PHOENIX
Environmental Laboratories, Inc.

Wednesday, April 17, 2019

Attn: Jennifer Atkins
AECOM
250 Apollo Drive
Chelmsford, MA 01824

Project ID: GULF CHELSEA TERMINAL/ 60597375-0500
SDG ID: GCC79447
Sample ID#s: CC79447 - CC79448

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

Phyllis Shiller
Laboratory Director

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone (860) 645-1102 Fax (860) 645-0823

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

SDG Comments

April 17, 2019

SDG I.D.: GCC79447

Sample CC79447 was received past hold time for Fecal Coliforms (SW9222D).

Version 3:
Report Revision Narrative:
This report has been revised to modify the analyte list and reporting limits per project requirements.

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Sample Id Cross Reference

April 17, 2019

SDG I.D.: GCC79447

Project ID: GULF CHELSEA TERMINAL/ 60597375-0500

Client Id	Lab Id	Matrix
OUTFALL 003	CC79447	SURFACE WATER
CHELSEA CREEK	CC79448	SURFACE WATER

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Analysis Report

April 17, 2019

FOR: Attn: Jennifer Atkins
AECOM
250 Apollo Drive
Chelmsford, MA 01824

Sample Information		Custody Information		Date	Time
Matrix:	SURFACE WATER	Collected by:		04/01/19	14:35
Location Code:	AECOM-CHELM	Received by:	CP	04/02/19	14:46
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCC79447
Phoenix ID: CC79447

Project ID: GULF CHELSEA TERMINAL/ 60597375-0500
Client ID: OUTFALL 003

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Chromium	< 0.001	0.001		mg/L	1	04/04/19	EK	SW6010D
Fecal Coliforms	20	10		/100 mls	10	04/02/19 16:40	MLT/MLT	SW9222D-06
B.O.D./5 day	< 4.0	4.0		mg/L	2	04/02/19 14:46	RVM/RM	SM5210B-11
B.O.D./5 day End Incubation						04/07/19 13:22	RVM/RM	SM5210B-11
C.O.D.	19	10		mg/L	1	04/05/19	DA	SM5220D-11
Ammonia as Nitrogen	< 0.05	0.05		mg/L	1	04/04/19	KDB	E350.1
Nitrite-N	< 0.010	0.010		mg/L	1	04/02/19 18:47	TB	E353.2
Nitrate-N	0.15	0.02		mg/L	1	04/02/19 18:47	TB	E353.2
Oil and Grease by EPA 1664A	< 1.4	1.4		mg/L	1	04/05/19	MSF	E1664A
pH	7.87	1.00		pH Units	1	04/03/19 15:31	RWR	SM4500-H B-11
Nitrogen Tot Kjeldahl	0.38	0.10		mg/L	1	04/04/19	KDB	E351.1
Total Nitrogen	0.53	0.10		mg/L	1	04/04/19	KDB	SM4500NH3/E300.0-97
Phosphorus, as P	0.033	0.010		mg/L	1	04/03/19	JR	SM4500PE-11
Total Suspended Solids	< 5.0	5.0		mg/L	1	04/03/19	MM/DA	SM2540D-11
Semi-Volatile Extraction	Completed					04/02/19	P/D/D	E625.1
Total Metals Digestion	Completed					04/03/19	AG	

Volatiles

Benzene	ND	0.50	0.25	ug/L	1	04/02/19	MH	E624.1
Ethylbenzene	ND	0.50	0.25	ug/L	1	04/02/19	MH	E624.1
m&p-Xylene	ND	0.50	0.25	ug/L	1	04/02/19	MH	E624.1
Methyl tert-butyl ether (MTBE)	ND	1.0	0.25	ug/L	1	04/02/19	MH	E624.1
Naphthalene	ND	1.0	1.0	ug/L	1	04/02/19	MH	E624.1
o-Xylenes	ND	0.50	0.25	ug/L	1	04/02/19	MH	E624.1
Toluene	ND	1.0	0.25	ug/L	1	04/02/19	MH	E624.1
Vinyl chloride	ND	0.50	0.25	ug/L	1	04/02/19	MH	E624.1
Xylenes, Total	ND	0.50	0.50	ug/L	1	04/02/19	MH	E624.1

QA/QC Surrogates

Project ID: GULF CHELSEA TERMINAL/ 60597375-0500
Client ID: OUTFALL 003

Phoenix I.D.: CC79447

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% 1,2-dichlorobenzene-d4	100			%	1	04/02/19	MH	70 - 130 %
% Bromofluorobenzene	93			%	1	04/02/19	MH	70 - 130 %
% Dibromofluoromethane	101			%	1	04/02/19	MH	70 - 130 %
% Toluene-d8	99			%	1	04/02/19	MH	70 - 130 %
Ethanol	ND	400		ug/L	1	04/02/19	MH	E624.1
Tert-butyl alcohol	ND	10		ug/L	1	04/02/19	MH	E624.1
Semivolatiles, PAH's								
Acenaphthene	ND	0.09		ug/L	1	04/04/19	PS	E625.1 SIM
Acenaphthylene	ND	0.09		ug/L	1	04/04/19	PS	E625.1 SIM
Anthracene	ND	0.09		ug/L	1	04/04/19	PS	E625.1 SIM
Benz(a)anthracene	ND	0.09		ug/L	1	04/04/19	PS	E625.1 SIM
Benzo(a)pyrene	ND	0.09		ug/L	1	04/04/19	PS	E625.1 SIM
Benzo(b)fluoranthene	ND	0.09		ug/L	1	04/04/19	PS	E625.1 SIM
Benzo(ghi)perylene	ND	0.09		ug/L	1	04/04/19	PS	E625.1 SIM
Benzo(k)fluoranthene	ND	0.09		ug/L	1	04/04/19	PS	E625.1 SIM
Chrysene	ND	0.09		ug/L	1	04/04/19	PS	E625.1 SIM
Dibenz(a,h)anthracene	ND	0.09		ug/L	1	04/04/19	PS	E625.1 SIM
Fluoranthene	ND	0.09		ug/L	1	04/04/19	PS	E625.1 SIM
Fluorene	ND	0.09		ug/L	1	04/04/19	PS	E625.1 SIM
Indeno(1,2,3-cd)pyrene	ND	0.09		ug/L	1	04/04/19	PS	E625.1 SIM
Naphthalene	ND	0.09		ug/L	1	04/04/19	PS	E625.1 SIM
Phenanthrene	ND	0.09		ug/L	1	04/04/19	PS	E625.1 SIM
Pyrene	ND	0.09		ug/L	1	04/04/19	PS	E625.1 SIM
QA/QC Surrogates								
% 2-Fluorobiphenyl	78			%	1	04/04/19	PS	30 - 130 %
% Nitrobenzene-d5	72			%	1	04/04/19	PS	30 - 130 %
% Terphenyl-d14	84			%	1	04/04/19	PS	30 - 130 %
Phenol	ND	4.7		ug/L	1	04/05/19	AW	E625.1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level LOD=Limit of Detection
MDL=Method Detection Limit1
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

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Phyllis Shiller, Laboratory Director
April 17, 2019
Reviewed and Released by: Bobbi Aloisa, Vice President

Environmental Laboratories, Inc.
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Analysis Report

April 17, 2019

FOR: Attn: Jennifer Atkins
AECOM
250 Apollo Drive
Chelmsford, MA 01824

Sample Information		Custody Information		Date	Time
Matrix:	SURFACE WATER	Collected by:		04/01/19	14:25
Location Code:	AECOM-CHELM	Received by:	CP	04/02/19	14:46
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCC79447
Phoenix ID: CC79448

Project ID: GULF CHELSEA TERMINAL/ 60597375-0500
Client ID: CHELSEA CREEK

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Semi-Volatile Extraction	Completed				04/02/19	P/D	SW3520C
Aromatic Volatiles w/Napthalene							
Benzene	ND	1.0	ug/L	1	04/02/19	PS	E624.1
Ethylbenzene	ND	1.0	ug/L	1	04/02/19	PS	E624.1
m&p-Xylene	ND	1.0	ug/L	1	04/02/19	PS	E624.1
Naphthalene	ND	1.0	ug/L	1	04/02/19	PS	E624.1
o-Xylene	ND	1.0	ug/L	1	04/02/19	PS	E624.1
Toluene	ND	1.0	ug/L	1	04/02/19	PS	E624.1
Xylenes, Total	ND	1.0	ug/L	1	04/02/19	PS	E624.1
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	1	04/02/19	PS	70 - 130 %
% Bromofluorobenzene	94		%	1	04/02/19	PS	70 - 130 %
% Dibromofluoromethane	102		%	1	04/02/19	PS	70 - 130 %
% Toluene-d8	100		%	1	04/02/19	PS	70 - 130 %
Semivolatiles, PAH's							
Acenaphthene	ND	0.09	ug/L	1	04/03/19	PS	E625.1 SIM
Acenaphthylene	ND	0.09	ug/L	1	04/03/19	PS	E625.1 SIM
Anthracene	ND	0.09	ug/L	1	04/03/19	PS	E625.1 SIM
Benz(a)anthracene	ND	0.09	ug/L	1	04/03/19	PS	E625.1 SIM
Benzo(a)pyrene	ND	0.09	ug/L	1	04/03/19	PS	E625.1 SIM
Benzo(b)fluoranthene	ND	0.09	ug/L	1	04/03/19	PS	E625.1 SIM
Benzo(ghi)perylene	ND	0.09	ug/L	1	04/03/19	PS	E625.1 SIM
Benzo(k)fluoranthene	ND	0.09	ug/L	1	04/03/19	PS	E625.1 SIM
Chrysene	ND	0.09	ug/L	1	04/03/19	PS	E625.1 SIM
Dibenz(a,h)anthracene	ND	0.09	ug/L	1	04/03/19	PS	E625.1 SIM
Fluoranthene	ND	0.09	ug/L	1	04/03/19	PS	E625.1 SIM

Project ID: GULF CHELSEA TERMINAL/ 60597375-0500
Client ID: CHELSEA CREEK

Phoenix I.D.: CC79448

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Fluorene	ND	0.09	ug/L	1	04/03/19	PS	E625.1 SIM
Indeno(1,2,3-cd)pyrene	ND	0.09	ug/L	1	04/03/19	PS	E625.1 SIM
Naphthalene	ND	0.09	ug/L	1	04/03/19	PS	E625.1 SIM
Phenanthrene	ND	0.09	ug/L	1	04/03/19	PS	E625.1 SIM
Pyrene	ND	0.09	ug/L	1	04/03/19	PS	E625.1 SIM
QA/QC Surrogates							
% 2-Fluorobiphenyl	70		%	1	04/03/19	PS	30 - 130 %
% Nitrobenzene-d5	73		%	1	04/03/19	PS	30 - 130 %
% Terphenyl-d14	67		%	1	04/03/19	PS	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director
April 17, 2019
Reviewed and Released by: Bobbi Aloisa, Vice President

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QA/QC Report

April 17, 2019

QA/QC Data

SDG I.D.: GCC79447

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 472997 (mg/L), QC Sample No: CC79240 (CC79447)													
ICP Metals - Aqueous													
Chromium	BRL	0.001	0.002	0.002	NC	96.7			99.3			75 - 125	20

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QA/QC Report

April 17, 2019

QA/QC Data

SDG I.D.: GCC79447

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 473404 (mg/L), QC Sample No: CC78424 (CC79447)														
Oil and Grease by EPA 1664A	BRL	1.4				99.0	97.0	2.0				85 - 115	20	
Comment:														
A Blank spike was performed instead of a matrix spike														
Additional: MS acceptance range 75-125%.														
QA/QC Batch 472943 (mg/L), QC Sample No: CC79382 (CC79447)														
Phosphorus, as P	BRL	0.01	2.05	2.11	2.90	111			102			85 - 115	20	
Comment:														
Additional: LCS acceptance range is 85-115% MS acceptance range 75-125%.														
QA/QC Batch 472871 (mg/L), QC Sample No: CC79414 (CC79447)														
B.O.D./5 day	BRL	2.0	13	14	7.40	81.3			56.3			70 - 130	20	m
B.O.D./5 day GGA BOD						105						84 - 115	20	
QA/QC Batch 472994 (mg/L), QC Sample No: CC79447 (CC79447)														
Total Suspended Solids	BRL	5.0	<5.0	<5.0	NC	99.0						85 - 115		
QA/QC Batch 473378 (mg/L), QC Sample No: CC79704 (CC79447)														
C.O.D.	BRL	10	<10	<10	NC	103			102			85 - 115	20	
Comment:														
Additional: LCS acceptance range is 85-115% MS acceptance range 75-125%.														
QA/QC Batch 473073 (pH), QC Sample No: CC80038 (CC79447)														
pH			7.69	7.66	0.40	96.4						85 - 115	20	
Comment:														
Additional: LCS acceptance range is 85-115% MS acceptance range 75-125%.														
QA/QC Batch 472901 (mg/L), QC Sample No: CC79333 (CC79447)														
Nitrate-N	BRL	0.02	0.08	0.08	NC	102			97.8			90 - 110	20	
Nitrite-N	BRL	0.01	0.197	0.20	1.50	108			106			90 - 110	20	
QA/QC Batch 472940 (mg/L), QC Sample No: CC79427 (CC79447)														
Ammonia as Nitrogen	BRL	0.05	34.4	34.2	0.60	98.5			101			90 - 110	20	
Nitrogen Tot Kjeldahl	BRL	0.10	47.7	46.9	1.70	98.5			102			85 - 115	20	
Comment:														
TKN is reported as Organic Nitrogen in the Blank, LCS, DUP and MS.														

m = This parameter is outside laboratory MS/MSD specified recovery limits.

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QA/QC Report

April 17, 2019

QA/QC Data

SDG I.D.: GCC79447

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 472860 (ug/L), QC Sample No: CC78847 (CC79447)											
Semivolatiles (SIM) - Surface Water											
Acenaphthene	ND	0.50	112	109	2.7				60 - 132	48	
Acenaphthylene	ND	0.50	107	105	1.9				54 - 126	74	
Anthracene	ND	0.50	123	122	0.8				43 - 120	66	I
Benz(a)anthracene	ND	0.50	110	109	0.9				42 - 133	53	
Benzo(a)pyrene	ND	0.50	116	116	0.0				32 - 148	72	
Benzo(b)fluoranthene	ND	0.50	115	118	2.6				42 - 140	71	
Benzo(ghi)perylene	ND	0.50	108	105	2.8				10 - 195	97	
Benzo(k)fluoranthene	ND	0.50	125	132	5.4				25 - 146	63	
Chrysene	ND	0.50	125	126	0.8				44 - 140	87	
Dibenz(a,h)anthracene	ND	0.50	122	118	3.3				10 - 200	126	
Fluoranthene	ND	0.50	125	124	0.8				43 - 121	66	I
Fluorene	ND	0.50	119	118	0.8				70 - 120	38	
Indeno(1,2,3-cd)pyrene	ND	0.50	114	106	7.3				10 - 151	99	
Naphthalene	ND	0.50	81	76	6.4				36 - 120	65	
Phenanthrene	ND	0.50	106	106	0.0				65 - 120	39	
Pyrene	ND	0.50	125	125	0.0				70 - 120	49	I
% 2-Fluorobiphenyl	65	%	99	93	6.3				30 - 130	20	
% Nitrobenzene-d5	73	%	93	86	7.8				15 - 130	20	
% Terphenyl-d14	86	%	116	116	0.0				30 - 130	20	
QA/QC Batch 472860 (ug/L), QC Sample No: CC78847 (CC79447)											
Semivolatiles - Surface Water											
Phenol	ND	1.0	64	56	13.3				17 - 120	64	
QA/QC Batch 472862 (ug/L), QC Sample No: CC78791 (CC79448)											
Semivolatiles by SIM, PAH - Surface Water											
Acenaphthene	ND	0.50	80	71	11.9				30 - 130	20	
Acenaphthylene	ND	0.30	83	75	10.1				30 - 130	20	
Anthracene	ND	0.50	96	88	8.7				30 - 130	20	
Benz(a)anthracene	ND	0.02	103	99	4.0				30 - 130	20	
Benzo(a)pyrene	ND	0.02	79	74	6.5				30 - 130	20	
Benzo(b)fluoranthene	ND	0.02	87	82	5.9				30 - 130	20	
Benzo(ghi)perylene	ND	0.48	79	71	10.7				30 - 130	20	
Benzo(k)fluoranthene	ND	0.02	99	91	8.4				30 - 130	20	
Chrysene	ND	0.02	88	81	8.3				30 - 130	20	
Dibenz(a,h)anthracene	ND	0.10	90	80	11.8				30 - 130	20	
Fluoranthene	ND	0.50	98	93	5.2				30 - 130	20	
Fluorene	ND	0.50	90	81	10.5				30 - 130	20	
Indeno(1,2,3-cd)pyrene	ND	0.02	91	82	10.4				30 - 130	20	
Naphthalene	ND	0.50	64	47	30.6				30 - 130	20	r
Phenanthrene	ND	0.06	89	83	7.0				30 - 130	20	
Pyrene	ND	0.50	101	93	8.2				30 - 130	20	

QA/QC Data

SDG I.D.: GCC79447

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
% 2-Fluorobiphenyl	73	%	74	62	17.6				30 - 130	20	
% Nitrobenzene-d5	73	%	73	51	35.5				30 - 130	20	r
% Terphenyl-d14	90	%	89	81	9.4				30 - 130	20	

Comment:

Additional 8270 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 10-110%, for soils 30-130%)

QA/QC Batch 472957 (ug/L), QC Sample No: CC77577 (CC79447, CC79448)

Volatiles - Surface Water

Benzene	ND	0.70	79	83	4.9	77	74	4.0	65 - 135	20	
Ethylbenzene	ND	1.0	83	84	1.2	77	76	1.3	60 - 140	20	
m&p-Xylene	ND	1.0	86	87	1.2	80	78	2.5	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	87	93	6.7	85	81	4.8	70 - 130	30	
Naphthalene	ND	1.0	84	88	4.7	80	78	2.5	70 - 130	30	
o-Xylene	ND	1.0	85	85	0.0	79	78	1.3	70 - 130	30	
Toluene	ND	1.0	79	83	4.9	76	73	4.0	70 - 130	20	
Vinyl chloride	ND	1.0	97	98	1.0	93	89	4.4	10 - 195	20	
% 1,2-dichlorobenzene-d4	102	%	100	100	0.0	101	99	2.0	70 - 130	30	
% Bromofluorobenzene	93	%	101	100	1.0	101	102	1.0	70 - 130	30	
% Dibromofluoromethane	102	%	101	100	1.0	104	100	3.9	70 - 130	30	
% Toluene-d8	100	%	97	101	4.0	100	97	3.0	70 - 130	30	

Comment:

A blank MS/MSD was analyzed with this batch.

QA/QC Batch 472961 (ug/L), QC Sample No: CC78643 (CC79447)

Oxygenates - Surface Water

Ethanol	ND	200	102	69	38.6				70 - 130	30	l,r
tert-butyl alcohol	ND	25	130	91	35.3				70 - 130	30	r

Comment:

The MS/MSD are not reported for this batch.

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.
r = This parameter is outside laboratory RPD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
April 17, 2019

Wednesday, April 17, 2019

Criteria: None

State: MA

Sample Criteria Exceedances Report

GCC79447 - AECOM-CHELM

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Comments

April 17, 2019 SDG I.D.: GCC79447

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report:

SVOASIM Narration

CHEM27 04/03/19-1: CC79448

The following Initial Calibration compounds did not meet RSD% criteria: Benzo(k)fluoranthene 21% (20%)
The following Initial Calibration compounds did not meet maximum RSD% criteria: None.

VOA-OXY Narration

CHEM23 04/02/19-1: CC79447

The following Initial Calibration compounds did not meet RSD% criteria: Ethanol 23% (20%)
The following Initial Calibration compounds did not meet maximum RSD% criteria: None.

The following Continuing Calibration compounds did not meet % deviation criteria: Ethanol 35%L (30%)
The following Continuing Calibration compounds did not meet Maximum % deviation criteria: None.

Cooler: Yes [X] No [ ]
Coolant: IPK [ ] ICE [ ] No [ ]
Temp 1.2 Pg of

PHOENIX
Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Data Delivery/Contact Options:
[ ] Fax:
[x] Phone: 1-978-905-2112
[x] Email: jennifer.atkins@aecom.com

Customer: AECOM
Address: 250 Apollo Drive
Chelmsford, MA 01824
Jennifer Atkins

Project: Gulf Chelsea Terminal / 60597375-0500
Report to: Jennifer Atkins
Invoice to: AECOM
QUOTE # **AE012319RM**

Project P.O:

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature _____ Date: _____

Matrix Code:
DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe OIL=Oil
B=Bulk L=Liquid

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	pH, TSS, BOD	Total Nitrogen	O&G	#AECOM624-ANNUAL	#AECOM625ANNUAL	Fecal Coliform	Ammonia, COD, Total Phosphorous	Chromium 200.7	#AECOM624-QRT	625 PAHs SIM	GL Amber 8 oz. w/H3PO4	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container ( )oz	GL Soil container ( )oz	40 ml VOA Vial [ ] As is [x] HCl	GL Amber 1000ml [x] As is [x] H2SO4	PL As is [ ] 250ml [X] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [X] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
79447	Outfall 003				x	x	x	x	x	x	x	x							3	3	1	1	1			1
79448	Chelsea Creek												x	x					3	2						

Relinquished by:	Accepted by:	Date:	Time:
	BRIAN Corey / KT		
BRIAN COREY / KT	Kristin Marciel	4.2.19	1446

Comments, Special Requirements or Regulations:

use as original (er)

OK to run past hold per client (CP)

Turnaround:
[ ] 1 Day*
[ ] 2 Days*
[ ] 3 Days*
[ ] Standard
[ ] Other
* SURCHARGE APPLIES

RI
[ ] Direct Exposure (Residential)
[ ] GW
[ ] Other

CT
[ ] RCP Cert
[ ] GW Protection
[ ] SW Protection
[ ] GA Mobility
[ ] GB Mobility
[ ] Residential DEC
[ ] I/C DEC
[ ] Other

MA
[ ] MCP Certification
[ ] GW-1
[ ] GW-2
[ ] GW-3
[ ] S-1
[ ] S-2
[ ] S-3
[ ] MWRA eSMART
[ ] Other

Data Format
[ ] Excel
[ ] PDF
[ ] GIS/Key
[ ] EQuIS
[ ] Other

Data Package
[ ] Tier II Checklist
[ ] Full Data Package*
[ ] Phoenix Std Report
[ ] Other
* SURCHARGE APPLIES

State where samples were collected: _____

Coolant: IPK [X] ICE [ ] No [ ]

Temp 1.2 °C Pg of

CHAIN OF CUSTODY RECORD

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Data Delivery/Contact Options:
- [ ] Fax:
- [x] Phone: 1-978-905-2112
- [x] Email: jennifer.atkins@aecom.com

Customer: AECOM
Address: 250 Apollo Drive
Chelmsford, MA 01824
Jennifer Atkins

Project: Gulf Chelsea Terminal / 60597375-0500
Report to: Jennifer Atkins
Invoice to: AECOM
QUOTE # **AE012319RM**

Project P.O:

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature _____ Date: _____

Matrix Code:
DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe OIL=Oil
B=Bulk L=Liquid

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	pH, TSS, BOD	Total Nitrogen	O&G	624 (CODE 3)	625 SIM (CODE 2)	Fecal Coliform	Ammonia, COD, Total Phosphorous	Chromium 200.7	624 (Code 4)	625 PAHs SIM	GL Amber 8 oz. w/H3PO4	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container ( )oz	GL Soil container ( )oz	40 ml VOA Vial [ ] As is [x] HCl	GL Amber 1000ml [x] As is [x] H2SO4	PL As is [ ] 250ml [X] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [X] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
79447	Outfall 003	SW	4-1-19	1435	x	x	x	x	x	x	x	x							3	3	2	1	1			1
79448	Chelsea Creek	SW	4-1-19	1425									x	x					3	2						

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature] 4-2-19 11:35	4-1-19	1545
[signature]	Amanda Burnce	4.2.19	14:46

Comments, Special Requirements or Regulations:

24 Code 3= BTEX (w/total xylenes), Nap, TBA, VC, MTBE, Ethanol

24 Code 4=BTEX (w/total xylenes), Nap

25 Code 2=PAH's + Phenol

Turnaround:
- [ ] 1 Day*
- [ ] 2 Days*
- [ ] 3 Days*
- [ ] Standard
- [ ] Other

* SURCHARGE APPLIES

RI
- [ ] Direct Exposure (Residential)
- [ ] GW
- [ ] Other

CT
- [ ] RCP Cert
- [ ] GW Protection
- [ ] SW Protection
- [ ] GA Mobility
- [ ] GB Mobility
- [ ] Residential DEC
- [ ] I/C DEC
- [ ] Other

MA
- [ ] MCP Certification
- [ ] GW-1
- [ ] GW-2
- [ ] GW-3
- [ ] S-1
- [ ] S-2
- [ ] S-3
- [ ] MWRA eSMART
- [ ] Other

Data Format
- [ ] Excel
- [x] PDF
- [ ] GIS/Key
- [ ] EQuIS
- [ ] Other

Data Package
- [ ] Tier II Checklist
- [ ] Full Data Package*
- [ ] Phoenix Std Report
- [ ] Other

* SURCHARGE APPLIES

State where samples were collected: MA

GCC79447

Christine Paradise

From: Atkins, Jennifer <Jennifer.Atkins@aecom.com>
Sent: Tuesday, April 02, 2019 2:12 PM
To: Christine Paradise
Subject: RE: Gulf Chelsea Terminal

Yes, please proceed with the analysis.

Regards,

Jennifer Atkins
Environmental Compliance Specialist, Environment
D +1-978-905-2112
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T +1-978-905-2100
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Built to deliver a better world

LinkedIn Twitter Facebook Instagram

From: Christine Paradise [mailto:christine@phoenixlabs.com]
Sent: Tuesday, April 02, 2019 1:57 PM
To: Atkins, Jennifer
Subject: Gulf Chelsea Terminal

Good Afternoon,

We picked up samples for this project today, however the fecal coliform is past holding time. Would you still like to proceed with the analysis?

Christine Paradise

Phoenix Environmental Laboratories
587 East Middle Turnpike
Manchester, CT 06040
Phone: 860-645-1102
Fax: 860-645-0823