



P.O. Box 1089 Coldspring Tx 77331
Website: eastexlabs.com
Email: eastexlab@eastex.net
Tel: 936 653 3249



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 C0F5174. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Mark Bourgeois
Special Projects Manager



P.O. Box 1089 Coldspring Tx 77331
 Website: eastexlabs.com
 Email: eastexlab@eastex.net
 Tel: 936 653 3249



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 12:15
 Collector: CT
 Sample Type: Grab
 Print Date: 7/20/2020

PTWB 301-4
C0F5174-01 (Water)

Analyte	Result	Reporting Limit	Units	Nelac Status	Batch	Analyzed Date & Time	Method	Notes
<u>Metals</u>								
Arsenic, Total	0.000517	0.000500	mg/L	A	B0F3160	06/24/2020 15:50	EPA 200.8	
Barium, Total	0.00589	0.00300	mg/L	A	B0F3160	06/24/2020 15:50	EPA 200.8	
Cadmium, Total	<0.00100	0.00100	mg/L	A	B0F3160	06/24/2020 15:50	EPA 200.8	
Chromium, Total	<0.00300	0.00300	mg/L	A	B0F3160	06/24/2020 15:50	EPA 200.8	
Lead, Total	<0.000500	0.000500	mg/L	A	B0F3160	06/24/2020 15:50	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 15:50	EPA 200.8	
Silver, Total	<0.000500	0.000500	mg/L	A	B0F3160	06/24/2020 15:50	EPA 200.8	
Total Phosphorus	<0.0600	0.0600	mg/L	A	B0F3837	07/06/2020 10:42	EPA 200.7	

Microbiological Lab

E coli IDEXX	20	10	mpn/100ml	A	B0F3192	06/23/2020 14:58	Colilert 18	
--------------	----	----	-----------	---	---------	------------------	-------------	--

Organics

TPH TX 1005

TPH (>C6 - C12)	<2.00	2.00	mg/L	A	B0G0348	07/15/2020 14:48	TX 1005	
TPH (>C12 - C28)	<2.00	2.00	mg/L	A	B0G0348	07/15/2020 14:48	TX 1005	
TPH (>C28 - C35)	<5.00	5.00	mg/L	A	B0G0348	07/15/2020 14:48	TX 1005	
Total TPH (>C6-C35)	<5.00	5.00	mg/L		B0G0348	07/15/2020 14:48	TX 1005	
Surrogate: 1-Chlorooctane			89.7 %		70-130	B0G0348	07/15/2020 14:48	TX 1005
Surrogate: o-Terphenyl			92.3 %		70-130	B0G0348	07/15/2020 14:48	TX 1005

Wet Lab

Ammonia as N	<0.1	0.1	mg/L	A	B0F3313	06/25/2020 18:16	SM 4500 NH3 G	
Nitrate+Nitrite as N	0.12	0.02	mg/L	A	B0G0209	07/08/2020 17:00	SM 4500 NO3 F	20
TSS	1.4	1.0	mg/L	A	B0F3098	06/24/2020 13:05	SM 2540 D	25



P.O. Box 1089 Coldspring Tx 77331
 Website: eastexlabs.com
 Email: eastexlab@eastex.net
 Tel: 936 653 3249



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

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

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	

Eastex Environmental Laboratory - Coldspring

*The results in this report apply to the samples analyzed in accordance with the chain of custody document.
 This analytical report must be reproduced in its entirety.*

*NELAC Status: A=Accredited, N=Accreditation not offered, O=Not Accredited, P=Approved



P.O. Box 1089 Coldspring Tx 77331
 Website: eastexlabs.com
 Email: eastexlab@eastex.net
 Tel: 936 653 3249



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

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B0F3160 - EPA 200.8

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

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

Batch B0F3311 - EPA 245.1

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

Batch B0F3313 - No Prep

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

Eastex Environmental Laboratory - Coldspring

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

*NELAC Status: A=Accredited, N=Accreditation not offered, O=Not Accredited, P=Approved



P.O. Box 1089 Coldspring Tx 77331
 Website: eastexlabs.com
 Email: eastexlab@eastex.net
 Tel: 936 653 3249



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

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

Eastex Environmental Laboratory - Coldspring

*The results in this report apply to the samples analyzed in accordance with the chain of custody document.
 This analytical report must be reproduced in its entirety.*

*NELAC Status: A=Accredited, N=Accreditation not offered, O=Not Accredited, P=Approved



P.O. Box 1089 Coldspring Tx 77331
 Website: eastexlabs.com
 Email: eastexlab@eastex.net
 Tel: 936 653 3249



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

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B0G0209 - No Prep

Blank (B0G0209-BLK1)		Prepared & Analyzed: 7/8/2020 5:00:00PM								
Nitrate+Nitrite as N	ND	0.02	mg/L							
LCS (B0G0209-BS1)		Prepared & Analyzed: 7/8/2020 5:00:00PM								
Nitrate+Nitrite as N	0.950		mg/L	1.00		95.0	90-110			
Matrix Spike (B0G0209-MS1)		Source: C0F4922-01		Prepared & Analyzed: 7/8/2020 5:00:00PM						
Nitrate+Nitrite as N	1.16	0.02	mg/L	1.00	0.130	103	80-120			
Matrix Spike Dup (B0G0209-MSD1)		Source: C0F4922-01		Prepared & Analyzed: 7/8/2020 5:00:00PM						
Nitrate+Nitrite as N	1.19	0.02	mg/L	1.00	0.130	106	80-120	2.55	20	

Batch B0G0348 - No Prep- Organic

Blank (B0G0348-BLK1)		Prepared & Analyzed: 7/15/2020 11:05:00AM								
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			
LCS (B0G0348-BS1)		Prepared & Analyzed: 7/15/2020 11:49:00AM								
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			
Matrix Spike (B0G0348-MS1)		Source: C0F5173-01		Prepared & Analyzed: 7/15/2020 12:34:00PM						
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			
Matrix Spike Dup (B0G0348-MSD1)		Source: C0F5173-01		Prepared & Analyzed: 7/15/2020 1:18:00PM						
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	

Eastex Environmental Laboratory - Coldspring

*The results in this report apply to the samples analyzed in accordance with the chain of custody document.
 This analytical report must be reproduced in its entirety.*

*NELAC Status: A=Accredited, N=Accreditation not offered, O=Not Accredited, P=Approved



P.O. Box 1089 Coldspring Tx 77331
 Website: eastexlabs.com
 Email: eastexlab@eastex.net
 Tel: 936 653 3249



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

TX 1005 - Quality Control
Eastex Environmental Laboratory - Coldspring

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

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			



P.O. Box 1089 Coldspring Tx 77331
Website: eastexlabs.com
Email: eastexlab@eastex.net
Tel: 936 653 3249



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

Notes and Definitions

- 25 Residue not in the method range of 2.5-200 mg.
- 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.
 P.O. Box 1089 • Coldspring, TX 77331 P.O. Box 631375 • Nacogdoches, TX 75963-1375
 (936) 653-3249 • (800) 525-0508 (936) 569-8879 • FAX (936) 569-8951
 www.eastexlabs.com

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

REPORT TO: Christie Taylor

INVOICE TO: Christie Taylor

Remarks:

Company: Agrilife Extension

Company: Agrilife Extension

ANALYSIS REQUESTED

Address: 1335 Regents Park Dr 2100

Address: 1335 Regents Park Dr 2100

Attn: Christie Taylor

Attn: Christie Taylor

Phone#: 979-399-4009

Phone#: 979-399-4009

Email: ctaylor@tamu.edu

P.O. #: _____

Sampler's Name (print): Christie Taylor

Sampler's Signature: Christie Taylor

Project Name: Stormwater Sampling

Work Order ID: CG5177

Sample ID: 301-4PWB

Date: 6/22

Time: 12:15

Matrix: W

C or G: C

DO: 6.9

pH: 8.51

CI2: -

Flow: -

Temp: 25.3

#: 1

Size: 4

Type: P

Pres: CG

Received By: Christie Taylor

Received Date: 6-23-08

Received Time: 10:30

TSS	X
NO ₂ + NO ₃	
NH ₃ N	X
RCRA metals	X
Total phosphate	X
E coli	X
TPH	

Chain of Custody Revision 3: 05/01/18

Eastex Environmental Laboratory, Inc.

*Thermometer has 0.0 factor and recorded temperature is actual temperature

Work Order ID	Sample ID	Date	Time	Matrix	C or G	DO	pH	CI2	Flow	Temp	#	Size	Type	Pres	Containers
CG5177	301-4PWB	6/22	12:15	W	C	6.9	8.51	-	-	25.3	1	4	P	CG	X
											1	4	P	CG	X
											1	4	P	CG	X
											1	5	P	C/N	X
											1	6	P/S	C/ST	X
											2	8	G/S	H/D	X

Received Iced: YES / NO
 Received Date: 6/23/08
 Received Time: 10:30

Received Iced: YES / NO
 Received Date: 6/23/08
 Received Time: 10:30

Received Iced: YES / NO
 Received Date: 6/23/08
 Received Time: 10:30