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March 23, 2018

BRRTS #: 03-13-187588  
PECFA #: 53593-9470-88

Trevor Bannister  
Wisconsin Department of Natural Resources  
3911 Fish Hatchery Road  
Fitchburg, WI 53711

Subject: Erfurth's Citgo – Letter Report

Dear Mr. Bannister,

Enclosed is the Letter Report for the Erfurth's Citgo site located at 1688 Washington Street in Mount Vernon, Wisconsin. **This completes the Public Bidding Deferred workscope approved on August 25, 2017.**

### **Access Agreements**

From September through November 2017, METCO was given permission from property owners at addresses 1675 Washington St, 1680 Washington St, 1682 Washington St, 8638 Davis St, 8640 Davis St, and 8641 Davis Street to collect water samples from their private potable wells. Property owners at 8638 and 8640 Davis St. also gave access permission to METCO to conduct sub-slab vapor sampling in their homes.

Please note that the property owner(s) at 8630 Jackson St denied access for METCO to collect a water sample from their private potable well, and the owner(s) at 8644 Davis St denied access for METCO to collect a water sample from their private potable well and to conduct sub-slab vapor sampling in their home. It should also be noted that even though access was granted to collect a water sample from 1682 residence, a sample could not be collected during the groundwater sampling event as the owner's father had recently passed away and was unable to meet METCO to collect a sample.

### **Sub-Slab Vapor Sampling Workscope**

On January 30, 2018, Braun Intertec of La Crosse, WI installed three sub-slab vapor sampling ports (SS-1, SS-2, and SS-3) in the basement floor of the 8640 Davis Street residence and three sub-slab vapor sampling ports (SS-4, SS-5, and SS-6) in the basement floor of the 8638 Davis Street residence. The sub-slab vapor sampling ports were constructed by drilling a ½-inch pilot hole through the concrete slab and several inches into

the sub slab material with a hammer drill. A 1½-inch outer hole is then drilled to depths ranging from ¾ -inch to 1-inch, depending on the concrete slab thickness. The holes were cleaned of dust and drilling debris using a shop-vac. A stainless-steel vapor pin is installed in the inner hole with a silicon sleeve to obtain an air tight seal with the concrete floor. The remainder of the hole is sealed with hydrated bentonite and a water dam test was conducted to confirm that the seal is air tight.

On January 30, 2018, Braun Intertec collected vapor samples from the sub-slab sampling ports (SS-1, SS-2, SS-3, SS-4, SS-5, and SS-6) for PVOC and Naphthalene (TO-15) analysis. Vapor samples were collected by using a short length of Teflon tubing to connect the sampling port and a 6-liter Suma canister. The air samples were collected using a Suma canister with a flow regulator that allowed the sub-slab vapor samples to be collected over a 30-minute period. Prior to collecting the sub-slab vapor samples, a shut-in test was conducted to assure that the fittings between the sample probe and sampling container are air tight. No leaks were detected. The sub-slab soil vapor sampling results are summarized in the attached data table.

### **Free Product Recovery**

On January 30, 2018, METCO personnel checked all sampled monitoring/piezometer wells for free product. Free product was encountered in MW-8 (0.5 inches) with approximately 0.01 gallons recovered via hand bailing.

### **Groundwater Monitoring Workslope**

On January 30, 2018, METCO personnel collected groundwater samples from nine monitoring wells (MW-1 thru MW-5, MW-7R, MW-8, MW-10, and MW-11) and five private potable wells (8638 Davis St, 8640 Davis St, 8641 Davis St, 1675 Washington St, and 1680 Washington St) for laboratory analysis. The samples collected from the monitoring wells were analyzed for PVOC and Naphthalene and the potable wells were sampled for VOC's. Field measurements for water level, Dissolved Oxygen, pH, ORP, temperature, and Specific Conductivity were collected from all sampled monitoring wells. Water level measurements were also collected from five additional monitoring/piezometer wells (MW-6, MW-12, MW-13, MW-14, and PZ-1).

### **Discussion of Sub-Slab Vapor Results**

Sub-Slab Vapor Sample SS-1: Showed detects, but no exceedances of the WDNR Residential Sub-Slab Vapor Action Levels.

Sub-Slab Vapor Sample SS-2: Showed detects, but no exceedances of the WDNR Residential Sub-Slab Vapor Action Levels.

Sub-Slab Vapor Sample SS-3: Showed detects, but no exceedances of the WDNR Residential Sub-Slab Vapor Action Levels.

Sub-Slab Vapor Sample SS-4: Showed detects, but no exceedances of the WDNR Residential Sub-Slab Vapor Action Levels.

Sub-Slab Vapor Sample SS-5: Showed detects, but no exceedances of the WDNR Residential Sub-Slab Vapor Action Levels.

Sub-Slab Vapor Sample SS-6: Showed detects, but no exceedances of the WDNR Residential Sub-Slab Vapor Action Levels.

### **Discussion of Free Product Recovery**

Free product has historically been encountered in monitoring wells MW-2, MW-3, MW-7/7R, and MW-8. Free product was first encountered in MW-2 in June 2007 (5 inches) and levels have ranged from no measurable free product to 5 inches. However, free product has not been encountered in MW-2 during the last three sampling events. Free product was first encountered in MW-3 in June 2007 (10 inches) and levels have ranged from no measurable free product to 10 inches. Current levels in MW-3 during the last three sampling events were 3 inches, 0 inches, and 0 inches, respectively. Free product was first encountered in MW-7/7R in September 2007 (7 inches) and levels have ranged from no measurable free product to 26 inches. However, free product has not been encountered in MW-7/7R since the April 2008 sampling event. Free product was first encountered in MW-8 in March 2011 (0.25 inches) and levels have ranged from no measurable free product to 4 inches. Current levels in MW-8 during the last three sampling events were 0 inches, 0 inches, and 0.5 inches, respectively. A total of 5.74 gallons of free product has been removed from the wells since it was first encountered.

### **Discussion of Groundwater Results**

Monitoring Well MW-1: Currently shows an NR140 Enforcement Standard (ES) exceedance for Benzene (320 ppb). It also shows NR140 Preventive Action Limit (PAL) exceedances for Ethylbenzene (195 ppb), Naphthalene (85 ppb), and Toluene (289 ppb). Contaminant concentrations appear to be stable to decreasing.

Monitoring Well MW-2: Currently shows NR140 ES exceedances for Benzene (42 ppb), Naphthalene (350 ppb), and Trimethylbenzenes (2,360 ppb). It also shows NR140 PAL exceedances for Ethylbenzene (410 ppb) and Xylene (1,740 ppb). Contaminant concentrations appear to be stable to decreasing.

Monitoring Well MW-3: Currently shows NR140 ES exceedances for Benzene (2,370 ppb), Ethylbenzene (1,110 ppb), Naphthalene (540 ppb), Toluene (3,900 ppb), Trimethylbenzenes (1,720 ppb), and Xylene (6,310 ppb). Contaminant concentrations appear to be stable.

Monitoring Well MW-4: Currently shows NR140 ES exceedances for Benzene (117 ppb) and Naphthalene (156 ppb). It also shows a NR140 PAL exceedances for Ethylbenzene (230 ppb). Contaminant concentrations appear to be unstable, however they are at low to moderate levels and may vary due to changes in water table elevation.

Monitoring Well MW-5: Currently shows NR140 ES exceedances for Benzene (27.2 ppb) and Naphthalene (141 ppb). It also shows NR140 PAL exceedances for Ethylbenzene (169 ppb), Trimethylbenzenes (390 ppb), and Xylene (645 ppb). Contaminant concentrations appear to be unstable, however they are at low to moderate levels and may vary due to changes in water table elevation.

Monitoring Well MW-7R: Currently shows NR140 ES exceedances for Benzene (1,780 ppb) and Naphthalene (156 ppb). It also shows NR140 PAL exceedances for Ethylbenzene (315 ppb), Trimethylbenzenes (261 ppb), and Xylene (633 ppb). Contaminant concentrations appear to be stable.

Monitoring Well MW-8: Currently shows NR140 ES exceedances for Benzene (1,790 ppb), Ethylbenzene (2,890 ppb), Naphthalene (1,150 ppb), Toluene (1,740 ppb), Trimethylbenzenes (4,920 ppb), and Xylene (13,220 ppb). Contaminant concentrations appear to be stable.

Monitoring Well MW-10: Currently shows NR140 ES exceedances for Benzene (1,070 ppb), Naphthalene (164 ppb), and Trimethylbenzenes (775 ppb). It also shows NR140 PAL exceedances for Ethylbenzene (530 ppb), Toluene (243 ppb), and Xylene (1,340 ppb). Contaminant concentrations appear to be stable.

Monitoring Well MW-11 (Anderson Property): Currently shows NR140 ES exceedances for Benzene (3,600 ppb), Ethylbenzene (1,750 ppb), Naphthalene (600 ppb), Toluene (4,800 ppb), Trimethylbenzenes (1,930 ppb), and Xylene (6,870 ppb). Contaminant concentrations appear to be stable to decreasing.

1675 Washington Street Private Well: Currently shows no detects for VOCs.

1680 Washington Street Private Well: Currently shows no detects for VOCs.

1682 Washington Street Private Well: Could not sample as owner was unable to meet METCO on-site to collect a sample. The well showed no detects for PVOC and Naphthalene when it was last sampled in 2009.

8638 Davis Street Private Well: Currently shows no detects for VOCs.

8640 Davis Street Private Well: Currently shows no detects for VOCs.

8641 Davis Street Private Well: Currently shows no detects for VOCs.

## Conclusions/Recommendations

It is the recommendation of METCO that the Erfurth's Citgo site be reviewed for the possibility of closure for the following reasons:

- 1) The extent of and degree of soil and groundwater contamination appears to be adequately defined.
- 2) The most highly contaminated soil was excavated during the reconstruction of Washington Street (STH 92/CR G).
- 3) Free product levels have decreased significantly in monitoring wells that have had free product in the past (MW-2, MW-3, MW-7/7R, and MW-8) during more recent sampling rounds.
- 4) Based on historic analytical results, groundwater contaminant trends appear to be stable to decreasing, with the exception of MW-4 and MW-5 which have varied from NR140 PAL to ES levels possibly due to changes in water table elevation.
- 5) All private potable wells that were sampled in the most recent round showed no detects for VOCs.
- 6) Sub-slab vapor sampling results from 8638 and 8640 Davis Street showed no exceedances of the WDNR Residential Sub-Slab Vapor Action Levels.

If the state concurs that "closure" is a viable option at this time, please contact METCO to discuss closure activities and costs.

However, if due to the unstable levels in MW-4 and MW-5 and small amount of free product noted in monitoring well MW-8, the state may require additional work prior to closure.

Per WDNR response to this conclusion/recommendation METCO will proceed.

A Detailed Site Map, Groundwater Flow Map, Groundwater Isoconcentration Map, Vapor Intrusion Map, Data Tables, Sub-Slab Vapor Sampling Notes and Photos, and Laboratory Documents have been attached.

If you have any questions or comments please feel free to call (608-781-8879) or email at [jasonp@metcohq.com](mailto:jasonp@metcohq.com).

Sincerely,

A handwritten signature in black ink that reads "Jason T. Powell". The signature is written in a cursive style with a long, sweeping underline that extends to the left.

Jason T. Powell  
Staff Scientist

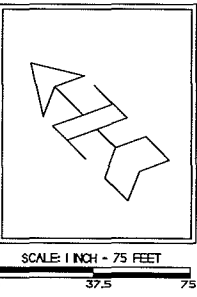
Attachments

c: Harland Erfurth – Client

**B.I.B. DETAILED SITE MAP**  
**ERFURTH'S CITGO**

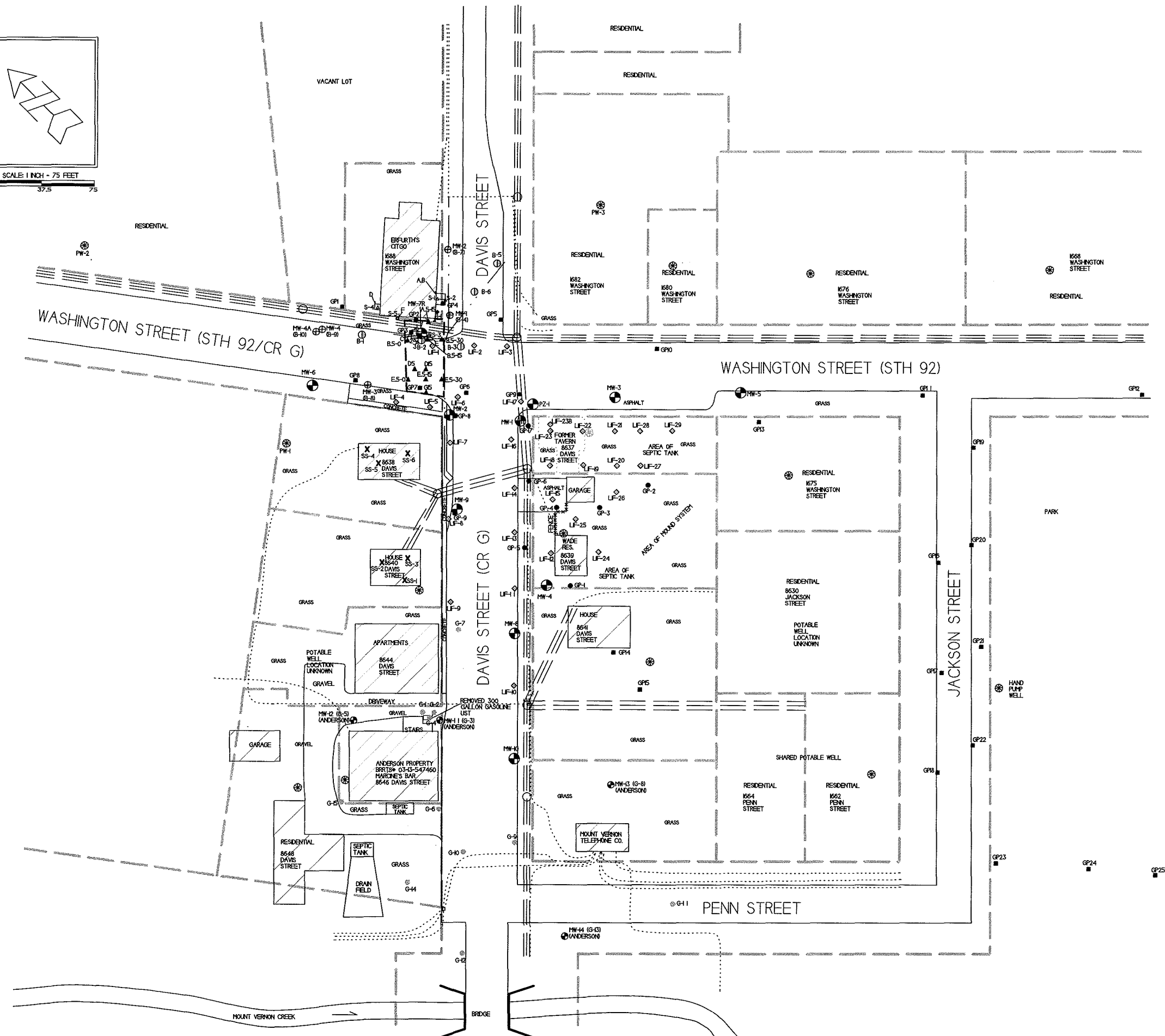
709 Gillette Street  
 Suite 3  
 La Crosse, WI 54603  
 Tel: (608) 781-8579  
 Fax: (608) 781-8593

**MOUNT VERNON, WISCONSIN**  
 DRAWN BY: ED DATE: 2/14/07  
 MODIFIED BY: MM DATE: 2/2/07



- NOTE: INFORMATION BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY VARY.
- ⊙ - POTABLE WELL LOCATION
  - ▲ - SOIL SAMPLE LOCATION (JUST REMOVAL)
  - ◆ - SITE ASSESSMENT SOIL SAMPLE LOCATION
  - ⊕ - SOIL BORING LOCATION (KEY ENGINEERING 1999)
  - ⊖ - FORMER MONITORING WELL LOCATION (KEY ENGINEERING 1999)
  - ⊗ - MONITORING WELL LOCATION
  - - GEOPROBE BORING LOCATION (RMT 2004)
  - - GEOPROBE BORING LOCATION (NORTHERN ENV. 2006)
  - ▲ - SOIL EXCAVATION SAMPLE LOCATION
  - ⊙ - GEOPROBE BORING LOCATION (ANDERSON PROPERTY - SEPT 2002)
  - ⊖ - MONITORING WELL LOCATION (ANDERSON PROPERTY)
  - ◇ - LF SURVEY LOCATION (METCO 2006)
  - X - SUB-SLAB VAPOR SAMPLING LOCATION

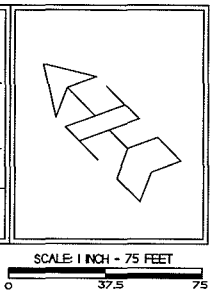
- PROPERTY BOUNDARIES  
 TELEPHONE/CABLE LINE  
 STORM SEWER LINE  
 OVERHEAD UTILITIES
- SOIL EXCAVATION BOUNDARIES
- FORMER LUST SYSTEMS COMPONENTS:  
 A - 1000 GALLON GASOLINE  
 B - 1000 GALLON GASOLINE  
 C - 500 GALLON GASOLINE  
 D - 300 GALLON FUEL OIL  
 E - GASOLINE PUMP ISLAND  
 F - FUEL OIL DISPENSER



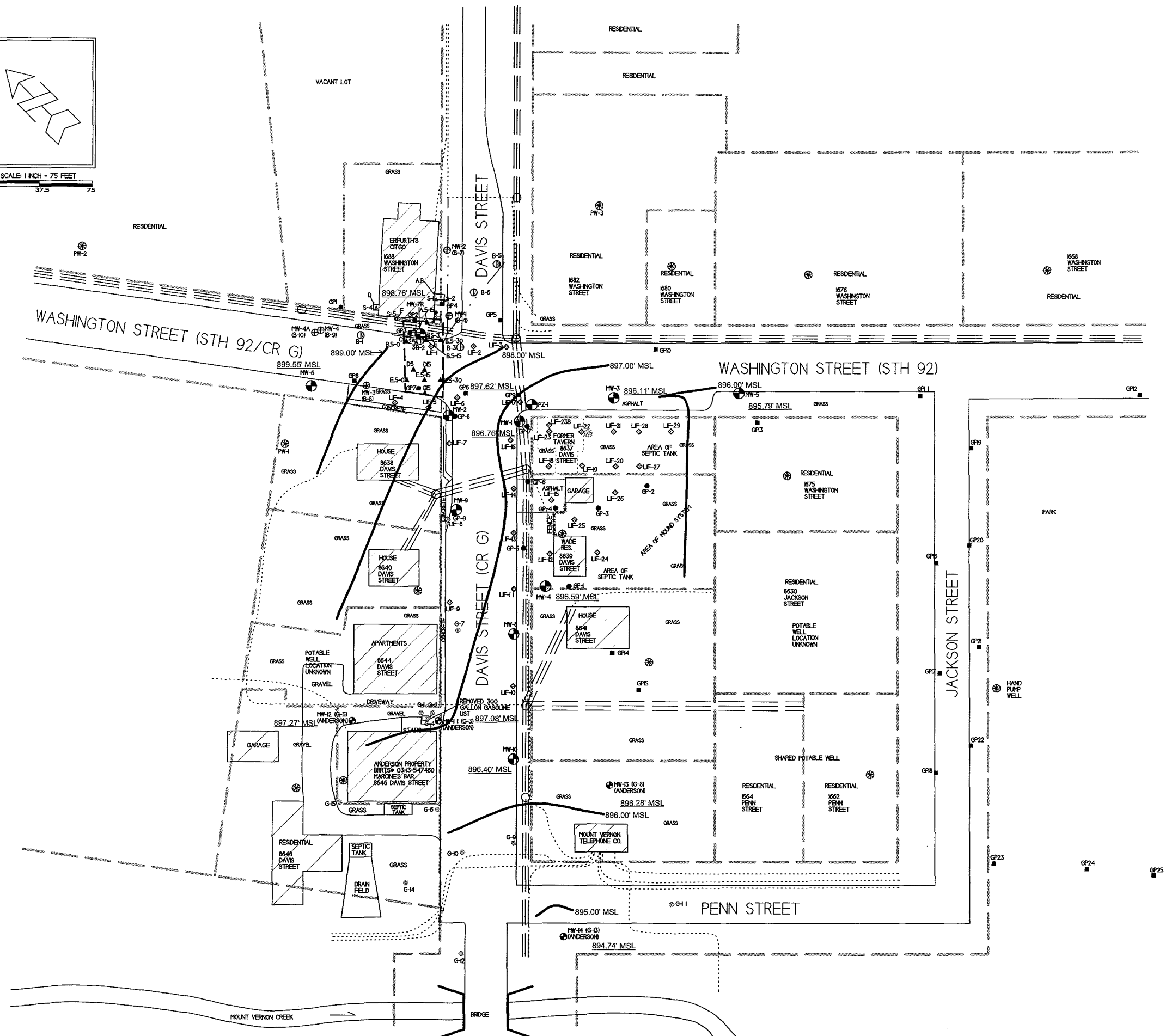
B.3.c. GROUNDWATER FLOW DIRECTION (1/30/18)

ERFURTH'S CITGO

 <p>709 Gillette Street Suite 3 La Crosse, WI 54603 Tel: (608) 781-8879 Fax: (608) 781-8893</p>	<p>MOUNT VERNON, WISCONSIN</p>
	<p>DRAWN BY: ED DATE: 2/14/07 MODIFIED BY: PH DATE: 2/2/07</p>



- NOTE: INFORMATION BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY VARY.
- ⊙ - POTABLE WELL LOCATION
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  - ◆ - SITE ASSESSMENT SOIL SAMPLE LOCATION
  - ⊕ - SOIL BORING LOCATION (KEY ENGINEERING 1999)
  - ⊕ - FORMER MONITORING WELL LOCATION (KEY ENGINEERING 1999)
  - ⊙ - MONITORING WELL LOCATION
  - - GEOPROBE BORING LOCATION (RMT 2004)
  - - GEOPROBE BORING LOCATION (NORTHERN ENV. 2006)
  - ▲ - SOIL EXCAVATION SAMPLE LOCATION
  - ⊙ - GEOPROBE BORING LOCATION (ANDERSON PROPERTY - SEPT 2002)
  - ⊕ - MONITORING WELL LOCATION (ANDERSON PROPERTY)
  - ◆ - LF SURVEY LOCATION (METCO 2006)
- PROPERTY BOUNDARIES: \_\_\_\_\_
- TELEPHONE/CABLE LINE: - - - - -
- STORM SEWER LINE: - - - - -
- OVERHEAD UTILITIES: - - - - -
- SOIL EXCAVATION BOUNDARIES: - - - - -
- FORMER UST SYSTEMS COMPONENTS:
- A - 1000 GALLON GASOLINE
  - B - 1000 GALLON GASOLINE
  - C - 500 GALLON GASOLINE
  - D - 300 GALLON FUEL OIL
  - E - GASOLINE PUMP ISLAND
  - F - FUEL OIL DISPENSER





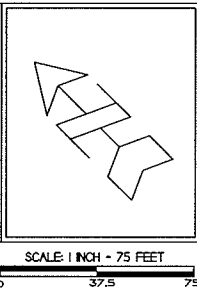
**B.3.b. GROUNDWATER ISOCONCENTRATION**

**ERFURTH'S CITGO**

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La Crosse, WI 54603  
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**MOUNT VERNON, WISCONSIN**

DRAWN BY: ED  
DATE: 2/14/07



NOTE: INFORMATION BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY VARY.

- ⊙ - POTABLE WELL LOCATION
- ▲ - SOIL SAMPLE LOCATION (AST REMOVAL)
- ◆ - SITE ASSESSMENT SOIL SAMPLE LOCATION
- ⊖ - SOIL BORING LOCATION (KEY ENGINEERING 1999)
- ⊕ - FORMER MONITORING WELL LOCATION (KEY ENGINEERING 1999)
- ⊙ - MONITORING WELL LOCATION
- - GEOPROBE BORING LOCATION (MAY 2004)
- - GEOPROBE BORING LOCATION (NORTHERN ENV. 2006)
- ▲ - SOIL EXCAVATION SAMPLE LOCATION
- ⊖ - GEOPROBE BORING LOCATION (ANDERSON PROPERTY - SEPT 2002)
- ⊙ - MONITORING WELL LOCATION (ANDERSON PROPERTY)
- ◇ - LIF SURVEY LOCATION (METCO 2006)

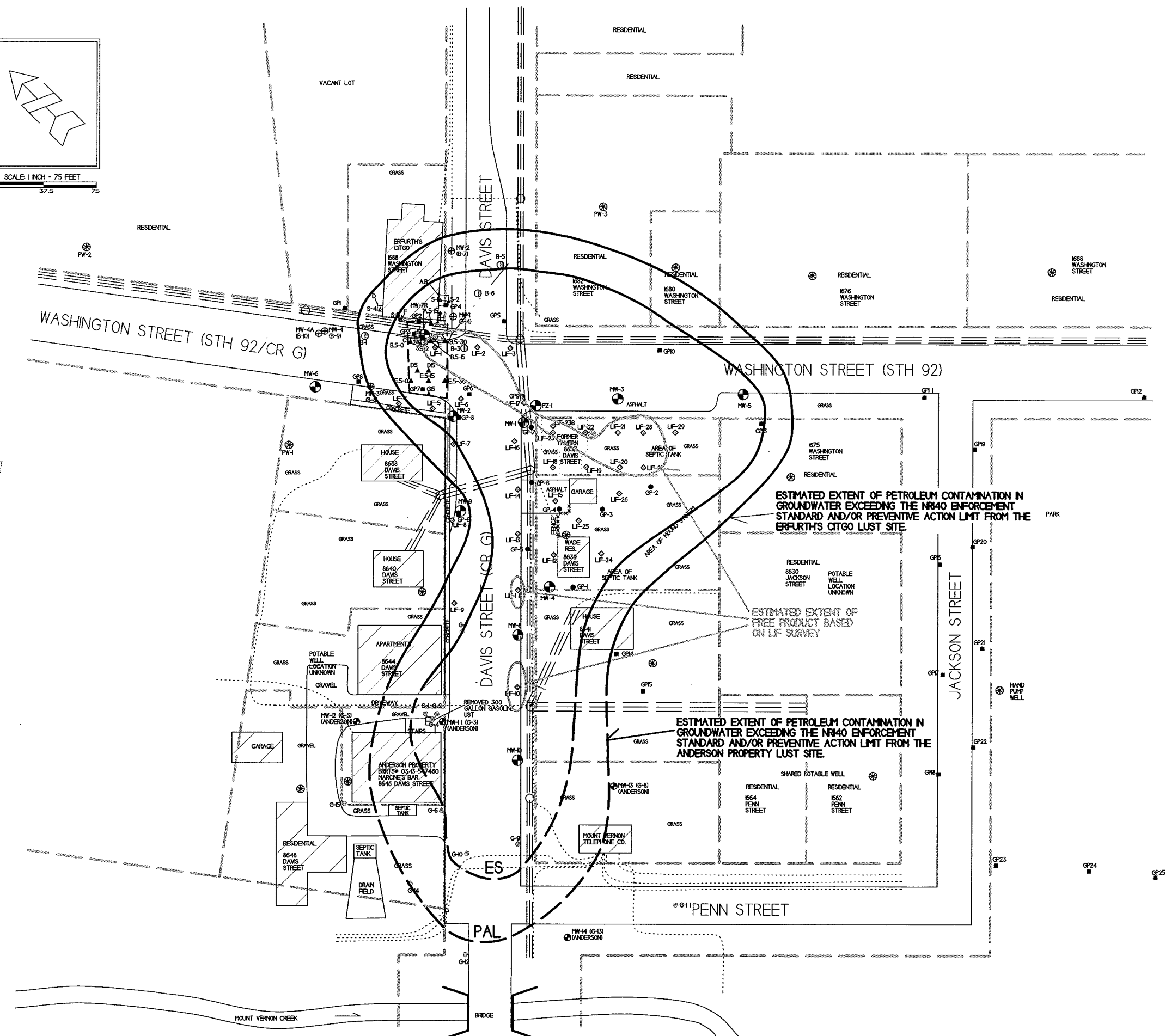
- PROPERTY BOUNDARIES
- TELEPHONE/CABLE LINE
- STORM SEWER LINE
- OVERHEAD UTILITIES
- SOIL EXCAVATION BOUNDARIES

- FORMER LUST SYSTEMS COMPONENTS:
- A - 1000 GALLON GASOLINE
  - B - 1000 GALLON GASOLINE
  - C - 500 GALLON GASOLINE
  - D - 500 GALLON FUEL OIL
  - E - GASOLINE PUMP ISLAND
  - F - FUEL OIL DISPENSER

NOTES

1) GROUNDWATER ISOCONCENTRATION MAP IS BASED ON GROUNDWATER ANALYTICAL RESULTS FROM THE JANUARY 30, 2008 SAMPLING EVENT.

2) MONITORING WELL MW-9 COULD NOT BE ACCESSED DURING THE SAMPLING EVENT AS THE WELL APPEARED TO HAVE BEEN PAVED OVER AND ATTEMPTS ACCESS THE WELL FAILED.



ESTIMATED EXTENT OF PETROLEUM CONTAMINATION IN GROUNDWATER EXCEEDING THE NR40 ENFORCEMENT STANDARD AND/OR PREVENTIVE ACTION LIMIT FROM THE ERFURTH'S CITGO LUST SITE

ESTIMATED EXTENT OF FREE PRODUCT BASED ON LIF SURVEY

ESTIMATED EXTENT OF PETROLEUM CONTAMINATION IN GROUNDWATER EXCEEDING THE NR40 ENFORCEMENT STANDARD AND/OR PREVENTIVE ACTION LIMIT FROM THE ANDERSON PROPERTY LUST SITE

# B.4.a. VAPOR INTRUSION MAP

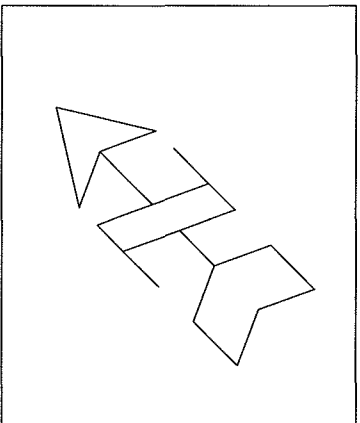
## ERFURTH'S CITGO



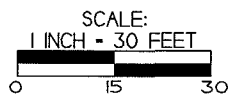
709 Gillette Street  
Suite 3  
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Tel: (608) 781-8879  
Fax: (608) 781-8893

MOUNT VERNON,  
WISCONSIN

DRAWN BY: ED DATE: 2/14/07  
MODIFIED BY: MM DATE: 2/21/17



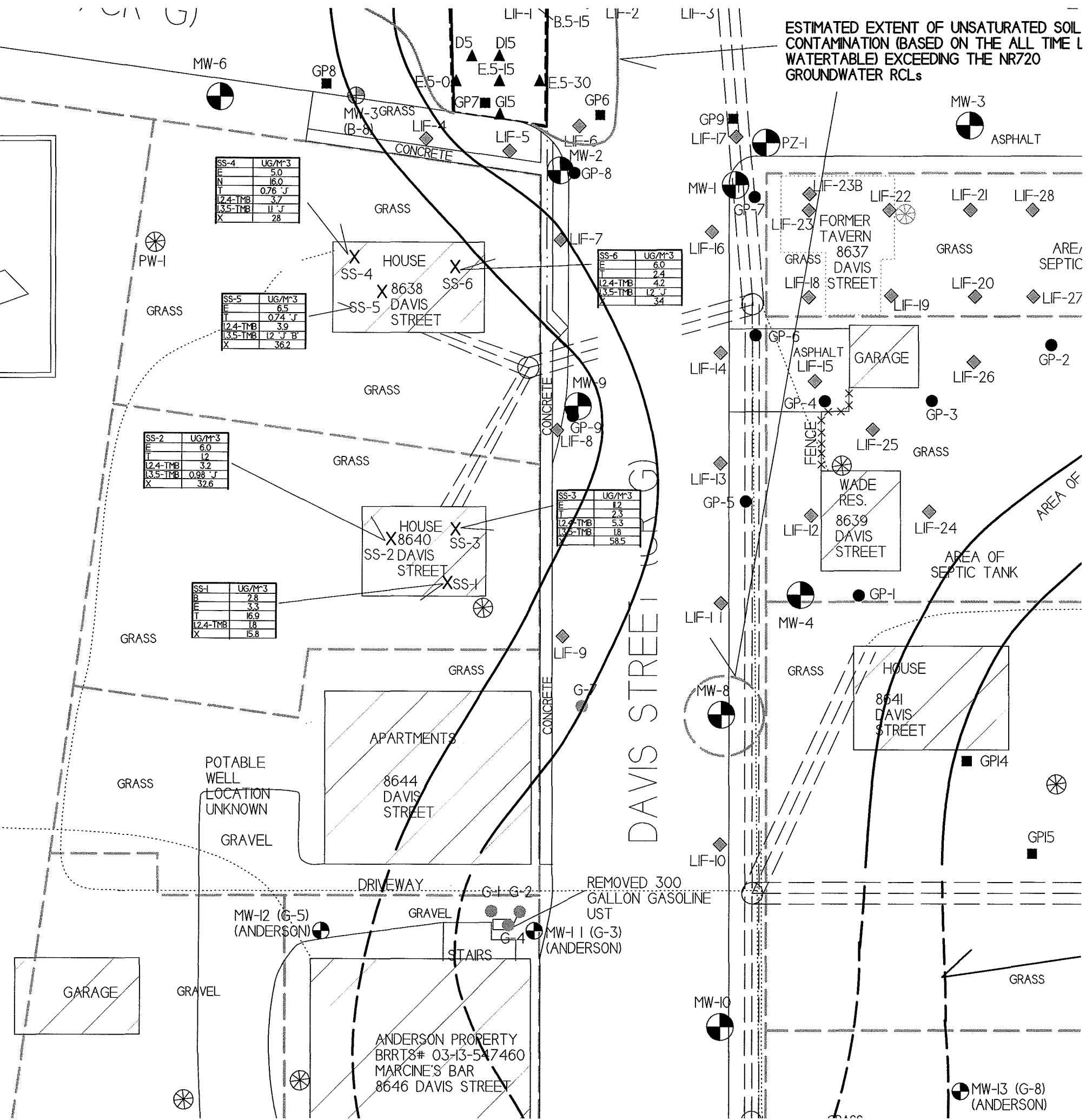
NOTE: INFORMATION BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY VARY.



- POTABLE WELL LOCATION
- SOIL SAMPLE LOCATION (UST REMOVAL)
- SITE ASSESSMENT SOIL SAMPLE LOCATION
- SOIL BORING LOCATION (KEY ENGINEERING 1999)
- FORMER MONITORING WELL LOCATION (KEY ENGINEERING 1999)
- MONITORING WELL LOCATION
- GEOPROBE BORING LOCATION (RMT 2004)
- GEOPROBE BORING LOCATION (NORTHERN ENV. 2006)
- SOIL EXCAVATION SAMPLE LOCATION
- GEOPROBE BORING LOCATION (ANDERSON PROPERTY - SEPT 2012)
- MONITORING WELL LOCATION (ANDERSON PROPERTY)
- LIF SURVEY LOCATION (METCO 2016)
- SUB-SLAB VAPOR SAMPLING LOCATION

- PROPERTY BOUNDARIES
- TELEPHONE/CABLE LINE
- STORM SEWER LINE
- OVERHEAD UTILITIES
- SOIL EXCAVATION BOUNDARIES

- FORMER UST SYSTEMS COMPONENTS:
- A = 1,000 GALLON GASOLINE
  - B = 1,000 GALLON GASOLINE
  - C = 500 GALLON GASOLINE
  - D = 300 GALLON FUEL OIL
  - E = GASOLINE PUMP ISLAND
  - F = FUEL OIL DISPENSER



ESTIMATED EXTENT OF UNSATURATED SOIL CONTAMINATION (BASED ON THE ALL TIME L WATERTABLE) EXCEEDING THE NR720 GROUNDWATER RCLs

DAVIS STREET (G)

REMOVED 300 GALLON GASOLINE UST

ANDERSON PROPERTY  
BRRT# 03-13-547460  
MARCINE'S BAR  
8646 DAVIS STREET

A.1 Groundwater Analytical Table  
 Erfurth's Citgo BRRS# 03-13-187588

Well MW-1  
 PVC Elevation =

911.24 (feet) (MSL)

Date	Water Elevation (in feet)	Depth to Water (in feet)	GRO (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
12/21/2004	896.37	14.87	3900	550	58	<3.0	52	370	95	390
2/16/2005	896.76	14.48	1200	170	1.8	<0.61	22	65	17.7	53
6/27/2006	NM	NM	NS	1850	145	<17	258	1350	177-237	1140
6/26/2007	896.99	14.25	NS	3500	330	<26	NS	2630	428	2290
9/25/2007	898.33	12.91	NS	2190	228	<26.5	NS	1560	373	1700
12/17/2007	896.95	14.29	NS	730	72	<5.3	NS	360	103.8	418
3/17/2008	898.45	12.79	NS	2410	206	<6.2	138	1690	249	1320
9/21/2009	897.17	14.07	NS	870	111	<8.4	122	590	144	600
12/14/2009	897.00	14.24	NS	1960	232	<4.2	145	1730	306	1480
3/15/2010	898.18	13.06	NS	2200	202	<4.9	115	1610	249	1230
6/10/2010	898.43	12.81	NS	2640	306	<5	185	3900	383	2190
03/08/11	897.23	14.01	NS	1940	242	<23.5	166	1830	393	1540
06/09/11	897.99	13.25	NS	3600	400	<40	193	4200	519	2880
09/12/11	896.96	14.28	NS	3700	450	<23.5	244	3700	600	3020
12/08/11	896.89	14.35	NS	2360	430	<23.5	135	2790	540	2690
08/19/13	897.24	14.00	NS	2270	330	<18.5	145	2190	426	1740
08/19/14	896.96	14.28	NS	3300	530	<18.5	267	3700	626	3140
11/30/16	898.09	13.15	NS	1680	310	<55	144	2100	246-321	1940
01/30/18	896.76	14.48	NS	320	195	<28.5	85	289	57-94.5	356
ENFORCE MENT STANDARD = ES - Bold			==	5	700	60	100	800	480	2000
PREVENTIVE ACTION LIMIT = PAL - Italics			==	0.5	140	12	10	160	96	400

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured  
 Note: Elevations are presented in feet mean sea level (msl).

Well Fmr Erfurth's Citgo MW-1  
 PVC Elevation =

923.53 (feet) (MSL)

Date	Water Elevation (in feet)	Depth to Water (in feet)	GRO (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
5/3/1999	916.40	7.13	1800	120	65	4.9	28	50	212	310
4/3/2000	916.40	12.08	NS	240	11	5.4	<0.22	30	57	120
8/23/2000	916.40	11.27	NS	10	<0.4	<0.47	<0.22	0.47	3.56	1.6
11/16/2000	916.40	13.89	NS	<0.39	<0.4	<0.47	NS	<0.37	<1.03	<1.4
ENFORCE MENT STANDARD = ES - Bold			==	5	700	60	100	800	480	2000
PREVENTIVE ACTION LIMIT = PAL - Italics			==	0.5	140	12	10	160	96	400

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured  
 Note: Elevations are presented in feet mean sea level (msl).

A.1 Groundwater Analytical Table  
 Erfurth's Citgo BRRS# 03-13-187588

Well MW-2

PVC Elevation = 912.07 (feet) (MSL)

Date	Water Elevation (in feet)	Depth to Water (in feet)	GRO (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
12/21/2004	897.15	14.92	16000	33	1100	<12	490	2000	1530	4700
2/16/2005	897.77	14.30	20000	53	1200	<12	480	2400	1530	5400
6/27/2006	NM	NM	NS	62	1990	<17	1020	2630	3420	9840
6/26/2007	897.67	14.40	NS	<0.47	1880	<52	620	2250	2310	8500
9/25/2007	899.10	12.97	NOT SAMPLED - FREE PRODUCT PRESENT							
12/17/2007	897.45	14.62	NOT SAMPLED - FREE PRODUCT PRESENT							
3/17/2008	900.26	11.81	NS	<49	1040	<62	540	910	2130	5110
9/21/2009	NM	NM	NS	28.6	880	<8.4	580	470	2060	4410
12/14/2009	897.81	14.26	NS	30.9	920	<8.4	610	440	2050	4510
3/15/2010	900.53	11.54	NS	105	790	<9.8	540	340	2440	4170
6/10/2010	899.86	12.21	NS	9.8	900	<5	470	340	1970	4790
03/08/11	898.66	13.41	NS	46	820	<9.4	520	330	2290	4010
06/09/11	899.43	12.64	NS	<25	700	<40	340	247	1860	3440
09/12/11	897.93	14.14	NS	37	730	<4.7	570	242	2370	3340
12/08/11	898.07	14.00	NS	69	720	<9.4	440	236	2120	3470
08/19/13	898.15	13.92	NS	37	580	<7.4	340	149	1850	2670
08/19/14	897.81	14.26	NS	110	710	<7.4	600	204	3090	3210
11/30/16	900.22	11.85	NS	<8.8	299	<22	254	71	1930	1339
01/30/18	897.62	14.45	NS	42	410	<28.5	350	110	2360	1740
ENFORCEMENT STANDARD = ES - Bold			==	5	700	60	100	800	480	2000
PREVENTIVE ACTION LIMIT = PAL - <i>Italics</i>			==	0.5	140	12	10	160	96	400

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured  
 Note: Elevations are presented in feet mean sea level (msl).

Well Fmr Erfurth's Citgo MW-2

PVC Elevation = 924.8 (feet) (MSL)

Date	Water Elevation (in feet)	Depth to Water (in feet)	GRO (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
3/17/1999	909.34	15.46	<100	<0.32	<0.34	2.1	<0.88	<0.35	<0.99	<0.98
8/23/2000	909.89	14.91	NS	<0.39	<0.4	<0.47	<0.22	<0.37	<1.03	<1.43
ENFORCEMENT STANDARD = ES - Bold			==	5	700	60	100	800	480	2000
PREVENTIVE ACTION LIMIT = PAL - <i>Italics</i>			==	0.5	140	12	10	160	96	400

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured  
 Note: Elevations are presented in feet mean sea level (msl).

A.1 Groundwater Analytical Table  
 Erfurth's Citgo BRRS# 03-13-187588

Well MW-3

PVC Elevation = 912.26 (feet) (MSL)

Date	Water Elevation (in feet)	Depth to Water (in feet)	GRO (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
12/21/2004	895.71	16.55	15000	4100	810	<30	300	2100	640	2140
2/16/2005	896.10	16.16	16000	3600	770	<15	270	1800	500	1720
6/27/2006	NM	NM	NS	3800	880	<34	1190	2820	953	2630
6/26/2007	895.99	16.27	NS	4200	1370	<52	430	5300	1730	7230
9/25/2007	897.34	14.92	NOT SAMPLED - FREE PRODUCT PRESENT							
12/17/2007	896.00	16.26	NOT SAMPLED - FREE PRODUCT PRESENT							
3/17/2008	897.70	14.56	NS	3700	930	<62	300	5400	1100	4910
9/21/2009	NM	NM	NS	3040	970	<42	780	3700	1430	4420
12/14/2009	895.89	16.37	NS	3200	1010	<50	520	4900	1640	6340
3/15/2010	898.07	14.19	NS	3500	890	<49	520	5100	1870	6920
6/11/2010	NM	NM	NS	2680	1100	<49	420	5700	2410	9040
03/08/11	FREE PRODUCT		NS	3200	930	<23.5	360	4200	1200	3960
06/09/11	FREE PRODUCT		NS	2350	1220	<40	550	4900	4320	9380
09/12/11	895.72	16.54	NS	2260	980	<23.5	550	3600	2220	6380
12/08/11	895.89	16.37	NS	2440	1280	<47	960	4500	4060	9360
08/19/13	896.40	15.86	NS	2560	900	<18.5	269	3080	1081	3860
08/19/14	FREE PRODUCT		NS	3200	2050	<18.5	1930	6100	9660	17900
11/30/16	897.17	15.09	NS	2710	1020	<55	360	5000	1590	6600
01/30/18	896.11	16.15	NS	2370	1110	<28.5	540	3900	1720	6310
ENFORCEMENT STANDARD = ES - Bold			==	5	700	60	100	800	480	2000
PREVENTIVE ACTION LIMIT = PAL - Italics			==	0.5	140	12	10	160	96	400

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured  
 Note: Elevations are presented in feet mean sea level (msl).

Well Fmr Erfurth's Citgo MW-3

PVC Elevation = 922.05 (feet) (MSL)

Date	Water Elevation (in feet)	Depth to Water (in feet)	GRO (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
3/17/1999	911.95	10.10	110	0.6	1.6	17	<0.88	3.8	5.9	7.6
4/3/2000	907.98	14.07	NS	<0.39	<0.4	17	<0.22	<0.37	<1.03	<1.4
8/23/2000	909.06	12.99	NS	<0.39	<0.4	6	<0.22	<0.37	<1.03	<1.43
11/16/2000	908.02	14.03	NS	1.1	<0.4	13	NS	0.54	<1.03	<1.4
ENFORCEMENT STANDARD = ES - Bold			==	5	700	60	100	800	480	2000
PREVENTIVE ACTION LIMIT = PAL - Italics			==	0.5	140	12	10	160	96	400

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured  
 Note: Elevations are presented in feet mean sea level (msl).

A.1 Groundwater Analytical Table  
 Erfurth's Citgo BRRS# 03-13-187588

Well MW-4

PVC Elevation = 907.72 (feet) (MSL)

Date	Water Elevation (in feet)	Depth to Water (in feet)	GRO (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
12/21/2004	896.25	11.47	16000	360	1400	<12	430	2100	1150	5000
2/16/2005	896.69	11.03	14000	330	1100	<6.1	340	1600	810	3990
6/27/2006	NM	NM	NS	143	1520	<17	560	2070	1810	6820
6/26/2007	896.82	10.90	NS	3.8	124	<0.52	NS	97	205	592
9/25/2007	898.06	9.66	NS	25.4	330	<5.3	NS	560	328	1570
12/17/2007	896.75	10.97	NS	80	1190	<5.3	NS	1150	1430	5150
3/17/2008	898.91	8.81	NS	<0.49	<0.68	<0.62	<0.88	<0.46	<1.42	<1.85
9/21/2009	896.85	10.87	NS	129	1000	<8.4	630	770	1630	4720
12/14/2009	896.84	10.88	NS	37	112	<4.2	84	19.9	168	241
3/15/2010	898.72	9.00	NS	<0.4	<0.65	<0.49	<1.2	<0.86	<1.49	<2.15
6/10/2010	898.14	9.58	NS	<0.38	0.56	<0.25	<2.4	<0.72	7.37	1.13-1.65
03/08/11	897.58	10.14	NS	<0.49	1.7	<0.47	2.79	<0.89	5.79	5.51
06/09/11	898.31	9.41	NS	<0.5	<0.78	<0.8	<2.1	<0.53	<1.54	<1.9
09/12/11	896.68	11.04	NS	33	236	<0.47	138	178	295	902
12/08/11	896.87	10.85	NS	2.5	7.4	<0.47	6.2	2.89	16.7	20.1
08/19/13	897.03	10.69	NS	9.6	53	<0.37	183.0	44	467	718
08/19/14	896.81	10.91	NS	10.4	304	<3.7	235.0	38	661	810
11/30/16	898.77	8.95	NS	1.06	3.01	<0.49	<2.6	<0.39	5.69	<2.06
01/30/18	896.59	11.13	NS	117	230	<5.7	156	12.8	55.2	156.3
ENFORCE MENT STANDARD = <b>ES - Bold</b>			==	5	700	60	100	800	480	2000
PREVENTIVE ACTION LIMIT = <i>PAL - Italics</i>			==	0.5	140	12	10	160	96	400

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured  
 Note: Elevations are presented in feet mean sea level (msl).

Well Fmr Erfurth's Citgo MW-4

PVC Elevation = 923.05 (feet) (MSL)

Date	Water Elevation (in feet)	Depth to Water (in feet)	GRO (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
3/17/1999	909.33	13.72	<100	1.1	<0.34	4.4	<0.88	0.7	1	0.57
ENFORCE MENT STANDARD = <b>ES - Bold</b>			==	5	700	60	100	800	480	2000
PREVENTIVE ACTION LIMIT = <i>PAL - Italics</i>			==	0.5	140	12	10	160	96	400

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured  
 Note: Elevations are presented in feet mean sea level (msl).

A.1 Groundwater Analytical Table  
 Erfurth's Citgo BRRS# 03-13-187588

Well Fmr Erfurth's Citgo MW-4A  
 PVC Elevation =

923.05 (feet) (MSL)

Date	Water Elevation (in feet)	Depth to Water (in feet)	GRO (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
8/23/2000	909.06	13.99	NS	<0.39	1	<0.47	<0.22	0.94	0.47	2.6
11/16/2000	908.36	14.69	NS	<0.39	<0.4	1.1	NS	<0.37	<1.03	<1.4
<b>ENFORCE MENT STANDARD = ES - Bold</b>			<b>==</b>	<b>5</b>	<b>700</b>	<b>60</b>	<b>100</b>	<b>800</b>	<b>480</b>	<b>2000</b>
<b>PREVENTIVE ACTION LIMIT = PAL - Italics</b>			<b>==</b>	<b>0.5</b>	<b>140</b>	<b>12</b>	<b>10</b>	<b>160</b>	<b>96</b>	<b>400</b>

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured  
 Note: Elevations are presented in feet mean sea level (msl).

Well MW-5  
 PVC Elevation =

911.44 (feet) (MSL)

Date	Water Elevation (in feet)	Depth to Water (in feet)	GRO (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
6/26/2007	896.16	15.28	NS	26.5	102	<0.52	61	101	176	341
9/25/2007	897.32	14.12	NS	18.2	69	<0.53	NS	68	104.7	188
12/17/2007	896.01	15.43	NS	69	151	<0.53	NS	148	165	365
3/17/2008	898.25	13.19	NS	46	146	<0.62	82	166	164	441
9/21/2009	895.93	15.51	NS	60	97	<0.42	46	61	94.3	200
12/14/2009	896.13	15.31	NS	13.5	39	<0.42	22.2	19.6	50	69
3/15/2010	897.89	13.55	NS	15.7	59	<0.49	33	49	87.1	170
6/10/2010	897.35	14.09	NS	9.9	34	<0.25	10	14	14.9-15.45	45.1
03/08/11	896.58	14.86	NS	27.9	93	<0.47	57	61	124	174
06/09/11	897.08	14.36	NS	2.65	8.2	<0.8	<2.1	4.3	3.3-4.04	10.59
09/12/11	895.89	15.55	NS	650	250	<4.7	24	11.3	192.8	260
12/08/11	896.23	15.21	NS	38	37	<0.47	13	28.2	20.49	56.1
08/19/13	896.23	15.21	NS	15.2	84	<0.37	29	49	75.7	166.3
08/19/14	895.96	15.48	NS	7.5	29.3	<0.37	9.5	18.1	23.1	52.8
11/30/16	897.37	14.07	NS	<4.4	73	<11	25.2	32	75-90	128.8
01/30/18	895.79	15.65	NS	27.2	169	<5.7	141	84	390	645
<b>ENFORCE MENT STANDARD = ES - Bold</b>			<b>==</b>	<b>5</b>	<b>700</b>	<b>60</b>	<b>100</b>	<b>800</b>	<b>480</b>	<b>2000</b>
<b>PREVENTIVE ACTION LIMIT = PAL - Italics</b>			<b>==</b>	<b>0.5</b>	<b>140</b>	<b>12</b>	<b>10</b>	<b>160</b>	<b>96</b>	<b>400</b>

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured  
 Note: Elevations are presented in feet mean sea level (msl).

A.1 Groundwater Analytical Table  
 Erfurth's Citgo BRRTS# 03-13-187588

Well MW-6

PVC Elevation = 914.06 (feet) (MSL)

Date	Water Elevation (in feet)	Depth to Water (in feet)	GRO (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
6/26/2007	900.83	13.23	NS	<0.47	<0.49	<0.52	<1.8	<0.46	<1.57	<0.99
9/25/2007	902.48	11.58	NS	<0.22	<0.44	<0.53	NS	<0.26	<0.67	<1.21
12/17/2007	900.04	14.02	NS	<0.22	<0.44	<0.53	NS	<0.26	<0.67	<1.21
3/17/2008	904.67	9.39	NS	<0.49	<0.68	<0.62	<0.88	<0.46	<1.42	<1.85
9/21/2009	900.05	14.01	NS	<0.45	<0.76	<0.42	<1.4	<0.53	<1.13	<1.58
12/14/2009	900.21	13.85	NS	<0.45	<0.76	<0.42	<1.4	<0.53	<1.13	<1.58
3/15/2010	902.91	11.15	NS	<0.4	<0.65	<0.49	<1.2	<0.86	<1.49	<2.15
6/10/2010	902.73	11.33	NS	<0.38	<0.55	<0.25	<2.4	<0.72	<1.20	<1.62
03/08/11	901.65	12.41	NS	<0.49	<0.98	<0.47	<2	<0.89	<2.7	<3.2
06/09/11	902.30	11.76	NS	<0.5	<0.78	<0.8	<2.1	<0.53	<1.54	<1.9
09/12/11	899.86	14.20	NS	<0.49	<0.98	<0.47	<2	<0.89	<2.7	<3.2
12/08/11	900.48	13.58	NS	<0.49	<0.98	<0.47	<2	<0.89	<2.7	<3.2
08/19/13	900.93	13.13	NS	<0.27	<0.82	<0.37	<1.2	<0.8	<1.69	<2.41
08/19/14	900.34	13.72	NS	<0.27	<0.82	<0.37	<1.2	<0.8	<1.69	<2.41
11/30/16	902.83	11.23	NS	<0.44	<0.71	<1.1	<1.6	<0.44	<3.1	<3.1
01/30/18	899.55	14.51	NOT SAMPLED							
ENFORCE MENT STANDARD = ES - Bold			==	5	700	60	100	800	480	2000
PREVENTIVE ACTION LIMIT = PAL - <i>Italics</i>			==	0.5	140	12	10	160	96	400

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured  
 Note: Elevations are presented in feet mean sea level (msl).

Well MW-77R

PVC Elevation = 914.09 (feet) (MSL)

Date	Water Elevation (in feet)	Depth to Water (in feet)	GRO (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
6/26/2007	899.78	14.31	NS	10400	1710	<52	600	12100	1810	8800
9/25/2007	900.60	13.49	NOT SAMPLED - FREE PRODUCT PRESENT							
12/17/2007	898.83	15.26	NOT SAMPLED - FREE PRODUCT PRESENT							
3/17/2008	902.60	11.49	NS	1210	860	<62	450	2110	1880	5050
9/21/2009	899.26	14.83	NS	2010	370	<8.4	150	257	302	938
12/14/2009	899.38	14.71	NS	1200	152	<8.4	144	120	181	520
3/15/2010	903.93	10.16	NS	<0.4	<0.65	<0.49	<1.2	<0.86	<1.49	<2.15
6/10/2010	903.28	10.81	NS	73	8.1	<0.25	7	2.13	15.85	34.3
03/08/11	900.61	13.48	NS	1600	309	<4.7	119	390	305	940
06/09/11	899.26	14.83	NS	32	54	<0.8	2.96	5.3	18.7	34.5
09/12/11	899.92	14.17	NS	2130	450	<23.5	173	820	264-329	1260
12/08/11	900.00	14.09	NS	920	188	<0.47	81	221	266	686
08/19/13	900.64	13.45	NS	470	84	<3.7	59	50	118.7	265
08/19/14	899.75	14.34	NS	1040	149	<3.7	161	306	156.5	515
11/30/16	901.37	12.72	NS	276	53	<11	22	9.5	34-49	51.5
01/30/18	898.76	15.33	NS	1780	315	<28.5	156	152	261	633
ENFORCE MENT STANDARD = ES - Bold			==	5	700	60	100	800	480	2000
PREVENTIVE ACTION LIMIT = PAL - <i>Italics</i>			==	0.5	140	12	10	160	96	400

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured  
 Note: Elevations are presented in feet mean sea level (msl).



A.1 Groundwater Analytical Table  
 Erfurth's Citgo BRRTS# 03-13-187588

Well MW-8

PVC Elevation = 906.6 (feet) (MSL)

Date	Water Elevation (in feet)	Depth to Water (in feet)	GRO (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
6/26/2007	896.99	9.61	NS	3300	2330	<52	640	6600	2120	9180
9/25/2007	898.17	8.43	NS	3600	2000	<53	NS	4800	1920	7620
12/17/2007	CAR PARKED OVER WELL									
3/17/2008	898.49	8.11	NS	3140	2650	<62	670	8900	2520	10970
9/21/2009	896.81	9.79	NS	2660	3000	<42	1210	5600	4390	14000
12/14/2009	896.83	9.77	NS	2250	2490	<21	1110	3700	4630	11380
3/15/2010	898.07	8.53	NS	3000	2850	<49	2010	6500	7180	12870
6/10/2010	898.12	8.48	NS	2700	2850	<49	600	6800	2280	11620
03/08/11	896.99	9.61	NS	3300	2980	<23.5	1150	5800	4950	12800
06/09/11	897.56	9.04	NS	2780	3400	<80	1100	6900	5260	14900
09/12/11	896.40	10.20	NS	2670	2710	<47	950	4500	3660	12050
12/08/11	896.70	9.90	NS	2210	2590	<47	830	4700	3890	12050
09/27/12	895.49	11.11	NS	1450	1830	<28.5	680	1810	3010	8250
08/19/13	897.05	9.55	NS	2100	1980	<37	510	1720	2730	7090
11/19/13	896.69	9.91	NOT SAMPLED							
08/19/14	896.69	9.91	NS	2250	5000	<37	2820	4100	13800	21800
03/17/16	898.12	8.48	NOT SAMPLED							
09/07/16	897.75	8.85	NOT SAMPLED							
11/30/16	897.75	8.85	NS	1800	3100	<110	1450	2420	5550	13070
12/05/16	897.75	8.85	NOT SAMPLED							
03/02/17	897.98	8.62	NOT SAMPLED							
01/30/18	FREE PRODUCT		NS	1790	2890	<28.5	1150	1740	4920	13220
ENFORCEMENT STANDARD = ES - Bold			==	5	700	60	100	800	480	2000
PREVENTIVE ACTION LIMIT = PAL - Italics			==	0.5	140	12	10	160	96	400

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured  
 Note: Elevations are presented in feet mean sea level (msl).

Well MW-9

PVC Elevation = 908.87 (feet) (MSL)

Date	Water Elevation (in feet)	Depth to Water (in feet)	GRO (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
6/26/2007	898.27	10.60	NS	<0.47	<0.49	<0.52	<1.8	<0.46	<1.57	0.70-1.02
9/25/2007	899.55	9.32	NS	<0.22	<0.44	<0.53	NS	0.83	<0.67	<1.21
12/17/2007	898.19	10.68	NS	<0.22	0.81	<0.53	NS	0.88	8.95	5.74
3/17/2008	900.60	8.27	NS	<0.49	<0.68	<0.62	<0.88	<0.46	<1.42	<1.85
9/21/2009	CAR PARKED OVER WELL									
12/14/2009	SNOW OVER WELL									
3/15/2010	COULD NOT LOCATE									
6/10/2010	COULD NOT LOCATE									
03/08/11	COULD NOT LOCATE									
06/09/11	PAVED OVER									
ENFORCEMENT STANDARD = ES - Bold			==	5	700	60	100	800	480	2000
PREVENTIVE ACTION LIMIT = PAL - Italics			==	0.5	140	12	10	160	96	400

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured  
 Note: Elevations are presented in feet mean sea level (msl).

A.1 Groundwater Analytical Table  
 Erfurth's Citgo BRRS# 03-13-187588

Well MW-10

PVC Elevation = 905.12 (feet) (MSL)

Date	Water Elevation (in feet)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	Dichloro-(DCA) (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
06/09/11	897.39	7.73	NS	870	NS	440	<8	154	1150	1076	1114
09/12/11	896.87	8.25	NS	700	NS	330	<4.7	221	580	960	734
12/08/11	896.77	8.35	NS	400	NS	245	<9.4	146	287	683	494
09/27/12	896.13	8.99	<0.7	700	NS	253	<5.7	66	370	421	469
08/19/13	897.09	8.03	NS	770	NS	243	<3.7	83	320	353	417
11/19/13	896.67	8.45	NOT SAMPLED								
02/18/14	896.04	9.08	NOT SAMPLED								
08/19/14	896.75	8.37	NS	830	NS	350	<3.7	128	249	547	621
03/17/16	897.49	7.63	NOT SAMPLED								
09/07/16	897.47	7.65	NOT SAMPLED								
11/30/16	897.55	7.57	NS	680	NS	320	<11	94	174	500	761
12/05/16	897.55	7.57	NOT SAMPLED								
03/02/17	897.63	7.49	NOT SAMPLED								
01/30/18	896.40	8.72	NS	1070	NS	530	<28.5	164	243	775	1340
ENFORCE MENT STANDARD = ES - Bold			15	5	5	700	60	100	800	480	2000
PREVENTIVE ACTION LIMIT = PAL - Italics			1.5	0.5	0.5	140	12	10	160	96	400

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured  
 Note: Elevations are presented in feet mean sea level (msl).

Well MW-11 (Anderson Property)

PVC Elevation = 906.02 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	Dichloro-(DCA) (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
09/27/12	896.51	9.51	26.2	9300	NS	2000	<160	560	16200	2820	9460
08/19/13	897.64	8.38	6.0	8500	56	2000	<23	440	12900	2340	8370
11/19/13	897.16	8.86	3.7	9300	<41	1900	<23	486	14400	2152	8700
02/18/14	896.48	9.54	4.3	8600	<205	1540	<115	980	13400	1600-2300	7470
03/17/16	898.52	7.50	2.8	7300	<48	1480	<110	490	9800	1660	7620
09/07/16	898.31	7.71	3	5400	<48	1750	<110	490	11900	1820	7900
12/05/16	898.05	7.97	2.1	4900	<48	1690	<110	460	12200	1780	7790
03/02/17	898.45	7.57	<2	5100	<45	1760	<82	410	12800	1630	8440
01/30/18	897.08	8.94	NS	3600	NS	1750	<57	600	4800	1930	6870
ENFORCE MENT STANDARD ES = Bold			15	5	5	700	60	100	800	480	2000
PREVENTIVE ACTION LIMIT PAL = Italics			1.5	0.5	0.5	140	12	10	160	96	400

NS = Not Sampled

A.1 Groundwater Analytical Table  
 Erfurth's Citgo BRRTS# 03-13-187588

Well MW-12 (Anderson Property)  
 PVC Elevation =

905.59 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	Dichloro- (DCA) (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
09/27/12	896.73	8.86	<0.7	<0.5	NS	<0.78	<0.8	<2.1	<0.53	<1.54	<1.9
08/19/13	897.96	7.63	<0.7	<0.24	<0.41	<0.55	<0.23	<1.7	<0.69	<3.6	<1.32
11/19/13	897.42	8.17	<0.7	<0.24	<0.41	<0.55	<0.23	<1.7	<0.69	<3.6	<1.32
02/18/14	896.68	8.91	<0.7	<0.24	<0.41	<0.55	<0.23	<1.7	<0.69	<3.6	<1.32
03/17/16	898.77	6.82	NS	<0.44	<0.48	<0.71	<1.1	<1.6	<0.44	<3.1	<3.1
09/07/16	898.53	7.06	NS	<0.44	<0.48	<0.71	<1.1	<1.6	<0.44	<3.1	<3.1
12/05/16	898.24	7.35	NS	<0.44	<0.48	<0.71	<1.1	<1.6	<0.44	<3.1	<3.1
03/02/17	898.70	6.89	NS	<0.17	<0.45	<0.2	<0.82	<2.17	<0.67	<2.05	<1.95
01/30/18	897.27	8.32	NOT SAMPLED								
ENFORCEMENT STANDARD ES = <b>Bold</b>			15	5	5	700	60	100	800	480	2000
PREVENTIVE ACTION LIMIT PAL = <i>Italics</i>			1.5	0.5	0.5	140	12	10	160	96	400

NS = Not Sampled

Well MW-13 (Anderson Property)  
 PVC Elevation =

903.89 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	Dichloro- (DCA) (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
09/27/12	895.76	8.13	<0.7	7.2	NS	<0.78	<0.8	<2.1	<0.53	<1.54	<1.9
08/19/13	896.70	7.19	<0.7	28.4	2.58	<0.55	<0.23	<1.7	<0.69	<3.6	<1.32
11/19/13	896.32	7.57	<0.7	27.3	3.9	<0.55	<0.23	<1.7	<0.69	<3.6	<1.32
02/18/14	895.69	8.20	<0.7	2.12	1.2	<0.55	<0.23	<1.7	<0.69	<3.6	<1.32
03/17/16	897.75	6.14	NS	<0.44	<0.48	<0.71	<1.1	<1.6	<0.44	<3.1	<3.1
09/07/16	897.42	6.47	NS	<0.44	<0.48	<0.71	<1.1	<1.6	<0.44	<3.1	<3.1
12/05/16	897.27	6.62	NS	<0.44	<0.48	<0.71	<1.1	<1.6	<0.44	<3.1	<3.1
03/02/17	897.71	6.18	NS	<0.17	<0.45	<0.2	<0.82	<2.17	<0.67	<2.05	<1.95
01/30/18	896.28	7.61	NOT SAMPLED								
ENFORCEMENT STANDARD ES = <b>Bold</b>			15	5	5	700	60	100	800	480	2000
PREVENTIVE ACTION LIMIT PAL = <i>Italics</i>			1.5	0.5	0.5	140	12	10	160	96	400

NS = Not Sampled

A.1 Groundwater Analytical Table  
 Erfurth's Citgo BRRTS# 03-13-187588

Well MW-14 (Anderson Property)  
 PVC Elevation =

902.17 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	Dichloro- (DCA) (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
09/27/12	894.62	7.55	<0.7	<0.5	NS	<0.78	<0.8	<2.1	<0.53	<1.54	<1.9
08/19/13	894.94	7.23	<0.7	<0.24	<0.41	<0.55	<0.23	<1.7	<0.69	<3.6	<1.32
11/19/13	894.89	7.28	<0.7	<0.24	<0.41	<0.55	<0.23	<1.7	<0.69	<3.6	<1.32
02/18/14	894.27	7.90	<0.7	<0.24	<0.41	<0.55	<0.23	<1.7	<0.69	<3.6	<1.32
03/17/16	894.91	7.26	NS	<0.44	<0.48	<0.71	<1.1	<1.6	<0.44	<3.1	<3.1
09/07/16	895.56	6.61	NS	<0.44	<0.48	<0.71	<1.1	<1.6	<0.44	<3.1	<3.1
12/05/16	895.32	6.85	NS	<0.44	<0.48	<0.71	<1.1	<1.6	<0.44	<3.1	<3.1
03/02/17	895.52	6.65	NS	<0.17	<0.45	<0.2	<0.82	<2.17	<0.67	<2.05	<1.95
01/30/18	894.74	7.43	NOT SAMPLED								
ENFORCEMENT STANDARD ES = <b>Bold</b>			15	5	5	700	60	100	800	480	2000
PREVENTIVE ACTION LIMIT PAL = <i>Italics</i>			1.5	0.5	0.5	140	12	10	160	96	400

NS = Not Sampled

Well PZ-1

PVC Elevation =

912.13 (feet) (MSL)

Date	Water Elevation (in feet)	Depth to Water (in feet)	GRO (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)	
6/26/2007	897.01	15.12	NS	<0.47	<0.49	<0.52	<1.8	0.69	<1.57	0.90-1.22	
9/25/2007	898.24	13.89	NS	<0.22	<0.44	<0.53	NS	<0.26	<0.67	<1.21	
12/17/2007	896.92	15.21	NS	<0.22	<0.44	<0.53	NS	<0.26	<0.67	<1.21	
3/17/2008	898.36	13.77	NS	<0.49	<0.68	<0.62	<0.88	<0.46	<1.42	<1.85	
9/21/2009	897.03	15.10	NS	<0.45	<0.76	<0.42	<1.4	<0.53	<1.13	<1.58	
12/14/2009	896.82	15.31	NS	<0.45	<0.76	<0.42	<1.4	<0.53	<1.13	<1.58	
3/15/2010	897.98	14.15	NS	<0.4	<0.65	<0.49	<1.2	<0.86	<1.49	<2.15	
6/10/2010	898.16	13.97	NS	<0.38	<0.55	<0.25	<2.4	<0.72	<1.20	<1.62	
03/08/11	897.11	15.02	NS	<0.49	<0.98	<0.47	<2	<0.89	<2.7	<3.2	
06/09/11	897.70	14.43	NS	<0.5	<0.78	<0.8	<2.1	<0.53	<1.54	<1.9	
09/12/11	896.98	15.15	NS	<0.49	<0.98	<0.47	<2	<0.89	<2.7	<3.2	
12/08/11	896.76	15.37	NS	<0.49	<0.98	<0.47	<2	<0.89	<2.7	<3.2	
08/19/13	897.26	14.87	NS	<0.27	<0.82	<0.37	<1.2	<0.8	<1.69	<2.41	
08/19/14	896.93	15.20	NS	<0.27	<0.82	<0.37	<1.2	<0.8	<1.69	<2.41	
11/30/16	897.99	14.14	NS	<0.44	<0.71	<1.1	<1.6	<0.44	<3.1	<3.1	
01/30/18	896.66	15.47	NOT SAMPLED								
ENFORCEMENT STANDARD = ES - <b>Bold</b>			==	5	700	60	100	800	480	2000	
PREVENTIVE ACTION LIMIT = PAL - <i>Italics</i>			==	0.5	140	12	10	160	96	400	

(ppb) = parts per billion

(ppm) = parts per million

ns = not sampled

nm = not measured

Note: Elevations are presented in feet mean sea level (msl).

A.1 Groundwater Analytical Table  
 Erfurth's Citgo BRRTS# 03-13-187588

Well Fmr Erfurth's Citgo PW-2  
 PVC Elevation =

NM (feet) (MSL)

Date	Water Elevation (in feet)	Depth to Water (in feet)	GRO (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
4/3/2000	NM	NM	NS	<0.39	<0.04	<0.47	NS	<0.37	<1.03	<1.4
<b>ENFORCEMENT STANDARD = ES - Bold</b>			==	5	700	60	100	800	480	2000
<b>PREVENTIVE ACTION LIMIT = PAL - Italics</b>			==	0.5	140	12	10	160	96	400

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured  
 Note: Elevations are presented in feet mean sea level (msl).

Well 1662 PENN

Date	Water Elevation (in feet)	Depth to Water (in feet)	GRO (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
9/21/2009	NM	NM	NS	<0.2	<0.3	<0.31	<0.45	<0.24	<0.61	<1.18
<b>ENFORCEMENT STANDARD = ES - Bold</b>			==	5	700	60	100	800	480	2000
<b>PREVENTIVE ACTION LIMIT = PAL - Italics</b>			==	0.5	140	12	10	160	96	400

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured  
 Note: Elevations are presented in feet mean sea level (msl).

Well 1668 WASH

Date	Water Elevation (in feet)	Depth to Water (in feet)	GRO (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
9/21/2009	NM	NM	NS	<0.2	<0.3	<0.31	<0.45	<0.24	<0.61	<1.18
<b>ENFORCEMENT STANDARD = ES - Bold</b>			==	5	700	60	100	800	480	2000
<b>PREVENTIVE ACTION LIMIT = PAL - Italics</b>			==	0.5	140	12	10	160	96	400

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured  
 Note: Elevations are presented in feet mean sea level (msl).

**A.1 Groundwater Analytical Table**  
**Erfurth's Citgo BRRS# 03-13-187588**

**Well 1675 WASH**

Date	Water Elevation (in feet)	Depth to Water (in feet)	GRO (ppb)	Dichloro-(DCA) (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
9/21/2009	NM	NM	NS	NS	<0.2	<0.3	<0.31	<0.45	<0.24	<0.61	<1.18
1/30/2018	NM	NM	NS	<0.25	<0.22	<0.26	<0.28	<2.1	<0.19	<1.43	<0.72
<b>ENFORCE MENT STANDARD = ES - Bold</b>			==	5	5	700	60	100	800	480	2000
<b>PREVENTIVE ACTION LIMIT = PAL - Italics</b>			==	0.5	0.5	140	12	10	160	96	400

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured  
 Note: Elevations are presented in feet mean sea level (msl).

**Well 1676 WASH**

Date	Water Elevation (in feet)	Depth to Water (in feet)	GRO (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
9/21/2009	NM	NM	NS	<0.2	<0.3	<0.31	<0.45	<0.24	<0.61	<1.18
<b>ENFORCE MENT STANDARD = ES - Bold</b>			==	5	700	60	100	800	480	2000
<b>PREVENTIVE ACTION LIMIT = PAL - Italics</b>			==	0.5	140	12	10	160	96	400

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured  
 Note: Elevations are presented in feet mean sea level (msl).

**Well 1680 WASH**

Date	Water Elevation (in feet)	Depth to Water (in feet)	GRO (ppb)	Dichloro-(DCA) (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
9/21/2009	NM	NM	NS	NS	<0.2	<0.3	<0.31	<0.45	<0.24	<0.61	<1.18
1/30/2018	NM	NM	NS	<0.25	<0.22	<0.26	<0.28	<2.1	<0.19	<1.43	<0.72
<b>ENFORCE MENT STANDARD = ES - Bold</b>			==	5	5	700	60	100	800	480	2000
<b>PREVENTIVE ACTION LIMIT = PAL - Italics</b>			==	0.5	0.5	140	12	10	160	96	400

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured  
 Note: Elevations are presented in feet mean sea level (msl).

**A.1 Groundwater Analytical Table**  
**Erfurth's Citgo BRRTS# 03-13-187588**

**Well 1682 WASH**

Date	Water Elevation (in feet)	Depth to Water (in feet)	GRO (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)	
9/21/2009	NM	NM	NS	<0.2	<0.3	<0.31	<0.45	<0.24	<0.61	<1.18	
1/30/2018	NM	NM	NS	COULD NOT SAMPLE							
<b>ENFORCEMENT STANDARD = ES - Bold</b>			==	5	700	60	100	800	480	2000	
<b>PREVENTIVE ACTION LIMIT = PAL - Italics</b>			==	0.5	140	12	10	160	96	400	

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured  
 Note: Elevations are presented in feet mean sea level (msl).

**Well 1688 WASH**

Date	Water Elevation (in feet)	Depth to Water (in feet)	GRO (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
9/21/2009	NM	NM	NS	<0.2	<0.3	<0.31	<0.45	<0.24	<0.61	<1.18
<b>ENFORCEMENT STANDARD = ES - Bold</b>			==	5	700	60	100	800	480	2000
<b>PREVENTIVE ACTION LIMIT = PAL - Italics</b>			==	0.5	140	12	10	160	96	400

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured  
 Note: Elevations are presented in feet mean sea level (msl).

**Well 8637 DAVIS**

Date	Water Elevation (in feet)	Depth to Water (in feet)	GRO (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
9/21/2009	NM	NM	NS	<0.2	<0.3	<0.31	<0.45	<0.24	<0.61	<1.18
<b>ENFORCEMENT STANDARD = ES - Bold</b>			==	5	700	60	100	800	480	2000
<b>PREVENTIVE ACTION LIMIT = PAL - Italics</b>			==	0.5	140	12	10	160	96	400

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured  
 Note: Elevations are presented in feet mean sea level (msl).

**A.1 Groundwater Analytical Table**  
**Erfurth's Citgo BRRS# 03-13-187588**

**Well 8638 DAVIS ( Fmr Erfurth's Citgo PW-1)**

Date	Water Elevation (in feet)	Depth to Water (in feet)	GRO (ppb)	1,2-Dichloroethane (DCA) (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethylbenzenes (ppb)	Xylene (Total) (ppb)
4/3/2000	NM	NM	NS	NS	<0.39	<0.04	<0.47	NS	<0.37	<1.03	<1.4
9/21/2009	NM	NM	NS	NS	<0.2	<0.3	<0.31	<0.45	<0.24	<0.61	<1.18
1/30/2018	NM	NM	NS	<0.25	<0.22	<0.26	<0.28	<2.1	<0.19	<1.43	<0.72
<b>ENFORCE MENT STANDARD = ES - Bold</b>			==	5	5	700	60	100	800	480	2000
<b>PREVENTIVE ACTION LIMIT = PAL - Italics</b>			==	0.5	0.5	140	12	10	160	96	400

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured  
 Note: Elevations are presented in feet mean sea level (msl).

**Well 8639 DAVIS**

Date	Water Elevation (in feet)	Depth to Water (in feet)	GRO (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethylbenzenes (ppb)	Xylene (Total) (ppb)
9/21/2009	NM	NM	NS	<0.2	0.42	<0.31	<0.45	<0.24	<0.61	1.74
<b>ENFORCE MENT STANDARD = ES - Bold</b>			==	5	700	60	100	800	480	2000
<b>PREVENTIVE ACTION LIMIT = PAL - Italics</b>			==	0.5	140	12	10	160	96	400

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured  
 Note: Elevations are presented in feet mean sea level (msl).

**Well 8640 DAVIS**

Date	Water Elevation (in feet)	Depth to Water (in feet)	GRO (ppb)	1,2-Dichloroethane (DCA) (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethylbenzenes (ppb)	Xylene (Total) (ppb)
9/21/2009	NM	NM	NS	NS	<0.2	<0.3	<0.31	<0.45	<0.24	<0.61	<1.18
1/30/2018	NM	NM	NS	<0.25	<0.22	<0.26	<0.28	<2.1	<0.19	<1.43	<0.72
<b>ENFORCE MENT STANDARD = ES - Bold</b>			==	5	5	700	60	100	800	480	2000
<b>PREVENTIVE ACTION LIMIT = PAL - Italics</b>			==	0.5	0.5	140	12	10	160	96	400

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured  
 Note: Elevations are presented in feet mean sea level (msl).



**A.1 Groundwater Analytical Table**  
**Erfurth's Citgo BRRTS# 03-13-187588**

**Well 8641 DAVIS**

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	1,2-Dichloroethane (DCA) (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethylbenzenes (ppb)	Xylene (Total) (ppb)
9/21/2009	NM	NM	NS	<0.2	NS	<0.3	<0.31	<0.45	<0.24	<0.61	<1.18
09/27/12	NM	NM	<0.7	<0.24	<0.3	<0.27	<0.38	<0.34	<0.39	<0.242	<0.97
1/30/2018	NM	NM	NS	<0.22	<0.25	<0.26	<0.28	<2.1	<0.19	<1.43	<0.72
<b>ENFORCE MENT STANDARD = ES - Bold</b>			==	5	5	700	60	100	800	480	2000
<b>PREVENTIVE ACTION LIMIT = PAL - Italics</b>			==	0.5	0.5	140	12	10	160	96	400

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured  
 Note: Elevations are presented in feet mean sea level (msl).

**Well 8644 DAVIS**

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	GRO (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethylbenzenes (ppb)	Xylene (Total) (ppb)
9/21/2009	NM	NM	NS	<0.2	<0.3	<0.31	<0.45	<0.24	<0.61	<1.18
<b>ENFORCE MENT STANDARD = ES - Bold</b>			==	5	700	60	100	800	480	2000
<b>PREVENTIVE ACTION LIMIT = PAL - Italics</b>			==	0.5	140	12	10	160	96	400

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured  
 Note: Elevations are presented in feet mean sea level (msl).

**Well 8646 DAVIS**

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	1,2-Dichloroethane (DCA) (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethylbenzenes (ppb)	Xylene (Total) (ppb)
9/21/2009	NM	NM	ACCESS DENIED								
09/27/12	NM	NM	1.1	<0.24	<0.3	<0.27	<0.38	<0.34	<0.39	<0.242	<0.97
<b>ENFORCE MENT STANDARD = ES - Bold</b>			==	5	5	700	60	100	800	480	2000
<b>PREVENTIVE ACTION LIMIT = PAL - Italics</b>			==	0.5	0.5	140	12	10	160	96	400

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured  
 Note: Elevations are presented in feet mean sea level (msl).

A.1 Groundwater Analytical Table  
 Erfurth's Citgo BRRS# 03-13-187588

Well Sampling Conducted on: 01/30/18 01/30/18 01/30/18 01/30/18 01/30/18

VOC's

Well Name 1675 WASH 1680 WASH 8638 DAVIS 8640 DAVIS 8641 DAVIS

Well Name	1675 WASH	1680 WASH	8638 DAVIS	8640 DAVIS	8641 DAVIS
Benzene/ppb	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Bromobenzene/ppb	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
Bromodichloromethane/ppb	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Bromoform/ppb	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45
tert-Butylbenzene/ppb	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
sec-Butylbenzene/ppb	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79
n-Butylbenzene/ppb	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71
Carbon Tetrachloride/ppb	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
Chlorobenzene/ppb	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
Chloroethane/ppb	< 0.61	< 0.61	< 0.61	< 0.61	< 0.61
Chloroform/ppb	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
Chloromethane/ppb	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54
2-Chlorotoluene/ppb	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
4-Chlorotoluene/ppb	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
1,2-Dibromo-3-chloropropane/ppb	< 2.96	< 2.96	< 2.96	< 2.96	< 2.96
Dibromochloromethane/ppb	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
1,4-Dichlorobenzene/ppb	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
1,3-Dichlorobenzene/ppb	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85
1,2-Dichlorobenzene/ppb	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86
Dichlorodifluoromethane/ppb	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
1,2-Dichloroethane/ppb	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
1,1-Dichloroethane/ppb	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
1,1-Dichloroethene/ppb	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42
cis-1,2-Dichloroethene/ppb	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37
trans-1,2-Dichloroethene/ppb	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34
1,2-Dichloropropane/ppb	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
1,3-Dichloropropane/ppb	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
trans-1,3-Dichloropropene/ppm	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
cis-1,3-Dichloropropene/ppm	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
Di-isopropyl ether/ppb	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
EDB (1,2-Dibromoethane)/ppb	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34
Ethylbenzene/ppb	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
Hexachlorobutadiene/ppb	< 1.34	< 1.34	< 1.34	< 1.34	< 1.34
Isopropylbenzene/ppb	< 0.78	< 0.78	< 0.78	< 0.78	< 0.78
p-Isopropyltoluene/ppb	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
Methylene chloride/ppb	< 1.32	< 1.32	< 1.32	< 1.32	< 1.32
Methyl tert-butyl ether (MTBE)/ppb	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
Naphthalene/ppb	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1
n-Propylbenzene/ppb	< 0.61	< 0.61	< 0.61	< 0.61	< 0.61
1,1,2,2-Tetrachloroethane/ppb	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,1,1,2-Tetrachloroethane/ppb	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
Tetrachloroethene (PCE)/ppb	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
Toluene/ppb	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
1,2,4-Trichlorobenzene/ppb	< 1.15	< 1.15	< 1.15	< 1.15	< 1.15
1,2,3-Trichlorobenzene/ppb	< 1.71	< 1.71	< 1.71	< 1.71	< 1.71
1,1,1-Trichloroethane/ppb	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
1,1,2-Trichloroethane/ppb	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42
Trichloroethene (TCE)/ppb	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Trichlorofluoromethane/ppb	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
1,2,4-Trimethylbenzene/ppb	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
1,3,5-Trimethylbenzene/ppb	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63
Vinyl Chloride/ppb	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
m&p-Xylene/ppb	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43
o-Xylene/ppb	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29

ENFORCE MENT STANDARD = ES - Bold	PREVENTIVE ACTION LIMIT = PAL - Italics
<b>5</b>	<i>0.5</i>
==	==
<b>0.6</b>	<i>0.06</i>
<b>4.4</b>	<i>0.44</i>
==	==
==	==
<b>5</b>	<i>0.5</i>
==	==
<b>400</b>	<i>80</i>
<b>6</b>	<i>0.6</i>
<b>30</b>	<i>3</i>
==	==
==	==
<b>0.2</b>	<i>0.02</i>
<b>60</b>	<i>6</i>
<b>75</b>	<i>15</i>
<b>600</b>	<i>120</i>
<b>600</b>	<i>60</i>
<b>1000</b>	<i>200</i>
<b>5</b>	<i>0.5</i>
<b>850</b>	<i>85</i>
<b>7</b>	<i>0.7</i>
<b>70</b>	<i>7</i>
<b>100</b>	<i>20</i>
<b>5</b>	<i>0.5</i>
==	==
==	==
<b>0.4</b>	<i>0.04</i>
==	==
<b>0.05</b>	<i>0.005</i>
<b>700</b>	<i>140</i>
==	==
==	==
<b>5</b>	<i>0.5</i>
<b>60</b>	<i>12</i>
<b>100</b>	<i>10</i>
==	==
<b>0.2</b>	<i>0.02</i>
<b>70</b>	<i>7</i>
<b>5</b>	<i>0.5</i>
<b>800</b>	<i>160</i>
<b>70</b>	<i>14</i>
==	==
<b>200</b>	<i>40</i>
<b>5</b>	<i>0.5</i>
<b>5</b>	<i>0.5</i>
==	==
<b>Total TMB's 480</b>	<i>Total TMB's 96</i>
<b>0.2</b>	<i>0.02</i>
<b>Total Xylenes 2000</b>	<i>Total Xylenes 400</i>

NS = not sampled, NM = Not Measured  
 Q = Analyte detected above laboratory method detection limit but below practical quantitation limit.  
 = = No Exceedences  
 (ppb) = parts per billion  
 (ppm) = parts per million  
 "J" Flag: Analyte detected between LOD and LOQ LOD Limit of Detection LOQ Limit of Quantitation

A.4 Vapor Analytical Table  
 Erfurth's Citgo BRRTS# 03-13-187588  
 BY METCO

Sub-Slab Sampling conducted on January 30, 2018

**WDNR**  
**Residential**  
**Sub-Slab Vapor Action**  
**Levels for Various VOCs**  
**Quick Look-Up Table**  
**Updated November, 2017**  
 (ug/m<sup>3</sup>)

Sample ID	SS-1	SS-2	SS-3	SS-4	SS-5	SS-6		
Benzene – ug/m <sup>3</sup>	2.8	<0.22	<0.22	<0.21	<0.22	<0.22	120	c
Carbon Tetrachloride – ug/m <sup>3</sup>	NS	NS	NS	NS	NS	NS	160	c
Chloroform – ug/m <sup>3</sup>	NS	NS	NS	NS	NS	NS	40	c
Chloromethane – ug/m <sup>3</sup>	NS	NS	NS	NS	NS	NS	3100	n
Dichlorodifluoromethane – ug/m <sup>3</sup>	NS	NS	NS	NS	NS	NS	3300	n
1,1-Dichloroethane (1,1-DCA) – ug/m <sup>3</sup>	NS	NS	NS	NS	NS	NS	600	c
1,2-Dichloroethane (1,2-DCA) – ug/m <sup>3</sup>	NS	NS	NS	NS	NS	NS	37	c
1,1-Dichloroethylene (1,1-DCE) – ug/m <sup>3</sup>	NS	NS	NS	NS	NS	NS	7000	n
1,2-Dichloroethylene (cis and trans) - ug/m <sup>3</sup>	NS	NS	NS	NS	NS	NS	NA	-
Ethylbenzene – ug/m <sup>3</sup>	3.3	6.0	11.2	5.0	6.5	6.0	370	c
Methylene chloride – ug/m <sup>3</sup>	NS	NS	NS	NS	NS	NS	21000	n
Methyl Tert-Butyl Ether (MTBE) – ug/m <sup>3</sup>	<0.93	<0.97	<0.97	<0.93	<0.96	<0.97	3700	c
Naphthalene – ug/m <sup>3</sup>	<0.83	<0.87	<0.87	16.0	<0.86	<0.87	28	c
Tetrachloroethylene -ug/m <sup>3</sup>	NS	NS	NS	NS	NS	NS	1400	n
Toluene – ug/m <sup>3</sup>	16.9	1.2	2.3	0.76J	0.74J	2.4	170000	n
1,1,1-Trichloroethane – ug/m <sup>3</sup>	NS	NS	NS	NS	NS	NS	170000	n
Trichloroethylene – ug/m <sup>3</sup>	NS	NS	NS	NS	NS	NS	70	n
Trichlorofluoromethane (Halcarbon 11) – ug/m <sup>3</sup>	NS	NS	NS	NS	NS	NS	NA	-
Trimethylbenzene (1,2,4) – ug/m <sup>3</sup>	1.8	3.2	5.3	3.7	3.9	4.2	2100	n
Trimethylbenzene (1,3,5) – ug/m <sup>3</sup>	<0.57	0.98J	1.8	1.1J	1.2J	1.2J	2100	n
Vinyl chloride – ug/m <sup>3</sup>	NS	NS	NS	NS	NS	NS	57	c
Xylene (total) -ug/m <sup>3</sup>	15.8	32.6	58.5	28	36.2	34	3300	n

ug/m<sup>3</sup> = Micrograms per cubic meter.

< = Less than the reporting limit indicated in parentheses.

**Bold = Sub-Slab Standard Exceedance**

c = Carcinogen

n = Non Carcinogen

J = between Limit of Detection (LOD) and Limit of Quantitation (LOQ)

\* Please note that other VOCs were detected that are not on the WDNR Sub-Slab Vapor Action Levels Quick Look-Up Table.

B = Compound was found in the blank and sample

E = Result exceeded calibration range

- = Inhalation toxicity values are not available from U.S. EPA

**A.7 Other**  
**Groundwater NA Indicator Results**  
**Erfurth's Citgo BRRTS# 03-13-187588**

**Well MW-1**

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Manganese (ppb)
08/19/13	0.98	6.44	-68	15.00	9.54	NS	NS	NS	NS
08/19/14	1.41	5.03	37	13.50	5.30	NS	NS	NS	NS
11/30/16	0.35	6.48	50	11.60	1277	NS	NS	NS	NS
01/30/18	1.37	6.92	38	6.90	1716	NS	NS	NS	NS
<b>ENFORCE MENT STANDARD = ES - Bold</b>						10	-	-	300
<b>PREVENTIVE ACTION LIMIT = PAL - Italics</b>						2	-	-	60

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured

Note: Elevations are presented in feet mean sea level (msl).

**Well MW-2**

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Manganese (ppb)
08/19/13	0.68	6.78	-99	15.60	3215	NS	NS	NS	NS
08/19/14	1.02	6.14	-69	15.70	2.7	NS	NS	NS	NS
11/30/16	1.57	6.85	14	11.70	1214	NS	NS	NS	NS
01/30/18	1.63	7.11	-14	6.80	1993	NS	NS	NS	NS
<b>ENFORCE MENT STANDARD = ES - Bold</b>						10	-	-	300
<b>PREVENTIVE ACTION LIMIT = PAL - Italics</b>						2	-	-	60

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured

Note: Elevations are presented in feet mean sea level (msl).

**Well MW-3**

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Manganese (ppb)
08/19/13	1.12	6.54	-54	16.40	7.51	NS	NS	NS	NS
08/19/14	2.23	6.58	21	13.50	4.70	NS	NS	NS	NS
11/30/16	1.05	6.69	15	11.70	1328	NS	NS	NS	NS
01/30/18	0.61	7.33	-30	7.60	2738	NS	NS	NS	NS
<b>ENFORCE MENT STANDARD = ES - Bold</b>						10	-	-	300
<b>PREVENTIVE ACTION LIMIT = PAL - Italics</b>						2	-	-	60

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured

Note: Elevations are presented in feet mean sea level (msl).

**A.7 Other**  
**Groundwater NA Indicator Results**  
**Erfurth's Citgo BRRTS# 03-13-187588**

**Well MW-4**

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Manganese (ppb)
08/19/13	0.95	7.02	1	16.40	2701	NS	NS	NS	NS
08/19/14	1.16	6.06	126	13.00	1.30	NS	NS	NS	NS
11/30/16	2.01	6.96	273	11.50	628	NS	NS	NS	NS
01/30/18	6.46	6.30	201	6.50	1246	NS	NS	NS	NS
<b>ENFORCE MENT STANDARD = ES - Bold</b>						10	-	-	300
<b>PREVENTIVE ACTION LIMIT = PAL - Italics</b>						2	-	-	60

(ppb) = parts per billion (ppm) = parts per million

ns = not sampled nm = not measured

Note: Elevations are presented in feet mean sea level (msl).

**Well MW-5**

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissoived Iron (ppm)	Man-ganese (ppb)
08/19/13	0.97	6.99	-79	17.20	3964	NS	NS	NS	NS
08/19/14	1.31	6.05	-63	13.60	2.70	NS	NS	NS	NS
11/30/16	1.31	6.91	7	11.20	1556	NS	NS	NS	NS
01/30/18	3.86	6.68	111	6.90	622	NS	NS	NS	NS
<b>ENFORCE MENT STANDARD = ES - Bold</b>						10	-	-	300
<b>PREVENTIVE ACTION LIMIT = PAL - Italics</b>						2	-	-	60

(ppb) = parts per billion (ppm) = parts per million

ns = not sampled nm = not measured

Note: Elevations are presented in feet mean sea level (msl).

**Well MW-6**

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Man-ganese (ppb)
08/19/13	0.81	6.49	79	17.20	6.63	NS	NS	NS	NS
08/19/14	1.26	6.67	180	14.70	4.20	NS	NS	NS	NS
11/30/16	2.56	6.68	257	11.80	1296	NS	NS	NS	NS
01/30/18	NOT SAMPLED					NS	NS	NS	NS
<b>ENFORCE MENT STANDARD = ES - Bold</b>						10	-	-	300
<b>PREVENTIVE ACTION LIMIT = PAL - Italics</b>						2	-	-	60

(ppb) = parts per billion (ppm) = parts per million

ns = not sampled nm = not measured

Note: Elevations are presented in feet mean sea level (msl).

**A.7 Other**  
**Groundwater NA Indicator Results**  
**Erfurth's Citgo BRRTS# 03-13-187588**

**Well MW-7R**

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Manganese (ppb)
08/19/13	1.81	7.19	-69	16.80	1256	NS	NS	NS	NS
08/19/14	1.12	6.63	149	16.80	2	NS	NS	NS	NS
11/30/16	1.24	7.17	165	11.80	933	NS	NS	NS	NS
01/30/18	2.27	7.18	46	7.00	2384	NS	NS	NS	NS
<b>ENFORCE MENT STANDARD = ES – Bold</b>						10	-	-	300
<b>PREVENTIVE ACTION LIMIT = PAL - Italics</b>						2	-	-	60

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured  
 Note: Elevations are presented in feet mean sea level (msl).

**Well MW-8**

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Manganese (ppb)
09/27/12	0.88	6.78	1	15.8	4789	0.35	20.2	20200	4070
08/19/13	0.67	6.71	-71	17.00	6.59	NS	NS	NS	NS
08/19/14	0.97	6.19	-35	17.00	5.40	NS	NS	NS	NS
11/30/16	0.87	6.39	2	11.30	1478	NS	NS	NS	NS
01/30/18	0.90	6.57	-61	7.40	1528	NS	NS	NS	NS
<b>ENFORCE MENT STANDARD = ES – Bold</b>						10	-	-	300
<b>PREVENTIVE ACTION LIMIT = PAL - Italics</b>						2	-	-	60

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured  
 Note: Elevations are presented in feet mean sea level (msl).

**Well MW-10**

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Manganese (ppb)
09/27/12	0.45	7.31	-27	15.3	3040	0.89	98.1	11900	1710
08/19/13	0.86	6.94	-119	18.30	3769	NS	NS	NS	NS
08/19/14	1.21	7.10	-69	17.20	2.70	NS	NS	NS	NS
11/30/16	2.67	6.75	111	11.30	1216	NS	NS	NS	NS
01/30/18	1.74	7.09	18	6.50	391	NS	NS	NS	NS
<b>ENFORCE MENT STANDARD = ES – Bold</b>						10	-	-	300
<b>PREVENTIVE ACTION LIMIT = PAL - Italics</b>						2	-	-	60

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured  
 Note: Elevations are presented in feet mean sea level (msl).

**A.7 Other**  
**Groundwater NA Indicator Results**  
**Erfurth's Citgo BRRTS# 03-13-187588**

**Well MW-11 (Anderson Property)**

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Manganese (ppb)
09/27/12	0.71	7.33	46	14.5	1409	0.16	20.9	200	3830
08/19/13	1.00	6.79	-50	17.9	1515	NS	NS	NS	NS
11/19/13	0.35	6.95	-76	12.6	1413	NS	NS	NS	NS
02/18/14	0.96	6.75	-85	8.5	1391	NS	NS	NS	NS
03/17/16	1.48	5.37	-18	7.7	633	NS	NS	NS	NS
09/07/16	0.77	6.78	-82	15.2	1140	NS	NS	NS	NS
12/05/16	1.07	6.43	-14	13.3	356	NS	NS	NS	NS
03/02/17	1.67	7.01	-24	6.4	1014	NS	NS	NS	NS
<b>ENFORCEMENT STANDARD = ES - Bold</b>						10	-	-	300
<b>PREVENTIVE ACTION LIMIT = PAL - Italics</b>						2	-	-	60

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured  
 Note: Elevations are presented in feet mean sea level (msl).

**Well MW-12 (Anderson Property)**

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppb)	Manganese (ppb)
09/27/12	0.56	7.23	240	13.2	1374	5.28	57.4	<60	433
08/19/13	1.00	6.73	62	17.8	1335	NS	NS	NS	NS
11/19/13	1.35	6.99	227	10.5	1382	NS	NS	NS	NS
02/18/14	1.77	6.69	264	7.8	1373	NS	NS	NS	NS
03/17/16	2.53	5.44	232	6.2	447	NS	NS	NS	NS
09/07/16	0.65	6.47	309	16.0	1295	NS	NS	NS	NS
12/05/16	4.17	7.03	261	13.0	1234	NS	NS	NS	NS
03/02/17	4.35	6.78	290	6.2	1001	NS	NS	NS	NS
<b>ENFORCEMENT STANDARD = ES - Bold</b>						10	-	-	300
<b>PREVENTIVE ACTION LIMIT = PAL - Italics</b>						2	-	-	60

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured  
 Note: Elevations are presented in feet mean sea level (msl).

**Well MW-13 (Anderson Property)**

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppb)	Manganese (ppb)
09/27/12	2.69	7.49	252	12.7	1856	1.37	16.3	<60	733
08/19/13	2.15	7.13	107	17.5	1074	NS	NS	NS	NS
11/19/13	0.53	7.30	187	10.9	1657	NS	NS	NS	NS
02/18/14	1.55	7.27	253	7.1	1559	NS	NS	NS	NS
03/17/16	1.96	5.21	315	6.5	488	NS	NS	NS	NS
09/07/16	0.91	6.89	289	14.4	1037	NS	NS	NS	NS
12/05/16	3.06	6.69	227	13.1	476	NS	NS	NS	NS
03/02/17	4.42	7.14	268	6.0	1047	NS	NS	NS	NS
<b>ENFORCEMENT STANDARD = ES - Bold</b>						10	-	-	300
<b>PREVENTIVE ACTION LIMIT = PAL - Italics</b>						2	-	-	60

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured  
 Note: Elevations are presented in feet mean sea level (msl).

A.7 Other

Groundwater NA Indicator Results  
 Erfurth's Citgo BRRTS# 03-13-187588

Well MW-14 (Anderson Property)

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppb)	Manganese (ppb)
09/27/12	1.12	6.69	302	15.3	1797	2.59	34.5	<60	3120
08/19/13	1.39	6.68	60	16.7	2473	NS	NS	NS	NS
11/19/13	2.71	6.63	204	12.2	1100	NS	NS	NS	NS
02/18/14	2.53	6.74	262	7.1	2267	NS	NS	NS	NS
03/17/16	1.73	5.84	240	7.1	856	NS	NS	NS	NS
09/07/16	1.74	6.76	204	18.4	2319	NS	NS	NS	NS
12/05/16	3.96	6.94	248	12.9	801	NS	NS	NS	NS
03/02/17	6.32	6.87	265	5.9	1893	NS	NS	NS	NS
ENFORCE MENT STANDARD = <b>ES - Bold</b>						10	-	-	300
PREVENTIVE ACTION LIMIT = <i>PAL - Italics</i>						2	-	-	60

(ppb) = parts per billion (ppm) = parts per million

ns = not sampled nm = not measured

Note: Elevations are presented in feet mean sea level (msl).

Well MW-PZ-1

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Manganese (ppb)
08/19/13	4.44	7.23	38.00	12.50	581.00	NS	NS	NS	NS
08/19/14	4.66	6.58	311.00	13.60	0.50	NS	NS	NS	NS
11/30/16	5.62	7.14	232.00	11.60	498.00	NS	NS	NS	NS
01/30/18	NOT SAMPLED					NS	NS	NS	NS
ENFORCE MENT STANDARD = <b>ES - Bold</b>						10	-	-	300
PREVENTIVE ACTION LIMIT = <i>PAL - Italics</i>						2	-	-	60

(ppb) = parts per billion (ppm) = parts per million

ns = not sampled nm = not measured

Note: Elevations are presented in feet mean sea level (msl).



**A.6 Water Level Elevations**  
**Erfurth's Citgo BRRTS# 03-13-187588**  
**Mount Vernon, Wisconsin**

	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7/7R	MW-8	MW-9	MW-10	PZ-1
Ground Surface (feet msl)	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
PVC top (feet msl)	911.24	912.07	912.26	907.72	911.44	914.06	914.09	906.60	908.87	905.12	912.13
Well Depth (feet)	22.00	21.00	22.00	20.00	22.00	21.00	21.00	16.00	17.00	15.00	40.00
Top of screen (feet msl)	899.24	901.07	900.26	897.72	899.44	903.06	903.09	900.60	901.87	900.12	877.13
Bottom of screen (feet msl)	889.24	891.07	890.26	887.72	889.44	893.06	893.09	890.60	891.87	890.12	872.13
<b>Depth to Water From Top of PVC (feet)</b>											
12/21/2004	14.87	14.92	16.55	11.47	NM	NM	NM	NM	NM	NI	NM
2/16/2005	14.48	14.30	16.18	11.03	NM	NM	NM	NM	NM	NI	NM
6/26/2007	14.25	14.40	16.27	10.90	15.28	13.23	14.31	9.61	10.60	NI	15.12
9/25/2007	12.91	12.97	14.92	9.66	14.12	11.58	13.49	8.43	9.32	NI	13.89
12/17/2007	14.29	14.62	16.26	10.97	15.43	14.02	15.26	CNL	10.68	NI	15.21
3/17/2008	12.79	11.81	14.56	8.81	13.19	9.39	11.49	8.11	8.27	NI	13.77
9/21/2009	14.07	NM	NM	10.87	15.51	14.01	14.83	9.79	CAR	NI	15.10
12/14/2009	14.24	14.26	16.37	10.88	15.31	13.85	14.71	9.77	SNOW	NI	15.31
3/15/2010	13.06	11.54	14.19	9.00	13.55	11.15	10.16	8.53	CNL	NI	14.15
6/10/2010	12.81	12.21	NM	9.58	14.09	11.33	10.81	8.48	CNL	NI	13.97
3/8/2011	14.01	FP	FP	10.14	14.86	12.41	13.48	FP	CNL	6.20	15.02
6/9/2011	13.25	12.64	FP	9.41	14.36	11.76	14.83	9.04	PO	7.73	14.43
9/12/2011	14.28	14.14	16.54	11.04	15.55	14.20	14.17	10.20	PO	8.25	15.15
12/8/2011	14.35	14.00	16.37	10.85	15.21	13.58	14.09	9.90	PO	8.35	15.37
8/19/2013	14.00	13.92	15.86	10.69	15.21	13.13	13.45	9.55	PO	8.03	14.87
8/19/2014	14.25	14.26	FP	10.91	15.48	13.72	14.34	9.91	PO	8.37	15.20
11/30/2016	13.15	11.85	15.09	8.95	14.07	11.23	12.72	8.85	PO	7.57	14.14
1/30/2018	14.48	14.45	16.15	11.13	15.65	14.51	15.33	FP	PO	8.72	15.47
<b>Depth to Water From Ground Surface (feet)</b>											
12/21/2004	NM	NM	NM	NM	NM	NM	NM	NM	NM	NI	NM
2/16/2005	NM	NM	NM	NM	NM	NM	NM	NM	NM	NI	NM
6/26/2007	NM	NM	NM	NM	NM	NM	NM	NM	NM	NI	NM
9/25/2007	NM	NM	NM	NM	NM	NM	NM	NM	NM	NI	NM
12/17/2007	NM	NM	NM	NM	NM	NM	NM	CNL	NM	NI	NM
3/17/2008	NM	NM	NM	NM	NM	NM	NM	NM	NM	NI	NM
9/21/2009	NM	NM	NM	NM	NM	NM	NM	NM	CAR	NI	NM
12/14/2009	NM	NM	NM	NM	NM	NM	NM	NM	SNOW	NI	NM
3/15/2010	NM	NM	NM	NM	NM	NM	NM	NM	CNL	NI	NM
6/10/2010	NM	NM	NM	NM	NM	NM	NM	NM	CNL	NI	NM
3/8/2011	NM	FP	FP	NM	NM	NM	NM	FP	CNL	NM	NM
6/9/2011	NM	NM	FP	NM	NM	NM	NM	NM	PO	NM	NM
9/12/2011	NM	NM	NM	NM	NM	NM	NM	NM	PO	NM	NM
12/8/2011	NM	NM	NM	NM	NM	NM	NM	NM	PO	NM	NM
8/19/2013	NM	NM	NM	NM	NM	NM	NM	NM	PO	NM	NM
8/19/2014	NM	NM	FP	NM	NM	NM	NM	NM	PO	NM	NM
11/30/2016	NM	NM	NM	NM	NM	NM	NM	NM	PO	NM	NM
1/30/2018	NM	NM	NM	NM	NM	NM	NM	FP	PO	NM	NM
<b>Groundwater Elevation (feet msl)</b>											
12/21/2004	896.37	897.15	895.71	896.25	NM	NM	NM	NM	NM	NI	NM
2/16/2005	896.76	897.77	896.10	896.69	NM	NM	NM	NM	NM	NI	NM
6/26/2007	896.99	897.67	895.99	896.82	896.16	900.83	899.78	896.99	898.27	NI	897.01
9/25/2007	898.33	899.10	897.34	898.06	897.32	902.48	900.60	898.17	899.55	NI	898.24
12/17/2007	896.95	897.45	896.00	896.75	896.01	900.04	898.83	CNL	898.19	NI	896.92
3/17/2008	898.45	900.26	897.70	898.91	898.25	904.67	902.60	898.49	900.60	NI	898.36
9/21/2009	897.17	NM	NM	896.85	895.93	900.05	899.26	896.81	CAR	NI	897.03
12/14/2009	897.00	897.81	895.89	896.84	896.13	900.21	899.38	896.83	SNOW	NI	896.82
3/15/2010	898.18	900.53	898.07	898.72	897.89	902.91	903.93	898.07	CNL	NI	897.98
6/10/2010	898.43	899.86	NM	898.14	897.35	902.73	903.28	898.12	CNL	NI	898.16
3/8/2011	897.23	FP	FP	897.58	896.58	901.65	900.61	FP	CNL	898.92	897.11
6/9/2011	897.99	899.43	FP	898.31	897.08	902.30	899.26	897.56	PO	897.39	897.70
9/12/2011	896.96	897.93	895.72	896.68	895.89	899.86	899.92	896.40	PO	896.87	896.98
12/8/2011	896.89	898.07	895.89	896.87	896.23	900.48	900.00	896.70	PO	896.77	896.76
8/19/2013	897.24	898.15	896.40	897.03	896.23	900.93	900.64	897.05	PO	897.09	897.26
8/19/2014	896.96	897.81	FP	896.81	895.96	900.34	899.75	896.69	PO	896.75	896.93
11/30/2016	898.09	900.22	897.17	898.77	897.37	902.83	901.37	897.75	PO	897.55	897.99
1/30/2018								FP	PO		

Note: Elevations are presented in feet mean sea level (msl).  
 NM = Not Measured  
 CNL = Could Not Locate  
 CAR = Car Over Well  
 SNOW = Snow Over Well  
 PO = Paved Over  
 FP = Free Product

A.7. Other

Summary of Free Product Levels & Recovery  
 Erfurth's Citgo BRRS# 03-13-187588

DATE		MW-2	MW-3	MW-7/7R	MW-8	GALS REC./PERIOD	TOT GALS RECOVERED
06/04/07	Inches of FP	5	10		0	0.85	0.85
	Gals Rec. w/ Bailer	0.25	0.6	NA	0		
	Gals Rec. w/ Absorbent Sock	No Sock	No Sock		No Sock		
6/5/2007	Inches of FP	1.5	1.5		0	0.20	1.05
	Gals Rec. w/ Bailer	0.1	0.1	NA	0		
	Gals Rec. w/ Absorbent Sock	No Sock	No Sock		No Sock		
6/26/2007	Inches of FP	3	1		0	0.132	1.182
	Gals Rec. w/ Bailer	0.088	0.044	NA	0		
	Gals Rec. w/ Absorbent Sock	No Sock	No Sock		No Sock		
7/3/2007	Inches of FP	2	3		0	0.03	1.212
	Gals Rec. w/ Bailer	0.01	0.02	NA	0		
	Gals Rec. w/ Absorbent Sock	No Sock	No Sock		No Sock		
7/11/2007	Inches of FP	3	5		0	0.06	1.272
	Gals Rec. w/ Bailer	0.02	0.04	NA	0		
	Gals Rec. w/ Absorbent Sock	No Sock	No Sock		No Sock		
7/17/2007	Inches of FP	1	3		0	0.03	1.30
	Gals Rec. w/ Bailer	0.01	0.02	NA	0		
	Gals Rec. w/ Absorbent Sock	No Sock	No Sock		No Sock		
8/16/2007	Inches of FP	0.75	0		0	0.01	1.312
	Gals Rec. w/ Bailer	0.01	0	NA	0		
	Gals Rec. w/ Absorbent Sock	No Sock	No Sock		No Sock		
9/25/2007	Inches of FP	1	0.5	7	0	0.14	1.452
	Gals Rec. w/ Bailer	0.01	0.01	0.12	0		
	Gals Rec. w/ Absorbent Sock	No Sock	No Sock	No Sock	No Sock		
10/16/2007	Inches of FP	0.5	0.5	3	0	0.11	1.562
	Gals Rec. w/ Bailer	0.01	0.01	0.09	0		
	Gals Rec. w/ Absorbent Sock	No Sock	No Sock	No Sock	No Sock		
11/14/2007	Inches of FP	0.5	0.5	3	0	0.07	1.632
	Gals Rec. w/ Bailer	0.01	0.01	0.05	0		
	Gals Rec. w/ Absorbent Sock	No Sock	No Sock	No Sock	No Sock		
12/17/2007	Inches of FP	1	1	2	0	0.20	1.832
	Gals Rec. w/ Bailer	0.01	0.02	0.06	0		
	Gals Rec. w/ Absorbent Sock	No Sock	No Sock	0.11	No Sock		
1/10/2008	Inches of FP	0	0	Could	0	0.00	1.832
	Gals Rec. w/ Bailer	0	0	Not	0		
	Gals Rec. w/ Absorbent Sock	No Sock	No Sock	Access	No Sock		
2/26/2008	Inches of FP	0	0.5	Could	0	0.04	1.872
	Gals Rec. w/ Bailer	0	0.04	Not	0		
	Gals Rec. w/ Absorbent Sock	No Sock	No Sock	Access	No Sock		
3/17/2008	Inches of FP	0	0	0.5	0	0.01	1.882
	Gals Rec. w/ Bailer	0	0	0.01	0		
	Gals Rec. w/ Absorbent Sock	No Sock	No Sock	No Sock	No Sock		
4/23/2008	Inches of FP	0	20	26	0	1.78	3.662
	Gals Rec. w/ Bailer	0	1.15	0.38	0		
	Gals Rec. w/ Absorbent Sock	No Sock	No Sock	0.25	No Sock		
9/21/2009	Inches of FP	0.5	3	0	0	0.31	3.97
	Gals Rec. w/ Bailer	0.02	0.29	0	0		
	Gals Rec. w/ Absorbent Sock	No Sock	No Sock	No Sock	No Sock		
12/14/2009	Inches of FP	0.5	4	0	0	0.16	4.13
	Gals Rec. w/ Bailer	0.01	0.15	0	0		
	Gals Rec. w/ Absorbent Sock	No Sock	No Sock	No Sock	No Sock		
3/15/2010	Inches of FP	0	4	0	0	0.41	4.54
	Gals Rec. w/ Bailer	0	0.41	0	0		
	Gals Rec. w/ Absorbent Sock	No Sock	No Sock	No Sock	No Sock		
6/10/2010	Inches of FP	0	4	0	0	0.16	4.70
	Gals Rec. w/ Bailer	0	0.16	0	0		
	Gals Rec. w/ Absorbent Sock	No Sock	No Sock	No Sock	No Sock		
3/8/2011	Inches of FP	0.25	2	0	0.25	0.188	4.888
	Gals Rec. w/ Bailer	0.004	0.18	0	0.004		
	Gals Rec. w/ Absorbent Sock	No Sock	No Sock	No Sock	No Sock		
6/9/2011	Inches of FP	0	2	0	0	0.230	5.118
	Gals Rec. w/ Bailer	0	0.23	0	0		
	Gals Rec. w/ Absorbent Sock	No Sock	No Sock	No Sock	No Sock		
9/12/2011	Inches of FP	0	2.5	0	2.5	0.220	5.338
	Gals Rec. w/ Bailer	0	0.18	0	0.040		
	Gals Rec. w/ Absorbent Sock	No Sock	No Sock	No Sock	No Sock		
12/8/2011	Inches of FP	0	1.5	0	0.25	0.082	5.419
	Gals Rec. w/ Bailer	0	0.08	0	0.002		
	Gals Rec. w/ Absorbent Sock	No Sock	No Sock	No Sock	No Sock		
09/27/12	Inches of FP	0	0	0	4	0.06	5.479
	Gals Rec. w/ Bailer	0	0	0	0.06		
	Gals Rec. w/ Absorbent Sock	No Sock	No Sock	No Sock	No Sock		
08/19/13	Inches of FP	0.25	0	0	0	0.002	5.481
	Gals Rec. w/ Bailer	0.002	0	0	0		
	Gals Rec. w/ Absorbent Sock	No Sock	No Sock	No Sock	No Sock		
08/19/14	Inches of FP	0	3	0	0	0.250	5.730
	Gals Rec. w/ Bailer	0	0.19	0	0		
	Gals Rec. w/ Absorbent Sock	0.06	No Sock	No Sock	No Sock		
11/30/16	Inches of FP	0	0	0	0	0.000	5.730
	Gals Rec. w/ Bailer	0	0	0	0		
	Gals Rec. w/ Absorbent Sock	0	No Sock	No Sock	No Sock		
01/30/18	Inches of FP	0	0	0	0.5	0.010	5.740
	Gals Rec. w/ Bailer	0	0	0	0.01		
	Gals Rec. w/ Absorbent Sock	0	No Sock	No Sock	No Sock		

Project No.: B1800253 Sample ID: SS-1  
 Project Name: Estueths Ctgo Date: 1-30-18  
 Location: Mt. Vernon/Vernona WI Personnel: David Bradshaw

Radon or VOC mitigation system in building?  Present  Operating

09110

**Equipment**

- Air canister & connectors
- Air Chain-of-Custody form
- Hammer drill and bit(s)
- Extension cord
- Teflon-lined PE tubing
- Vapor Pin kit
- Vapor Pin toolbox
- PID # 0014
- Covers (permanent installation)
- Shop-Vac / broom & dustpan
- Concrete patch

**Vapor Pin Installation**


Installation Date: 1-30-18

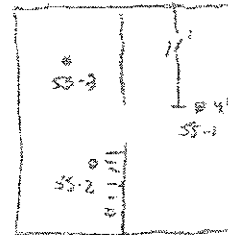
Installation Type:

- Temporary
- Permanent
  - Stainless steel cover
  - Plastic cover

Concrete Thickness (inches): 4.5"

- Concrete patch (if temporary)

Davis St.   
 Sketch of pin location with measurements to walls:



**Soil Vapor Sampling**

Relative sub-slab pressure (±pascals): -1" Hg

Purged 200 mL air prior to sampling with:

- Pump
- Syringe
- \_\_\_\_\_

PID Reading (ppm): 0.0

Sampling Canister ID: 1282

- 1 Liter
- 6 Liters

Flow Controller ID: FC0796

- None
- 200 mL/min

Canister Vacuum on Label ("Hg): -30

Canister Initial Vacuum ("Hg): -30

Do not use the canister if the difference between the label and initial vacuum is >4"Hg or if the initial is <25"Hg.

Collection Start Time: 11:13:40

The final vacuum must be <5"Hg or at least 20"Hg less than the initial vacuum.

Canister Final Vacuum ("Hg): -3

Collection End Time: 12:54:00

Notes/Observations:

Water dam, shut-in tests, good

**Vapor Pin Installation and Soil Vapor Sampling**

Project No.: B1800253 Sample ID: SS-2  
Project Name: Ecfustus Ctgo Date: 1-30-18  
Location: Mt. Vernon/Vernon WI Personnel: David Bradshaw

Radon or VOC mitigation system in building?  Present  Operating

09:20

**Equipment**

- Air canister & connectors
- Air Chain-of-Custody form
- Hammer drill and bit(s)
- Extension cord
- Teflon-lined PE tubing
- Vapor Pin kit
- Vapor Pin toolbox
- PID # 0014
- Covers (permanent installation)
- Shop-Vac / broom & dustpan
- Concrete patch

**Vapor Pin Installation**

Installation Date: 1-30-18

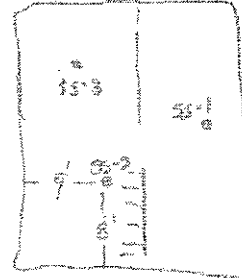
Installation Type:

- Temporary
- Permanent
  - Stainless steel cover
  - Plastic cover

Concrete Thickness (inches): 2"

- Concrete patch (if temporary)

Davis St. <sup>N</sup>  
Sketch of pin location with measurements to walls:



**Soil Vapor Sampling**

Relative sub-slab pressure (±pascals): -1" H<sub>2</sub>O

Purged 200 mL air prior to sampling with:

- Pump
- Syringe
- \_\_\_\_\_

PID Reading (ppm): 0.0

Sampling Canister ID: 1233

- 1 Liter
- 6 Liters

Flow Controller ID: FC 2847

- None
- 200 mL/min

Canister Vacuum on Label ("Hg): -30

Canister Initial Vacuum ("Hg): -29

Do not use the canister if the difference between the label and initial vacuum is >4"Hg or if the initial is <25"Hg.

Collection Start Time: 12:24:00

The final vacuum must be <5"Hg or at least 20"Hg less than the initial vacuum.

Canister Final Vacuum ("Hg): -5

Collection End Time: 13:01:10

**Notes/Observations:**

Water dam, shut-in test, good

Project No.: B1800253 Sample ID: SS-3  
Project Name: Ecfusths Ctgo Date: 1-30-18  
Location: Ht. Vesona/Vesona WI Personnel: David Bradshaw

Radon or VOC mitigation system in building?  Present  Operating

89.22

**Equipment**

- Air canister & connectors
- Air Chain-of-Custody form
- Hammer drill and bit(s)
- Extension cord
- Teflon-lined PE tubing
- Vapor Pin kit
- Vapor Pin toolbox
- PID # 0014
- Covers (permanent installation)
- Shop-Vac / broom & dustpan
- Concrete patch

**Vapor Pin Installation**

Installation Date: 1-30-18

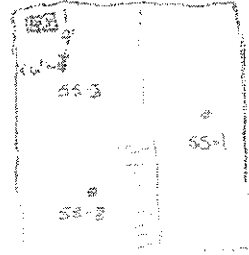
Installation Type:

- Temporary
- Permanent
  - Stainless steel cover
  - Plastic cover

Concrete Thickness (inches): 3.5"

- Concrete patch (if temporary)

Sketch of pin location with measurements to walls:



**Soil Vapor Sampling**

Relative sub-slab pressure ( $\pm$ pascals): 0

Purged 200 mL air prior to sampling with:

- Pump
- Syringe
- \_\_\_\_\_

PID Reading (ppm): 0.0

Sampling Canister ID: 0079

- 1 Liter
- 6 Liters

Flow Controller ID: FC 1128

- None
- 200 mL/min

Canister Vacuum on Label ("Hg): -30

Canister Initial Vacuum ("Hg): -30

Do not use the canister if the difference between the label and initial vacuum is  $>4$ "Hg or if the initial is  $<25$ "Hg.

Collection Start Time: 12:32:05

The final vacuum must be  $<5$ "Hg or at least 20"Hg less than the initial vacuum.

Canister Final Vacuum ("Hg): -5

Collection End Time: 13:10:00

Notes/Observations:

Water Dam, shut-in test; good.

Project No.: B18 00253 Sample ID: SS-4  
 Project Name: Ectustis Ctgo Date: 1-30-18  
 Location: Mt. Vernon/Vernon WI Personnel: David Bradshaw

Radon or VOC mitigation system in building?  Present  Operating

**Equipment**

- |  |   |  |
|--|---|--|
| <input type="checkbox"/> Air canister & connectors | <input type="checkbox"/> Teflon-lined PE tubing | <input type="checkbox"/> Covers (permanent installation) |
| <input type="checkbox"/> Air Chain-of-Custody form | <input type="checkbox"/> Vapor Pin kit          | <input type="checkbox"/> Shop-Vac / broom & dustpan      |
| <input type="checkbox"/> Hammer drill and bit(s)   | <input type="checkbox"/> Vapor Pin toolbox      | <input type="checkbox"/> Concrete patch                  |
| <input type="checkbox"/> Extension cord            | <input type="checkbox"/> PID # <u>0014</u>      |  |

**Vapor Pin Installation**

Installation Date: 1-30-18

Installation Type:

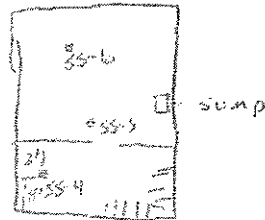
- Temporary  
 Permanent  
      Stainless steel cover  
      Plastic cover

Concrete Thickness (inches): 3.5"

Concrete patch (if temporary)

Davis St

Sketch of pin location with measurements to walls:



**Soil Vapor Sampling**

Relative sub-slab pressure ( $\pm$ pascals): -1" H<sub>2</sub>O

Purged 200 mL air prior to sampling with:

- Pump  
 Syringe  
 \_\_\_\_\_

PID Reading (ppm): 0.0

Sampling Canister ID: 1684

- 1 Liter  6 Liters

Flow Controller ID: FC1156

- None  200 mL/min

Canister Vacuum on Label ("Hg): -30

Canister Initial Vacuum ("Hg): -31

Do not use the canister if the difference between the label and initial vacuum is  $>4$ "Hg or if the initial is  $<25$ "Hg.

Collection Start Time: 13:46:15

The final vacuum must be  $<5$ "Hg or at least 20"Hg less than the initial vacuum.

Canister Final Vacuum ("Hg): -3

Collection End Time: 14:26:35

Notes/Observations:

Water Dam, Shut-in tests, good

Project No.: B1800253 Sample ID: 35-5  
 Project Name: Ecofuchs Citygo Date: 1-30-18  
 Location: Mt. Vernon/Vernona WI Personnel: David Bradshaw

Radon or VOC mitigation system in building?  Present  Operating

**Equipment**

- |  |   |  |
|--|---|--|
| <input type="checkbox"/> Air canister & connectors | <input type="checkbox"/> Teflon-lined PE tubing | <input type="checkbox"/> Covers (permanent installation) |
| <input type="checkbox"/> Air Chain-of-Custody form | <input type="checkbox"/> Vapor Pin kit          | <input type="checkbox"/> Shop-Vac / broom & dustpan      |
| <input type="checkbox"/> Hammer drill and bit(s)   | <input type="checkbox"/> Vapor Pin toolbox      | <input type="checkbox"/> Concrete patch                  |
| <input type="checkbox"/> Extension cord            | <input type="checkbox"/> PID # <u>0019</u>      |  |

**Vapor Pin Installation**


Installation Date: 1-30-18

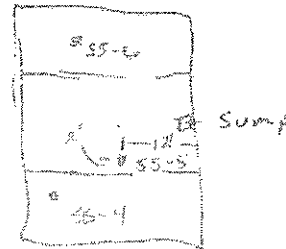
Installation Type:

- Temporary  
 Permanent  
 Stainless steel cover  
 Plastic cover

Concrete Thickness (inches): 4"

- Concrete patch (if temporary)

Davis St   
 Sketch of pin location with measurements to walls:



**Soil Vapor Sampling**

Relative sub-slab pressure (±pascals): 0

Purged 200 mL air prior to sampling with:

- Pump  
 Syringe  
 \_\_\_\_\_

PID Reading (ppm): 0.0

Sampling Canister ID: 0034

- 1 Liter  6 Liters

Flow Controller ID: FC1194

- None  200 mL/min

Canister Vacuum on Label ("Hg): -30

Canister Initial Vacuum ("Hg): -29

Do not use the canister if the difference between the label and initial vacuum is >4"Hg or if the initial is <25"Hg.

Collection Start Time: 13:50:55

The final vacuum must be <5"Hg or at least 20"Hg less than the initial vacuum.

Canister Final Vacuum ("Hg): -3

Collection End Time: 14:30:00

Notes/Observations:



Vapor Pin Installation and Soil Vapor Sampling

Project No.: B1800253 Sample ID: SS-6  
 Project Name: Erfuchs Ctgo Date: 1-30-18  
 Location: Mt. Vernon/Vernona WI Personnel: David Bradshaw

Radon or VOC mitigation system in building?  Present  Operating

Equipment

- Air canister & connectors
- Air Chain-of-Custody form
- Hammer drill and bit(s)
- Extension cord
- Teflon-lined PE tubing
- Vapor Pin kit
- Vapor Pin toolbox
- PID # 0014
- Covers (permanent installation)
- Shop-Vac / broom & dustpan
- Concrete patch

Vapor Pin Installation

Installation Date: 1-30-18

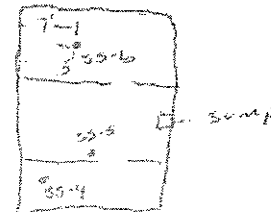
Installation Type:

- Temporary
- Permanent
  - Stainless steel cover
  - Plastic cover

Concrete Thickness (inches): 3"

Concrete patch (if temporary)

Sketch of pin location with measurements to walls:



Soil Vapor Sampling

Relative sub-slab pressure (±pascals): -1" H<sub>2</sub>O

Purged 200 mL air prior to sampling with:

- Pump
- Syringe
- \_\_\_\_\_

PID Reading (ppm): 0.0

Sampling Canister ID: 0189

- 1 Liter
- 6 Liters

Flow Controller ID: FC2820

- None
- 200 mL/min

Canister Vacuum on Label ("Hg): -30

Canister Initial Vacuum ("Hg): -29

Do not use the canister if the difference between the label and initial vacuum is >4"Hg or if the initial is <25"Hg.

Collection Start Time: 13:55:30

The final vacuum must be <5"Hg or at least 20"Hg less than the initial vacuum.

Canister Final Vacuum ("Hg): -3

Collection End Time: ~~14:00:00~~ 14:33:00

Notes/Observations:





Add to Dropbox

Download



# METCO Erfurth's Citgo Vapor

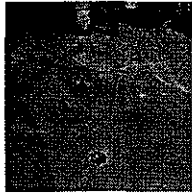
Sorted by name



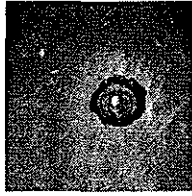
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IMG\_0002.JPG



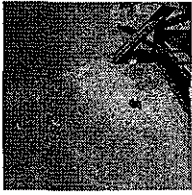
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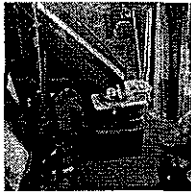
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IMG\_0005.JPG



IMG\_0006.JPG



IMG\_0007.JPG



IMG\_0008.JPG



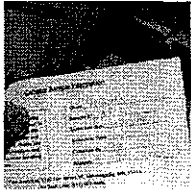
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IMG\_0010.JPG



IMG\_0011.JPG



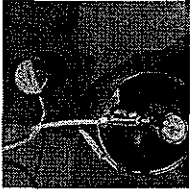
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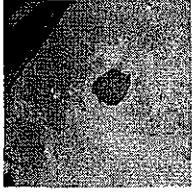
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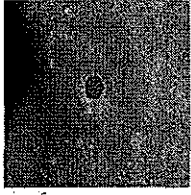
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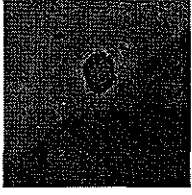
IMG\_0015.JPG



IMG\_0016.JPG



IMG\_0017.JPG



IMG\_0018.JPG



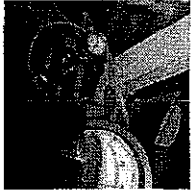
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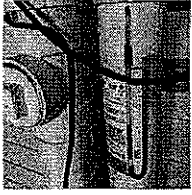
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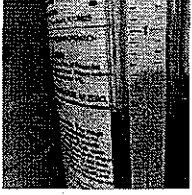
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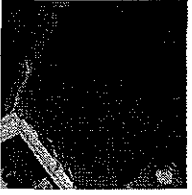
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IMG\_0023.JPG



IMG\_0024.JPG



IMG\_0025.JPG

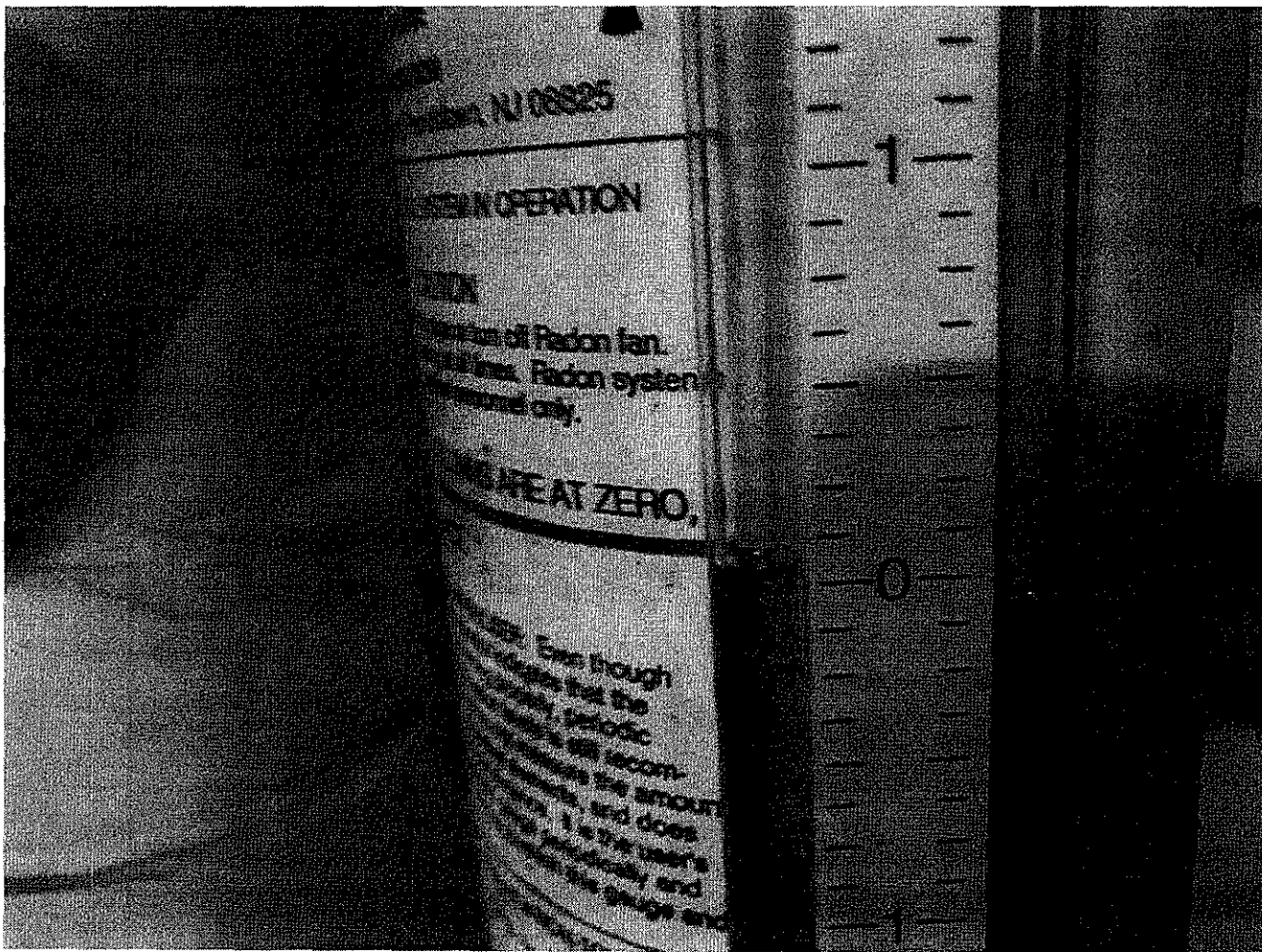


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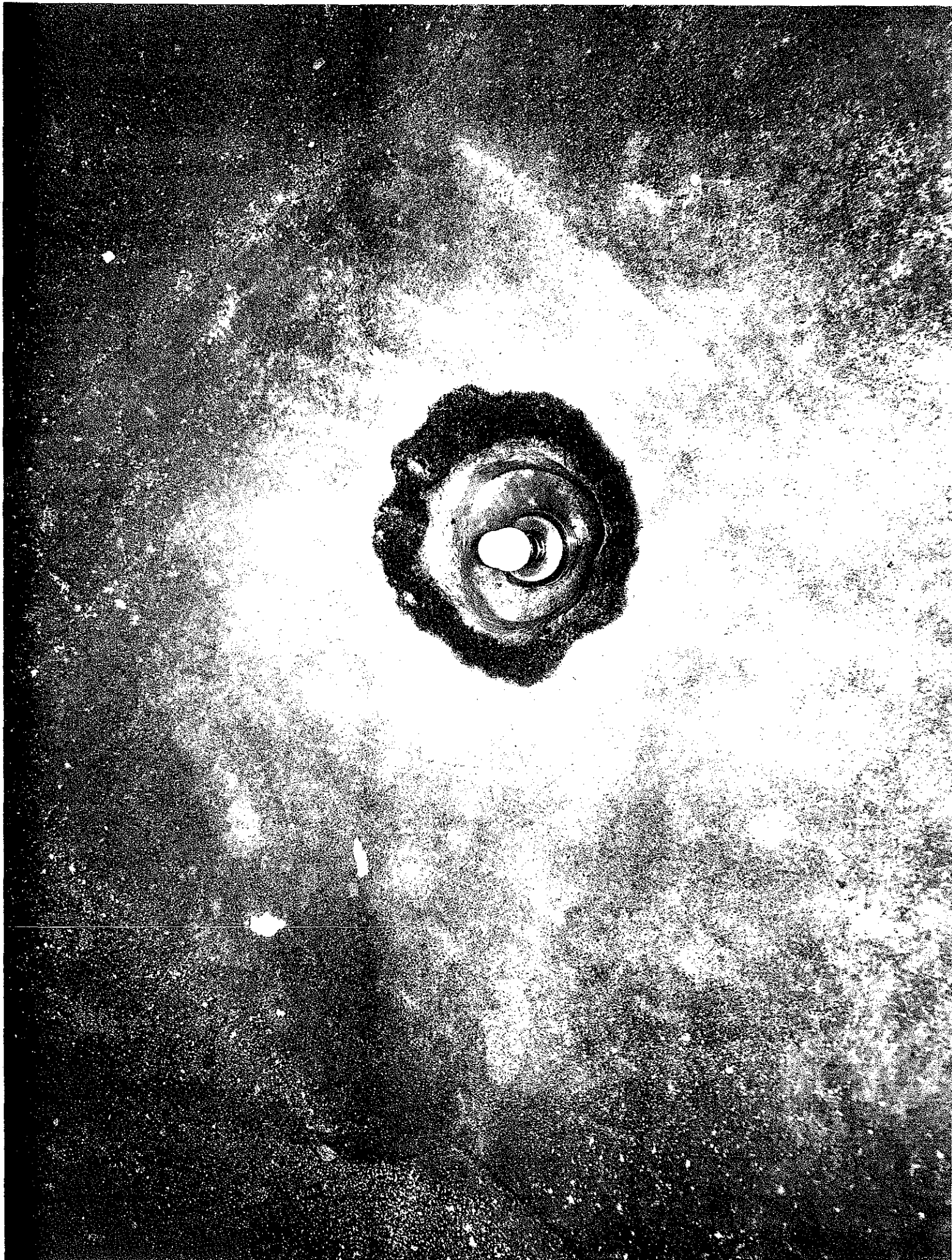
IMG\_0027.JPG

see email folder for  
add photos. also need me  
on Diana to open & print  
\_\_\_\_\_

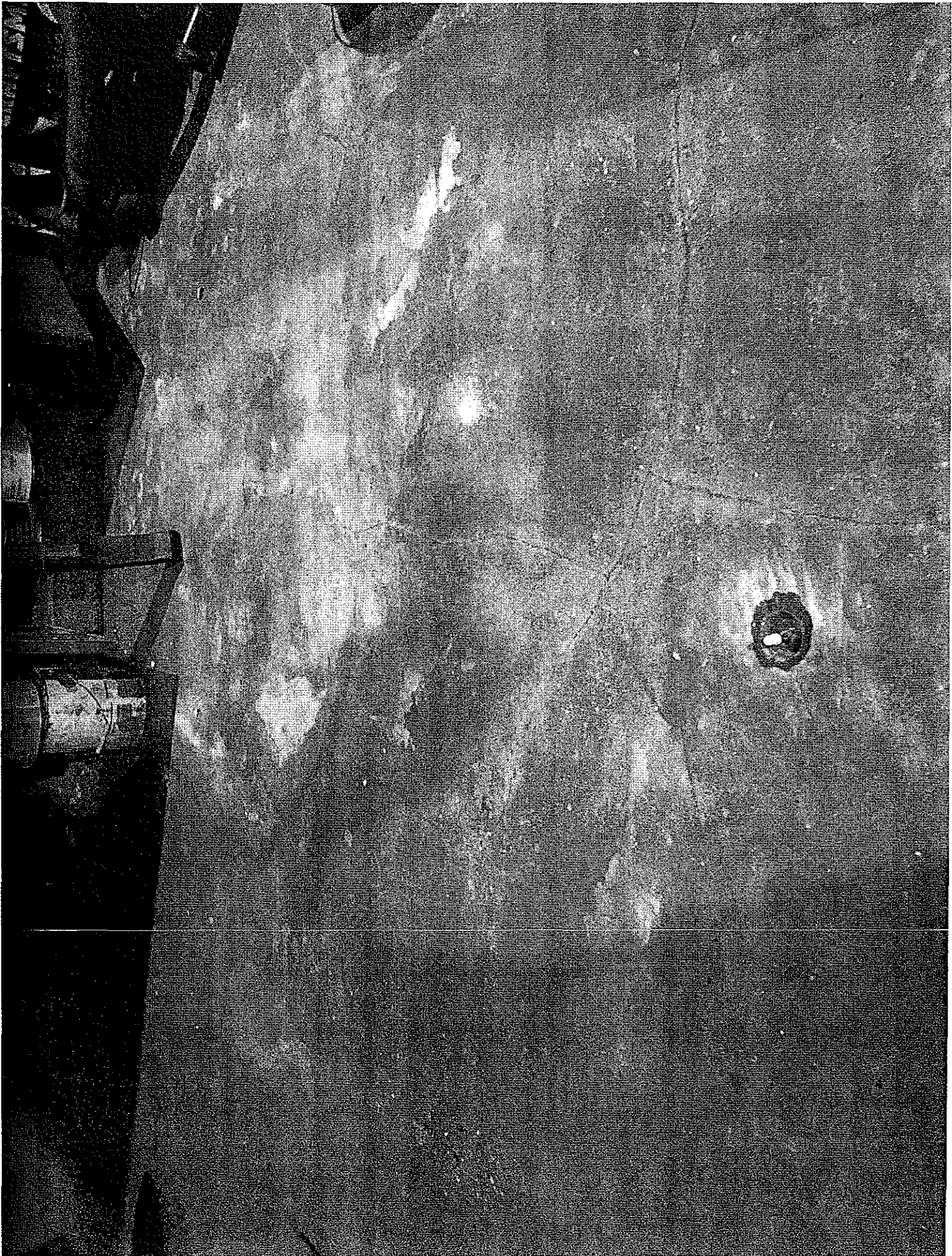


6408



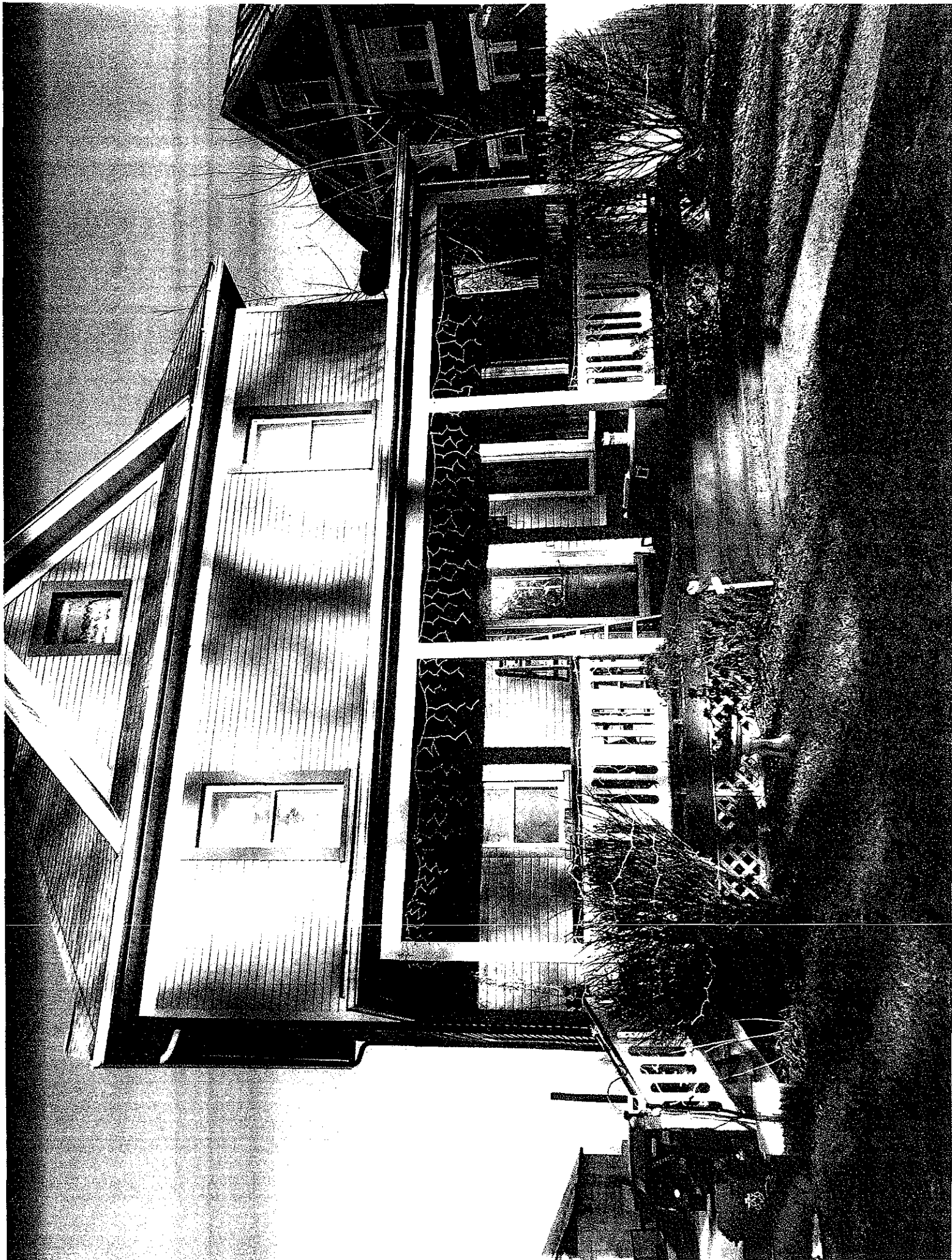












# Synergy Environmental Lab,

1990 Prospect Ct., Appleton, WI 54914 \*P 920-830-2455 \* F 920-733-0631

HARLAND ERFURTH  
 HARLAND ERFURTH  
 600 S. BLUE MOUND  
 MT. HOREB, WI 53572

Report Date 07-Feb-18

Project Name ERFURTH'S CITGO (FMR)

Invoice # E34187

Project #

Lab Code 5034187A  
 Sample ID 8638 DAVIS  
 Sample Matrix Water  
 Sample Date 1/30/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		2/2/2018	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		2/2/2018	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		2/2/2018	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		2/2/2018	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		2/2/2018	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		2/2/2018	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		2/2/2018	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		2/2/2018	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		2/2/2018	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		2/2/2018	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		2/2/2018	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		2/2/2018	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		2/2/2018	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		2/2/2018	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		2/2/2018	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		2/2/2018	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		2/2/2018	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		2/2/2018	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		2/2/2018	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		2/2/2018	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		2/2/2018	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		2/2/2018	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		2/2/2018	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		2/2/2018	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		2/2/2018	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		2/2/2018	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		2/2/2018	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		2/2/2018	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		2/2/2018	CJR	1



Project #

Lab Code 5034187A  
 Sample ID 8638 DAVIS  
 Sample Matrix Water  
 Sample Date 1/30/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		2/2/2018	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		2/2/2018	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		2/2/2018	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		2/2/2018	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		2/2/2018	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		2/2/2018	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		2/2/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		2/2/2018	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		2/2/2018	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		2/2/2018	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		2/2/2018	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		2/2/2018	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		2/2/2018	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		2/2/2018	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		2/2/2018	CJR	1
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		2/2/2018	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		2/2/2018	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		2/2/2018	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		2/2/2018	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		2/2/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		2/2/2018	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		2/2/2018	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		2/2/2018	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		2/2/2018	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		2/2/2018	CJR	1
SUR - 1,2-Dichloroethane-d4	98	REC %			1	8260B		2/2/2018	CJR	1
SUR - 4-Bromofluorobenzene	102	REC %			1	8260B		2/2/2018	CJR	1
SUR - Dibromofluoromethane	106	REC %			1	8260B		2/2/2018	CJR	1
SUR - Toluene-d8	94	REC %			1	8260B		2/2/2018	CJR	1

## Project #

Lab Code 5034187B  
 Sample ID 8640 DAVIS  
 Sample Matrix Water  
 Sample Date 1/30/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		2/2/2018	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		2/2/2018	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		2/2/2018	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		2/2/2018	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		2/2/2018	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		2/2/2018	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		2/2/2018	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		2/2/2018	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		2/2/2018	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		2/2/2018	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		2/2/2018	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		2/2/2018	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		2/2/2018	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		2/2/2018	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		2/2/2018	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		2/2/2018	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		2/2/2018	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		2/2/2018	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		2/2/2018	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		2/2/2018	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		2/2/2018	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		2/2/2018	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		2/2/2018	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		2/2/2018	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		2/2/2018	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		2/2/2018	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		2/2/2018	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		2/2/2018	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		2/2/2018	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		2/2/2018	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		2/2/2018	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		2/2/2018	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		2/2/2018	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		2/2/2018	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		2/2/2018	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		2/2/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		2/2/2018	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		2/2/2018	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		2/2/2018	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		2/2/2018	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		2/2/2018	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		2/2/2018	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		2/2/2018	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		2/2/2018	CJR	1
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		2/2/2018	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		2/2/2018	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		2/2/2018	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		2/2/2018	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		2/2/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		2/2/2018	CJR	1

Project Name ERFURTH'S CITGO (FMR)

Invoice # E34187

Project #

Lab Code 5034187B  
Sample ID 8640 DAVIS  
Sample Matrix Water  
Sample Date 1/30/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63		2	1 8260B		2/2/2018	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		2/2/2018	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		2/2/2018	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		2/2/2018	CJR	1
SUR - 1,2-Dichloroethane-d4	97	REC %				1 8260B		2/2/2018	CJR	1
SUR - 4-Bromofluorobenzene	100	REC %				1 8260B		2/2/2018	CJR	1
SUR - Dibromofluoromethane	108	REC %				1 8260B		2/2/2018	CJR	1
SUR - Toluene-d8	93	REC %				1 8260B		2/2/2018	CJR	1

## Project #

Lab Code 5034187C  
 Sample ID 8641 DAVIS  
 Sample Matrix Water  
 Sample Date 1/30/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		2/2/2018	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		2/2/2018	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		2/2/2018	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		2/2/2018	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		2/2/2018	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		2/2/2018	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		2/2/2018	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		2/2/2018	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		2/2/2018	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		2/2/2018	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		2/2/2018	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		2/2/2018	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		2/2/2018	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		2/2/2018	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		2/2/2018	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		2/2/2018	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		2/2/2018	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		2/2/2018	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		2/2/2018	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		2/2/2018	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		2/2/2018	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		2/2/2018	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		2/2/2018	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		2/2/2018	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		2/2/2018	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		2/2/2018	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		2/2/2018	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		2/2/2018	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		2/2/2018	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		2/2/2018	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		2/2/2018	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		2/2/2018	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		2/2/2018	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		2/2/2018	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		2/2/2018	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		2/2/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		2/2/2018	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		2/2/2018	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		2/2/2018	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		2/2/2018	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		2/2/2018	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		2/2/2018	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		2/2/2018	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		2/2/2018	CJR	1
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		2/2/2018	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		2/2/2018	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		2/2/2018	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		2/2/2018	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		2/2/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		2/2/2018	CJR	1

Project Name ERFURTH'S CITGO (FMR)

Invoice # E34187

Project #

Lab Code 5034187C

Sample ID 8641 DAVIS

Sample Matrix Water

Sample Date 1/30/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63		2	1 8260B		2/2/2018	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		2/2/2018	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		2/2/2018	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		2/2/2018	CJR	1
SUR - Dibromofluoromethane	109	REC %				1 8260B		2/2/2018	CJR	1
SUR - Toluene-d8	93	REC %				1 8260B		2/2/2018	CJR	1
SUR - 4-Bromofluorobenzene	100	REC %				1 8260B		2/2/2018	CJR	1
SUR - 1,2-Dichloroethane-d4	99	REC %				1 8260B		2/2/2018	CJR	1

## Project #

Lab Code 5034187D

Sample ID 1675

Sample Matrix Water

Sample Date 1/30/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		2/2/2018	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		2/2/2018	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		2/2/2018	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		2/2/2018	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		2/2/2018	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		2/2/2018	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		2/2/2018	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		2/2/2018	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		2/2/2018	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		2/2/2018	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		2/2/2018	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		2/2/2018	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		2/2/2018	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		2/2/2018	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		2/2/2018	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		2/2/2018	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		2/2/2018	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		2/2/2018	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		2/2/2018	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		2/2/2018	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		2/2/2018	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		2/2/2018	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		2/2/2018	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		2/2/2018	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		2/2/2018	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		2/2/2018	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		2/2/2018	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		2/2/2018	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		2/2/2018	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		2/2/2018	CJR	1
EDB (1,2-Dibromochthane)	< 0.34	ug/l	0.34	1.09	1	8260B		2/2/2018	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		2/2/2018	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		2/2/2018	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		2/2/2018	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		2/2/2018	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		2/2/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		2/2/2018	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		2/2/2018	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		2/2/2018	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		2/2/2018	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		2/2/2018	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		2/2/2018	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		2/2/2018	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		2/2/2018	CJR	1
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		2/2/2018	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		2/2/2018	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		2/2/2018	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		2/2/2018	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		2/2/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		2/2/2018	CJR	1

Project Name ERFURTH'S CITGO (FMR)

Invoice # E34187

Project #

Lab Code 5034187D

Sample ID 1675

Sample Matrix Water

Sample Date 1/30/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		2/2/2018	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		2/2/2018	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		2/2/2018	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		2/2/2018	CJR	1
SUR - 4-Bromofluorobenzene	101	REC %			1	8260B		2/2/2018	CJR	1
SUR - Dibromofluoromethane	109	REC %			1	8260B		2/2/2018	CJR	1
SUR - Toluene-d8	95	REC %			1	8260B		2/2/2018	CJR	1
SUR - 1,2-Dichloroethane-d4	95	REC %			1	8260B		2/2/2018	CJR	1

## Project #

Lab Code 5034187E  
 Sample ID 1680  
 Sample Matrix Water  
 Sample Date 1/30/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		2/2/2018	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		2/2/2018	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		2/2/2018	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		2/2/2018	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		2/2/2018	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		2/2/2018	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		2/2/2018	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		2/2/2018	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		2/2/2018	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		2/2/2018	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		2/2/2018	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		2/2/2018	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		2/2/2018	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		2/2/2018	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		2/2/2018	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		2/2/2018	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		2/2/2018	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		2/2/2018	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		2/2/2018	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		2/2/2018	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		2/2/2018	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		2/2/2018	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		2/2/2018	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		2/2/2018	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		2/2/2018	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		2/2/2018	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		2/2/2018	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		2/2/2018	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		2/2/2018	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		2/2/2018	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		2/2/2018	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		2/2/2018	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		2/2/2018	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		2/2/2018	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		2/2/2018	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		2/2/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		2/2/2018	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		2/2/2018	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		2/2/2018	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		2/2/2018	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		2/2/2018	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		2/2/2018	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		2/2/2018	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		2/2/2018	CJR	1
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		2/2/2018	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		2/2/2018	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		2/2/2018	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		2/2/2018	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		2/2/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		2/2/2018	CJR	1



Project #

Lab Code 5034187E  
 Sample ID 1680  
 Sample Matrix Water  
 Sample Date 1/30/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63		2	1 8260B		2/2/2018	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2		0.65	1 8260B		2/2/2018	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43		1.38	1 8260B		2/2/2018	CJR	1
o-Xylene	< 0.29	ug/l	0.29		0.93	1 8260B		2/2/2018	CJR	1
SUR - 1,2-Dichloroethane-d4	95	REC %				1 8260B		2/2/2018	CJR	1
SUR - 4-Bromofluorobenzene	99	REC %				1 8260B		2/2/2018	CJR	1
SUR - Dibromofluoromethane	111	REC %				1 8260B		2/2/2018	CJR	1
SUR - Toluene-d8	93	REC %				1 8260B		2/2/2018	CJR	1

Lab Code 5034187F  
 Sample ID MW-4  
 Sample Matrix Water  
 Sample Date 1/30/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	117	ug/l	2.2		6.9	10 GRO95/8021		2/2/2018	CJR	1
Ethylbenzene	230	ug/l	5.3		16.9	10 GRO95/8021		2/2/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 5.7	ug/l	5.7		18.2	10 GRO95/8021		2/2/2018	CJR	1
Naphthalene	156	ug/l	17		53.8	10 GRO95/8021		2/2/2018	CJR	1
Toluene	12.8 "J"	ug/l	4.5		14.5	10 GRO95/8021		2/2/2018	CJR	1
1,2,4-Trimethylbenzene	45	ug/l	7.3		23.3	10 GRO95/8021		2/2/2018	CJR	1
1,3,5-Trimethylbenzene	10.2 "J"	ug/l	7.5		23.9	10 GRO95/8021		2/2/2018	CJR	1
m&p-Xylene	146	ug/l	10		31.7	10 GRO95/8021		2/2/2018	CJR	1
o-Xylene	10.3 "J"	ug/l	5.8		18.4	10 GRO95/8021		2/2/2018	CJR	1

Lab Code 5034187G  
 Sample ID MW-5  
 Sample Matrix Water  
 Sample Date 1/30/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	27.2	ug/l	2.2		6.9	10 GRO95/8021		2/2/2018	CJR	1
Ethylbenzene	169	ug/l	5.3		16.9	10 GRO95/8021		2/2/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 5.7	ug/l	5.7		18.2	10 GRO95/8021		2/2/2018	CJR	1
Naphthalene	141	ug/l	17		53.8	10 GRO95/8021		2/2/2018	CJR	1
Toluene	84	ug/l	4.5		14.5	10 GRO95/8021		2/2/2018	CJR	1
1,2,4-Trimethylbenzene	320	ug/l	7.3		23.3	10 GRO95/8021		2/2/2018	CJR	1
1,3,5-Trimethylbenzene	70	ug/l	7.5		23.9	10 GRO95/8021		2/2/2018	CJR	1
m&p-Xylene	450	ug/l	10		31.7	10 GRO95/8021		2/2/2018	CJR	1
o-Xylene	195	ug/l	5.8		18.4	10 GRO95/8021		2/2/2018	CJR	1

Project #

Lab Code 5034187H  
 Sample ID MW-11  
 Sample Matrix Water  
 Sample Date 1/30/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	3600	ug/l	22	69	100	GRO95/8021		2/2/2018	CJR	1
Ethylbenzene	1750	ug/l	53	169	100	GRO95/8021		2/2/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 57	ug/l	57	182	100	GRO95/8021		2/2/2018	CJR	1
Naphthalene	600	ug/l	170	538	100	GRO95/8021		2/2/2018	CJR	1
Toluene	4800	ug/l	45	145	100	GRO95/8021		2/2/2018	CJR	1
1,2,4-Trimethylbenzene	1490	ug/l	73	233	100	GRO95/8021		2/2/2018	CJR	1
1,3,5-Trimethylbenzene	440	ug/l	75	239	100	GRO95/8021		2/2/2018	CJR	1
m&p-Xylene	5800	ug/l	100	317	100	GRO95/8021		2/2/2018	CJR	1
o-Xylene	1070	ug/l	58	184	100	GRO95/8021		2/2/2018	CJR	1

Lab Code 5034187I  
 Sample ID MW-7R  
 Sample Matrix Water  
 Sample Date 1/30/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	1780	ug/l	11	34.5	50	GRO95/8021		2/6/2018	CJR	1
Ethylbenzene	315	ug/l	26.5	84.5	50	GRO95/8021		2/6/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 28.5	ug/l	28.5	91	50	GRO95/8021		2/6/2018	CJR	1
Naphthalene	156 "J"	ug/l	85	269	50	GRO95/8021		2/6/2018	CJR	1
Toluene	152	ug/l	22.5	72.5	50	GRO95/8021		2/6/2018	CJR	1
1,2,4-Trimethylbenzene	220	ug/l	36.5	116.5	50	GRO95/8021		2/6/2018	CJR	1
1,3,5-Trimethylbenzene	41 "J"	ug/l	37.5	119.5	50	GRO95/8021		2/6/2018	CJR	1
m&p-Xylene	450	ug/l	50	158.5	50	GRO95/8021		2/6/2018	CJR	1
o-Xylene	183	ug/l	29	92	50	GRO95/8021		2/6/2018	CJR	1

Lab Code 5034187J  
 Sample ID MW-2  
 Sample Matrix Water  
 Sample Date 1/30/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	42	ug/l	11	34.5	50	GRO95/8021		2/6/2018	CJR	1
Ethylbenzene	410	ug/l	26.5	84.5	50	GRO95/8021		2/6/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 28.5	ug/l	28.5	91	50	GRO95/8021		2/6/2018	CJR	1
Naphthalene	350	ug/l	85	269	50	GRO95/8021		2/6/2018	CJR	1
Toluene	110	ug/l	22.5	72.5	50	GRO95/8021		2/6/2018	CJR	1
1,2,4-Trimethylbenzene	1790	ug/l	36.5	116.5	50	GRO95/8021		2/6/2018	CJR	1
1,3,5-Trimethylbenzene	570	ug/l	37.5	119.5	50	GRO95/8021		2/6/2018	CJR	1
m&p-Xylene	1350	ug/l	50	158.5	50	GRO95/8021		2/6/2018	CJR	1
o-Xylene	390	ug/l	29	92	50	GRO95/8021		2/6/2018	CJR	1

Project #

Lab Code 5034187K  
 Sample ID MW-10  
 Sample Matrix Water  
 Sample Date 1/30/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	1070	ug/l	11	34.5	50	GRO95/8021		2/6/2018	CJR	1
Ethylbenzene	530	ug/l	26.5	84.5	50	GRO95/8021		2/6/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 28.5	ug/l	28.5	91	50	GRO95/8021		2/6/2018	CJR	1
Naphthalene	164 "J"	ug/l	85	269	50	GRO95/8021		2/6/2018	CJR	1
Toluene	243	ug/l	22.5	72.5	50	GRO95/8021		2/6/2018	CJR	1
1,2,4-Trimethylbenzene	660	ug/l	36.5	116.5	50	GRO95/8021		2/6/2018	CJR	1
1,3,5-Trimethylbenzene	115 "J"	ug/l	37.5	119.5	50	GRO95/8021		2/6/2018	CJR	1
m&p-Xylene	970	ug/l	50	158.5	50	GRO95/8021		2/6/2018	CJR	1
o-Xylene	370	ug/l	29	92	50	GRO95/8021		2/6/2018	CJR	1

Lab Code 5034187L  
 Sample ID MW-1  
 Sample Matrix Water  
 Sample Date 1/30/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	320	ug/l	11	34.5	50	GRO95/8021		2/6/2018	CJR	1
Ethylbenzene	195	ug/l	26.5	84.5	50	GRO95/8021		2/6/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 28.5	ug/l	28.5	91	50	GRO95/8021		2/6/2018	CJR	1
Naphthalene	85 "J"	ug/l	85	269	50	GRO95/8021		2/6/2018	CJR	1
Toluene	289	ug/l	22.5	72.5	50	GRO95/8021		2/6/2018	CJR	1
1,2,4-Trimethylbenzene	57 "J"	ug/l	36.5	116.5	50	GRO95/8021		2/6/2018	CJR	1
1,3,5-Trimethylbenzene	< 37.5	ug/l	37.5	119.5	50	GRO95/8021		2/6/2018	CJR	1
m&p-Xylene	221	ug/l	50	158.5	50	GRO95/8021		2/6/2018	CJR	1
o-Xylene	135	ug/l	29	92	50	GRO95/8021		2/6/2018	CJR	1

Lab Code 5034187M  
 Sample ID MW-8  
 Sample Matrix Water  
 Sample Date 1/30/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	1790	ug/l	11	34.5	50	GRO95/8021		2/6/2018	CJR	1
Ethylbenzene	2890	ug/l	26.5	84.5	50	GRO95/8021		2/6/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 28.5	ug/l	28.5	91	50	GRO95/8021		2/6/2018	CJR	1
Naphthalene	1150	ug/l	85	269	50	GRO95/8021		2/6/2018	CJR	1
Toluene	1740	ug/l	22.5	72.5	50	GRO95/8021		2/6/2018	CJR	1
1,2,4-Trimethylbenzene	3800	ug/l	36.5	116.5	50	GRO95/8021		2/6/2018	CJR	1
1,3,5-Trimethylbenzene	1120	ug/l	37.5	119.5	50	GRO95/8021		2/6/2018	CJR	1
m&p-Xylene	10400	ug/l	50	158.5	50	GRO95/8021		2/6/2018	CJR	1
o-Xylene	2820	ug/l	29	92	50	GRO95/8021		2/6/2018	CJR	1

Project #

Lab Code 5034187N

Sample ID MW-3

Sample Matrix Water

Sample Date 1/30/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	2370	ug/l	11	34.5	50	GRO95/8021		2/6/2018	CJR	1
Ethylbenzene	1110	ug/l	26.5	84.5	50	GRO95/8021		2/6/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 28.5	ug/l	28.5	91	50	GRO95/8021		2/6/2018	CJR	1
Naphthalene	540	ug/l	85	269	50	GRO95/8021		2/6/2018	CJR	1
Toluene	3900	ug/l	22.5	72.5	50	GRO95/8021		2/6/2018	CJR	3
1,2,4-Trimethylbenzene	1270	ug/l	36.5	116.5	50	GRO95/8021		2/6/2018	CJR	1
1,3,5-Trimethylbenzene	450	ug/l	37.5	119.5	50	GRO95/8021		2/6/2018	CJR	1
m&p-Xylene	4300	ug/l	50	158.5	50	GRO95/8021		2/6/2018	CJR	1
o-Xylene	2010	ug/l	29	92	50	GRO95/8021		2/6/2018	CJR	1

Project #

Lab Code 50341870  
 Sample ID TB  
 Sample Matrix Water  
 Sample Date 1/30/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		2/5/2018	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		2/5/2018	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		2/5/2018	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		2/5/2018	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		2/5/2018	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		2/5/2018	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		2/5/2018	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		2/5/2018	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		2/5/2018	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		2/5/2018	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		2/5/2018	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		2/5/2018	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		2/5/2018	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		2/5/2018	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		2/5/2018	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		2/5/2018	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		2/5/2018	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		2/5/2018	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		2/5/2018	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		2/5/2018	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		2/5/2018	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		2/5/2018	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		2/5/2018	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		2/5/2018	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		2/5/2018	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		2/5/2018	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		2/5/2018	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		2/5/2018	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		2/5/2018	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		2/5/2018	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		2/5/2018	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		2/5/2018	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		2/5/2018	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		2/5/2018	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		2/5/2018	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		2/5/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		2/5/2018	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		2/5/2018	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		2/5/2018	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		2/5/2018	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		2/5/2018	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		2/5/2018	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		2/5/2018	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		2/5/2018	CJR	1
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		2/5/2018	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		2/5/2018	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		2/5/2018	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		2/5/2018	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		2/5/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		2/5/2018	CJR	1

Project #

Lab Code 50341870

Sample ID TB

Sample Matrix Water

Sample Date 1/30/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63		2	1 8260B		2/5/2018	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	1 8260B		2/5/2018	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	1 8260B		2/5/2018	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	1 8260B		2/5/2018	CJR	1
SUR - Toluene-d8	96	REC %				1 8260B		2/5/2018	CJR	1
SUR - 1,2-Dichloroethane-d4	92	REC %				1 8260B		2/5/2018	CJR	1
SUR - 4-Bromofluorobenzene	104	REC %				1 8260B		2/5/2018	CJR	1
SUR - Dibromofluoromethane	101	REC %				1 8260B		2/5/2018	CJR	1

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

LOQ Limit of Quantitation

**Code Comment**

- 1 Laboratory QC within limits.
- 3 The matrix spike not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature

*Michael Ricker*

CHAIN OF CUSTODY RECORD

# Synergy

Chain # No 296  
Page 1 of 2

## Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914  
920-830-2455 • FAX 920-733-0631

**Sample Handling Request**  
 Rush Analysis Date Required \_\_\_\_\_  
 (Rushes accepted only with prior authorization)  
 Normal Turn Around

Lab ID: # \_\_\_\_\_  
 Account No.: \_\_\_\_\_ Quote No.: \_\_\_\_\_  
 Project #: \_\_\_\_\_  
 Sampler: (signature) *Jan Jan*

Project (Name / Location): *Erfurth's Citgo (Former) / Mt. Vernon, WI*

Reports To: <i>Harland Erfurth</i>	Invoice To: <i>Harland Erfurth</i>
Company: _____	Company: <i>C/O METCO</i>
Address: <i>600 S. Blue Mound, Apt. 105</i>	Address: <i>709 Gillette St, Ste. 3</i>
City State Zip: <i>Mt. Horeb, WI 53572</i>	City State Zip: <i>La Crosse, WI 54603</i>
Phone: _____	Phone: _____
FAX: _____	FAX: _____

Analysis Requested										Other Analysis				
DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 542.2)	VOC (EPA 8260)	8-PCRA METALS	PID/ FID
												X		
												X		
												X		
												X		
												X		

Lab ID	Sample I.D.	Collection Date	Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation
<i>5029187 A</i>	<i>8638 Davis</i>	<i>1-30</i>	<i>1050</i>				<i>3</i>	<i>GW</i>	<i>HCL</i>
<i>B</i>	<i>Street PW</i>								
<i>C</i>	<i>8640 Davis</i>	<i>1-30</i>	<i>1020</i>				<i>3</i>	<i>GW</i>	<i>HCL</i>
<i>D</i>	<i>Street PW</i>								
<i>E</i>	<i>8641 Davis</i>	<i>1-30</i>	<i>930</i>				<i>3</i>	<i>GW</i>	<i>HCL</i>
<i>F</i>	<i>Street PW</i>								
<i>G</i>	<i>1675 Washington</i>	<i>1-30</i>	<i>920</i>				<i>3</i>	<i>GW</i>	<i>HCL</i>
<i>H</i>	<i>Street PW</i>								
<i>I</i>	<i>1680 Washington</i>	<i>1-30</i>	<i>905</i>				<i>3</i>	<i>GW</i>	<i>HCL</i>
<i>J</i>	<i>Street PW</i>								

Comments/Special Instructions ("Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)  
*Lab to send copy of report to METCO / Jason P. (Invoice to METCO)  
 \* etc rates apply  
 \* Agent status*

Sample Integrity - To be completed by receiving lab. Method of Shipment: <i>GC</i> Temp. of Temp. Blank: _____ °C On Ice: <input checked="" type="checkbox"/> Cooler seal intact upon receipt: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Relinquished By: (sign) <i>Jan Jan</i>	Time: <i>7:00 PM</i>	Date: <i>1-30-18</i>	Received By: (sign) _____	Time: _____	Date: _____
	Received in Laboratory By: <i>Jason P. [Signature]</i>					
	Time: <i>8:00</i> Date: <i>2/1/18</i>					

CHAIN OF CUSTODY RECORD

# Synergy

*Environmental Lab, Inc.*

Chain # No 296

Page 2 of 2

Lab I.D. #	
Account No. :	Quote No. :
Project #:	
Sampler: (signature) <i>Jan Jan</i>	

1990 Prospect Ct. • Appleton, WI 54914  
920-830-2455 • FAX 920-733-0631

Sample Handling Request	
Rush Analysis Date Required (Rushes accepted only with prior authorization)	
<input checked="" type="checkbox"/> Normal Turn Around	

Project (Name / Location): <i>Erfurth's Citgo (Former) / Mt. Vernon, WI</i>	
Reports To:	Invoice To:
Company: <i>See Page 1</i>	Company: <i>See Page 1</i>
Address: <i>1</i>	Address: <i>1</i>
City State Zip:	City State Zip:
Phone:	Phone:
FAX:	FAX:

Analysis Requested										Other Analysis															
Lab I.D.	Sample I.D.	Collection Date	Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 542.2)	VOC (EPA 8260)	8-PCRA METALS	PID/FID	
<i>1187</i>	<i>F</i>	<i>MW-4</i>	<i>1-30</i>				<i>3</i>	<i>GW</i>	<i>HCL</i>									<i>X</i>							
	<i>L</i>	<i>MW-5</i>																<i>X</i>							
	<i>H</i>	<i>MW-11</i>																<i>X</i>							
	<i>E</i>	<i>MW-7R</i>																<i>X</i>							
	<i>S</i>	<i>MW-2</i>																<i>X</i>							
	<i>K</i>	<i>MW-10</i>																<i>X</i>							
	<i>L</i>	<i>MW-1</i>																<i>X</i>							
	<i>M</i>	<i>MW-8</i>																<i>X</i>							
	<i>N</i>	<i>MW-3</i>	<i>✓</i>															<i>X</i>							
	<i>O</i>	<i>TB</i>																				<i>X</i>			

Comments/Special Instructions (\*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

*See Page 1*

Sample Integrity - To be completed by receiving lab. Method of Shipment: <i>Ice</i> Temp. of Temp. Blank: _____ °C On Ice <input checked="" type="checkbox"/> Cooler seal intact upon receipt: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Relinquished By: (sign) <i>Jan Jan</i>	Time: <i>7:00 PM</i>	Date: <i>1-30-18</i>	Received By: (sign) _____	Time: _____	Date: _____
	Received in Laboratory By: <i>David J. [Signature]</i>			Time: <i>8:00</i> Date: <i>2/1/18</i>		



February 12, 2018

Nicholas Stingl  
Braun Intertec  
2309 Palace Sreet  
La Crosse, WI 54603

RE: Project: B1800253 Erfurths Citgo  
Pace Project No.: 10418924

Dear Nicholas Stingl:

Enclosed are the analytical results for sample(s) received by the laboratory on January 31, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Dan Nguyen  
dan.nguyen@pacelabs.com  
612-360-0728  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: B1800253 Erfurths Citgo  
Pace Project No.: 10418924

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### Minnesota Certification IDs

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414-2485  
A2LA Certification #: 2926.01  
Alabama Certification #: 40770  
Alaska Contaminated Sites Certification #: 17-009  
Alaska DW Certification #: MN00064  
Arizona Certification #: AZ0014  
Arkansas Certification #: 88-0680  
California Certification #: 2929  
CNMI Saipan Certification #: MP0003  
Colorado Certification #: MN00064  
Connecticut Certification #: PH-0256  
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137  
Florida Certification #: E87605  
Georgia Certification #: 959  
Guam EPA Certification #: MN00064  
Hawaii Certification #: MN00064  
Idaho Certification #: MN00064  
Illinois Certification #: 200011  
Indiana Certification #: C-MN-01  
Iowa Certification #: 368  
Kansas Certification #: E-10167  
Kentucky DW Certification #: 90062  
Kentucky WW Certification #: 90062  
Louisiana DEQ Certification #: 03086  
Louisiana DW Certification #: MN00064  
Maine Certification #: MN00064  
Maryland Certification #: 322  
Massachusetts Certification #: M-MN064

Michigan Certification #: 9909  
Minnesota Certification #: 027-053-137  
Mississippi Certification #: MN00064  
Montana Certification #: CERT0092  
Nebraska Certification #: NE-OS-18-06  
Nevada Certification #: MN00064  
New Hampshire Certification #: 2081  
New Jersey Certification #: MN002  
New York Certification #: 11647  
North Carolina DW Certification #: 27700  
North Carolina WW Certification #: 530  
North Dakota Certification #: R-036  
Ohio DW Certification #: 41244  
Ohio VAP Certification #: CL101  
Oklahoma Certification #: 9507  
Oregon NwTPH Certification #: MN300001  
Oregon Secondary Certification #: MN200001  
Pennsylvania Certification #: 68-00563  
Puerto Rico Certification #: MN00064  
South Carolina Certification #: 74003001  
Tennessee Certification #: TN02818  
Texas Certification #: T104704192  
Utah Certification #: MN00064  
Virginia Certification #: 460163  
Washington Certification #: C486  
West Virginia DW Certification #: 9952 C  
West Virginia DEP Certification #: 382  
Wisconsin Certification #: 999407970

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: B1800253 Erfurths Citgo  
Pace Project No.: 10418924

---

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10418924001	SS-1	Air	01/30/18 12:54	01/31/18 10:30
10418924002	SS-2	Air	01/30/18 13:01	01/31/18 10:30
10418924003	SS-3	Air	01/30/18 13:10	01/31/18 10:30
10418924004	SS-4	Air	01/30/18 14:26	01/31/18 10:30
10418924005	SS-5	Air	01/30/18 13:50	01/31/18 10:30
10418924006	SS-6	Air	01/30/18 13:55	01/31/18 10:30
10418924007	Unused canister PACE0971	Air		01/31/18 10:30

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### SAMPLE ANALYTE COUNT

Project: B1800253 Erfurths Citgo  
Pace Project No.: 10418924

---

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10418924001	SS-1	TO-15	AFV	9
10418924002	SS-2	TO-15	AFV	9
10418924003	SS-3	TO-15	AFV	9
10418924004	SS-4	TO-15	AFV	9
10418924005	SS-5	TO-15	AFV	9
10418924006	SS-6	TO-15	AFV	9

### REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: B1800253 Erfurths Citgo  
Pace Project No.: 10418924

---

**Method:** TO-15  
**Description:** TO15 MSV AIR  
**Client:** Braun-BLM  
**Date:** February 12, 2018

**General Information:**

6 samples were analyzed for TO-15. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Internal Standards:**

All internal standards were within QC limits with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: B1800253 Erfurths Citgo  
Pace Project No.: 10418924

Sample: SS-1 Lab ID: 10418924001 Collected: 01/30/18 12:54 Received: 01/31/18 10:30 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>		Analytical Method: TO-15							
Benzene	2.8	ug/m3	0.45	0.21	1.39		02/07/18 22:10	71-43-2	
Ethylbenzene	3.3	ug/m3	1.2	0.24	1.39		02/07/18 22:10	100-41-4	
Methyl-tert-butyl ether	<0.93	ug/m3	5.1	0.93	1.39		02/07/18 22:10	1634-04-4	
Naphthalene	<0.83	ug/m3	3.7	0.83	1.39		02/07/18 22:10	91-20-3	
Toluene	16.9	ug/m3	1.1	0.22	1.39		02/07/18 22:10	108-88-3	
1,2,4-Trimethylbenzene	1.8	ug/m3	1.4	0.24	1.39		02/07/18 22:10	95-63-6	
1,3,5-Trimethylbenzene	<0.57	ug/m3	1.4	0.57	1.39		02/07/18 22:10	108-67-8	
m&p-Xylene	12.3	ug/m3	2.5	0.49	1.39		02/07/18 22:10	179601-23-1	
o-Xylene	3.5	ug/m3	1.2	0.52	1.39		02/07/18 22:10	95-47-6	

Sample: SS-2 Lab ID: 10418924002 Collected: 01/30/18 13:01 Received: 01/31/18 10:30 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>		Analytical Method: TO-15							
Benzene	<0.22	ug/m3	0.47	0.22	1.46		02/07/18 22:44	71-43-2	
Ethylbenzene	6.0	ug/m3	1.3	0.25	1.46		02/07/18 22:44	100-41-4	
Methyl-tert-butyl ether	<0.97	ug/m3	5.3	0.97	1.46		02/07/18 22:44	1634-04-4	
Naphthalene	<0.87	ug/m3	3.9	0.87	1.46		02/07/18 22:44	91-20-3	
Toluene	1.2	ug/m3	1.1	0.23	1.46		02/07/18 22:44	108-88-3	
1,2,4-Trimethylbenzene	3.2	ug/m3	1.5	0.25	1.46		02/07/18 22:44	95-63-6	
1,3,5-Trimethylbenzene	0.98J	ug/m3	1.5	0.60	1.46		02/07/18 22:44	108-67-8	
m&p-Xylene	25.4	ug/m3	2.6	0.51	1.46		02/07/18 22:44	179601-23-1	
o-Xylene	7.2	ug/m3	1.3	0.54	1.46		02/07/18 22:44	95-47-6	

Sample: SS-3 Lab ID: 10418924003 Collected: 01/30/18 13:10 Received: 01/31/18 10:30 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>		Analytical Method: TO-15							
Benzene	<0.22	ug/m3	0.47	0.22	1.46		02/07/18 23:19	71-43-2	
Ethylbenzene	11.2	ug/m3	1.3	0.25	1.46		02/07/18 23:19	100-41-4	
Methyl-tert-butyl ether	<0.97	ug/m3	5.3	0.97	1.46		02/07/18 23:19	1634-04-4	
Naphthalene	<0.87	ug/m3	3.9	0.87	1.46		02/07/18 23:19	91-20-3	
Toluene	2.3	ug/m3	1.1	0.23	1.46		02/07/18 23:19	108-88-3	
1,2,4-Trimethylbenzene	5.3	ug/m3	1.5	0.25	1.46		02/07/18 23:19	95-63-6	
1,3,5-Trimethylbenzene	1.8	ug/m3	1.5	0.60	1.46		02/07/18 23:19	108-67-8	
m&p-Xylene	46.2	ug/m3	2.6	0.51	1.46		02/07/18 23:19	179601-23-1	
o-Xylene	12.3	ug/m3	1.3	0.54	1.46		02/07/18 23:19	95-47-6	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: B1800253 Erfurths Citgo  
Pace Project No.: 10418924

Sample: SS-4 Lab ID: 10418924004 Collected: 01/30/18 14:26 Received: 01/31/18 10:30 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
Benzene	<0.21	ug/m3	0.45	0.21	1.39		02/07/18 23:53	71-43-2	
Ethylbenzene	5.0	ug/m3	1.2	0.24	1.39		02/07/18 23:53	100-41-4	
Methyl-tert-butyl ether	<0.93	ug/m3	5.1	0.93	1.39		02/07/18 23:53	1634-04-4	
Naphthalene	16.0	ug/m3	3.7	0.83	1.39		02/07/18 23:53	91-20-3	
Toluene	0.76J	ug/m3	1.1	0.22	1.39		02/07/18 23:53	108-88-3	
1,2,4-Trimethylbenzene	3.7	ug/m3	1.4	0.24	1.39		02/07/18 23:53	95-63-6	
1,3,5-Trimethylbenzene	1.1J	ug/m3	1.4	0.57	1.39		02/07/18 23:53	108-67-8	
m&p-Xylene	22.1	ug/m3	2.5	0.49	1.39		02/07/18 23:53	179601-23-1	
o-Xylene	5.9	ug/m3	1.2	0.52	1.39		02/07/18 23:53	95-47-6	

Sample: SS-5 Lab ID: 10418924005 Collected: 01/30/18 13:50 Received: 01/31/18 10:30 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
Benzene	<0.22	ug/m3	0.47	0.22	1.44		02/08/18 00:26	71-43-2	
Ethylbenzene	6.5	ug/m3	1.3	0.25	1.44		02/08/18 00:26	100-41-4	
Methyl-tert-butyl ether	<0.96	ug/m3	5.3	0.96	1.44		02/08/18 00:26	1634-04-4	
Naphthalene	<0.86	ug/m3	3.8	0.86	1.44		02/08/18 00:26	91-20-3	
Toluene	0.74J	ug/m3	1.1	0.23	1.44		02/08/18 00:26	108-88-3	
1,2,4-Trimethylbenzene	3.9	ug/m3	1.4	0.25	1.44		02/08/18 00:26	95-63-6	
1,3,5-Trimethylbenzene	1.2J	ug/m3	1.4	0.59	1.44		02/08/18 00:26	108-67-8	
m&p-Xylene	28.1	ug/m3	2.5	0.50	1.44		02/08/18 00:26	179601-23-1	
o-Xylene	8.1	ug/m3	1.3	0.53	1.44		02/08/18 00:26	95-47-6	

Sample: SS-6 Lab ID: 10418924006 Collected: 01/30/18 13:55 Received: 01/31/18 10:30 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
Benzene	<0.22	ug/m3	0.47	0.22	1.46		02/08/18 01:01	71-43-2	
Ethylbenzene	6.0	ug/m3	1.3	0.25	1.46		02/08/18 01:01	100-41-4	
Methyl-tert-butyl ether	<0.97	ug/m3	5.3	0.97	1.46		02/08/18 01:01	1634-04-4	
Naphthalene	<0.87	ug/m3	3.9	0.87	1.46		02/08/18 01:01	91-20-3	
Toluene	2.4	ug/m3	1.1	0.23	1.46		02/08/18 01:01	108-88-3	
1,2,4-Trimethylbenzene	4.2	ug/m3	1.5	0.25	1.46		02/08/18 01:01	95-63-6	
1,3,5-Trimethylbenzene	1.2J	ug/m3	1.5	0.60	1.46		02/08/18 01:01	108-67-8	
m&p-Xylene	26.4	ug/m3	2.6	0.51	1.46		02/08/18 01:01	179601-23-1	
o-Xylene	7.6	ug/m3	1.3	0.54	1.46		02/08/18 01:01	95-47-6	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: B1800253 Erfurths Citgo  
Pace Project No.: 10418924

QC Batch: 521785 Analysis Method: TO-15  
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level  
Associated Lab Samples: 10418924001, 10418924002, 10418924003, 10418924004, 10418924005, 10418924006

METHOD BLANK: 2832561 Matrix: Air  
Associated Lab Samples: 10418924001, 10418924002, 10418924003, 10418924004, 10418924005, 10418924006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/m3	<0.17	1.0	02/07/18 10:07	
1,3,5-Trimethylbenzene	ug/m3	<0.41	1.0	02/07/18 10:07	
Benzene	ug/m3	<0.15	0.32	02/07/18 10:07	
Ethylbenzene	ug/m3	<0.17	0.88	02/07/18 10:07	
m&p-Xylene	ug/m3	<0.35	1.8	02/07/18 10:07	
Methyl-tert-butyl ether	ug/m3	<0.67	3.7	02/07/18 10:07	
Naphthalene	ug/m3	<0.60	2.7	02/07/18 10:07	
o-Xylene	ug/m3	<0.37	0.88	02/07/18 10:07	
Toluene	ug/m3	<0.16	0.77	02/07/18 10:07	

LABORATORY CONTROL SAMPLE: 2832562

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/m3	50	45.6	91	70-137	
1,3,5-Trimethylbenzene	ug/m3	50	46.2	92	70-133	
Benzene	ug/m3	32.5	36.3	112	70-134	
Ethylbenzene	ug/m3	44.1	45.1	102	70-133	
m&p-Xylene	ug/m3	88.3	85.6	97	70-133	
Methyl-tert-butyl ether	ug/m3	91.6	94.1	103	70-132	
Naphthalene	ug/m3	53.3	56.1	105	55-136	
o-Xylene	ug/m3	44.1	42.7	97	70-132	
Toluene	ug/m3	38.3	37.1	97	70-130	

SAMPLE DUPLICATE: 2833750

Parameter	Units	10418445001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/m3	ND	<0.23			25
1,3,5-Trimethylbenzene	ug/m3	ND	<0.56			25
Benzene	ug/m3	ND	<0.21			25
Ethylbenzene	ug/m3	ND	<0.23			25
m&p-Xylene	ug/m3	ND	0.60J			25
Methyl-tert-butyl ether	ug/m3	ND	<0.91			25
Naphthalene	ug/m3	ND	<0.81			25
o-Xylene	ug/m3	ND	<0.50			25
Toluene	ug/m3	1.2	1.2	4		25

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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### QUALITY CONTROL DATA

Project: B1800253 Erfurths Citgo  
Pace Project No.: 10418924

SAMPLE DUPLICATE: 2833755

Parameter	Units	10418445002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/m3	ND	0.52J		25	
1,3,5-Trimethylbenzene	ug/m3	ND	<0.61		25	
Benzene	ug/m3	ND	<0.22		25	
Ethylbenzene	ug/m3	ND	<0.25		25	
m&p-Xylene	ug/m3	ND	0.96J		25	
Methyl-tert-butyl ether	ug/m3	ND	<0.99		25	
Naphthalene	ug/m3	ND	<0.89		25	
o-Xylene	ug/m3	ND	<0.55		25	
Toluene	ug/m3	1.8	2.0	10	25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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## QUALIFIERS

Project: B1800253 Erfurths Citgo  
Pace Project No.: 10418924

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: B1800253 Erfurths Citgo  
Pace Project No.: 10418924

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10418924001	SS-1	TO-15	521785		
10418924002	SS-2	TO-15	521785		
10418924003	SS-3	TO-15	521785		
10418924004	SS-4	TO-15	521785		
10418924005	SS-5	TO-15	521785		
10418924006	SS-6	TO-15	521785		

**REPORT OF LABORATORY ANALYSIS**

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10418924

# AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

**Section A**  
Required Client Information:

**Section B**  
Required Project Information:

**Section C**  
Invoice Information:

31237

Page: 1 of 1

Company: <b>Braun Intertec</b>	Report To: <b>Nick Stingl</b>	Attention: <b>Nick Stingl</b>
Address: <b>2309 Palace St. La Crosse, WI 54603</b>	Copy To:	Company Name: <b>Braun</b>
Email To: <b>nstingl@brauintertec.com</b>	Purchase Order No.: <b>B1800253</b>	Address: <b>2309 Palace St., La Crosse, WI 54603</b>
Phone: <b>608-781-7777</b> Fax:	Project Name: <b>E-Furths Ctge</b>	Pace Quote Reference:
Requested Due Date/TAT: <b>Std.</b>	Project Number: <b>B1800253</b>	Pace Project Manager/Sales Rep.
		Pace Profile #:

Program

UST  Superfund  Emissions  Clean Air Act

Voluntary Clean Up  Dry Clean  RCRA  Other

Location of Sampling by State: **WI**

Reporting Units  
 ug/m<sup>3</sup> mg/m<sup>3</sup>  
 PPBV PPMV  
 Other

Report Level:  II  III  IV  Other

ITEM #	Section D Required Client Information <b>AIR SAMPLE ID</b> Sample IDs MUST BE UNIQUE	Valid Media Codes MEDIA CODE Tedlar Bag TB 1 Liter Summa Can ILC 6 Liter Summa Can SLC Low Volume Puff LVP High Volume Puff HVP Other PM10	MEDIA CODE	PIP Reading (Client only)	COLLECTED				Canister Pressure (Initial Field - in Hg)	Canister Pressure (Final Field - in Hg)	Summa Can Number	Flow Control Number	Method:								Pace Lab ID	
					COMPOSITE START		COMPOSITE END/GRAB						PM10	SC - Filter Gas (%)	TO-2 BTEX	TO-3M (Metrang)	TO-14	TO-15 Full List VOCs	TO-15 Short List BTEX	TO-15 Short List Chlormethane		
					DATE	TIME	DATE	TIME														
1	SS-1		6LC	0.0	1-30-18	11:13	1-30-18	12:54	-30	-3	1282	0796								X	001	
2	SS-2			0.0		12:24		13:01	-29	-5	1233	2847								X	002	
3	SS-3			0.0		12:32		13:10	-30	-5	0079	1128								X	003	
4	SS-4			0.0		13:46		14:26	-31	-3	1684	1156								X	004	
5	SS-5			0.0		13:50		13:50	-30	-3	0034	1194								X	005	
6	SS-6			0.0		13:55		13:55	-29	-3	0189	2820								X	006	
7	unused can #1218																					007
8																						
9																						
10																						
11																						
12																						

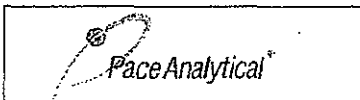
Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
D. Bradshaw	1-30-18	15:30	<i>[Signature]</i>	1/31/18	10:30	Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact

SAMPLER NAME AND SIGNATURE  
 PRINT Name of SAMPLER: **David Bradshaw**  
 SIGNATURE of SAMPLER: *[Signature]* DATE Signed (MM/DD/YY): **1-30-18**

ORIGINAL

Page 12 of 13



Document Name:  
Air Sample Condition Upon Receipt  
Document No.:  
F-MN-A-106-rev.14

Document Revised: 28Dec2017  
Page 1 of 1  
Issuing Authority:  
Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: Braun Interstee Project #: \_\_\_\_\_

WO#: **10418924**



Courier:  Fed Ex  UPS  Speedee  Client  
 Commercial  Pace  Other:

Tracking Number: 7475 9393 5122, 7475 9393 5144

Custody Seal on Cooler/Box Present?  Yes  No Seals Intact?  Yes  No

Packing Material:  Bubble Wrap  Bubble Bags  Foam  None  Tin Can  Other: \_\_\_\_\_ Temp Blank rec:  Yes  No

Temp. (TO17 and TO13 samples only) (°C): \_\_\_\_\_ Corrected Temp (°C): \_\_\_\_\_ Thermom. Used:  151401163

Temp should be above freezing to 6°C Correction Factor: \_\_\_\_\_ Date & Initials of Person Examining Contents: KAC 1/31/18

Type of ice Received  Blue  Wet  None

Comments:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Media: <u>Air Can</u> Airbag Filter TDT Passive		11. Individually Certified Cans Y <u>(N)</u> (list which samples)
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.

Samples Received:					Pressure Gauge # 10AIR26				
Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
SB-1			-1	5					
SB-2			-2.5	"					
SB-3			-2.5	"					
SB-4			-1	"					
SB-5			-2	"					
SB-6			-2.5	"					
Unused can #0971	PACE0971	FC0643	-2.9	—					

CLIENT NOTIFICATION/RESOLUTION

Field Data Required?  Yes  No

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/Resolution: \_\_\_\_\_

Project Manager Review: [Signature]

Date: 2/1/18

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office ( i.e. out of hold, incorrect preservative, out of temp, incorrect containers)