NUTSHELL
ENTERPRISES, LTD.

Environmental
Consulting,
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4059 Norrisville Road
Jarrettsville, MD 21084
Phone (410) 557-7583
Fax (410) 557-8804

February 13, 2012

Ms. Jeannette DeBartolomeo
Compliance Specialist
Maryland Department of the Environment
Oil Control Program
1800 Washington Boulevard, Suite 620
Baltimore, MD 21230-1719

High's 130 Madonna
4101 Norrisville Road
Facility ID 2057
MDE Case No. 2006-0442HA

Request for Case Closure & Reduced Sampling Frequency

Dear Ms. DeBartolomeo:

Based on the historical sampling data collected at facility 2057, beginning in July 2005 (in compliance with MDE groundwater monitoring requirements at UST sites located in a HRGUA) closure of case 2006-0442HA is recommended. Annual sampling of the onsite monitoring wells is recommended for VOCs + fuel oxygenates only. Annual gauging and screening of the onsite tank field wells by PID is recommended. Annual sampling of the supply well for the presence of VOCs + fuel oxygenates is recommended.

Thank you for your consideration of this request. If you have any questions, please do not hesitate to contact me at 410-557-7583, or nutshellart@zoominternet.net.

Sincerely,

Arthur A. Shellhouse, CPEA

Attachment

cc: Susan Bull, MDE Western Region Section Head
Ed Broderick, High's
Melissa Heffner, High's

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2012 JANUARY HRGUA SEMIANNUAL MONITORING WELLS & DOMESTIC WELL SAMPLING REPORT

Subject Property

HIGH'S 130
4101 Norrisville Road
Madonna, MD
Facility ID 2057
MDE Case No 2006-0442HA

Prepared for

High's of Baltimore, Inc.
7477 New Ridge Road
Hanover, MD 21076

Prepared by: _____
Arthur A. Shellhouse
Certified Professional Environmental Auditor

February 13, 2012

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Attachments

Groundwater Directional Flow Map
Historical Analytical Data
Appendix 1: Certificate of Analysis

1. Monitoring Well Installations

In compliance with MDE emergency regulations (COMAR 26.10.02), governing existing gasoline systems in a high risk groundwater use area, three monitoring wells (MW-1, MW-2, MW-3) were installed on the subject property in June 2005.

2. July 26, 2011 Monitoring Well Sampling Event

Monitoring wells MW-1, MW-2 & MW-3 were gauged with an electronic interface tape to detect the presence of free product and to gauge the depth to water. Product was not detected in any of the wells.

Well TF-2 was dry.

Well Log Date: 1/30/2012

Well ID	DTP (ft)	DTW (ft)	Product Thickness (ft)	Well Depth (ft)	Well Di (in)	Water Column (ft)	Well Vol (gal)	Purged Vol (gal)	Purge Method	Sample Method	PID (ppm)
MW-1	ND	18.96	ND	33.5	4	14.54	9.5	30	Pump	Bailer	NS
MW-2	ND	19.96	ND	31.2	4	11.24	7.3	25	Pump	Bailer	NS
MW-3	ND	20.04	ND	31	4	10.96	7.1	25	Pump	Bailer	NS
TF-1	ND	12.06	ND	12.6	4	0	0	---	Pump	Bailer	0.0
TF-2	ND	Dry	ND	11.9	4	0	0	---	Pump	Bailer	0.0
TF-3	ND	12.24	ND	12.8	4	0	0	---	Pump	Bailer	0.0
TF-4	ND	12.43	ND	12.6	4	0	0	---	Pump	Bailer	0.0

ND=not detected DTP=depth to product DTW=depth to water Di=diameter Vol=volume NS=not sampled
Well Volume = water column x 0.65 for 4" well

Sampling Protocol

Wells MW-1, MW-2 and MW-3 were each purged of at least three well volumes prior to sampling. The technician wore disposable gloves that were discarded after each purging and after obtaining samples from each well. A new dedicated bailer was used to collect samples from each well.

The samples were collected in laboratory–supplied containers, placed on ice and delivered to Caliber Analytical Services, Towson. The samples were analyzed for full suite VOC's and fuel oxygenates, using EPA Method 8260B; TPH-DRO, TPH-GRO using EPA Method 8015C.

Tank field wells TF-1, TF-3 and TF-4 were not sampled due to the presence of sediment, gravel and other debris observed in the bailers.

Summary of Groundwater Analytical Results Sample Date: 1/30/2012

Sample ID	Benzene ug/L	Toluene ug/L	Ethylbenzene ug/L	Xylenes ug/L	Total BTEX ug/L	MTBE ug/L	TPH-DRO mg/L	TPH-GRO mg/L
MW-1	**27**	ND	ND	ND	27	**26**	**0.25**	**0.29**
MW-2	ND	ND	ND	ND	ND	5	ND	ND
MW-3	ND	ND	ND	ND	ND	3	**0.23**	ND
MDE GW Standards	**5**	**1,000**	**700**	**10,000**	**11,705**	**20**	**0.047**	**0.047**

ND = non detect NS = not sampled

3. January 30, 2012 Supply Well Sampling Event

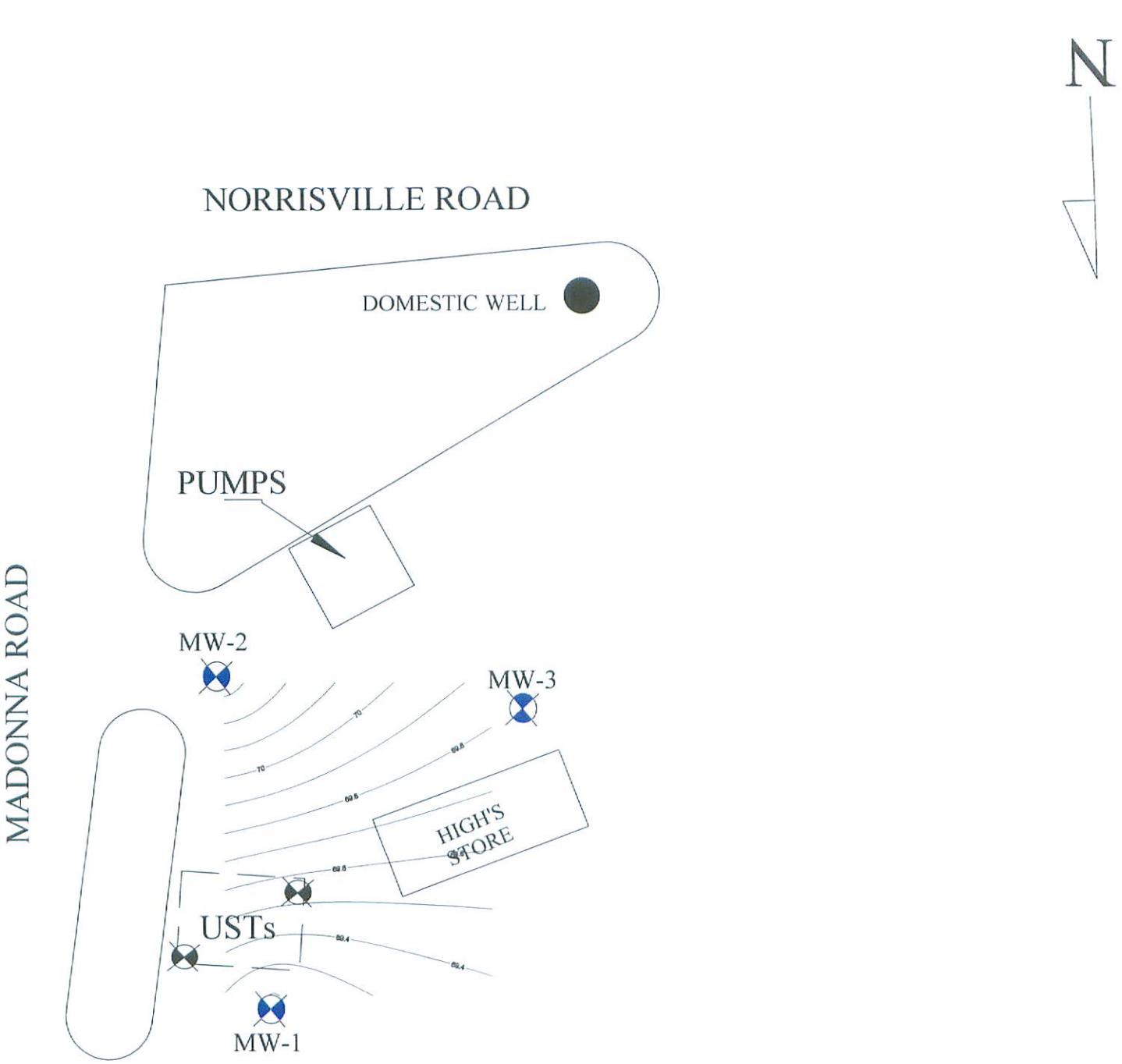
The supply well was purged for ten minutes, prior to collecting the drinking water sample. The sample was collected in a laboratory-prepared bottle, placed on ice and delivered to Caliber Analytical Services, Towson, MD. The sample was analyzed for VOC's + fuel oxygenates using EPA Method 524.2

No VOC's or fuel oxygenates were detected in the supply well.

Annual sampling frequency of the supply well at this location is requested.

4. Next Semiannual Sampling Event

The next semiannual sampling event at this facility is scheduled for July 2012.



GROUNDWATER MONITORING WELL

TANK FIELD MONITORING WELL

SCALE: 1" = 50'

GROUNDWATER DIRECTIONAL FLOW

JAN 23, 2008

HIGH'S OF BALTIMORE INC. # 130
4101 NORRISVILLE ROAD
MADONNA, MD

NUTSHELL ENTERPRISES, LTD.
Environmental Consulting, Engineering and Construction
4059 Norrisville Road
Jarrettsville, MD 21084
Phone (410) 557-7593
Fax (410) 557-8804

FIGURE 3
GROUNDWATER AND ANALYTICAL DATA
HIGH'S MADONNA # 130
4101 NORRISVILLE ROAD

WELL ID	DATE	TOP OF CASING ELEVATION (FT)	DEPTH TO WATER (FT)	DEPTH TO PRODUCT (FT)	PRODUCT THICKNESS (FT)	CORRECTED GW ELEVATION (FT)	BENZENE ug/L	TOLUENE ug/L	ETHYLBENZENE ug/L	XYLENES ug/L	TOTAL BTEX ug/L	MTBE ug/L	TPH-GRO mg/L	TPH-DRO mg/L
MW-1	7/13/05	6.37	18.71	ND	ND	74.92	ND	2	ND	ND	2	1,300	NS	NS
	12/28/05	6.37	21.73	ND	ND	71.90	ND	15	ND	ND	15	1,600	1.5	ND
	6/15/06	6.37	20.66	ND	ND	72.97	ND	ND	ND	ND	ND	1,200	0.9	ND
	1/17/07	6.37	21.02	ND	ND	72.61	ND	ND	ND	ND	ND	140	ND	ND
	7/31/07	6.37	20.78	ND	ND	72.85	ND	ND	ND	ND	ND	190	ND	0.35
	1/23/08	6.37	24.44	ND	ND	69.19	ND	ND	ND	ND	ND	76	ND	ND
	7/24/08	6.37	21.68	ND	ND	71.95	ND	ND	ND	ND	ND	210	0.3	ND
	1/30/09	6.37	25.01	ND	ND	68.62	ND	ND	ND	ND	ND	73	ND	0.26
	7/20/09	6.37	23.51	ND	ND	70.12	ND	ND	ND	ND	ND	120	ND	ND
	3/1/10	6.37	18.80	ND	ND	74.83	ND	ND	ND	ND	ND	130	ND	ND
	7/31/10	6.37	19.91	ND	ND	73.72	ND	ND	ND	ND	ND	87	0.23	ND
	1/31/11	6.37	23.41	ND	ND	70.22	6	ND	ND	ND	6	47	ND	0.26
	7/26/11	93.63	19.79	ND	ND	73.84	38	ND	ND	ND	38	45	0.56	ND
	01/01/12	93.63	18.96	ND	ND	74.67	27	ND	ND	ND	27	26	0.29	0.25
MW-2	7/13/05	4.15	19.64	ND	ND	76.21	ND	1	ND	ND	1	9	NS	NS
	12/28/05	4.15	22.85	ND	ND	73.00	9	16	6	26	57	15	0.3	ND
	6/15/06	4.15	21.65	ND	ND	74.20	ND	ND	ND	ND	ND	26	ND	0.30
	1/17/07	4.15	22.03	ND	ND	73.82	ND	ND	ND	ND	ND	42	ND	ND
	7/31/07	4.15	21.84	ND	ND	74.01	ND	ND	ND	ND	ND	4	ND	0.38
	1/23/08	4.15	25.5	ND	ND	70.35	ND	ND	ND	ND	ND	2	ND	ND
	7/24/08	4.15	22.42	ND	ND	73.43	ND	ND	ND	ND	ND	3	ND	ND
	1/30/09	4.15	25.96	ND	ND	69.89	ND	ND	ND	ND	ND	4	ND	ND
	7/20/09	4.15	24.35	ND	ND	71.50	ND	ND	ND	ND	ND	5	ND	ND
	3/1/10	4.15	19.97	ND	ND	75.88	ND	ND	ND	ND	ND	4	N	ND
	7/31/10	4.15	20.35	ND	ND	75.50	ND	ND	ND	ND	ND	3	ND	ND
	1/31/11	4.15	24.14	ND	ND	71.71	ND	ND	ND	ND	ND	6	ND	ND
	7//26/11	95.85	20.5	ND	ND	75.35	ND	ND	ND	ND	ND	4	ND	ND
	1/10/12	95.85	19.96	ND	ND	75.89	ND	ND	ND	ND	ND	5	ND	ND
MW-3	7/13/05	4.72	19.79	ND	ND	75.49	ND	1	ND	ND	1	180	NS	NS
	12/28/05	4.72	22.91	ND	ND	72.37	6	12	4	21	43	280	0.6	0.72
	6/15/06	4.72	21.70	ND	ND	73.58	ND	ND	ND	ND	ND	330	ND	0.30
	1/17/07	4.72	22.16	ND	ND	73.12	ND	ND	ND	ND	ND	140	ND	ND
	7/31/07	4.72	21.98	ND	ND	73.3	ND	ND	ND	ND	ND	190	ND	ND
	1/23/08	4.72	25.46	ND	ND	69.82	ND	ND	ND	ND	ND	69	ND	0.26
	7/24/08	4.72	22.49	ND	ND	72.79	ND	ND	ND	ND	ND	12	ND	0.39
	1/30/09	4.72	25.84	ND	ND	69.44	ND	ND	ND	ND	ND	3	ND	ND
	7/20/09	4.27	24.3	ND	ND	71.43	ND	7	ND	ND	7	4	ND	0.26
	3/1/10	4.27	20.03	ND	ND	75.7	ND	ND	ND	ND	ND	ND	ND	1.10
	7/31/10	4.72	20.41	ND	ND	74.87	ND	ND	ND	ND	ND	5	ND	0.24
	1/31/11	4.72	23.9	ND	ND	71.38	ND	ND	ND	ND	ND	4	ND	0.45
	7/26/11	95.28	20.58	ND	ND	74.7	ND	ND	ND	ND	ND	3	ND	ND
	1/30/12	95.28	20.04	ND	ND	75.24	ND	ND	ND	ND	ND	3	ND	0.23
				GROUNDWATER STANDARDS ug/L			5	1,000	700	10,000	11,705	20	0.047	0.047

NS= Not Sampled ND= Not Detected
concentrations over the clean-up standards

CALIBER ANALYTICAL SERVICES

Certificate of Analysis

Nutshell Enterprises
4059 Norrisville Road
Jarrettsville, MD 21084

Date Sampled: 01/28/12 11:10
Date Received: 01/31/12 9:40
Date Issued: 02/07/12

Project: High's # 130
Site Location: Madonna, MD
Project Number: 4101 Norrisville Road

SDG Number: 12013104

Field Sample ID: MW-1 **Matrix: Water** **Lab ID: 12013104-01**

	Result	Unit	LLQ	Method	Prepared	Analyzed	Init.
Target Compound List - VOLATILES							
Dichlorodifluoromethane	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 16:55	JKL
Chloromethane	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 16:55	JKL
Vinyl chloride	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 16:55	JKL
Bromomethane	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 16:55	JKL
Chloroethane	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 16:55	JKL
Trichlorofluoromethane	ND	ug/L	5	EPA 8260B	02/01/12	02/01/12 16:55	JKL
1,1-Dichloroethene	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 16:55	JKL
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 16:55	JKL
Acetone	ND	ug/L	10	EPA 8260B	02/01/12	02/01/12 16:55	JKL
Carbon disulfide	ND	ug/L	5	EPA 8260B	02/01/12	02/01/12 16:55	JKL
Methyl acetate	ND	ug/L	5	EPA 8260B	02/01/12	02/01/12 16:55	JKL
Methylene chloride	ND	ug/L	5	EPA 8260B	02/01/12	02/01/12 16:55	JKL
trans-1,2-Dichloroethene	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 16:55	JKL
Methyl t-butyl ether (MTBE)	**26**	ug/L	1	EPA 8260B	02/01/12	02/01/12 16:55	JKL
1,1-Dichloroethane	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 16:55	JKL
cis-1,2-Dichloroethene	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 16:55	JKL
2-Butanone (MEK)	ND	ug/L	5	EPA 8260B	02/01/12	02/01/12 16:55	JKL
Chloroform	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 16:55	JKL
1,1,1-Trichloroethane	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 16:55	JKL
Cyclohexane	**6**	ug/L	5	EPA 8260B	02/01/12	02/01/12 16:55	JKL
Carbon tetrachloride	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 16:55	JKL
Benzene	**27**	ug/L	1	EPA 8260B	02/01/12	02/01/12 16:55	JKL
1,2-Dichloroethane	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 16:55	JKL
Trichloroethene	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 16:55	JKL
Methylcyclohexane	ND	ug/L	5	EPA 8260B	02/01/12	02/01/12 16:55	JKL
1,2-Dichloropropane	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 16:55	JKL
Bromodichloromethane	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 16:55	JKL
cis-1,3-Dichloropropene	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 16:55	JKL
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5	EPA 8260B	02/01/12	02/01/12 16:55	JKL
Toluene	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 16:55	JKL
trans-1,3-Dichloropropene	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 16:55	JKL
1,1,2-Trichloroethane	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 16:55	JKL
Tetrachloroethene	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 16:55	JKL
2-Hexanone (MBK)	ND	ug/L	5	EPA 8260B	02/01/12	02/01/12 16:55	JKL
Dibromochloromethane	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 16:55	JKL
1,2-Dibromoethane	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 16:55	JKL
Chlorobenzene	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 16:55	JKL
Ethylbenzene	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 16:55	JKL
m&p-Xylene	ND	ug/L	2	EPA 8260B	02/01/12	02/01/12 16:55	JKL
o-Xylene	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 16:55	JKL

8851 Orchard Tree Lane Towson, Maryland 21286
tel: 410.825.1151 fax: 410.825.2126 www.caslabs.net

CALIBER ANALYTICAL SERVICES

Certificate of Analysis

Nutshell Enterprises
4059 Norrisville Road
Jarrettsville, MD 21084

Date Sampled: 01/28/12 11:10
Date Received: 01/31/12 9:40
Date Issued: 02/07/12

Project: High's # 130
Site Location: Madonna, MD
Project Number: 4101 Norrisville Road

SDG Number: 12013104

Field Sample ID: MW-1 **Matrix: Water** **Lab ID: 12013104-01**

	Result	Unit	LLQ	Method	Prepared	Analyzed	Init.
Target Compound List - VOLATILES							
Styrene	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 16:55	JKL
Bromoform	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 16:55	JKL
Isopropylbenzene	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 16:55	JKL
1,1,2,2-Tetrachloroethane	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 16:55	JKL
1,3-Dichlorobenzene	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 16:55	JKL
1,4-Dichlorobenzene	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 16:55	JKL
1,2-Dichlorobenzene	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 16:55	JKL
1,2-Dibromo-3-chloropropane	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 16:55	JKL
1,2,4-Trichlorobenzene	ND	ug/L	2	EPA 8260B	02/01/12	02/01/12 16:55	JKL
Naphthalene	ND	ug/L	10	EPA 8260B	02/01/12	02/01/12 16:55	JKL
Ethyl t-butyl ether (ETBE)	**2**	ug/L	1	EPA 8260B	02/01/12	02/01/12 16:55	JKL
tert-Butanol (TBA)	**100**	ug/L	25	EPA 8260B	02/01/12	02/01/12 16:55	JKL
Diisopropyl ether (DIPE)	**23**	ug/L	1	EPA 8260B	02/01/12	02/01/12 16:55	JKL
tert-Amyl methyl ether (TAME)	**1**	ug/L	1	EPA 8260B	02/01/12	02/01/12 16:55	JKL
tert-Amyl alcohol (TAA)	ND	ug/L	25	EPA 8260B	02/01/12	02/01/12 16:55	JKL
tert-Amyl ethyl ether (TAEE)	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 16:55	JKL
Total Petroleum Hydrocarbons - (C10-C28) DRO							
Diesel Range Organics	**0.25**	mg/L	0.2	EPA 8015C	02/06/12	02/07/12 14:17	AC
Total Petroleum Hydrocarbons - (C6-C10) GRO							
Gasoline Range Organics	**0.29**	mg/L	0.2	EPA 8015C	01/31/12	02/01/12 12:13	CBS

Notes/Qualifiers:
LLQ- Lowest Level of Quantitation
ND - Not Detected at a concentration greater than or equal to the LLQ.

Approved by: Matt Oshea
QC Chemist

8851 Orchard Tree Lane Towson, Maryland 21286
tel: 410.825.1151 fax: 410.825.2126 www.caslabs.net

CALIBER ANALYTICAL SERVICES

Certificate of Analysis

Nutshell Enterprises
4059 Norrisville Road
Jarrettsville, MD 21084

Date Sampled: 01/28/12 10:20
Date Received: 01/31/12 9:40
Date Issued: 02/07/12

Project: High's # 130
Site Location: Madonna, MD
Project Number: 4101 Norrisville Road

SDG Number: 12013104

Field Sample ID: MW-2 **Matrix: Water** **Lab ID: 12013104-02**

	Result	Unit	LLQ	Method	Prepared	Analyzed	Init.
Target Compound List - VOLATILES							
Dichlorodifluoromethane	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 17:35	JKL
Chloromethane	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 17:35	JKL
Vinyl chloride	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 17:35	JKL
Bromomethane	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 17:35	JKL
Chloroethane	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 17:35	JKL
Trichlorofluoromethane	ND	ug/L	5	EPA 8260B	02/01/12	02/01/12 17:35	JKL
1,1-Dichloroethene	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 17:35	JKL
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 17:35	JKL
Acetone	ND	ug/L	10	EPA 8260B	02/01/12	02/01/12 17:35	JKL
Carbon disulfide	ND	ug/L	5	EPA 8260B	02/01/12	02/01/12 17:35	JKL
Methyl acetate	ND	ug/L	5	EPA 8260B	02/01/12	02/01/12 17:35	JKL
Methylene chloride	ND	ug/L	5	EPA 8260B	02/01/12	02/01/12 17:35	JKL
trans-1,2-Dichloroethene	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 17:35	JKL
Methyl t-butyl ether (MTBE)	5	ug/L	1	EPA 8260B	02/01/12	02/01/12 17:35	JKL
1,1-Dichloroethane	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 17:35	JKL
cis-1,2-Dichloroethene	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 17:35	JKL
2-Butanone (MEK)	ND	ug/L	5	EPA 8260B	02/01/12	02/01/12 17:35	JKL
Chloroform	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 17:35	JKL
1,1,1-Trichloroethane	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 17:35	JKL
Cyclohexane	ND	ug/L	5	EPA 8260B	02/01/12	02/01/12 17:35	JKL
Carbon tetrachloride	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 17:35	JKL
Benzene	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 17:35	JKL
1,2-Dichloroethane	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 17:35	JKL
Trichloroethene	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 17:35	JKL
Methylcyclohexane	ND	ug/L	5	EPA 8260B	02/01/12	02/01/12 17:35	JKL
1,2-Dichloropropane	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 17:35	JKL
Bromodichloromethane	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 17:35	JKL
cis-1,3-Dichloropropene	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 17:35	JKL
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5	EPA 8260B	02/01/12	02/01/12 17:35	JKL
Toluene	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 17:35	JKL
trans-1,3-Dichloropropene	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 17:35	JKL
1,1,2-Trichloroethane	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 17:35	JKL
Tetrachloroethene	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 17:35	JKL
2-Hexanone (MBK)	ND	ug/L	5	EPA 8260B	02/01/12	02/01/12 17:35	JKL
Dibromochloromethane	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 17:35	JKL
1,2-Dibromoethane	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 17:35	JKL
Chlorobenzene	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 17:35	JKL
Ethylbenzene	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 17:35	JKL
m&p-Xylene	ND	ug/L	2	EPA 8260B	02/01/12	02/01/12 17:35	JKL
o-Xylene	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 17:35	JKL

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Jarrettsville, MD 21084

Date Sampled: 01/28/12 10:20
Date Received: 01/31/12 9:40
Date Issued: 02/07/12

Project: High's # 130
Site Location: Madonna, MD
Project Number: 4101 Norrisville Road

SDG Number: 12013104

Field Sample ID: MW-2 **Matrix: Water** **Lab ID: 12013104-02**

	Result	Unit	LLQ	Method	Prepared	Analyzed	Init.
Target Compound List - VOLATILES							
Styrene	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 17:35	JKL
Bromoform	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 17:35	JKL
Isopropylbenzene	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 17:35	JKL
1,1,2,2-Tetrachloroethane	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 17:35	JKL
1,3-Dichlorobenzene	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 17:35	JKL
1,4-Dichlorobenzene	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 17:35	JKL
1,2-Dichlorobenzene	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 17:35	JKL
1,2-Dibromo-3-chloropropane	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 17:35	JKL
1,2,4-Trichlorobenzene	ND	ug/L	2	EPA 8260B	02/01/12	02/01/12 17:35	JKL
Naphthalene	ND	ug/L	10	EPA 8260B	02/01/12	02/01/12 17:35	JKL
Ethyl t-butyl ether (ETBE)	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 17:35	JKL
tert-Butanol (TBA)	ND	ug/L	25	EPA 8260B	02/01/12	02/01/12 17:35	JKL
Diisopropyl ether (DIPE)	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 17:35	JKL
tert-Amyl methyl ether (TAME)	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 17:35	JKL
tert-Amyl alcohol (TAA)	ND	ug/L	25	EPA 8260B	02/01/12	02/01/12 17:35	JKL
tert-Amyl ethyl ether (TAEE)	ND	ug/L	1	EPA 8260B	02/01/12	02/01/12 17:35	JKL
Total Petroleum Hydrocarbons - (C10-C28) DRO							
Diesel Range Organics	ND	mg/L	0.22	EPA 8015C	02/06/12	02/07/12 14:51	AC
Total Petroleum Hydrocarbons - (C6-C10) GRO							
Gasoline Range Organics	ND	mg/L	0.2	EPA 8015C	01/31/12	02/01/12 12:37	CBS

Notes/Qualifiers:
L.L.Q- Lowest Level of Quantitation
ND - Not Detected at a concentration greater than or equal to the LLQ.

Approved by: Matt Cohen
QC Chemist

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Jarrettsville, MD 21084

Date Sampled: 01/28/12 9:40
Date Received: 01/31/12 9:40
Date Issued: 02/07/12

Project: High's # 130
Site Location: Madonna, MD
Project Number: 4101 Norrisville Road

SDG Number: 12013104

Field Sample ID: MW-3 **Matrix: Water** **Lab ID: 12013104-03**

	Result	Unit	LLQ	Method	Prepared	Analyzed	Init.
Target Compound List - VOLATILES							
Dichlorodifluoromethane	ND	ug/L	1	EPA 8260B	02/02/12	02/02/12 7:52	JKL
Chloromethane	ND	ug/L	1	EPA 8260B	02/02/12	02/02/12 7:52	JKL
Vinyl chloride	ND	ug/L	1	EPA 8260B	02/02/12	02/02/12 7:52	JKL
Bromomethane	ND	ug/L	1	EPA 8260B	02/02/12	02/02/12 7:52	JKL
Chloroethane	ND	ug/L	1	EPA 8260B	02/02/12	02/02/12 7:52	JKL
Trichlorofluoromethane	ND	ug/L	5	EPA 8260B	02/02/12	02/02/12 7:52	JKL
1,1-Dichloroethene	ND	ug/L	1	EPA 8260B	02/02/12	02/02/12 7:52	JKL
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1	EPA 8260B	02/02/12	02/02/12 7:52	JKL
Acetone	ND	ug/L	15	EPA 8260B	02/02/12	02/02/12 7:52	JKL
Carbon disulfide	ND	ug/L	5	EPA 8260B	02/02/12	02/02/12 7:52	JKL
Methyl acetate	ND	ug/L	5	EPA 8260B	02/02/12	02/02/12 7:52	JKL
Methylene chloride	ND	ug/L	5	EPA 8260B	02/02/12	02/02/12 7:52	JKL
trans-1,2-Dichloroethene	ND	ug/L	1	EPA 8260B	02/02/12	02/02/12 7:52	JKL
Methyl t-butyl ether (MTBE)	3	ug/L	1	EPA 8260B	02/02/12	02/02/12 7:52	JKL
1,1-Dichloroethane	ND	ug/L	1	EPA 8260B	02/02/12	02/02/12 7:52	JKL
cis-1,2-Dichloroethene	ND	ug/L	1	EPA 8260B	02/02/12	02/02/12 7:52	JKL
2-Butanone (MEK)	ND	ug/L	5	EPA 8260B	02/02/12	02/02/12 7:52	JKL
Chloroform	ND	ug/L	1	EPA 8260B	02/02/12	02/02/12 7:52	JKL
1,1,1-Trichloroethane	ND	ug/L	1	EPA 8260B	02/02/12	02/02/12 7:52	JKL
Cyclohexane	ND	ug/L	5	EPA 8260B	02/02/12	02/02/12 7:52	JKL
Carbon tetrachloride	ND	ug/L	1	EPA 8260B	02/02/12	02/02/12 7:52	JKL
Benzene	ND	ug/L	1	EPA 8260B	02/02/12	02/02/12 7:52	JKL
1,2-Dichloroethane	ND	ug/L	1	EPA 8260B	02/02/12	02/02/12 7:52	JKL
Trichloroethene	ND	ug/L	1	EPA 8260B	02/02/12	02/02/12 7:52	JKL
Methylcyclohexane	ND	ug/L	5	EPA 8260B	02/02/12	02/02/12 7:52	JKL
1,2-Dichloropropane	ND	ug/L	1	EPA 8260B	02/02/12	02/02/12 7:52	JKL
Bromodichloromethane	ND	ug/L	1	EPA 8260B	02/02/12	02/02/12 7:52	JKL
cis-1,3-Dichloropropene	ND	ug/L	1	EPA 8260B	02/02/12	02/02/12 7:52	JKL
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5	EPA 8260B	02/02/12	02/02/12 7:52	JKL
Toluene	ND	ug/L	1	EPA 8260B	02/02/12	02/02/12 7:52	JKL
trans-1,3-Dichloropropene	ND	ug/L	1	EPA 8260B	02/02/12	02/02/12 7:52	JKL
1,1,2-Trichloroethane	ND	ug/L	1	EPA 8260B	02/02/12	02/02/12 7:52	JKL
Tetrachloroethene	ND	ug/L	1	EPA 8260B	02/02/12	02/02/12 7:52	JKL
2-Hexanone (MBK)	ND	ug/L	5	EPA 8260B	02/02/12	02/02/12 7:52	JKL
Dibromochloromethane	ND	ug/L	1	EPA 8260B	02/02/12	02/02/12 7:52	JKL
1,2-Dibromoethane	ND	ug/L	1	EPA 8260B	02/02/12	02/02/12 7:52	JKL
Chlorobenzene	ND	ug/L	1	EPA 8260B	02/02/12	02/02/12 7:52	JKL
Ethylbenzene	ND	ug/L	1	EPA 8260B	02/02/12	02/02/12 7:52	JKL
m&p-Xylene	ND	ug/L	2	EPA 8260B	02/02/12	02/02/12 7:52	JKL
o-Xylene	ND	ug/L	1	EPA 8260B	02/02/12	02/02/12 7:52	JKL

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Jarrettsville, MD 21084

Date Sampled: 01/28/12 9:40
Date Received: 01/31/12 9:40
Date Issued: 02/07/12

Project: High's # 130
Site Location: Madonna, MD
Project Number: 4101 Norrisville Road

SDG Number: 12013104

Field Sample ID: MW-3 **Matrix: Water** **Lab ID: 12013104-03**

	Result	Unit	LLQ	Method	Prepared	Analyzed	Init.
Target Compound List - VOLATILES							
Styrene	ND	ug/L	1	EPA 8260B	02/02/12	02/02/12 7:52	JKL
Bromoform	ND	ug/L	1	EPA 8260B	02/02/12	02/02/12 7:52	JKL
Isopropylbenzene	ND	ug/L	1	EPA 8260B	02/02/12	02/02/12 7:52	JKL
1,1,2,2-Tetrachloroethane	ND	ug/L	1	EPA 8260B	02/02/12	02/02/12 7:52	JKL
1,3-Dichlorobenzene	ND	ug/L	1	EPA 8260B	02/02/12	02/02/12 7:52	JKL
1,4-Dichlorobenzene	ND	ug/L	1	EPA 8260B	02/02/12	02/02/12 7:52	JKL
1,2-Dichlorobenzene	ND	ug/L	1	EPA 8260B	02/02/12	02/02/12 7:52	JKL
1,2-Dibromo-3-chloropropane	ND	ug/L	1	EPA 8260B	02/02/12	02/02/12 7:52	JKL
1,2,4-Trichlorobenzene	ND	ug/L	2	EPA 8260B	02/02/12	02/02/12 7:52	JKL
Naphthalene	ND	ug/L	10	EPA 8260B	02/02/12	02/02/12 7:52	JKL
Ethyl t-butyl ether (ETBE)	ND	ug/L	1	EPA 8260B	02/02/12	02/02/12 7:52	JKL
tert-Butanol (TBA)	ND	ug/L	25	EPA 8260B	02/02/12	02/02/12 7:52	JKL
Diisopropyl ether (DIPE)	ND	ug/L	1	EPA 8260B	02/02/12	02/02/12 7:52	JKL
tert-Amyl methyl ether (TAME)	ND	ug/L	1	EPA 8260B	02/02/12	02/02/12 7:52	JKL
tert-Amyl alcohol (TAA)	ND	ug/L	25	EPA 8260B	02/02/12	02/02/12 7:52	JKL
tert-Amyl ethyl ether (TAEE)	ND	ug/L	1	EPA 8260B	02/02/12	02/02/12 7:52	JKL
Total Petroleum Hydrocarbons - (C10-C28) DRO							
Diesel Range Organics	**0.23**	mg/L	0.22	EPA 8015C	02/06/12	02/07/12 14:51	AC
Total Petroleum Hydrocarbons - (C6-C10) GRO							
Gasoline Range Organics	ND	mg/L	0.2	EPA 8015C	01/31/12	02/01/12 13:01	CBS

Notes/Qualifiers:
LLQ- Lowest Level of Quantitation
ND - Not Detected at a concentration greater than or equal to the LLQ.

Approved by: Matt Oakes
QC Chemist

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Chain of Custody Record

Customer:	Nuttall Enterprises
Contact/Report to:	Art Shellhouse
Phone:	410 557 7583
Fax:	410 557 8804

E-mail address:	
Project Name:	Highs # 130
Project Number:	4101 Nanticoke Rd
Location:	Mardela, MD

SDG Number:	12013104

Sampled by:	Steve Saul
PO Number:	

Analysis Requested

Lab Number	Field Sample ID	Date Sampled	Time Sampled	No. of Bottles	Matrix	Preservative	VOCs 8260	TPH GRO 8015	TPH DRO 8015	Sampling Remarks/ Comments
	MW-1	1-28-12	11:10	4	water		✓	✓	✓	
	MW-2	1-28-12	10:20	4	water		✓	✓	✓	
	MW-3	1-28-12	9:40	4	water		✓	✓	✓	

Relinquished by:		Date/Time:	1-31-12 / 9:40
Received by:		Date/Time:	1/31/12 0940
Relinquished by:		Date/Time:	
Received by:		Date/Time:	
Relinquished by:		Date/Time:	
Received by:		Date/Time:	

Deliverables: I II III CLP EDD

Custody Seals: Sample Cooler Delivered by client

Receipt Temperature: Temp: On Ice

Turnaround Time: STD Next Day 2-Day Other

Comments/Special Instructions:

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Certificate of Analysis

Nutshell Enterprises
4059 Norrisville Road
Jarrettsville, MD 21084

Date Sampled: 01/30/12 5:20
Date Received: 01/31/12 9:40
Date Issued: 02/07/12

Project: High's # 130
Site Location: Madonna, MD
Project Number: 4101 Norrisville Road

SDG Number: 12013101

Field Sample ID: Potable Well **Matrix: Drinking Water** **Lab ID: 12013101-01**

	Result	Unit	LLQ	Method	Prepared	Analyzed	Init.
Volatile Organic Compounds							
Benzene	ND	ug/L	0.5	EPA 524.2	01/31/12	01/31/12 14:16	JKL
Bromobenzene	ND	ug/L	0.5	EPA 524.2	01/31/12	01/31/12 14:16	JKL
Bromochloromethane	ND	ug/L	0.5	EPA 524.2	01/31/12	01/31/12 14:16	JKL
Bromodichloromethane	ND	ug/L	0.5	EPA 524.2	01/31/12	01/31/12 14:16	JKL
Bromoform	ND	ug/L	0.5	EPA 524.2	01/31/12	01/31/12 14:16	JKL
Bromomethane	ND	ug/L	0.5	EPA 524.2	01/31/12	01/31/12 14:16	JKL
n-Butylbenzene	ND	ug/L	0.5	EPA 524.2	01/31/12	01/31/12 14:16	JKL
sec-Butylbenzene	ND	ug/L	0.5	EPA 524.2	01/31/12	01/31/12 14:16	JKL
tert-Butylbenzene	ND	ug/L	0.5	EPA 524.2	01/31/12	01/31/12 14:16	JKL
Carbon tetrachloride	ND	ug/L	0.5	EPA 524.2	01/31/12	01/31/12 14:16	JKL
Chlorobenzene	ND	ug/L	0.5	EPA 524.2	01/31/12	01/31/12 14:16	JKL
Chloroethane	ND	ug/L	0.5	EPA 524.2	01/31/12	01/31/12 14:16	JKL
Chloroform	ND	ug/L	0.5	EPA 524.2	01/31/12	01/31/12 14:16	JKL
Chloromethane	ND	ug/L	0.5	EPA 524.2	01/31/12	01/31/12 14:16	JKL
2-Chlorotoluene	ND	ug/L	0.5	EPA 524.2	01/31/12	01/31/12 14:16	JKL
4-Chlorotoluene	ND	ug/L	0.5	EPA 524.2	01/31/12	01/31/12 14:16	JKL
Dibromochloromethane	ND	ug/L	0.5	EPA 524.2	01/31/12	01/31/12 14:16	JKL
1,2-Dibromo-3-chloropropane	ND	ug/L	0.5	EPA 524.2	01/31/12	01/31/12 14:16	JKL
1,2-Dibromoethane	ND	ug/L	0.5	EPA 524.2	01/31/12	01/31/12 14:16	JKL
Dibromomethane	ND	ug/L	0.5	EPA 524.2	01/31/12	01/31/12 14:16	JKL
1,2-Dichlorobenzene	ND	ug/L	0.5	EPA 524.2	01/31/12	01/31/12 14:16	JKL
1,3-Dichlorobenzene	ND	ug/L	0.5	EPA 524.2	01/31/12	01/31/12 14:16	JKL
1,4-Dichlorobenzene	ND	ug/L	0.5	EPA 524.2	01/31/12	01/31/12 14:16	JKL
Dichlorodifluoromethane	ND	ug/L	0.5	EPA 524.2	01/31/12	01/31/12 14:16	JKL
1,1-Dichloroethane	ND	ug/L	0.5	EPA 524.2	01/31/12	01/31/12 14:16	JKL
1,2-Dichloroethane	ND	ug/L	0.5	EPA 524.2	01/31/12	01/31/12 14:16	JKL
1,1-Dichloroethene	ND	ug/L	0.5	EPA 524.2	01/31/12	01/31/12 14:16	JKL
cis-1,2-Dichloroethene	ND	ug/L	0.5	EPA 524.2	01/31/12	01/31/12 14:16	JKL
trans-1,2-Dichloroethene	ND	ug/L	0.5	EPA 524.2	01/31/12	01/31/12 14:16	JKL
1,2-Dichloropropane	ND	ug/L	0.5	EPA 524.2	01/31/12	01/31/12 14:16	JKL
1,3-Dichloropropane	ND	ug/L	0.5	EPA 524.2	01/31/12	01/31/12 14:16	JKL
2,2-Dichloropropane	ND	ug/L	0.5	EPA 524.2	01/31/12	01/31/12 14:16	JKL
1,1-Dichloropropene	ND	ug/L	0.5	EPA 524.2	01/31/12	01/31/12 14:16	JKL
cis-1,3-Dichloropropene	ND	ug/L	0.5	EPA 524.2	01/31/12	01/31/12 14:16	JKL
trans-1,3-Dichloropropene	ND	ug/L	0.5	EPA 524.2	01/31/12	01/31/12 14:16	JKL
Ethylbenzene	ND	ug/L	0.5	EPA 524.2	01/31/12	01/31/12 14:16	JKL
Isopropylbenzene	ND	ug/L	0.5	EPA 524.2	01/31/12	01/31/12 14:16	JKL
p-Isopropyltoluene	ND	ug/L	0.5	EPA 524.2	01/31/12	01/31/12 14:16	JKL
Methylene chloride	ND	ug/L	0.5	EPA 524.2	01/31/12	01/31/12 14:16	JKL
Methyl t-butyl ether (MTBE)	ND	ug/L	0.2	EPA 524.2	01/31/12	01/31/12 14:16	JKL

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Jarrettsville, MD 21084

Date Sampled: 01/30/12 5:20
Date Received: 01/31/12 9:40
Date Issued: 02/07/12

Project: High's # 130
Site Location: Madonna, MD
Project Number: 4101 Norrisville Road

SDG Number: 12013101

Field Sample ID: Potable Well **Matrix: Drinking Water** **Lab ID: 12013101-01**

	Result	Unit	LLQ	Method	Prepared	Analyzed	Init.
Volatile Organic Compounds							
Naphthalene	ND	ug/L	0.5	EPA 524.2	01/31/12	01/31/12 14:16	JKL
n-Propylbenzene	ND	ug/L	0.5	EPA 524.2	01/31/12	01/31/12 14:16	JKL
Styrene	ND	ug/L	0.5	EPA 524.2	01/31/12	01/31/12 14:16	JKL
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	EPA 524.2	01/31/12	01/31/12 14:16	JKL
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	EPA 524.2	01/31/12	01/31/12 14:16	JKL
Tetrachloroethene	ND	ug/L	0.5	EPA 524.2	01/31/12	01/31/12 14:16	JKL
Toluene	ND	ug/L	0.5	EPA 524.2	01/31/12	01/31/12 14:16	JKL
1,2,3-Trichlorobenzene	ND	ug/L	0.5	EPA 524.2	01/31/12	01/31/12 14:16	JKL
1,2,4-Trichlorobenzene	ND	ug/L	0.5	EPA 524.2	01/31/12	01/31/12 14:16	JKL
1,1,1-Trichloroethane	ND	ug/L	0.5	EPA 524.2	01/31/12	01/31/12 14:16	JKL
1,1,2-Trichloroethane	ND	ug/L	0.5	EPA 524.2	01/31/12	01/31/12 14:16	JKL
Trichloroethene	ND	ug/L	0.5	EPA 524.2	01/31/12	01/31/12 14:16	JKL
Trichlorofluoromethane	ND	ug/L	0.5	EPA 524.2	01/31/12	01/31/12 14:16	JKL
1,2,3-Trichloropropane	ND	ug/L	0.5	EPA 524.2	01/31/12	01/31/12 14:16	JKL
1,2,4-Trimethylbenzene	ND	ug/L	0.5	EPA 524.2	01/31/12	01/31/12 14:16	JKL
1,3,5-Trimethylbenzene	ND	ug/L	0.5	EPA 524.2	01/31/12	01/31/12 14:16	JKL
Vinyl chloride	ND	ug/L	0.5	EPA 524.2	01/31/12	01/31/12 14:16	JKL
m&p-Xylene	ND	ug/L	1	EPA 524.2	01/31/12	01/31/12 14:16	JKL
o-Xylene	ND	ug/L	0.5	EPA 524.2	01/31/12	01/31/12 14:16	JKL
tert-Butanol (TBA)	ND	ug/L	5	EPA 524.2	01/31/12	01/31/12 14:16	JKL
Ethyl t-butyl ether (ETBE)	ND	ug/L	0.5	EPA 524.2	01/31/12	01/31/12 14:16	JKL
Diisopropyl ether (DIPE)	ND	ug/L	0.5	EPA 524.2	01/31/12	01/31/12 14:16	JKL
tert-Amyl methyl ether (TAME)	ND	ug/L	0.5	EPA 524.2	01/31/12	01/31/12 14:16	JKL
tert-Amyl alcohol (TAA)	ND	ug/L	5	EPA 524.2	01/31/12	01/31/12 14:16	JKL
tert-Amyl ethyl ether (TAEE)	ND	ug/L	0.5	EPA 524.2	01/31/12	01/31/12 14:16	JKL

Notes/Qualifiers:
LLQ- Lowest Level of Quantitation
ND - Not Detected at a concentration greater than or equal to the LLQ.

Approved by: Matt Cohen
QC Chemist

8851 Orchard Tree Lane Towson, Maryland 21286
tel: 410.825.1151 fax: 410.825.2126 www.caslabs.net

CALIBER ANALYTICAL SERVICES

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Fax: 410.825.2126
www.caslabs.net

Chain of Custody Record

Customer:	Nutshell Enterprises
Contact/Report to:	Art Shellhouse
Phone:	410 557 7583
Fax:	410 557 8804

E-mail address:	
Project Name:	Hughs # 130
Project Number:	4101 Norrisville Rd
Location:	Madonna MD

SDG Number:	120130I
Sampled by:	Steve Seal
PO Number:	

Lab Number	Field Sample ID	Date Sampled	Time Sampled	No. of Bottles	Matrix	Preservative	Analysis Requested: VOCs 524.2	Sampling Remarks/ Comments
	Potable well	1-30-12	5:20	3	Drinking Water		✓	

Relinquished by:		Date/Time:	1-31-12 / 9:40
Received by:		Date/Time:	1/31/12 0940
Relinquished by:		Date/Time:	
Received by:		Date/Time:	
Relinquished by:		Date/Time:	
Received by:		Date/Time:	

Deliverables: I II III CLP EDD

Custody Seals: Sample Cooler — Delivered by client

Receipt Temperature: Temp: On Ice

Turnaround Time: STD Next Day 2-Day Other

Comments/Special Instructions: