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November 6, 2013

Mr. Paul Drust  
2303 Churchville Road  
Bel Air, Maryland 21015

144514.005.002

Subject: Potable Drinking Water Supply Well Sampling Results  
2303 Churchville Road  
Bel Air, Maryland 21015

Dear Mr. Drust:

Brown and Caldwell, on behalf of Drake Petroleum Company Inc. (Drake) would like to thank you for allowing us to conduct sampling of your potable drinking water supply well on September 12, 2013.

The potable drinking water supply well sample collected from your residence was analyzed for volatile organic compounds (VOCs) including petroleum constituents, using the United States U.S. Environmental Protection Agency (USEPA) approved method for drinking water samples (US EPA Method 524.2). The following constituents were detected in your potable drinking water supply well: Chloroform (0.77 micrograms per Liter ( $\mu\text{g}/\text{L}$ )) and Methyl Tertiary Butyl Ether (0.55  $\mu\text{g}/\text{L}$ ). All detected constituents were below Maryland Department of the Environment (MDE) drinking water standards. The MDE drinking water standard for Chloroform is 80  $\mu\text{g}/\text{L}$  and Methyl Tertiary Butyl Ether is 20  $\mu\text{g}/\text{L}$ , which can be found in the Code of Maryland (COMAR) 26.08.02.03-2. Your analytical results are attached.

As you know, sampling of your potable drinking water supply well was conducted by Drake as part of a groundwater investigation being conducted in cooperation with the MDE and the Harford County Health Department. Drake would like to sample your potable drinking water supply well again in the month of March 2014 as directed by the MDE. BC will contact you regarding the next round of sampling.

Again, thank you for your patience and cooperation. If you have any questions regarding the enclosed test results feel free to call Brown and Caldwell at (856) 330-9406.

Very truly yours,  
**Brown and Caldwell**

A handwritten signature in black ink, appearing to read 'Carolyn Roth', with a large, sweeping flourish at the end.

Carolyn Roth  
Project Manager

cc: Eric Harvey, Drake, (*via electronic submittal*)  
Susan Bull, Maryland Department of the Environment (*via email and FedEx*)  
Jeanette DeBartolomeo, Maryland Department of the Environment (*via email and FedEx*)  
Peter Smith, Harford County Health Department (*via email and FedEx*)

Attachments

## Attachment: Laboratory Data

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**Technical Report for**

**Drake Petroleum Company, Inc.**

**BCNJCH:PC# 007805 Bel Air Xtra Fuels, 2476 Churchville Road, Bel Air, MD**

**143732 PC#007805**

**Accutest Job Number: JB47471**

**Sampling Date: 09/12/13**

**Report to:**

**Brown & Caldwell**

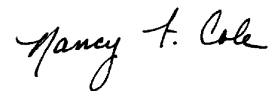
**JMaciejewski@brwnald.com**

**ATTN: Jen Maciejewski**

**Total number of pages in report: 12**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.



**Nancy Cole**  
**Laboratory Director**

**Client Service contact: Kristin Beebe 732-329-0200**

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV

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Test results relate only to samples analyzed.

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## Sample Summary

Drake Petroleum Company, Inc.

**Job No:** JB47471

BCNJCH:PC# 007805 Bel Air Xtra Fuels, 2476 Churchville Road, Bel Air, MD

Project No: 143732 PC#007805

Sample Number	Collected		Matrix			Client Sample ID
	Date	Time By	Received	Code	Type	
JB47471-1	09/12/13	09:28 HW	09/14/13	DW	Drinking Water	2303 CHURCHVILLE

## Summary of Hits

**Job Number:** JB47471  
**Account:** Drake Petroleum Company, Inc.  
**Project:** BCNJCH:PC# 007805 Bel Air Xtra Fuels, 2476 Churchville Road, Bel Air, MD  
**Collected:** 09/12/13

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
<b>JB47471-1</b>	<b>2303 CHURCHVILLE</b>					
Chloroform		0.77	0.50	0.041	ug/l	EPA 524.2 REV 4.1
Methyl Tert Butyl Ether		0.55	0.50	0.11	ug/l	EPA 524.2 REV 4.1



Sample Results

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Report of Analysis

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# Report of Analysis

3.1  
3

<b>Client Sample ID:</b> 2303 CHURCHVILLE	
<b>Lab Sample ID:</b> JB47471-1	<b>Date Sampled:</b> 09/12/13
<b>Matrix:</b> DW - Drinking Water	<b>Date Received:</b> 09/14/13
<b>Method:</b> EPA 524.2 REV 4.1	<b>Percent Solids:</b> n/a
<b>Project:</b> BCNJCH:PC# 007805 Bel Air Xtra Fuels, 2476 Churchville Road, Bel Air, MD	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1B82531.D	1	09/17/13	MFH	n/a	n/a	V1B3858
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
67-64-1	Acetone	ND		5.0	0.90	ug/l	
78-93-3	2-Butanone	ND		5.0	0.74	ug/l	
71-43-2	Benzene	ND	5.0	0.50	0.10	ug/l	
108-86-1	Bromobenzene	ND		0.50	0.13	ug/l	
74-97-5	Bromochloromethane	ND		0.50	0.13	ug/l	
75-27-4	Bromodichloromethane	ND		0.50	0.049	ug/l	
75-25-2	Bromoform	ND		0.50	0.062	ug/l	
74-83-9	Bromomethane	ND		0.50	0.10	ug/l	
104-51-8	n-Butylbenzene	ND		0.50	0.048	ug/l	
135-98-8	sec-Butylbenzene	ND		0.50	0.067	ug/l	
98-06-6	tert-Butylbenzene	ND		0.50	0.031	ug/l	
75-15-0	Carbon disulfide	ND		0.50	0.065	ug/l	
108-90-7	Chlorobenzene	ND	100	0.50	0.033	ug/l	
75-00-3	Chloroethane	ND		0.50	0.091	ug/l	
67-66-3	Chloroform	0.77		0.50	0.041	ug/l	
74-87-3	Chloromethane	ND		0.50	0.12	ug/l	
95-49-8	o-Chlorotoluene	ND		0.50	0.044	ug/l	
106-43-4	p-Chlorotoluene	ND		0.50	0.034	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	0.50	0.053	ug/l	
75-34-3	1,1-Dichloroethane	ND		0.50	0.040	ug/l	
75-35-4	1,1-Dichloroethylene	ND	7.0	0.50	0.079	ug/l	
563-58-6	1,1-Dichloropropene	ND		0.50	0.065	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.20	1.0	0.098	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.050	0.50	0.055	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	0.50	0.053	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	0.50	0.061	ug/l	
142-28-9	1,3-Dichloropropane	ND		0.50	0.048	ug/l	
594-20-7	2,2-Dichloropropane	ND		0.50	0.046	ug/l	
124-48-1	Dibromochloromethane	ND		0.50	0.055	ug/l	
74-95-3	Dibromomethane	ND		0.50	0.075	ug/l	
75-71-8	Dichlorodifluoromethane	ND		0.50	0.064	ug/l	
541-73-1	m-Dichlorobenzene	ND		0.50	0.028	ug/l	

ND = Not detected      MDL - Method Detection Limit  
MCL = Maximum Contamination Level (40 CFR 141)  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	2303 CHURCHVILLE	<b>Date Sampled:</b>	09/12/13
<b>Lab Sample ID:</b>	JB47471-1	<b>Date Received:</b>	09/14/13
<b>Matrix:</b>	DW - Drinking Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	EPA 524.2 REV 4.1		
<b>Project:</b>	BCNJCH:PC# 007805 Bel Air Xtra Fuels, 2476 Churchville Road, Bel Air, MD		

## VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
95-50-1	o-Dichlorobenzene	ND	600	0.50	0.036	ug/l	
106-46-7	p-Dichlorobenzene	ND	75	0.50	0.050	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	100	0.50	0.12	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	70	0.50	0.066	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.042	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.068	ug/l	
108-20-3	Di-Isopropyl ether	ND		0.50	0.051	ug/l	
100-41-4	Ethylbenzene	ND	700	0.50	0.021	ug/l	
637-92-3	Ethyl tert Butyl Ether	ND		0.50	0.042	ug/l	
87-68-3	Hexachlorobutadiene	ND		0.50	0.037	ug/l	
110-54-3	Hexane	ND		0.50	0.15	ug/l	
591-78-6	2-Hexanone	ND		2.0	0.36	ug/l	
98-82-8	Isopropylbenzene	ND		0.50	0.054	ug/l	
99-87-6	p-Isopropyltoluene	ND		0.50	0.025	ug/l	
75-09-2	Methylene chloride	ND	5.0	0.50	0.072	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.55		0.50	0.11	ug/l	
108-10-1	4-Methyl-2-pentanone	ND		2.0	0.15	ug/l	
91-20-3	Naphthalene	ND		0.50	0.029	ug/l	
103-65-1	n-Propylbenzene	ND		0.50	0.055	ug/l	
100-42-5	Styrene	ND	100	0.50	0.028	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND		0.50	0.10	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.047	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	200	0.50	0.064	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.025	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.50	0.033	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND		0.50	0.068	ug/l	
96-18-4	1,2,3-Trichloropropane	ND		0.50	0.064	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	70	0.50	0.047	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND		0.50	0.064	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND		0.50	0.047	ug/l	
127-18-4	Tetrachloroethylene	ND	5.0	0.50	0.052	ug/l	
108-88-3	Toluene	ND	1000	0.50	0.045	ug/l	
79-01-6	Trichloroethylene	ND	5.0	0.50	0.063	ug/l	
75-69-4	Trichlorofluoromethane	ND		1.0	0.072	ug/l	
75-65-0	Tertiary Butyl Alcohol	ND		5.0	0.53	ug/l	
75-01-4	Vinyl chloride	ND	2.0	0.50	0.065	ug/l	
	m,p-Xylene	ND		0.50	0.045	ug/l	
95-47-6	o-Xylene	ND		0.50	0.030	ug/l	
1330-20-7	Xylenes (total)	ND	10000	0.50	0.030	ug/l	

ND = Not detected      MDL - Method Detection Limit  
MCL = Maximum Contamination Level (40 CFR 141)  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

## Report of Analysis

3.1  
3

<b>Client Sample ID:</b> 2303 CHURCHVILLE		<b>Date Sampled:</b> 09/12/13
<b>Lab Sample ID:</b> JB47471-1		<b>Date Received:</b> 09/14/13
<b>Matrix:</b> DW - Drinking Water		<b>Percent Solids:</b> n/a
<b>Method:</b> EPA 524.2 REV 4.1		
<b>Project:</b> BCNJCH:PC# 007805 Bel Air Xtra Fuels, 2476 Churchville Road, Bel Air, MD		

**VOA List**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	90%		78-114%
460-00-4	4-Bromofluorobenzene	93%		77-115%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

ND = Not detected      MDL - Method Detection Limit  
 MCL = Maximum Contamination Level (40 CFR 141)  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

Misc. Forms

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Custody Documents and Other Forms

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Includes the following where applicable:

- Chain of Custody



## Accutest Laboratories Sample Receipt Summary

**Accutest Job Number:** JB47471     
 **Client:** DRAKE PETROLEUM COMPANY INC.     
 **Project:** BEL AIR XTRA FUELS PC#007805  
**Date / Time Received:** 9/14/2013     
 **Delivery Method:** FedEx     
 **Airbill #s:** 803475300465

**Cooler Temps (Initial/Adjusted):** #1: (2/2): 0

<u>Cooler Security</u>		<u>Y or N</u>		<u>Y or N</u>	
1. Custody Seals Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3. COC Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Custody Seals Intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4. Smpl Dates/Time OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>

<u>Cooler Temperature</u>		<u>Y or N</u>	
1. Temp criteria achieved:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Cooler temp verification:	_____		
3. Cooler media:	_____		
4. No. Coolers	_____		

<u>Quality Control</u>	<u>Preservatio</u>	<u>Y</u>	<u>N</u>	<u>N/A</u>
1. Trip Blank present / cooler:		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Trip Blank listed on COC:		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Samples preserved properly:		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. VOCs headspace free:		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

<u>Sample Integrity - Documentation</u>		<u>Y or N</u>	
1. Sample labels present on bottles:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Container labeling complete:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3. Sample container label / COC agree:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

<u>Sample Integrity - Condition</u>		<u>Y or N</u>	
1. Sample recvd within HT:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. All containers accounted for:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3. Condition of sample:	Intact		

<u>Sample Integrity - Instructions</u>	<u>Y</u>	<u>N</u>	<u>N/A</u>
1. Analysis requested is clear:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Bottles received for unspecified tests	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Sufficient volume recvd for analysis:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. Compositing instructions clear:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments -1. LABEL TIME IS 9:28 COC TIME IS 9:05 I.D. AND DATE OK

4.1  
4



## Sample Receipt Summary - Problem Resolution

Accutest Job Number: JB47471

CSR: Kristin Beebe

Response Date: 9/16/2013

Response: Collection time is 9:28 per Carolyn Roth

4.1

4

Accutest Laboratories  
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Dayton, New Jersey  
www.accutest.com

**JB47471: Chain of Custody**  
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