535 Route 38 East, Suite 355 Cherry Hill, New Jersey 08002

T: 856.382.7170 F: 856.330.9401



November 6, 2013

Mr. Michael T. Axelsson & Ms. Krystin Porcella 2317 Churchville Road Bel Air, Maryland 21015

144514.005.002

Subject: Potable Drinking Water Supply Well Sampling Results 2317 Churchville Road Bel Air, Maryland 21015

Dear Mr. Axelsson and Ms. Porcella:

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 (an estimated 0.058 micrograms per Liter (μ g/L)), p-Dichlorobenzene (an estimated 0.062 μ g/L), and Methyl Tertiary Butyl Ether (0.52 μ g/L). All detected constituents were below Maryland Department of the Environment (MDE) drinking water standards. The MDE drinking water standard for Chloroform is 80 μ g/L, p-Dichlorobenzene is 63 μ g/L, and Methyl Tertiary Butyl Ether is 20 μ g/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 September 2014 as directed by the MDE. BC will contact you regarding the next round of sampling.

Mr. Michael T. Axelsson & Ms. Krystin Porcella November 6, 2013 Page 2

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

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)
 Deter Smith, Harford County Health Department (via email and FedEx)

Peter Smith, Harford County Health Department (via email and FedEx)

Attachments

Attachment: Laboratory Data





10/29/13

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: JB47440

Sampling Date: 09/12/13

Report to:

Brown & Caldwell

JMaciejewski@brwncald.com

ATTN: Jen Maciejewski

Total number of pages in report: 11



Mancy F. Cole

Nancy Cole Laboratory Director

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.

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

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories. Test results relate only to samples analyzed.

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Sample Summary

Drake Petroleum Company, Inc.

Job No: JB47440 Dad Bel Air MD

BCNJCH:PC# 007805 Bel Air Xtra Fuels, 2476 Churchville Road, Bel Air, MD Project No: 143732 PC#007805

Sample	Collected			Matr	rix	Client
Number	Date	Time By	Received	Code	е Туре	Sample ID
JB47440-1	09/12/13	10:45 HW	09/14/13	DW	Drinking Water	2317 CHURCHVILLE



Summary of Hits

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Job Number:	JB47440
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 S Analyte	Sample ID Result/ Qual RI		MDL	Units	Method
JB47440-1 2317 C	HURCHVILLE				
Chloroform p-Dichlorobenzene Methyl Tert Butyl Ether	0.058 J 0.062 J 0.52	0.50 0.50 0.50	0.041 0.050 0.11	ug/l ug/l ug/l	EPA 524.2 REV 4.1 EPA 524.2 REV 4.1 EPA 524.2 REV 4.1

Page 1 of 1

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JB47440 4 of 11 LABORATORIES



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Sample Results

Report of Analysis



Client Saı Lab Samı Matrix: Method: Project:	ple ID: JI D E	317 CHURCHV B47440-1 W - Drinking W PA 524.2 REV CNJCH:PC# 00	Vater 4.1	tra Fuels,	Date Sampled:09/12/13Date Received:09/14/13Percent Solids:n/aA 2476 Churchville Road, Bel Air, MD						
File II Run #1 1B8252 Run #2		DF D 1	Analyzed 09/17/13	By MFH	Prep Date n/a	Prep Batch n/a	Analytical Batch V1B3858				
	Purge Vo	lume									

Report of Analysis

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	0.058		0.50	0.041	ug/l	J
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

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Client Sample ID:	2317 CHURCHVILLE		
Lab Sample ID:	JB47440-1	Date Sampled:	09/12/13
Matrix:	DW - Drinking Water	Date Received:	09/14/13
Method:	EPA 524.2 REV 4.1	Percent Solids:	n/a
Project:	BCNJCH:PC# 007805 Bel Air Xtra Fuels,	2476 Churchville Road, Bel Air	r, MD
0			

Report of Analysis

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	0.062	75	0.50	0.050	ug/l J
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	0.52		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

Page 2 of 3

JB47440 7 of 11

Accutest LabLink@760551 15:47 29-Oct-2013

Client Samj Lab Sample Matrix: Method: Project:	-	2317 CHURCHVILLI JB47440-1 DW - Drinking Water EPA 524.2 REV 4.1 BCNJCH:PC# 007805		a Fuels, 247	Da Pe	te Sampled: 09/12/13 te Received: 09/14/13 rcent Solids: n/a Road, Bel Air, MD
VOA List						
CAS No.	Surro	gate Recoveries	Run# 1	Run# 2	Limits	
2199-69-1 460-00-4	,	ichlorobenzene-d4 mofluorobenzene	93% 95%		78-114% 77-115%	
CAS No. Ten		tively Identified Comp	ounds	R.T.	Est. Conc.	Units Q
	Total	TIC, Volatile			0	ug/l

Report of Analysis

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



JB47440

Section 4

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Misc. Forms	
Custody Documents and Other Forms	
Custody Documents and Other Forms	

Includes the following where applicable:

• Chain of Custody



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	Client / Reporting Information				Project	Informa	ation									Requ	ester	Anal	ysis (see T	EST C	ODE	sheet)			Matrix Codes
Compar	ny Name		Project Name:												5242											DW - Drinking Water
	etroleum Company, Inc. Attn: Eric Harve	у		uels PC#00780	5										8 22											GW - Ground Water WW - Water
Street A	ddress	1	Street										01256	Method											SW - Surface Water	
P.O. Box	x 966 221 Quinebaug Road State	Zip	2476 Church City	ville Rd.	Billing Compan		on (if diff	erent	from F	Report	to)		_	EPA											SO - Soil SL- Sludge	
	th Grosvenordale CT	•	Bei Air		MD																					SED-Sediment OI - Oli
Project			Project #	144514		Street A	ddress								oxygenates											LIQ - Other Liquid AIR - Air
		brwncald.	com			0				State			Zip													SOL - Other Solid
Phone #		Fax #	Client Purchase	Order # #007805		City			2	state			Ziþ		with fuel											WP - Wipe FB-Field Blank
	-545-4902 r(s) Name(s)	Phone #	Project Manager			Attentior	1:							-	+15 w			- 1								EB-Equipment Blank RB- Rinse Blank
	iter White		Carolyn Roth												VOCs +											TB-Trip Blank
					Collection		-		L,	Numbe	r of pre	served	Bottles													
Accules Sample #	Field ID / Point of Collection		MEOH/DI Vial #	Date	Time	Sampled by	Matrix	# of bottles	豆	HN03	H2SO4	Di Water	MEOH		Full suite											LAB USE ONLY
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Hard Color	Turnaround Time (Business days) Std. 15 Business Days	· · · · · ·	Approved By (Acc	utest PM): / Date:			Commerc	al "A" (L						ategory	γ A					0011		0,000			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
	X Std. 10 Business Days (by Contract o	mly)	/ day by WEI o	contract				:iai "B" (L		2)	C	_		ategory	у В	Ļ										
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	5 Day RUSH 3 Day EMERGENCY						NJ Reduc				F	_	her	mat		— ŀ										
	2 Day EMERGENCY							Commerc	iai "A"	= Re					-											
_i								Commerce NJ Reduce							aw da	.										
Eme	argency & Rush T/A data available VIA Lablin		Sam	ole Custody mu	st be docum	ented be	elow eac										er deli	very.								
	quished by Sampler: 9/13/13	Date Time:		1 Fe	d Ex				Relina 2	quishe	d By:	Fed	E	×				9/14	13	8933	Beceive 2			حر '	4	7
Retine	quished by Sampler:	Date Time:		Received By: 3					Reline 4	quishe	d By:			Date Time: Received By:												
<u> </u>	quished by:	Date Time:		Received By: 5					Custo	ody Sea	4					ļ	reserv	ed where	applica	sble			on lo		Cooler	Temp. 2°C.
4																										

JB47440: Chain of Custody Page 1 of 2



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Accutest Laboratories Sample Receipt Summary

Accutest Job Number:	JB47440	Client:		Project:	
Date / Time Received:	9/14/2013		Delivery Method:	Airbill #'s:	
Cooler Temps (Initial/Ac	djusted): <u>#1: (2/2)</u> ;	0			
Cooler Security	Y or N			Sample Integrity - Documentation	Y or N
1 Custody Seals Present:		COC Pr	esent: 🔽 🗌	1. Comple lebels present on bettles:	

1. Custody Seals Present:	J. COC Present.	 Sample labels present on bottles: 	
2. Custody Seals Intact:	4. Smpl Dates/Time OK	2. Container labeling complete:	
Cooler Temperature	Y or N	3. Sample container label / COC agree:	
1. Temp criteria achieved:		Sample Integrity - Condition	Y or N
2. Cooler temp verification:	IR Gun	1. Sample recvd within HT:	
3. Cooler media:	Ice (Bag)	2. All containers accounted for:	
4. No. Coolers:	1	3. Condition of sample:	Intact
Quality Control Preservatio	Y or N N/A	Sample Integrity - Instructions	<u>Y or N N/A</u>
4 T C DI 1 1 1 1			
1. Trip Blank present / cooler:		1. Analysis requested is clear:	
 Trip Blank present / cooler: Trip Blank listed on COC: 		 Analysis requested is clear: Bottles received for unspecified tests 	
		, ,	
2. Trip Blank listed on COC:		2. Bottles received for unspecified tests	
 2. Trip Blank listed on COC: 3. Samples preserved properly: 		 Bottles received for unspecified tests Sufficient volume recvd for analysis: 	

Comments

Accutest Laboratories V:732.329.0200 2235 US Highway 130 F: 732.329.3499 Dayton, New Jersey www/accutest.com 4.1 **4**

JB47440: Chain of Custody Page 2 of 2

