



P.O. Box 1089 Coldspring Tx 77331
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June 11, 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 05/16/20 12:45, with Lab ID Number C0E3378. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in cursive script that reads "Mark Bourgeois". The signature is written in black ink and is positioned above a horizontal line.

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: 05/15/2020 20:42
 Collector: CT
 Sample Type: Grab
 Print Date: 6/11/2020

**PTWB 302-3
 C0E3378-01 (Water)**

Analyte	Result	Reporting Limit	Units	Nelac Status	Batch	Analyzed Date & Time	Method	Notes
<u>Metals</u>								
Arsenic, Total	0.00133	0.000500	mg/L	A	B0E2092	05/18/2020 22:42	EPA 200.8	
Barium, Total	0.0239	0.00300	mg/L	A	B0E2092	05/18/2020 22:42	EPA 200.8	
Cadmium, Total	<0.00100	0.00100	mg/L	A	B0E2092	05/18/2020 22:42	EPA 200.8	
Chromium, Total	0.00482	0.00300	mg/L	A	B0E2092	05/18/2020 22:42	EPA 200.8	
Lead, Total	0.000774	0.000500	mg/L	A	B0E2092	05/18/2020 22:42	EPA 200.8	
Mercury, Total	<0.000200	0.000200	mg/L	A	B0E2630	05/21/2020 16:26	EPA 245.1	
Selenium, Total	<0.00500	0.00500	mg/L	A	B0E2429	05/20/2020 17:14	EPA 200.8	
Silver, Total	<0.000500	0.000500	mg/L	A	B0E2092	05/18/2020 22:42	EPA 200.8	
Total Phosphorus	<0.0600	0.0600	mg/L	A	B0F0158	06/10/2020 11:17	EPA 200.7	

Microbiological Lab

E coli IDEXX	4840	2	mpn/100ml	A	B0E2117	05/16/2020 13:07	Colilert 18	
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Organics

<u>TPH TX 1005</u>								
TPH (>C6 - C12)	<2.00	2.00	mg/L	A	B0E1922	05/20/2020 16:28	TX 1005	
TPH (>C12 - C28)	<2.00	2.00	mg/L	A	B0E1922	05/20/2020 16:28	TX 1005	
TPH (>C28 - C35)	<5.00	5.00	mg/L	A	B0E1922	05/20/2020 16:28	TX 1005	
Total TPH (>C6-C35)	<5.00	5.00	mg/L		B0E1922	05/20/2020 16:28	TX 1005	
Surrogate: 1-Chlorooctane			122 %		70-130	B0E1922	05/20/2020 16:28	TX 1005
Surrogate: o-Terphenyl			120 %		70-130	B0E1922	05/20/2020 16:28	TX 1005

Wet Lab

Ammonia as N	<0.1	0.1	mg/L	A	B0E2097	05/18/2020 16:10	SM 4500 NH3 G	
Nitrate+Nitrite as N	0.11	0.02	mg/L	A	B0E3190	05/27/2020 16:30	SM 4500 NO3 F	
TSS	4.5	1.0	mg/L	A	B0E2238	05/19/2020 17:21	SM 2540 D	



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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 B0E1922 - No Prep- Organic

Blank (B0E1922-BLK1)				Prepared & Analyzed: 5/15/2020 4:40:00PM						
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	37.6		mg/L	33.3		113	70-130			
Surrogate: o-Terphenyl	38.6		mg/L	33.3		116	70-130			

LCS (B0E1922-BS1)				Prepared & Analyzed: 5/15/2020 6:09:00PM						
TPH (>C6 - C12)	34.1	2.00	mg/L	33.3		102	70-130			
TPH (>C12 - C28)	33.3	2.00	mg/L	33.3		99.9	70-130			
TPH (>C28 - C35)	63.3	5.00	mg/L	66.7		94.9	70-130			
Surrogate: 1-Chlorooctane	39.3		mg/L	33.3		118	70-130			
Surrogate: o-Terphenyl	38.2		mg/L	33.3		115	70-130			

Matrix Spike (B0E1922-MS1)				Source: C0E1503-01		Prepared & Analyzed: 5/15/2020 6:54:00PM				
TPH (>C6 - C12)	33.8	2.00	mg/L	33.3	ND	101	70-130			
TPH (>C12 - C28)	32.5	2.00	mg/L	33.3	ND	97.4	70-130			
TPH (>C28 - C35)	61.9	5.00	mg/L	66.7	ND	92.9	70-130			
Surrogate: 1-Chlorooctane	39.5		mg/L	33.3		118	70-130			
Surrogate: o-Terphenyl	37.8		mg/L	33.3		113	70-130			

Matrix Spike Dup (B0E1922-MSD1)				Source: C0E1503-01		Prepared & Analyzed: 5/15/2020 7:38:00PM				
TPH (>C6 - C12)	33.7	2.00	mg/L	33.3	ND	101	70-130	0.183	25	
TPH (>C12 - C28)	32.0	2.00	mg/L	33.3	ND	96.0	70-130	1.46	25	
TPH (>C28 - C35)	61.0	5.00	mg/L	66.7	ND	91.5	70-130	1.55	25	
Surrogate: 1-Chlorooctane	38.8		mg/L	33.3		117	70-130			
Surrogate: o-Terphenyl	37.0		mg/L	33.3		111	70-130			

Batch B0E2092 - EPA 200.8

Blank (B0E2092-BLK1)				Prepared & Analyzed: 5/18/2020 4:21:04PM						
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							
Silver, Total	ND	0.000500	mg/L							

Eastex Environmental Laboratory - Coldspring
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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 B0E2092 - EPA 200.8

Blank (B0E2092-BLK1)

Prepared & Analyzed: 5/18/2020 4:21:04PM

LCS (B0E2092-BS1)

Prepared & Analyzed: 5/18/2020 4:26:15PM

Arsenic, Total	0.109	0.000500	mg/L	0.100		109	85-115			
Barium, Total	0.101	0.00300	mg/L	0.100		101	85-115			
Cadmium, Total	0.108	0.00100	mg/L	0.100		108	85-115			
Chromium, Total	0.109	0.00300	mg/L	0.100		109	85-115			
Lead, Total	0.102	0.000500	mg/L	0.100		102	85-115			
Silver, Total	0.104	0.000500	mg/L	0.100		104	85-115			

Matrix Spike (B0E2092-MS1)

Source: C0E2398-01

Prepared & Analyzed: 5/18/2020 4:41:37PM

Arsenic, Total	0.110	0.000500	mg/L	0.100	0.00251	107	70-130			
Barium, Total	0.135	0.00300	mg/L	0.100	0.0469	87.7	70-130			
Cadmium, Total	0.104	0.00100	mg/L	0.100	ND	104	70-130			
Chromium, Total	0.110	0.00300	mg/L	0.100	ND	110	70-130			
Lead, Total	0.0967	0.000500	mg/L	0.100	ND	96.7	70-130			
Silver, Total	0.0983	0.000500	mg/L	0.100	ND	98.3	70-130			

Matrix Spike Dup (B0E2092-MSD1)

Source: C0E2398-01

Prepared & Analyzed: 5/18/2020 4:46:41PM

Arsenic, Total	0.111	0.000500	mg/L	0.100	0.00251	108	70-130	0.760	20	
Barium, Total	0.141	0.00300	mg/L	0.100	0.0469	94.3	70-130	4.78	20	
Cadmium, Total	0.105	0.00100	mg/L	0.100	ND	105	70-130	0.810	20	
Chromium, Total	0.107	0.00300	mg/L	0.100	ND	107	70-130	2.82	20	
Lead, Total	0.101	0.000500	mg/L	0.100	ND	101	70-130	4.18	20	
Silver, Total	0.0975	0.000500	mg/L	0.100	ND	97.5	70-130	0.874	20	

Batch B0E2097 - No Prep

Blank (B0E2097-BLK1)

Prepared & Analyzed: 5/18/2020 3:49:00PM

Ammonia as N	ND	0.1	mg/L							
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LCS (B0E2097-BS1)

Prepared & Analyzed: 5/18/2020 3:47:00PM

Ammonia as N	2.08		mg/L	2.00		104	90-110			
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Matrix Spike (B0E2097-MS1)

Source: C0E3128-01

Prepared & Analyzed: 5/18/2020 3:51:00PM

Ammonia as N	2.0	0.1	mg/L	2.50	ND	80.0	80-120			
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Matrix Spike Dup (B0E2097-MSD1)

Source: C0E3128-01

Prepared & Analyzed: 5/18/2020 3:53:00PM

Ammonia as N	1.9	0.1	mg/L	2.50	ND	76.0	80-120	5.13	20	
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Colilert 18 - Quality Control
Eastex Environmental Laboratory - Coldspring

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B0E2117 - No Prep Micro										
Blank (B0E2117-BLK1)					Prepared & Analyzed: 5/16/2020 1:07:00PM					
E coli IDEXX	ND	1	mpn/100ml							
Duplicate (B0E2117-DUP1)					Source: C0E3222-01 Prepared & Analyzed: 5/16/2020 1:07:00PM					
E coli IDEXX	2	2	mpn/100ml		ND				200	
Batch B0E2238 - No Prep										
Blank (B0E2238-BLK1)					Prepared & Analyzed: 5/19/2020 5:21:00PM					
TSS	ND	1.0	mg/L							
Duplicate (B0E2238-DUP1)					Source: C0E3140-01 Prepared & Analyzed: 5/19/2020 5:21:00PM					
TSS	607	1.0	mg/L		590			2.79	10	
Batch B0E2429 - EPA 200.8										
Blank (B0E2429-BLK1)					Prepared & Analyzed: 5/20/2020 2:45:40PM					
Selenium, Total	ND	0.00500	mg/L							
LCS (B0E2429-BS1)					Prepared & Analyzed: 5/20/2020 2:56:01PM					
Selenium, Total	0.103	0.00500	mg/L	0.100		103	85-115			
Matrix Spike (B0E2429-MS1)					Source: C0E3276-01 Prepared & Analyzed: 5/20/2020 3:11:28PM					
Selenium, Total	0.0918	0.00500	mg/L	0.100	ND	91.8	70-130			
Matrix Spike Dup (B0E2429-MSD1)					Source: C0E3276-01 Prepared & Analyzed: 5/20/2020 3:16:35PM					
Selenium, Total	0.0955	0.00500	mg/L	0.100	ND	95.5	70-130	3.93	20	
Batch B0E2630 - EPA 245.1										
Blank (B0E2630-BLK1)					Prepared & Analyzed: 5/21/2020 4:00:00PM					
Mercury, Total	ND	0.000200	mg/L							
LCS (B0E2630-BS1)					Prepared & Analyzed: 5/21/2020 4:04:02PM					
Mercury, Total	0.00271	0.000200	mg/L	0.00250		108	75-115			
Matrix Spike (B0E2630-MS1)					Source: C0E3805-01 Prepared & Analyzed: 5/21/2020 4:10:06PM					
Mercury, Total	0.00279	0.000200	mg/L	0.00250	0.000192	104	70-130			
Matrix Spike Dup (B0E2630-MSD1)					Source: C0E3805-01 Prepared & Analyzed: 5/21/2020 4:12:07PM					
Mercury, Total	0.00273	0.000200	mg/L	0.00250	0.000192	102	70-130	2.17	20	

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
Batch B0E3190 - No Prep										
Blank (B0E3190-BLK1)				Prepared & Analyzed: 5/27/2020 4:30:00PM						
Nitrate+Nitrite as N	ND	0.02	mg/L							
LCS (B0E3190-BS1)				Prepared & Analyzed: 5/27/2020 4:30:00PM						
Nitrate+Nitrite as N	0.980		mg/L	1.00		98.0	90-110			
Matrix Spike (B0E3190-MS1)				Source: C0E2505-01 Prepared & Analyzed: 5/27/2020 4:30:00PM						
Nitrate+Nitrite as N	1.26	0.02	mg/L	1.00	0.110	115	80-120			
Matrix Spike Dup (B0E3190-MSD1)				Source: C0E2505-01 Prepared & Analyzed: 5/27/2020 4:30:00PM						
Nitrate+Nitrite as N	1.07	0.02	mg/L	1.00	0.110	96.0	80-120	16.3	20	
Batch B0F0158 - EPA 200.7										
Blank (B0F0158-BLK1)				Prepared & Analyzed: 6/10/2020 11:03:10AM						
Total Phosphorus	ND	0.0600	mg/L							
Blank (B0F0158-BLK2)				Prepared & Analyzed: 6/10/2020 12:08:01PM						
Total Phosphorus	ND	0.0600	mg/L							
Blank (B0F0158-BLK3)				Prepared & Analyzed: 6/10/2020 1:10:30PM						
Total Phosphorus	ND	0.0600	mg/L							
LCS (B0F0158-BS1)				Prepared & Analyzed: 6/10/2020 11:06:37AM						
Total Phosphorus	2.22	0.0600	mg/L	2.52		88.2	85-115			
LCS (B0F0158-BS2)				Prepared & Analyzed: 6/10/2020 12:14:58PM						
Total Phosphorus	2.28	0.0600	mg/L	2.52		90.3	85-115			
LCS (B0F0158-BS3)				Prepared & Analyzed: 6/10/2020 1:13:59PM						
Total Phosphorus	2.32	0.0600	mg/L	2.52		92.0	85-115			
MRL Check (B0F0158-MRL1)				Prepared & Analyzed: 6/10/2020 10:59:43AM						
Total Phosphorus	0.0593		mg/L	0.0600		98.8	0-200			
Matrix Spike (B0F0158-MS1)				Source: C0E3378-01 Prepared & Analyzed: 6/10/2020 11:24:09AM						
Total Phosphorus	2.20	0.0600	mg/L	2.52	0.0141	86.7	70-130			
Matrix Spike (B0F0158-MS2)				Source: C0E4416-01 Prepared & Analyzed: 6/10/2020 12:28:49PM						
Total Phosphorus	2.23	0.0600	mg/L	2.52	0.0889	85.1	70-130			
Matrix Spike (B0F0158-MS3)				Source: C0E5164-08 Prepared & Analyzed: 6/10/2020 2:46:12PM						

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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
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Batch B0F0158 - EPA 200.7

Matrix Spike (B0F0158-MS3)

Source: C0E5164-08

Prepared & Analyzed: 6/10/2020 2:46:12PM

Total Phosphorus	3.08	0.0600	mg/L	2.52	0.355	108	70-130			
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Houston TX, 77058

Notes and Definitions

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

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

REPORT TO: Christie Taylor

INVOICE TO: Christie Taylor

Company: TCWP Agrilife Extension
 Address: 1335 Regents Park Dr 2100
 Houston TX 77058

Company: TCWP Agrilife Extension
 Address: 1335 Regents Park Dr 2100
 Houston TX 77058

Attn: Christie Taylor
 Phone#: 979-399-4009
 Email: ctaylor@tamv.edu

Attn: Christie Taylor
 Phone#: 979-399-4009
 INSTRUCTIONS:

P.O. #: _____
 Sampler's Name (print):
 Christie Taylor

C or G: C=Composite G=Grab
 Matrix: DW=Drinking Water WW=Wastewater SO=Soil/Sludge OT=Other
 Container Size: 1=Gallon 2=1/2 Gallon 3=Quart/Liter 4=500ml 5=250ml
 6=125ml (4oz) 7=60ml (2 oz) 8=40ml Vial 9=Other
 Type: P=Plastic G=Glass T=Teflon S=Sterile
 Preservatives: C=Chilled S=Sulfuric Acid N=Nitric Acid B=Base/Caustic Z=Zn Acetate
 ST=Sodium Thiosulfate H=HCL O=Other

Project Name:
 TCWP Streamwater Sampling

Work Order ID	Sample ID	Date	Time	Matrix	C or G	DO	pH	CI2	Flow	Temp	#	Size	Type	Pres
3378	DW13 302-3	9/19/00	20:40	N	C	8.2	8.83	-	-	25.1	1	3	P	C
											1	4	P	C/N
											2	5	P	C/N
											2	5	P	C/S
											1	6	P/S	C/ST
											3	8	C/S	PHU

Field Data

Containers

ANALYSIS REQUESTED					
TSS					
RCRA metal					
Total phosphate					
NO2 + NO3					
NH3N					
E. coli					
TPH					

Relinquished By: Christie Taylor
 Received By: Julie Sta

Received By: Julie Sta
 Received Date: 5/16/00
 Received Time: 9:10

Received Date: 5-18-00
 Received Time: 7:22

LAB USE ONLY
 Sample Condition Acceptable: YES / NO
 Date: 5/16/00 Time: 19:45
 Temp C: 20 Therm ID: 15
 Logged In By: [Signature]
 Date: 5-18-00 Time: 7:22