

s.21

Crosson, Kirk (ENE)

AL HP F.R. 410

From: Nick Tropea [ntropea@kgsgroup.com]
Sent: December 17, 2012 9:55 AM
To: Crosson, Kirk (ENE)
Subject: CN Hornepayne Yard - 2011 Annual Report

CN 2

Hi Kirk,

We have completed and submitted the above noted project to CN for review. CN will not be able to have the report reviewed until the week of January 7-11, 2013. I have asked them to please have the report reviewed during that week, as I would like to have this report submitted to you by Friday January 11, 2013.

I trust that the 2010 Annual Report made it to you, and that you received the rate of recovery information you required.

The rates of recovery for 2011 are summarized on this email. Of course, these rates will be included in the 2011 Annual Report and provided graphically.

West End Diesel Recovery System (DRS) – 5,394 L of LNAPL collected in 2011.
Lagoon No.2 Containment System – 2,430 L of LNAPL collected in 2011.
Former Shop Track DRS / Waste Transfer Facility – These systems did not operate in 2011; however, 476 L of LNAPL, recovered from Yard operations, were placed in the waste oil tank.

Please let me know if you have any questions.

Regards,

Nick Tropea
Environmental Technologist
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2012/12/24

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AL HC FR 410

Crosson, Kirk (ENE)

From: Nick Tropea [ntropea@kgsgroup.com]
Sent: October 29, 2012 3:53 PM
To: Crosson, Kirk (ENE)
Subject: CN Hornepayne Yard - Requested Information
Attachments: Surface Water Quality Data for MOE_2012-10-29_NT.pdf

Hi Kirk,

Attached you will find a PDF table summarizing the surface water laboratory analysis from the four locations that are listed on the site C of A. The table does not include the data for October as I have not received this data from the lab.

Also, as per our discussion, the following table summarizes the recovery of LNAPL from the site in 2012.

Year	Location	LNAPL Collected
2012 (As of September 30, 2012)	West End	2,650 L
2012 (As of September 30, 2012)	East End	3,648 L

In total, 6,298 L of LNAPL has been recovered through system operations conducted at the Hornepayne Yard from May 2012 to September 2012.

I will work on getting you the 2010 and 2011 reports later this week and early next week

Let me know if you have any further questions.

Regards,

Nick Tropea
 Environmental Technologist
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 Thunder Bay, ON
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2012/10/29

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TABLE 1
 PETROLEUM HYDROCARBONS IN SURFACE WATER
 CN HORNEPAYNE YARD, HORNEPAYNE, ONTARIO

Sample ⁽¹⁾	Date	Parameter (mg/L)																Comments			
		Benzene	Toluene	Ethylbenzene	Xylene (-o)	Xylenes (-m,-p)	MTBE	F1 (C ₆ -C ₁₀)	F2 (C ₁₀ -C ₁₆)	F3 (C ₁₆ -C ₃₄)	F4 (C ₃₄ -C ₅₀)	T.P.H. (<C ₁₀)	T.E.H. (C ₁₀ -C ₂₄)	Oil & Grease	Mineral Oil & Grease	pH	Alkalinity		Hardness	Lead	
HOR 002 05 (Lagoon No.2)	Sep-12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Dry
	Aug-12	<0.0002	<0.0002	<0.0002	<0.0002	<0.0004	<0.0005	<0.1	0.33	0.18	<0.1	<0.1	0.46	3.2	0.7	7.9	430	460	<0.05		
	Jul-12	<0.0002	<0.0002	<0.0002	<0.0002	<0.0004	<0.0002	<0.1	1.20	0.38	<0.1	<0.1	1.50	<0.5	<0.5	7.7	420	410	<0.05		
	Jun-12	<0.0002	<0.0002	<0.0002	<0.0002	<0.0004	<0.0002	-	-	-	-	<0.1	0.52	1.7	<0.5	7.8	320	380	<0.05	4	
	May-12	<0.0002	<0.0002	<0.0002	<0.0002	<0.0004	<0.0002	<0.1	1.00	0.50	<0.1	<0.1	2.50	<0.5	<0.5	7.7	300	350	<0.05	4	
	Nov-11	<0.0002	<0.0002	<0.0002	<0.0002	<0.0004	<0.0002	<0.1	1.60	0.78	<0.1	<0.1	2.50	<0.5	<0.5	7.8	433	410	<0.05	4	
	Oct-11	<0.0002	<0.0002	<0.0002	<0.0002	<0.0004	<0.0001	-	-	-	-	<0.1	1.00	0.9	<0.5	7.9	327	330	<0.05	4	
	Sep-11	<0.0002	<0.0002	<0.0002	<0.0002	<0.0004	<0.0002	<0.1	1.50	0.42	<0.1	<0.1	1.90	<0.5	<0.5	7.9	432	430	<0.05	4	
	Aug-11	<0.0002	<0.0002	<0.0002	<0.0002	<0.0004	<0.0005	<0.1	1.60	0.82	<0.1	<0.1	2.40	<0.5	<0.5	8.0	441	430	<0.05	4	
	Jul-11	0.0008	<0.0002	0.0004	0.0004	<0.0004	<0.0001	-	-	-	-	0.32	8.50	<0.5	<0.5	7.6	400	410	<0.05	4	
	Jun-11	0.0006	<0.0002	0.0004	<0.0002	0.0015	<0.0002	-	-	-	-	<0.1	3.70	<0.5	<0.5	7.8	288	300	<0.05	4	
	May-11	<0.0002	<0.0002	<0.0002	<0.0002	<0.0004	<0.0005	<0.1	0.12	0.12	<0.1	<0.1	0.24	<0.5	<0.5	8.0	-	250	<0.05	4	
	Nov-10	<0.0002	<0.0002	<0.0002	<0.0002	<0.0004	<0.0002	-	-	-	-	<0.1	0.54	<0.5	<0.5	7.9	-	380	<0.05	4	
	Oct-10	0.0003	<0.0002	<0.0002	<0.0002	<0.0004	<0.0002	-	-	-	-	<0.1	0.45	<0.5	<0.5	8.1	362	400	<0.05	4	
	Sep-10	0.0003	<0.0002	<0.0002	<0.0002	<0.0004	<0.0002	-	-	-	-	<0.1	0.37	<0.5	<0.5	8.0	366	390	<0.05	4	
	Aug-10	<0.0002	<0.0002	<0.0002	<0.0002	<0.0004	<0.0001	-	-	-	-	<0.1	0.39	1.2	<0.5	7.9	272	250	<0.05	4	
	Jul-10	<0.0002	0.0002	<0.0002	<0.0002	<0.0004	<0.0001	-	-	-	-	<0.1	1.50	1.9	<0.5	7.8	363	330	<0.05	4	
	Jun-10	0.0006	<0.0002	0.0002	<0.0002	<0.0004	<0.0004	-	-	-	-	0.15	4.80	4.3	<0.5	7.6	382	360	<0.05	4	
	May-10	<0.0005	<0.01	<0.0005	<0.0005	<0.0005	<0.01	-	-	-	-	<0.1	1.80	<0.5	<0.5	7.8	393	410	<0.05	4	
	HOR 004 05 (Jackfish River, Down Stream)	Sep-12	<0.0002	<0.0002	<0.0002	<0.0002	<0.0004	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	7.8	170	180	<0.05	
Sep-12		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.8	170	-	<0.05	Lab Dup.
Aug-12		<0.0002	<0.0002	<0.0002	<0.0002	<0.0004	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	2.60	<0.5	7.9	140	150	<0.05		
Aug-12		<0.0002	<0.0002	<0.0002	<0.0002	<0.0004	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.20	<0.5	7.7	140	160	<0.05	Field Dup.	
Jul-12		<0.0002	<0.0002	<0.0002	<0.0002	<0.0004	<0.0005	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	8.0	100	100	<0.05	4	
Jul-12		-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	Lab Dup.
Jun-12		<0.0002	<0.0002	<0.0002	<0.0002	<0.0004	<0.0002	-	-	-	-	<0.1	<0.1	1.20	<0.5	8.0	88	96	<0.05		
Jun-12		<0.0002	<0.0002	<0.0002	<0.0002	<0.0004	<0.0005	<0.1	<0.1	<0.1	<0.1	-	-	<0.5	<0.5	7.9	87	96	<0.005	Field Dup.	
May-12		<0.0002	<0.0002	<0.0002	<0.0002	<0.0004	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	7.7	89	94	<0.05		
Nov-11		<0.0002	<0.0002	<0.0002	<0.0002	<0.0004	<0.0002	-	-	-	-	<0.1	<0.1	<0.5	<0.5	8.1	129	130	<0.05		
Oct-11		<0.0002	<0.0002	<0.0002	<0.0002	<0.0004	<0.0002	-	-	-	-	<0.1	<0.1	<0.5	<0.5	8.1	127	130	<0.05		
Oct-11		-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	-	-	-	-	-	-	Lab Dup.
Oct-11		<0.0002	<0.0002	<0.0002	<0.0002	<0.0004	<0.0002	<0.1	<0.1	<0.1	<0.1	-	-	<0.5	<0.5	8.0	127	130	<0.005	Field Dup.	
Sep-11		<0.0002	<0.0002	<0.0002	<0.0002	<0.0004	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	8.2	160	160	<0.05		
Aug-11		<0.0002	<0.0002	<0.0002	<0.0002	<0.0004	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	8.0	127	130	<0.05		
Aug-11		<0.0002	<0.0002	<0.0002	<0.0002	<0.0004	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	8.0	127	130	<0.05	Field Dup.	
Aug-11		-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	Lab Dup.
Jul-11		<0.0002	<0.0002	<0.0002	<0.0002	<0.0004	<0.0002	-	-	-	-	<0.1	<0.1	<0.5	<0.5	8.1	101	100	<0.05		
Jun-11		<0.0002	<0.0002	<0.0002	<0.0002	<0.0004	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	8.0	91	100	<0.05		
Jun-11		<0.0002	<0.0002	<0.0002	<0.0002	<0.0004	<0.0002	-	-	-	-	<0.1	<0.1	-	-	-	-	-	-	-	Lab Dup.
Jun-11	<0.0002	<0.0002	<0.0001	<0.0001	<0.0001	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	8.1	291	300	<0.005	Field Dup.		
May-11	<0.0002	<0.0002	<0.0002	<0.0002	<0.0004	<0.0002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	7.9	-	63	<0.05			
Nov-10	<0.0002	<0.0002	<0.0002	<0.0002	<0.0004	<0.0002	-	-	-	-	<0.1	<0.1	<0.5	<0.5	8.0	-	100	<0.005			
Oct-10	<0.0002	<0.0002	<0.0002	<0.0002	<0.0004	<0.0002	-	-	-	-	<0.1	<0.1	0.90	<0.5	8.0	98	110	<0.005			
Oct-10	<0.0002	<0.0002	<0.0002	<0.0002	<0.0004	<0.0002	-	-	-	-	<0.1	<0.1	<0.5	<0.5	8.1	102	110	<0.005	Field Dup.		
Sep-10	<0.0002	<0.0002	<0.0002	<0.0002	<0.0004	<0.0002	-	-	-	-	<0.1	<0.1	<0.5	<0.5	7.7	98	100	<0.005			

TABLE 1
 PETROLEUM HYDROCARBONS IN SURFACE WATER
 CN HORNEPAYNE YARD, HORNEPAYNE, ONTARIO
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TABLE 1
 PETROLEUM HYDROCARBONS IN SURFACE WATER
 CN HORNEPAYNE YARD, HORNEPAYNE, ONTARIO

Sample ⁽¹⁾	Date	Parameter (mg/L)														Lead	Comments					
		Benzene	Toluene	Ethyl- benzene	Xylene (-o)	Xylenes (-m,-p)	MTBE	F1 (C ₈ -C ₁₀)	F2 (C ₁₀ -C ₁₂)	F3 (C ₁₂ -C ₁₄)	F4 (C ₁₄ -C ₁₆)	T.P.H. (<C _n)	T.E.H. (C ₁₉ -C ₂₂)	Oil & Grease	Mineral Oil & Grease			pH	Alkalinity	Hardness		
HOR 004 05 Jackfish River Down Stream Cont'd	Aug-10	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	-	-	-	-	<0.1	<0.1	<0.5	<0.5	8.0	121	120	<0.05	Field Dup.		
	Aug-10	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	-	-	-	-	<0.1	<0.1	<0.5	<0.5	9.0	122	123	<0.05			
	Jul-10	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	-	-	-	-	<0.1	<0.1	0.30	<0.5	7.9	123	133	<0.05			
	Jun-10	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	-	-	-	-	<0.1	<0.1	<0.5	<0.5	7.9	129	110	<0.05	Field Dup.		
	May-10	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	-	-	-	-	<0.1	<0.1	0.80	<0.5	7.9	127	110	<0.05			
HOR 005 05 (Jackfish River, Mid-Stream)	May-10	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	-	-	-	-	<0.1	<0.1	<0.5	<0.5	8.1	98	100	<0.05			
	Sep-12	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.20	<0.5	7.8	150	170	<0.05			
	Aug-12	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.30	<0.5	7.3	130	150	<0.05			
	Aug-12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	Lab Dup.	
	Jul-12	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	7.9	99	100	<0.05			
	Jul-12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	Lab Dup.
	Jun-12	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	-	-	-	-	<0.1	0.24	<0.5	<0.5	7.9	86	95	<0.05			
	May-12	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	7.7	89	93	<0.05			
	Nov-11	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	-	-	-	-	<0.1	<0.1	<0.5	<0.5	9.1	126	120	<0.05			
	Oct-11	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	-	-	-	-	<0.1	<0.1	<0.5	<0.5	8.1	125	139	<0.05			
	Sep-11	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	-	-	-	-	<0.1	<0.1	<0.5	<0.5	7.8	156	150	<0.05			
	Aug-11	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	-	-	-	-	<0.1	<0.1	<0.5	<0.5	9.1	128	130	<0.05			
	Aug-11	-	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	Lab Dup.	
	Jul-11	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	-	-	-	-	<0.1	<0.1	<0.5	<0.5	8.0	29	100	<0.05			
	Jul-11	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	-	-	-	-	-	-	Lab Dup.	
	Jun-11	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	8.0	91	96	<0.05			
	Jun-11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.0	91	-	-	-	Lab Dup.	
May-11	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	7.9	-	66	<0.05				
Nov-10	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	-	-	-	-	<0.1	<0.1	<0.5	<0.5	7.8	-	110	<0.05				
Oct-10	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	-	-	-	-	<0.1	<0.1	0.70	<0.5	7.9	102	110	<0.05				
Sep-10	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	-	-	-	-	<0.1	<0.1	<0.5	<0.5	7.8	98	100	<0.05				
Aug-10	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	-	-	-	-	<0.1	<0.1	<0.5	<0.5	8.0	122	120	<0.05				
Jul-10	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	-	-	-	-	<0.1	<0.1	<0.5	<0.5	8.0	122	120	<0.05				
Jul-10	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	-	-	-	-	<0.1	<0.1	1.10	<0.5	7.9	123	120	<0.05				
Jun-10	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	-	-	-	-	<0.1	<0.1	0.70	<0.5	7.8	127	110	<0.05				
May-10	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	-	-	-	-	<0.1	<0.1	<0.5	<0.5	8.1	132	110	<0.05				
HOR 013 05 West End	Sep-12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Dry		
	Aug-12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Dry		
	Jul-12	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.1	0.13	0.17	<0.1	<0.1	0.27	<0.5	<0.5	8.1	270	280	<0.05			
	Jun-12	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	-	-	-	<0.1	<0.1	0.73	1.10	<0.5	8.0	330	360	<0.05			
	May-12	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.1	0.28	0.30	<0.1	<0.1	0.58	3.30	<0.5	7.9	330	380	<0.05			
	Nov-11	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.1	<0.1	0.11	<0.1	<0.1	0.24	<0.5	<0.5	8.2	239	240	<0.05	Dry		
	Oct-11	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	-	-	-	<0.1	<0.1	0.24	<0.5	<0.5	8.2	184	200	<0.05	Dry		
	Aug-11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Dry	
Jul-11	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	-	-	-	<0.1	<0.1	0.22	<0.5	<0.5	8.0	267	290	<0.05				
Jun-11	0.0005	<0.002	0.0004	<0.002	0.0005	<0.001	-	-	-	<0.1	<0.1	0.58	<0.5	<0.5	8.0	310	330	<0.05				
May-11	0.0003	<0.002	0.0005	<0.002	0.0006	<0.0005	<0.1	<0.1	<0.1	<0.1	<0.1	0.36	<0.5	<0.5	7.8	-	130	<0.05				

TABLE 1
 PETROLEUM HYDROCARBONS IN SURFACE WATER
 CN HORNEPAYNE YARD, HORNEPAYNE, ONTARIO
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Surface Water Quality Data for MOE, 2012-10-29_NT

001972

TABLE 1
 PETROLEUM HYDROCARBONS IN SURFACE WATER
 CN HORNEPAYNE YARD, HORNEPAYNE, ONTARIO

Sample ⁽¹⁾	Date	Parameter (mg/L)																Comments				
		Benzene	Toluene	Ethyl-benzene	Xylene (o)	Xylenes (m,p)	MTBE	F1 (C ₆ -C ₁₀)	F2 (C ₁₀ -C ₁₆)	F3 (C ₁₆ -C ₃₄)	F4 (C ₃₄ -C ₅₀)	T.P.H. (<C ₁₀)	T.E.H. (C ₁₀ -C ₂₄)	Oil & Grease	Mineral Oil & Grease	pH	Alkalinity		Hardness	Lead		
HOR 013 05 (West End) cont'd	Nov-10	<0.0002	<0.0002	<0.0002	<0.0002	<0.0004	<0.004	-	-	-	-	<0.1	0.34	<0.5	<0.5	7.9	-	350	<0.005			
	Oct-10	<0.0002	<0.0002	<0.0002	<0.0002	<0.0004	<0.001	-	-	-	-	<0.1	0.28	2.60	<0.5	8.0	278	310	<0.005			
	Sep-10	<0.0002	<0.0002	<0.0002	<0.0002	<0.0004	<0.005	-	-	-	-	<0.1	0.23	3.40	<0.5	8.1	229	250	<0.005			
	Aug-10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Dry	
	Jul-10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Dry
	Jun-10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Dry
May-10	<0.0001	<0.0002	<0.0001	<0.0001	<0.0001	<0.0002	-	-	-	-	-	<0.1	0.50	<0.5	<0.5	8.1	238	260	<0.005	⁽²⁾		
Certificate of Approval ⁽¹⁾																						
C of A Criteria		5	0.8	2.4	40	32	200	1,000	1,000	-	-	-	-	-	-	6.5-8.5	-	-	-	-	-	

Notes:

"-" = No Data

T.P.H. = Total Purgeable Hydrocarbons

T.E.H. = Total Extractable Hydrocarbons

MTBE = Methyl-*t*-butyl-Ether

1. Certificate of Approval No. 3528-83LOWT issued for the Yard sets the effluent criteria as listed above.

2. The limit for Lead shall be determined based on the hardness of water. If the hardness is less than 30 mg/L, then the limit is 1 µg/L. If the hardness is between 30 mg/L and 80 mg/L, then the limit is 3 µg/L. When hardness is greater than 80 mg/L, then the limit is 5 µg/L.

3. Due to the level of petroleum hydrocarbon compounds beyond the appropriate range, the sample required dilution. Detection limits were adjusted accordingly.

4. Due to foaming, the sample required dilution. Detection limits were adjusted accordingly.

BOLD - Exceedance of C of A Criteria