg/l	< 0.005	1.93	2.00	96.50 %
15-A007722	Nitrite	mg/l	< 0.005	1.73	2.00	86.50 %
15-A007270	Aluminum	mg/l	1.50	12.6	11.0	100.91 %
15-A007270	Aluminum	mg/l	1.50	12.7	11.0	101.82 %
15-A007270	Calcium	mg/l	200	450	250	100.00 %
15-A007270	Calcium	mg/l	200	460	250	104.00 %
15-A007313	Calcium	mg/l	4.2	30.	26.	99.23 %

**MATRIX SPIKES continued....**

SAMPLE #	ANALYTE	UNITS	SAMPLE VALUE	SMPL+ SPK	SPK AMT	RECOVERY
15-A007313	Calcium	mg/l	4.2	31.	26.	103.08 %
15-A007526	Calcium	mg/l	50.	83.	32.	103.12 %
15-A007526	Calcium	mg/l	50.	83.	32.	103.12 %
15-A007270	Iron	mg/l	0.517	10.6	11.0	91.66 %
15-A007270	Iron	mg/l	0.517	10.9	11.0	94.39 %
15-A007526	Iron	mg/l	0.495	14.3	13.8	100.04 %
15-A007526	Iron	mg/l	0.495	14.4	13.8	100.76 %
15-A007499	Dissolved Iron	mg/l	< 0.045	54.1	68.8	78.63 %
15-A007499	Dissolved Iron	mg/l	< 0.045	54.1	68.8	78.63 %
15-A007270	Potassium	mg/l	14.	25.	10.	110.00 %
15-A007270	Potassium	mg/l	14.	25.	10.	110.00 %
15-A007313	Potassium	mg/l	0.45	9.9	10.	94.50 %
15-A007313	Potassium	mg/l	0.45	9.9	10.	94.50 %
15-A007270	Magnesium	mg/l	69.	310	250	96.40 %
15-A007270	Magnesium	mg/l	69.	310	250	96.40 %
15-A007313	Magnesium	mg/l	0.42	25.	26.	94.54 %
15-A007313	Magnesium	mg/l	0.42	25.	26.	94.54 %
15-A007526	Magnesium	mg/l	19.	50.	32.	96.88 %
15-A007526	Magnesium	mg/l	19.	50.	32.	96.88 %
15-A007270	Manganese	mg/l	0.0921	0.959	1.00	86.69 %
15-A007270	Manganese	mg/l	0.0921	0.981	1.00	88.89 %
15-A007526	Manganese	mg/l	0.140	1.32	1.25	94.40 %
15-A007526	Manganese	mg/l	0.140	1.32	1.25	94.40 %
15-A007499	Dissolved Manganese	mg/l	< 0.0025	4.629	6.250	74.06 %
15-A007499	Dissolved Manganese	mg/l	< 0.0025	4.602	6.250	73.63 %
15-A007270	Sodium	mg/l	600	820	250	88.00 %
15-A007270	Sodium	mg/l	600	820	250	88.00 %
15-A007313	Sodium	mg/l	3.4	31.	26.	106.15 %
15-A007313	Sodium	mg/l	3.4	31.	26.	106.15 %
15-A007276	Silica as SiO2	mg/l	7.8	11.	4.7	68.09 %
15-A007276	Silica as SiO2	mg/l	7.8	11.	4.7	68.09 %

**MATRIX SPIKE DUPLICATES**

SAMPLE #	ANALYTE	UNITS	SAMPLE + SPK	MSD VALUE	RPD
Spike	Aluminum	mg/l	12.6	12.7	0.79
Spike	Calcium	mg/l	450	460	2.2
Spike	Calcium	mg/l	30.	31.	3.3
Spike	Calcium	mg/l	83.	83.	0.00
Spike	Iron	mg/l	10.6	10.9	2.8
Spike	Iron	mg/l	14.3	14.4	0.70
Spike	Dissolved Iron	mg/l	54.1	54.1	0.00
Spike	Potassium	mg/l	25.	25.	0.00
Spike	Potassium	mg/l	9.9	9.9	0.00
Spike	Magnesium	mg/l	310	310	0.00
Spike	Magnesium	mg/l	25.	25.	0.00
Spike	Magnesium	mg/l	50.	50.	0.00
Spike	Manganese	mg/l	0.959	0.981	2.3
Spike	Manganese	mg/l	1.32	1.32	0.00
Spike	Dissolved Manganese	mg/l	4.629	4.602	0.58
Spike	Sodium	mg/l	820	820	0.00
Spike	Sodium	mg/l	31.	31.	0.00
Spike	Silica as SiO2	mg/l	11.	11.	0.00

**STANDARD REFERENCE MATERIALS**

ANALYTE	UNITS	TRUE VALUE	MEASURED VALUE	RECOVERY
pH	unit	6.86	6.81	99.3 %
Alkalinity (as CaCO <sub>3</sub> )	mg/l	240	250	104. %
Alkalinity (as CaCO <sub>3</sub> )	mg/l	240	260	108. %
Alkalinity (as CaCO <sub>3</sub> )	mg/l	240	260	108. %
C-Alkalinity (as CaCO <sub>3</sub> )	mg/l	240	240	100. %
Total Organic Carbon	mg/l	50.	48.	96.0 %
Total Organic Carbon	mg/l	50.	48.	96.0 %
Total Organic Carbon	mg/l	50.	46.	92.0 %
Chloride	mg/l	2.00	2.12	106. %
Ammonia Nitrogen	mg/l	0.500	0.526	105. %
Ammonia Nitrogen	mg/l	0.500	0.539	108. %
Nitrate	mg/l	2.00	1.95	97.5 %
Nitrite	mg/l	2.00	1.82	91.0 %
Total Dissolved Solids	mg/l	350	370	106. %
Total Suspended Solids	mg/l	100	100	100. %
Total Suspended Solids	mg/l	100	100	100. %
Total Suspended Solids	mg/l	100	110	110. %
Sulfate	mg/l	2.00	2.11	106. %
Turbidity	NTU	1.7	1.7	100. %
Aluminum	mg/l	4.00	4.02	100. %
Calcium	mg/l	4.0	4.0	100. %
Calcium	mg/l	4.0	4.1	102. %
Iron	mg/l	4.00	3.77	94.2 %
Iron	mg/l	4.00	3.82	95.5 %
Dissolved Iron	mg/l	4.00	3.95	98.8 %
Potassium	mg/l	4.0	4.2	105. %
Magnesium	mg/l	4.0	3.9	97.5 %
Magnesium	mg/l	4.0	3.9	97.5 %
Manganese	mg/l	0.800	0.830	104. %
Manganese	mg/l	0.800	0.842	105. %
Dissolved Manganese	mg/l	0.8000	0.8380	105. %
Sodium	mg/l	4.0	4.4	110. %
Silica as SiO <sub>2</sub>	mg/l	4.7	4.8	102. %

**BLANKS**

ANALYTE	UNITS	RESULT
Heterotrophic Plate Count	CFU/mL	< 1
Alkalinity (as CaCO <sub>3</sub> )	mg/l	< 1
Alkalinity (as CaCO <sub>3</sub> )	mg/l	< 1
Alkalinity (as CaCO <sub>3</sub> )	mg/l	< 1
C-Alkalinity (as CaCO <sub>3</sub> )	mg/l	< 1
Bicarbonate	mg/l	< 1
Total Organic Carbon	mg/l	< 0.5
Total Organic Carbon	mg/l	< 0.5

**BLANKS continued....**

ANALYTE	UNITS	RESULT
Total Organic Carbon	mg/l	< 0.5
Chloride	mg/l	< 0.05
Ammonia Nitrogen	mg/l	< 0.005
Ammonia Nitrogen	mg/l	< 0.005
Nitrate	mg/l	< 0.025
Nitrite	mg/l	< 0.005
Total Dissolved Solids	mg/l	< 1
Total Suspended Solids	mg/l	< 1
Total Suspended Solids	mg/l	< 1
Sulfate	mg/l	< 0.1
Turbidity	NTU	< 0.05
Aluminum	mg/l	< 0.01
Calcium	mg/l	0.12
Calcium	mg/l	< 0.05
Iron	mg/l	< 0.009
Iron	mg/l	< 0.009
Dissolved Iron	mg/l	< 0.009
Potassium	mg/l	< 0.1
Magnesium	mg/l	< 0.01
Magnesium	mg/l	< 0.01
Manganese	mg/l	< 0.0009
Manganese	mg/l	< 0.0009
Dissolved Manganese	mg/l	< 0.0005
Sodium	mg/l	0.15
Sodium	mg/l	< 0.05
Silica as SiO2	mg/l	< 0.01



# AmTest Chain of Custody Record

13600 NE 126<sup>th</sup> PL, Suite C, Kirkland, WA 98034  
 Ph (425) 885-1664 Fx (425) 820-0245  
 www.amtestlab.com

Chain of Custody No. **21693**

Client Name & Address: TEDSI 1201 E EXPRESSWAY 83 MISSION, TX 78572			Invoice To:  / /									
Contact Person: SAMANTHA DELEON			Invoice Contact:									
Phone No: 956-424-7898			PO Number:									
Fax No:			Invoice Ph/Fax:									
E-mail: SDELEON@TEDSI.COM			Invoice E-mail:									
Report Delivery: (Choose all that apply) Mail / Fax / <u>Email</u> / Posted Online			Data posted to online account: YES / NO Web Login ID:									
Special Instructions:												
Requested TAT: (Rush must be pre-approved by lab) Standard RUSH ( 5 Day / 3 Day / 48 HR / 24 HR )				Temperature upon Receipt: 20.9								
Project Name: DRWMP		Date Sampled	Time Sampled	Matrix	No. of containers	Analysis Requested						
Project Number: 2013-1128-14												
AmTest ID	Client ID (35 characters max)					Attached					QA/QC	
7499	DELTA LAKE	5/19/15	8:50AM	DW	8							
Collected/Relinquished By:		Date	Time	Received By:		Date	Time					
						5/20/15	9:40					
Relinquished By:		Date	Time	Received By:		Date	Time					
Relinquished By:		Date	Time	Received By:		Date	Time					

COMMENTS:

*FedEx*

List of Analysis Requested		
1	Color	(Pt-Co unit)
2	Alkalinity	(mg/L)
3	Silica	(mg/L as CaCO <sub>3</sub> )
4	Total Hardness	(mg/L as CaCO <sub>3</sub> )
5	Sodium	(mg/L as Na)
6	Magnesium	(mg/L as Mg)
7	Calcium	(mg/L as Ca)
8	Potassium	(mg/L as K)
9	Chloride	(mg/L as Cl)
10	Aluminum	(mg/L as Al)
11	Iron (Total and Dissolved)	(mg/L as Fe)
12	Manganese (Total and Dissolved)	(mg/L as Mn)
13	Total NO <sub>2</sub> -N, NO <sub>3</sub> -N	
14	Sulfate	(mg/L as SO <sub>4</sub> )
15	Total Organic Carbon	(mg/L)
16	Bacterial Analysis (Total Plate Count)	
17	Carbonate	(mg/L as CO <sub>3</sub> )
18	Bicarbonate	(mg/L as HCO <sub>3</sub> -)
19	Pesticides	
20	Ammonium	
21	Turbidity	(NTU)
22	Total Dissolved Solids	(mg/L)
23	pH	
24	Total Suspended Solids	(mg/L)

# Anatek Labs, Inc.

1282 Alturas Drive • Moscow, ID 83843 • (208) 883-2839 • Fax (208) 882-9246 • email moscow@anateklabs.com  
504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

## Synthetic Organic Chemicals (SOC's) Analysis Report EPA Test Method - EPA 505

System ID#:	System Name: TEDSI INFRASTRUCTURE	
Lab/Sample Number: 125 60307	Collect Date: 5/19/2015	DOH Source #:
Multiple Source Nos:	Sample Type:	Sample Purpose:
Date Received: 5/21/2015	Date Reported: 6/5/2015	Supervisor: JWC
Date Analyzed: 5/29/2015		
County:	Sample Location: 7499	
Report To:	Address: 1201 E. EXPRESSWAY 83	
	City, State, ZIP MISSION, TX 78572	
	Phone Number:	

### EPA Regulated

DOH #	Analytes	Result	Units	SRL	Trigger	MCL	Method	Analyst	Qualifier
0033	Endrin	ND	ug/L	0.01	0.01	2	EPA 505	MAH	
0034	Lindane (BHC gamma)	ND	ug/L	0.02	0.02	0.2	EPA 505	MAH	
0035	Methoxychlor	ND	ug/L	0.1	0.1	40	EPA 505	MAH	
0036	Toxaphene	ND	ug/L	1	1	3	EPA 505	MAH	
0122	Chlordane (Total)	ND	ug/L	0.2	0.2	2	EPA 505	MAH	

### EPA Unregulated

DOH #	Analytes	Result	Units	SRL	Trigger	MCL	Method	Analyst	Qualifier
0118	Aldrin	ND	ug/L	0.2	0.2		EPA 505	MAH	
0123	Dieldrin	ND	ug/L	0.1	0.1		EPA 505	MAH	
0173	Aroclor 1221	ND	ug/L	20	20		EPA 505	MAH	
0174	Aroclor 1232	ND	ug/L	0.5	0.5		EPA 505	MAH	
0175	Aroclor 1242	ND	ug/L	0.3	0.3		EPA 505	MAH	
0176	Aroclor 1248	ND	ug/L	0.1	0.1		EPA 505	MAH	
0177	Aroclor 1254	ND	ug/L	0.1	0.1		EPA 505	MAH	
0178	Aroclor 1260	ND	ug/L	0.2	0.2		EPA 505	MAH	
0180	Aroclor 1016	ND	ug/L	0.08	0.08		EPA 505	MAH	

### State Unregulated

DOH #	Analytes	Result	Units	SRL	Trigger	MCL	Method	Analyst	Qualifier
0233	4,4'-DDE	ND	ug/L	0.1	0.1		EPA 505	MAH	
0232	4,4'-DDD	ND	ug/L	0.1	0.1		EPA 505	MAH	
0234	4,4'-DDT	ND	ug/L	0.1	0.1		EPA 505	MAH	

**Notes:** ND = Not Detected within the sensitivity of the instrument  
Numerical Entry = Detection at level indicated  
SRL - Minimum reporting level for Washington DOH  
MCL - EPA maximum contaminant level  
Trigger - Washington DOH response level. If results exceed this level, contact the DOH

This report shall not be reproduced except in full, without the written approval of the laboratory.  
The results reported relate only to the samples indicated.  
Soil/solid results are reported on a dry-weight basis unless otherwise noted.

Lab Supervisor: \_\_\_\_\_



Date: 6/5/2015



**Am Test Inc.**  
 13600 NE 126TH PL  
 Suite C  
 Kirkland, WA 98034  
 (425) 885-1664

**Professional  
 Analytical  
 Services**

Jun 5 2015  
 TEDSI Infrastructure Group  
 1201 E. Expressway 83  
 Mission, TX 78572  
 Attention: Samantha Deleon

Dear Samantha Deleon:

Enclosed please find the analytical data for your project.

The following is a cross correlation of client and laboratory identifications for your convenience.

CLIENT ID	MATRIX	AMTEST ID	TEST
Site 1	Water	15-A007270	Micro, CONV, MIN, DEM, NUT, MET
Site 2	Water	15-A007271	Micro, CONV, MIN, DEM, NUT, MET
Site 3	Water	15-A007272	Micro, CONV, MIN, DEM, NUT, MET
Site 4	Water	15-A007273	Micro, CONV, MIN, DEM, NUT, MET
Site 5	Water	15-A007274	Micro, CONV, MIN, DEM, NUT, MET
Santa Cruz Irr Intake	Water	15-A007275	Micro, CONV, MIN, DEM, NUT, MET
Delta Irr Intake	Water	15-A007276	Micro, CONV, MIN, DEM, NUT, MET
Engleman Irr	Water	15-A007277	Micro, CONV, MIN, DEM, NUT, MET
Channel @ LE	Water	15-A007278	Micro, CONV, MIN, DEM, NUT, MET
Lake Edinburg	Water	15-A007279	Micro, CONV, MIN, DEM, NUT, MET

Your samples were received on Tuesday, May 19, 2015. At the time of receipt, the samples were logged in and properly maintained prior to the subsequent analysis.

The analytical procedures used at AmTest are well documented and are typically derived from the protocols of the EPA, USDA, FDA or the Army Corps of Engineers.

Following the analytical data you will find the Quality Control (QC) results.

Please note that the detection limits that are listed in the body of the report refer to the Practical Quantitation Limits (PQL's), as opposed to the Method Detection Limits (MDL's).

If you should have any questions pertaining to the data package, please feel free to contact me.

Sincerely,

  
 Aaron W. Young  
 Laboratory Manager

BACT = Bacteriological  
 CONV = Conventional

MET = Metals  
 ORG = Organics

NUT=Nutrients  
 DEM=Demand

MIN=Minerals

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 www.amtestlab.com



Professional  
 Analytical  
 Services

### ANALYSIS REPORT

TEDSI Infrastructure Group  
 1201 E. Expressway 83  
 Mission, TX 78572  
 Attention: Samantha Deleon  
 All results reported on an as received basis.

Date Received: 05/19/15  
 Date Reported: 6/ 5/15

**AMTEST Identification Number** 15-A007270  
**Client Identification** Site 1  
**Sampling Date** 05/18/15

#### Microbiological

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE / TIME
Heterotrophic Plate Count	95000	CFU/mL		1	SM 9215B	NG	05/19/15 10:30

#### Conventionals

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
pH	7.32	unit	*	0.1	SM 4500H B	HL	05/20/15
Color	10.	unit		5	SM 2120 B	HL	05/20/15
Total Dissolved Solids	2800	mg/l		1	SM 2540C	SW	05/22/15
Total Suspended Solids	53.	mg/l		1	SM 2540D	SW	05/22/15
Turbidity	21.	NTU		0.01	EPA 180.1	HL	05/20/15

#### Demand

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Total Organic Carbon	8.1	mg/l		0.5	SM 5310B	SW	05/20/15

#### Minerals

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Alkalinity (as CaCO3)	420	mg/l		1	SM 2320B	SW	05/27/15
C-Alkalinity (as CaCO3)	84.	mg/l		1	SM 2320B	SW	05/27/15
Bicarbonate	330	mg/l		1	SM 2320B	MR	06/01/15
Chloride	1090	mg/l		0.05	EPA 300.0	MR	05/20/15
Hardness (CaCO3)	780	mg/l		0.05	EPA 200.7 calc	CG	05/21/15
Sulfate	1060	mg/l		0.1	EPA 300.0	MR	05/20/15
Calcium	200	mg/l		0.05	EPA 200.7	CG	05/21/15
Potassium	14.	mg/l		0.1	EPA 200.7	CG	05/21/15
Magnesium	69.	mg/l		0.01	EPA 200.7	CG	05/21/15
Sodium	600	mg/l		0.05	EPA 200.7	CG	05/21/15

**Nutrients**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Ammonia Nitrogen	0.198	mg/l		0.005	EPA 350.1	MR	05/27/15
Nitrite	< 0.005	mg/l		0.005	EPA 300.0	MR	05/19/15
Nitrate	< 0.025	mg/l		0.025	EPA 300.0	MR	05/19/15

**Dissolved Metals**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Dissolved Iron	< 0.009	mg/l		0.009	EPA 200.7	CG	05/21/15
Dissolved Manganese	< 0.0005	mg/l		0.0005	EPA 200.7	CG	05/21/15

**Total Metals**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Aluminum	1.50	mg/l		0.01	EPA 200.7	CG	05/21/15
Iron	0.517	mg/l		0.009	EPA 200.7	CG	05/21/15
Manganese	0.0921	mg/l		0.0009	EPA 200.7	CG	05/21/15
Silica as SiO <sub>2</sub>	16.	mg/l		0.01	SM 4500-SiO <sub>2</sub>	MR	06/03/15

**AMTEST Identification Number**      15-A007271  
**Client Identification**                Site 2  
**Sampling Date**                            05/18/15

**Microbiological**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE / TIME
Heterotrophic Plate Count	110000	CFU/mL		1	SM 9215B	NG	05/19/15 10:30

**Conventionals**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
pH	7.84	unit	*	0.1	SM 4500H B	HL	05/20/15
Color	10.	unit		5	SM 2120 B	HL	05/20/15
Total Dissolved Solids	3100	mg/l		1	SM 2540C	SW	05/22/15
Total Suspended Solids	36.	mg/l		1	SM 2540D	SW	05/22/15
Turbidity	7.7	NTU		0.01	EPA 180.1	HL	05/20/15

**Demand**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Total Organic Carbon	10.	mg/l		0.5	SM 5310B	SW	05/20/15

**Minerals**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Alkalinity (as CaCO3)	260	mg/l		1	SM 2320B	SW	05/27/15
C-Alkalinity (as CaCO3)	< 1	mg/l		1	SM 2320B	SW	05/27/15
Bicarbonate	260	mg/l		1	SM 2320B	MR	06/01/15
Chloride	1000	mg/l		0.05	EPA 300.0	MR	05/20/15
Hardness (CaCO3)	860	mg/l		0.05	EPA 200.7 calc	CG	05/21/15
Sulfate	1020	mg/l		0.1	EPA 300.0	MR	05/20/15
Calcium	220	mg/l		0.05	EPA 200.7	CG	05/21/15
Potassium	9.7	mg/l		0.1	EPA 200.7	CG	05/21/15
Magnesium	76.	mg/l		0.01	EPA 200.7	CG	05/21/15
Sodium	540	mg/l		0.05	EPA 200.7	CG	05/21/15

**Nutrients**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Ammonia Nitrogen	0.028	mg/l		0.005	EPA 350.1	MR	05/27/15
Nitrite	< 0.005	mg/l		0.005	EPA 300.0	MR	05/19/15
Nitrate	1.49	mg/l		0.025	EPA 300.0	MR	05/19/15

**Dissolved Metals**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Dissolved Iron	< 0.009	mg/l		0.009	EPA 200.7	CG	05/21/15
Dissolved Manganese	< 0.0005	mg/l		0.0005	EPA 200.7	CG	05/21/15

**Total Metals**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Aluminum	1.17	mg/l		0.01	EPA 200.7	CG	05/21/15
Iron	0.348	mg/l		0.009	EPA 200.7	CG	05/21/15
Manganese	< 0.0009	mg/l		0.0009	EPA 200.7	CG	05/21/15
Silica as SiO2	6.4	mg/l		0.01	SM 4500-SiO2	MR	06/03/15

**AMTEST Identification Number** 15-A007272  
**Client Identification** Site 3  
**Sampling Date** 05/18/15

**Microbiological**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE / TIME
Heterotrophic Plate Count	75000	CFU/mL		1	SM 9215B	NG	05/19/15 10:30

**Conventionals**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
pH	7.67	unit	*	0.1	SM 4500H B	HL	05/20/15
Color	5.	unit		5	SM 2120 B	HL	05/20/15
Total Dissolved Solids	3600	mg/l		1	SM 2540C	SW	05/22/15
Total Suspended Solids	67.	mg/l		1	SM 2540D	SW	05/22/15
Turbidity	27.	NTU		0.01	EPA 180.1	HL	05/20/15

**Demand**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Total Organic Carbon	7.7	mg/l		0.5	SM 5310B	SW	05/20/15

**Minerals**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Alkalinity (as CaCO3)	280	mg/l		1	SM 2320B	SW	05/27/15
C-Alkalinity (as CaCO3)	< 1	mg/l		1	SM 2320B	SW	05/27/15
Bicarbonate	280	mg/l		1	SM 2320B	MR	06/01/15
Chloride	1120	mg/l		0.05	EPA 300.0	MR	05/20/15
Hardness (CaCO3)	980	mg/l		0.05	EPA 200.7 calc	CG	05/21/15
Sulfate	983.	mg/l		0.1	EPA 300.0	MR	05/20/15
Calcium	250	mg/l		0.05	EPA 200.7	CG	05/21/15
Potassium	12.	mg/l		0.1	EPA 200.7	CG	05/21/15
Magnesium	86.	mg/l		0.01	EPA 200.7	CG	05/21/15
Sodium	660	mg/l		0.05	EPA 200.7	CG	05/21/15

**Nutrients**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Ammonia Nitrogen	0.101	mg/l		0.005	EPA 350.1	MR	05/27/15
Nitrite	< 0.005	mg/l		0.005	EPA 300.0	MR	05/19/15
Nitrate	4.38	mg/l		0.025	EPA 300.0	MR	05/20/15

**Dissolved Metals**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Dissolved Iron	0.016	mg/l		0.009	EPA 200.7	CG	05/21/15
Dissolved Manganese	< 0.0005	mg/l		0.0005	EPA 200.7	CG	05/21/15

**Total Metals**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Aluminum	1.63	mg/l		0.01	EPA 200.7	CG	05/21/15
Iron	0.540	mg/l		0.009	EPA 200.7	CG	05/21/15
Manganese	0.135	mg/l		0.0009	EPA 200.7	CG	05/21/15
Silica as SiO2	19.	mg/l		0.01	SM 4500-SiO2	MR	06/03/15

**AMTEST Identification Number**      **15-A007273**  
**Client Identification**                      **Site 4**  
**Sampling Date**                                      **05/18/15**

**Microbiological**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE / TIME
Heterotrophic Plate Count	140000	CFU/mL		1	SM 9215B	NG	05/19/15 10:30

**Conventionals**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
pH	7.63	unit	*	0.1	SM 4500H B	HL	05/20/15
Color	15.	unit		5	SM 2120 B	HL	05/20/15
Total Dissolved Solids	2700	mg/l		1	SM 2540C	SW	05/22/15
Total Suspended Solids	53.	mg/l		1	SM 2540D	SW	05/22/15
Turbidity	21.	NTU		0.01	EPA 180.1	HL	05/20/15

**Demand**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Total Organic Carbon	9.7	mg/l		0.5	SM 5310B	SW	05/20/15

**Minerals**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Alkalinity (as CaCO3)	220	mg/l		1	SM 2320B	SW	05/27/15
C-Alkalinity (as CaCO3)	< 1	mg/l		1	SM 2320B	SW	05/27/15
Bicarbonate	220	mg/l		1	SM 2320B	MR	06/01/15
Chloride	1000	mg/l		0.05	EPA 300.0	MR	05/22/15
Hardness (CaCO3)	780	mg/l		0.05	EPA 200.7 calc	CG	05/21/15
Sulfate	744.	mg/l		0.1	EPA 300.0	MR	05/22/15
Calcium	200	mg/l		0.05	EPA 200.7	CG	05/21/15
Potassium	13.	mg/l		0.1	EPA 200.7	CG	05/21/15
Magnesium	69.	mg/l		0.01	EPA 200.7	CG	05/21/15
Sodium	510	mg/l		0.05	EPA 200.7	CG	05/21/15

**Nutrients**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Ammonia Nitrogen	0.105	mg/l		0.005	EPA 350.1	MR	05/27/15
Nitrite	< 0.005	mg/l		0.005	EPA 300.0	MR	05/19/15
Nitrate	2.95	mg/l		0.025	EPA 300.0	MR	05/21/15

**Dissolved Metals**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Dissolved Iron	< 0.009	mg/l		0.009	EPA 200.7	CG	05/21/15
Dissolved Manganese	< 0.0005	mg/l		0.0005	EPA 200.7	CG	05/21/15

**Total Metals**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Aluminum	1.38	mg/l		0.01	EPA 200.7	CG	05/21/15
Iron	0.476	mg/l		0.009	EPA 200.7	CG	05/21/15
Manganese	0.0452	mg/l		0.0009	EPA 200.7	CG	05/21/15
Silica as SiO2	18.	mg/l		0.01	SM 4500-SiO2	MR	06/03/15

**AMTEST Identification Number** 15-A007274  
**Client Identification** Site 5  
**Sampling Date** 05/18/15

**Microbiological**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE / TIME
Heterotrophic Plate Count	200000	CFU/mL		1	SM 9215B	NG	05/19/15 10:30

**Conventionals**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
pH	7.84	unit	*	0.1	SM 4500H B	HL	05/20/15
Color	5.	unit		5	SM 2120 B	HL	05/20/15
Total Dissolved Solids	3100	mg/l		1	SM 2540C	SW	05/22/15
Total Suspended Solids	52.	mg/l		1	SM 2540D	SW	05/22/15
Turbidity	16.	NTU		0.01	EPA 180.1	HL	05/20/15

**Demand**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Total Organic Carbon	11.	mg/l		0.5	SM 5310B	SW	05/20/15

**Minerals**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Alkalinity (as CaCO3)	230	mg/l		1	SM 2320B	SW	05/27/15
C-Alkalinity (as CaCO3)	< 1	mg/l		1	SM 2320B	SW	05/27/15
Bicarbonate	230	mg/l		1	SM 2320B	MR	06/01/15
Chloride	1060	mg/l		0.05	EPA 300.0	MR	05/22/15
Hardness (CaCO3)	830	mg/l		0.05	EPA 200.7 calc	CG	05/21/15
Sulfate	902.	mg/l		0.1	EPA 300.0	MR	05/22/15
Calcium	210	mg/l		0.05	EPA 200.7	CG	05/21/15
Potassium	12.	mg/l		0.1	EPA 200.7	CG	05/21/15
Magnesium	74.	mg/l		0.01	EPA 200.7	CG	05/21/15
Sodium	550	mg/l		0.05	EPA 200.7	CG	05/21/15

**Nutrients**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Ammonia Nitrogen	0.023	mg/l		0.005	EPA 350.1	MR	05/27/15
Nitrite	< 0.005	mg/l		0.005	EPA 300.0	MR	05/19/15
Nitrate	3.21	mg/l		0.025	EPA 300.0	MR	05/21/15

**Dissolved Metals**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Dissolved Iron	< 0.009	mg/l		0.009	EPA 200.7	CG	05/21/15
Dissolved Manganese	< 0.0005	mg/l		0.0005	EPA 200.7	CG	05/21/15

**Total Metals**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Aluminum	0.96	mg/l		0.01	EPA 200.7	CG	05/21/15
Iron	0.219	mg/l		0.009	EPA 200.7	CG	05/21/15
Manganese	< 0.0009	mg/l		0.0009	EPA 200.7	CG	05/21/15
Silica as SiO2	17.	mg/l		0.01	SM 4500-SiO2	MR	06/03/15

**AMTEST Identification Number**      15-A007275  
**Client Identification**                Santa Cruz Irr Intake  
**Sampling Date**                            05/18/15

**Microbiological**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE / TIME
Heterotrophic Plate Count	45000	CFU/mL		1	SM 9215B	NG	05/19/15 10:30

**Conventionals**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
pH	8.23	unit	*	0.1	SM 4500H B	HL	05/20/15
Color	5.	unit		5	SM 2120 B	HL	05/20/15
Total Dissolved Solids	960	mg/l		1	SM 2540C	SW	05/22/15
Total Suspended Solids	43.	mg/l		1	SM 2540D	SW	05/22/15
Turbidity	22.	NTU		0.01	EPA 180.1	HL	05/20/15

**Demand**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Total Organic Carbon	6.2	mg/l		0.5	SM 5310B	SW	05/20/15

**Minerals**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Alkalinity (as CaCO3)	110	mg/l		1	SM 2320B	MR	06/01/15
C-Alkalinity (as CaCO3)	< 1	mg/l		1	SM 2320B	SW	05/27/15
Bicarbonate	110	mg/l		1	SM 2320B	MR	06/01/15
Chloride	353.	mg/l		0.05	EPA 300.0	MR	05/20/15
Hardness (CaCO3)	330	mg/l		0.05	EPA 200.7 calc	CG	05/21/15
Sulfate	772.	mg/l		0.1	EPA 300.0	MR	05/20/15
Calcium	83.	mg/l		0.05	EPA 200.7	CG	05/21/15
Potassium	6.6	mg/l		0.1	EPA 200.7	CG	05/21/15
Magnesium	29.	mg/l		0.01	EPA 200.7	CG	05/21/15
Sodium	130	mg/l		0.05	EPA 200.7	CG	05/21/15

**Nutrients**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Ammonia Nitrogen	0.024	mg/l		0.005	EPA 350.1	MR	05/27/15
Nitrite	< 0.005	mg/l		0.005	EPA 300.0	MR	05/19/15
Nitrate	0.125	mg/l		0.025	EPA 300.0	MR	05/19/15

**Dissolved Metals**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Dissolved Iron	< 0.009	mg/l		0.009	EPA 200.7	CG	05/21/15
Dissolved Manganese	< 0.0005	mg/l		0.0005	EPA 200.7	CG	05/21/15

**Total Metals**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Aluminum	0.41	mg/l		0.01	EPA 200.7	CG	05/21/15
Iron	0.201	mg/l		0.009	EPA 200.7	CG	05/21/15
Manganese	< 0.0009	mg/l		0.0009	EPA 200.7	CG	05/21/15
Silica as SiO <sub>2</sub>	6.0	mg/l		0.01	SM 4500-SiO <sub>2</sub>	MR	06/03/15

**AMTEST Identification Number** 15-A007276  
**Client Identification** Delta Irr Intake  
**Sampling Date** 05/18/15

**Microbiological**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE / TIME
Heterotrophic Plate Count	49000	CFU/mL		1	SM 9215B	NG	05/19/15 10:30

**Conventionals**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
pH	7.71	unit	*	0.1	SM 4500H B	HL	05/20/15
Color	5.	unit		5	SM 2120 B	HL	05/20/15
Total Dissolved Solids	920	mg/l		1	SM 2540C	SW	05/22/15
Total Suspended Solids	120	mg/l		1	SM 2540D	SW	05/22/15
Turbidity	59.	NTU		0.01	EPA 180.1	HL	05/20/15

**Demand**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Total Organic Carbon	31.	mg/l		0.5	SM 5310B	SW	05/20/15

**Minerals**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Alkalinity (as CaCO3)	120	mg/l		1	SM 2320B	MR	06/01/15
C-Alkalinity (as CaCO3)	< 1	mg/l		1	SM 2320B	SW	05/27/15
Bicarbonate	120	mg/l		1	SM 2320B	MR	06/01/15
Chloride	232.	mg/l		0.05	EPA 300.0	MR	05/20/15
Hardness (CaCO3)	350	mg/l		0.05	EPA 200.7 calc	CG	05/21/15
Sulfate	406.	mg/l		0.1	EPA 300.0	MR	05/20/15
Calcium	94.	mg/l		0.05	EPA 200.7	CG	05/21/15
Potassium	7.2	mg/l		0.1	EPA 200.7	CG	05/21/15
Magnesium	29.	mg/l		0.01	EPA 200.7	CG	05/21/15
Sodium	140	mg/l		0.05	EPA 200.7	CG	05/21/15

**Nutrients**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Ammonia Nitrogen	0.060	mg/l		0.005	EPA 350.1	MR	05/27/15
Nitrite	< 0.005	mg/l		0.005	EPA 300.0	MR	05/19/15
Nitrate	0.421	mg/l		0.025	EPA 300.0	MR	05/19/15

**Dissolved Metals**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Dissolved Iron	< 0.009	mg/l		0.009	EPA 200.7	CG	05/21/15
Dissolved Manganese	< 0.0005	mg/l		0.0005	EPA 200.7	CG	05/21/15

**Total Metals**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Aluminum	1.70	mg/l		0.01	EPA 200.7	CG	05/21/15
Iron	1.40	mg/l		0.009	EPA 200.7	CG	05/21/15
Manganese	0.0596	mg/l		0.0009	EPA 200.7	CG	05/21/15
Silica as SiO2	7.8	mg/l		0.01	SM 4500-SiO2	MR	06/03/15

**AMTEST Identification Number**      **15-A007277**  
**Client Identification**                **Engleman Irr**  
**Sampling Date**                            **05/18/15**

**Microbiological**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE / TIME
Heterotrophic Plate Count	56000	CFU/mL		1	SM 9215B	NG	05/19/15 10:30

**Conventionals**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
pH	7.74	unit	*	0.1	SM 4500H B	HL	05/20/15
Color	5.	unit		5	SM 2120 B	HL	05/20/15
Total Dissolved Solids	1100	mg/l		1	SM 2540C	SW	05/22/15
Total Suspended Solids	58.	mg/l		1	SM 2540D	SW	05/22/15
Turbidity	30.	NTU		0.01	EPA 180.1	HL	05/20/15

**Demand**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Total Organic Carbon	13.	mg/l		0.5	SM 5310B	SW	05/20/15

**Minerals**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Alkalinity (as CaCO3)	72.	mg/l		1	SM 2320B	MR	06/01/15
C-Alkalinity (as CaCO3)	< 1	mg/l		1	SM 2320B	SW	05/27/15
Bicarbonate	72.	mg/l		1	SM 2320B	MR	06/01/15
Chloride	215.	mg/l		0.05	EPA 300.0	MR	05/20/15
Hardness (CaCO3)	300	mg/l		0.05	EPA 200.7 calc	CG	05/21/15
Sulfate	7800	mg/l		0.1	EPA 300.0	MR	05/20/15
Calcium	72.	mg/l		0.05	EPA 200.7	CG	05/21/15
Potassium	7.0	mg/l		0.1	EPA 200.7	CG	05/21/15
Magnesium	29.	mg/l		0.01	EPA 200.7	CG	05/21/15
Sodium	170	mg/l		0.05	EPA 200.7	CG	05/21/15

**Nutrients**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Ammonia Nitrogen	0.136	mg/l		0.005	EPA 350.1	MR	05/27/15
Nitrite	< 0.005	mg/l		0.005	EPA 300.0	MR	05/19/15
Nitrate	0.034	mg/l		0.025	EPA 300.0	MR	05/19/15

**Dissolved Metals**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Dissolved Iron	0.012	mg/l		0.009	EPA 200.7	CG	05/21/15
Dissolved Manganese	< 0.0005	mg/l		0.0005	EPA 200.7	CG	05/21/15

**Total Metals**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Aluminum	0.52	mg/l		0.01	EPA 200.7	CG	05/21/15
Iron	0.276	mg/l		0.009	EPA 200.7	CG	05/21/15
Manganese	0.0597	mg/l		0.0009	EPA 200.7	CG	05/21/15
Silica as SiO2	14.	mg/l		0.01	SM 4500-SiO2	MR	06/03/15

**AMTEST Identification Number** 15-A007278  
**Client Identification** Channel @ LE  
**Sampling Date** 05/18/15

**Microbiological**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE / TIME
Heterotrophic Plate Count	44000	CFU/mL		1	SM 9215B	NG	05/19/15 10:30

**Conventionals**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
pH	7.32	unit	*	0.1	SM 4500H B	HL	05/20/15
Color	20.	unit		5	SM 2120 B	HL	05/20/15
Total Dissolved Solids	1800	mg/l		1	SM 2540C	SW	05/22/15
Total Suspended Solids	57.	mg/l		1	SM 2540D	SW	05/22/15
Turbidity	12.	NTU		0.01	EPA 180.1	HL	05/20/15

**Demand**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Total Organic Carbon	11.	mg/l		0.5	SM 5310B	SW	05/20/15

**Minerals**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Alkalinity (as CaCO3)	130	mg/l		1	SM 2320B	MR	06/01/15
C-Alkalinity (as CaCO3)	< 1	mg/l		1	SM 2320B	SW	05/27/15
Bicarbonate	130	mg/l		1	SM 2320B	MR	06/01/15
Chloride	560.	mg/l		0.05	EPA 300.0	MR	05/20/15
Hardness (CaCO3)	520	mg/l		0.05	EPA 200.7 calc	CG	05/21/15
Sulfate	449.	mg/l		0.1	EPA 300.0	MR	05/20/15
Calcium	140	mg/l		0.05	EPA 200.7	CG	05/21/15
Potassium	12.	mg/l		0.1	EPA 200.7	CG	05/21/15
Magnesium	42.	mg/l		0.01	EPA 200.7	CG	05/21/15
Sodium	300	mg/l		0.05	EPA 200.7	CG	05/21/15

**Nutrients**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Ammonia Nitrogen	0.275	mg/l		0.005	EPA 350.1	MR	05/27/15
Nitrite	< 0.005	mg/l		0.005	EPA 300.0	MR	05/19/15
Nitrate	2.81	mg/l		0.025	EPA 300.0	MR	05/19/15

**Dissolved Metals**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Dissolved Iron	0.057	mg/l		0.009	EPA 200.7	CG	05/21/15
Dissolved Manganese	0.0290	mg/l		0.0005	EPA 200.7	CG	05/21/15

**Total Metals**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Aluminum	0.59	mg/l		0.01	EPA 200.7	CG	05/21/15
Iron	0.142	mg/l		0.009	EPA 200.7	CG	05/21/15
Manganese	0.238	mg/l		0.0009	EPA 200.7	CG	05/21/15
Silica as SiO2	13.	mg/l		0.01	SM 4500-SiO2	MR	06/03/15

**AMTEST Identification Number**      15-A007279  
**Client Identification**                Lake Edinburg  
**Sampling Date**                            05/18/15

**Microbiological**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE / TIME
Heterotrophic Plate Count	1800	CFU/mL		1	SM 9215B	NG	05/19/15 10:30

**Conventionals**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
pH	8.22	unit	*	0.1	SM 4500H B	HL	05/20/15
Color	5.	unit		5	SM 2120 B	HL	05/20/15
Total Dissolved Solids	830	mg/l		1	SM 2540C	SW	05/22/15
Total Suspended Solids	6.0	mg/l		1	SM 2540D	SW	05/22/15
Turbidity	7.4	NTU		0.01	EPA 180.1	HL	05/20/15

**Demand**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Total Organic Carbon	4.7	mg/l		0.5	SM 5310B	SW	05/20/15

**Minerals**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Alkalinity (as CaCO3)	92.	mg/l		1	SM 2320B	MR	06/01/15
C-Alkalinity (as CaCO3)	< 1	mg/l		1	SM 2320B	SW	05/27/15
Bicarbonate	92.	mg/l		1	SM 2320B	MR	06/01/15
Chloride	158.	mg/l		0.05	EPA 300.0	MR	05/20/15
Hardness (CaCO3)	280	mg/l		0.05	EPA 200.7 calc	CG	05/21/15
Sulfate	285.	mg/l		0.1	EPA 300.0	MR	05/20/15
Calcium	71.	mg/l		0.05	EPA 200.7	CG	05/21/15
Potassium	6.2	mg/l		0.1	EPA 200.7	CG	05/21/15
Magnesium	25.	mg/l		0.01	EPA 200.7	CG	05/21/15
Sodium	150	mg/l		0.05	EPA 200.7	CG	05/21/15

**Nutrients**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Ammonia Nitrogen	0.018	mg/l		0.005	EPA 350.1	MR	05/27/15
Nitrite	< 0.005	mg/l		0.005	EPA 300.0	MR	05/19/15
Nitrate	< 0.025	mg/l		0.025	EPA 300.0	MR	05/19/15

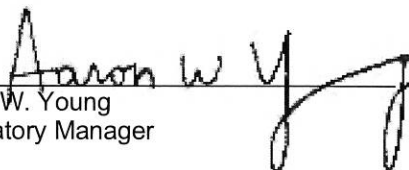
**Dissolved Metals**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Dissolved Iron	< 0.009	mg/l		0.009	EPA 200.7	CG	05/21/15
Dissolved Manganese	< 0.0005	mg/l		0.0005	EPA 200.7	CG	05/21/15

**Total Metals**

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Aluminum	0.31	mg/l		0.01	EPA 200.7	CG	05/21/15
Iron	0.132	mg/l		0.009	EPA 200.7	CG	05/21/15
Manganese	0.0022	mg/l		0.0009	EPA 200.7	CG	05/21/15
Silica as SiO2	11.	mg/l		0.01	SM 4500-SiO2	MR	06/03/15

\* = The method specifies the test is to be performed in the field; therefore the result is an estimate.

  
Aaron W. Young  
Laboratory Manager

QC Summary for sample numbers: 15-A007270 to 15-A007279

DUPLICATES

SAMPLE #	ANALYTE	UNITS	SAMPLE VALUE	DUP VALUE	RPD
15-A007270	Heterotrophic Plate Count	CFU/mL	95000	120000	23.
15-A007279	pH	unit	8.22	8.21	0.12
15-A007200	Alkalinity (as CaCO3)	mg/l	140	150	6.9
15-A007272	Alkalinity (as CaCO3)	mg/l	280	290	3.5
15-A007361	Alkalinity (as CaCO3)	mg/l	110	110	0.00
15-A007896	Alkalinity (as CaCO3)	mg/l	110	110	0.00
15-A007272	C-Alkalinity (as CaCO3)	mg/l	< 1	< 1	
15-A007560	Bicarbonate	mg/l	110	110	0.00
15-A007208	Chloride	mg/l	65.1	63.6	2.3
15-A007281	Chloride	mg/l	17.7	18.2	2.8
15-A007279	Color	unit	5.	5.	0.00
15-A007182	Ammonia Nitrogen	mg/l	9.85	9.66	1.9
15-A007276	Ammonia Nitrogen	mg/l	0.060	0.059	1.7
15-A007824	Ammonia Nitrogen	mg/l	40.2	37.8	6.2
15-A007279	Nitrate	mg/l	< 0.025	< 0.025	
15-A007288	Nitrate	mg/l	< 0.025	< 0.025	
15-A007493	Nitrate	mg/l	< 0.025	< 0.025	
15-A007562	Nitrate	mg/l	0.120	0.124	3.3
15-A007722	Nitrate	mg/l	< 0.025	< 0.025	
15-A007279	Nitrite	mg/l	< 0.005	< 0.005	
15-A007288	Nitrite	mg/l	< 0.005	< 0.005	
15-A007269	Total Dissolved Solids	mg/l	3100	2900	6.7
15-A007279	Total Dissolved Solids	mg/l	830	870	4.7
15-A007277	Total Suspended Solids	mg/l	58.	58.	0.00
15-A007511	Total Suspended Solids	mg/l	4.0	2.0	67.
15-A007521	Total Suspended Solids	mg/l	< 1	1.0	
15-A007582	Total Suspended Solids	mg/l	7.0	6.0	15.
15-A007601	Total Suspended Solids	mg/l	5.0	5.0	0.00
15-A007208	Sulfate	mg/l	112.	105.	6.5
15-A007281	Sulfate	mg/l	30.3	30.0	1.0
15-A007279	Turbidity	NTU	7.4	7.0	5.6

**MATRIX SPIKES**

SAMPLE #	ANALYTE	UNITS	SAMPLE VALUE	SMPL+ SPK	SPK AMT	RECOVERY
15-A006792	Total Organic Carbon	mg/l	3.7	51.	50.	94.60 %
15-A006886	Total Organic Carbon	mg/l	17.	65.	50.	96.00 %
15-A007200	Total Organic Carbon	mg/l	5.8	55.	50.	98.40 %
15-A007274	Total Organic Carbon	mg/l	11.	55.	50.	88.00 %
15-A007208	Chloride	mg/l	65.1	176.	120.	92.42 %
15-A007281	Chloride	mg/l	17.7	35.8	20.0	90.50 %
15-A007182	Ammonia Nitrogen	mg/l	9.85	15.1	5.00	105.00 %
15-A007276	Ammonia Nitrogen	mg/l	0.060	0.557	0.500	99.40 %
15-A007824	Ammonia Nitrogen	mg/l	40.2	92.5	50.0	104.60 %
15-A007279	Nitrate	mg/l	< 0.025	1.79	2.00	89.50 %
15-A007288	Nitrate	mg/l	< 0.025	1.89	2.00	94.50 %
15-A007493	Nitrate	mg/l	< 0.025	1.79	2.00	89.50 %
15-A007562	Nitrate	mg/l	0.120	2.11	2.00	99.50 %
15-A007722	Nitrate	mg/l	< 0.025	1.96	2.00	98.00 %
15-A007279	Nitrite	mg/l	< 0.005	0.733	2.00	36.65 %
15-A007288	Nitrite	mg/l	< 0.005	1.77	2.00	88.50 %
15-A007208	Sulfate	mg/l	112.	258.	120.	121.67 %
15-A007281	Sulfate	mg/l	30.3	50.5	20.0	101.00 %
15-A007270	Aluminum	mg/l	1.50	12.6	11.0	100.91 %
15-A007270	Aluminum	mg/l	1.50	12.7	11.0	101.82 %
15-A007270	Calcium	mg/l	200	450	250	100.00 %
15-A007270	Calcium	mg/l	200	460	250	104.00 %
15-A007313	Calcium	mg/l	4.2	30.	26.	99.23 %
15-A007313	Calcium	mg/l	4.2	31.	26.	103.08 %
15-A007526	Calcium	mg/l	50.	83.	32.	103.12 %
15-A007526	Calcium	mg/l	50.	83.	32.	103.12 %
15-A007270	Iron	mg/l	0.517	10.6	11.0	91.66 %
15-A007270	Iron	mg/l	0.517	10.9	11.0	94.39 %
15-A007526	Iron	mg/l	0.495	14.3	13.8	100.04 %
15-A007526	Iron	mg/l	0.495	14.4	13.8	100.76 %
15-A007271	Dissolved Iron	mg/l	< 0.009	12.8	13.8	92.75 %
15-A007271	Dissolved Iron	mg/l	< 0.009	12.7	13.8	92.03 %
15-A007385	Dissolved Iron	mg/l	0.163	13.8	13.8	98.82 %
15-A007385	Dissolved Iron	mg/l	0.163	13.9	13.8	99.54 %
15-A007270	Potassium	mg/l	14.	25.	10.	110.00 %
15-A007270	Potassium	mg/l	14.	25.	10.	110.00 %
15-A007313	Potassium	mg/l	0.45	9.9	10.	94.50 %
15-A007313	Potassium	mg/l	0.45	9.9	10.	94.50 %
15-A007270	Magnesium	mg/l	69.	310	250	96.40 %
15-A007270	Magnesium	mg/l	69.	310	250	96.40 %
15-A007313	Magnesium	mg/l	0.42	25.	26.	94.54 %
15-A007313	Magnesium	mg/l	0.42	25.	26.	94.54 %
15-A007526	Magnesium	mg/l	19.	50.	32.	96.88 %
15-A007526	Magnesium	mg/l	19.	50.	32.	96.88 %
15-A007270	Manganese	mg/l	0.0921	0.959	1.00	86.69 %
15-A007270	Manganese	mg/l	0.0921	0.981	1.00	88.89 %
15-A007526	Manganese	mg/l	0.140	1.32	1.25	94.40 %
15-A007526	Manganese	mg/l	0.140	1.32	1.25	94.40 %
15-A007271	Dissolved Manganese	mg/l	< 0.0005	1.077	1.250	86.16 %

**MATRIX SPIKES continued....**

SAMPLE #	ANALYTE	UNITS	SAMPLE VALUE	SMPL+ SPK	SPK AMT	RECOVERY
15-A007271	Dissolved Manganese	mg/l	< 0.0005	1.070	1.250	85.60 %
15-A007385	Dissolved Manganese	mg/l	0.0626	1.243	1.250	94.43 %
15-A007385	Dissolved Manganese	mg/l	0.0626	1.255	1.250	95.39 %
15-A007270	Sodium	mg/l	600	820	250	88.00 %
15-A007270	Sodium	mg/l	600	820	250	88.00 %
15-A007313	Sodium	mg/l	3.4	31.	26.	106.15 %
15-A007313	Sodium	mg/l	3.4	31.	26.	106.15 %
15-A007276	Silica as SiO2	mg/l	7.8	11.	4.7	68.09 %
15-A007276	Silica as SiO2	mg/l	7.8	11.	4.7	68.09 %

**MATRIX SPIKE DUPLICATES**

SAMPLE #	ANALYTE	UNITS	SAMPLE + SPK	MSD VALUE	RPD
Spike	Aluminum	mg/l	12.6	12.7	0.79
Spike	Calcium	mg/l	450	460	2.2
Spike	Calcium	mg/l	30.	31.	3.3
Spike	Calcium	mg/l	83.	83.	0.00
Spike	Iron	mg/l	10.6	10.9	2.8
Spike	Iron	mg/l	14.3	14.4	0.70
Spike	Dissolved Iron	mg/l	12.8	12.7	0.78
Spike	Dissolved Iron	mg/l	13.8	13.9	0.72
Spike	Potassium	mg/l	25.	25.	0.00
Spike	Potassium	mg/l	9.9	9.9	0.00
Spike	Magnesium	mg/l	310	310	0.00
Spike	Magnesium	mg/l	25.	25.	0.00
Spike	Magnesium	mg/l	50.	50.	0.00
Spike	Manganese	mg/l	0.959	0.981	2.3
Spike	Manganese	mg/l	1.32	1.32	0.00
Spike	Dissolved Manganese	mg/l	1.077	1.070	0.65
Spike	Dissolved Manganese	mg/l	1.243	1.255	0.96
Spike	Sodium	mg/l	820	820	0.00
Spike	Sodium	mg/l	31.	31.	0.00
Spike	Silica as SiO2	mg/l	11.	11.	0.00

**STANDARD REFERENCE MATERIALS**

ANALYTE	UNITS	TRUE VALUE	MEASURED VALUE	RECOVERY
pH	unit	6.86	6.81	99.3 %
Alkalinity (as CaCO3)	mg/l	240	260	108. %
Alkalinity (as CaCO3)	mg/l	240	240	100. %
Alkalinity (as CaCO3)	mg/l	240	250	104. %
Alkalinity (as CaCO3)	mg/l	240	260	108. %
Alkalinity (as CaCO3)	mg/l	240	260	108. %
C-Alkalinity (as CaCO3)	mg/l	240	240	100. %
Total Organic Carbon	mg/l	50.	48.	96.0 %
Total Organic Carbon	mg/l	50.	48.	96.0 %
Total Organic Carbon	mg/l	50.	46.	92.0 %
Chloride	mg/l	2.00	2.00	100. %
Chloride	mg/l	2.00	2.02	101. %
Chloride	mg/l	2.00	2.12	106. %
Ammonia Nitrogen	mg/l	0.500	0.526	105. %
Ammonia Nitrogen	mg/l	0.500	0.539	108. %

**STANDARD REFERENCE MATERIALS continued...**

ANALYTE	UNITS	TRUE VALUE	MEASURED VALUE	RECOVERY
Nitrate	mg/l	2.00	1.89	94.5 %
Nitrate	mg/l	2.00	1.87	93.5 %
Nitrate	mg/l	2.00	2.06	103. %
Nitrate	mg/l	2.00	1.95	97.5 %
Nitrite	mg/l	2.00	1.85	92.5 %
Total Dissolved Solids	mg/l	350	360	103. %
Total Dissolved Solids	mg/l	350	370	106. %
Total Suspended Solids	mg/l	100	100	100. %
Total Suspended Solids	mg/l	100	100	100. %
Total Suspended Solids	mg/l	100	110	110. %
Sulfate	mg/l	2.00	2.05	102. %
Sulfate	mg/l	2.00	2.06	103. %
Sulfate	mg/l	2.00	2.11	106. %
Turbidity	NTU	1.7	1.7	100. %
Aluminum	mg/l	4.00	4.02	100. %
Calcium	mg/l	4.0	4.0	100. %
Calcium	mg/l	4.0	4.1	102. %
Iron	mg/l	4.00	3.77	94.2 %
Iron	mg/l	4.00	3.82	95.5 %
Dissolved Iron	mg/l	4.00	3.77	94.2 %
Dissolved Iron	mg/l	4.00	3.80	95.0 %
Potassium	mg/l	4.0	4.2	105. %
Magnesium	mg/l	4.0	3.9	97.5 %
Magnesium	mg/l	4.0	3.9	97.5 %
Manganese	mg/l	0.800	0.830	104. %
Manganese	mg/l	0.800	0.842	105. %
Dissolved Manganese	mg/l	0.8000	0.8246	103. %
Dissolved Manganese	mg/l	0.8000	0.8270	103. %
Sodium	mg/l	4.0	4.4	110. %
Silica as SiO2	mg/l	4.7	4.8	102. %

**BLANKS**

ANALYTE	UNITS	RESULT
Heterotrophic Plate Count	CFU/mL	< 1
Alkalinity (as CaCO3)	mg/l	< 1
Alkalinity (as CaCO3)	mg/l	< 1
Alkalinity (as CaCO3)	mg/l	< 1
Alkalinity (as CaCO3)	mg/l	< 1
Alkalinity (as CaCO3)	mg/l	< 1
C-Alkalinity (as CaCO3)	mg/l	< 1
Bicarbonate	mg/l	< 1
Total Organic Carbon	mg/l	< 0.5
Total Organic Carbon	mg/l	< 0.5
Total Organic Carbon	mg/l	< 0.5

**BLANKS continued....**

ANALYTE	UNITS	RESULT
Chloride	mg/l	< 0.05
Chloride	mg/l	< 0.05
Chloride	mg/l	< 0.05
Ammonia Nitrogen	mg/l	< 0.005
Ammonia Nitrogen	mg/l	< 0.005
Nitrate	mg/l	< 0.025
Nitrate	mg/l	< 0.025
Nitrate	mg/l	< 0.025
Nitrate	mg/l	< 0.025
Nitrite	mg/l	< 0.005
Total Dissolved Solids	mg/l	< 1
Total Dissolved Solids	mg/l	< 1
Total Suspended Solids	mg/l	< 1
Total Suspended Solids	mg/l	< 1
Sulfate	mg/l	< 0.1
Sulfate	mg/l	< 0.1
Sulfate	mg/l	< 0.1
Turbidity	NTU	< 0.05
Aluminum	mg/l	< 0.01
Calcium	mg/l	0.12
Calcium	mg/l	< 0.05
Iron	mg/l	< 0.009
Iron	mg/l	< 0.009
Dissolved Iron	mg/l	< 0.009
Dissolved Iron	mg/l	< 0.009
Potassium	mg/l	< 0.1
Magnesium	mg/l	< 0.01
Magnesium	mg/l	< 0.01
Manganese	mg/l	< 0.0009
Manganese	mg/l	< 0.0009
Dissolved Manganese	mg/l	< 0.0005
Dissolved Manganese	mg/l	< 0.0005
Sodium	mg/l	0.15
Sodium	mg/l	< 0.05
Silica as SiO2	mg/l	< 0.01



## AmTest Chain of Custody Record

13600 NE 126<sup>th</sup> PL, Suite C, Kirkland, WA 98034  
 Ph (425) 885-1664 Fx (425) 820-0245  
 www.amtestlab.com

Chain of Custody No. 24367

<b>Client Name &amp; Address:</b> Tedsy Infrastructure Group 1201 E Expressway 83 Mission, TX 78572	<b>Invoice To:</b> <div style="text-align: center; font-size: 2em;">  </div>
<b>Contact Person:</b> Samantha DeLeon	<b>Invoice Contact:</b> Accounts Payable
<b>Phone No:</b> (956) 424-7898	<b>PO Number:</b>
<b>Fax No:</b>	<b>Invoice Ph/Fax:</b> (956) 424-7898
<b>E-mail:</b> sdeleon@Tedsy.com	<b>Invoice E-mail:</b>
<b>Report Delivery: (Choose all that apply)</b> Mail / Fax / <u>Email</u> / Posted Online	<b>Data posted to online account:</b> YES / NO <b>Web Login ID:</b>

**Special Instructions:**

<b>Requested TAT: (Rush must be pre-approved by lab)</b> Standard    RUSH ( 5 Day / 3 Day / 48 HR / 24 HR )	<b>Temperature upon Receipt:</b> 24.5°C
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Project Name:		Date Sampled	Time Sampled	Matrix	No. of containers	Analysis Requested										QA/QC
Project Number:																
AmTest ID	Client ID (35 characters max)															
7270	Site 1															
71	Site 2															
72	Site 3															
73	Site 4															
74	Site 5															

Collected/Relinquished By:	Date	Time	Received By:	Date	Time
				5/19/15	947
Relinquished By:	Date	Time	Received By:	Date	Time
Relinquished By:	Date	Time	Received By:	Date	Time

**COMMENTS:**

FedEX



# Anatek Labs, Inc.

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## Synthetic Organic Chemicals (SOC's) Analysis Report EPA Test Method - EPA 505

System ID#:	System Name: TEDSI INFRASTRUCTURE	
Lab/Sample Number: 125 60298	Collect Date: 5/18/2015	DOH Source #:
Multiple Source Nos:	Sample Type:	Sample Purpose:
Date Received: 5/21/2015	Date Reported: 6/5/2015	Supervisor: JWC
Date Analyzed: 6/1/2015		
County:	Sample Location: 7271	
Report To:	Address: 1201 E. EXPRESSWAY 83	
	City, State, ZIP MISSION, TX 78572	
	Phone Number:	

### EPA Regulated

DOH #	Analytes	Result	Units	SRL	Trigger	MCL	Method	Analyst	Qualifier
0033	Endrin	ND	ug/L	0.01	0.01	2	EPA 505	MAH	
0034	Lindane (BHC gamma)	ND	ug/L	0.02	0.02	0.2	EPA 505	MAH	
0035	Methoxychlor	ND	ug/L	0.1	0.1	40	EPA 505	MAH	
0036	Toxaphene	ND	ug/L	1	1	3	EPA 505	MAH	
0122	Chlordane (Total)	ND	ug/L	0.2	0.2	2	EPA 505	MAH	

### EPA Unregulated

DOH #	Analytes	Result	Units	SRL	Trigger	MCL	Method	Analyst	Qualifier
0118	Aldrin	ND	ug/L	0.2	0.2		EPA 505	MAH	
0123	Dieldrin	ND	ug/L	0.1	0.1		EPA 505	MAH	
0173	Aroclor 1221	ND	ug/L	20	20		EPA 505	MAH	
0174	Aroclor 1232	ND	ug/L	0.5	0.5		EPA 505	MAH	
0175	Aroclor 1242	ND	ug/L	0.3	0.3		EPA 505	MAH	
0176	Aroclor 1248	ND	ug/L	0.1	0.1		EPA 505	MAH	
0177	Aroclor 1254	ND	ug/L	0.1	0.1		EPA 505	MAH	
0178	Aroclor 1260	ND	ug/L	0.2	0.2		EPA 505	MAH	
0180	Aroclor 1016	ND	ug/L	0.08	0.08		EPA 505	MAH	

### State Unregulated

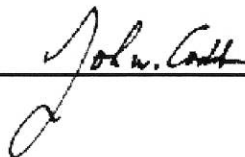
DOH #	Analytes	Result	Units	SRL	Trigger	MCL	Method	Analyst	Qualifier
0233	4,4'-DDE	ND	ug/L	0.1	0.1		EPA 505	MAH	
0232	4,4'-DDD	ND	ug/L	0.1	0.1		EPA 505	MAH	
0234	4,4'-DDT	ND	ug/L	0.1	0.1		EPA 505	MAH	

**Notes:** ND = Not Detected within the sensitivity of the instrument  
Numerical Entry = Detection at level indicated  
SRL - Minimum reporting level for Washington DOH

MCL - EPA maximum contaminant level  
Trigger - Washington DOH response level. If results exceed this level, contact the DOH

This report shall not be reproduced except in full, without the written approval of the laboratory.  
The results reported relate only to the samples indicated.  
Soil/solid results are reported on a dry-weight basis unless otherwise noted.

Lab Supervisor: \_\_\_\_\_



Date: 6/5/2015

# Anatek Labs, Inc.

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## Synthetic Organic Chemicals (SOC's) Analysis Report EPA Test Method - EPA 505

System ID#:	System Name: TEDSI INFRASTRUCTURE	
Lab/Sample Number: 125 60299	Collect Date: 5/18/2015	DOH Source #:
Multiple Source Nos:	Sample Type:	Sample Purpose:
Date Received: 5/21/2015	Date Reported: 6/5/2015	Supervisor: JWC
Date Analyzed: 5/29/2015		
County:	Sample Location: 7272	
Report To:	Address: 1201 E. EXPRESSWAY 83	
	City, State, ZIP MISSION, TX 78572	
	Phone Number:	

### EPA Regulated

DOH #	Analytes	Result	Units	SRL	Trigger	MCL	Method	Analyst	Qualifier
0033	Endrin	ND	ug/L	0.01	0.01	2	EPA 505	MAH	
0034	Lindane (BHC gamma)	ND	ug/L	0.02	0.02	0.2	EPA 505	MAH	
0035	Methoxychlor	ND	ug/L	0.1	0.1	40	EPA 505	MAH	
0036	Toxaphene	ND	ug/L	1	1	3	EPA 505	MAH	
0122	Chlordane (Total)	ND	ug/L	0.2	0.2	2	EPA 505	MAH	

### EPA Unregulated

DOH #	Analytes	Result	Units	SRL	Trigger	MCL	Method	Analyst	Qualifier
0118	Aldrin	ND	ug/L	0.2	0.2		EPA 505	MAH	
0123	Dieldrin	ND	ug/L	0.1	0.1		EPA 505	MAH	
0173	Aroclor 1221	ND	ug/L	20	20		EPA 505	MAH	
0174	Aroclor 1232	ND	ug/L	0.5	0.5		EPA 505	MAH	
0175	Aroclor 1242	ND	ug/L	0.3	0.3		EPA 505	MAH	
0176	Aroclor 1248	ND	ug/L	0.1	0.1		EPA 505	MAH	
0177	Aroclor 1254	ND	ug/L	0.1	0.1		EPA 505	MAH	
0178	Aroclor 1260	ND	ug/L	0.2	0.2		EPA 505	MAH	
0180	Aroclor 1016	ND	ug/L	0.08	0.08		EPA 505	MAH	

### State Unregulated

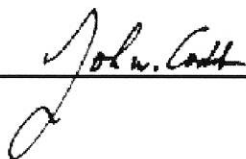
DOH #	Analytes	Result	Units	SRL	Trigger	MCL	Method	Analyst	Qualifier
0233	4,4'-DDE	ND	ug/L	0.1	0.1		EPA 505	MAH	
0234	4,4'-DDT	ND	ug/L	0.1	0.1		EPA 505	MAH	
0232	4,4'-DDD	ND	ug/L	0.1	0.1		EPA 505	MAH	

**Notes:** ND = Not Detected within the sensitivity of the instrument  
Numerical Entry = Detection at level indicated  
SRL - Minimum reporting level for Washington DOH

MCL - EPA maximum contaminant level  
Trigger - Washington DOH response level. If results exceed this level, contact the DOH

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Soil/solid results are reported on a dry-weight basis unless otherwise noted.

Lab Supervisor: \_\_\_\_\_



Date: 6/5/2015

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## Synthetic Organic Chemicals (SOC's) Analysis Report EPA Test Method - EPA 505

System ID#:	System Name: TEDSI INFRASTRUCTURE	
Lab/Sample Number: 125 60300	Collect Date: 5/18/2015	DOH Source #:
Multiple Source Nos:	Sample Type:	Sample Purpose:
Date Received: 5/21/2015	Date Reported: 6/5/2015	Supervisor: JWC
Date Analyzed: 6/1/2015		
County:	Sample Location: 7273	
Report To:	Address: 1201 E. EXPRESSWAY 83	
	City, State, ZIP: MISSION, TX 78572	
	Phone Number:	

### EPA Regulated

DOH #	Analytes	Result	Units	SRL	Trigger	MCL	Method	Analyst	Qualifier
0033	Endrin	ND	ug/L	0.01	0.01	2	EPA 505	MAH	
0034	Lindane (BHC gamma)	ND	ug/L	0.02	0.02	0.2	EPA 505	MAH	
0035	Methoxychlor	ND	ug/L	0.1	0.1	40	EPA 505	MAH	
0036	Toxaphene	ND	ug/L	1	1	3	EPA 505	MAH	
0122	Chlordane (Total)	ND	ug/L	0.2	0.2	2	EPA 505	MAH	

### EPA Unregulated

DOH #	Analytes	Result	Units	SRL	Trigger	MCL	Method	Analyst	Qualifier
0118	Aldrin	ND	ug/L	0.2	0.2		EPA 505	MAH	
0123	Dieldrin	ND	ug/L	0.1	0.1		EPA 505	MAH	
0173	Aroclor 1221	ND	ug/L	20	20		EPA 505	MAH	
0174	Aroclor 1232	ND	ug/L	0.5	0.5		EPA 505	MAH	
0175	Aroclor 1242	ND	ug/L	0.3	0.3		EPA 505	MAH	
0176	Aroclor 1248	ND	ug/L	0.1	0.1		EPA 505	MAH	
0177	Aroclor 1254	ND	ug/L	0.1	0.1		EPA 505	MAH	
0178	Aroclor 1260	ND	ug/L	0.2	0.2		EPA 505	MAH	
0180	Aroclor 1016	ND	ug/L	0.08	0.08		EPA 505	MAH	

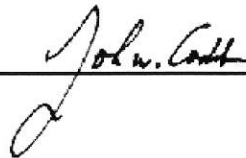
### State Unregulated

DOH #	Analytes	Result	Units	SRL	Trigger	MCL	Method	Analyst	Qualifier
0233	4,4'-DDE	ND	ug/L	0.1	0.1		EPA 505	MAH	
0234	4,4'-DDT	ND	ug/L	0.1	0.1		EPA 505	MAH	
0232	4,4'-DDD	ND	ug/L	0.1	0.1		EPA 505	MAH	

**Notes:** ND = Not Detected within the sensitivity of the instrument  
Numerical Entry = Detection at level indicated  
SRL - Minimum reporting level for Washington DOH  
MCL - EPA maximum contaminant level  
Trigger - Washington DOH response level. If results exceed this level, contact the DOH

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Lab Supervisor: \_\_\_\_\_



Date: 6/5/2015

# Anatek Labs, Inc.

1282 Alturas Drive • Moscow, ID 83843 • (208) 883-2839 • Fax (208) 882-9246 • email moscow@anateklabs.com  
504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

## Synthetic Organic Chemicals (SOC's) Analysis Report EPA Test Method - EPA 505

System ID#:	System Name: TEDSI INFRASTRUCTURE		
Lab/Sample Number: 125 60301	Collect Date: 5/18/2015	DOH Source #:	
Multiple Source Nos:	Sample Type:	Sample Purpose:	
Date Received: 5/21/2015	Date Reported: 6/5/2015	Supervisor: JWC	
Date Analyzed: 6/1/2015			
County:	Sample Location: 7274		
Report To:	Address: 1201 E. EXPRESSWAY 83		
	City, State, ZIP: MISSION, TX 78572		
	Phone Number:		

### EPA Regulated

DOH #	Analytes	Result	Units	SRL	Trigger	MCL	Method	Analyst	Qualifier
0033	Endrin	ND	ug/L	0.01	0.01	2	EPA 505	MAH	
0034	Lindane (BHC gamma)	ND	ug/L	0.02	0.02	0.2	EPA 505	MAH	
0035	Methoxychlor	ND	ug/L	0.1	0.1	40	EPA 505	MAH	
0036	Toxaphene	ND	ug/L	1	1	3	EPA 505	MAH	
0122	Chlordane (Total)	ND	ug/L	0.2	0.2	2	EPA 505	MAH	

### EPA Unregulated

DOH #	Analytes	Result	Units	SRL	Trigger	MCL	Method	Analyst	Qualifier
0118	Aldrin	ND	ug/L	0.2	0.2		EPA 505	MAH	
0123	Dieldrin	ND	ug/L	0.1	0.1		EPA 505	MAH	
0173	Aroclor 1221	ND	ug/L	20	20		EPA 505	MAH	
0174	Aroclor 1232	ND	ug/L	0.5	0.5		EPA 505	MAH	
0175	Aroclor 1242	ND	ug/L	0.3	0.3		EPA 505	MAH	
0176	Aroclor 1248	ND	ug/L	0.1	0.1		EPA 505	MAH	
0177	Aroclor 1254	ND	ug/L	0.1	0.1		EPA 505	MAH	
0178	Aroclor 1260	ND	ug/L	0.2	0.2		EPA 505	MAH	
0180	Aroclor 1016	ND	ug/L	0.08	0.08		EPA 505	MAH	

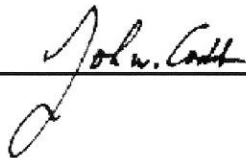
### State Unregulated

DOH #	Analytes	Result	Units	SRL	Trigger	MCL	Method	Analyst	Qualifier
0233	4,4'-DDE	ND	ug/L	0.1	0.1		EPA 505	MAH	
0234	4,4'-DDT	ND	ug/L	0.1	0.1		EPA 505	MAH	
0232	4,4'-DDD	ND	ug/L	0.1	0.1		EPA 505	MAH	

**Notes:** ND = Not Detected within the sensitivity of the instrument  
Numerical Entry = Detection at level indicated  
SRL - Minimum reporting level for Washington DOH  
MCL - EPA maximum contaminant level  
Trigger - Washington DOH response level. If results exceed this level, contact the DOH

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Soil/solid results are reported on a dry-weight basis unless otherwise noted.

Lab Supervisor: \_\_\_\_\_



Date: 6/5/2015

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504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

## Synthetic Organic Chemicals (SOC's) Analysis Report EPA Test Method - EPA 505

System ID#:	System Name: TEDSI INFRASTRUCTURE		
Lab/Sample Number: 125 60302	Collect Date: 5/18/2015	DOH Source #:	
Multiple Source Nos:	Sample Type:	Sample Purpose:	
Date Received: 5/21/2015	Date Reported: 6/5/2015	Supervisor: JWC	
Date Analyzed: 6/1/2015			
County:	Sample Location: 7275		
Report To:	Address: 1201 E. EXPRESSWAY 83		
	City, State, ZIP: MISSION, TX 78572		
	Phone Number:		

### EPA Regulated

DOH #	Analytes	Result	Units	SRL	Trigger	MCL	Method	Analyst	Qualifier
0033	Endrin	ND	ug/L	0.01	0.01	2	EPA 505	MAH	
0034	Lindane (BHC gamma)	ND	ug/L	0.02	0.02	0.2	EPA 505	MAH	
0035	Methoxychlor	ND	ug/L	0.1	0.1	40	EPA 505	MAH	
0036	Toxaphene	ND	ug/L	1	1	3	EPA 505	MAH	
0122	Chlordane (Total)	ND	ug/L	0.2	0.2	2	EPA 505	MAH	

### EPA Unregulated

DOH #	Analytes	Result	Units	SRL	Trigger	MCL	Method	Analyst	Qualifier
0118	Aldrin	ND	ug/L	0.2	0.2		EPA 505	MAH	
0123	Dieldrin	ND	ug/L	0.1	0.1		EPA 505	MAH	
0173	Aroclor 1221	ND	ug/L	20	20		EPA 505	MAH	
0174	Aroclor 1232	ND	ug/L	0.5	0.5		EPA 505	MAH	
0175	Aroclor 1242	ND	ug/L	0.3	0.3		EPA 505	MAH	
0176	Aroclor 1248	ND	ug/L	0.1	0.1		EPA 505	MAH	
0177	Aroclor 1254	ND	ug/L	0.1	0.1		EPA 505	MAH	
0178	Aroclor 1260	ND	ug/L	0.2	0.2		EPA 505	MAH	
0180	Aroclor 1016	ND	ug/L	0.08	0.08		EPA 505	MAH	

### State Unregulated

DOH #	Analytes	Result	Units	SRL	Trigger	MCL	Method	Analyst	Qualifier
0233	4,4'-DDE	ND	ug/L	0.1	0.1		EPA 505	MAH	
0234	4,4'-DDT	ND	ug/L	0.1	0.1		EPA 505	MAH	
0232	4,4'-DDD	ND	ug/L	0.1	0.1		EPA 505	MAH	

**Notes:** ND = Not Detected within the sensitivity of the instrument  
Numerical Entry = Detection at level indicated  
SRL - Minimum reporting level for Washington DOH  
MCL - EPA maximum contaminant level  
Trigger - Washington DOH response level. If results exceed this level, contact the DOH

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Soil/solid results are reported on a dry-weight basis unless otherwise noted.

Lab Supervisor: \_\_\_\_\_



Date: 6/5/2015

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504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

## Synthetic Organic Chemicals (SOC's) Analysis Report EPA Test Method - EPA 505

System ID#:	System Name: TEDSI INFRASTRUCTURE		
Lab/Sample Number: 125 60303	Collect Date: 5/18/2015	DOH Source #:	
Multiple Source Nos:	Sample Type:	Sample Purpose:	
Date Received: 5/21/2015	Date Reported: 6/5/2015	Supervisor: JWC	
Date Analyzed: 6/1/2015			
County:	Sample Location: 7276		
Report To:	Address: 1201 E. EXPRESSWAY 83		
	City, State, ZIP: MISSION, TX 78572		
	Phone Number:		

### EPA Regulated

DOH #	Analytes	Result	Units	SRL	Trigger	MCL	Method	Analyst	Qualifier
0033	Endrin	ND	ug/L	0.01	0.01	2	EPA 505	MAH	
0034	Lindane (BHC gamma)	ND	ug/L	0.02	0.02	0.2	EPA 505	MAH	
0035	Methoxychlor	ND	ug/L	0.1	0.1	40	EPA 505	MAH	
0036	Toxaphene	ND	ug/L	1	1	3	EPA 505	MAH	
0122	Chlordane (Total)	ND	ug/L	0.2	0.2	2	EPA 505	MAH	

### EPA Unregulated

DOH #	Analytes	Result	Units	SRL	Trigger	MCL	Method	Analyst	Qualifier
0118	Aldrin	ND	ug/L	0.2	0.2		EPA 505	MAH	
0123	Dieldrin	ND	ug/L	0.1	0.1		EPA 505	MAH	
0173	Aroclor 1221	ND	ug/L	20	20		EPA 505	MAH	
0174	Aroclor 1232	ND	ug/L	0.5	0.5		EPA 505	MAH	
0175	Aroclor 1242	ND	ug/L	0.3	0.3		EPA 505	MAH	
0176	Aroclor 1248	ND	ug/L	0.1	0.1		EPA 505	MAH	
0177	Aroclor 1254	ND	ug/L	0.1	0.1		EPA 505	MAH	
0178	Aroclor 1260	ND	ug/L	0.2	0.2		EPA 505	MAH	
0180	Aroclor 1016	ND	ug/L	0.08	0.08		EPA 505	MAH	

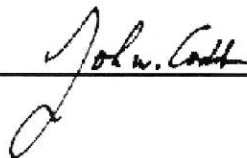
### State Unregulated

DOH #	Analytes	Result	Units	SRL	Trigger	MCL	Method	Analyst	Qualifier
0233	4,4'-DDE	ND	ug/L	0.1	0.1		EPA 505	MAH	
0234	4,4'-DDT	ND	ug/L	0.1	0.1		EPA 505	MAH	
0232	4,4'-DDD	ND	ug/L	0.1	0.1		EPA 505	MAH	

**Notes:** ND = Not Detected within the sensitivity of the instrument  
Numerical Entry = Detection at level indicated  
SRL - Minimum reporting level for Washington DOH  
MCL - EPA maximum contaminant level  
Trigger - Washington DOH response level. If results exceed this level, contact the DOH

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Lab Supervisor: \_\_\_\_\_



Date: 6/5/2015

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504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

## Synthetic Organic Chemicals (SOC's) Analysis Report EPA Test Method - EPA 505

System ID#:	System Name: TEDSI INFRASTRUCTURE		
Lab/Sample Number: 125 60304	Collect Date: 5/18/2015	DOH Source #:	
Multiple Source Nos:	Sample Type:	Sample Purpose:	
Date Received: 5/21/2015	Date Reported: 6/5/2015	Supervisor: JWC	
Date Analyzed: 5/29/2015	County: Sample Location: 7277		
Report To:	Address: 1201 E. EXPRESSWAY 83		
	City, State, ZIP MISSION, TX 78572		
	Phone Number:		

### EPA Regulated

DOH #	Analytes	Result	Units	SRL	Trigger	MCL	Method	Analyst	Qualifier
0033	Endrin	ND	ug/L	0.01	0.01	2	EPA 505	MAH	
0034	Lindane (BHC gamma)	ND	ug/L	0.02	0.02	0.2	EPA 505	MAH	
0035	Methoxychlor	ND	ug/L	0.1	0.1	40	EPA 505	MAH	
0036	Toxaphene	ND	ug/L	1	1	3	EPA 505	MAH	
0122	Chlordane (Total)	ND	ug/L	0.2	0.2	2	EPA 505	MAH	

### EPA Unregulated

DOH #	Analytes	Result	Units	SRL	Trigger	MCL	Method	Analyst	Qualifier
0118	Aldrin	ND	ug/L	0.2	0.2		EPA 505	MAH	
0123	Dieldrin	ND	ug/L	0.1	0.1		EPA 505	MAH	
0173	Aroclor 1221	ND	ug/L	20	20		EPA 505	MAH	
0174	Aroclor 1232	ND	ug/L	0.5	0.5		EPA 505	MAH	
0175	Aroclor 1242	ND	ug/L	0.3	0.3		EPA 505	MAH	
0176	Aroclor 1248	ND	ug/L	0.1	0.1		EPA 505	MAH	
0177	Aroclor 1254	ND	ug/L	0.1	0.1		EPA 505	MAH	
0178	Aroclor 1260	ND	ug/L	0.2	0.2		EPA 505	MAH	
0180	Aroclor 1016	ND	ug/L	0.08	0.08		EPA 505	MAH	

### State Unregulated

DOH #	Analytes	Result	Units	SRL	Trigger	MCL	Method	Analyst	Qualifier
0233	4,4'-DDE	ND	ug/L	0.1	0.1		EPA 505	MAH	
0234	4,4'-DDT	ND	ug/L	0.1	0.1		EPA 505	MAH	
0232	4,4'-DDD	ND	ug/L	0.1	0.1		EPA 505	MAH	

**Notes:** ND = Not Detected within the sensitivity of the instrument  
Numerical Entry = Detection at level indicated  
SRL - Minimum reporting level for Washington DOH  
MCL - EPA maximum contaminant level  
Trigger - Washington DOH response level. If results exceed this level, contact the DOH

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Lab Supervisor: \_\_\_\_\_



Date: 6/5/2015

# Anatek Labs, Inc.

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504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

## Synthetic Organic Chemicals (SOC's) Analysis Report EPA Test Method - EPA 505

System ID#:	System Name: TEDSI INFRASTRUCTURE		
Lab/Sample Number: 125 60305	Collect Date: 5/18/2015	DOH Source #:	
Multiple Source Nos:	Sample Type:	Sample Purpose:	
Date Received: 5/21/2015	Date Reported: 6/5/2015	Supervisor: JWC	
Date Analyzed: 6/1/2015			
County:	Sample Location: 7278		
Report To:	Address: 1201 E. EXPRESSWAY 83		
	City, State, ZIP: MISSION, TX 78572		
	Phone Number:		

### EPA Regulated

DOH #	Analytes	Result	Units	SRL	Trigger	MCL	Method	Analyst	Qualifier
0033	Endrin	ND	ug/L	0.01	0.01	2	EPA 505	MAH	
0034	Lindane (BHC gamma)	ND	ug/L	0.02	0.02	0.2	EPA 505	MAH	
0035	Methoxychlor	ND	ug/L	0.1	0.1	40	EPA 505	MAH	
0036	Toxaphene	ND	ug/L	1	1	3	EPA 505	MAH	
0122	Chlordane (Total)	ND	ug/L	0.2	0.2	2	EPA 505	MAH	

### EPA Unregulated

DOH #	Analytes	Result	Units	SRL	Trigger	MCL	Method	Analyst	Qualifier
0118	Aldrin	ND	ug/L	0.2	0.2		EPA 505	MAH	
0123	Dieldrin	ND	ug/L	0.1	0.1		EPA 505	MAH	
0173	Aroclor 1221	ND	ug/L	20	20		EPA 505	MAH	
0174	Aroclor 1232	ND	ug/L	0.5	0.5		EPA 505	MAH	
0175	Aroclor 1242	ND	ug/L	0.3	0.3		EPA 505	MAH	
0176	Aroclor 1248	ND	ug/L	0.1	0.1		EPA 505	MAH	
0177	Aroclor 1254	ND	ug/L	0.1	0.1		EPA 505	MAH	
0178	Aroclor 1260	ND	ug/L	0.2	0.2		EPA 505	MAH	
0180	Aroclor 1016	ND	ug/L	0.08	0.08		EPA 505	MAH	

### State Unregulated

DOH #	Analytes	Result	Units	SRL	Trigger	MCL	Method	Analyst	Qualifier
0233	4,4'-DDE	ND	ug/L	0.1	0.1		EPA 505	MAH	
0234	4,4'-DDT	ND	ug/L	0.1	0.1		EPA 505	MAH	
0232	4,4'-DDD	ND	ug/L	0.1	0.1		EPA 505	MAH	

**Notes:** ND = Not Detected within the sensitivity of the instrument  
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SRL - Minimum reporting level for Washington DOH  
MCL - EPA maximum contaminant level  
Trigger - Washington DOH response level. If results exceed this level, contact the DOH

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Lab Supervisor: John W. Cuth

Date: 6/5/2015

**TEDSI INFRASTRUCTURE GROUP****TEDSI***Consulting Engineers*1201 E. Expressway 83 • Mission, Texas 78572  
(956) 424-7898

## Letter of Transmittal

TO:

Mr. Noe Saldivar  
Hidalgo County Drainage District No. 1  
902 N. Doolittle Road  
Edinburg, Texas 78542

DATE:

June 17, 2015

REF.:

Delta Watershed PPD May Invoice

TEDSI PROJECT NO.:

2013-1128-14

TRANSMITTED:



For Your Use



Please comment



Approved as Noted



As Requested



Reply ASAP



As Noted Below

VIA:



US Mail



Courier



Hand Carry



E-Mail



LoneStar Overnight



FedEx

COPIES

DESCRIPTION

1

Invoice No. 20152384 for Project No. 2013-1128-14 along with sub invoice(s)

1

Progress Report No. 015

2

AMTEST reports

1

CD (digital copies of items listed above)

REMARKS:

Thank you,

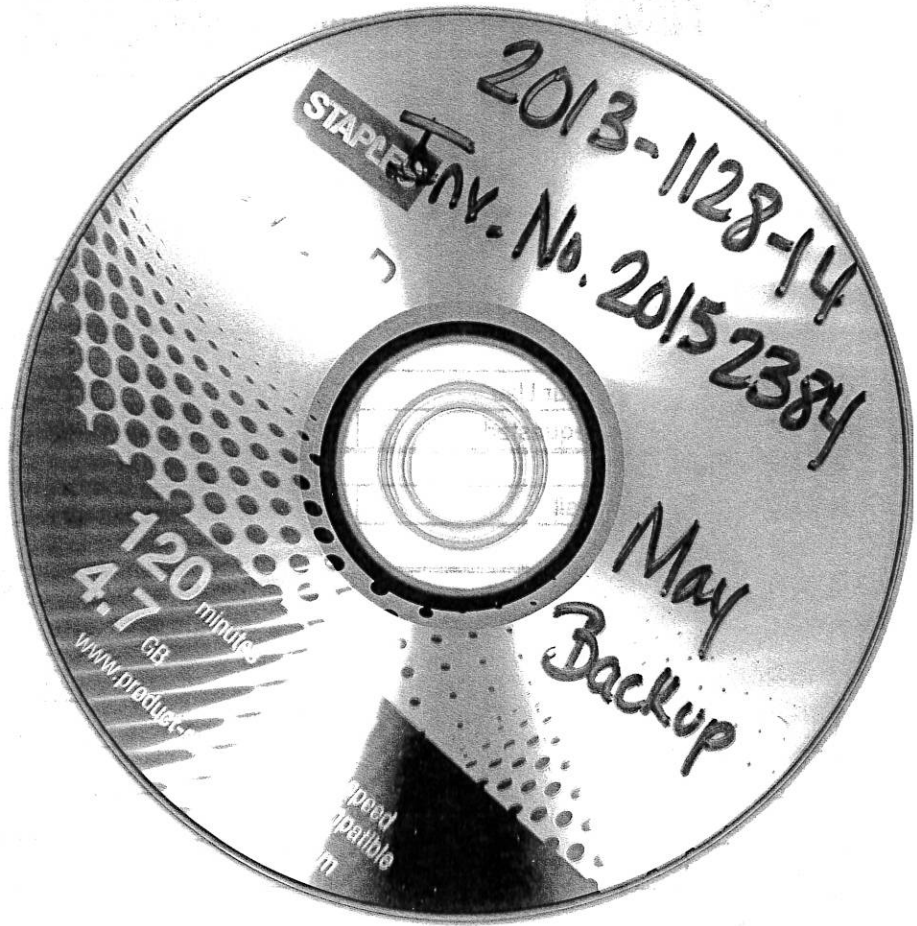
**RECEIVED**  
HIDALGO COUNTY  
DRAINAGE DISTRICT #1

JUN 19 2015

2:15 AM/PM

BY: *Rosa Are*Signed: *for: Clay*

Mark W. Lupher, P.E., RPLS



RECEIVED  
FEB 13 2014  
STAPLES

ON 13 2014

STAPLES

STAPLES



# Hidalgo County Drainage District No. 1

902 North Doolittle Road Edinburg, Texas 78542 Office: (956) 292-7080 Fax: (956) 292-7089

## Invoice Processing Checklist

Date Received: 6/1/2015

Engineer/Firm Name: L&G Engineering

Project Name/Number: La Joya Watershed Imp. WA No. 4

Invoice No.: 11325166

Purchase Order No.: 625396

Received By: Rosa Arce

Forwarded to: Joey Garza

Total # of Pages Submitted: 15

Attachments: Invoice No. 11325165, 11325167, 11325163 & Penitas Basin

Additional Comments:

CD Included

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**L&G Engineering**  
 Transportation Consulting Engineers

2100 W. Expressway 83  
 Mercedes, TX 78570  
 Phone: (956) 565-9813  
 Fax: (956) 565-9018  
 Toll Free: (888) 565-9813  
 Firm No. F-4105

900 S. Stewart Rd., Ste. 10  
 Mission, TX 78572  
 Phone: (956) 585-1909  
 Fax: (956) 585-1927  
 Toll Free: (866) 585-1909

# Letter of Transmittal

**Mr. Raul Sesin, P.E. – District Manager**  
 Hidalgo County Drainage District #1  
 902 N. Doolittle Rd.  
 Edinburg, Texas 78542

**DATE:**  
 June 1, 2015

**Project: Progress Report & Invoice Package for Various Work Authorizations**  
 La Joya Watershed Improvement Project  
 Mission Inlet Recertification Project  
 Pharr McAllen Drain & South Flood Water Channel Watershed Improvement Project

**L&G PROJECT NO.:**

**TRANSMITTED:**

- |  |   |  |
|--|---|--|
| <input checked="" type="checkbox"/> For Your Use | <input type="checkbox"/> Please comment | <input type="checkbox"/> Approved as Noted |
| <input type="checkbox"/> As Requested            | <input type="checkbox"/> Reply ASAP     | <input type="checkbox"/> As Noted Below    |

**VIA:**

- |                                  |   |  |
|----------------------------------|---|--|
| <input type="checkbox"/> US Mail | <input type="checkbox"/> Courier            | <input checked="" type="checkbox"/> Hand Carry |
| <input type="checkbox"/> E-Mail  | <input type="checkbox"/> Lonestar Overnight | <input type="checkbox"/> Pick up               |

COPIES	DESCRIPTION
1	Progress Report and Invoice Package (including CD w/Electronic Files) for the following Project:
	<ul style="list-style-type: none"> <li>• Work Authorization #4 on La Joya Watershed Improvement Project               <ul style="list-style-type: none"> <li>○ P.O. #625396, Invoice #11325166 - <i>WTRNSM. (15)</i></li> </ul> </li> <li>• Work Authorization #1 on La Joya Watershed Improvement Project               <ul style="list-style-type: none"> <li>○ P.O. #625396, Invoice #11325165 ( )                   <ul style="list-style-type: none"> <li>▪ 3 Copies of <u>Penitas Basin</u> Final Report</li> </ul> </li> </ul> </li> <li>• Work Authorization #4 on Mission Inlet Recertification Project               <ul style="list-style-type: none"> <li>○ P.O. #624010, Invoice #11325167 ( 5 )</li> </ul> </li> <li>• Work Authorization #1 on Pharr McAllen Drain &amp; South Flood Water Channel               <ul style="list-style-type: none"> <li>○ P.O. #624010, Invoice #11325163 ( 8 )</li> </ul> </li> </ul>

**REMARKS:**

If you have any questions or comments, please feel free to contact me, Mr. David Saenz, P.E. at (956) 585-1909.

Thank you,

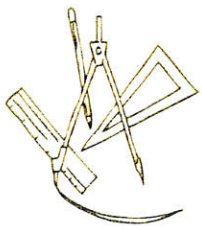
Signed: \_\_\_\_\_

**RECEIVED**  
 HIDALGO COUNTY  
 DRAINAGE DISTRICT #1

JUN 01 2015

*7:50:00* AM (PM)

BY: *Rosa Arce*



# L&G Consulting Engineers, Inc.

June 1, 2015

**Mr. Raul Sesin, P.E. – District Manager**

Hidalgo County Drainage District #1

902 N. Doolittle

Edinburg, Texas 78542

**RE: Work Authorization #4 on La Joya Watershed Improvement Project**

**Job # 130104**

**P.O. # 625396**

Dear Mr. Sesin,

Attached for your review and approval is our invoice for the services rendered during the month of May 2015 on the subject referenced project.

The following is attached:

- L&G's Invoice #11325166
- CD w/ Electronic Files of Data for:
  - R.O.W. Surveying Services – Monthly Progress Reports and Invoices (#R15-032, #R15-031, #R15-033) – May 31, 2015
  - Task A (Task 1a, 2a, 3a & 4a)
  - Task B (Task 1b, 2b, 3b & 4b)
  - Task C (Task 1c, 2c & 5c)

TASK		% COMPL
<b><u>Task A</u></b> <b>Construction Plans for Liberty Pit Detention Facility</b>		
Task 1a ~ Coordination & Management of ROW and Design Survey, & Geotechnical	L&G	100%
<b>Update – Task Complete</b> – L&G has held weekly meetings with R.O.W. SS and has coordinated the ROW and Design Survey aspect of this project through to completion.		
Task 2a ~ (SUB): Field and Design Survey (Utility Locates) - #3 (FC150)	ROW SS	100%
<b>Update – Task Complete</b> – See progress report (#R15-032) from R.O.W. S.S dated May 31, 2015 (see attached)		
Task 3a ~ (SUB): ROW Map, Parcel Sketches & Field Notes - #3 (FC130)	ROW SS	100%
<b>Update – Task Complete</b> – See progress report (#R15-032) from R.O.W. S.S dated May 31, 2015 (see attached)		
Task 4a ~ Acquisition of ROW for Proposed Facility; Negotiation with Land Owner(s)	L&G ROW	54.2%
<b>Update</b> – All project files and necessary documentation have been created and		

organized at the L&G office for project implementation and initiation. All title commitments were received from Sierra Title Co. Offer packages have been mailed out via priority mail certified return receipt per Title 2 & 3 of the Uniform Act.		
Task 5a ~ (SUB): Geotechnical Exploration & Analyses for Proposed Facility - #2	L&G LAB	100.0%
<b>Task Complete</b> – See progress report from L&G Lab dated April 30, 2015		
Task 6a ~ Conceptual Site Plan Identifying 60% of Recovered ROW & Design Surveys (Prior to PS&E Release)	L&G	100.0%
<b>Task Complete</b> – See progress report dated January 2, 2015		
Task 7a ~ Plans, Specifications & Estimates (PS&E) for Proposed Facility & 400ft. Zone for Commercial Development	L&G	80.0%
<b>No Update</b> – See progress report dated March 2, 2015		
<b>Task B</b> <b>Construction Plan for South Basin Pit Detention Facility</b>		
Task 1b ~ Coordination & Management of ROW and Design Survey, & Geotechnical	L&G	100%
<b>Update – Task Complete</b> – L&G has held weekly meetings with R.O.W. SS and has coordinated the ROW and Design Survey aspect of this project through to completion.		
Task 2b ~ (SUB): Field and Design Survey (Utility Locates) - #3 (FC150)	ROW SS	100%
<b>Update – Task Complete</b> – See progress report (#R15-031) from R.O.W. S.S dated May 31, 2015 (see attached)		
Task 3b ~ (SUB): ROW Map, Parcel Sketches & Field Notes - #3 (FC130)	ROW SS	100%
<b>Update – Task Complete</b> – See progress report (#R15-031) from R.O.W. S.S dated May 31, 2015 (see attached)		
Task 4b ~ Acquisition of ROW for Proposed Facility; Negotiation with Land Owner(s)	L&G ROW	34.5%
<b>Update</b> – All project files and necessary documentation have been created and organized at the L&G office for project implementation and initiation. All title commitments were received from Sierra Title Co. Offer packages have been mailed out via priority mail certified return receipt per Title 2 & 3 of the Uniform Act.		
Task 5b ~ (SUB): Geotechnical Exploration & Analyses for Proposed Facility - #2	L&G LAB	100.0%
<b>Task Complete</b> – See progress report from L&G Lab dated April 30, 2015		
Task 6b ~ Conceptual Site Plan Identifying 60% of Recovered ROW & Design Surveys (Prior to PS&E Release)	L&G	100.0%
<b>Task Complete</b> – See progress report dated January 2, 2015		
Task 7b ~ Plans, Specifications & Estimates (PS&E) for Proposed Facility	L&G	80.0%
<b>No Update</b> – See progress report dated March 2, 2015		

<b>Task C</b>		
<b>Phase I Outfall Development of La Joya Watershed Drainage Master Plan</b>		
Task 1c ~ Coordination & Management of ROW Base Map, Design Survey & Geotechnical	L&G	44.8%
<b>Update</b> – L&G has held weekly meetings with R.O.W. Surveying Services, LLC and continued to coordinate the ROW and Design Survey aspect of this project.		
Task 2c ~ Design Surveys (Utility Locates) - #3 (FC150)	ROW SS	75.0%
<b>Update</b> – See progress report (#R15-033) from R.O.W. S.S dated May 31, 2015 (see attached)		
Task 3c ~ (SUB): Geotechnical Exploration & Analyses for Proposed Facility	L&G LAB	0.0%
<b>Task Not Started</b>		
Task 4c ~ Preliminary Detailed Schematic for Proposed Phase I Outfall	L&G	100.0%
<b>Task Complete</b> – See progress report dated February 2, 2015		
Task 5c ~ Plans, Specifications & Estimates (PS&E) for Proposed Facility	L&G	60.0%
<b>Update</b> – L&G has continued project development of PS&E including Title Sheet, Overall Project Layout, Plan & Profile (P&P) Sheets, Culvert Crossings, preliminary cross sections and incorporation of pertinent Design Standards.		

Should you have any questions regarding this submittal or would like clarification on any aspect of the project, please do not hesitate to call me at (956) 585-1909.

Sincerely,

---

David Saenz, P.E., C.F.M.  
Project Manager  
L&G Engineering

**L & G Consulting Engineers Inc**  
**2100 W. Expressway 83**  
**Mercedes, TX 78570**  
**(956)565-9813 Fax (956)565-9018**

**INVOICE#:** 11325166  
**INVOICE DATE:** 5/31/2015

**RECEIVED**  
 HIDALGO COUNTY  
 DRAINAGE DISTRICT #1

**BILL TO:**  
 Hidalgo County Drainage District#1  
 902 N. Doolittle  
 Edinburg, TX 78542

**JUN 01 2015**  
 5:00 AM (PM)  
 BY: *Rosalva*

**JOB:**130104  
 La Joya Watershed Imp  
 WA#4  
 PO #625396

DESCRIPTION	CONTRACT	PREVIOUS APPLICATIONS	CURRENT COMPLETED	TOTAL COMPLETED	% COMPL	BALANCE TO FINISH
Engineering services for the month of May 2015.						
<b>Task A - Construction Plans for Liberty Pit Detention Facility</b>						
13001-Task 1a - Coord. & Management of ROW & Design Survey	10,704.28	10,010.24	694.04	10,704.28	100.0	-
15010-Task 2a - SUB: Field & Design Survey (Utlity Locates	27,168.00	24,451.00	2,717.00	27,168.00	100.0	-
13010-Task 3a - SUB: ROW Map Parcel Sketches & Field Notes	22,400.00	20,160.00	2,240.00	22,400.00	100.0	-
60001-Task 4a - Acquisition of ROW for Proposed Facility	28,100.00	5,400.00	9,825.00	15,225.00	54.2	12,875.00
33010-Task 5a - SUB: Geotech. Exploration & Analysis	27,538.64	27,538.64		27,538.64	100.0	-
11006-Task 6a - Conceptual Site Plan Identify 60% of Reco	11,498.80	11,498.80		11,498.80	100.0	-
16001-Task 7a - Plans, Specification & Estimates (PS&E)	50,384.04	40,317.32		40,317.32	80.0	10,066.72
<b>Task B - Construction Plans for South Basin Pit Detention Facility</b>						
13002-Task 1b - Coord. & Management of ROW & Design Survey	7,928.16	7,446.71	481.45	7,928.16	100.0	-
15020-Task 2b - SUB: Field & Design Survey (Utlity Locates	24,935.00	22,442.00	2,493.00	24,935.00	100.0	-
13020-Task 3b - SUB: ROW Map Parcel Sketches & Field Notes	7,488.00	6,739.00	749.00	7,488.00	100.0	-
60003-Task 4b - Acquisition of ROW for Proposed Facility	14,800.00	0.00	5,100.00	5,100.00	34.5	9,700.00
33320-Task 5b - SUB: Geotech. Exploration & Analysis	21,162.28	21,162.28		21,162.28	100.0	-
11007-Task 6b - Conceptual Site Plan Identify 60% of Reco	8,966.44	8,966.44		8,966.44	100.0	-
16002-Task 7b - Plans, Specification & Estimates (PS&E)	33,589.36	26,874.03		26,874.03	80.0	6,715.33
<b>Task C - Phase I Outfall Development of La Joya Watershed Drainage Master Plan</b>						
13003-Task 1c - Coord. & Management of ROW Base Map, Desig	13,030.24	4,951.97	887.86	5,839.83	44.8	7,190.41
15030-Task 2c - SUB: Desgin Survey (Utlity Locates	67,062.00	40,237.00	10,059.50	50,296.50	75.0	16,765.50
33030-Task 3c - SUB: Geotechnical Exploration & Analysis	29,301.96	0.00		0.00	0.0	29,301.96
11008-Task 4c - Preliminary Detailed Schematic for Propose	37,866.28	37,866.28		37,866.28	100.0	-
16003-Task 5c - Plans, Specifications & Estimates (PS&E)	200,524.00	100,283.73	20,089.98	120,373.71	60.0	80,150.29
	644,447.48	416,345.44	55,336.83	471,682.27	73.2	172,765.21
<b>TOTALS:</b>	<u>644,447.48</u>	<u>416,345.44</u>	<u>55,336.83</u>	<u>471,682.27</u>	<u>73.2</u>	<u>172,765.21</u>

ORIGINAL CONTRACT SUM \$ 644,447.48  
 CHANGE BY CHANGE ORDER \$ 0.00  
 CONTRACT SUM TO DATE \$ 644,447.48  
 TOTAL COMPLETED TO DATE \$ 471,682.27  
 LESS PREVIOUS INVOICES \$ 416,345.44  
 CURRENT PAYMENT DUE \$ 55,336.83

  
 PROJECT MANAGER'S SIGNATURE

L&G Consulting Engineers, Inc  
 2100 W. Expressway 83  
 Mercedes, Texas 78570  
 (956) 565-9813

**Project Workhour Report**

La Joya Watershed Improvements WA#4  
 Reference: Inv# 11325166  
 Date: 5/31/2015  
 P.O. #625396

	Hrs		Rate	Total
Senior Project Manager	17.00	X	212.59	\$3,614.03
Senior Engineer	22.00	X	175.07	\$3,851.54
Design Engineer	64.00	X	112.55	\$7,203.20
Senior Engineer Tech	90.00	X	78.16	\$7,034.40
Admin/Clerical	8.00	X	56.27	\$450.16

**Grand Total of Hours**

**\$ 22,153.33**

(Difference due to rounding hours)

\$ -

<b>Invoice Summary</b>				
Man Hours				<b>\$ 22,153.33</b>
Sub Contract				<b>\$ 33,183.50</b>
<small>(See Attached Sub Invoice for Man Hour Breakdown)</small>				
Direct Expenses	Current	Units	Rate	
10 Sets of Plans and Geo Report - As per contract requirements		0	X 500.00 \$	-
				<b>\$ -</b>
				<b>\$ -</b>
<small>(Difference due to rounding)</small>				
<b>Total Per Invoice Submitted</b>				<b>\$ 55,336.83</b>

*DAS*

# R. O. W. SURVEYING SERVICES, L.L.C.

May 31, 2015

Jacinto Garza, President/CEO  
L & G Engineering  
**Attn: Reza Badiozzamani, P.E.**  
2100 W. Expressway 83  
Mercedes, Texas 78570

**RE: Liberty Road Caliche Pit-Work Authorization #8**  
**Invoice #R15-032 Limits: Liberty Road Caliche Pit**

Dear Mr. Badiozzamani:

Attached for your approval is our invoice for services rendered for the month of May, 2015:

ROW's Invoice

Exhibit C – Work Schedule

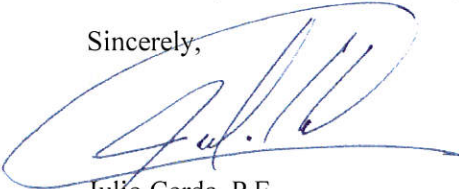
Progress Report

	Contract Amount	Invoice to Date	Paid to Date	Current Amount Due	Contract Balance	Percent Complete
<b>FC 130 – ROW Map</b>						
Phase I – ROW Map, Parcel Description, Metes & Bounds Description, :& Title Reports	\$22,400	\$22,400	\$20,160	\$2,240	\$-0-	100%
<b>FC 150-Field Surveying</b>						
Phase I - Primary & Secondary Control Phase II – DTM Topography and Cross-Sections Phase III – Final Report and Deliverables Project Management & Oversight	\$27,168	\$27,168	\$24,451	\$2,717	\$-0-	100%
<b>Total</b>	<b>\$49,568</b>	<b>\$49,568</b>	<b>\$44,611</b>		<b>\$-0-</b>	<b>100%</b>
			<i>Total Due</i>	<b>\$4,957</b>		

Make Checks Payable to: **R.O.W. Surveying Services, LLC.**

Thank you for your business. Should you have any questions or require additional information, please do not hesitate to give me a call at (956) 451-2670.

Sincerely,



Julio Cerda, P.E.  
President/CEO

*DAJ*



# R. O. W. SURVEYING SERVICES, L.L.C.

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## Liberty Road Caliche Pit Progress Report as of 05/31/15:

### *Project Management:*

- Have met with prime consultant (L&G Engineering) to update project progress, scope, and final deliverable.
- Meet with TxDOT, L&G, and Hidalgo County in reference to ongoing projects in the Peñitas area.
- Requested from Urban County survey control, right of way map and project benchmarks that would be beneficial to survey. None provided.
- Coordinate office staff on daily assignments and project progress.
- Final submittal-all Project Management complete.

### *General Task:*

- Field verify existing structures and collected field data.
- Complete boundary survey and exhibit.
- Base map completed.
- Parcel sketches with Metes and Bounds completed, signed and sealed copies attached.
- Final submittal-General Task complete.

# R. O. W. SURVEYING SERVICES, L.L.C.

May 31, 2015

Jacinto Garza, President/CEO  
L & G Engineering  
**Attn: Reza Badiozzamani, P.E.**  
2100 W. Expressway 83  
Mercedes, Texas 78570

**RE: Tress Detention-Work Authorization #8**  
**Invoice #R15-031 Limits: Tress Detention**

Dear Mr. Badiozzamani:

Attached for your approval is our invoice for services rendered for the month of May, 2015:

ROW's Invoice

Exhibit C – Work Schedule

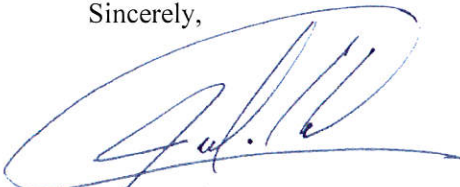
Progress Report

	Contract Amount	Invoice to Date	Paid to Date	Current Amount Due	Contract Balance	Percent Complete
<b>FC 130 – ROW Map</b>						
Phase I – ROW Map, Parcel Description, Metes & Bounds Description, :& Title Reports	\$7,488	\$7,488	\$6,739	\$749	\$-0-	100%
<b>FC 150-Field Surveying</b>						
Phase I - Primary & Secondary Control Phase II – DTM Topography and Cross-Sections Phase III – Final Report and Deliverables Project Management & Oversight	\$24,935	\$24,935	\$22,442	\$2,493	\$-0-	100%
<b>Total</b>	<b>\$32,423</b>	<b>\$32,423</b>	<b>\$29,181</b>		<b>\$-0-</b>	<b>100%</b>
			<i>Total Due</i>	<b>\$3,242</b>		

Make Checks Payable to: **R.O.W. Surveying Services, LLC.**

Thank you for your business. Should you have any questions or require additional information, please do not hesitate to give me a call at (956) 451-2670.

Sincerely,



Julio Cerda, P.E.  
President/CEO

DAS



# R. O. W. SURVEYING SERVICES, L.L.C.

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## **Tress Property Progress Report as of 05/31/15:**

### ***Project Management:***

- Have met with prime consultant (L&G Engineering) to update project progress, scope, and final deliverable.
- Met with TxDOT and other consultants with ongoing projects in the Peñitas area
- Coordinate office staff on daily assignments and project progress.
- Final submittal--all Project Management Complete.

### ***General Task:***

- Complete topographic survey.
- Complete processing field data.
- Complete DGN, Geopak, and deliverable.
- Field verify all existing structures and collected data.
- Final submittal—General Task Complete.

# R. O. W. SURVEYING SERVICES, L.L.C.

May 31, 2015

Jacinto Garza, President/CEO  
L & G Engineering  
**Attn: Reza Badiozzamani, P.E.**  
2100 W. Expressway 83  
Mercedes, Texas 78570

**RE: La Joya Watershed-Work Authorization #8**  
**Invoice #R15-033**  
**Limits: From: 3 ½ Mile North Tom Gil To: Liberty Road Caliche Pit**

Dear Mr. Badiozzamani:

Attached for your approval is our invoice for services rendered for the month of May, 2015:

ROW's Invoice

Exhibit C – Work Schedule

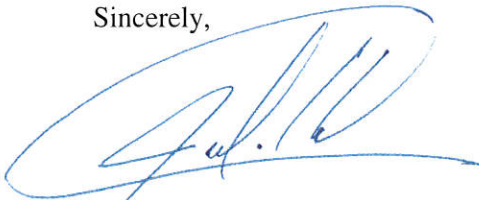
Progress Report

	<b>Contract Amount</b>	<b>Invoice to Date</b>	<b>Paid to Date</b>	<b>Current Amount Due</b>	<b>Contract Balance</b>	<b>Percent Complete</b>
<b>FC 150-Field Surveying</b>						
Phase I - Primary & Secondary Control Phase II – DTM Topography and Cross-Sections Phase III – Final Report and Deliverables Project Management & Oversight	<b>\$67,062</b>	<b>\$50,297</b>	<b>\$28,062</b>	<b>\$10,060</b>	<b>\$16,765</b>	<b>75%</b>
<b>Total</b>	<b>\$67,062</b>	<b>\$50,297</b>	<b>\$28,062</b>		<b>\$16,765</b>	<b>75%</b>
		<b>Total Due</b>		<b>\$10,060</b>		

Make Checks Payable to: **R.O.W. Surveying Services, LLC.**

Thank you for your business. Should you have any questions or require additional information, please do not hesitate to give me a call at (956) 451-2670.

Sincerely,



Julio Cerda, P.E.  
President/CEO





# R. O. W. SURVEYING SERVICES, L.L.C.

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La Joya Outfall Progress Report as of 05/31/15:

***Project Management:***

- Continued communication between landowners regarding right of entry. Research two land owners whom did not respond to request to enter.
- Met with TxDOT, Hidalgo County, L&G regarding ongoing projects in the Peñitas area
- Coordinate office staff on daily assignments and project progress
- Coordinate with gas companies within project limits to locate and identify depths of existing lines.

***General Task:***

- Complete field topography survey from beginning to end of project, 100 foot cross sections identifying all visible utilities. Gas lines still need to be verified. Begin CADD work for final deliverable.
- Begin Horizontal and Vertical Control sheets
- Continue to process field data for final deliverable.
- Update digital files for invoice.