American Environmental

December 8, 2016

Mr. Cliff Rice
Indiana Department of Environmental Management
LUST Section
100 North Senate Avenue
P.O. Box 6015
Indianapolis, Indiana 46206-6015

RE: Quarterly Monitoring Report (3rd Quarter 2016)
Circle K #86 / Former BP #184
401 South State Street
New Albany, Indiana
Facility I.D. Number: 1031
LUST Incident Number: 2006-04516
American Environmental Corporation Project Number: J-264007

Dear Mr. Rice:

On behalf of Mac's Convenience Stores LLC (Mac's), American Environmental Corporation (American Environmental) is submitting the enclosed LUST Quarterly Monitoring Report for the facility referenced above. This Quarterly Report is being submitted to fulfill guidelines established by the Indiana Department of Environmental Management (IDEM) in the document, The Underground Storage Tank Rule, 329 IAC 9.

In preparing this report, American Environmental Corporation has applied generally acceptable professional practices and standards and has exercised its professional judgment, skills and care, in a manner consistent with that of other professionals performing similar work under similar conditions. All information, conclusions and recommendations contained in the report are necessarily governed by the site conditions and the scope of our engagement. American Environmental Corporation has made recommendations where it believes additional study or work is advisable and would bear upon the recommendations and conclusions herein. This warranty is in lieu of all other warranties, express or implied. American Environmental Corporation is not responsible for the independent conclusions, opinions or recommendations made by others, based upon the field exploration and laboratory data presented in this report.

If you have any questions or comments, please do not hesitate to contact us.

Sincerely,
AMERICAN ENVIRONMENTAL CORPORATION

Michael A. Hightchew, E.I.T.
Senior Project Engineer

Timothy J. Quinn, L.P.G.
Regional Manager

Corporate Office
8500 Georgetown Road
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317-871-4090
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4305 Muhlhauser Rd, Suite 3
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LUST QUARTERLY MONITORING

State Form XXXXX(XX-05)
329 IAC 9-5-7
Indiana Department of Environmental Management
Office of Land Quality
Leaking Underground Storage Tank Section

67-18
Indiana Department of Environmental Management
Leaking Underground Storage Tank Section
100 N. Senate Ave., Room 1101
Indianapolis, IN 46204-2251

INSTRUCTIONS:

1. This template is intended assist with the organization of the LUST Quarterly Corrective Action Progress Report (CAPR).

2. Depending on the nature of the project, some of the following sections or appendices may not be applicable. If this is the case do not leave the section blank, or omit or reorder the appendices. Instead enter "Not Applicable" or other explanation to indicate that the section does not apply or that information is not available, and why.

3. Ensure that text boxes are re-sized (as needed) in order to have all entered text visible.

4. Extra rows can be added to data entry tables (as needed) by copying the previous row and pasting it into the blank row beneath. Note, do not use the <Insert Row> function as it does not always maintain the original formatting of the table.

For Reporting Period Beginning July 1, 2016 and Ending September 30, 2016

Facility Name:	Circle K #86 / Former BP #184
IDEM Project Manager:	Cliff Rice

Facility ID:	1031
Incident #:	200604516

	Guidance
☐	1994 UST Branch Guidance Manual
☑	RISC Default
☐	RISC Non-default

	Reporting Type
☑	Approved CAP
☑	Per IDEM Project Manager Request

Facility and Responsible Party Information		**Consultant Information**	
Site Name:	Circle K #86 / Former BP #184	Company Name:	American Environmental Corporation
Site Address:	401 South State Street	Project Manager:	Michael A. Hightchew
City, State, Zip Code:	New Albany, IN 47150	Office Address:	9127 Galene Drive
County:	Floyd	Suite Number:	Suite D
Responsible Party:	Mac's Convenience Stores LLC	City, State, Zip Code:	Louisville, KY 40299
Contact Person:	Mr. Matt Jordan	Phone Number:	502-491-0144
Phone Number:	812-379-9227	Fax Number:	502-491-9271

	Contaminants (check all that apply)		
☑	Gasoline	☐	Kerosene
☑	MTBE	☐	Virgin Hydrocarbon Oil
☐	Diesel	☐	Jet Fuel
☐	Waste Oil	☐	Hazardous

	Corrective Action (check all that apply)		
☐	Pump and Treat	☐	Plume Stability
☐	Vapor Extraction	☐	MNA
☐	Air Sparging	☐	Excavation
☐	MPE / DPE	☑	Other

	Affected Media (check all that apply)		
☐	Soil	☑	Groundwater

Signature

Please note, per 329 IAC 9-5-7, this document must be signed by one of the following professionals registered in the State of Indiana: 1) Professional Engineer, 2) Licensed Professional Geologist, 3) Certified Hazardous Materials Manager, or 4) Professional Soil Scientist.

Timothy J. Quinn

12/8/2016 (signature and date)

Timothy J. Quinn, LPG #1593 (printed name with Indiana professional registration indicated)

2.0 Summary of Quarterly Remediation Activities

2.1 Summary of Engineered Remediation System Operation *(if applicable)*

Indicate the type of system, dates of operation, and state if (and how long) the system was inoperable during the reporting period. Any laboratory analytical data generated during this reporting period related to the operation of the remediation system (i.e., influent/effluent sampling, emissions data) should be included in **APPENDIX A**.

American Environmental initiated 12 monthly vapor enhanced recovery (VER) events on August 20, 2008 on MW-3 and OW-5R. The last VER event occured on July 29, 2009. This remediation activity was approved by CAP Approval letter dated May 1, 2008. The Corrective Action Plan Implementation Report was approved by the IDEM on February 21, 2012.

2.2 Groundwater Recovered *(if applicable)*		Groundwater Treated *(if applicable)*	
Ground Water Recovered During Reporting Period (gallons)	0	Ground Water Treated During Reporting Period (gallons)	Not Applicable
Cumulative Total of Groundwater Recovered over Lifetime of System Operation (gallons)	15,117	Cumulative Total of Ground Water Treated over Lifetime of System Operation (gallons)	Not Applicable
Final Disposition (i.e., disposal or discharge)	Disposed at ESI in Indianapolis, IN	Final Disposition (i.e., disposal or discharge)	Not Applicable

2.3 Free Product Recovered *(if applicable)*		2.4 Pounds VOCs Removed *(if applicable)*	
Free Product Recovered During Reporting Period (gallons)	Not Applicable	VOCs removed (pounds) During Reporting Period	Not Applicable
Cumulative Total of Free Product Recovered over Lifetime of System Operation (gallons)	Not Applicable	Cumulative Total of VOCs Removed over Lifetime of System Operation (pounds)	Not Applicable
Final Disposition	Not Applicable	Indicate whether VOC emissions were treated or discharged directly into the atmosphere	Not Applicable

2.5 ORC Application *(if applicable)*			
All injection point locations should be included on FIGURE 4			
Number of Injection Points or Excavation Dimensions	Not Applicable	Total Pounds ORC Applied This Reporting Period	Not Applicable
Pounds of ORC per Injection Point or per Excavation	Not Applicable	Cumulative Total of ORC Applied over Lifetime of Remediation Activity (pounds)	Not Applicable

2.6 Soil Removal *(if applicable)*

Excavation boundaries should be included on **FIGURE 4**. A table summarizing confirmatory soil sampling should be included (along with supporting laboratory data and chain-of-custody documentation and disposal receipts) in **APPENDIX A**. Please Note: For the purposes of ELTF Reimbursement the conversion factor for cu yds to tons is 1 cu yd = 1.36 tons

Soil in Tons/Cubic Yards Removed During this Reporting Period	Not Applicable	Date Removed	Not Applicable
Cumulative Amount of Soil Removed to Date at this Facility as Part of Corrective Actions (tons)	Not Applicable		

2.7 Monitored Natural Attenuation (MNA)/Plume Stability *(if applicable)*

Indicate the length of time that MNA or Plume Stability monitoring has been occurring at this facility. Any data supporting a decreasing contaminant trend should be discussed in this section and included in **APPENDIX A**. All calculations supporting a default or non-default RISC demonstration of Plume Stability should be discussed in this section and included in **APPENDIX A**.

OW-8 was inaccessible this quarter but had exhibited a benzene level below the RDCL for 34 out of the past 40 quarters. The benzene level in OW-6R was below the RDCL this quarter and has been below the RDCL for 34 out of the past 39 quarters. The benzene concentration fluctuated in MW-3/MW-3R from 2005 to 2011, exhibitied a general decreasing trend since 2011, decreased this quarter and has been above the CDCL for 44 consecutive quarters. The benzene concentration in MW-6 was above the RDCL this quarter and has been above the CDCL for 2 out of the last 33 quarters. Trend charts depicting benzene concentrations and relative groundwater elevations over time for wells MW-3/MW-3R, MW-6, and OW-5R/MW-8 are provided in Appendix A.

3.0 Current Site Conditions

3.1 Soil

Provide any soil data collected during the reporting period. Tables have been provided at the end of this form.

Please include the following:
TABLE 1—Soil Analytical Data
FIGURE 1—Most Recent Soil Analytical Data on site map

All soil data should be reported in parts per million (ppm). Laboratory and supporting chain-of-custody documentation should be included in **APPENDIX B**. Historical soil analytical results should be summarized and included in table format in **APPENDIX C**.

Note: MS/MSD samples are not required during corrective action monitoring activities unless otherwise directed by IDEM staff. However, prior to requesting site closure (during confirmatory soil and ground water sampling) an MS/MSD sample (for all affected media) will be required. Exceptions may be made on a site-specific basis for facilities that demonstrated soil concentrations below the applicable IDEM action levels prior to the implementation of IDEM's Minimum Data Documentation Requirements. IDEM requests that, in addition to the required hardcopy reports, all sampling results are submitted electronically to LeakingUST@idem.in.gov. Guidance on formatting sampling results for electronic submittal is posted at www.in.gov/idem/land/lust/electronicreporting.html.

Not Applicable

3.2 Groundwater

Provide the most recent groundwater data available for the subject site. Tables have been provided at the end of this form.

Please include the following:
TABLE 2—Groundwater Elevations
TABLE 3—Groundwater Analytical Results
FIGURE 2—Most Recent Groundwater Analytical Data on site map
FIGURE 3—Groundwater Contour Map indicating groundwater flow direction

All groundwater data should be reported in parts per billion (ppb). Laboratory and supporting chain-of-custody documentation should be included in **APPENDIX B**. Historical groundwater analytical results should be summarized and included in table format in **APPENDIX C**.

Note: MS/MSD samples are not required during corrective action monitoring activities unless otherwise directed by IDEM staff. However, prior to requesting site closure (during confirmatory soil and ground water sampling) an MS/MSD sample (for all affected media) will be required. Exceptions may be made on a site-specific basis for facilities that demonstrated groundwater concentrations below the applicable IDEM action levels prior to the implementation of IDEM's Minimum Data Documentation Requirements. IDEM also requests that, in addition to the required hardcopy reports, all
sampling results are submitted electronically to LeakingUST@idem.in.gov. Guidance on formatting sampling results for electronic submittal is posted at www.in.gov/idem/land/lust/electronicreporting.html.

American Environmental gauged and collected groundwater samples from 12 monitoring wells on September 16, 2016. All samples were submitted to ESC, located in Mt. Juliet, TN, for analysis of BTEX and MTBE. The laboratory analytical results are included in Appendix B. The most recent groundwater analytical results are summarized in Table 3 and on Figure 2. Static water level measurements were recorded to the nearest 0.01 of a foot with an electronic water level indicator and groundwater elevations were calculated. The groundwater elevations are summarized in Table 2. The groundwater contour map indicating flow direction is shown in Figure 3. Historical groundwater elevation and laboratory analytical results are summarized in Appendix C.

The QA/QC evaluation revealed the following:
· The laboratory control samples were within laboratory acceptance limits.
· Surrogate spike recoveries were within the USEPA acceptance limits in all samples.
· No analytes were detected above the laboratory reporting limits in the trip blank.
· RPDs were calculated for analytes detected in both the MW-3R sample and the duplicate sample from MW-3R.
The RPD for benzene was calculated to be 5.62%. This difference is acceptable based on the methodologies employed.
· All samples were analyzed within the USEPA holding times.

4.0 Conclusions

Briefly summarize all remediation activities that occurred at this facility during the most recent reporting period. Provide an estimate of the work that will be performed during the upcoming reporting period.
American Environmental gauged and collected groundwater samples from 12 monitoring wells on September 16, 2016. All samples were submitted to ESC, located in Mt. Juliet, TN, for analysis of BTEX and MTBE. Benzene concentrations exceeded the RISC commercial default closure level (CDCL) in monitoring well MW-3R. Benzene was not detected above the RISC residential default closure level (RDCL) in any of the other wells sampled. Benzene was detected below the RDCL in OW-4R, MW-6, MW-7 and MW-8. Toluene was detected below the RDCL in MW-3R. Ethylbenzene was detected below the RDCL in OW-4R, MW-3R, MW-6 and MW-8. Xylenes were detected below the RDCL in OW-4R, MW-3R and MW-8. MTBE was detected below the RDCL in MW-3R and MW-6. Quarterly groundwater monitoring will continue in the fourth quarter of 2016. American Environmental submitted a CAP dated February 4, 2008. IDEM approved the CAP by letter dated May 1, 2008. An NFA was granted for the previous 1991 BP release (Incident Number 199103537). The site is now under the 2004 RISC Default Closure levels. American Environmental performed the last of 12 approved VER events on July 29, 2009. American Environmental provided IDEM with Chase Bank's (location of MW-3R) contact information by e-mail regarding a possible ERC dated February 2, 2011. American Environmental emailed Mr. Lisciotto with Chase Bank and sent an ERC request for his review on January 17, 2012. American Environmental left several voice mails and sent several emails in regards to the ERC request. American Environmental, at IDEM's request, has requested Mac's to contact Chase Bank on this matter. American Environmental could not determinine whether MW-3/MW-3R is physically located on Chase's property or within the alley to determine if an ERC is required to close the site. American Environmental provided Chase Bank a copy of a draft Environmental Restrictive Covenants for review. Chase rejected the ERC request by email dated May 5, 2016. American Environmental submitted a NFA Request dated August 25, 2016.

5.0 Required Table Formats

Table 2. Groundwater Elevations
9/16/2016

Monitoring Well ID	Top of Casing Elevation (ft)	Depth to Groundwater (ft)*	Free Product Thickness (ft)	Groundwater Elevation (ft)
OW-1R	99.64	17.02	0	82.62
OW-3	99.05	15.73	0	83.32
OW-4R	99.56	16.81	0	82.75
OW-6R	98.70	16.19	0	82.51
OW-8	98.88	Dumpster located over well		
MW-1	98.67	16.54	0	82.13
MW-2R	97.39	15.25	0	82.14
MW-3R	98.13	15.75	0	82.38
MW-4	98.96	16.60	0	82.36
MW-5R	96.90	14.60	0	82.30
MW-6	98.29	15.77	0	82.52
MW-7	96.33	14.27	0	82.06
MW-8	99.86	17.20	0	82.66

**Measured from top of casing*

Table 3. Groundwater Analytical Results
9/16/2016

Well ID	CONTAMINANTS OF CONCERN (COC) all units in µg/l				
	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
OW-1R	<0.5	<5	<0.5	<1.5	<1
OW-3	<0.5	<5	<0.5	<1.5	<1
OW-4R	0.907	<5	1.58	4.99	<1
OW-6R	<0.5	<5	<0.5	<1.5	<1
OW-8	Dumpster located over well				
MW-1*	<0.5	<5	<0.5	<1.5	<1
MW-2R*	<0.5	<5	<0.5	<1.5	<1
MW-3R*	**82.3**	11.9	13	11.9	3.74
MW-4*	<0.5	<5	<0.5	<1.5	<1
MW-5R*	<0.5	<5	<0.5	<1.5	<1
MW-6	*7.51*	<5	1.18	<1.5	1.02
MW-7*	2.54	<5	<0.5	<1.5	<1
MW-8	0.619	<5	2.01	4.3	<1
Duplicate (MW-3R)	**77.8**	12.2	12.6	11.5	3.43
RISC CDCL	**52**	**20,000**	**10,000**	**20,000**	**870**
RISC RDCL	*5*	*1,000*	*700*	*10,000*	*40*

Bold = COC concentration greater than the 2004 RISC CDCL Cleanup Objective
Italics = COC concentration greater than the 2004 RISC RDCL Cleanup Objective
* Off-site

N

JOY'S COFFEE NOOK

DRIVE THRU BANKING

MW-3R

	9/16/16
B	82.3
T	11.9
E	13
X	11.9
M	3.74

MW-5R

	9/16/16
B	<0.5
T	<5.0
E	<0.5
X	<1.5
M	<1.0

MW-5R

PARKING

MW-2R

	9/16/16
B	<0.5
T	<5.0
E	<0.5
X	<1.5
M	<1.0

SIDEWALK

MW-2R

MW-3R

MW-3

MW-7

MW-7

	9/16/16
B	2.54
T	<5.0
E	<0.5
X	<1.5
M	<1.0

MW-2

UNABLE TO LOCATE

WEST FIRST STREET

LAW OFFICES

CHASE BANK

MW-4

	9/16/16
B	<0.5
T	<5.0
E	<0.5
X	<1.5
M	<1.0

MW-4

MW-1

MW-1

	9/16/16
B	<0.5
T	<5.0
E	<0.5
X	<1.5
M	<1.0

OW-8

Inaccessible

CK #86 CONVENIENCE STORE BLDG

MW-8

	9/16/16
B	0.619
T	<5
E	2.01
X	4.3
M	<1

MW-8

OW-5R
ABANDONED

OW-4R

	9/16/16
B	0.907
T	<5
E	1.58
X	4.99
M	<1

SIDEWALK

STATE STREET (U.S. HWY 150)

GASOLINE UST

GASOLINE UST

CANOPY

MW-6

ALLEY

MW-6

	9/16/16
B	7.51
T	<5
E	1.18
X	<1.5
M	1.02

OW-6R

OW-6R

	9/16/16
B	<0.5
T	<5.0
E	<0.5
X	<1.5
M	<1.0

OW-1R

SIDEWALK

OW-1R

	9/16/16
B	<0.5
T	<5.0
E	<0.5
X	<1.5
M	<1.0

OW-3

OW-3

	9/16/16
B	<0.5
T	<5
E	<0.5
X	<1.5
M	<1.0

SPRING STREET

YOUR COMMUNITY BANK

LEGEND

MONITORING WELL

OW-4R

	6/8/16
B	1.59
T	<5
E	1.31
X	3.06
M	<1

BTEXM RESULTS IN PPB

30 0 30

SCALE IN FEET

American Environmental

Indianapolis, Indiana–Corporate Office (317) 871–4090
Louisville, Kentucky–Regional Office (502) 491–0144
Springfield, Illinois–Refional office (217) 585–9517
Fairfield, Ohio–Regional Office (513) 874–7740

GROUNDWATER BTEXM RESULTS 9/16/16
CIRCLE K # 86
401 SOUTH STATE STREET
NEW ALBANY, INDIANA

Project No.: 264007	SCALE: AS SHOWN
Drawing File: 264007	FIGURE: 2
Date: 11/30/16	

LEGEND

MONITORING WELL

JOY'S COFFEE NOOK

DRIVE THRU BANKING

MW–5R (82.30)

PARKING

SIDEWALK

(82.14) MW–2R

(82.38) MW–3R

MW–3

MW–7 (82.06)

MW–2

UNABLE TO LOCATE

CHASE BANK

WEST FIRST STREET

LAW OFFICES

MW–4 (82.38)

82.25

MW–1 (82.13)

OW–8 inaccessible

CK #86 CONVENIENCE STORE BLDG

(82.66) MW–8

OW–5R ABANDONED

(82.75) OW–4R

SIDEWALK

STATE STREET (U.S. HWY 150)

GASOLINE UST

GASOLINE UST

CANOPY

83.0

(82.52) MW–6

ALLEY

82.50

OW–6R (82.51)

82.75

OW–1R (82.62)

SIDEWALK

OW–3 (83.32)

83.25

SPRING STREET

YOUR COMMUNITY BANK

30 0 30

SCALE IN FEET

American Environmental

Indianapolis, Indiana–Corporate Office (317) 871–4090
Louisville, Kentucky–Regional Office (502) 491–0144
Springfield, Illinois–Refional office (217) 585–9517
Fairfield, Ohio–Regional Office (513) 874–7740

POTENTIOMETRIC MAP 9/16/16
CIRCLE K # 86
401 SOUTH STATE STREET
NEW ALBANY, INDIANA

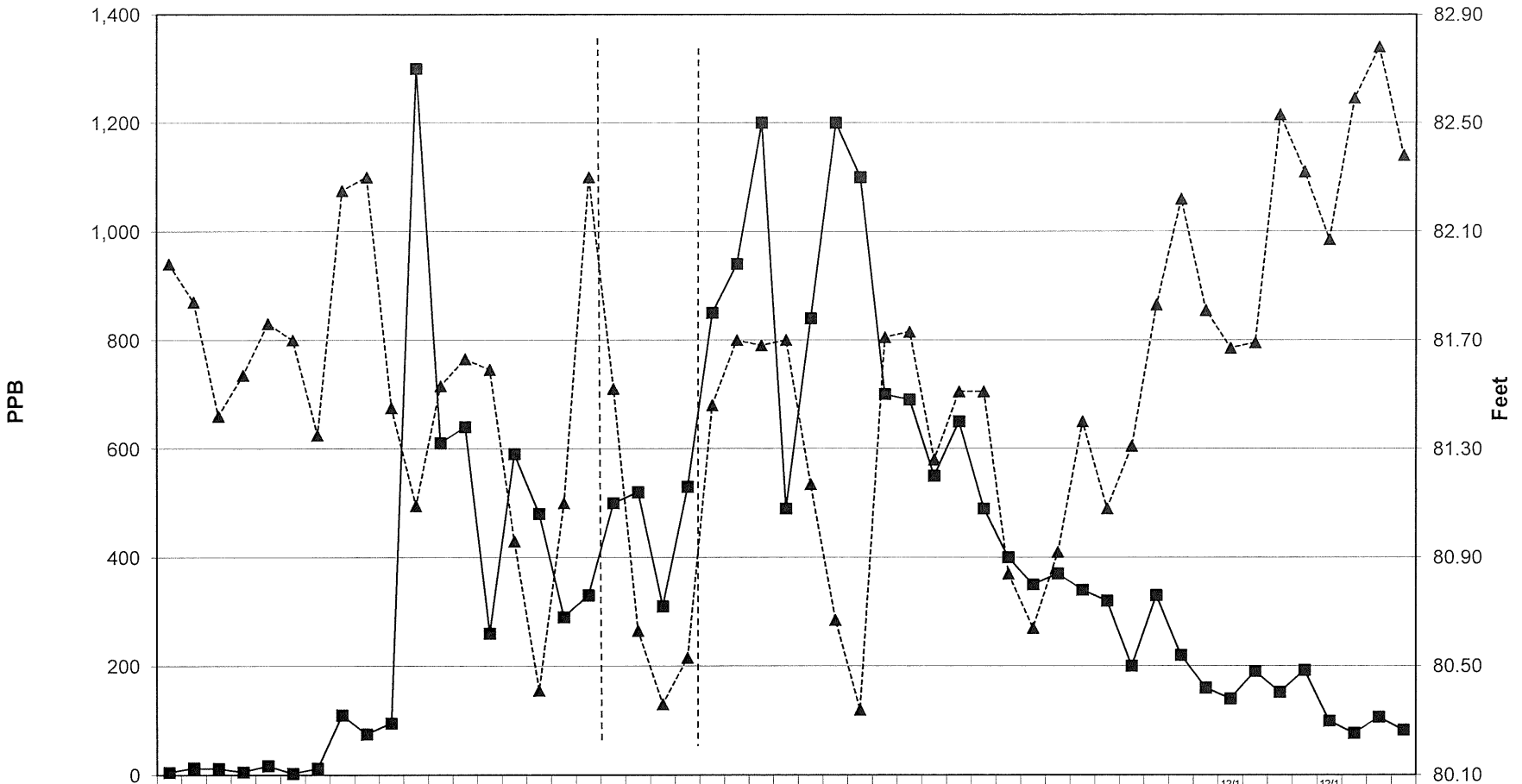
Project No.: 264007	SCALE: AS SHOWN
Drawing File: 264007	FIGURE: 3
Date: 11/30/2016	

APPENDIX A

Remediation System Data (Not Applicable)
Influent/Effluent Laboratory Analytical Results (Not Applicable)
Air Laboratory Analytical Results (Not Applicable)
Air Calculation Spreadsheet (Not Applicable)
Monitored Natural Attenuation/Plume Stability (Not Applicable)
Trend Charts

Circle K #86 MW-3/MW-3R Benzene Concentration vs. Time

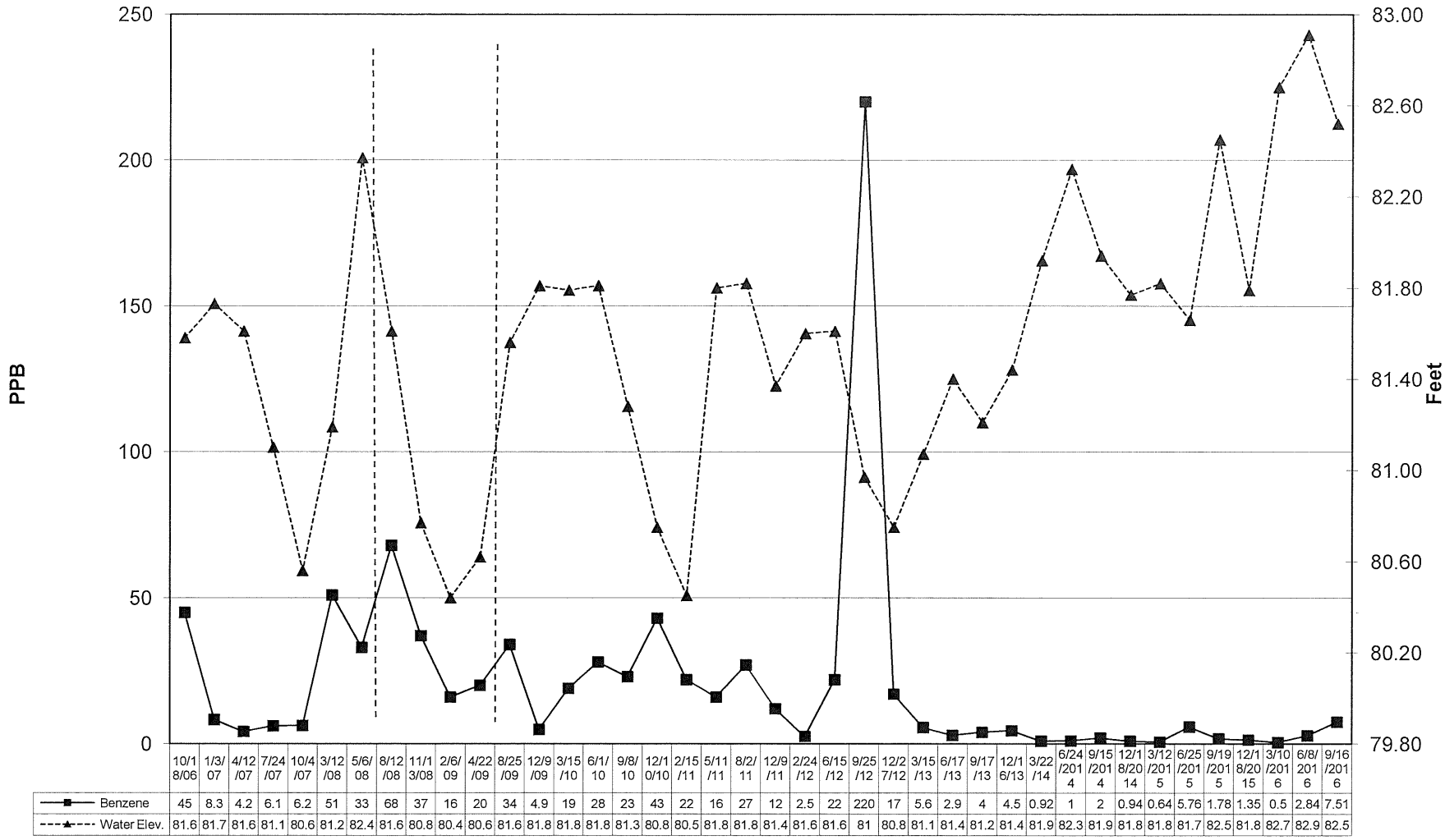
MONTHLY VER EVENTS



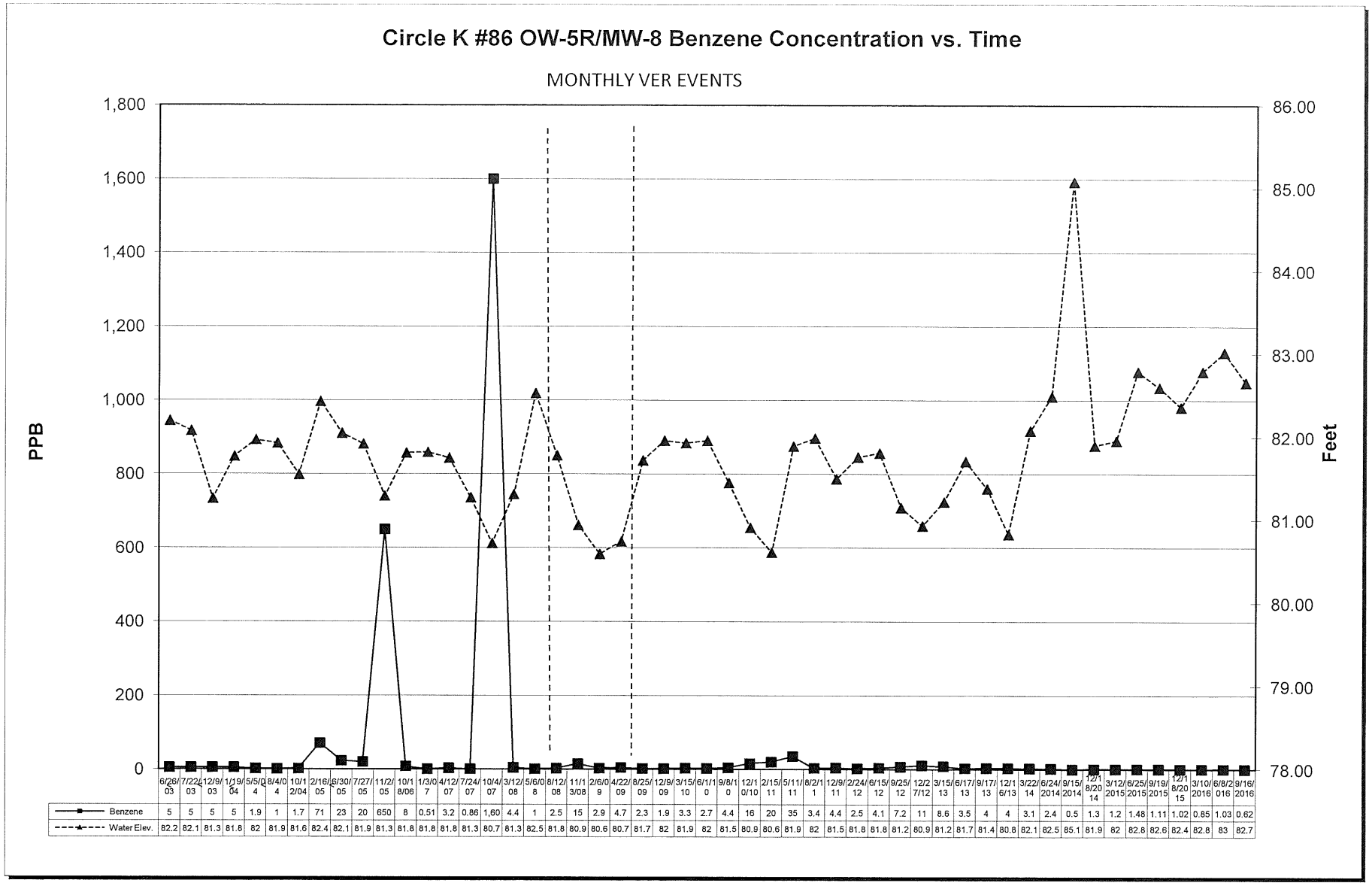
	6/26/03	7/22/03	12/9/03	1/19/04	5/5/04	8/4/04	10/12/04	2/16/05	6/30/05	7/27/05	11/2/05	10/18/06	1/3/07	4/12/07	7/24/07	10/4/07	3/12/08	5/6/08	8/12/08	11/13/08	2/6/09	4/22/09	8/25/09	12/9/09	3/15/10	6/1/10	9/8/10	12/10/10	2/15/11	5/11/11	8/2/11	12/9/11	2/24/12	6/15/12	9/25/12	12/27/12	3/15/13	6/17/13	9/17/13	12/16/13	3/22/14	6/24/2014	9/15/2014	12/18/2014	3/12/2015	6/25/2015	9/19/2015	12/18/2015	3/10/2016	6/8/2016	9/16/2016
Benzene	5	13	12	5.6	17	2.7	12	110	75	95	1,30	610	640	260	590	480	290	330	500	520	310	530	850	940	1,20	490	840	1,20	1,10	700	690	550	650	490	400	350	370	340	320	200	330	220	160	140	190	152	192	99	76.5	106	82.3
Water Elev.	82	81.8	81.4	81.6	81.8	81.7	81.4	82.3	82.3	81.5	81.1	81.5	81.6	81.6	81	80.4	81.1	82.3	81.5	80.6	80.4	80.5	81.5	81.7	81.7	81.7	81.2	80.7	80.3	81.7	81.7	81.3	81.5	81.5	80.8	80.6	80.9	81.4	81.1	81.3	81.8	82.2	81.8	81.7	81.7	82.5	82.3	82.1	82.6	82.8	82.4

Circle K #86 MW-6 Benzene Concentration vs. Time

MONTHLY VER EVENTS



	10/18/06	1/3/07	4/12/07	7/24/07	10/4/07	3/12/08	5/6/08	8/12/08	11/13/08	2/6/09	4/22/09	8/25/09	12/9/09	3/15/10	6/1/10	9/8/10	12/10/10	2/15/11	5/11/11	8/2/11	12/9/11	2/24/12	6/15/12	9/25/12	12/27/12	3/15/13	6/17/13	9/17/13	12/16/13	3/22/14	6/24/2014	9/15/2014	12/18/2014	3/12/2015	6/25/2015	9/19/2015	12/18/2015	3/10/2016	6/8/2016	9/16/2016
Benzene	45	8.3	4.2	6.1	6.2	51	33	68	37	16	20	34	4.9	19	28	23	43	22	16	27	12	2.5	22	220	17	5.6	2.9	4	4.5	0.92	1	2	0.94	0.64	5.76	1.78	1.35	0.5	2.84	7.51
Water Elev.	81.6	81.7	81.6	81.1	80.6	81.2	82.4	81.6	80.8	80.4	80.6	81.6	81.8	81.8	81.8	81.3	80.8	80.5	81.8	81.8	81.4	81.6	81.6	81	80.8	81.1	81.4	81.2	81.4	81.9	82.3	81.9	81.8	81.8	81.7	82.5	81.8	82.7	82.9	82.5



	6/26/03	7/22/03	12/9/03	1/19/04	5/5/04	8/4/04	10/12/04	2/16/05	5/30/05	7/27/05	11/2/05	10/18/06	1/3/07	4/12/07	7/24/07	10/4/07	3/12/08	5/6/08	8/12/08	11/13/08	2/6/09	4/22/09	8/25/09	12/9/09	3/15/10	6/1/10	9/8/10	12/10/10	2/15/11	5/11/11	8/2/11	12/9/11	2/24/12	6/15/12	9/25/12	12/27/12	3/15/13	6/17/13	9/17/13	12/16/13	3/22/14	6/24/2014	9/15/2014	12/18/2014	3/12/2015	6/25/2015	9/19/2015	12/18/2015	3/10/2016	6/8/2016	9/16/2016
Benzene	5	5	5	5	1.9	1	1.7	71	23	20	650	8	0.51	3.2	0.86	1,60	4.4	1	2.5	15	2.9	4.7	2.3	1.9	3.3	2.7	4.4	16	20	35	3.4	4.4	2.5	4.1	7.2	11	8.6	3.5	4	4	3.1	2.4	0.5	1.3	1.2	1.48	1.11	1.02	0.85	1.03	0.62
Water Elev.	82.2	82.1	81.3	81.8	82	81.9	81.6	82.4	82.1	81.9	81.3	81.8	81.8	81.8	81.3	80.7	81.3	82.5	81.8	80.9	80.6	80.7	81.7	82	81.9	82	81.5	80.9	80.6	81.9	82	81.5	81.8	81.8	81.2	80.9	81.2	81.7	81.4	80.8	82.1	82.5	85.1	81.9	82	82.8	82.6	82.4	82.8	83	82.7

APPENDIX B

Groundwater Analytical Results

ANALYTICAL REPORT

September 26, 2016

American Environmental -KY CKR

Sample Delivery Group:	L860259
Samples Received:	09/17/2016
Project Number:	264007
Description:	Quarterly Monitoring - Circle K 86
Site:	86
Report To:	Mike Hightchew 9127 Galene Drive, Suite D Louisville, KY 40299

Entire Report Reviewed By:

Jeff Carr
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

TABLE OF CONTENTS

[1]Cp: Cover Page 1

[2]Tc: Table of Contents 2

[3]Ss: Sample Summary 3

[4]Cn: Case Narrative 5

[5]Sr: Sample Results 6

OW-1R L860259-01 6

OW-3 L860259-02 7

OW-4R L860259-03 8

OW-6R L860259-04 9

MW-1 L860259-05 10

MW-2R L860259-06 11

MW-3R L860259-07 12

MW-4 L860259-08 13

MW-5R L860259-09 14

MW-6 L860259-10 15

MW-7 L860259-11 16

MW-8 L860259-12 17

DUPLICATE L860259-13 18

TRIP BLANK L860259-14 19

[6]Qc: Quality Control Summary 20

Volatile Organic Compounds (GC) by Method 8021 20

[7]Gl: Glossary of Terms 21

[8]Al: Accreditations & Locations 22

[9]Sc: Chain of Custody 23

OW-1R L860259-01 GW

Collected by: Mike Hightchew | Collected date/time: 09/16/16 08:20 | Received date/time: 09/17/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8021	WG910138	1	09/24/16 18:04	09/24/16 18:04	ACG

OW-3 L860259-02 GW

Collected by: Mike Hightchew | Collected date/time: 09/16/16 08:10 | Received date/time: 09/17/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8021	WG910138	1	09/24/16 18:28	09/24/16 18:28	ACG

OW-4R L860259-03 GW

Collected by: Mike Hightchew | Collected date/time: 09/16/16 08:00 | Received date/time: 09/17/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8021	WG910138	1	09/24/16 18:52	09/24/16 18:52	ACG

OW-6R L860259-04 GW

Collected by: Mike Hightchew | Collected date/time: 09/16/16 08:30 | Received date/time: 09/17/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8021	WG910138	1	09/24/16 19:16	09/24/16 19:16	ACG

MW-1 L860259-05 GW

Collected by: Mike Hightchew | Collected date/time: 09/16/16 09:30 | Received date/time: 09/17/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8021	WG910138	1	09/24/16 19:41	09/24/16 19:41	ACG

MW-2R L860259-06 GW

Collected by: Mike Hightchew | Collected date/time: 09/16/16 09:10 | Received date/time: 09/17/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8021	WG910138	1	09/24/16 20:05	09/24/16 20:05	ACG

MW-3R L860259-07 GW

Collected by: Mike Hightchew | Collected date/time: 09/16/16 08:50 | Received date/time: 09/17/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8021	WG910138	1	09/24/16 20:30	09/24/16 20:30	ACG

MW-4 L860259-08 GW

Collected by: Mike Hightchew | Collected date/time: 09/16/16 09:40 | Received date/time: 09/17/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8021	WG910138	1	09/24/16 20:54	09/24/16 20:54	ACG

MW-5R L860259-09 GW

Collected by: Mike Hightchew
Collected date/time: 09/16/16 09:00
Received date/time: 09/17/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8021	WG910138	1	09/24/16 21:19	09/24/16 21:19	ACG

MW-6 L860259-10 GW

Collected by: Mike Hightchew
Collected date/time: 09/16/16 08:40
Received date/time: 09/17/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8021	WG910138	1	09/24/16 21:43	09/24/16 21:43	ACG

MW-7 L860259-11 GW

Collected by: Mike Hightchew
Collected date/time: 09/16/16 09:20
Received date/time: 09/17/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8021	WG910138	1	09/24/16 22:08	09/24/16 22:08	ACG

MW-8 L860259-12 GW

Collected by: Mike Hightchew
Collected date/time: 09/16/16 07:50
Received date/time: 09/17/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8021	WG910138	1	09/24/16 22:32	09/24/16 22:32	ACG

DUPLICATE L860259-13 GW

Collected by: Mike Hightchew
Collected date/time: 09/16/16 00:00
Received date/time: 09/17/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8021	WG910138	1	09/24/16 22:57	09/24/16 22:57	ACG

TRIP BLANK L860259-14 GW

Collected by: Mike Hightchew
Collected date/time: 09/16/16 00:00
Received date/time: 09/17/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8021	WG910138	1	09/24/16 15:16	09/24/16 15:16	ACG

All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Jeff Carr
Technical Service Representative

Sample Handling and Receiving

VOC pH outside of method requirement.

ESC Sample ID	Project Sample ID	Method
L860259-03	OW-4R	8021

Volatile Organic Compounds (GC) by Method 8021

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		0.500	1	09/24/2016 18:04	WG910138
Toluene	ND		5.00	1	09/24/2016 18:04	WG910138
Ethylbenzene	ND		0.500	1	09/24/2016 18:04	WG910138
Total Xylene	ND		1.50	1	09/24/2016 18:04	WG910138
Methyl tert-butyl ether	ND		1.00	1	09/24/2016 18:04	WG910138
(S) a,a,a-Trifluorotoluene(PID)	*118*		*55.0-122*		*09/24/2016 18:04*	WG910138

Volatile Organic Compounds (GC) by Method 8021

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		0.500	1	09/24/2016 18:28	WG910138
Toluene	ND		5.00	1	09/24/2016 18:28	WG910138
Ethylbenzene	ND		0.500	1	09/24/2016 18:28	WG910138
Total Xylene	ND		1.50	1	09/24/2016 18:28	WG910138
Methyl tert-butyl ether	ND		1.00	1	09/24/2016 18:28	WG910138
(S) a,a,a-Trifluorotoluene(PID)	*119*		*55.0-122*		*09/24/2016 18:28*	WG910138

Volatile Organic Compounds (GC) by Method 8021

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	0.907		0.500	1	09/24/2016 18:52	WG910138
Toluene	ND		5.00	1	09/24/2016 18:52	WG910138
Ethylbenzene	1.58		0.500	1	09/24/2016 18:52	WG910138
Total Xylene	4.99	B	1.50	1	09/24/2016 18:52	WG910138
Methyl tert-butyl ether	ND		1.00	1	09/24/2016 18:52	WG910138
(S) a,a,a-Trifluorotoluene(PID)	*120*		*55.0-122*		*09/24/2016 18:52*	WG910138

Volatile Organic Compounds (GC) by Method 8021

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		0.500	1	09/24/2016 19:16	WG910138
Toluene	ND		5.00	1	09/24/2016 19:16	WG910138
Ethylbenzene	ND		0.500	1	09/24/2016 19:16	WG910138
Total Xylene	ND		1.50	1	09/24/2016 19:16	WG910138
Methyl tert-butyl ether	ND		1.00	1	09/24/2016 19:16	WG910138
(S) a,a,a-Trifluorotoluene(PID)	*119*		*55.0-122*		*09/24/2016 19:16*	WG910138

Volatile Organic Compounds (GC) by Method 8021

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		0.500	1	09/24/2016 19:41	WG910138
Toluene	ND		5.00	1	09/24/2016 19:41	WG910138
Ethylbenzene	ND		0.500	1	09/24/2016 19:41	WG910138
Total Xylene	ND		1.50	1	09/24/2016 19:41	WG910138
Methyl tert-butyl ether	ND		1.00	1	09/24/2016 19:41	WG910138
(S) a,a,a-Trifluorotoluene(PID)	*118*		*55.0-122*		*09/24/2016 19:41*	WG910138

Volatile Organic Compounds (GC) by Method 8021

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		0.500	1	09/24/2016 20:05	WG910138
Toluene	ND		5.00	1	09/24/2016 20:05	WG910138
Ethylbenzene	ND		0.500	1	09/24/2016 20:05	WG910138
Total Xylene	ND		1.50	1	09/24/2016 20:05	WG910138
Methyl tert-butyl ether	ND		1.00	1	09/24/2016 20:05	WG910138
(S) a,a,a-Trifluorotoluene(PID)	*119*		*55.0-122*		*09/24/2016 20:05*	WG910138

Volatile Organic Compounds (GC) by Method 8021

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	82.3		0.500	1	09/24/2016 20:30	WG910138
Toluene	11.9		5.00	1	09/24/2016 20:30	WG910138
Ethylbenzene	13.0		0.500	1	09/24/2016 20:30	WG910138
Total Xylene	11.9		1.50	1	09/24/2016 20:30	WG910138
Methyl tert-butyl ether	3.74		1.00	1	09/24/2016 20:30	WG910138
(S) a,a,a-Trifluorotoluene(PID)	*126*	J1	*55.0-122*		*09/24/2016 20:30*	WG910138

Sample Narrative:

8021 L860259-07 WG910138: Surrogate failure due to sample matrix.

Volatile Organic Compounds (GC) by Method 8021

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		0.500	1	09/24/2016 20:54	WG910138
Toluene	ND		5.00	1	09/24/2016 20:54	WG910138
Ethylbenzene	ND		0.500	1	09/24/2016 20:54	WG910138
Total Xylene	ND		1.50	1	09/24/2016 20:54	WG910138
Methyl tert-butyl ether	ND		1.00	1	09/24/2016 20:54	WG910138
(S) a,a,a-Trifluorotoluene(PID)	*119*		*55.0-122*		*09/24/2016 20:54*	WG910138

Volatile Organic Compounds (GC) by Method 8021

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		0.500	1	09/24/2016 21:19	WG910138
Toluene	ND		5.00	1	09/24/2016 21:19	WG910138
Ethylbenzene	ND		0.500	1	09/24/2016 21:19	WG910138
Total Xylene	ND		1.50	1	09/24/2016 21:19	WG910138
Methyl tert-butyl ether	ND		1.00	1	09/24/2016 21:19	WG910138
(S) a,a,a-Trifluorotoluene(PID)	*119*		*55.0-122*		*09/24/2016 21:19*	WG910138

Volatile Organic Compounds (GC) by Method 8021

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	7.51		0.500	1	09/24/2016 21:43	WG910138
Toluene	ND		5.00	1	09/24/2016 21:43	WG910138
Ethylbenzene	ND		0.500	1	09/24/2016 21:43	WG910138
Total Xylene	ND		1.50	1	09/24/2016 21:43	WG910138
Methyl tert-butyl ether	1.02		1.00	1	09/24/2016 21:43	WG910138
(S) a,a,a-Trifluorotoluene(PID)	*120*		*55.0-122*		*09/24/2016 21:43*	WG910138

Volatile Organic Compounds (GC) by Method 8021

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	2.54		0.500	1	09/24/2016 22:08	WG910138
Toluene	ND		5.00	1	09/24/2016 22:08	WG910138
Ethylbenzene	ND		0.500	1	09/24/2016 22:08	WG910138
Total Xylene	ND		1.50	1	09/24/2016 22:08	WG910138
Methyl tert-butyl ether	ND		1.00	1	09/24/2016 22:08	WG910138
(S) a,a,a-Trifluorotoluene(PID)	*119*		*55.0-122*		*09/24/2016 22:08*	WG910138

Volatile Organic Compounds (GC) by Method 8021

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	0.619		0.500	1	09/24/2016 22:32	WG910138
Toluene	ND		5.00	1	09/24/2016 22:32	WG910138
Ethylbenzene	2.01		0.500	1	09/24/2016 22:32	WG910138
Total Xylene	4.30	B	1.50	1	09/24/2016 22:32	WG910138
Methyl tert-butyl ether	ND		1.00	1	09/24/2016 22:32	WG910138
(S) a,a,a-Trifluorotoluene(PID)	*121*		*55.0-122*		*09/24/2016 22:32*	WG910138

Volatile Organic Compounds (GC) by Method 8021

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	77.8		0.500	1	09/24/2016 22:57	WG910138
Toluene	12.2		5.00	1	09/24/2016 22:57	WG910138
Ethylbenzene	12.6		0.500	1	09/24/2016 22:57	WG910138
Total Xylene	11.5		1.50	1	09/24/2016 22:57	WG910138
Methyl tert-butyl ether	3.43		1.00	1	09/24/2016 22:57	WG910138
(S) a,a,a-Trifluorotoluene(PID)	*128*	J1	*55.0-122*		*09/24/2016 22:57*	WG910138

Sample Narrative:

8021 L860259-13 WG910138: Surrogate failure due to sample matrix.

Volatile Organic Compounds (GC) by Method 8021

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		0.500	1	09/24/2016 15:16	WG910138
Toluene	ND		5.00	1	09/24/2016 15:16	WG910138
Ethylbenzene	ND		0.500	1	09/24/2016 15:16	WG910138
Total Xylene	ND		1.50	1	09/24/2016 15:16	WG910138
Methyl tert-butyl ether	ND		1.00	1	09/24/2016 15:16	WG910138
(S) a,a,a-Trifluorotoluene(PID)	*118*		*55.0-122*		*09/24/2016 15:16*	WG910138

Method Blank (MB)

(MB) R3166164-3 09/24/16 10:59

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Benzene	U		0.190	0.500
Toluene	0.412	J	0.180	5.00
Ethylbenzene	U		0.160	0.500
Total Xylene	U		0.510	1.50
Methyl tert-butyl ether	U		0.340	1.00
(S) a,a,a-Trifluorotoluene(PID)	*118*			*55.0-122*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3166164-1 09/24/16 00:47 • (LCSD) R3166164-2 09/24/16 09:22

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Benzene	50.0	48.5	50.0	97.0	99.9	70.0-130			2.94	20
Toluene	50.0	49.3	48.4	98.7	96.9	70.0-130			1.83	20
Ethylbenzene	50.0	52.3	51.7	105	103	70.0-130			1.25	20
Total Xylene	150	161	158	107	105	70.0-130			1.89	20
Methyl tert-butyl ether	50.0	50.0	52.4	100	105	70.0-130			4.78	20
(S) a,a,a-Trifluorotoluene(PID)				*116*	*114*	*55.0-122*				

L859993-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L859993-05 09/24/16 15:40 • (MS) R3166164-4 09/24/16 14:04 • (MSD) R3166164-5 09/24/16 14:28

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Benzene	50.0	1.17	27.0	28.0	51.7	53.7	1	57.2-131	J6	J6	3.69	20
Toluene	50.0	U	29.7	30.9	59.5	61.8	1	63.7-134	J6	J6	3.88	20
Ethylbenzene	50.0	0.183	38.0	38.4	75.7	76.5	1	67.5-135			1.09	20
Total Xylene	150	0.992	119	120	78.9	79.4	1	65.9-138			0.660	20
Methyl tert-butyl ether	50.0	3.36	43.4	46.3	80.0	85.8	1	52.4-137			6.48	20
(S) a,a,a-Trifluorotoluene(PID)					*119*	*119*		*55.0-122*				

Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**
***** Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Conneticut	PH-0197	North Carolina [1]	DW21704
Florida	E87487	North Carolina [2]	41
Georgia	NELAP	North Dakota	R-140
Georgia [1]	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky [1]	90010	South Dakota	n/a
Kentucky [2]	16	Tennessee [1 4]	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

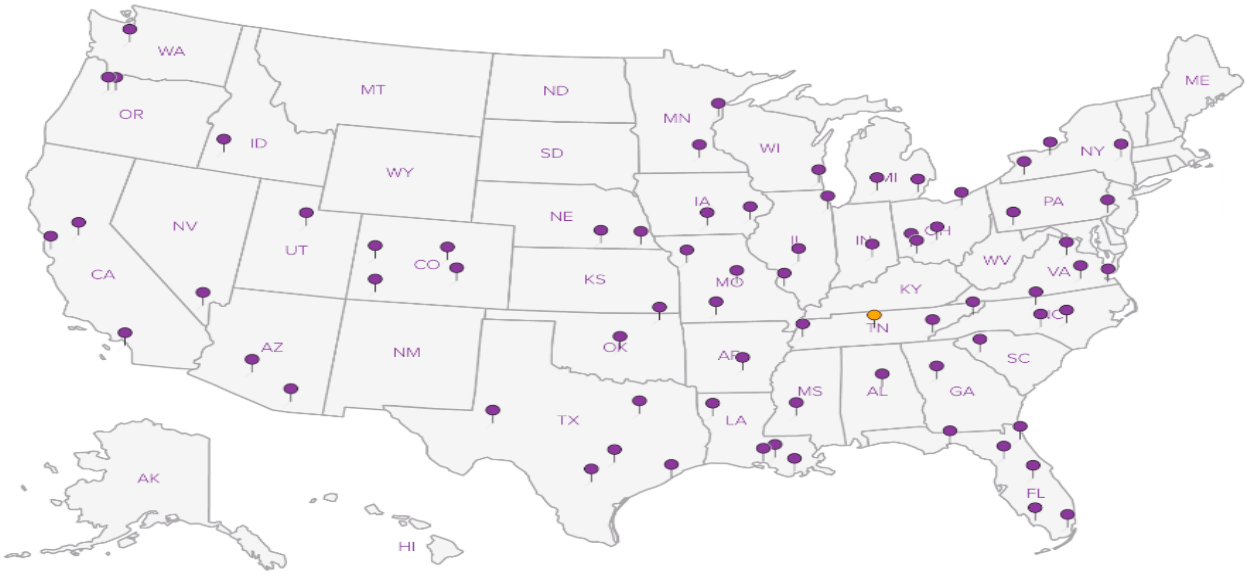
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



American Environmental -KY CKR

9127 Galene Drive, Suite D
Louisville, KY 40299

Billing Information:
Stacey Workman
8500 Georgetown Rd
Indianapolis, IN 46268

Report to: Mike Hightchew

Email To: mhightchew@aeckentucky.com

Project Description: Quarterly Monitoring - Circle K 86

City/State Collected:

Phone: 502-491-0144
Fax: 502-491-9271

Client Project # 264007

Lab Project # AMELKYCKR-264007

Collected by (print): Mike Hightchew

Site/Facility ID # 86

P.O. #

Collected by (signature):

Immediately Packed on Ice N ____ Y X

Rush? (Lab MUST Be Notified)
____ Same Day 200%
____ Next Day 100%
____ Two Day 50%
____ Three Day 25%

Date Results Needed

Email? ___No X__Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 1 of 2

ESC LABSCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 860259
G153

Acctnum: AMELKYCKR
Template: T41697
Prelogin: P566484
TSR: 206 - Jeff Carr
PB: 8-30-16 GM
Shipped Via: FedEX Ground

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	BTEXM (8021) 40mlAmb-HCl	BTEXM 40mlAmb-HCl-Blk	Rem./Contaminant	Sample # (lab only)
OW-1R	Grab	GW		9/16/16	920	2	X			01
OW-3	↓	GW		↓	810	2	X			02
OW-4R	↓	GW		↓	900	2	X			03
OW-6R	↓	GW		↓	830	2	X			04
~~OW-8~~		~~GW~~	—	—	—	~~2~~	~~X~~			
MW-1	Grab	GW		9/16/16	930	2	X			05
MW-2R	↓	GW		↓	910	2	X			06
MW-3R	↓	GW		↓	850	2	X			07
MW-4	↓	GW		↓	940	2	X			08
MW-5R	↓	GW		↓	900	2	X			09

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks: 6903 4751 5556

pH _____ Temp _____

Flow _____ Other _____

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
	9/16/16	5PM	Fedex 6903 4751 5556
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			Becky Mosley

Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ _____

Temp: 2.9 °C Bottles Received: 27

Date: 9-17-16 Time: 9:00

Condition: (lab use only) JW

COC Seal Intact: ___Y ___N ✓NA

pH Checked: NCF:

Chain of Custody Page 2 of 2

ESC LAB SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

American Environmental -KY CKR
9127 Galene Drive, Suite D
Louisville, KY 40299

Billing Information:
Stacey Workman
8500 Georgetown Rd
Indianapolis, IN 46268

Report to: Mike Hightchew
Email To: mhightchew@aeckentucky.com

Project Description: Quarterly Monitoring - Circle K 86
City/State Collected:

Phone: 502-491-0144
Fax: 502-491-9271
Client Project # 264007
Lab Project # AMELKYCKR-264007

Collected by (print): Mike Hightchew
Site/Facility ID # 86
P.O. #

Collected by (signature): [signature]
Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed
Email? ___No X__Yes
FAX? ___No ___Yes

L# 960259
Table #
Acctnum: AMELKYCKR
Template: T41697
Prelogin: P566484
TSR: 206 - Jeff Carr
PB: 8-30-16bm
Shipped Via: FedEX Ground

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	BTEXM (8021) 40mlAmb-HCl	BTEXM 40mlAmb-HCl-Blk	Rem./Contaminant	Sample # (lab only)
MW-6	Grab	GW		9/16/16	840	2	X			10
MW-7	↓	GW		↓	920	2	X			11
MW-8	↓	GW		↓	750	2	X			12
DUPLICATE		GW				2	X			13
		GW				2	X			
		GW				2	X			
TRIP BLANK		GW				1		X		14

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
[signature]	9/16/16	5PM	Fedex 6903 4751 5556
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			Rickey Mosby

Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ _____
Temp: 2.9 °C Bottles Received: 27
Date: 9-17-16 Time: 9:00

Condition: (lab use only) JW7
COC Seal Intact: ___Y ___N ✓NA
pH Checked: NCF:

ESC
L·A·B S·C·I·E·N·C·E·S
YOUR LAB OF CHOICE

Cooler Receipt Form

Client: AMELKYCKR		SDG#	860259
Cooler Received/Opened On: 9/17/16		Temperature Upon Receipt:	2.9 °c
Received By: Rickey Mosley			
Signature: Rickey Mosley			

Receipt Check List	Yes	No	N/A
Were custody seals on outside of cooler and intact?	✓		
Were custody papers properly filled out?	✓		
Did all bottles arrive in good condition?	✓		
Were correct bottles used for the analyses requested?	✓		
Was sufficient amount of sample sent in each bottle?	✓		
Were all applicable sample containers correctly preserved and checked for preservation? (Any not in accepted range noted on COC)			✓
If applicable, was an observable VOA headspace present?			✓
Non Conformance Generated. (If yes see attached NCF)			

APPENDIX C

Historical Groundwater Elevations
Historical Groundwater Analytical Results

Historical Groundwater Elevations Circle K #86 / BP#184					
Location	Date	Top of Casing Elevation (ft)	Depth to Groundwater* (ft)	Free Product Thickness (ft)	Groundwater Elevation (ft)
OW-1R	9/16/2016	99.64	17.02	0	82.62
	6/8/2016		16.67		82.97
	3/10/2016		16.80		82.84
	12/18/2015		17.30		82.34
	9/19/2015		17.03		82.61
	6/25/2015		16.81		82.83
	3/12/2015		17.67		81.97
	12/18/2014		17.70		81.94
	9/15/2014		17.56		82.08
	6/24/2014		17.18		82.46
	3/22/2014		17.55		82.09
	12/16/2013		18.07		81.57
	9/17/2013		18.29		81.35
	6/17/2013		17.92		81.72
	3/15/2013		18.43		81.21
	12/27/2012		18.71		80.93
	9/25/2012		18.52		81.12
	6/15/2012		17.85		81.79
	2/24/2012		17.88		81.76
	12/9/2011		18.12		81.52
	8/2/2011		17.66		81.98
	5/11/2011		17.68		81.96
	2/15/2011		19.03		80.61
	12/10/2010		18.75		80.89
	9/8/2010		18.20		81.44
	6/1/2010		17.69		81.95
	3/15/2010		17.69		81.95
	12/9/2009		17.67		81.97
	8/25/2009		17.91		81.73
	4/22/2009		18.87		80.77
	2/6/2009		19.05		80.59
	11/13/2008		18.72		80.92
	8/12/2008		17.86		81.78
	5/6/2008		17.12		82.52
	3/12/2008		18.30		81.34
	10/4/2007		18.94		80.70
	7/24/2007		18.42		81.22
	4/12/2007		17.85		81.79
	1/3/2007		17.80		81.84
	10/18/2006		17.82		81.82
	11/2/2005		18.36		81.28
	7/27/2005		17.73		81.91
	6/30/2005		17.56		82.08
	2/16/2005		17.20		82.44
	10/12/2004		18.09		81.55
	8/4/2004		17.71		81.93
	5/5/2004		17.66		81.98
	1/19/2004		17.87		81.77
	12/9/2003		16.97		82.67
	7/22/2003		17.57		82.07
	6/26/2003		17.43		82.21

Historical Groundwater Elevations Circle K #86 / BP#184					
Location	Date	Top of Casing Elevation (ft)	Depth to Groundwater^ (ft)	Free Product Thickness (ft)	Groundwater Elevation (ft)
OW-3	9/16/2016		15.73		83.91
	6/8/2016		15.82		83.23
	3/10/2016		16.01		83.04
	12/18/2015		16.47		82.58
	9/19/2015		16.25		82.80
	6/25/2015		16.05		83.00
	3/12/2015		16.88		82.17
	12/18/2014		16.90		82.15
	9/15/2014		16.73		82.32
	6/24/2014		16.40		82.65
	3/22/2014		16.81		82.24
	12/16/2013		17.28		81.77
	9/17/2013		17.46		81.59
	6/17/2013		17.00		82.05
	3/15/2013		17.66		81.39
	12/27/2012		17.93		81.12
	9/25/2012		17.75		81.30
	6/15/2012		17.08		81.97
	2/24/2012		17.08		81.97
	12/9/2011		17.32		81.73
	8/2/2011		16.87		82.18
	5/11/2011		16.92		82.13
	2/15/2011		18.24		80.81
	12/10/2010	99.05	17.98	0	81.07
	9/8/2010		17.41		81.64
	6/1/2010		16.89		82.16
	3/15/2010		16.88		82.17
	12/9/2009		16.88		82.17
	8/25/2009		17.12		81.93
	4/22/2009		18.08		80.97
	2/6/2009		18.25		80.80
	11/13/2008		17.97		81.08
	8/12/2008		17.06		81.99
	5/6/2008		16.30		82.75
	3/12/2008		17.50		81.55
	10/4/2007		18.12		80.93
	7/24/2007		17.63		81.42
	4/12/2007		17.05		82.00
	1/3/2007		17.02		82.03
	10/18/2006		17.01		82.04
	11/2/2005		16.92		82.13
	7/27/2005		16.29		82.76
	6/30/2005		16.16		82.89
	2/16/2005		15.77		83.28
	10/12/2004		--		--
	8/4/2004		--		--
	5/5/2004		--		--

Historical Groundwater Elevations Circle K #86 / BP#184					
Location	Date	Top of Casing Elevation (ft)	Depth to Groundwater^ (ft)	Free Product Thickness (ft)	Groundwater Elevation (ft)
OW-4R	9/16/2016		16.81		82.75
	6/8/2016		16.41		83.15
	3/10/2016		16.62		82.94
	12/18/2015		17.10		82.46
	9/19/2015		16.84		82.72
	6/25/2015		16.62		82.94
	3/12/2015		17.50		82.06
	12/18/2014		17.52		82.04
	9/15/2014		17.36		82.20
	6/24/2014		16.97		82.59
	3/22/2014		17.35		82.21
	12/16/2013		17.87		81.69
	9/17/2013		18.02		81.54
	6/17/2013		17.68		81.88
	3/15/2013		18.22		81.34
	12/27/2012		18.52		81.04
	9/25/2012		18.28		81.28
	6/15/2012		17.63		81.93
	2/24/2012		17.66		81.90
	12/9/2011		19.92		79.64
	8/2/2011		17.43		82.13
	5/11/2011		17.55		82.01
	2/15/2011		18.81		80.75
	12/10/2010		18.47		81.09
	9/8/2010		17.97		81.59
	6/1/2010	99.56	17.47	0	82.09
	3/15/2010		17.49		82.07
	12/9/2009		17.46		82.10
	8/25/2009		17.70		81.86
	4/22/2009		18.65		80.91
	2/6/2009		18.81		80.75
	11/13/2008		18.45		81.11
	8/12/2008		17.62		81.94
	5/6/2008		16.87		82.69
	3/12/2008		18.10		81.46
	10/4/2007		18.67		80.89
	7/24/2007		18.12		81.44
	4/12/2007		17.65		81.91
	1/3/2007		17.53		82.03
	10/18/2006		17.60		81.96
	11/2/2005		19.14		80.42
	7/27/2005		18.46		81.10
	6/30/2005		18.41		81.15
	2/16/2005		18.02		81.54
	10/12/2004		18.86		80.70
	8/4/2004		18.47		81.09
	5/5/2004		18.40		81.16
	1/19/2004		18.66		80.90
	12/9/2003		18.76		80.80
	7/22/2003		18.35		81.21
	6/26/2003		18.21		81.35

Historical Groundwater Elevations Circle K #86 / BP#184					
Location	Date	Top of Casing Elevation (ft)	Depth to Groundwater* (ft)	Free Product Thickness (ft)	Groundwater Elevation (ft)
OW-5R	WELL ABANDONED				
	4/22/2009	100.08	19.34	0	80.74
	2/6/2009		19.49		80.59
	11/13/2008		19.14		80.94
	8/12/2008		18.30		81.78
	5/6/2008		17.55		82.53
	3/12/2008		18.77		81.31
	10/4/2007		19.36		80.72
	7/24/2007		18.81		81.27
	4/12/2007		18.33		81.75
	1/3/2007		18.26		81.82
	10/18/2006		18.27		81.81
	11/2/2005		18.79		81.29
	7/27/2005		18.16		81.92
	6/30/2005		18.03		82.05
	2/16/2005		17.65		82.43
	10/12/2004		18.53		81.55
	8/4/2004		18.15		81.93
	5/5/2004		18.11		81.97
	1/19/2004		18.31		81.77
	12/9/2003		18.82		81.26
	7/22/2003		18.00		82.08
	6/26/2003		17.88		82.20
OW-6R	9/16/2016	98.70	16.19	0	82.51
	6/8/2016		15.77		82.93
	3/10/2016		16.00		82.70
	12/18/2015		16.70		82.00
	9/19/2015		16.24		82.46
	6/25/2015		16.02		82.68
	3/12/2015		16.85		81.85
	12/18/2014		16.94		81.76
	9/15/2014		16.73		81.97
	6/24/2014		16.35		82.35
	3/22/2014		16.76		81.94
	1/17/1900		17.51		81.19
	9/17/2013		17.47		81.23
	6/17/2013		17.11		81.59
	3/15/2013		17.65		81.05
	12/27/2012		17.91		80.79
	9/25/2012		17.74		80.96
	6/15/2012		17.04		81.66
	2/24/2012		17.05		81.65
	12/9/2011		17.33		81.37
	8/2/2011		16.87		81.83
	5/11/2011		16.88		81.82
	2/15/2011		18.23		80.47
	12/10/2010		17.94		80.76
	9/8/2010		17.41		81.29
	6/1/2010		16.87		81.83
	3/15/2010		16.90		81.80
	12/9/2009		16.88		81.82
	8/25/2009		17.12		81.58
	4/22/2009		18.07		80.63
	2/6/2009		18.25		80.45
	11/13/2008		17.97		80.73
	8/12/2008		17.07		81.63
	5/6/2008		16.31		82.39
	3/12/2008		17.50		81.20
	10/4/2007		18.12		80.58
	7/24/2007		17.57		81.13
	4/12/2007		17.03		81.67
	1/3/2007		16.97		81.73
	10/18/2006		17.05		81.65
	11/2/2005		17.53		81.17
	7/27/2005		16.89		81.81
	6/30/2005		16.80		81.90
	2/16/2005		16.46		82.24
	10/12/2004		17.29		81.41
	8/4/2004		16.93		81.77
	5/5/2004		16.86		81.84
	1/19/2004		17.05		81.65
	12/9/2003		17.14		81.56
	7/22/2003		16.78		81.92
	6/26/2003		16.64		82.06

Historical Groundwater Elevations Circle K #86 / BP#184					
Location	Date	Top of Casing Elevation (ft)	Depth to Groundwater* (ft)	Free Product Thickness (ft)	Groundwater Elevation (ft)
OW-8	9/16/2016				
	6/8/2016				
	3/10/2016		Well Inaccessible		
	12/18/2015				
	9/19/2015				
	6/25/2015		16.26		82.62
	3/12/2015		17.11		81.77
	12/18/2014		17.15		81.73
	9/15/2014		17.00		81.88
	6/24/2014		16.59		82.29
	3/22/2014		17.02		81.86
	12/16/2013		17.49		81.39
	9/17/2013		17.71		81.17
	6/17/2013		17.22		81.66
	3/15/2013		17.88	0	81.00
	12/27/2012		18.14		80.74
	9/25/2012		17.93		80.95
	6/15/2012		17.28		81.60
	2/24/2012		17.30		81.58
	12/9/2011		17.57		81.31
	8/2/2011		17.08		81.80
	5/11/2011		17.15		81.73
	2/15/2011		18.46		80.42
	12/10/2010		18.14		80.74
	9/8/2010		Well Inaccessible		
	6/1/2010	98.88	17.10		81.78
	3/15/2010		17.13		81.75
	12/9/2009		17.10		81.78
	8/25/2009		17.35		81.53
	4/22/2009		18.31		80.57
	2/6/2009		18.47		80.41
	11/13/2008		18.12		80.76
	8/12/2008		17.28	0	81.60
	5/6/2008		16.55		82.33
	3/12/2008		17.73		81.15
	10/4/2007		18.34		80.54
	7/24/2007		17.78		81.10
	4/12/2007		17.23		81.65
	1/3/2007		17.20		81.68
	10/18/2006		17.27		81.61
	11/2/2005				
	7/27/2005				
	6/30/2005				
	2/16/2005		Well Inaccessible		
	10/12/2004				
	8/4/2004				
	5/5/2004				
	1/19/2004		17.37		81.51
	12/9/2003		17.51	0	81.37
	7/22/2003		17.06		81.82
	6/26/2003		Well Inaccessible		

Historical Groundwater Elevations Circle K #86 / BP#184					
Location	Date	Top of Casing Elevation (ft)	Depth to Groundwater* (ft)	Free Product Thickness (ft)	Groundwater Elevation (ft)
MW-1 (off-site)	9/16/2016	98.67	16.54	0	82.13
	6/8/2016		16.11		82.56
	3/10/2016		16.31		82.36
	12/18/2015		16.78		81.89
	9/19/2015		16.57		82.10
	6/25/2015		16.37		82.30
	3/12/2015		17.18		81.49
	12/18/2014		17.20		81.47
	9/15/2014		17.07		81.60
	6/24/2014		16.69		81.98
	3/22/2014		17.02		81.65
	12/16/2013		17.52		81.15
	9/17/2013		17.78		80.89
	6/17/2013		17.34		81.33
	3/15/2013		17.91		80.76
	12/27/2012		18.21		80.46
	9/25/2012		18.01		80.66
	6/15/2012		17.35		81.32
	2/24/2012		17.32		81.35
	12/9/2011		17.58		81.09
	8/2/2011		17.15		81.52
	5/11/2011		17.08		81.59
	2/15/2011		18.50		80.17
	12/10/2010		18.22		80.45
	9/8/2010		17.69		80.98
	6/1/2010		17.17		81.50
	3/15/2010		17.18		81.49
	12/9/2009		17.15		81.52
	8/25/2009		17.42		81.25
	4/22/2009		18.33		80.34
	2/6/2009		18.51		80.16
	11/13/2008		18.25		80.42
	8/12/2008		17.36		81.31
	5/6/2008		16.63		82.04
	3/12/2008		17.75		80.92
	10/4/2007		18.48		80.19
	7/24/2007		17.93		80.74
	4/12/2007		17.28		81.39
	1/3/2007		17.26		81.41
	10/18/2006		17.34		81.33

Historical Groundwater Elevations Circle K #86 / BP#184					
Location	Date	Top of Casing Elevation (ft)	Depth to Groundwater* (ft)	Free Product Thickness (ft)	Groundwater Elevation (ft)
MW-2R (off-site)	9/16/2016	97.39	15.25	0	82.14
	6/8/2016		14.23		83.16
	3/10/2016		15.00		82.39
	12/18/2015		15.54		81.85
	9/19/2015		15.31		82.08
	6/25/2015		15.04		82.35
	3/12/2015		16.74		80.65
	12/18/2014		15.91		81.48
	9/15/2014		15.76		81.63
	6/24/2014		15.37		82.02
	3/22/2014		15.74		81.65
	12/16/2013		16.24		81.15
	9/17/2013	Inaccessible due to van parked over well			
	6/17/2013	97.39	16.11	0	81.28
	3/15/2013		16.62		80.77
	12/27/2012		16.91		80.48
	9/25/2012		16.67		80.72
	6/15/2012		16.05		81.34
	2/24/2012		16.07		81.32
	12/9/2011		16.33		81.06
	8/2/2011		15.88		81.51
	5/11/2011		15.84		81.55
	2/15/2011		17.25		80.14
	12/10/2010		16.94		80.45
	9/8/2010		16.43		80.96
	6/1/2010		15.90		81.49
	3/15/2010		15.89		81.50
	12/9/2009		15.87		81.52
	8/25/2009		16.15		81.24
	4/22/2009		17.07		80.32
	2/6/2009		17.24		80.15
	11/13/2008		16.91		80.48
	8/12/2008		16.11		81.28
	5/6/2008		15.38		82.01
	3/12/2008		16.49		80.90
	10/4/2007		17.14		80.25
	7/24/2007		16.59		80.80
	4/12/2007		16.00		81.39
	1/3/2007		15.95		81.44
	10/18/2006		16.10		81.29

Historical Groundwater Elevations Circle K #86 / BP#184					
Location	Date	Top of Casing Elevation (ft)	Depth to Groundwater* (ft)	Free Product Thickness (ft)	Groundwater Elevation (ft)
MW-3R (off-site)	9/16/2016	98.13	15.75	0	82.38
	6/8/2016		15.35		82.78
	3/10/2016		15.54		82.59
	12/18/2015		16.06		82.07
	9/19/2015		15.81		82.32
	6/25/2015		15.60		82.53
	3/12/2015		16.44		81.69
	12/18/2014		16.46		81.67
	9/15/2014		16.32		81.81
	6/24/2014		15.91		82.22
	3/22/2014		16.30		81.83
	12/16/2013		16.82		81.31
	9/17/2013		17.05		81.08
	6/17/2013		16.73		81.40
	3/15/2013		17.21		80.92
	12/27/2012		17.49		80.64
	9/25/2012		17.29		80.84
	6/15/2012		16.62		81.51
	2/24/2012		16.62		81.51
	12/9/2011		16.87		81.26
	8/2/2011		16.40		81.73
	5/11/2011		16.42		81.71
	2/15/2011		17.79		80.34
	12/10/2010		17.46		80.67
	9/8/2010		16.96		81.17
	6/1/2010		16.43		81.70
	3/15/2010		16.45		81.68
	12/9/2009		16.43		81.70
	8/25/2009		16.68		81.45

Historical Groundwater Elevations Circle K #86 / BP#184					
Location	Date	Top of Casing Elevation (ft)	Depth to Groundwater* (ft)	Free Product Thickness (ft)	Groundwater Elevation (ft)
MW-3 (off-site)	WELL ABANDONED				
	4/22/2009	98.35	17.82	0	80.53
	2/6/2009		17.99		80.36
	11/13/2008		17.72		80.63
	8/12/2008		16.83		81.52
	5/6/2008		16.05		82.30
	3/12/2008		17.25		81.10
	10/4/2007		17.94		80.41
	7/24/2007		17.39		80.96
	4/12/2007		16.76		81.59
	1/3/2007		16.72		81.63
	10/18/2006		16.82		81.53
	11/2/2005		17.26		81.09
	7/27/2005		16.90		81.45
	6/30/2005		16.05		82.30
	2/16/2005		16.10		82.25
	10/12/2004		17.00		81.35
	8/4/2004		16.65		81.70
	5/5/2004		16.59		81.76
	1/19/2004		16.78		81.57
	12/9/2003		16.93		81.42
	7/22/2003		16.51		81.84
	6/26/2003		16.37		81.98
MW-4 (off-site)	9/16/2016	98.96	16.60	0	82.36
	6/8/2016		16.19		82.77
	3/10/2016		16.39		82.57
	12/18/2015		16.88		82.08
	9/19/2015		16.65		82.31
	6/25/2015		16.40		82.56
	3/12/2015		17.28		81.68
	12/18/2014		17.30		81.66
	9/15/2014		17.01		81.95
	6/24/2014		16.72		82.24
	3/22/2014		17.17		81.79
	12/16/2013		17.62		81.34
	9/17/2013		17.82		81.14
	6/17/2013		17.39		81.57
	3/15/2013		18.00		80.96
	12/27/2012		18.28		80.68
	9/25/2012		18.11		80.85
	6/15/2012		17.43		81.53
	2/24/2012		17.43		81.53
	12/9/2011		17.69		81.27
	8/2/2011		17.24		81.72
	5/11/2011		17.22		81.74
	2/15/2011		18.60		80.36
	12/10/2010		18.32		80.64
	9/8/2010		17.78		81.18
	6/1/2010		17.26		81.70
	3/15/2010		17.27		81.69
	12/9/2009		17.25		81.71
	8/25/2009		17.51		81.45
	4/22/2009		18.43		80.53
	2/6/2009		18.62		80.34
	11/13/2008		18.34		80.62
	8/12/2008		17.45		81.51
	5/6/2008		16.72		82.24
	3/12/2008		17.86		81.10
	10/4/2007		18.56		80.40
	7/24/2007		17.94		81.02
	4/12/2007		17.38		81.58
	1/3/2007		17.31		81.65

Historical Groundwater Elevations Circle K #86 / BP#184					
Location	Date	Top of Casing Elevation (ft)	Depth to Groundwater* (ft)	Free Product Thickness (ft)	Groundwater Elevation (ft)
MW-5R (off-site)	9/16/2016	96.90	14.60	0	82.30
	6/8/2016		14.84		82.06
	3/10/2016		14.42		82.48
	12/18/2015		14.92		81.98
	9/19/2015		14.67		82.23
	6/25/2015		14.43		82.47
	3/12/2015		15.24		81.66
	12/18/2014		15.32		81.58
	9/15/2014		15.11		81.79
	6/24/2014		14.71		82.19
	3/22/2014		15.11		81.79
	12/16/2013		15.64		81.26
	9/17/2013		15.83		81.07
	6/17/2013		15.51		81.39
	3/15/2013		16.00		80.90
	12/27/2012		16.30		80.60
	9/25/2012		16.08		80.82
	6/15/2012		15.42		81.48
	2/24/2012		15.44		81.46
	12/9/2011		15.70		81.20
	8/2/2011		15.23		81.67
	5/11/2011		15.26		81.64
	2/15/2011		16.61		80.29
	12/10/2010		16.31		80.59
	9/8/2010		15.78		81.12
	6/1/2010		15.24		81.66
	3/15/2010		15.27		81.63
	12/9/2009		15.22		81.68
	8/25/2009		15.51		81.39
	4/22/2009		16.43		80.47
	2/6/2009		16.62		80.28
	11/13/2008		16.31		80.59
	8/12/2008		15.45		81.45
	5/6/2008		14.70		82.20
	3/12/2008		15.87		81.03
	10/4/2007		16.53		80.37
	7/24/2007		15.97		80.93
	4/12/2007		15.40		81.50
	1/3/2007		15.42		81.48
	10/18/2006		15.52		81.38

Historical Groundwater Elevations Circle K #86 / BP#184					
Location	Date	Top of Casing Elevation (ft)	Depth to Groundwater* (ft)	Free Product Thickness (ft)	Groundwater Elevation (ft)
MW-5 (off-site)	WELL DESTROYED				
	11/2/2005	WELL INACCESSIBLE			
	7/27/2005				
	6/30/2005	97.34	15.70	0	81.64
	2/16/2005	97.34	15.31	0	82.03
	10/12/2004	WELL	--	DRY	--
	8/4/2004	97.34	--	0	--
	5/5/2004	97.34	--	0	--
MW-6	9/16/2016	98.29	15.77	0	82.52
	6/8/2016		15.38		82.91
	3/10/2016		15.61		82.68
	12/18/2015		16.50		81.79
	9/19/2015		15.84		82.45
	6/25/2015		16.63		81.66
	3/12/2015		16.47		81.82
	12/18/2014		16.52		81.77
	9/15/2014		16.35		81.94
	6/24/2014		15.97		82.32
	3/22/2014		16.37		81.92
	12/16/2013		16.85		81.44
	9/17/2013		17.08		81.21
	6/17/2013		16.89		81.40
	3/15/2013		17.22		81.07
	12/27/2012		17.54		80.75
	9/25/2012		17.32		80.97
	6/15/2012		16.68		81.61
	2/24/2012		16.69		81.60
	12/9/2011		16.92		81.37
	8/2/2011		16.47		81.82
	5/11/2011		16.49		81.80
	2/15/2011		17.84		80.45
	12/10/2010		17.54		80.75
	9/8/2010		17.01		81.28
	6/1/2010		16.48		81.81
	3/15/2010		16.50		81.79
	12/9/2009		16.48		81.81
	8/25/2009		16.73		81.56
	4/22/2009		17.67		80.62
	2/6/2009		17.85		80.44
	11/13/2008		17.52		80.77
	8/12/2008		16.68		81.61
	5/6/2008		15.92		82.37
	3/12/2008		17.10		81.19
	10/4/2007		17.73		80.56
	7/24/2007		17.19		81.10
	4/12/2007		16.68		81.61
	1/3/2007		16.56		81.73
	10/18/2006		16.71		81.58

Historical Groundwater Elevations Circle K #86 / BP#184					
Location	Date	Top of Casing Elevation (ft)	Depth to Groundwater* (ft)	Free Product Thickness (ft)	Groundwater Elevation (ft)
MW-7 (off-site)	9/16/2016	96.33	14.27	0	82.06
	6/8/2016		13.90		82.43
	3/10/2016		14.07		82.26
	12/18/2015		14.57		81.76
	9/19/2015		Car over well		Car over well
	6/25/2015		14.10		82.23
	3/12/2015		14.88		81.45
	12/18/2014		14.95		81.38
	9/15/2014		14.80		81.53
	6/24/2014		14.37		81.96
	3/22/2014		14.75		81.58
	12/16/2013		15.50		80.83
	9/17/2013		15.50		80.83
	6/17/2013		14.99		81.34
	3/15/2013		Well Inaccessible		
	12/27/2012		15.93	0	80.40
	9/25/2012		Well Inaccessible		
	6/15/2012		15.05	0	81.28
	2/24/2012		Well Inaccessible		
	12/9/2011		15.33	0	81.00
	8/2/2011		14.89		81.44
	5/11/2011		14.83		81.50
	2/15/2011		16.25		80.08
	12/10/2010		15.99		80.34
	9/8/2010		15.45		80.88
	6/1/2010		14.90		81.43
	3/15/2010		14.93		81.40
	12/9/2009		14.88		81.45
	8/25/2009		15.16		81.17
	4/22/2009		16.08		80.25
	2/6/2009		16.25		80.08
	11/13/2008		16.00		80.33
	8/12/2008		15.13		81.20
	5/6/2008		14.42		81.91
	3/12/2008		15.51		80.82
	10/4/2007		16.17		80.16
	7/24/2007		15.66		80.67
	5/31/2007		15.23		81.10
MW-8	9/16/2016	99.86	17.20	0	82.66
	6/8/2016		16.84		83.02
	3/10/2016		17.07		82.79
	12/18/2015		17.50		82.36
	9/19/2015		17.26		82.60
	6/25/2015		17.07		82.79
	3/12/2015		17.90		81.96
	12/18/2014		17.96		81.90
	9/15/2014		17.78		82.08
	6/24/2014		17.37		82.49
	3/22/2014		17.78		82.08
	12/16/2013		18.30		81.56
	9/17/2013		18.48		81.38
	6/17/2013		18.15		81.71
	3/15/2013		18.64		81.22
	12/27/2012		18.93		80.93
	9/25/2012		17.81		82.05
	6/15/2012		18.05		81.81
	2/24/2012		18.10		81.76
	12/9/2011		18.36		81.50
	8/2/2011		17.87		81.99
	5/11/2011		17.97		81.89
	2/15/2011		19.25		80.61
	12/10/2010		18.95		80.91
	9/8/2010		18.41		81.45
	6/1/2010		17.90		81.96
	3/15/2010		17.93		81.93
	12/9/2009		17.90		81.96
	8/25/2009		18.14		81.72
*Measured from top of casing					

Historical Groundwater Analyses Results Circle K #86 / BP #184 Concentrations in parts per billion, ppb						
Location	**Date**	**Benzene**	**Toluene**	**Ethylbenzene**	**Xylenes**	**MTBE**
OW-1R	9/16/2016	<0.5	<5	<0.5	<1.5	<1
	6/8/2016	<0.5	<5	<0.5	<1.5	<1
	3/10/2016	<0.5	<5	<0.5	<1.5	<1
	12/18/2015	<0.5	<5	<0.5	<1.5	<1
	9/19/2015	<0.5	<5	<0.5	<1.5	<1
	6/25/2015	<0.5	<5	<0.5	<1.5	<1
	3/12/2015	<0.5	<5	<0.5	<1.5	<1
	12/18/2014	<0.5	<5	<0.5	<1.5	<1
	9/15/2014	<0.5	<5	<0.5	<1.5	<1
	6/24/2014	<0.5	<5	<0.5	<1.5	<1
	3/22/2014	<0.5	<5	<0.5	<1.5	<1
	12/16/2013	<0.5	<5	<0.5	<1.5	<1
	9/17/2013	<0.5	<5	<0.5	<1.5	<1
	6/17/2013	<0.5	<5	<0.5	<1.5	<1
	3/15/2013	<0.5	<5	<0.5	<1.5	<1
	12/27/2012	<0.5	<5	<0.5	<1.5	<1
	9/25/2012	<0.5	<5	<0.5	<1.5	<1
	6/15/2012	<0.5	<5	<0.5	<1.5	<1
	2/24/2012	<0.5	<5	<0.5	<1.5	<1
	12/9/2011	1.2	<5	<0.5	<1.5	<1
	8/2/2011	0.51	<5	<0.5	<1.5	<1
	5/11/2011	3.9	<5	<0.5	<1.5	<1
	2/15/2011	1.7	<5	<0.5	<1.5	<1
	12/10/2010	0.58	<5	<0.5	<1.5	<1
	9/8/2010	<0.5	<5	<0.5	<1.5	<1
	6/1/2010	<0.5	<5	<0.5	<1.5	<1
	3/15/2010	0.8	<5	<0.5	<1.5	<1
	12/9/2009	<0.5	<5	<0.5	<1.5	<1
	8/25/2009	<0.5	<5	<0.5	<1.5	<1
	4/22/2009	<0.5	<5	<0.5	<1.5	<1
	2/6/2009	<0.5	<5	<0.5	<1.5	<1
	11/13/2008	<0.5	<5	<0.5	<1.5	<1
	8/12/2008	<0.5	<5	<0.5	<1.5	<1
	5/6/2008	<0.5	<5	<0.5	<1.5	<1
	3/12/2008	<0.5	12	<0.5	<1.5	<1
	10/4/2007	<0.5	<5	<0.5	<1.5	<1
	7/24/2007	<0.5	<5	<0.5	<1.5	<1
	4/12/2007	<0.5	<5	<0.5	<1.5	<1
	1/3/2007	<0.5	<5	1.1	2.5	<1
	10/18/2006	<0.5	<5	<0.5	<1.5	<1
	11/2/2005	*7.6*	<5	<5	<10	5.3
	7/27/2005	<1	<5	<5	<10	<4
	6/30/2005	<1	<5	<5	<10	<4
	2/16/2005	<1	<5	<5	<10	<4
	10/12/2004	<1	<5	<5	<10	<4
	8/4/2004	<1	<5	<5	<10	<4
	5/5/2004	<1	<5	<5	<10	<4
	1/19/2004	<1	<5	<5	<10	<4
	12/9/2003	<1	<5	<5	<10	<4
	7/22/2003	<1	<5	<5	<10	<4
	6/26/2003	<1	<5	<5	<10	<4

Historical Groundwater Analyses Results Circle K #86 / BP #184 Concentrations in parts per billion, ppb						
Location	**Date**	**Benzene**	**Toluene**	**Ethylbenzene**	**Xylenes**	**MTBE**
OW-3	9/16/2016	<0.5	<5	<0.5	<1.5	<1
	6/8/2016	<0.5	<5	<0.5	<1.5	<1
	3/10/2016	<0.5	<5	<0.5	<1.5	<1
	12/18/2015	<0.5	<5	<0.5	<1.5	<1
	9/19/2015	<0.5	<5	<0.5	<1.5	<1
	6/25/2015	<0.5	<5	<0.5	<1.5	<1
	3/12/2015	<0.5	<5	<0.5	<1.5	<1
	12/18/2014	<0.5	<5	<0.5	<1.5	<1
	9/15/2014	<0.5	<5	<0.5	<1.5	<1
	6/24/2014	<0.5	<5	<0.5	<1.5	<1
	3/22/2014	<0.5	<5	<0.5	<1.5	<1
	12/16/2013	<0.5	<5	<0.5	<1.5	<1
	9/17/2013	<0.5	<5	<0.5	<1.5	<1
	6/17/2013	<0.5	<5	<0.5	<1.5	<1
	3/15/2013	<0.5	<5	<0.5	<1.5	<1
	12/27/2012	<0.5	<5	<0.5	<1.5	<1
	9/25/2012	<0.5	<5	<0.5	<1.5	<1
	6/15/2012	<0.5	<5	<0.5	<1.5	<1
	2/24/2012	<0.5	<5	<0.5	<1.5	<1
	12/9/2011	<0.5	<5	<0.5	<1.5	<1
	8/2/2011	<0.5	<5	<0.5	<1.5	<1
	5/11/2011	<0.5	<5	<0.5	<1.5	<1
	2/15/2011	<0.5	<5	<0.5	<1.5	<1
	12/10/2010	<0.5	<5	<0.5	<1.5	<1
	9/8/2010	<0.5	<5	<0.5	<1.5	<1
	6/1/2010	<0.5	<5	<0.5	<1.5	<1
	3/15/2010	<0.5	<5	<0.5	<1.5	<1
	12/9/2009	<0.5	<5	<0.5	<1.5	<1
	8/25/2009	<0.5	<5	<0.5	<1.5	<1
	4/22/2009	<0.5	<5	<0.5	<1.5	<1
	2/6/2009	<0.5	<5	<0.5	<1.5	<1
	11/13/2008	<0.5	<5	<0.5	<1.5	<1
	8/12/2008	<0.5	<5	<0.5	<1.5	<1
	5/6/2008	<0.5	<5	<0.5	<1.5	<1
	3/12/2008	<0.5	7.9	<0.5	<1.5	<1
	10/4/2007	**64**	<5	<0.5	<1.5	<1
	7/24/2007	<0.5	<5	<0.5	<1.5	<1
	4/12/2007	<0.5	<5	<0.5	<1.5	<1
	1/3/2007	<0.5	<5	<0.5	<1.5	<1
	10/18/2006	<0.5	<5	<0.5	<1.5	<1
	11/2/2005	1.4	<5	<5	<10	<4
	7/27/2005	<1	<5	<5	<10	<4
	6/30/2005	<1	<5	<5	<10	<4
	2/16/2005	<1	<5	<5	<10	<4
	10/12/2004	<1	<5	<5	<10	<4
	8/4/2004	<1	<5	<5	<10	<4
	5/5/2004	<1	<5	<5	<10	<4

Historical Groundwater Analyses Results Circle K #86 / BP #184 Concentrations in parts per billion, ppb						
Location	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
OW-4R	9/16/2016	0.907	<5	1.58	4.99	<1
	6/8/2016	1.59	<5	1.31	3.06	<1
	3/10/2016	0.582	<5	1.59	3.4	<1
	12/18/2015	<1	<5	<5	<10	<1
	9/19/2015	1.16	<5	0.692	1.94	<1
	6/25/2015	0.768	<5	1.23	2.54	<1
	3/12/2015	0.81	<5	<5	3.1	<1
	12/18/2014	1.1	<5	1.6	4.5	<1
	9/15/2014	0.55	<5	1.3	2.9	<1
	6/24/2014	0.73	<5	<5	3	<1
	3/22/2014	<0.5	6.3	4.2	12	1.9
	12/16/2013	2.2	<5	2.6	7.5	<1
	9/17/2013	3	<5	2.9	9.1	<1
	6/17/2013	<0.5	<5	1.9	4.2	<1
	3/15/2013	7.2	5.9	2.2	3.1	1.5
	12/27/2012	4.3	<5	6.3	10	2.9
	9/25/2012	3.6	<5	1.4	2.9	1
	6/15/2012	1.6	<5	3.6	3.5	<1
	2/24/2012	*8.5*	<5	4.8	8.3	3.4
	12/9/2011	<0.5	<5	1	1.9	<1.0
	8/2/2011	2.4	<5	1.4	2.3	<1
	5/11/2011	*6.5*	<5	2.2	1.7	2.2
	2/15/2011	*37*	5.4	14	24	13
	12/10/2010	*8.1*	9.3	3.6	3.2	3.2
	9/8/2010	1.2	<5	3.3	6.4	<1
	6/1/2010	1.2	<5	0.68	2.5	<1
	3/15/2010	<0.5	<5	1.1	1.5	1
	12/9/2009	<0.5	<5	2.6	2.9	2.5
	8/25/2009	4.2	<5	2.5	3.6	1.2
	4/22/2009	*32*	<5	8.4	16	9.2
	2/6/2009	*27*	<50	<5	<15	<10
	11/13/2008	*16*	<50	<5	24	<10
	8/12/2008	1.6	<5	0.5	1.7	<1
	5/6/2008	<0.5	<5	<0.5	<1.5	<1
	3/12/2008	*5*	9.2	1.4	<1.5	2
	10/4/2007	1.3	<5	<0.5	1.9	<1
	7/24/2007	<0.5	<5	2.2	1.5	2
	4/12/2007	4	<5	4.3	5.5	1.7
	1/3/2007	<0.5	<5	1.4	2.3	2.8
	10/18/2006	2.1	<5	5.7	9.6	2.7
	11/2/2005	2.5	6	<5	<10	<4
	7/27/2005	2.7	6.3	<5	<10	<4
	6/30/2005	2.6	6.8	5.9	<10	4.5
	2/16/2005	1.2	<5	<5	<10	<4
	10/12/2004	1.4	9.4	10	<10	<4
	8/4/2004	<1	5	7.1	10	<4
	5/5/2004	1.8	8.4	15	12	<4
	1/19/2004	1.7	6.6	14	<10	<4
	12/9/2003	2.1	19	20	31	7.5
	7/22/2003	*12*	30	45	<40	<16
	6/26/2003	<4	<20	<16	<40	<16

Historical Groundwater Analyses Results Circle K #86 / BP #184 Concentrations in parts per billion, ppb						
Location	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
OW-5R		WELL ABANDONED				
	4/22/2009	4.7	<5	3.4	6.1	3
	2/6/2009	2.9	<5	2.2	5	1.7
	11/13/2008	*15*	<5	2.5	7.6	<1
	8/12/2008	2.5	<5	1	7.2	2.9
	5/6/2008	1	<5	1.2	15	3.3
	3/12/2008	4.4	5.4	0.9	2.2	6.9
	10/4/2007	**1,600**	<120	<12	<38	<25
	7/24/2007	0.86	<5	1.4	<1.5	4
	4/12/2007	3.2	<5	3.1	6	4.6
	1/3/2007	0.51	<5	1.2	2.9	15
	10/18/2006	*8*	<5	3.8	16	13
	11/2/2005	**650**	17	7.1	<10	15
	7/27/2005	*20*	<5	<5	<10	<4
	6/30/2005	*23*	<5	6.3	<10	8.5
	2/16/2005	**71**	<5	<5	<10	13
	10/12/2004	1.7	<5	<5	<10	<4
	8/4/2004	<1	<5	<5	<10	<4
	5/5/2004	1.9	<5	<5	<10	5.3
	1/19/2004	<5	<5	<5	<10	<4
	12/9/2003	<5	<5	<5	<10	<5
	7/22/2003	<5	<5	<5	<10	<5
	6/26/2003	<5	<5	<5	<10	<5
OW-6R	9/16/2016	<0.5	<5	<0.5	<1.5	<1
	6/8/2016	<0.5	<5	<0.5	<1.5	<1
	3/10/2016	<0.5	<5	<0.5	<1.5	<1
	12/18/2015	<0.5	<5	<0.5	<1.5	<1
	9/19/2015	<0.5	<5	<0.5	<1.5	<1
	6/25/2015	<0.5	<5	<0.5	<1.5	<1
	3/12/2015	<0.5	<5	<0.5	<1.5	<1
	12/18/2014	<0.5	<5	<0.5	<1.5	<1
	9/15/2014	<0.5	<5	<0.5	<1.5	<1
	6/24/2014	<0.5	<5	<0.5	<1.5	<1
	3/22/2014	<0.5	<5	<0.5	<1.5	<1
	12/16/2013	<0.5	<5	<0.5	<1.5	<1
	9/17/2013	0.56	<5	<0.5	<1.5	<1
	6/17/2013	<0.5	<5	<0.5	<1.5	<1
	3/15/2013	0.55	<5	0.54	1.7	<1
	12/27/2012	3.3	<5	0.6	1.5	<1
	9/25/2012	2.2	<5	<0.5	<1.5	<1
	6/15/2012	1	<5	<0.5	<1.5	<1
	2/24/2012	<0.5	<5	<0.5	<1.5	<1
	12/9/2011	4.2	<5	<0.5	<1.5	<1
	8/2/2011	4.9	<5	<0.5	<1.5	<1
	5/11/2011	3.5	<5	<0.5	<1.5	<1
	2/15/2011	*17*	<5	<0.5	<1.5	<1
	12/10/2010	*21*	<5	<0.5	<1.5	1.4
	9/8/2010	1.6	<5	<0.5	<1.5	<1
	6/1/2010	2.4	<5	<0.5	<1.5	<1
	3/15/2010	4.3	<5	<0.5	<1.5	<1
	12/9/2009	0.76	<5	<0.5	<1.5	<1
	8/25/2009	<0.5	<5	<0.5	<1.5	<1
	4/22/2009	<0.5	<5	<0.5	<1.5	<1
	2/6/2009	<0.5	<5	<0.5	<1.5	<1
	11/13/2008	*5.4*	<5	0.6	<1.5	1.8
	8/12/2008	2.4	<5	<0.5	<1.5	<1
	5/6/2008	*5.8*	<5	<0.5	<1.5	<1
	3/12/2008	2.4	<5	<0.5	<1.5	<1
	10/4/2007	0.56	<5	<0.5	<1.5	<1
	7/24/2007	1.3	<5	<0.5	<1.5	1.2
	4/12/2007	<0.5	<5	<0.5	<1.5	<1
	1/3/2007	<0.5	<5	<0.5	<1.5	<1
	10/18/2006	1.1	<5	0.6	1.7	1.4
	11/2/2005	**74**	<5	<5	<10	4.7
	7/27/2005	*5.8*	<5	<5	<10	<4
	6/30/2005	*8.9*	<5	<5	<10	<4
	2/16/2005	*22*	<5	<5	<10	<4
	10/12/2004	<1	<5	<5	<10	<4
	8/4/2004	<1	<5	<5	<10	<4
	5/5/2004	<1	<5	<5	<10	<4
	1/19/2004	<1	<5	<5	<10	<4
	12/9/2003	<1	<5	<5	<10	<4
	7/22/2003	2.4	<5	<5	<10	<4
	6/26/2003	<1	<5	<5	<10	<4

Historical Groundwater Analyses Results Circle K #86 / BP #184 Concentrations in parts per billion, ppb						
Location	**Date**	**Benzene**	**Toluene**	**Ethylbenzene**	**Xylenes**	**MTBE**
OW-8	9/16/2016	NO SAMPLE TAKEN WELL INACCESSIBLE				
	6/8/2016					
	3/10/2016					
	12/18/2015					
	9/19/2015					
	6/25/2015	0.612	<5	<0.5	1.87	<1
	3/12/2015	0.5	<5	<0.5	<1.5	<1
	12/18/2014	<0.5	<5	0.74	<1.5	<1
	9/15/2014	<0.5	<5	<0.5	<1.5	<1
	6/24/2014	0.76	<5	<0.5	<1.5	<1
	3/22/2014	<0.5	<5	<0.5	<1.5	<1
	12/16/2013	<0.5	<5	<0.5	<1.5	<1
	9/17/2013	0.66	<5	<0.5	<1.5	<1
	6/17/2013	0.55	<5	<0.5	<1.5	<1
	3/15/2013	0.63	<5	<0.5	<1.5	<1
	12/27/2012	1.5	<5	<0.5	<1.5	<1
	9/25/2012	1.3	<5	<0.5	<1.5	<1
	6/15/2012	1.2	<5	<0.5	<1.5	<1
	2/24/2012	0.71	<5	<0.5	1.5	<1
	12/9/2011	2.2	<5	<0.5	1.5	<1
	8/2/2011	*14*	<5	0.6	6.6	3.5
	5/11/2011	*18*	<5	<0.5	<1.5	1.2
	2/15/2011	*8.5*	<5	<0.5	<1.5	<1
	12/10/2010	*12*	<5	<0.5	<1.5	1.1
	9/8/2010	NO SAMPLE TAKEN WELL INACCESSIBLE				
	6/1/2010	0.98	<5	<0.5	<1.5	<1
	3/15/2010	1.1	<5	<0.5	<1.5	<1
	12/9/2009	<0.5	<5	<0.5	<1.5	<1
	8/25/2009	1.2	<5	<0.5	1.5	1.1
	4/22/2009	0.87	<5	<0.5	<1.5	<1
	2/6/2009	<0.5	<5	<0.5	<1.5	<1
	11/13/2008	1.6	<5	2	3.6	<1
	8/12/2008	1.2	<5	<0.5	<1.5	1.4
	5/6/2008	3.9	<5	<0.5	<1.5	3.4
	3/12/2008	1	<5	<0.5	<1.5	2.3
	10/4/2007	1.2	<5	<0.5	<1.5	<1
	7/24/2007	1.2	<5	<0.5	<1.5	1.7
	4/12/2007	1.1	<5	0.88	2	2.2
	1/3/2007	0.88	<5	<0.5	<1.5	3.1
	10/18/2006	2	<5	1.4	3.3	3.9
	11/2/2005	NO SAMPLE TAKEN WELL INACCESSIBLE				
	7/27/2005					
	6/30/2005					
	2/16/2005					
	10/12/2004					
	8/4/2004					
	5/5/2004					
	1/19/2004	<1	<5	<5	<10	<4
	12/9/2003	<1	<5	<5	<10	<4
	7/22/2003	2	<5	<5	<10	<4
	6/26/2003	NO SAMPLE TAKEN WELL INACCESSIBLE				

Historical Groundwater Analyses Results Circle K #86 / BP #184 Concentrations in parts per billion, ppb						
Location	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
MW-1 (off-site)	9/16/2016	<0.5	<5	<0.5	<1.5	<1
	6/8/2016	<0.5	<5	<0.5	<1.5	<1
	3/10/2016	<0.5	<5	<0.5	<1.5	<1
	12/18/2015	<0.5	<5	<0.5	<1.5	<1
	9/19/2015	<0.5	<5	<0.5	<1.5	<1
	6/25/2015	<0.5	<5	<0.5	<1.5	<1
	3/12/2015	<0.5	<5	<0.5	<1.5	<1
	12/18/2014	<0.5	<5	<0.5	<1.5	<1
	9/15/2014	<0.5	<5	<0.5	<1.5	<1
	6/24/2014	<0.5	<5	<0.5	<1.5	<1
	3/22/2014	<0.5	<5	<0.5	<1.5	<1
	12/16/2013	<0.5	<5	<0.5	<1.5	<1
	9/17/2013	<0.5	<5	<0.5	<1.5	<1
	6/17/2013	<0.5	<5	<0.5	<1.5	<1
	3/15/2013	<0.5	<5	<0.5	<1.5	<1
	12/27/2012	<0.5	<5	<0.5	<1.5	<1
	9/25/2012	<0.5	<5	<0.5	<1.5	<1
	6/15/2012	<0.5	<5	<0.5	<1.5	<1
	2/24/2012	<0.5	<5	<0.5	<1.5	<1
	12/9/2011	<0.5	<5	<0.5	<1.5	<1
	8/2/2011	<0.5	<5	<0.5	<1.5	<1
	5/11/2011	<0.5	<5	<0.5	<1.5	<1
	2/15/2011	<0.5	<5	<0.5	<1.5	<1
	12/10/2010	<0.5	<5	<0.5	<1.5	<1
	9/8/2010	<0.5	<5	<0.5	<1.5	<1
	6/1/2010	<0.5	<5	<0.5	<1.5	<1
	3/15/2010	<0.5	<5	<0.5	<1.5	<1
	12/9/2009	<0.5	<5	<0.5	<1.5	<1
	8/25/2009	<0.5	<5	<0.5	<1.5	<1
	4/22/2009	<0.5	<5	<0.5	<1.5	<1
	2/6/2009	<0.5	<5	<0.5	<1.5	<1
	11/13/2008	<0.5	<5	<0.5	<1.5	<1
	8/12/2008	<0.5	<5	<0.5	<1.5	<1
	5/6/2008	<0.5	<5	<0.5	<1.5	<1
	3/12/2008	<0.5	<5	<0.5	<1.5	<1
	10/4/2007	<0.5	<5	<0.5	<1.5	<1
	7/24/2007	<0.5	<5	<0.5	<1.5	<1
	4/12/2007	<0.5	<5	<0.5	<1.5	<1
	1/3/2007	<0.5	<5	<0.5	<1.5	<1
	10/18/2006	<0.5	<5	<0.5	<1.5	<1

Historical Groundwater Analyses Results Circle K #86 / BP #184 Concentrations in parts per billion, ppb						
Location	**Date**	**Benzene**	**Toluene**	**Ethylbenzene**	**Xylenes**	**MTBE**
MW-2R	9/16/2016	<0.5	<5	<0.5	<1.5	<1
(off-site)	6/8/2016	<0.5	<5	<0.5	<1.5	<1
	3/10/2016	<0.5	<5	<0.5	1.54	<1
	12/18/2015	<0.5	<5	<0.5	<1.5	<1
	9/19/2015	<0.5	<5	<0.5	<1.5	<1
	6/25/2015	<0.5	<5	<0.5	<1.5	<1
	3/12/2015	<0.5	<5	<0.5	<1.5	<1
	12/18/2014	<0.5	<5	<0.5	<1.5	<1
	9/15/2014	<0.5	<5	<0.5	<1.5	<1
	6/24/2014	<0.5	<5	<0.5	<1.5	<1
	3/22/2014	<0.5	<5	<0.5	<1.5	<1
	12/16/2013	<0.5	<5	<0.5	<1.5	<1
	9/17/2013	<0.5	<5	<0.5	<1.5	<1
	6/17/2013	<0.5	<5	<0.5	<1.5	<1
	3/15/2013	<0.5	<5	<0.5	<1.5	<1
	12/27/2012	<0.5	<5	<0.5	<1.5	<1
	9/25/2012	<0.5	<5	<0.5	<1.5	<1
	6/15/2012	<0.5	<5	<0.5	<1.5	<1
	2/24/2012	<0.5	<5	<0.5	<1.5	1.6
	12/9/2011	<0.5	<5	<0.5	<1.5	<1
	8/2/2011	<0.5	<5	<0.5	<1.5	<1
	5/11/2011	<0.5	<5	<0.5	<1.5	<1
	2/15/2011	<0.5	<5	<0.5	<1.5	<1
	12/10/2010	<0.5	<5	<0.5	<1.5	<1
	9/8/2010	<0.5	<5	<0.5	<1.5	<1
	6/1/2010	<0.5	<5	<0.5	<1.5	<1
	3/15/2010	<0.5	<5	<0.5	<1.5	<1
	12/9/2009	0.64	<5	<0.5	<1.5	1.1
	8/25/2009	0.59	<5	<0.5	<1.5	<1
	4/22/2009	1.6	<5	0.53	<1.5	1.7
	2/6/2009	<0.5	<5	<0.5	<1.5	<1
	11/13/2008	1.4	<5	2.9	1.5	7.7
	8/12/2008	1.3	<5	0.59	<1.5	4.8
	5/6/2008	1.7	<5	0.58	2.1	3.6
	3/12/2008	3.5	<5	<0.5	<1.5	6.2
	10/4/2007	<0.5	<5	0.88	<1.5	16
	7/24/2007	2.7	<5	0.95	<1.5	26
	4/12/2007	*46*	<5	1.4	1.7	9.2
	1/3/2007	*36*	<5	0.72	<1.5	13
	10/18/2006	*40*	<5	0.78	<1.5	20
MW-3R	9/16/2016	**82.3**	11.9	13	11.9	3.74
(off-site)	6/8/2016	**106**	16.6	14	7.52	9.98
	3/10/2016	**76.5**	10.9	9.75	7.41	3.07
	12/18/2015	**99**	10.4	10.2	9.89	4.18
	9/19/2015	**192**	16.8	26.3	30.1	15.4
	6/25/2015	**152**	16.6	15.6	12.5	6.78
	3/12/2015	**190**	13	14	9	9.9
	12/18/2014	**140**	14	14	8.5	5.2
	9/15/2014	**160**	16	14	9.1	6.8
	6/24/2014	**220**	<25	12	<7.5	11
	3/22/2014	**330**	<25	21	8	15
	12/16/2013	**200**	<25	13	11	<1
	9/17/2013	***320***	<5	19	11	11
	6/17/2013	**340**	<25	16	<7.5	9.3
	3/15/2013	**370**	<25	12	<7.5	7.7
	12/27/2012	**350**	<25	17	12	9.6
	9/25/2012	**400**	<25	16	7.8	20
	6/15/2012	**490**	<50	15	<15	<10
	2/24/2012	**650**	5.7	14	6.2	17
	12/9/2011	**550**	<5	14	5.5	6.5
	8/2/2011	**690**	<25	17	18	18
	5/11/2011	**700**	<50	21	<15	13
	2/15/2011	**1,100**	<25	32	12	29
	12/10/2010	**1,200**	<25	26	<7.5	16
	9/8/2010	**840**	<25	25	<7.5	14
	6/1/2010	**490**	<50	37	40	22
	3/15/2010	**1,200**	<250	<25	<75	*<50*
	12/9/2009	**940**	<250	46	90	*<50*
	8/25/2009	**850**	<250	44	<75	*<50*

Historical Groundwater Analyses Results Circle K #86 / BP #184 Concentrations in parts per billion, ppb						
Location	**Date**	**Benzene**	**Toluene**	**Ethylbenzene**	**Xylenes**	**MTBE**
MW-3	WELL ABANDONED					
(off-site)	4/22/2009	**530**	<50	36	<15	12
	2/6/2009	**310**	<5	12	4.1	5.7
	11/13/2008	**520**	<25	58	28	13
	8/12/2008	**500**	<25	60	27	9
	5/6/2008	**330**	<5	8.2	8.4	15
	3/12/2008	**290**	6.3	52	27	12
	10/4/2007	**480**	<120	78	69	<25
	7/24/2007	**590**	<25	67	42	29
	4/12/2007	**260**	7.3	53	28	*46*
	1/3/2007	**640**	<25	44	41	*53*
	10/18/2006	**610**	6.9	55	46	*57*
	11/2/2005	**1,300**	15	140	<100	*68*
	7/27/2005	**95**	<5	12	<10	*56*
	6/30/2005	**75**	<5	9.4	<10	*46*
	2/16/2005	**110**	<5	26	14	<4
	10/12/2004	*12*	<5	130	180	12
	8/4/2004	2.7	<5	120	170	<4
	5/5/2004	*17*	<5	150	120	*82*
	1/19/2004	*5.6*	<5	120	113	*290*
	12/9/2003	*12*	<10	120	88	*700*
	7/22/2003	*13*	<5	70	68	**2,900**
	6/26/2003	<5	<5	81	67	**5,200**
MW-4	9/16/2016	<0.5	<5	<0.5	<1.5	<1
(off-site)	6/8/2016	<0.5	<5	<0.5	<1.5	<1
	3/10/2016	<0.5	<5	<0.5	<1.5	<1
	12/18/2015	<0.5	<5	<0.5	<1.5	<1
	9/19/2015	<0.5	<5	<0.5	<1.5	<1
	6/25/2015	1.32	<5	<0.5	<1.5	<1
	3/12/2015	<0.5	<5	<0.5	<1.5	<1
	12/18/2014	<0.5	<5	<0.5	<1.5	<1
	9/15/2014	<0.5	<5	<0.5	<1.5	<1
	6/24/2014	<0.5	<5	<0.5	<1.5	<1
	3/22/2014	<0.5	<5	<0.5	<1.5	<1
	12/16/2013	<0.5	<5	<0.5	<1.5	<1
	9/17/2013	<0.5	<5	<0.5	<1.5	<1
	6/17/2013	<0.5	<5	<0.5	<1.5	<1
	3/15/2013	<0.5	<5	<0.5	<1.5	<1
	12/27/2012	<0.5	<5	<0.5	<1.5	<1
	9/25/2012	<0.5	<5	<0.5	<1.5	<1
	6/15/2012	<0.5	<5	<0.5	<1.5	<1
	2/24/2012	<0.5	<5	<0.5	<1.5	<1
	12/9/2011	<0.5	<5	<0.5	<1.5	<1
	8/2/2011	<0.5	<5	<0.5	<1.5	<1
	5/11/2011	<0.5	<5	<0.5	<1.5	<1
	2/15/2011	<0.5	<5	<0.5	<1.5	<1
	12/10/2010	<0.5	<5	<0.5	<1.5	<1
	9/8/2010	<0.5	<5	<0.5	<1.5	<1
	6/1/2010	<0.5	<5	<0.5	<1.5	<1
	3/15/2010	<0.5	<5	<0.5	<1.5	<1
	12/9/2009	<0.5	<5	<0.5	<1.5	<1
	8/25/2009	<0.5	<5	<0.5	<1.5	<1
	4/22/2009	<0.5	<5	<0.5	<1.5	<1
	2/6/2009	<0.5	<5	<0.5	<1.5	<1
	11/13/2008	<0.5	<5	<0.5	<1.5	<1
	8/12/2008	<0.5	<5	<0.5	<1.5	<1
	5/6/2008	<0.5	<5	<0.5	<1.5	<1
	3/12/2008	1.7	<5	<0.5	<1.5	<1
	10/4/2007	<0.5	<5	<0.5	<1.5	<1
	7/24/2007	0.53	<5	<0.5	<1.5	<1
	4/12/2007	<0.5	<5	<0.5	<1.5	<1
	1/3/2007	<0.5	<5	<0.5	<1.5	<1

Historical Groundwater Analyses Results Circle K #86 / BP #184 Concentrations in parts per billion, ppb						
Location	**Date**	**Benzene**	**Toluene**	**Ethylbenzene**	**Xylenes**	**MTBE**
MW-5R (off-site)	9/16/2016	<0.5	<5	<0.5	<1.5	<1
	6/8/2016	<0.5	<5	<0.5	<1.5	<1
	3/10/2016	<0.5	<5	<0.5	<1.5	<1
	12/18/2015	<0.5	<5	<0.5	<1.5	<1
	9/19/2015	<0.5	<5	<0.5	<1.5	<1
	6/25/2015	<0.5	<5	<0.5	<1.5	<1
	3/12/2015	<0.5	<5	<0.5	<1.5	<1
	12/18/2014	<0.5	<5	<0.5	<1.5	<1
	9/15/2014	<0.5	<5	<0.5	<1.5	<1
	6/24/2014	<0.5	<5	<0.5	<1.5	<1
	3/22/2014	<0.5	<5	<0.5	<1.5	<1
	12/16/2013	<0.5	<5	<0.5	<1.5	<1
	9/17/2013	<0.5	<5	<0.5	<1.5	<1
	6/17/2013	<0.5	<5	<0.5	<1.5	<1
	3/15/2013	<0.5	<5	<0.5	<1.5	<1
	12/27/2013	<0.5	<5	<0.5	<1.5	<1
	9/25/2012	<0.5	<5	<0.5	<1.5	<1
	6/15/2012	<0.5	<5	<0.5	<1.5	<1
	2/24/2012	<0.5	<5	<0.5	<1.5	<1
	12/9/2011	<0.5	<5	<0.5	<1.5	<1
	8/2/2011	<0.5	<5	<0.5	<1.5	<1
	5/11/2011	<0.5	<5	<0.5	<1.5	<1
	2/15/2011	<0.5	<5	<0.5	<1.5	<1
	12/10/2010	<0.5	<5	<0.5	<1.5	<1
	9/8/2010	<0.5	<5	<0.5	<1.5	<1
	6/1/2010	<0.5	<5	<0.5	<1.5	<1
	3/15/2010	<0.5	<5	<0.5	<1.5	<1
	12/9/2009	<0.5	<5	<0.5	<1.5	<1
	8/25/2009	<0.5	<5	<0.5	<1.5	<1
	4/22/2009	<0.5	<5	<0.5	<1.5	<1
	2/6/2009	<0.5	<5	<0.5	<1.5	<1
	11/13/2008	<0.5	<5	<0.5	<1.5	<1
	8/12/2008	<0.5	<5	<0.5	<1.5	<1
	5/6/2008	<0.5	<5	<0.5	<1.5	<1
	3/12/2008	<0.5	<5	<0.5	<1.5	<1
	10/4/2007	<0.5	<5	<0.5	<1.5	<1
	7/24/2007	0.62	<5	<0.5	<1.5	<1
	4/12/2007	<0.5	<5	<0.5	<1.5	<1
	1/3/2007	<0.5	<5	<0.5	<1.5	<1
	10/18/2006	<0.5	<5	<0.5	<1.5	<1
MW-5 (off-site)	WELL DESTROYED					
	11/2/2005	NO SAMPLE TAKEN WELL INACCESSIBLE				
	7/27/2005					
	6/30/2005	<1	<5	<5	<10	<4
	2/16/2005	<1	<5	<5	<10	<4
	10/12/2004	NO	SAMPLE	TAKEN	WELL	DRY
	8/4/2004	4.5	6.8	<5	<10	<4
	5/5/2004	<1	<5	<5	<10	<4

Historical Groundwater Analyses Results Circle K #86 / BP #184 Concentrations in parts per billion, ppb						
Location	**Date**	**Benzene**	**Toluene**	**Ethylbenzene**	**Xylenes**	**MTBE**
MW-6	9/16/2016	*7.51*	<5	1.18	<1.5	1.02
	6/8/2016	2.84	<5	1.18	<1.5	2.96
	3/10/2016	<0.5	<5	<0.5	<1.5	<1
	12/18/2015	1.35	<5	<0.5	<1.5	<1
	9/19/2015	1.78	<5	1.04	3.37	2.69
	6/25/2015	*5.76*	<5	6.19	3.02	<1
	3/12/2015	0.64	<5	<0.5	<1.5	<1
	12/18/2014	0.94	<5	<5	1.5	<1
	9/15/2014	2	<5	<5	1.5	2.2
	6/24/2014	1	<5	<0.5	<1.5	<1
	3/22/2014	0.92	<5	<0.5	<1.5	<1
	12/16/2013	4.5	<5	<0.5	1.6	<1
	9/17/2013	4	<5	<0.5	<1.5	<1
	6/17/2013	2.9	<5	<0.5	<1.5	<1
	3/15/2013	*5.6*	<5	<0.5	<1.5	<1
	12/27/2012	*17*	<5	0.85	2.5	1.5
	9/25/2012	**220**	<5	<0.5	4	32
	6/15/2012	*22*	<5	<0.5	<1.5	1.7
	2/24/2012	2.5	<5	<0.5	1.6	1.1
	12/9/2011	*12*	<5	<0.5	<1.5	1.1
	8/2/2011	*27*	<5	<0.5	<1.5	3.1
	5/11/2011	*16*	<5	<0.5	2	2.2
	2/15/2011	*22*	<5	0.6	2	1.7
	12/10/2010	*43*	<5	0.59	2.8	5.4
	9/8/2010	*23*	<5	<0.5	<1.5	<1
	6/1/2010	*28*	<5	0.87	1.6	2.1
	3/15/2010	*19*	<5	0.58	2.2	1.4
	12/9/2009	4.9	<5	0.64	<1.5	<1
	8/25/2009	*34*	<5	<0.5	<1.5	1.7
	4/22/2009	*20*	<5	<0.5	1.5	1.6
	2/6/2009	*16*	<50	<5	<15	<10
	11/13/2008	*37*	<5	0.71	3.5	2.3
	8/12/2008	**68**	<5	1.4	9.5	<1
	5/6/2008	*33*	<25	<2.5	<7.5	<5
	3/12/2008	*51*	<5	<0.5	1.5	1.9
	10/4/2007	*6.2*	<5	0.63	<1.5	2.8
	7/24/2007	*6.1*	<5	0.78	1.8	3.3
	4/12/2007	4.2	<5	0.78	2.3	2.1
	1/3/2007	*8.3*	<5	2.7	4.2	3.5
	10/18/2006	*45*	<50	<5	<15	<10

Historical Groundwater Analyses Results Circle K #86 / BP #184 Concentrations in parts per billion, ppb						
Location	**Date**	**Benzene**	**Toluene**	**Ethylbenzene**	**Xylenes**	**MTBE**
MW-7 (off-site)	9/16/2016	2.54	<5	<0.5	<1.5	<1
	6/8/2016	<0.5	<5	<0.5	<1.5	<1
	3/10/2016	<0.5	<5	<0.5	<1.5	<1
	12/18/2015	<0.5	<5	<0.5	<1.5	<1
	9/19/2015	Car parked over well				
	6/25/2015	<0.5	<5	<0.5	<1.5	<1
	3/12/2015	<0.5	<5	<0.5	<1.5	<1
	12/18/2014	<0.5	<5	<0.5	<1.5	<1
	9/15/2014	<0.5	<5	<0.5	<1.5	<1
	6/24/2014	<0.5	<5	<0.5	<1.5	<1
	3/22/2014	<0.5	<5	<0.5	<1.5	<1
	12/16/2013	<0.5	<5	<0.5	<1.5	<1
	9/17/2013	<0.5	<5	<0.5	<1.5	<1
	6/17/2013	<0.5	<5	<0.5	<1.5	<1
	3/15/2013	Well Inaccessible				
	12/27/2012	<0.5	<5	<0.5	<1.5	<1
	9/25/2012	Well Inaccessible				
	6/15/2012	<0.5	<5	<0.5	<1.5	<1
	2/24/2012	Well Inaccessible				
	12/9/2011	<0.5	<5	<0.5	<1.5	<1
	8/2/2011	<0.5	<5	<0.5	<1.5	<1
	5/11/2011	<0.5	<5	<0.5	<1.5	<1
	2/15/2011	<0.5	<5	<0.5	<1.5	<1
	12/10/2010	<0.5	<5	<0.5	<1.5	<1
	9/8/2010	<0.5	<5	<0.5	<1.5	<1
	6/1/2010	<0.5	<5	<0.5	<1.5	<1
	3/15/2010	<0.5	<5	<0.5	<1.5	<1
	12/9/2009	<0.5	<5	<0.5	<1.5	<1
	8/25/2009	<0.5	<5	<0.5	<1.5	<1
	4/22/2009	<0.5	<5	<0.5	<1.5	1.7
	2/6/2009	<0.5	<5	<0.5	<1.5	1.8
	11/13/2008	<0.5	<5	<0.5	<1.5	1.5
	8/12/2008	<0.5	<5	<0.5	<1.5	2.5
	5/6/2008	<0.5	<5	<0.5	<1.5	5.1
	3/12/2008	0.56	<5	<0.5	<1.5	4.8
	10/4/2007	<0.5	<5	<0.5	<1.5	8.4
	7/24/2007	<0.5	<5	<0.5	<1.5	13
	5/31/2007	<0.5	<5	<0.5	<1.5	<1
MW-8	9/16/2016	0.619	<5	2.01	4.3	<1
	6/8/2016	1.03	<5	1.98	5.1	<1
	3/10/2016	0.847	<5	4.8	6.45	<1
	12/18/2015	1.02	<5	2.93	5.2	<1
	9/19/2015	1.11	<5	1.41	3.39	<1
	6/25/2015	1.48	<5	3.83	8.15	<1
	3/12/2015	1.2	<5	1.3	1.5	<1
	12/18/2014	1.3	<5	3.3	5.5	<1
	9/15/2014	<0.5	<5	5.2	6.6	<1
	6/24/2014	2.4	<5	5.6	10	<1
	3/22/2014	3.1	<5	4.8	8.7	1.9
	12/16/2013	4	<5	5.8	7.5	2.5
	9/17/2013	4	<5	6	8.6	2.5
	6/17/2013	3.5	<5	5.2	11	1.8
	3/15/2013	*8.6*	6.6	8.8	9.6	2.6
	12/27/2012	11	<5	10	8.1	3
	9/25/2012	7.2	<5	6.9	11	4.9
	6/15/2012	4.1	<5	3.6	7.3	3.3
	2/24/2012	2.5	<5	6.9	7.5	3.7
	12/9/2011	4.4	<5	2.7	4.9	3.4
	8/2/2011	3.4	<5	4.4	6.5	5.3
	5/11/2011	*35*	<5	6.9	15	11
	2/15/2011	*20*	<5	13	24	5.3
	12/10/2010	*16*	7.2	13	28	7.8
	9/8/2010	4.4	<5	7.6	10	<1
	6/1/2010	2.7	<5	2.7	2.9	2.1
	3/15/2010	3.3	<5	5.2	12	1.8
	12/9/2009	1.9	<5	5	6.2	<1
	8/25/2009	2.3	<5	5.4	8.5	2.4

Historical Groundwater Analyses Results Circle K #86 / BP #184 Concentrations in parts per billion, ppb						
Location	**Date**	**Benzene**	**Toluene**	**Ethylbenzene**	**Xylenes**	**MTBE**
FD (MW-3R)	9/16/2016	**77.8**	12.2	12.6	11.5	3.43
	6/8/2016	**95.8**	15.4	12.8	6.97	10.4
	3/10/2016	**73.5**	10.3	8.99	6.27	1.44
	12/18/2015	**99.7**	10.2	10.3	9.98	3.86
FD (MW-6)	9/19/2015	1.78	<5	0.79	2.38	2.26
FD (MW-3R)	6/25/2015	**153**	16.1	15.3	12.4	6.6
	3/12/2015	**140**	<25	12	7.7	7.7
	12/18/2014	**200**	<25	12	7.5	11
	9/15/2014	**180**	<25	14	7.5	6.2
	6/24/2014	**240**	<25	13	<7.5	11
	3/22/2014	**310**	<25	20	7.6	14
	12/16/2013	**200**	<5	13	<15	12
	9/17/2013	**320**	<5	18	10	10
	6/17/2013	**330**	<25	14	<7.5	8.2
	3/15/2013	**380**	17	17	15	8.9
	12/27/2012	**360**	<25	18	14	14
	9/25/2012	**370**	5.6	13	7.2	14
	6/15/2012	**470**	<50	10	<15	12
	2/24/2012	**670**	6.2	15	6.7	18
FD (MW-6)	12/9/2011	12	<5	<0.5	<1.5	<1
FD (MW-3R)	8/2/2011	**970**	27	24	12	<5
	5/11/2011	**660**	17	22	13	15
FD (MW-6)	2/15/2011	*22*	<5	0.73	2.1	<1
	12/10/2010	*38*	<5	0.6	3.5	4.7
	9/8/2010	*16*	<5	<0.5	<1.5	<1
	6/1/2010	*29*	<5	0.91	1.7	2.1
	3/15/2010	*20*	<5	0.65	2.7	1.6
	12/9/2009	3.6	<5	<0.5	<1.5	<1
	8/25/2009	*33*	<25	<2.5	<7.5	<5
	4/22/2009	*22*	<50	<5	<15	<10
FD (MW-3)	2/6/2009	**510**	<120	30	<38	<25
	11/13/2008	**580**	<120	60	<38	<25
	8/12/2008	**360**	<5	45	21	17
	5/6/2008	**320**	<5	7.5	8.1	16
	3/12/2008	**290**	6.6	50	26	11
	10/4/2007	**510**	<120	83	64	<25
	7/24/2007	**600**	<50	66	40	32
	4/12/2007	**250**	7.1	51	27	*44*
	1/3/2007	**650**	<25	44	38	*54*
	10/18/2006	**600**	6.8	55	47	*56*
	11/2/2005	**1,200**	8.9	140	41	*54*
FD-1 (MW-3)	7/27/2005	**110**	<5	19	10	*58*
FD (OW-5R)	2/16/2005	**67**	<5	<5	<10	12
FD (OW-4R)	10/12/2004	1.9	14	9	<10	<4
FD-1 (OW-4R)	8/4/2004	<1	<5	6.7	<10	<4
	5/5/2004	1	<5	<5	<10	<4
	1/19/2004	<1	5.7	12	<10	<4
	12/9/2003	<2	<10	17	21	16
	7/22/2003	*11*	21	40	<40	<16
FD-1	6/26/2003	<4	21	23	<40	<16
CDCL		**52**	**20,000**	**10,000**	**20,000**	**870**
RDCL		*5*	*1,000*	*700*	*10,000*	*40*

RISC CDCL: Risk Integrated System of Closure Commercial Default Closure Level
RISC RDCL: Risk Integrated System of Closure Residential Default Closure Level
*MTBE: Methyl-Tertiary-Butyl-Ether / FD: Field Duplicate
The IDEM "Minimum Data Documentation Requirements" are provided in the attached laboratory report.