



P.O. Box 1089 Coldspring Tx 77331  
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July 20, 2020

Texas A&M Agrilife  
Texas A and M AgriLife  
1335 Regents Park Dr. Ste. 260  
Houston, TX 77058

**TX A and M Community Stormwater**

Enclosed are the results of analyses for samples received by the laboratory on 06/23/20 14:30, with Lab ID Number C0F5173. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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Mark Bourgeois  
Special Projects Manager



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Texas A and M AgriLife  
 1335 Regents Park Dr. Ste. 260  
 Houston TX, 77058

**LABORATORY ANALYTICAL REPORT**

Project: TX A and M Community Stormwater  
 Sample Matrix: Water  
 Client Matrix: Water

Sample Date & Time: 06/22/2020 13:02  
 Collector: CT  
 Sample Type: Grab  
 Print Date: 7/20/2020

**PTWB 302-4  
 C0F5173-01 (Water)**

Analyte	Result	Reporting Limit	Units	Nelac Status	Batch	Analyzed Date & Time	Method	Notes
<b><u>Metals</u></b>								
Arsenic, Total	0.00152	0.000500	mg/L	A	B0F3160	06/24/2020 15:44	EPA 200.8	
Barium, Total	0.0255	0.00300	mg/L	A	B0F3160	06/24/2020 15:44	EPA 200.8	
Cadmium, Total	<0.00100	0.00100	mg/L	A	B0F3160	06/24/2020 15:44	EPA 200.8	
Chromium, Total	0.00370	0.00300	mg/L	A	B0F3160	06/24/2020 15:44	EPA 200.8	
Lead, Total	<0.000500	0.000500	mg/L	A	B0F3160	06/24/2020 15:44	EPA 200.8	
Mercury, Total	<0.000200	0.000200	mg/L	A	B0F3311	06/25/2020 15:50	EPA 245.1	
Selenium, Total	<0.00500	0.00500	mg/L	A	B0F3160	06/24/2020 15:44	EPA 200.8	
Silver, Total	<0.000500	0.000500	mg/L	A	B0F3160	06/24/2020 15:44	EPA 200.8	
Total Phosphorus	<0.0600	0.0600	mg/L	A	B0F3837	07/06/2020 10:38	EPA 200.7	

**Microbiological Lab**

E coli IDEXX	10	10	mpn/100ml	A	B0F3192	06/23/2020 14:58	Colilert 18	
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**Organics**

<b><u>TPH TX 1005</u></b>								
TPH (>C6 - C12)	<2.00	2.00	mg/L	A	B0G0348	07/15/2020 14:03	TX 1005	
TPH (>C12 - C28)	<2.00	2.00	mg/L	A	B0G0348	07/15/2020 14:03	TX 1005	
TPH (>C28 - C35)	<5.00	5.00	mg/L	A	B0G0348	07/15/2020 14:03	TX 1005	
Total TPH (>C6-C35)	<5.00	5.00	mg/L		B0G0348	07/15/2020 14:03	TX 1005	
Surrogate: 1-Chlorooctane			102 %		70-130	B0G0348	07/15/2020 14:03	TX 1005
Surrogate: o-Terphenyl			107 %		70-130	B0G0348	07/15/2020 14:03	TX 1005

**Wet Lab**

Ammonia as N	<0.1	0.1	mg/L	A	B0F3313	06/25/2020 18:14	SM 4500 NH3 G	
Nitrate+Nitrite as N	0.24	0.02	mg/L	A	B0G0209	07/08/2020 17:00	SM 4500 NO3 F	20
TSS	3.6	1.0	mg/L	A	B0F3098	06/24/2020 13:05	SM 2540 D	

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**SM 2540 D - Quality Control**  
**Eastex Environmental Laboratory - Coldspring**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B0F3098 - No Prep**

**Blank (B0F3098-BLK1)** Prepared & Analyzed: 6/24/2020 1:05:00PM

TSS ND 1.0 mg/L

**Duplicate (B0F3098-DUP1)** Source: C0F4770-01 Prepared & Analyzed: 6/24/2020 1:05:00PM

TSS 165 1.0 mg/L 165 0.00 10

**Batch B0F3160 - EPA 200.8**

**Blank (B0F3160-BLK1)** Prepared & Analyzed: 6/24/2020 1:20:05PM

Arsenic, Total ND 0.000500 mg/L  
 Barium, Total ND 0.00300 mg/L  
 Cadmium, Total ND 0.00100 mg/L  
 Chromium, Total ND 0.00300 mg/L  
 Lead, Total ND 0.000500 mg/L  
 Selenium, Total ND 0.00500 mg/L  
 Silver, Total ND 0.000500 mg/L

**LCS (B0F3160-BS1)** Prepared & Analyzed: 6/24/2020 1:25:17PM

Arsenic, Total 0.0983 0.000500 mg/L 0.100 98.3 85-115  
 Barium, Total 0.0972 0.00300 mg/L 0.100 97.2 85-115  
 Cadmium, Total 0.0985 0.00100 mg/L 0.100 98.5 85-115  
 Chromium, Total 0.108 0.00300 mg/L 0.100 108 85-115  
 Lead, Total 0.0985 0.000500 mg/L 0.100 98.5 85-115  
 Selenium, Total 0.105 0.00500 mg/L 0.100 105 85-115  
 Silver, Total 0.0862 0.000500 mg/L 0.100 86.2 85-115

**Matrix Spike (B0F3160-MS1)** Source: C0F4525-01 Prepared & Analyzed: 6/24/2020 1:40:46PM

Arsenic, Total 0.100 0.000500 mg/L 0.100 0.000640 99.5 70-130  
 Barium, Total 0.132 0.00300 mg/L 0.100 0.0381 94.4 70-130  
 Cadmium, Total 0.0957 0.00100 mg/L 0.100 ND 95.7 70-130  
 Chromium, Total 0.101 0.00300 mg/L 0.100 ND 101 70-130  
 Lead, Total 0.0942 0.000500 mg/L 0.100 ND 94.2 70-130  
 Selenium, Total 0.110 0.00500 mg/L 0.100 ND 110 70-130  
 Silver, Total 0.0823 0.000500 mg/L 0.100 ND 82.3 70-130

**Matrix Spike Dup (B0F3160-MSD1)** Source: C0F4525-01 Prepared & Analyzed: 6/24/2020 1:45:53PM

Arsenic, Total 0.101 0.000500 mg/L 0.100 0.000640 100 70-130 0.419 20  
 Barium, Total 0.133 0.00300 mg/L 0.100 0.0381 94.6 70-130 0.150 20  
 Cadmium, Total 0.0986 0.00100 mg/L 0.100 ND 98.6 70-130 2.97 20

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**EPA 200.8 - Quality Control**  
**Eastex Environmental Laboratory - Coldspring**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B0F3160 - EPA 200.8**

<b>Matrix Spike Dup (B0F3160-MSD1)</b>		<b>Source: C0F4525-01</b>			<b>Prepared &amp; Analyzed: 6/24/2020 1:45:53PM</b>					
Chromium, Total	0.106	0.00300	mg/L	0.100	ND	106	70-130	5.25	20	
Lead, Total	0.0955	0.000500	mg/L	0.100	ND	95.5	70-130	1.39	20	
Selenium, Total	0.109	0.00500	mg/L	0.100	ND	109	70-130	0.270	20	
Silver, Total	0.0851	0.000500	mg/L	0.100	ND	85.1	70-130	3.43	20	

**Batch B0F3192 - No Prep Micro**

<b>Blank (B0F3192-BLK1)</b>		<b>Prepared &amp; Analyzed: 6/23/2020 2:58:00PM</b>									
E coli IDEXX	ND	1	mpn/100ml								
<b>Duplicate (B0F3192-DUP1)</b>		<b>Source: C0F4617-01</b>			<b>Prepared &amp; Analyzed: 6/23/2020 2:58:00PM</b>						
E coli IDEXX	4	2	mpn/100ml	ND					200		

**Batch B0F3311 - EPA 245.1**

<b>Blank (B0F3311-BLK1)</b>		<b>Prepared &amp; Analyzed: 6/25/2020 2:26:16PM</b>								
Mercury, Total	ND	0.000200	mg/L							
<b>LCS (B0F3311-BS1)</b>		<b>Prepared &amp; Analyzed: 6/25/2020 2:32:20PM</b>								
Mercury, Total	0.00234	0.000200	mg/L	0.00250	93.6	75-115				
<b>Matrix Spike (B0F3311-MS1)</b>		<b>Source: C0F5173-01</b>			<b>Prepared &amp; Analyzed: 6/25/2020 2:40:26PM</b>					
Mercury, Total	0.00292	0.000200	mg/L	0.00250	0.000103	113	70-130			
<b>Matrix Spike Dup (B0F3311-MSD1)</b>		<b>Source: C0F5173-01</b>			<b>Prepared &amp; Analyzed: 6/25/2020 2:42:27PM</b>					
Mercury, Total	0.00301	0.000200	mg/L	0.00250	0.000103	116	70-130	3.04	20	

**Batch B0F3313 - No Prep**

<b>Blank (B0F3313-BLK1)</b>		<b>Prepared &amp; Analyzed: 6/25/2020 5:53:00PM</b>								
Ammonia as N	ND	0.1	mg/L							
<b>LCS (B0F3313-BS1)</b>		<b>Prepared &amp; Analyzed: 6/25/2020 5:51:00PM</b>								
Ammonia as N	1.99		mg/L	2.00	99.7	90-110				
<b>Matrix Spike (B0F3313-MS1)</b>		<b>Source: C0F5030-01</b>			<b>Prepared &amp; Analyzed: 6/25/2020 5:55:00PM</b>					
Ammonia as N	145	0.1	mg/L	125	14.6	104	80-120			
<b>Matrix Spike Dup (B0F3313-MSD1)</b>		<b>Source: C0F5030-01</b>			<b>Prepared &amp; Analyzed: 6/25/2020 5:57:00PM</b>					
Ammonia as N	139	0.1	mg/L	125	14.6	99.4	80-120	3.99	20	

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**EPA 200.7 - Quality Control**  
**Eastex Environmental Laboratory - Coldspring**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B0F3837 - EPA 200.7</b>										
<b>Blank (B0F3837-BLK1)</b>				<b>Prepared &amp; Analyzed: 7/6/2020 9:52:58AM</b>						
Total Phosphorus	ND	0.0600	mg/L							
<b>Blank (B0F3837-BLK2)</b>				<b>Prepared &amp; Analyzed: 7/6/2020 10:56:18AM</b>						
Total Phosphorus	ND	0.0600	mg/L							
<b>Blank (B0F3837-BLK3)</b>				<b>Prepared &amp; Analyzed: 7/6/2020 11:55:21AM</b>						
Total Phosphorus	ND	0.0600	mg/L							
<b>LCS (B0F3837-BS1)</b>				<b>Prepared &amp; Analyzed: 7/6/2020 9:56:26AM</b>						
Total Phosphorus	2.62	0.0600	mg/L	2.52		104	85-115			
<b>LCS (B0F3837-BS2)</b>				<b>Prepared &amp; Analyzed: 7/6/2020 10:59:47AM</b>						
Total Phosphorus	2.54	0.0600	mg/L	2.52		101	85-115			
<b>LCS (B0F3837-BS3)</b>				<b>Prepared &amp; Analyzed: 7/6/2020 11:58:50AM</b>						
Total Phosphorus	2.73	0.0600	mg/L	2.52		108	85-115			
<b>LCS Dup (B0F3837-BSD1)</b>				<b>Prepared &amp; Analyzed: 7/6/2020 9:59:54AM</b>						
Total Phosphorus	2.58	0.0600	mg/L	2.52		103	85-115	1.22	20	
<b>LCS Dup (B0F3837-BSD2)</b>				<b>Prepared &amp; Analyzed: 7/6/2020 11:03:16AM</b>						
Total Phosphorus	2.57	0.0600	mg/L	2.52		102	85-115	1.13	20	
<b>LCS Dup (B0F3837-BSD3)</b>				<b>Prepared &amp; Analyzed: 7/6/2020 12:02:18PM</b>						
Total Phosphorus	2.74	0.0600	mg/L	2.52		109	85-115	0.371	20	
<b>MRL Check (B0F3837-MRL1)</b>				<b>Prepared &amp; Analyzed: 7/6/2020 9:49:29AM</b>						
Total Phosphorus	0.0554		mg/L	0.0600		92.3	0-200			
<b>Matrix Spike (B0F3837-MS1)</b>				<b>Source: C0F4195-01</b>		<b>Prepared &amp; Analyzed: 7/6/2020 10:14:33AM</b>				
Total Phosphorus	2.79	0.0600	mg/L	2.52	0.0348	109	70-130			
<b>Matrix Spike (B0F3837-MS2)</b>				<b>Source: C0F5535-01</b>		<b>Prepared &amp; Analyzed: 7/6/2020 11:13:41AM</b>				
Total Phosphorus	2.88	0.0600	mg/L	2.52	0.158	108	70-130			
<b>Matrix Spike (B0F3837-MS3)</b>				<b>Source: C0F6211-01</b>		<b>Prepared &amp; Analyzed: 7/6/2020 12:12:44PM</b>				
Total Phosphorus	2.92	0.0600	mg/L	2.52	0.0962	112	70-130			
<b>Batch B0G0209 - No Prep</b>										
<b>Blank (B0G0209-BLK1)</b>				<b>Prepared &amp; Analyzed: 7/8/2020 5:00:00PM</b>						

Eastex Environmental Laboratory - Coldspring

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**SM 4500 NO3 F - Quality Control**  
**Eastex Environmental Laboratory - Coldspring**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B0G0209 - No Prep</b>										
<b>Blank (B0G0209-BLK1)</b>				<b>Prepared &amp; Analyzed: 7/8/2020 5:00:00PM</b>						
Nitrate+Nitrite as N	ND	0.02	mg/L							
<b>LCS (B0G0209-BS1)</b>				<b>Prepared &amp; Analyzed: 7/8/2020 5:00:00PM</b>						
Nitrate+Nitrite as N	0.950		mg/L	1.00		95.0	90-110			
<b>Matrix Spike (B0G0209-MS1)</b>				<b>Source: C0F4922-01</b>		<b>Prepared &amp; Analyzed: 7/8/2020 5:00:00PM</b>				
Nitrate+Nitrite as N	1.16	0.02	mg/L	1.00	0.130	103	80-120			
<b>Matrix Spike Dup (B0G0209-MSD1)</b>				<b>Source: C0F4922-01</b>		<b>Prepared &amp; Analyzed: 7/8/2020 5:00:00PM</b>				
Nitrate+Nitrite as N	1.19	0.02	mg/L	1.00	0.130	106	80-120	2.55	20	
<b>Batch B0G0348 - No Prep- Organic</b>										
<b>Blank (B0G0348-BLK1)</b>				<b>Prepared &amp; Analyzed: 7/15/2020 11:05:00AM</b>						
TPH (>C6 - C12)	ND	2.00	mg/L							
TPH (>C12 - C28)	ND	2.00	mg/L							
TPH (>C28 - C35)	ND	5.00	mg/L							
Total TPH (>C6-C35)	ND	5.00	mg/L							
Surrogate: 1-Chlorooctane	37.2		mg/L	33.3		112	70-130			
Surrogate: o-Terphenyl	37.7		mg/L	33.3		113	70-130			
<b>LCS (B0G0348-BS1)</b>				<b>Prepared &amp; Analyzed: 7/15/2020 11:49:00AM</b>						
TPH (>C6 - C12)	32.2	2.00	mg/L	33.3		96.5	70-130			
TPH (>C12 - C28)	33.0	2.00	mg/L	33.3		99.1	70-130			
TPH (>C28 - C35)	66.4	5.00	mg/L	66.7		99.6	70-130			
Surrogate: 1-Chlorooctane	35.5		mg/L	33.3		106	70-130			
Surrogate: o-Terphenyl	34.2		mg/L	33.3		103	70-130			
<b>Matrix Spike (B0G0348-MS1)</b>				<b>Source: C0F5173-01</b>		<b>Prepared &amp; Analyzed: 7/15/2020 12:34:00PM</b>				
TPH (>C6 - C12)	32.7	2.00	mg/L	33.3	ND	98.1	70-130			
TPH (>C12 - C28)	34.5	2.00	mg/L	33.3	ND	103	70-130			
TPH (>C28 - C35)	68.5	5.00	mg/L	66.7	ND	103	70-130			
Surrogate: 1-Chlorooctane	36.3		mg/L	33.3		109	70-130			
Surrogate: o-Terphenyl	35.7		mg/L	33.3		107	70-130			
<b>Matrix Spike Dup (B0G0348-MSD1)</b>				<b>Source: C0F5173-01</b>		<b>Prepared &amp; Analyzed: 7/15/2020 1:18:00PM</b>				
TPH (>C6 - C12)	31.6	2.00	mg/L	33.3	ND	94.7	70-130	3.55	25	
TPH (>C12 - C28)	32.5	2.00	mg/L	33.3	ND	97.6	70-130	5.84	25	

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**TX 1005 - Quality Control**  
**Eastex Environmental Laboratory - Coldspring**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B0G0348 - No Prep- Organic**

Matrix Spike Dup (B0G0348-MSD1)	Source: C0F5173-01			Prepared & Analyzed: 7/15/2020 1:18:00PM						
TPH (>C28 - C35)	65.4	5.00	mg/L	66.7	ND	98.1	70-130	4.59	25	
Surrogate: 1-Chlorooctane	34.7		mg/L	33.3		104	70-130			
Surrogate: o-Terphenyl	33.7		mg/L	33.3		101	70-130			



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### Notes and Definitions

20	Sample pH not <2.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference





**EASTEX ENVIRONMENTAL LABORATORY, INC.**  
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 (936) 569-8879 • FAX (936) 569-8951  
 www.eastexlabs.com

Write Copy-Follows Samples  
 Yellow Copy-Laboratory  
 Pink Copy-Client Copy

REPORT TO: Christie Taylor

INVOICE TO: Christie Taylor

Company: Agrilife Extension

Company: Agrilife Extension

Remarks:

Address: 1335 Regents Park Dr 200

Address: 1335 Regents Park Dr 200

Attn: Christie Taylor

Attn: Christie Taylor

Phone#: 979-399-4009

Phone#: 979-399-4009

Email: ctaylor@tamuedu

P.O. #:

Sampler's Name (print):

Christie Taylor

Sampler's Signature:

Christie Taylor

Project Name:

Stormwater Sampling

Work Order ID	Sample ID	Date	Time	Matrix	C or G	DO	pH	CI2	Flow	Temp	#	Size	Type	Pres	Containers	Analysis Requested
CCFS173	PTW3302-416122	13:02	W	C	6.0	7.74	—	—	—	26.5	1	3	P	C	X	TSS
																NO <sub>2</sub> + NO <sub>3</sub>
																NH <sub>3</sub> N
																RCRA metals
																Total phosphate
																E. coli
																TPH

Relinquished By: Christie Taylor

Received By:

[Signature]

Date:

10/25/13

Received Iced: YES

Relinquished By: [Signature]

Received By:

[Signature]

Date:

10/25/13

Received Iced: YES

LAB USE ONLY

Sample Condition Acceptable:

YES

NO

Date:

10/15/13

Temp C:

14.15

\*Therm ID:

108530

Logged In By:

[Signature]

Date:

10/25/13

\*Thermometer has 0.0 factor and recorded temperature is actual temperature