



P.O. Box 1089 Coldspring Tx 77331
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November 18, 2019

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 11/08/19 14:30, with Lab ID Number C9K1867. 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".

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: 11/07/2019 17:56
 Collector: CT
 Sample Type: Grab
 Print Date: 11/18/2019

UTRP 101-2 C9K1867-01 (Water)

Analyte	Result	Reporting Limit	Units	Nelac Status	Batch	Analyzed Date & Time	Method	Notes
<u>Metals</u>								
Arsenic, Total	<0.000500	0.000500	mg/L	A	B9K1126	11/12/2019 16:54	EPA 200.8	
Barium, Total	0.0136	0.00300	mg/L	A	B9K1126	11/12/2019 16:54	EPA 200.8	
Cadmium, Total	<0.00100	0.00100	mg/L	A	B9K1126	11/12/2019 16:54	EPA 200.8	
Chromium, Total	<0.00300	0.00300	mg/L	A	B9K1126	11/12/2019 16:54	EPA 200.8	
Lead, Total	0.00142	0.000500	mg/L	A	B9K1126	11/12/2019 16:54	EPA 200.8	
Mercury, Total	<0.000200	0.000200	mg/L	A	B9K1848	11/15/2019 14:06	EPA 245.1	
Selenium, Total	<0.00500	0.00500	mg/L	A	B9K1126	11/12/2019 16:54	EPA 200.8	
Silver, Total	<0.000500	0.000500	mg/L	A	B9K1126	11/12/2019 16:54	EPA 200.8	
Total Phosphorus	<0.0200	0.0200	mg/L	A	B9K1843	11/15/2019 09:16	EPA 200.7	

Microbiological Lab

E coli IDEXX	31	10	mpn/100ml	A	B9K1184	11/08/2019 15:45	Colilert 18	
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Organics

TPH TX 1005

TPH (>C6 - C12)	<1.98	1.98	mg/L	A	B9K1339	11/12/2019 16:52	TX 1005	
TPH (>C12 - C28)	<1.98	1.98	mg/L	A	B9K1339	11/12/2019 16:52	TX 1005	23
TPH (>C28 - C35)	<4.95	4.95	mg/L	A	B9K1339	11/12/2019 16:52	TX 1005	23
Total TPH (>C6-C35)	<4.95	4.95	mg/L		B9K1339	11/12/2019 15:34	TX 1005	
Surrogate: 1-Chlorooctane			96.7 %	70-130	B9K1339	11/12/2019 16:52	TX 1005	
Surrogate: o-Terphenyl			91.9 %	70-130	B9K1339	11/12/2019 16:52	TX 1005	

Wet Lab

Ammonia as N	<0.1	0.1	mg/L	A	B9K1169	11/12/2019 07:50	SM 4500 NH3 G	
Nitrate+Nitrite as N	0.24	0.02	mg/L	A	B9K1211	11/12/2019 09:00	SM 4500 NO3 F	
TSS	1.8	1.0	mg/L	A	B9K1141	11/11/2019 10:12	SM 2540 D	25

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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 B9K1126 - EPA 200.8

Blank (B9K1126-BLK1)

Prepared & Analyzed: 11/12/2019 11:14:50AM

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 (B9K1126-BS1)

Prepared & Analyzed: 11/12/2019 11:20:01AM

Arsenic, Total	0.0975	0.000500	mg/L	0.100		97.5	85-115			
Barium, Total	0.0966	0.00300	mg/L	0.100		96.6	85-115			
Cadmium, Total	0.0977	0.00100	mg/L	0.100		97.7	85-115			
Chromium, Total	0.0970	0.00300	mg/L	0.100		97.0	85-115			
Lead, Total	0.0970	0.000500	mg/L	0.100		97.0	85-115			
Selenium, Total	0.0921	0.00500	mg/L	0.100		92.1	85-115			
Silver, Total	0.0981	0.000500	mg/L	0.100		98.1	85-115			

Matrix Spike (B9K1126-MS1)

Source: C9K0707-01

Prepared & Analyzed: 11/12/2019 11:35:27AM

Arsenic, Total	0.104	0.000500	mg/L	0.100	0.00138	103	70-130			
Barium, Total	0.159	0.00300	mg/L	0.100	0.0574	102	70-130			
Cadmium, Total	0.101	0.00100	mg/L	0.100	0.00174	99.8	70-130			
Chromium, Total	0.100	0.00300	mg/L	0.100	ND	100	70-130			
Lead, Total	0.118	0.000500	mg/L	0.100	0.0161	102	70-130			
Selenium, Total	0.106	0.00500	mg/L	0.100	ND	106	70-130			
Silver, Total	0.0997	0.000500	mg/L	0.100	ND	99.7	70-130			

Matrix Spike Dup (B9K1126-MSD1)

Source: C9K0707-01

Prepared & Analyzed: 11/12/2019 11:40:33AM

Arsenic, Total	0.101	0.000500	mg/L	0.100	0.00138	100	70-130	2.43	20	
Barium, Total	0.159	0.00300	mg/L	0.100	0.0574	102	70-130	0.00214	20	
Cadmium, Total	0.101	0.00100	mg/L	0.100	0.00174	99.3	70-130	0.476	20	
Chromium, Total	0.0977	0.00300	mg/L	0.100	ND	97.7	70-130	2.37	20	
Lead, Total	0.114	0.000500	mg/L	0.100	0.0161	98.3	70-130	3.07	20	
Selenium, Total	0.0970	0.00500	mg/L	0.100	ND	97.0	70-130	8.86	20	
Silver, Total	0.0984	0.000500	mg/L	0.100	ND	98.4	70-130	1.33	20	

Batch B9K1141 - No Prep

Blank (B9K1141-BLK1)

Prepared & Analyzed: 11/11/2019 10:12:00AM

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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
Batch B9K1141 - No Prep										
Blank (B9K1141-BLK1)					Prepared & Analyzed: 11/11/2019 10:12:00AM					
TSS	ND	1.0	mg/L							
Duplicate (B9K1141-DUP1)					Source: C9K1603-01 Prepared & Analyzed: 11/11/2019 10:12:00AM					
TSS	218	1.0	mg/L		228			4.48	10	
Batch B9K1169 - No Prep										
Blank (B9K1169-BLK1)					Prepared & Analyzed: 11/12/2019 7:37:00AM					
Ammonia as N	ND	0.1	mg/L							
LCS (B9K1169-BS1)					Prepared & Analyzed: 11/12/2019 8:35:00AM					
Ammonia as N	2.00		mg/L	2.00		100	90-110			
LCS Dup (B9K1169-BSD1)					Prepared & Analyzed: 11/12/2019 8:33:00AM					
Ammonia as N	1.90		mg/L	2.00		95.0	90-110	5.13	20	
MRL Check (B9K1169-MRL1)					Prepared & Analyzed: 11/12/2019 7:39:00AM					
Ammonia as N	0.110		mg/L	0.100		110	0-200			
Matrix Spike (B9K1169-MS1)					Source: C9K1493-01 Prepared & Analyzed: 11/12/2019 7:41:00AM					
Ammonia as N	3.0	0.1	mg/L	2.50	0.2	111	80-120			
Batch B9K1184 - No Prep Micro										
Blank (B9K1184-BLK1)					Prepared & Analyzed: 11/8/2019 3:45:00PM					
E coli IDEXX	ND		1 mpn/100ml							
Duplicate (B9K1184-DUP1)					Source: C9K1648-01 Prepared & Analyzed: 11/8/2019 3:45:00PM					
E coli IDEXX	4		2 mpn/100ml		6			43.1	200	
Batch B9K1211 - No Prep										
Blank (B9K1211-BLK1)					Prepared & Analyzed: 11/12/2019 9:00:00AM					
Nitrate+Nitrite as N	ND	0.02	mg/L							
LCS (B9K1211-BS1)					Prepared & Analyzed: 11/12/2019 9:00:00AM					
Nitrate+Nitrite as N	0.910		mg/L	1.00		91.0	90-110			
LCS Dup (B9K1211-BSD1)					Prepared & Analyzed: 11/12/2019 9:00:00AM					
Nitrate+Nitrite as N	0.910		mg/L	1.00		91.0	90-110	0.00	20	

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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 B9K1211 - No Prep										
MRL Check (B9K1211-MRL1)				Prepared & Analyzed: 11/12/2019 9:00:00AM						
Nitrate+Nitrite as N	0.0200		mg/L	0.0200		100	0-200			
Matrix Spike (B9K1211-MS1)				Source: C9K1493-01 Prepared & Analyzed: 11/12/2019 9:00:00AM						
Nitrate+Nitrite as N	1.03	0.02	mg/L	1.00	ND	103	80-120			
Batch B9K1339 - No Prep- Organic										
Blank (B9K1339-BLK1)				Prepared & Analyzed: 11/12/2019 2:38:00PM						
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	30.2		mg/L	33.3		90.5	70-130			
Surrogate: o-Teiphenyl	29.4		mg/L	33.3		88.3	70-130			
LCS (B9K1339-BS1)				Prepared & Analyzed: 11/12/2019 3:23:00PM						
TPH (>C6 - C12)	31.0	2.00	mg/L	33.3		92.9	70-130			
TPH (>C12 - C28)	33.8	2.00	mg/L	33.3		101	70-130			
TPH (>C28 - C35)	80.2	5.00	mg/L	66.7		120	70-130			
Surrogate: 1-Chlorooctane	34.4		mg/L	33.3		103	70-130			
Surrogate: o-Teiphenyl	32.0		mg/L	33.3		95.9	70-130			
Matrix Spike (B9K1339-MS1)				Source: C9K2263-01 Prepared & Analyzed: 11/12/2019 6:22:00PM						
TPH (>C6 - C12)	26.4	1.97	mg/L	32.8	ND	80.7	70-130			
TPH (>C12 - C28)	25.0	1.97	mg/L	32.8	4.53	62.4	70-130			23
TPH (>C28 - C35)	47.5	4.92	mg/L	65.6	ND	72.5	70-130			
Surrogate: 1-Chlorooctane	29.5		mg/L	32.8		90.1	70-130			
Surrogate: o-Teiphenyl	27.1		mg/L	32.8		82.7	70-130			
Matrix Spike Dup (B9K1339-MSD1)				Source: C9K2263-01 Prepared & Analyzed: 11/12/2019 7:06:00PM						
TPH (>C6 - C12)	27.5	1.99	mg/L	33.1	ND	83.0	70-130	3.78	25	
TPH (>C12 - C28)	25.0	1.99	mg/L	33.1	4.53	61.7	70-130	0.0802	25	23
TPH (>C28 - C35)	45.0	4.97	mg/L	66.2	ND	67.9	70-130	5.57	25	23
Surrogate: 1-Chlorooctane	30.7		mg/L	33.1		92.6	70-130			
Surrogate: o-Teiphenyl	28.2		mg/L	33.1		85.0	70-130			

Batch B9K1843 - EPA 200.7

Eastex Environmental Laboratory - Coldspring

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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
Batch B9K1843 - EPA 200.7										
Blank (B9K1843-BLK1)				Prepared & Analyzed: 11/15/2019 9:03:05AM						
Total Phosphorus	ND	0.0200	mg/L							
LCS (B9K1843-BS1)				Prepared & Analyzed: 11/15/2019 9:07:34AM						
Total Phosphorus	2.15	0.0200	mg/L	2.52		85.3	85-115			
LCS Dup (B9K1843-BSD1)				Prepared & Analyzed: 11/15/2019 9:12:02AM						
Total Phosphorus	2.14	0.0200	mg/L	2.52		85.0	85-115	0.401	20	
MRL Check (B9K1843-MRL1)				Prepared & Analyzed: 11/15/2019 8:58:36AM						
Total Phosphorus	0.0495		mg/L	0.0600		82.5	0-200			
Matrix Spike (B9K1843-MS1)		Source: C9K1867-01		Prepared & Analyzed: 11/15/2019 9:21:17AM						
Total Phosphorus	2.40	0.0200	mg/L	2.52	0.0195	94.3	70-130			
Batch B9K1848 - EPA 245.1										
Blank (B9K1848-BLK1)				Prepared & Analyzed: 11/15/2019 1:15:37PM						
Mercury, Total	ND	0.000200	mg/L							
LCS (B9K1848-BS1)				Prepared & Analyzed: 11/15/2019 1:19:39PM						
Mercury, Total	0.00245	0.000200	mg/L	0.00250		98.0	80-120			
Matrix Spike (B9K1848-MS1)		Source: C9K2183-01		Prepared & Analyzed: 11/15/2019 1:27:43PM						
Mercury, Total	0.00291	0.000200	mg/L	0.00250	0.000100	112	80-120			
Matrix Spike Dup (B9K1848-MSD1)		Source: C9K2183-01		Prepared & Analyzed: 11/15/2019 1:29:44PM						
Mercury, Total	0.00305	0.000200	mg/L	0.00250	0.000100	118	80-120	4.70	20	



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Notes and Definitions

- 25 Residue not in the method range of 2.5-200 mg.
- 23 Spike recovery outside of acceptance limits due to matrix interference.
- 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

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

www.eastexlabs.com

REPORT TO: Christie Taylor
Company: TOMP Agglik Ext.
Address: 1335 Regents Park St 2nd Houston TX 77058
Attn: Christie Taylor
Phone#: 979-399-4009
Email: ctaylor@tamu.edu
P.O. #:

Company: TOMP Agglik Ext.
Address: 1335 Regents Park St 200 Houston TX 77058
Attn: Christie Taylor
Phone#: 979-399-4009

INSTRUCTIONS:
 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 Q=Other

Sampler's Name (print): Christie Taylor
Sampler's Signature: Christie Taylor
Project Name: TOMP stormwater sampling

Work Order ID	Sample ID	Date	Field Data			Containers							
			Time	Matrix	C or G	DO	pH	CI2	Flow	Temp	#	Size	Type
C9K1807	UTRP101-2	7/7/17	17:56	OT	C	9.6	10.48	55.3	19.5	1	3	P	C
										1	5	P/S	C/SA
										1	6	P	C/ST
										1	4	P	C/SA
										1	4	P	C/SA
										1	4	P	C/N
										3	8	G/S	PA/C

Relinquished By: Christie Taylor
Received By: Julie Dr
 Date: 11-8-19
 Time: 12:16 (14)
 Received Iced: YES / NO

Relinquished By: Julie Dr
Received By: Julie Dr
 Date: 11-8-19
 Time: 14:30
 Received Iced: YES / NO

Relinquished By: Julie Dr
Received By: Julie Dr
 Date: 11-8-19
 Time: 14:30
 Received Iced: YES / NO

LAB USE ONLY
 Sample Condition Acceptable: YES / NO
 Alternate Check In: Date: 11/8/19 Time: 15:19

ANALYSIS REQUESTED	Result
TSS	X
Total Phosphate	X
E. coli	X
NO2 + NO3	X
NH4N	X
RCRA metals	X
TRH	X

Chain of Custody Revision 3: 05/01/18
 Eastex Environmental Laboratory, Inc.
 *Thermometer has 0.0 factor and recorded temperature is actual temperature