Appendix E Results Letters – October through December 2012

MARYLAND DEPARTMENT OF THE ENVIRONMENT
1800 Washington Boulevard • Baltimore MD 21230
410-537-3000 • 1-800-633-6101 • www.mde.state.md.us

Martin O'Malley
Governor

Anthony G. Brown
Lieutenant Governor

Robert M. Summers, Ph.D.
Secretary

November 16, 2012

Mr. and Mrs. Roy and Christine Miller
3740 Blueberry Court
Monrovia MD 21770

RE: DRINKING WATER SAMPLING RESULTS
MDE-FCHD Groundwater Investigation
Green Valley / Monrovia
Frederick County, Maryland

Dear Mr. and Mrs. Miller:

On October 24, 2012, the Frederick County Health Department (FCHD) and the Maryland Department of the Environment's (MDE) contractor, sampled your drinking water supply. A first draw sample and a flushed sample were collected from your household plumbing system to investigate the potential presence and source of certain contaminants.

The full laboratory analytical reports are attached. The results related to lead, chromium, methyl tertiary butyl ether (MTBE), and pH are summarized below for reference. Note that all concentrations are presented as micrograms per liter (µg/L) (also known as parts per billion [ppb]). If the specific substance was not detected, the value is preceded by a "less than" symbol ("<"). Measurements of pH are unitless.

	First Draw	Flushed	MCL/Action Level/Recommended Range
Total Chromium	<1.0	<1.0	100
Total Lead	2.9	23.9	15
Chromate / Hexavalent Chromium	<0.020	<0.020	0.3
Dissolved Chromium	<1.0	<1.0	n/a
Dissolved Lead	<1.0	4.6	n/a
MTBE	<0.5	<0.5	20
pH	6.66	6.13	6.5 – 8.5

The federal and state maximum contaminant level (MCL) for total chromium is 100 µg/L. There is no separate federal or state MCL for hexavalent chromium or for dissolved chromium. The MDE uses 0.3 µg/L as an action level for hexavalent chromium, because that is MDE's conservative lifetime exposure health based standard. The federal and state action level that warrants additional investigation for total lead in public drinking water supplies is 15 µg/L, so the MDE follows this level

as an action level for private water supplies. There is no separate level for dissolved lead. For MTBE, the state action level that warrants corrective measures is 20 μg/L. There is no federal action level for MTBE. The federal MCL for trihalomethanes, which chloroform is a part of, is 80 μg/L. The US EPA recommended pH range for drinking water is 6.5 to 8.5.

Hexavalent chromium and lead are metals that can be hazardous to human health. Both metals can occur naturally in the environment or may be generated by human activity. Home water pumps, piping and faucets also are known to be potential sources of lead in drinking water. MTBE is a compound associated with petroleum products. Trihalomethanes, such as chloroform, occur when naturally-occurring organic and inorganic materials in the water react with the disinfectants, chlorine and chloramine.

The MDE and FCHD remind you to properly maintain any filtration equipment you use in your household and to follow all manufacturer recommendations. Additionally, both departments recommend that all private well users follow best practices to protect their wells and their family. This includes flushing your faucet for a few minutes prior to consuming the water, particularly after the water has not been used for an extended period of time.

For questions relating to private drinking water wells, please visit the MDE website at: http://bit.ly/MDEreswells, or call the Water Management Administration at 410-537-3780. If you would like more information about the ongoing petroleum cleanups in the Monrovia area at the former Green Valley Citgo or the Green Valley Garage, please visit the MDE website at: http://bit.ly/MDEoilcontrolremediation, or call the Oil Control Program at 410-537-3443. The FCHD also has information relating to well maintenance and contaminants on its website, including links to the EPA's information on lead and chromium, at: http://bit.ly/FCHDWaterQuality, or call them at 301-600-1717.

Sincerely,

Christopher Ralston, Administrator
Oil Control Program

CHR/nln

Enclosure

cc: Dr. Barbara Brookmyer, FCHD Health Officer
Mr. Jay Sakai, Director, MDE Water Management Administration
Mr. Horacio Tablada, Director, MDE Land Management Administration
Priscilla Carroll, Esq., Assistant Attorney General
Francesca Gibbs, Esq., Assistant Attorney General
M. Albert Figinski, Esq., Law Offices of Peter G. Angelos
Dwight Stone, Esq., Whiteford Taylor Preston

ENVIRO-CHEM LABORATORIES, INC.

47 Loveton Circle, Suite K • Sparks, Maryland 21152 410-472-1112

FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 08-Nov-12
REPORT NUMBER: 3486

LAB#- ECL026962-001 SAMPLE ID- 3740 BLueberry-First Draw
LOCATION- Total
DATE SAMPLED- 10/24/2012 TIME SAMPLED- 7:10 SAMPLER- L. Bennett
DATE RECEIVED- 10/24/2012 TIME RECEIVED- 10:40
DELIVERED BY- L. Bennett RECEIVED BY- SES

Page 1 of 8

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromium	EPA 200.8	10/30/2012 11:39	CHK	< 1.0	µg/L	1.0
Lead	EPA 200.8	10/30/2012 11:39	CHK	2.9	µg/L	1.0

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FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 08-Nov-12

REPORT NUMBER: 3486

LAB#- ECL026962-002 SAMPLE ID- 3740 BLueberry-First Draw
LOCATION- Dissolved
DATE SAMPLED- 10/24/2012 TIME SAMPLED- 7:10 SAMPLER- L. Bennett
DATE RECEIVED- 10/24/2012 TIME RECEIVED- 10:40
DELIVERED BY- L. Bennett RECEIVED BY- SES

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromate	EPA 218.7	10/28/2012 04:39	SES	< 0.020	ug/L Cr	0.020
Chromium	EPA 200.8	10/30/2012 11:39	CHK	< 1.0	µg/L	1.0
Lead	EPA 200.8	10/30/2012 11:39	CHK	< 1.0	µg/L	1.0

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ROUTE 40 WEST
BALTIMORE, MD 21228
410-747-8770
800-932-9047
FAX 410-788-8723

PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12102401
Chesapeake GeoSciences, Inc., Columbia, MD
November 7, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3740 Blueberry-First Draw **Date/Time Sampled: 10/24/2012 07:10** **PSS Sample ID: 12102401-001**
Matrix: WATER **Date/Time Received: 10/24/2012 11:20**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Benzene	ND	ug/L	0.50		1	10/28/12	10/28/12 22:51	1014
Bromodichloromethane	ND	ug/L	0.50		1	10/28/12	10/28/12 22:51	1014
Bromoform	ND	ug/L	5.0		1	10/28/12	10/28/12 22:51	1014
Bromomethane	ND	ug/L	0.50		1	10/28/12	10/28/12 22:51	1014
Carbon Tetrachloride	ND	ug/L	0.50		1	10/28/12	10/28/12 22:51	1014
Chlorobenzene	ND	ug/L	0.50		1	10/28/12	10/28/12 22:51	1014
Chloroethane	ND	ug/L	0.50		1	10/28/12	10/28/12 22:51	1014
Chloroform	**0.73**	ug/L	0.50		1	10/28/12	10/28/12 22:51	1014
Chloromethane	ND	ug/L	0.50		1	10/28/12	10/28/12 22:51	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0		1	10/28/12	10/28/12 22:51	1014
Dibromochloromethane	ND	ug/L	0.50		1	10/28/12	10/28/12 22:51	1014
1,2-Dibromoethane	ND	ug/L	0.50		1	10/28/12	10/28/12 22:51	1014
1,2-Dichlorobenzene	ND	ug/L	0.50		1	10/28/12	10/28/12 22:51	1014
1,3-Dichlorobenzene	ND	ug/L	0.50		1	10/28/12	10/28/12 22:51	1014
1,4-Dichlorobenzene	ND	ug/L	0.50		1	10/28/12	10/28/12 22:51	1014
Dichlorodifluoromethane	ND	ug/L	0.50		1	10/28/12	10/28/12 22:51	1014
1,1-Dichloroethane	ND	ug/L	0.50		1	10/28/12	10/28/12 22:51	1014
1,2-Dichloroethane	ND	ug/L	0.50		1	10/28/12	10/28/12 22:51	1014
cis-1,2-Dichloroethene	ND	ug/L	0.50		1	10/28/12	10/28/12 22:51	1014
trans-1,2-Dichloroethene	ND	ug/L	0.50		1	10/28/12	10/28/12 22:51	1014
1,1-Dichloroethene	ND	ug/L	0.50		1	10/28/12	10/28/12 22:51	1014
1,2-Dichloropropane	ND	ug/L	0.50		1	10/28/12	10/28/12 22:51	1014
Ethylbenzene	ND	ug/L	0.50		1	10/28/12	10/28/12 22:51	1014
Isopropylbenzene	ND	ug/L	0.50		1	10/28/12	10/28/12 22:51	1014
Methyl-t-butyl ether	ND	ug/L	0.50		1	10/28/12	10/28/12 22:51	1014
Naphthalene	ND	ug/L	0.50		1	10/28/12	10/28/12 22:51	1014
Styrene	ND	ug/L	0.50		1	10/28/12	10/28/12 22:51	1014
Diisopropyl ether	ND	ug/L	5.0		1	10/28/12	10/28/12 22:51	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50		1	10/28/12	10/28/12 22:51	1014
Tetrachloroethylene	ND	ug/L	0.50		1	10/28/12	10/28/12 22:51	1014

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FAX 410-788-8723

PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12102401
Chesapeake GeoSciences, Inc., Columbia, MD
November 7, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3740 Blueberry-First Draw **Date/Time Sampled: 10/24/2012 07:10** **PSS Sample ID: 12102401-001**
Matrix: WATER **Date/Time Received: 10/24/2012 11:20**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Toluene	ND	ug/L	0.50		1	10/28/12	10/28/12 22:51	1014
1,2,4-Trichlorobenzene	ND	ug/L	0.50		1	10/28/12	10/28/12 22:51	1014
1,1,1-Trichloroethane	ND	ug/L	0.50		1	10/28/12	10/28/12 22:51	1014
1,1,2-Trichloroethane	ND	ug/L	0.50		1	10/28/12	10/28/12 22:51	1014
Trichloroethene	ND	ug/L	0.50		1	10/28/12	10/28/12 22:51	1014
Vinyl Chloride	ND	ug/L	0.50		1	10/28/12	10/28/12 22:51	1014
o-Xylene	ND	ug/L	0.50		1	10/28/12	10/28/12 22:51	1014
m,p-Xylenes	ND	ug/L	1.0		1	10/28/12	10/28/12 22:51	1014
tert-Butyl ethyl ether	ND	ug/L	5.0		1	10/28/12	10/28/12 22:51	1014
tert-Butyl alcohol	ND	ug/L	20		1	10/28/12	10/28/12 22:51	1014
tert-Amyl methyl ether	ND	ug/L	5.0		1	10/28/12	10/28/12 22:51	1014

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LABORATORIES, INC.

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FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 08-Nov-12
REPORT NUMBER: 3486

LAB#- ECL026962-003 SAMPLE ID- 3740 BLueberry-Flushed
LOCATION- Total
DATE SAMPLED- 10/24/2012 TIME SAMPLED- 7:55 SAMPLER- L. Bennett
DATE RECEIVED- 10/24/2012 TIME RECEIVED- 10:40
DELIVERED BY- L. Bennett RECEIVED BY- SES

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromium	EPA 200.8	10/30/2012 11:39	CHK	< 1.0	µg/L	1.0
Lead	EPA 200.8	10/30/2012 11:39	CHK	23.9	µg/L	1.0

ENVIRO-CHEM LABORATORIES, INC.

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FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 08-Nov-12

REPORT NUMBER: 3486

LAB#- ECL026962-004 SAMPLE ID- 3740 BLueberry-Flushed
LOCATION- Dissolved
DATE SAMPLED- 10/24/2012 TIME SAMPLED- 7:55 SAMPLER- L. Bennett
DATE RECEIVED- 10/24/2012 TIME RECEIVED- 10:40
DELIVERED BY- L. Bennett RECEIVED BY- SES

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromate	EPA 218.7	10/28/2012 04:58	SES	< 0.020	ug/L Cr	0.020
Chromium	EPA 200.8	10/30/2012 11:39	CHK	< 1.0	μg/L	1.0
Lead	EPA 200.8	10/30/2012 11:39	CHK	4.6	μg/L	1.0

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PHASE SEPARATION SCIENCE, INC.

1989 - 20 YEARS - 2009 ANALYTICAL CHEMISTRY ENVIRONMENTAL SCIENCE EXCEEDING THE STANDARD

CERTIFICATE OF ANALYSIS

No: 12102401
Chesapeake GeoSciences, Inc., Columbia, MD
November 7, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3740 Blueberry-Flushed **Date/Time Sampled: 10/24/2012 07:55** **PSS Sample ID: 12102401-002**
Matrix: WATER **Date/Time Received: 10/24/2012 11:20**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Benzene	ND	ug/L	0.50		1	10/28/12	10/28/12 23:34	1014
Bromodichloromethane	ND	ug/L	0.50		1	10/28/12	10/28/12 23:34	1014
Bromoform	ND	ug/L	5.0		1	10/28/12	10/28/12 23:34	1014
Bromomethane	ND	ug/L	0.50		1	10/28/12	10/28/12 23:34	1014
Carbon Tetrachloride	ND	ug/L	0.50		1	10/28/12	10/28/12 23:34	1014
Chlorobenzene	ND	ug/L	0.50		1	10/28/12	10/28/12 23:34	1014
Chloroethane	ND	ug/L	0.50		1	10/28/12	10/28/12 23:34	1014
Chloroform	**0.60**	ug/L	0.50		1	10/28/12	10/28/12 23:34	1014
Chloromethane	ND	ug/L	0.50		1	10/28/12	10/28/12 23:34	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0		1	10/28/12	10/28/12 23:34	1014
Dibromochloromethane	ND	ug/L	0.50		1	10/28/12	10/28/12 23:34	1014
1,2-Dibromoethane	ND	ug/L	0.50		1	10/28/12	10/28/12 23:34	1014
1,2-Dichlorobenzene	ND	ug/L	0.50		1	10/28/12	10/28/12 23:34	1014
1,3-Dichlorobenzene	ND	ug/L	0.50		1	10/28/12	10/28/12 23:34	1014
1,4-Dichlorobenzene	ND	ug/L	0.50		1	10/28/12	10/28/12 23:34	1014
Dichlorodifluoromethane	ND	ug/L	0.50		1	10/28/12	10/28/12 23:34	1014
1,1-Dichloroethane	ND	ug/L	0.50		1	10/28/12	10/28/12 23:34	1014
1,2-Dichloroethane	ND	ug/L	0.50		1	10/28/12	10/28/12 23:34	1014
cis-1,2-Dichloroethene	ND	ug/L	0.50		1	10/28/12	10/28/12 23:34	1014
trans-1,2-Dichloroethene	ND	ug/L	0.50		1	10/28/12	10/28/12 23:34	1014
1,1-Dichloroethene	ND	ug/L	0.50		1	10/28/12	10/28/12 23:34	1014
1,2-Dichloropropane	ND	ug/L	0.50		1	10/28/12	10/28/12 23:34	1014
Ethylbenzene	ND	ug/L	0.50		1	10/28/12	10/28/12 23:34	1014
Isopropylbenzene	ND	ug/L	0.50		1	10/28/12	10/28/12 23:34	1014
Methyl-t-butyl ether	ND	ug/L	0.50		1	10/28/12	10/28/12 23:34	1014
Naphthalene	ND	ug/L	0.50		1	10/28/12	10/28/12 23:34	1014
Styrene	ND	ug/L	0.50		1	10/28/12	10/28/12 23:34	1014
Diisopropyl ether	ND	ug/L	5.0		1	10/28/12	10/28/12 23:34	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50		1	10/28/12	10/28/12 23:34	1014
Tetrachloroethylene	ND	ug/L	0.50		1	10/28/12	10/28/12 23:34	1014

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12102401
Chesapeake GeoSciences, Inc., Columbia, MD
November 7, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3740 Blueberry-Flushed **Date/Time Sampled: 10/24/2012 07:55** **PSS Sample ID: 12102401-002**
Matrix: WATER **Date/Time Received: 10/24/2012 11:20**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Toluene	ND	ug/L	0.50		1	10/28/12	10/28/12 23:34	1014
1,2,4-Trichlorobenzene	ND	ug/L	0.50		1	10/28/12	10/28/12 23:34	1014
1,1,1-Trichloroethane	ND	ug/L	0.50		1	10/28/12	10/28/12 23:34	1014
1,1,2-Trichloroethane	ND	ug/L	0.50		1	10/28/12	10/28/12 23:34	1014
Trichloroethene	ND	ug/L	0.50		1	10/28/12	10/28/12 23:34	1014
Vinyl Chloride	ND	ug/L	0.50		1	10/28/12	10/28/12 23:34	1014
o-Xylene	ND	ug/L	0.50		1	10/28/12	10/28/12 23:34	1014
m,p-Xylenes	ND	ug/L	1.0		1	10/28/12	10/28/12 23:34	1014
tert-Butyl ethyl ether	ND	ug/L	5.0		1	10/28/12	10/28/12 23:34	1014
tert-Butyl alcohol	ND	ug/L	20		1	10/28/12	10/28/12 23:34	1014
tert-Amyl methyl ether	ND	ug/L	5.0		1	10/28/12	10/28/12 23:34	1014

MARYLAND DEPARTMENT OF THE ENVIRONMENT

MDE

1800 Washington Boulevard • Baltimore MD 21230
410-537-3000 • 1-800-633-6101 • www.mde.state.md.us

December 7, 2012

Mr. Rodney King
3806 Greenridge Drive
Monrovia MD 21770-8928

RE: DRINKING WATER SAMPLING RESULTS
MDE-FCHD Groundwater Investigation
Green Valley / Monrovia
Frederick County, Maryland

Dear Mr. King:

On November 6, 2012, the Frederick County Health Department (FCHD) and the Maryland Department of the Environment's (MDE) contractor, sampled your drinking water supply. A first draw sample and a flushed sample were collected from your household plumbing system to investigate the potential presence and source of certain contaminants.

The full laboratory analytical reports are attached. The results related to lead, chromium, methyl tertiary-butyl ether (MTBE), and pH are summarized below for reference. Note that all concentrations are presented as micrograms per liter (µg/L) (also known as parts per billion [ppb]). If the specific substance was not detected, the value is preceded by a "less than" symbol ("<"). Measurements of pH are unitless.

	First Draw	Flushed	MCL/Action Level/Recommended Range
Total Chromium	<1.0	<1.0	100
Total Lead	2.3	<1.0	15
Chromate / Hexavalent Chromium	<0.020	0.073	0.3
Dissolved Chromium	<1.0	<1.0	n/a
Dissolved Lead	1.7	<1.0	n/a
MTBE	<0.5	<0.5	20
pH	6.52	6.61	6.5 – 8.5

The federal and state maximum contaminant level (MCL) for total chromium is 100 µg/L. There is no separate federal or state MCL for hexavalent chromium or for dissolved chromium. The MDE uses 0.3 µg/L as an action level for hexavalent chromium, because that is MDE's conservative lifetime exposure health based standard. The federal and state action level that warrants additional investigation for total lead in public drinking water supplies is 15 µg/L, so the MDE follows this level

as an action level for private water supplies. There is no separate level for dissolved lead. For MTBE, the state action level that warrants corrective measures is 20 μg/L. There is no federal action level for MTBE. The US EPA recommended pH range for drinking water is 6.5 to 8.5.

Hexavalent chromium and lead are metals that can be hazardous to human health. Both metals can occur naturally in the environment or may be generated by human activity. Home water pumps, piping, and faucets also are known to be potential sources of lead in drinking water. MTBE is a compound associated with petroleum products.

The MDE and FCHD remind you to properly maintain any filtration equipment you use in your household and to follow all manufacturer recommendations. Additionally, both departments recommend that all private well users follow best practices to protect their wells and their family. This includes flushing your faucet for a few minutes prior to consuming the water, particularly after the water has not been used for an extended period of time.

For questions relating to private drinking water wells, please visit the MDE website at: http://bit.ly/MDEreswells, or call the Water Management Administration at 410-537-3780. If you would like more information about the ongoing petroleum cleanups in the Monrovia area at the former Green Valley Citgo or the Green Valley Garage, please visit the MDE website at: http://bit.ly/MDEoilcontrolremediation, or call the Oil Control Program at 410-537-3443. The FCHD also has information relating to well maintenance and contaminants on its website, including links to the EPA's information on lead and chromium, at: http://bit.ly/FCHDWaterQuality, or call them at 301-600-1717.

Sincerely,

Christopher Ralston, Administrator
Oil Control Program

CHR/nln

Enclosure

cc: Dr. Barbara Brookmyer, FCHD Health Officer
Mr. Jay Sakai, Director, MDE Water Management Administration
Mr. Horacio Tablada, Director, MDE Land Management Administration
Priscilla N. Carroll, Esq., Assistant Attorney General
Francesca Gibbs, Esq., Assistant Attorney General
M. Albert Figinski, Esq., Law Offices of Peter G. Angelos
Dwight Stone, Esq., Whiteford Taylor Preston

ENVIRO-CHEM LABORATORIES, INC.

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FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 20-Nov-12
REPORT NUMBER: 3639

LAB#- ECL027052-001 SAMPLE ID- 3806 Greenridge - First Draw
LOCATION- Total
DATE SAMPLED- 11/6/2012 TIME SAMPLED- 5:05 SAMPLER- M. Emery
DATE RECEIVED- 11/6/2012 TIME RECEIVED- 9:00
DELIVERED BY- M. Emery RECEIVED BY- SES

Page 1 of 8

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromium	EPA 200.8	11/13/2012 10:49	MAP	< 1.0	µg/L	1.0
Lead	EPA 200.8	11/13/2012 10:49	MAP	2.3	µg/L	1.0

ENVIRO-CHEM LABORATORIES, INC.

47 Loveton Circle, Suite K • Sparks, Maryland 21152 410-472-1112

FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 20-Nov-12
REPORT NUMBER: 3639

LAB#- ECL027052-002 SAMPLE ID- 3806 Greenridge - First Draw
LOCATION- Dissolved
DATE SAMPLED- 11/6/2012 TIME SAMPLED- 5:05 SAMPLER- M. Emery
DATE RECEIVED- 11/6/2012 TIME RECEIVED- 9:00
DELIVERED BY- M. Emery RECEIVED BY- SES

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromate	EPA 218.7	11/13/2012 22:28	SES	< 0.020	ug/L Cr	0.020
Chromium	EPA 200.8	11/13/2012 10:49	MAP	< 1.0	µg/L	1.0
Lead	EPA 200.8	11/13/2012 10:49	MAP	1.7	µg/L	1.0

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12110602
Chesapeake GeoSciences, Inc., Columbia, MD
November 20, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3806 Greenridge-First Draw **Date/Time Sampled: 11/06/2012 05:05** **PSS Sample ID: 12110602-001**
Matrix: WATER **Date/Time Received: 11/06/2012 09:45**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Benzene	ND	ug/L	0.50		1	11/12/12	11/13/12 08:17	1014
Bromodichloromethane	ND	ug/L	0.50		1	11/12/12	11/13/12 08:17	1014
Bromoform	ND	ug/L	5.0		1	11/12/12	11/13/12 08:17	1014
Bromomethane	ND	ug/L	0.50		1	11/12/12	11/13/12 08:17	1014
Carbon Tetrachloride	ND	ug/L	0.50		1	11/12/12	11/13/12 08:17	1014
Chlorobenzene	ND	ug/L	0.50		1	11/12/12	11/13/12 08:17	1014
Chloroethane	ND	ug/L	0.50		1	11/12/12	11/13/12 08:17	1014
Chloroform	ND	ug/L	0.50		1	11/12/12	11/13/12 08:17	1014
Chloromethane	ND	ug/L	0.50		1	11/12/12	11/13/12 08:17	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0		1	11/12/12	11/13/12 08:17	1014
Dibromochloromethane	ND	ug/L	0.50		1	11/12/12	11/13/12 08:17	1014
1,2-Dibromoethane	ND	ug/L	0.50		1	11/12/12	11/13/12 08:17	1014
1,2-Dichlorobenzene	ND	ug/L	0.50		1	11/12/12	11/13/12 08:17	1014
1,3-Dichlorobenzene	ND	ug/L	0.50		1	11/12/12	11/13/12 08:17	1014
1,4-Dichlorobenzene	ND	ug/L	0.50		1	11/12/12	11/13/12 08:17	1014
Dichlorodifluoromethane	ND	ug/L	0.50		1	11/12/12	11/13/12 08:17	1014
1,1-Dichloroethane	ND	ug/L	0.50		1	11/12/12	11/13/12 08:17	1014
1,2-Dichloroethane	ND	ug/L	0.50		1	11/12/12	11/13/12 08:17	1014
cis-1,2-Dichloroethene	ND	ug/L	0.50		1	11/12/12	11/13/12 08:17	1014
trans-1,2-Dichloroethene	ND	ug/L	0.50		1	11/12/12	11/13/12 08:17	1014
1,1-Dichloroethene	ND	ug/L	0.50		1	11/12/12	11/13/12 08:17	1014
1,2-Dichloropropane	ND	ug/L	0.50		1	11/12/12	11/13/12 08:17	1014
Ethylbenzene	ND	ug/L	0.50		1	11/12/12	11/13/12 08:17	1014
Isopropylbenzene	ND	ug/L	0.50		1	11/12/12	11/13/12 08:17	1014
Methyl-t-butyl ether	ND	ug/L	0.50		1	11/12/12	11/13/12 08:17	1014
Naphthalene	ND	ug/L	0.50		1	11/12/12	11/13/12 08:17	1014
Styrene	ND	ug/L	0.50		1	11/12/12	11/13/12 08:17	1014
Diisopropyl ether	ND	ug/L	5.0		1	11/12/12	11/13/12 08:17	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50		1	11/12/12	11/13/12 08:17	1014
Tetrachloroethylene	ND	ug/L	0.50		1	11/12/12	11/13/12 08:17	1014

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12110602
Chesapeake GeoSciences, Inc., Columbia, MD
November 20, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3806 Greenridge-First Draw **Date/Time Sampled: 11/06/2012 05:05** **PSS Sample ID: 12110602-001**
Matrix: WATER **Date/Time Received: 11/06/2012 09:45**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Toluene	ND	ug/L	0.50		1	11/12/12	11/13/12 08:17	1014
1,2,4-Trichlorobenzene	ND	ug/L	0.50		1	11/12/12	11/13/12 08:17	1014
1,1,1-Trichloroethane	ND	ug/L	0.50		1	11/12/12	11/13/12 08:17	1014
1,1,2-Trichloroethane	ND	ug/L	0.50		1	11/12/12	11/13/12 08:17	1014
Trichloroethene	ND	ug/L	0.50		1	11/12/12	11/13/12 08:17	1014
Vinyl Chloride	ND	ug/L	0.50		1	11/12/12	11/13/12 08:17	1014
o-Xylene	ND	ug/L	0.50		1	11/12/12	11/13/12 08:17	1014
m,p-Xylenes	ND	ug/L	1.0		1	11/12/12	11/13/12 08:17	1014
tert-Butyl ethyl ether	ND	ug/L	5.0		1	11/12/12	11/13/12 08:17	1014
tert-Butyl alcohol	ND	ug/L	20		1	11/12/12	11/13/12 08:17	1014
tert-Amyl methyl ether	ND	ug/L	5.0		1	11/12/12	11/13/12 08:17	1014

ENVIRO-CHEM LABORATORIES, INC.

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FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 20-Nov-12
REPORT NUMBER: 3639

LAB#- ECL027052-003 SAMPLE ID- 3806 Greenridge - Flushed
LOCATION- Total
DATE SAMPLED- 11/6/2012 TIME SAMPLED- 5:35 SAMPLER- M. Emery
DATE RECEIVED- 11/6/2012 TIME RECEIVED- 9:00
DELIVERED BY- M. Emery RECEIVED BY- SES

Page 3 of 8

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromium	EPA 200.8	11/13/2012 10:49	MAP	< 1.0	µg/L	1.0
Lead	EPA 200.8	11/13/2012 10:49	MAP	< 1.0	µg/L	1.0

ENVIRO-CHEM LABORATORIES, INC.

47 Loveton Circle, Suite K • Sparks, Maryland 21152 410-472-1112

FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 20-Nov-12

REPORT NUMBER: 3639

LAB#- ECL027052-004 SAMPLE ID- 3806 Greenridge - Flushed
LOCATION- Dissolved
DATE SAMPLED- 11/6/2012 TIME SAMPLED- 5:35 SAMPLER- M. Emery
DATE RECEIVED- 11/6/2012 TIME RECEIVED- 9:00
DELIVERED BY- M. Emery RECEIVED BY- SES

Page 4 of 8

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromate	EPA 218.7	11/13/2012 23:24	SES	0.073	ug/L Cr	0.020
Chromium	EPA 200.8	11/13/2012 10:49	MAP	< 1.0	µg/L	1.0
Lead	EPA 200.8	11/13/2012 10:49	MAP	< 1.0	µg/L	1.0

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS
No: 12110602
Chesapeake GeoSciences, Inc., Columbia, MD
November 20, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3806 Greenridge-Flushed **Date/Time Sampled: 11/06/2012 05:35** **PSS Sample ID: 12110602-002**
Matrix: WATER **Date/Time Received: 11/06/2012 09:45**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Benzene	ND	ug/L	0.50		1	11/12/12	11/13/12 08:58	1014
Bromodichloromethane	ND	ug/L	0.50		1	11/12/12	11/13/12 08:58	1014
Bromoform	ND	ug/L	5.0		1	11/12/12	11/13/12 08:58	1014
Bromomethane	ND	ug/L	0.50		1	11/12/12	11/13/12 08:58	1014
Carbon Tetrachloride	ND	ug/L	0.50		1	11/12/12	11/13/12 08:58	1014
Chlorobenzene	ND	ug/L	0.50		1	11/12/12	11/13/12 08:58	1014
Chloroethane	ND	ug/L	0.50		1	11/12/12	11/13/12 08:58	1014
Chloroform	ND	ug/L	0.50		1	11/12/12	11/13/12 08:58	1014
Chloromethane	ND	ug/L	0.50		1	11/12/12	11/13/12 08:58	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0		1	11/12/12	11/13/12 08:58	1014
Dibromochloromethane	ND	ug/L	0.50		1	11/12/12	11/13/12 08:58	1014
1,2-Dibromoethane	ND	ug/L	0.50		1	11/12/12	11/13/12 08:58	1014
1,2-Dichlorobenzene	ND	ug/L	0.50		1	11/12/12	11/13/12 08:58	1014
1,3-Dichlorobenzene	ND	ug/L	0.50		1	11/12/12	11/13/12 08:58	1014
1,4-Dichlorobenzene	ND	ug/L	0.50		1	11/12/12	11/13/12 08:58	1014
Dichlorodifluoromethane	ND	ug/L	0.50		1	11/12/12	11/13/12 08:58	1014
1,1-Dichloroethane	ND	ug/L	0.50		1	11/12/12	11/13/12 08:58	1014
1,2-Dichloroethane	ND	ug/L	0.50		1	11/12/12	11/13/12 08:58	1014
cis-1,2-Dichloroethene	ND	ug/L	0.50		1	11/12/12	11/13/12 08:58	1014
trans-1,2-Dichloroethene	ND	ug/L	0.50		1	11/12/12	11/13/12 08:58	1014
1,1-Dichloroethene	ND	ug/L	0.50		1	11/12/12	11/13/12 08:58	1014
1,2-Dichloropropane	ND	ug/L	0.50		1	11/12/12	11/13/12 08:58	1014
Ethylbenzene	ND	ug/L	0.50		1	11/12/12	11/13/12 08:58	1014
Isopropylbenzene	ND	ug/L	0.50		1	11/12/12	11/13/12 08:58	1014
Methyl-t-butyl ether	ND	ug/L	0.50		1	11/12/12	11/13/12 08:58	1014
Naphthalene	ND	ug/L	0.50		1	11/12/12	11/13/12 08:58	1014
Styrene	ND	ug/L	0.50		1	11/12/12	11/13/12 08:58	1014
Diisopropyl ether	ND	ug/L	5.0		1	11/12/12	11/13/12 08:58	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50		1	11/12/12	11/13/12 08:58	1014
Tetrachloroethylene	ND	ug/L	0.50		1	11/12/12	11/13/12 08:58	1014

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12110602
Chesapeake GeoSciences, Inc., Columbia, MD
November 20, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3806 Greenridge-Flushed **Date/Time Sampled: 11/06/2012 05:35** **PSS Sample ID: 12110602-002**
Matrix: WATER **Date/Time Received: 11/06/2012 09:45**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Toluene	ND	ug/L	0.50		1	11/12/12	11/13/12 08:58	1014
1,2,4-Trichlorobenzene	ND	ug/L	0.50		1	11/12/12	11/13/12 08:58	1014
1,1,1-Trichloroethane	ND	ug/L	0.50		1	11/12/12	11/13/12 08:58	1014
1,1,2-Trichloroethane	ND	ug/L	0.50		1	11/12/12	11/13/12 08:58	1014
Trichloroethene	ND	ug/L	0.50		1	11/12/12	11/13/12 08:58	1014
Vinyl Chloride	ND	ug/L	0.50		1	11/12/12	11/13/12 08:58	1014
o-Xylene	ND	ug/L	0.50		1	11/12/12	11/13/12 08:58	1014
m,p-Xylenes	ND	ug/L	1.0		1	11/12/12	11/13/12 08:58	1014
tert-Butyl ethyl ether	ND	ug/L	5.0		1	11/12/12	11/13/12 08:58	1014
tert-Butyl alcohol	ND	ug/L	20		1	11/12/12	11/13/12 08:58	1014
tert-Amyl methyl ether	ND	ug/L	5.0		1	11/12/12	11/13/12 08:58	1014

MARYLAND DEPARTMENT OF THE ENVIRONMENT
1800 Washington Boulevard • Baltimore MD 21230
MDE 410-537-3000 • 1-800-633-6101 • www.mde.state.md.us

Martin O'Malley
Governor

Anthony G. Brown
Lieutenant Governor

Robert M. Summers, Ph.D.
Secretary

December 21, 2012

Mr. Paul W. Schlessinger
3833Greenridge Drive
Monrovia MD 21770-8934

RE: DRINKING WATER SAMPLING RESULTS
MDE-FCHD Groundwater Investigation
Green Valley / Monrovia
Frederick County, Maryland

Dear Mr. Schlessinger:

On December 1, 2012, the Frederick County Health Department (FCHD) and the Maryland Department of the Environment's (MDE) contractor, sampled your drinking water supply. A first draw sample and a flushed sample were collected from your household plumbing system to investigate the potential presence and source of certain contaminants.

The full laboratory analytical reports are attached. The results related to lead, chromium, methyl tertiary-butyl ether (MTBE), and pH are summarized below for reference. Note that all concentrations are presented as micrograms per liter (μg/L) (also known as parts per billion [ppb]). If the specific substance was not detected, the value is preceded by a "less than" symbol ("<"). Measurements of pH are unitless.

	First Draw	Flushed	MCL/Action Level/Recommended Range
Total Chromium	<1.0	<1.0	100
Total Lead	5.1	39.3	15
Chromate / Hexavalent Chromium	<0.020	<0.020	0.3
Dissolved Chromium	<1.0	<1.0	n/a
Dissolved Lead	4.8	26.1	n/a
MTBE	<0.5	<0.5	20
pH	7.03	6.91	6.5 – 8.5

The federal and state maximum contaminant level (MCL) for total chromium is 100 μg/L. There is no separate federal or state MCL for hexavalent chromium or for dissolved chromium. The MDE uses 0.3 μg/L as an action level for hexavalent chromium, because that is MDE's conservative lifetime exposure health based standard. The federal and state action level that warrants additional investigation for total lead in public drinking water supplies is 15 μg/L, so the MDE follows this level

as an action level for private water supplies. There is no separate level for dissolved lead. For MTBE, the state action level that warrants corrective measures is 20 μg/L. There is no federal action level for MTBE. The US EPA recommended pH range for drinking water is 6.5 to 8.5.

Hexavalent chromium and lead are metals that can be hazardous to human health. Both metals can occur naturally in the environment or may be generated by human activity. Home water pumps, piping, and faucets also are known to be potential sources of lead in drinking water. MTBE is a compound associated with petroleum products.

The MDE and FCHD remind you to properly maintain any filtration equipment you use in your household and to follow all manufacturer recommendations. Additionally, both departments recommend that all private well users follow best practices to protect their wells and their family. This includes flushing your faucet for a few minutes prior to consuming the water, particularly after the water has not been used for an extended period of time.

For questions relating to private drinking water wells, please visit the MDE website at: http://bit.ly/MDEreswells, or call the Water Management Administration at 410-537-3780. If you would like more information about the ongoing petroleum cleanups in the Monrovia area at the former Green Valley Citgo or the Green Valley Garage, please visit the MDE website at: http://bit.ly/MDEoilcontrolremediation, or call the Oil Control Program at 410-537-3443. The FCHD also has information relating to well maintenance and contaminants on its website, including links to the EPA's information on lead and chromium, at: http://bit.ly/FCHDWaterQuality, or call them at 301-600-1717.

Sincerely,

Christopher Ralston, Administrator
Oil Control Program

CHR/nln

Enclosure

cc: Dr. Barbara Brookmyer, FCHD Health Officer
Mr. Jay Sakai, Director, MDE Water Management Administration
Mr. Horacio Tablada, Director, MDE Land Management Administration
Priscilla N. Carroll, Esq., Assistant Attorney General
Francesca Gibbs, Esq., Assistant Attorney General
M. Albert Figinski, Esq., Law Offices of Peter G. Angelos
Dwight Stone, Esq., Whiteford Taylor Preston

ENVIRO-CHEM LABORATORIES, INC.

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FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 18-Dec-12
REPORT NUMBER: 3937

LAB#- ECL027334-001 SAMPLE ID- 3833 Greenridge First Draw
LOCATION- Total
DATE SAMPLED- 12/1/2012 TIME SAMPLED- 7:15 SAMPLER- L. Bennett
DATE RECEIVED- 12/3/2012 TIME RECEIVED- 12:25
DELIVERED BY- M. Emery RECEIVED BY- VPS

Page 1 of 4

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromium	EPA 200.8	12/14/2012 11:06	CHK	< 1.0	µg/L	1.0
Lead	EPA 200.8	12/14/2012 11:06	CHK	5.1	µg/L	1.0

ENVIRO-CHEM LABORATORIES, INC.

47 Loveton Circle, Suite K • Sparks, Maryland 21152 410-472-1112

FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 18-Dec-12
REPORT NUMBER: 3937

LAB#- ECL027334-002 SAMPLE ID- 3833 Greenridge First Draw
LOCATION- Dissolved
DATE SAMPLED- 12/1/2012 TIME SAMPLED- 7:15 SAMPLER- L. Bennett
DATE RECEIVED- 12/3/2012 TIME RECEIVED- 12:25
DELIVERED BY- M. Emery RECEIVED BY- VPS

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromate	EPA 218.7	12/7/2012 12:24	SES	< 0.020	ug/L Cr	0.020
Chromium	EPA 200.8	12/14/2012 11:06	CHK	< 1.0	µg/L	1.0
Lead	EPA 200.8	12/14/2012 11:06	CHK	4.8	µg/L	1.0

Chromate %R for Matrix Spike and Matrix Spike Duplicate outside control limits. Suspect/Matrix

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12120317
Chesapeake GeoSciences, Inc., Columbia, MD
December 17, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3833 Greenridge-First Draw **Date/Time Sampled: 12/01/2012 07:15** **PSS Sample ID: 12120317-002**
Matrix: WATER **Date/Time Received: 12/03/2012 13:25**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Benzene	ND	ug/L	0.50		1	12/06/12	12/06/12 13:08	1014
Bromodichloromethane	ND	ug/L	0.50		1	12/06/12	12/06/12 13:08	1014
Bromoform	ND	ug/L	5.0		1	12/06/12	12/06/12 13:08	1014
Bromomethane	ND	ug/L	0.50		1	12/06/12	12/06/12 13:08	1014
Carbon Tetrachloride	ND	ug/L	0.50		1	12/06/12	12/06/12 13:08	1014
Chlorobenzene	ND	ug/L	0.50		1	12/06/12	12/06/12 13:08	1014
Chloroethane	ND	ug/L	0.50		1	12/06/12	12/06/12 13:08	1014
Chloroform	ND	ug/L	0.50		1	12/06/12	12/06/12 13:08	1014
Chloromethane	ND	ug/L	0.50		1	12/06/12	12/06/12 13:08	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0		1	12/06/12	12/06/12 13:08	1014
Dibromochloromethane	ND	ug/L	0.50		1	12/06/12	12/06/12 13:08	1014
1,2-Dibromoethane	ND	ug/L	0.50		1	12/06/12	12/06/12 13:08	1014
1,2-Dichlorobenzene	ND	ug/L	0.50		1	12/06/12	12/06/12 13:08	1014
1,3-Dichlorobenzene	ND	ug/L	0.50		1	12/06/12	12/06/12 13:08	1014
1,4-Dichlorobenzene	ND	ug/L	0.50		1	12/06/12	12/06/12 13:08	1014
Dichlorodifluoromethane	ND	ug/L	0.50		1	12/06/12	12/06/12 13:08	1014
1,1-Dichloroethane	ND	ug/L	0.50		1	12/06/12	12/06/12 13:08	1014
1,2-Dichloroethane	ND	ug/L	0.50		1	12/06/12	12/06/12 13:08	1014
cis-1,2-Dichloroethene	ND	ug/L	0.50		1	12/06/12	12/06/12 13:08	1014
trans-1,2-Dichloroethene	ND	ug/L	0.50		1	12/06/12	12/06/12 13:08	1014
1,1-Dichloroethene	ND	ug/L	0.50		1	12/06/12	12/06/12 13:08	1014
1,2-Dichloropropane	ND	ug/L	0.50		1	12/06/12	12/06/12 13:08	1014
Ethylbenzene	ND	ug/L	0.50		1	12/06/12	12/06/12 13:08	1014
Isopropylbenzene	ND	ug/L	0.50		1	12/06/12	12/06/12 13:08	1014
Methyl-t-butyl ether	ND	ug/L	0.50		1	12/06/12	12/06/12 13:08	1014
Naphthalene	ND	ug/L	0.50		1	12/06/12	12/06/12 13:08	1014
Styrene	ND	ug/L	0.50		1	12/06/12	12/06/12 13:08	1014
Diisopropyl ether	ND	ug/L	5.0		1	12/06/12	12/06/12 13:08	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50		1	12/06/12	12/06/12 13:08	1014
Tetrachloroethylene	ND	ug/L	0.50		1	12/06/12	12/06/12 13:08	1014

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12120317
Chesapeake GeoSciences, Inc., Columbia, MD
December 17, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3833 Greenridge-First Draw **Date/Time Sampled: 12/01/2012 07:15** **PSS Sample ID: 12120317-002**
Matrix: WATER **Date/Time Received: 12/03/2012 13:25**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Toluene	ND	ug/L	0.50		1	12/06/12	12/06/12 13:08	1014
1,2,4-Trichlorobenzene	ND	ug/L	0.50		1	12/06/12	12/06/12 13:08	1014
1,1,1-Trichloroethane	ND	ug/L	0.50		1	12/06/12	12/06/12 13:08	1014
1,1,2-Trichloroethane	ND	ug/L	0.50		1	12/06/12	12/06/12 13:08	1014
Trichloroethene	ND	ug/L	0.50		1	12/06/12	12/06/12 13:08	1014
Vinyl Chloride	ND	ug/L	0.50		1	12/06/12	12/06/12 13:08	1014
o-Xylene	ND	ug/L	0.50		1	12/06/12	12/06/12 13:08	1014
m,p-Xylenes	ND	ug/L	1.0		1	12/06/12	12/06/12 13:08	1014
tert-Butyl ethyl ether	ND	ug/L	5.0		1	12/06/12	12/06/12 13:08	1014
tert-Butyl alcohol	ND	ug/L	20		1	12/06/12	12/06/12 13:08	1014
tert-Amyl methyl ether	ND	ug/L	5.0		1	12/06/12	12/06/12 13:08	1014

ENVIRO-CHEM LABORATORIES, INC.

47 Loveton Circle, Suite K • Sparks, Maryland 21152 410-472-1112

FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 18-Dec-12
REPORT NUMBER: 3937

LAB#- ECL027334-003 SAMPLE ID- 3833 Greenridge Flushed
LOCATION- Total
DATE SAMPLED- 12/1/2012 TIME SAMPLED- 7:35 SAMPLER- L. Bennett
DATE RECEIVED- 12/3/2012 TIME RECEIVED- 12:25
DELIVERED BY- M. Emery RECEIVED BY- VPS

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromium	EPA 200.8	12/14/2012 11:06	CHK	< 1.0	µg/L	1.0
Lead	EPA 200.8	12/14/2012 11:06	CHK	39.3	µg/L	1.0

ENVIRO-CHEM LABORATORIES, INC.

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FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 18-Dec-12

REPORT NUMBER: 3937

LAB#- ECL027334-004 SAMPLE ID- 3833 Greenridge Flushed
LOCATION- Dissolved
DATE SAMPLED- 12/1/2012 TIME SAMPLED- 7:35 SAMPLER- L. Bennett
DATE RECEIVED- 12/3/2012 TIME RECEIVED- 12:25
DELIVERED BY- M. Emery RECEIVED BY- VPS

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromate	EPA 218.7	12/7/2012 13:21	SES	< 0.020	ug/L Cr	0.020
Chromium	EPA 200.8	12/14/2012 11:06	CHK	< 1.0	µg/L	1.0
Lead	EPA 200.8	12/14/2012 11:06	CHK	26.1	µg/L	1.0

Chromate %R for Matrix Spike and Matrix Spike Duplicate outside control limits. Suspect/Matrix

LABORATORY DIRECTOR

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12120317

Chesapeake GeoSciences, Inc., Columbia, MD

December 17, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3833 Greenridge-Flushed **Date/Time Sampled: 12/01/2012 07:35** **PSS Sample ID: 12120317-003**

Matrix: WATER **Date/Time Received: 12/03/2012 13:25**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Benzene	ND	ug/L	0.50		1	12/06/12	12/06/12 13:48	1014
Bromodichloromethane	ND	ug/L	0.50		1	12/06/12	12/06/12 13:48	1014
Bromoform	ND	ug/L	5.0		1	12/06/12	12/06/12 13:48	1014
Bromomethane	ND	ug/L	0.50		1	12/06/12	12/06/12 13:48	1014
Carbon Tetrachloride	ND	ug/L	0.50		1	12/06/12	12/06/12 13:48	1014
Chlorobenzene	ND	ug/L	0.50		1	12/06/12	12/06/12 13:48	1014
Chloroethane	ND	ug/L	0.50		1	12/06/12	12/06/12 13:48	1014
Chloroform	ND	ug/L	0.50		1	12/06/12	12/06/12 13:48	1014
Chloromethane	ND	ug/L	0.50		1	12/06/12	12/06/12 13:48	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0		1	12/06/12	12/06/12 13:48	1014
Dibromochloromethane	ND	ug/L	0.50		1	12/06/12	12/06/12 13:48	1014
1,2-Dibromoethane	ND	ug/L	0.50		1	12/06/12	12/06/12 13:48	1014
1,2-Dichlorobenzene	ND	ug/L	0.50		1	12/06/12	12/06/12 13:48	1014
1,3-Dichlorobenzene	ND	ug/L	0.50		1	12/06/12	12/06/12 13:48	1014
1,4-Dichlorobenzene	ND	ug/L	0.50		1	12/06/12	12/06/12 13:48	1014
Dichlorodifluoromethane	ND	ug/L	0.50		1	12/06/12	12/06/12 13:48	1014
1,1-Dichloroethane	ND	ug/L	0.50		1	12/06/12	12/06/12 13:48	1014
1,2-Dichloroethane	ND	ug/L	0.50		1	12/06/12	12/06/12 13:48	1014
cis-1,2-Dichloroethene	ND	ug/L	0.50		1	12/06/12	12/06/12 13:48	1014
trans-1,2-Dichloroethene	ND	ug/L	0.50		1	12/06/12	12/06/12 13:48	1014
1,1-Dichloroethene	ND	ug/L	0.50		1	12/06/12	12/06/12 13:48	1014
1,2-Dichloropropane	ND	ug/L	0.50		1	12/06/12	12/06/12 13:48	1014
Ethylbenzene	ND	ug/L	0.50		1	12/06/12	12/06/12 13:48	1014
Isopropylbenzene	ND	ug/L	0.50		1	12/06/12	12/06/12 13:48	1014
Methyl-t-butyl ether	ND	ug/L	0.50		1	12/06/12	12/06/12 13:48	1014
Naphthalene	ND	ug/L	0.50		1	12/06/12	12/06/12 13:48	1014
Styrene	ND	ug/L	0.50		1	12/06/12	12/06/12 13:48	1014
Diisopropyl ether	ND	ug/L	5.0		1	12/06/12	12/06/12 13:48	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50		1	12/06/12	12/06/12 13:48	1014
Tetrachloroethylene	ND	ug/L	0.50		1	12/06/12	12/06/12 13:48	1014

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12120317

Chesapeake GeoSciences, Inc., Columbia, MD

December 17, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3833 Greenridge-Flushed **Date/Time Sampled: 12/01/2012 07:35** **PSS Sample ID: 12120317-003**

Matrix: WATER **Date/Time Received: 12/03/2012 13:25**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Toluene	ND	ug/L	0.50		1	12/06/12	12/06/12 13:48	1014
1,2,4-Trichlorobenzene	ND	ug/L	0.50		1	12/06/12	12/06/12 13:48	1014
1,1,1-Trichloroethane	ND	ug/L	0.50		1	12/06/12	12/06/12 13:48	1014
1,1,2-Trichloroethane	ND	ug/L	0.50		1	12/06/12	12/06/12 13:48	1014
Trichloroethene	ND	ug/L	0.50		1	12/06/12	12/06/12 13:48	1014
Vinyl Chloride	ND	ug/L	0.50		1	12/06/12	12/06/12 13:48	1014
o-Xylene	ND	ug/L	0.50		1	12/06/12	12/06/12 13:48	1014
m,p-Xylenes	ND	ug/L	1.0		1	12/06/12	12/06/12 13:48	1014
tert-Butyl ethyl ether	ND	ug/L	5.0		1	12/06/12	12/06/12 13:48	1014
tert-Butyl alcohol	ND	ug/L	20		1	12/06/12	12/06/12 13:48	1014
tert-Amyl methyl ether	ND	ug/L	5.0		1	12/06/12	12/06/12 13:48	1014

MARYLAND DEPARTMENT OF THE ENVIRONMENT
1800 Washington Boulevard • Baltimore MD 21230
410-537-3000 • 1-800-633-6101 • www.mde.state.md.us

November 16, 2012

Ms. Dorothy M. Stevens
3923 Rosewood Road
Monrovia MD 21770

RE: DRINKING WATER SAMPLING RESULTS
MDE-FCHD Groundwater Investigation
Green Valley / Monrovia
Frederick County, Maryland

Dear Ms. Stevens:

On October 18, 2012, the Frederick County Health Department (FCHD) and the Maryland Department of the Environment's (MDE) contractor, sampled your drinking water supply. A first draw sample and a flushed sample were collected from your household plumbing system to investigate the potential presence and source of certain contaminants.

The full laboratory analytical reports are attached. The results related to lead, chromium, methyl tertiary butyl ether (MTBE), and pH are summarized below for reference. Note that all concentrations are presented as micrograms per liter (µg/L) (also known as parts per billion (ppb)). If the specific substance was not detected, the value is preceded by a "less than" symbol ("<"). Measurements of pH are unitless.

	First Draw	Flushed	MCL/Action Level/Recommended Range
Total Chromium	<1.0	2.4	100
Total Lead	6.4	1.7	15
Chromate / Hexavalent Chromium	<0.020	<0.020	0.3
Dissolved Chromium	<1.0	<1.0	n/a
Dissolved Lead	4.6	1.6	n/a
MTBE	<0.5	1.4	20
pH	5.92	5.82	6.5 – 8.5

The federal and state maximum contaminant level (MCL) for total chromium is 100 µg/L. There is no separate federal or state MCL for hexavalent chromium or for dissolved chromium. The MDE uses 0.3 µg/L as an action level for hexavalent chromium, because that is MDE's conservative lifetime exposure health based standard. The federal and state action level that warrants additional investigation for total lead in public drinking water supplies is 15 µg/L, so the MDE follows this level

as an action level for private water supplies. There is no separate level for dissolved lead. For MTBE, the state action level that warrants corrective measures is 20 µg/L. There is no federal action level for MTBE. The US EPA recommended pH range for drinking water is 6.5 to 8.5.

Hexavalent chromium and lead are metals that can be hazardous to human health. Both metals can occur naturally in the environment or may be generated by human activity. Home water pumps, piping and faucets also are known to be potential sources of lead in drinking water. MTBE is a compound associated with petroleum products.

The MDE and FCHD remind you to properly maintain any filtration equipment you use in your household and to follow all manufacturer recommendations. Additionally, both departments recommend that all private well users follow best practices to protect their wells and their family. This includes flushing your faucet for a few minutes prior to consuming the water, particularly after the water has not been used for an extended period of time.

For questions relating to private drinking water wells, please visit the MDE website at: http://bit.ly/MDEreswells, or call the Water Management Administration at 410-537-3780. If you would like more information about the ongoing petroleum cleanups in the Monrovia area at the former Green Valley Citgo or the Green Valley Garage, please visit the MDE website at: http://bit.ly/MDEoilcontrolremediation, or call the Oil Control Program at 410-537-3443. The FCHD also has information relating to well maintenance and contaminants on its website, including links to the EPA's information on lead and chromium, at: http://bit.ly/FCHDWaterQuality, or call them at 301-600-1717.

Sincerely,

Christopher Ralston, Administrator
Oil Control Program

CHR/nln

Enclosure

cc: Dr. Barbara Brookmyer, FCHD Health Officer
Mr. Jay Sakai, Director, MDE Water Management Administration
Mr. Horacio Tablada, Director, MDE Land Management Administration
Priscilla Carroll, Esq., Assistant Attorney General
Francesca Gibbs, Esq., Assistant Attorney General
M. Albert Figinski, Esq., Law Offices of Peter G. Angelos
Dwight Stone, Esq., Whiteford Taylor Preston

ENVIRO-CHEM LABORATORIES, INC.

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FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 30-Oct-12
REPORT NUMBER: 3414

LAB#- ECL026908-001 SAMPLE ID- 3923 Rosewood-First Draw
LOCATION- Total
DATE SAMPLED- 10/18/2012 TIME SAMPLED- 7:15 SAMPLER- L. Bennett
DATE RECEIVED- 10/18/2012 TIME RECEIVED- 9:50
DELIVERED BY- L. Bennett RECEIVED BY- VPS

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromium	EPA 200.8	10/23/2012 13:40	CHK	< 1.0	µg/L	1.0
Lead	EPA 200.8	10/23/2012 13:40	CHK	6.4	µg/L	1.0

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FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 30-Oct-12
REPORT NUMBER: 3414

LAB#- ECL026908-002 SAMPLE ID- 3923 Rosewood-First Draw
LOCATION- Dissolved
DATE SAMPLED- 10/18/2012 TIME SAMPLED- 7:15 SAMPLER- L. Bennett
DATE RECEIVED- 10/18/2012 TIME RECEIVED- 9:50
DELIVERED BY- L. Bennett RECEIVED BY- VPS

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromate	EPA 218.7	10/20/2012 23:12	SES	< 0.020	ug/L Cr	0.020
Chromium	EPA 200.8	10/23/2012 13:40	CHK	< 1.0	µg/L	1.0
Lead	EPA 200.8	10/23/2012 13:40	CHK	4.6	µg/L	1.0

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BALTIMORE, MD 21228
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800-932-9047
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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12101803
Chesapeake GeoSciences, Inc., Columbia, MD
November 1, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3923 Rosewood-First Draw **Date/Time Sampled: 10/18/2012 07:15** **PSS Sample ID: 12101803-001**
Matrix: WATER **Date/Time Received: 10/18/2012 10:34**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Benzene	ND	ug/L	0.50		1	10/25/12	10/26/12 00:41	1014
Bromodichloromethane	ND	ug/L	0.50		1	10/25/12	10/26/12 00:41	1014
Bromoform	ND	ug/L	5.0		1	10/25/12	10/26/12 00:41	1014
Bromomethane	ND	ug/L	0.50		1	10/25/12	10/26/12 00:41	1014
Carbon Tetrachloride	ND	ug/L	0.50		1	10/25/12	10/26/12 00:41	1014
Chlorobenzene	ND	ug/L	0.50		1	10/25/12	10/26/12 00:41	1014
Chloroethane	ND	ug/L	0.50		1	10/25/12	10/26/12 00:41	1014
Chloroform	ND	ug/L	0.50		1	10/25/12	10/26/12 00:41	1014
Chloromethane	ND	ug/L	0.50		1	10/25/12	10/26/12 00:41	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0		1	10/25/12	10/26/12 00:41	1014
Dibromochloromethane	ND	ug/L	0.50		1	10/25/12	10/26/12 00:41	1014
1,2-Dibromoethane	ND	ug/L	0.50		1	10/25/12	10/26/12 00:41	1014
1,2-Dichlorobenzene	ND	ug/L	0.50		1	10/25/12	10/26/12 00:41	1014
1,3-Dichlorobenzene	ND	ug/L	0.50		1	10/25/12	10/26/12 00:41	1014
1,4-Dichlorobenzene	ND	ug/L	0.50		1	10/25/12	10/26/12 00:41	1014
Dichlorodifluoromethane	ND	ug/L	0.50		1	10/25/12	10/26/12 00:41	1014
1,1-Dichloroethane	ND	ug/L	0.50		1	10/25/12	10/26/12 00:41	1014
1,2-Dichloroethane	ND	ug/L	0.50		1	10/25/12	10/26/12 00:41	1014
cis-1,2-Dichloroethene	ND	ug/L	0.50		1	10/25/12	10/26/12 00:41	1014
trans-1,2-Dichloroethene	ND	ug/L	0.50		1	10/25/12	10/26/12 00:41	1014
1,1-Dichloroethene	ND	ug/L	0.50		1	10/25/12	10/26/12 00:41	1014
1,2-Dichloropropane	ND	ug/L	0.50		1	10/25/12	10/26/12 00:41	1014
Ethylbenzene	ND	ug/L	0.50		1	10/25/12	10/26/12 00:41	1014
Isopropylbenzene	ND	ug/L	0.50		1	10/25/12	10/26/12 00:41	1014
Methyl-t-butyl ether	ND	ug/L	0.50		1	10/25/12	10/26/12 00:41	1014
Naphthalene	ND	ug/L	0.50		1	10/25/12	10/26/12 00:41	1014
Styrene	ND	ug/L	0.50		1	10/25/12	10/26/12 00:41	1014
Diisopropyl ether	ND	ug/L	5.0		1	10/25/12	10/26/12 00:41	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50		1	10/25/12	10/26/12 00:41	1014
Tetrachloroethylene	ND	ug/L	0.50		1	10/25/12	10/26/12 00:41	1014

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12101803
Chesapeake GeoSciences, Inc., Columbia, MD
November 1, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3923 Rosewood-First Draw **Date/Time Sampled: 10/18/2012 07:15** **PSS Sample ID: 12101803-001**
Matrix: WATER **Date/Time Received: 10/18/2012 10:34**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Toluene	ND	ug/L	0.50		1	10/25/12	10/26/12 00:41	1014
1,2,4-Trichlorobenzene	ND	ug/L	0.50		1	10/25/12	10/26/12 00:41	1014
1,1,1-Trichloroethane	ND	ug/L	0.50		1	10/25/12	10/26/12 00:41	1014
1,1,2-Trichloroethane	ND	ug/L	0.50		1	10/25/12	10/26/12 00:41	1014
Trichloroethene	ND	ug/L	0.50		1	10/25/12	10/26/12 00:41	1014
Vinyl Chloride	ND	ug/L	0.50		1	10/25/12	10/26/12 00:41	1014
o-Xylene	ND	ug/L	0.50		1	10/25/12	10/26/12 00:41	1014
m,p-Xylenes	ND	ug/L	1.0		1	10/25/12	10/26/12 00:41	1014
tert-Butyl ethyl ether	ND	ug/L	5.0		1	10/25/12	10/26/12 00:41	1014
tert-Butyl alcohol	ND	ug/L	20		1	10/25/12	10/26/12 00:41	1014
tert-Amyl methyl ether	ND	ug/L	5.0		1	10/25/12	10/26/12 00:41	1014

ENVIRO-CHEM LABORATORIES, INC.

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FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 30-Oct-12
REPORT NUMBER: 3414

LAB#- ECL026908-003 SAMPLE ID- 3923 Rosewood-Flushed
LOCATION- Total
DATE SAMPLED- 10/18/2012 TIME SAMPLED- 7:45 SAMPLER- L. Bennett
DATE RECEIVED- 10/18/2012 TIME RECEIVED- 9:50
DELIVERED BY- L. Bennett RECEIVED BY- VPS

Page 3 of 4

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromium	EPA 200.8	10/23/2012 13:40	CHK	2.4	µg/L	1.0
Lead	EPA 200.8	10/23/2012 13:40	CHK	1.7	µg/L	1.0

ENVIRO-CHEM LABORATORIES, INC.

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FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
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Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 30-Oct-12
REPORT NUMBER: 3414

LAB#- ECL026908-004 SAMPLE ID- 3923 Rosewood-Flushed
LOCATION- Dissolved
DATE SAMPLED- 10/18/2012 TIME SAMPLED- 7:45 SAMPLER- L. Bennett
DATE RECEIVED- 10/18/2012 TIME RECEIVED- 9:50
DELIVERED BY- L. Bennett RECEIVED BY- VPS

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromate	EPA 218.7	10/20/2012 23:31	SES	< 0.020	ug/L Cr	0.020
Chromium	EPA 200.8	10/23/2012 13:40	CHK	< 1.0	µg/L	1.0
Lead	EPA 200.8	10/23/2012 13:40	CHK	1.6	µg/L	1.0

Stephen E. Dolly

LABORATORY DIRECTOR

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12101803
Chesapeake GeoSciences, Inc., Columbia, MD
November 1, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3923 Rosewood-Flushed **Date/Time Sampled: 10/18/2012 07:45** **PSS Sample ID: 12101803-002**
Matrix: WATER **Date/Time Received: 10/18/2012 10:34**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Benzene	ND	ug/L	0.50		1	10/25/12	10/26/12 01:23	1014
Bromodichloromethane	ND	ug/L	0.50		1	10/25/12	10/26/12 01:23	1014
Bromoform	ND	ug/L	5.0		1	10/25/12	10/26/12 01:23	1014
Bromomethane	ND	ug/L	0.50		1	10/25/12	10/26/12 01:23	1014
Carbon Tetrachloride	ND	ug/L	0.50		1	10/25/12	10/26/12 01:23	1014
Chlorobenzene	ND	ug/L	0.50		1	10/25/12	10/26/12 01:23	1014
Chloroethane	ND	ug/L	0.50		1	10/25/12	10/26/12 01:23	1014
Chloroform	ND	ug/L	0.50		1	10/25/12	10/26/12 01:23	1014
Chloromethane	ND	ug/L	0.50		1	10/25/12	10/26/12 01:23	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0		1	10/25/12	10/26/12 01:23	1014
Dibromochloromethane	ND	ug/L	0.50		1	10/25/12	10/26/12 01:23	1014
1,2-Dibromoethane	ND	ug/L	0.50		1	10/25/12	10/26/12 01:23	1014
1,2-Dichlorobenzene	ND	ug/L	0.50		1	10/25/12	10/26/12 01:23	1014
1,3-Dichlorobenzene	ND	ug/L	0.50		1	10/25/12	10/26/12 01:23	1014
1,4-Dichlorobenzene	ND	ug/L	0.50		1	10/25/12	10/26/12 01:23	1014
Dichlorodifluoromethane	ND	ug/L	0.50		1	10/25/12	10/26/12 01:23	1014
1,1-Dichloroethane	ND	ug/L	0.50		1	10/25/12	10/26/12 01:23	1014
1,2-Dichloroethane	ND	ug/L	0.50		1	10/25/12	10/26/12 01:23	1014
cis-1,2-Dichloroethene	ND	ug/L	0.50		1	10/25/12	10/26/12 01:23	1014
trans-1,2-Dichloroethene	ND	ug/L	0.50		1	10/25/12	10/26/12 01:23	1014
1,1-Dichloroethene	ND	ug/L	0.50		1	10/25/12	10/26/12 01:23	1014
1,2-Dichloropropane	ND	ug/L	0.50		1	10/25/12	10/26/12 01:23	1014
Ethylbenzene	ND	ug/L	0.50		1	10/25/12	10/26/12 01:23	1014
Isopropylbenzene	ND	ug/L	0.50		1	10/25/12	10/26/12 01:23	1014
Methyl-t-butyl ether	**1.4**	ug/L	0.50		1	10/25/12	10/26/12 01:23	1014
Naphthalene	ND	ug/L	0.50		1	10/25/12	10/26/12 01:23	1014
Styrene	ND	ug/L	0.50		1	10/25/12	10/26/12 01:23	1014
Diisopropyl ether	ND	ug/L	5.0		1	10/25/12	10/26/12 01:23	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50		1	10/25/12	10/26/12 01:23	1014
Tetrachloroethylene	ND	ug/L	0.50		1	10/25/12	10/26/12 01:23	1014

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12101803
Chesapeake GeoSciences, Inc., Columbia, MD
November 1, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3923 Rosewood-Flushed **Date/Time Sampled: 10/18/2012 07:45** **PSS Sample ID: 12101803-002**
Matrix: WATER **Date/Time Received: 10/18/2012 10:34**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Toluene	ND	ug/L	0.50		1	10/25/12	10/26/12 01:23	1014
1,2,4-Trichlorobenzene	ND	ug/L	0.50		1	10/25/12	10/26/12 01:23	1014
1,1,1-Trichloroethane	ND	ug/L	0.50		1	10/25/12	10/26/12 01:23	1014
1,1,2-Trichloroethane	ND	ug/L	0.50		1	10/25/12	10/26/12 01:23	1014
Trichloroethene	ND	ug/L	0.50		1	10/25/12	10/26/12 01:23	1014
Vinyl Chloride	ND	ug/L	0.50		1	10/25/12	10/26/12 01:23	1014
o-Xylene	ND	ug/L	0.50		1	10/25/12	10/26/12 01:23	1014
m,p-Xylenes	ND	ug/L	1.0		1	10/25/12	10/26/12 01:23	1014
tert-Butyl ethyl ether	ND	ug/L	5.0		1	10/25/12	10/26/12 01:23	1014
tert-Butyl alcohol	ND	ug/L	20		1	10/25/12	10/26/12 01:23	1014
tert-Amyl methyl ether	ND	ug/L	5.0		1	10/25/12	10/26/12 01:23	1014

MARYLAND DEPARTMENT OF THE ENVIRONMENT
1800 Washington Boulevard • Baltimore MD 21230
410-537-3000 • 1-800-633-6101 • www.mde.state.md.us

Martin O'Malley
Governor

Anthony G. Brown
Lieutenant Governor

Robert M. Summers, Ph.D.
Secretary

December 7, 2012

Mr. and Mrs. Ronald and Rose Ross
3933 Rosewood Drive
Monrovia MD 21770

RE: DRINKING WATER SAMPLING RESULTS
MDE-FCHD Groundwater Investigation
Green Valley / Monrovia
Frederick County, Maryland

Dear Mr. and Mrs. Ross:

On November 13, 2012, the Frederick County Health Department (FCHD) and the Maryland Department of the Environment's (MDE) contractor, sampled your drinking water supply. A first draw sample and a flushed sample were collected from your household plumbing system to investigate the potential presence and source of certain contaminants.

The full laboratory analytical reports are attached. The results related to lead, chromium, methyl tertiary-butyl ether (MTBE), and pH are summarized below for reference. Note that all concentrations are presented as micrograms per liter (μg/L) (also known as parts per billion [ppb]). If the specific substance was not detected, the value is preceded by a "less than" symbol ("<"). Measurements of pH are unitless.

	First Draw	Flushed	MCL/Action Level/Recommended Range
Total Chromium	<1.0	7.2	100
Total Lead	2.4	<1.0	15
Chromate / Hexavalent Chromium	<0.020	<0.020	0.3
Dissolved Chromium	<1.0	<1.0	n/a
Dissolved Lead	1.3	<1.0	n/a
MTBE	<0.5	<0.5	20
pH	7.21	7.06	6.5 – 8.5

The federal and state maximum contaminant level (MCL) for total chromium is 100 μg/L. There is no separate federal or state MCL for hexavalent chromium or for dissolved chromium. The MDE uses 0.3 μg/L as an action level for hexavalent chromium, because that is MDE's conservative lifetime exposure health based standard. The federal and state action level that warrants additional investigation for total lead in public drinking water supplies is 15 μg/L, so the MDE follows this level

as an action level for private water supplies. There is no separate level for dissolved lead. For MTBE, the state action level that warrants corrective measures is 20 μg/L. There is no federal action level for MTBE. The federal MCL for trihalomethanes, which chloroform is a part of, is 80 μg/L. The US EPA recommended pH range for drinking water is 6.5 to 8.5.

Hexavalent chromium and lead are metals that can be hazardous to human health. Both metals can occur naturally in the environment or may be generated by human activity. Home water pumps, piping, and faucets also are known to be potential sources of lead in drinking water. MTBE is a compound associated with petroleum products.

The MDE and FCHD remind you to properly maintain any filtration equipment you use in your household and to follow all manufacturer recommendations. Additionally, both departments recommend that all private well users follow best practices to protect their wells and their family. This includes flushing your faucet for a few minutes prior to consuming the water, particularly after the water has not been used for an extended period of time.

For questions relating to private drinking water wells, please visit the MDE website at: http://bit.ly/MDEreswells, or call the Water Management Administration at 410-537-3780. If you would like more information about the ongoing petroleum cleanups in the Monrovia area at the former Green Valley Citgo or the Green Valley Garage, please visit the MDE website at: http://bit.ly/MDEoilcontrolremediation, or call the Oil Control Program at 410-537-3443. The FCHD also has information relating to well maintenance and contaminants on its website, including links to the EPA's information on lead and chromium, at: http://bit.ly/FCHDWaterQuality, or call them at 301-600-1717.

Sincerely,

Christopher Ralston, Administrator
Oil Control Program

CHR/nln

Enclosure

cc: Dr. Barbara Brookmyer, FCHD Health Officer
Mr. Jay Sakai, Director, MDE Water Management Administration
Mr. Horacio Tablada, Director, MDE Land Management Administration
Priscilla N. Carroll, Esq., Assistant Attorney General
Francesca Gibbs, Esq., Assistant Attorney General
M. Albert Figinski, Esq., Law Offices of Peter G. Angelos
Dwight Stone, Esq., Whiteford Taylor Preston

ENVIRO-CHEM LABORATORIES, INC.

47 Loveton Circle, Suite K • Sparks, Maryland 21152 410-472-1112

FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 24-Nov-12
REPORT NUMBER: 3653

LAB#- ECL027154-005 SAMPLE ID- 3933 Rosewood First Draw
LOCATION- Total
DATE SAMPLED- 11/13/2012 TIME SAMPLED- 15:55 SAMPLER- M. Emery
DATE RECEIVED- 11/14/2012 TIME RECEIVED- 11:05
DELIVERED BY- M. Emery RECEIVED BY- VPS

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromium	EPA 200.8	11/18/2012 10:03	MAP	<1.0	µg/L	1.0
Lead	EPA 200.8	11/18/2012 10:03	MAP	2.4	µg/L	1.0

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FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 24-Nov-12

REPORT NUMBER: 3653

LAB#- ECL027154-006 SAMPLE ID- 3933 Rosewood First Draw
LOCATION- Dissolved
DATE SAMPLED- 11/13/2012 TIME SAMPLED- 15:55 SAMPLER- M. Emery
DATE RECEIVED- 11/14/2012 TIME RECEIVED- 11:05
DELIVERED BY- M. Emery RECEIVED BY- VPS

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromate	EPA 218.7	11/15/2012 12:56	SES	< 0.020	ug/L Cr	0.020
Chromium	EPA 200.8	11/18/2012 10:03	MAP	< 1.0	µg/L	1.0
Lead	EPA 200.8	11/18/2012 10:03	MAP	1.3	µg/L	1.0

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12111404
Chesapeake GeoSciences, Inc., Columbia, MD
November 30, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3933 Rosewood-First Draw **Date/Time Sampled: 11/13/2012 15:55** **PSS Sample ID: 12111404-003**
Matrix: WATER **Date/Time Received: 11/14/2012 10:25**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Benzene	ND	ug/L	0.50		1	11/22/12	11/22/12 19:14	1014
Bromodichloromethane	ND	ug/L	0.50		1	11/22/12	11/22/12 19:14	1014
Bromoform	ND	ug/L	5.0		1	11/22/12	11/22/12 19:14	1014
Bromomethane	ND	ug/L	0.50		1	11/22/12	11/22/12 19:14	1014
Carbon Tetrachloride	ND	ug/L	0.50		1	11/22/12	11/22/12 19:14	1014
Chlorobenzene	ND	ug/L	0.50		1	11/22/12	11/22/12 19:14	1014
Chloroethane	ND	ug/L	0.50		1	11/22/12	11/22/12 19:14	1014
Chloroform	ND	ug/L	0.50		1	11/22/12	11/22/12 19:14	1014
Chloromethane	ND	ug/L	0.50		1	11/22/12	11/22/12 19:14	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0		1	11/22/12	11/22/12 19:14	1014
Dibromochloromethane	ND	ug/L	0.50		1	11/22/12	11/22/12 19:14	1014
1,2-Dibromoethane	ND	ug/L	0.50		1	11/22/12	11/22/12 19:14	1014
1,2-Dichlorobenzene	ND	ug/L	0.50		1	11/22/12	11/22/12 19:14	1014
1,3-Dichlorobenzene	ND	ug/L	0.50		1	11/22/12	11/22/12 19:14	1014
1,4-Dichlorobenzene	ND	ug/L	0.50		1	11/22/12	11/22/12 19:14	1014
Dichlorodifluoromethane	ND	ug/L	0.50		1	11/22/12	11/22/12 19:14	1014
1,1-Dichloroethane	ND	ug/L	0.50		1	11/22/12	11/22/12 19:14	1014
1,2-Dichloroethane	ND	ug/L	0.50		1	11/22/12	11/22/12 19:14	1014
cis-1,2-Dichloroethene	ND	ug/L	0.50		1	11/22/12	11/22/12 19:14	1014
trans-1,2-Dichloroethene	ND	ug/L	0.50		1	11/22/12	11/22/12 19:14	1014
1,1-Dichloroethene	ND	ug/L	0.50		1	11/22/12	11/22/12 19:14	1014
1,2-Dichloropropane	ND	ug/L	0.50		1	11/22/12	11/22/12 19:14	1014
Ethylbenzene	ND	ug/L	0.50		1	11/22/12	11/22/12 19:14	1014
Isopropylbenzene	ND	ug/L	0.50		1	11/22/12	11/22/12 19:14	1014
Methyl-t-butyl ether	ND	ug/L	0.50		1	11/22/12	11/22/12 19:14	1014
Naphthalene	ND	ug/L	0.50		1	11/22/12	11/22/12 19:14	1014
Styrene	ND	ug/L	0.50		1	11/22/12	11/22/12 19:14	1014
Diisopropyl ether	ND	ug/L	5.0		1	11/22/12	11/22/12 19:14	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50		1	11/22/12	11/22/12 19:14	1014
Tetrachloroethylene	ND	ug/L	0.50		1	11/22/12	11/22/12 19:14	1014

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12111404

Chesapeake GeoSciences, Inc., Columbia, MD

November 30, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3933 Rosewood-First Draw **Date/Time Sampled: 11/13/2012 15:55** **PSS Sample ID: 12111404-003**

Matrix: WATER **Date/Time Received: 11/14/2012 10:25**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Toluene	ND	ug/L	0.50		1	11/22/12	11/22/12 19:14	1014
1,2,4-Trichlorobenzene	ND	ug/L	0.50		1	11/22/12	11/22/12 19:14	1014
1,1,1-Trichloroethane	ND	ug/L	0.50		1	11/22/12	11/22/12 19:14	1014
1,1,2-Trichloroethane	ND	ug/L	0.50		1	11/22/12	11/22/12 19:14	1014
Trichloroethene	ND	ug/L	0.50		1	11/22/12	11/22/12 19:14	1014
Vinyl Chloride	ND	ug/L	0.50		1	11/22/12	11/22/12 19:14	1014
o-Xylene	ND	ug/L	0.50		1	11/22/12	11/22/12 19:14	1014
m,p-Xylenes	ND	ug/L	1.0		1	11/22/12	11/22/12 19:14	1014
tert-Butyl ethyl ether	ND	ug/L	5.0		1	11/22/12	11/22/12 19:14	1014
tert-Butyl alcohol	ND	ug/L	20		1	11/22/12	11/22/12 19:14	1014
tert-Amyl methyl ether	ND	ug/L	5.0		1	11/22/12	11/22/12 19:14	1014

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LABORATORIES, INC.

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FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 24-Nov-12

REPORT NUMBER: 3653

LAB#- ECL027154-007 SAMPLE ID- 3933 Rosewood Flushed
LOCATION- Total
DATE SAMPLED- 11/13/2012 TIME SAMPLED- 16:30 SAMPLER- M. Emery
DATE RECEIVED- 11/14/2012 TIME RECEIVED- 11:05
DELIVERED BY- M. Emery RECEIVED BY- VPS

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromium	EPA 200.8	11/18/2012 10:03	MAP	7.2	µg/L	1.0
Lead	EPA 200.8	11/18/2012 10:03	MAP	<1.0	µg/L	1.0

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LABORATORIES, INC.

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FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 24-Nov-12
REPORT NUMBER: 3653

LAB#- ECL027154-008 SAMPLE ID- 3933 Rosewood Flushed
LOCATION- Dissolved
DATE SAMPLED- 11/13/2012 TIME SAMPLED- 16:30 SAMPLER- M. Emery
DATE RECEIVED- 11/14/2012 TIME RECEIVED- 11:05
DELIVERED BY- M. Emery RECEIVED BY- VPS

Page 8 of 12

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromate	EPA 218.7	11/15/2012 13:15	SES	< 0.020	ug/L Cr	0.020
Chromium	EPA 200.8	11/18/2012 10:03	MAP	< 1.0	µg/L	1.0
Lead	EPA 200.8	11/18/2012 10:03	MAP	< 1.0	µg/L	1.0

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12111404
Chesapeake GeoSciences, Inc., Columbia, MD
November 30, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3933 Rosewood-Flushed **Date/Time Sampled: 11/13/2012 16:30** **PSS Sample ID: 12111404-004**
Matrix: WATER **Date/Time Received: 11/14/2012 10:25**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Benzene	ND	ug/L	0.50		1	11/22/12	11/22/12 19:54	1014
Bromodichloromethane	ND	ug/L	0.50		1	11/22/12	11/22/12 19:54	1014
Bromoform	ND	ug/L	5.0		1	11/22/12	11/22/12 19:54	1014
Bromomethane	ND	ug/L	0.50		1	11/22/12	11/22/12 19:54	1014
Carbon Tetrachloride	ND	ug/L	0.50		1	11/22/12	11/22/12 19:54	1014
Chlorobenzene	ND	ug/L	0.50		1	11/22/12	11/22/12 19:54	1014
Chloroethane	ND	ug/L	0.50		1	11/22/12	11/22/12 19:54	1014
Chloroform	ND	ug/L	0.50		1	11/22/12	11/22/12 19:54	1014
Chloromethane	ND	ug/L	0.50		1	11/22/12	11/22/12 19:54	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0		1	11/22/12	11/22/12 19:54	1014
Dibromochloromethane	ND	ug/L	0.50		1	11/22/12	11/22/12 19:54	1014
1,2-Dibromoethane	ND	ug/L	0.50		1	11/22/12	11/22/12 19:54	1014
1,2-Dichlorobenzene	ND	ug/L	0.50		1	11/22/12	11/22/12 19:54	1014
1,3-Dichlorobenzene	ND	ug/L	0.50		1	11/22/12	11/22/12 19:54	1014
1,4-Dichlorobenzene	ND	ug/L	0.50		1	11/22/12	11/22/12 19:54	1014
Dichlorodifluoromethane	ND	ug/L	0.50		1	11/22/12	11/22/12 19:54	1014
1,1-Dichloroethane	ND	ug/L	0.50		1	11/22/12	11/22/12 19:54	1014
1,2-Dichloroethane	ND	ug/L	0.50		1	11/22/12	11/22/12 19:54	1014
cis-1,2-Dichloroethene	ND	ug/L	0.50		1	11/22/12	11/22/12 19:54	1014
trans-1,2-Dichloroethene	ND	ug/L	0.50		1	11/22/12	11/22/12 19:54	1014
1,1-Dichloroethene	ND	ug/L	0.50		1	11/22/12	11/22/12 19:54	1014
1,2-Dichloropropane	ND	ug/L	0.50		1	11/22/12	11/22/12 19:54	1014
Ethylbenzene	ND	ug/L	0.50		1	11/22/12	11/22/12 19:54	1014
Isopropylbenzene	ND	ug/L	0.50		1	11/22/12	11/22/12 19:54	1014
Methyl-t-butyl ether	ND	ug/L	0.50		1	11/22/12	11/22/12 19:54	1014
Naphthalene	ND	ug/L	0.50		1	11/22/12	11/22/12 19:54	1014
Styrene	ND	ug/L	0.50		1	11/22/12	11/22/12 19:54	1014
Diisopropyl ether	ND	ug/L	5.0		1	11/22/12	11/22/12 19:54	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50		1	11/22/12	11/22/12 19:54	1014
Tetrachloroethylene	ND	ug/L	0.50		1	11/22/12	11/22/12 19:54	1014

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12111404
Chesapeake GeoSciences, Inc., Columbia, MD
November 30, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3933 Rosewood-Flushed **Date/Time Sampled: 11/13/2012 16:30** **PSS Sample ID: 12111404-004**
Matrix: WATER **Date/Time Received: 11/14/2012 10:25**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Toluene	ND	ug/L	0.50		1	11/22/12	11/22/12 19:54	1014
1,2,4-Trichlorobenzene	ND	ug/L	0.50		1	11/22/12	11/22/12 19:54	1014
1,1,1-Trichloroethane	ND	ug/L	0.50		1	11/22/12	11/22/12 19:54	1014
1,1,2-Trichloroethane	ND	ug/L	0.50		1	11/22/12	11/22/12 19:54	1014
Trichloroethene	ND	ug/L	0.50		1	11/22/12	11/22/12 19:54	1014
Vinyl Chloride	ND	ug/L	0.50		1	11/22/12	11/22/12 19:54	1014
o-Xylene	ND	ug/L	0.50		1	11/22/12	11/22/12 19:54	1014
m,p-Xylenes	ND	ug/L	1.0		1	11/22/12	11/22/12 19:54	1014
tert-Butyl ethyl ether	ND	ug/L	5.0		1	11/22/12	11/22/12 19:54	1014
tert-Butyl alcohol	ND	ug/L	20		1	11/22/12	11/22/12 19:54	1014
tert-Amyl methyl ether	ND	ug/L	5.0		1	11/22/12	11/22/12 19:54	1014

MARYLAND DEPARTMENT OF THE ENVIRONMENT
1800 Washington Boulevard • Baltimore MD 21230
MDE 410-537-3000 • 1-800-633-6101 • www.mde.state.md.us

December 7, 2012

Mr. and Mrs. Ronald and Karen Anderson
3984 Farm Lane
Monrovia MD 21770-8914

RE: DRINKING WATER SAMPLING RESULTS
MDE-FCHD Groundwater Investigation
Green Valley / Monrovia
Frederick County, Maryland

Dear Mr. and Mrs. Anderson:

On November 7, 2012, the Frederick County Health Department (FCHD) and the Maryland Department of the Environment's (MDE) contractor, sampled your drinking water supply. A first draw sample and a flushed sample were collected from your household plumbing system to investigate the potential presence and source of certain contaminants.

The full laboratory analytical reports are attached. The results related to lead, chromium, methyl tertiary-butyl ether (MTBE), and pH are summarized below for reference. Note that all concentrations are presented as micrograms per liter (μg/L) (also known as parts per billion [ppb]). If the specific substance was not detected, the value is preceded by a "less than" symbol ("<"). Measurements of pH are unitless.

	First Draw	**Flushed**	**MCL/Action Level/Recommended Range**
Total Chromium	<1.0	<1.0	100
Total Lead	1.9	<1.0	15
Chromate / Hexavalent Chromium	<0.020	0.022	0.3
Dissolved Chromium	<1.0	<1.0	n/a
Dissolved Lead	<1.0	2.3	n/a
MTBE	<0.5	<0.5	20
pH	7.55	6.84	6.5 – 8.5

The federal and state maximum contaminant level (MCL) for total chromium is 100 μg/L. There is no separate federal or state MCL for hexavalent chromium or for dissolved chromium. The MDE uses 0.3 μg/L as an action level for hexavalent chromium, because that is MDE's conservative lifetime exposure health based standard. The federal and state action level that warrants additional investigation for total lead in public drinking water supplies is 15 μg/L, so the MDE follows this level

as an action level for private water supplies. There is no separate level for dissolved lead. For MTBE, the state action level that warrants corrective measures is 20 μg/L. There is no federal action level for MTBE. The US EPA recommended pH range for drinking water is 6.5 to 8.5.

Hexavalent chromium and lead are metals that can be hazardous to human health. Both metals can occur naturally in the environment or may be generated by human activity. Home water pumps, piping, and faucets also are known to be potential sources of lead in drinking water. MTBE is a compound associated with petroleum products.

The MDE and FCHD remind you to properly maintain any filtration equipment you use in your household and to follow all manufacturer recommendations. Additionally, both departments recommend that all private well users follow best practices to protect their wells and their family. This includes flushing your faucet for a few minutes prior to consuming the water, particularly after the water has not been used for an extended period of time.

For questions relating to private drinking water wells, please visit the MDE website at: http://bit.ly/MDEreswells, or call the Water Management Administration at 410-537-3780. If you would like more information about the ongoing petroleum cleanups in the Monrovia area at the former Green Valley Citgo or the Green Valley Garage, please visit the MDE website at: http://bit.ly/MDEoilcontrolremediation, or call the Oil Control Program at 410-537-3443. The FCHD also has information relating to well maintenance and contaminants on its website, including links to the EPA's information on lead and chromium, at: http://bit.ly/FCHDWaterQuality, or call them at 301-600-1717.

Sincerely,

Christopher Ralston, Administrator
Oil Control Program

CHR/nln

Enclosure

cc: Dr. Barbara Brookmyer, FCHD Health Officer
Mr. Jay Sakai, Director, MDE Water Management Administration
Mr. Horacio Tablada, Director, MDE Land Management Administration
Priscilla N. Carroll, Esq., Assistant Attorney General
Francesca Gibbs, Esq., Assistant Attorney General
M. Albert Figinski, Esq., Law Offices of Peter G. Angelos
Dwight Stone, Esq., Whiteford Taylor Preston

ENVIRO-CHEM LABORATORIES, INC.

47 Loveton Circle, Suite K • Sparks, Maryland 21152 410-472-1112

FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 20-Nov-12

REPORT NUMBER: 3641

LAB#- ECL027072-001 SAMPLE ID- 3984A Farm First Draw
LOCATION- Total
DATE SAMPLED- 11/7/2012 TIME SAMPLED- 7:05 SAMPLER- L. Bennet
DATE RECEIVED- 11/7/2012 TIME RECEIVED- 10:05
DELIVERED BY- M. Emery RECEIVED BY- AAA

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromium	EPA 200.8	11/13/2012 10:49	MAP	< 1.0	µg/L	1.0
Lead	EPA 200.8	11/13/2012 10:49	MAP	1.9	µg/L	1.0

ENVIRO-CHEM LABORATORIES, INC.

47 Loveton Circle, Suite K • Sparks, Maryland 21152 410-472-1112

FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 20-Nov-12
REPORT NUMBER: 3641

LAB#- ECL027072-002 SAMPLE ID- 3984A Farm First Draw
LOCATION- Dissolved
DATE SAMPLED- 11/7/2012 TIME SAMPLED- 7:05 SAMPLER- L. Bennet
DATE RECEIVED- 11/7/2012 TIME RECEIVED- 10:05
DELIVERED BY- M. Emery RECEIVED BY- AAA

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromate	EPA 218.7	11/14/2012 00:21	SES	< 0.020	ug/L Cr	0.020
Chromium	EPA 200.8	11/13/2012 10:49	MAP	< 1.0	µg/L	1.0
Lead	EPA 200.8	11/13/2012 10:49	MAP	< 1.0	µg/L	1.0

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS
No: 12110707
Chesapeake GeoSciences, Inc., Columbia, MD
November 21, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3984A Farm-First Draw **Date/Time Sampled: 11/07/2012 07:05** **PSS Sample ID: 12110707-002**
Matrix: WATER **Date/Time Received: 11/07/2012 10:50**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Benzene	ND	ug/L	0.50		1	11/13/12	11/14/12 03:31	1014
Bromodichloromethane	ND	ug/L	0.50		1	11/13/12	11/14/12 03:31	1014
Bromoform	ND	ug/L	5.0		1	11/13/12	11/14/12 03:31	1014
Bromomethane	ND	ug/L	0.50		1	11/13/12	11/14/12 03:31	1014
Carbon Tetrachloride	ND	ug/L	0.50		1	11/13/12	11/14/12 03:31	1014
Chlorobenzene	ND	ug/L	0.50		1	11/13/12	11/14/12 03:31	1014
Chloroethane	ND	ug/L	0.50		1	11/13/12	11/14/12 03:31	1014
Chloroform	ND	ug/L	0.50		1	11/13/12	11/14/12 03:31	1014
Chloromethane	ND	ug/L	0.50		1	11/13/12	11/14/12 03:31	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0		1	11/13/12	11/14/12 03:31	1014
Dibromochloromethane	ND	ug/L	0.50		1	11/13/12	11/14/12 03:31	1014
1,2-Dibromoethane	ND	ug/L	0.50		1	11/13/12	11/14/12 03:31	1014
1,2-Dichlorobenzene	ND	ug/L	0.50		1	11/13/12	11/14/12 03:31	1014
1,3-Dichlorobenzene	ND	ug/L	0.50		1	11/13/12	11/14/12 03:31	1014
1,4-Dichlorobenzene	ND	ug/L	0.50		1	11/13/12	11/14/12 03:31	1014
Dichlorodifluoromethane	ND	ug/L	0.50		1	11/13/12	11/14/12 03:31	1014
1,1-Dichloroethane	ND	ug/L	0.50		1	11/13/12	11/14/12 03:31	1014
1,2-Dichloroethane	ND	ug/L	0.50		1	11/13/12	11/14/12 03:31	1014
cis-1,2-Dichloroethene	ND	ug/L	0.50		1	11/13/12	11/14/12 03:31	1014
trans-1,2-Dichloroethene	ND	ug/L	0.50		1	11/13/12	11/14/12 03:31	1014
1,1-Dichloroethene	ND	ug/L	0.50		1	11/13/12	11/14/12 03:31	1014
1,2-Dichloropropane	ND	ug/L	0.50		1	11/13/12	11/14/12 03:31	1014
Ethylbenzene	ND	ug/L	0.50		1	11/13/12	11/14/12 03:31	1014
Isopropylbenzene	ND	ug/L	0.50		1	11/13/12	11/14/12 03:31	1014
Methyl-t-butyl ether	ND	ug/L	0.50		1	11/13/12	11/14/12 03:31	1014
Naphthalene	ND	ug/L	0.50		1	11/13/12	11/14/12 03:31	1014
Styrene	ND	ug/L	0.50		1	11/13/12	11/14/12 03:31	1014
Diisopropyl ether	ND	ug/L	5.0		1	11/13/12	11/14/12 03:31	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50		1	11/13/12	11/14/12 03:31	1014
Tetrachloroethylene	ND	ug/L	0.50		1	11/13/12	11/14/12 03:31	1014

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12110707
Chesapeake GeoSciences, Inc., Columbia, MD
November 21, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3984A Farm-First Draw **Date/Time Sampled: 11/07/2012 07:05** **PSS Sample ID: 12110707-002**
Matrix: WATER **Date/Time Received: 11/07/2012 10:50**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Toluene	ND	ug/L	0.50		1	11/13/12	11/14/12 03:31	1014
1,2,4-Trichlorobenzene	ND	ug/L	0.50		1	11/13/12	11/14/12 03:31	1014
1,1,1-Trichloroethane	ND	ug/L	0.50		1	11/13/12	11/14/12 03:31	1014
1,1,2-Trichloroethane	ND	ug/L	0.50		1	11/13/12	11/14/12 03:31	1014
Trichloroethene	ND	ug/L	0.50		1	11/13/12	11/14/12 03:31	1014
Vinyl Chloride	ND	ug/L	0.50		1	11/13/12	11/14/12 03:31	1014
o-Xylene	ND	ug/L	0.50		1	11/13/12	11/14/12 03:31	1014
m,p-Xylenes	ND	ug/L	1.0		1	11/13/12	11/14/12 03:31	1014
tert-Butyl ethyl ether	ND	ug/L	5.0		1	11/13/12	11/14/12 03:31	1014
tert-Butyl alcohol	ND	ug/L	20		1	11/13/12	11/14/12 03:31	1014
tert-Amyl methyl ether	ND	ug/L	5.0		1	11/13/12	11/14/12 03:31	1014

ENVIRO-CHEM
LABORATORIES, INC.

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FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 20-Nov-12
REPORT NUMBER: 3641

LAB#- ECL027072-003 SAMPLE ID- 3984A Farm Flushed
LOCATION- Total
DATE SAMPLED- 11/7/2012 TIME SAMPLED- 7:42 SAMPLER- L. Bennet
DATE RECEIVED- 11/7/2012 TIME RECEIVED- 10:05
DELIVERED BY- M. Emery RECEIVED BY- AAA

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromium	EPA 200.8	11/13/2012 10:49	MAP	< 1.0	µg/L	1.0
Lead	EPA 200.8	11/13/2012 10:49	MAP	< 1.0	µg/L	1.0

ENVIRO-CHEM LABORATORIES, INC.

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FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 20-Nov-12
REPORT NUMBER: 3641

LAB#- ECL027072-004 SAMPLE ID- 3984A Farm Flushed
LOCATION- Dissolved
DATE SAMPLED- 11/7/2012 TIME SAMPLED- 7:42 SAMPLER- L. Bennet
DATE RECEIVED- 11/7/2012 TIME RECEIVED- 10:05
DELIVERED BY- M. Emery RECEIVED BY- AAA

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromate	EPA 218.7	11/14/2012 00:40	SES	0.022	ug/L Cr	0.020
Chromium	EPA 200.8	11/13/2012 10:49	MAP	< 1.0	µg/L	1.0
Lead	EPA 200.8	11/13/2012 10:49	MAP	2.3	µg/L	1.0

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12110707
Chesapeake GeoSciences, Inc., Columbia, MD
November 21, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3984A Farm-Flushed **Date/Time Sampled: 11/07/2012 07:42** **PSS Sample ID: 12110707-003**
Matrix: WATER **Date/Time Received: 11/07/2012 10:50**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Benzene	ND	ug/L	0.50		1	11/13/12	11/14/12 04:11	1014
Bromodichloromethane	ND	ug/L	0.50		1	11/13/12	11/14/12 04:11	1014
Bromoform	ND	ug/L	5.0		1	11/13/12	11/14/12 04:11	1014
Bromomethane	ND	ug/L	0.50		1	11/13/12	11/14/12 04:11	1014
Carbon Tetrachloride	ND	ug/L	0.50		1	11/13/12	11/14/12 04:11	1014
Chlorobenzene	ND	ug/L	0.50		1	11/13/12	11/14/12 04:11	1014
Chloroethane	ND	ug/L	0.50		1	11/13/12	11/14/12 04:11	1014
Chloroform	ND	ug/L	0.50		1	11/13/12	11/14/12 04:11	1014
Chloromethane	ND	ug/L	0.50		1	11/13/12	11/14/12 04:11	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0		1	11/13/12	11/14/12 04:11	1014
Dibromochloromethane	ND	ug/L	0.50		1	11/13/12	11/14/12 04:11	1014
1,2-Dibromoethane	ND	ug/L	0.50		1	11/13/12	11/14/12 04:11	1014
1,2-Dichlorobenzene	ND	ug/L	0.50		1	11/13/12	11/14/12 04:11	1014
1,3-Dichlorobenzene	ND	ug/L	0.50		1	11/13/12	11/14/12 04:11	1014
1,4-Dichlorobenzene	ND	ug/L	0.50		1	11/13/12	11/14/12 04:11	1014
Dichlorodifluoromethane	ND	ug/L	0.50		1	11/13/12	11/14/12 04:11	1014
1,1-Dichloroethane	ND	ug/L	0.50		1	11/13/12	11/14/12 04:11	1014
1,2-Dichloroethane	ND	ug/L	0.50		1	11/13/12	11/14/12 04:11	1014
cis-1,2-Dichloroethene	ND	ug/L	0.50		1	11/13/12	11/14/12 04:11	1014
trans-1,2-Dichloroethene	ND	ug/L	0.50		1	11/13/12	11/14/12 04:11	1014
1,1-Dichloroethene	ND	ug/L	0.50		1	11/13/12	11/14/12 04:11	1014
1,2-Dichloropropane	ND	ug/L	0.50		1	11/13/12	11/14/12 04:11	1014
Ethylbenzene	ND	ug/L	0.50		1	11/13/12	11/14/12 04:11	1014
Isopropylbenzene	ND	ug/L	0.50		1	11/13/12	11/14/12 04:11	1014
Methyl-t-butyl ether	ND	ug/L	0.50		1	11/13/12	11/14/12 04:11	1014
Naphthalene	ND	ug/L	0.50		1	11/13/12	11/14/12 04:11	1014
Styrene	ND	ug/L	0.50		1	11/13/12	11/14/12 04:11	1014
Diisopropyl ether	ND	ug/L	5.0		1	11/13/12	11/14/12 04:11	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50		1	11/13/12	11/14/12 04:11	1014
Tetrachloroethylene	ND	ug/L	0.50		1	11/13/12	11/14/12 04:11	1014

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12110707
Chesapeake GeoSciences, Inc., Columbia, MD
November 21, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3984A Farm-Flushed **Date/Time Sampled: 11/07/2012 07:42** **PSS Sample ID: 12110707-003**
Matrix: WATER **Date/Time Received: 11/07/2012 10:50**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Toluene	ND	ug/L	0.50		1	11/13/12	11/14/12 04:11	1014
1,2,4-Trichlorobenzene	ND	ug/L	0.50		1	11/13/12	11/14/12 04:11	1014
1,1,1-Trichloroethane	ND	ug/L	0.50		1	11/13/12	11/14/12 04:11	1014
1,1,2-Trichloroethane	ND	ug/L	0.50		1	11/13/12	11/14/12 04:11	1014
Trichloroethene	ND	ug/L	0.50		1	11/13/12	11/14/12 04:11	1014
Vinyl Chloride	ND	ug/L	0.50		1	11/13/12	11/14/12 04:11	1014
o-Xylene	ND	ug/L	0.50		1	11/13/12	11/14/12 04:11	1014
m,p-Xylenes	ND	ug/L	1.0		1	11/13/12	11/14/12 04:11	1014
tert-Butyl ethyl ether	ND	ug/L	5.0		1	11/13/12	11/14/12 04:11	1014
tert-Butyl alcohol	ND	ug/L	20		1	11/13/12	11/14/12 04:11	1014
tert-Amyl methyl ether	ND	ug/L	5.0		1	11/13/12	11/14/12 04:11	1014

MARYLAND DEPARTMENT OF THE ENVIRONMENT
1800 Washington Boulevard • Baltimore MD 21230
410-537-3000 • 1-800-633-6101 • www.mde.state.md.us

December 7, 2012

Mr. and Mrs. Nick and Andrea Choobineh
3985 Farm Lane
Monrovia MD 21770-8904

RE: DRINKING WATER SAMPLING RESULTS
MDE-FCHD Groundwater Investigation
Green Valley / Monrovia
Frederick County, Maryland

Dear Mr. and Mrs. Choobineh:

On November 13, 2012, the Frederick County Health Department (FCHD) and the Maryland Department of the Environment's (MDE) contractor, sampled your drinking water supply. A first draw sample and a flushed sample were collected from your household plumbing system to investigate the potential presence and source of certain contaminants.

The full laboratory analytical reports are attached. The results related to lead, chromium, methyl tertiary-butyl ether (MTBE), and pH are summarized below for reference. Note that all concentrations are presented as micrograms per liter (µg/L) (also known as parts per billion [ppb]). If the specific substance was not detected, the value is preceded by a "less than" symbol ("<"). Measurements of pH are unitless.

	First Draw	Flushed	MCL/Action Level/Recommended Range
Total Chromium	<1.0	<1.0	100
Total Lead	3.3	1.0	15
Chromate / Hexavalent Chromium	<0.020	<0.020	0.3
Dissolved Chromium	<1.0	<1.0	n/a
Dissolved Lead	1.3	<1.0	n/a
MTBE	<0.5	<0.5	20
pH	6.66	6.67	6.5 – 8.5

The federal and state maximum contaminant level (MCL) for total chromium is 100 µg/L. There is no separate federal or state MCL for hexavalent chromium or for dissolved chromium. The MDE uses 0.3 µg/L as an action level for hexavalent chromium, because that is MDE's conservative lifetime exposure health based standard. The federal and state action level that warrants additional investigation for total lead in public drinking water supplies is 15 µg/L, so the MDE follows this level

as an action level for private water supplies. There is no separate level for dissolved lead. For MTBE, the state action level that warrants corrective measures is 20 µg/L. There is no federal action level for MTBE. The US EPA recommended pH range for drinking water is 6.5 to 8.5.

Hexavalent chromium and lead are metals that can be hazardous to human health. Both metals can occur naturally in the environment or may be generated by human activity. Home water pumps, piping, and faucets also are known to be potential sources of lead in drinking water. MTBE is a compound associated with petroleum products.

The MDE and FCHD remind you to properly maintain any filtration equipment you use in your household and to follow all manufacturer recommendations. Additionally, both departments recommend that all private well users follow best practices to protect their wells and their family. This includes flushing your faucet for a few minutes prior to consuming the water, particularly after the water has not been used for an extended period of time.

For questions relating to private drinking water wells, please visit the MDE website at: http://bit.ly/MDEreswells, or call the Water Management Administration at 410-537-3780. If you would like more information about the ongoing petroleum cleanups in the Monrovia area at the former Green Valley Citgo or the Green Valley Garage, please visit the MDE website at: http://bit.ly/MDEoilcontrolremediation, or call the Oil Control Program at 410-537-3443. The FCHD also has information relating to well maintenance and contaminants on its website, including links to the EPA's information on lead and chromium, at: http://bit.ly/FCHDWaterQuality, or call them at 301-600-1717.

Sincerely,

Christopher Ralston, Administrator
Oil Control Program

CHR/nln

Enclosure

cc: Dr. Barbara Brookmyer, FCHD Health Officer
Mr. Jay Sakai, Director, MDE Water Management Administration
Mr. Horacio Tablada, Director, MDE Land Management Administration
Priscilla N. Carroll, Esq., Assistant Attorney General
Francesca Gibbs, Esq., Assistant Attorney General
M. Albert Figinski, Esq., Law Offices of Peter G. Angelos
Dwight Stone, Esq., Whiteford Taylor Preston

ENVIRO-CHEM LABORATORIES, INC.

47 Loveton Circle, Suite K • Sparks, Maryland 21152 410-472-1112

FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 24-Nov-12
REPORT NUMBER: 3653

LAB#- ECL027154-001 SAMPLE ID- 3985 Farm First Draw
LOCATION- Total
DATE SAMPLED- 11/13/2012 TIME SAMPLED- 15:00 SAMPLER- M. Emery
DATE RECEIVED- 11/14/2012 TIME RECEIVED- 11:05
DELIVERED BY- M. Emery RECEIVED BY- VPS

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromium	EPA 200.8	11/18/2012 10:03	MAP	< 1.0	µg/L	1.0
Lead	EPA 200.8	11/18/2012 10:03	MAP	3.3	µg/L	1.0

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FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 24-Nov-12
REPORT NUMBER: 3653

LAB#- ECL027154-002 SAMPLE ID- 3985 Farm First Draw
LOCATION- Dissolved
DATE SAMPLED- 11/13/2012 TIME SAMPLED- 15:00 SAMPLER- M. Emery
DATE RECEIVED- 11/14/2012 TIME RECEIVED- 11:05
DELIVERED BY- M. Emery RECEIVED BY- VPS

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromate	EPA 218.7	11/15/2012 11:41	SES	< 0.020	ug/L Cr	0.020
Chromium	EPA 200.8	11/18/2012 10:03	MAP	< 1.0	µg/L	1.0
Lead	EPA 200.8	11/18/2012 10:03	MAP	1.3	µg/L	1.0

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FAX 410-788-8723

PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12111404
Chesapeake GeoSciences, Inc., Columbia, MD
November 30, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3985 Farm-First Draw **Date/Time Sampled: 11/13/2012 15:00** **PSS Sample ID: 12111404-001**
Matrix: WATER **Date/Time Received: 11/14/2012 10:25**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Benzene	ND	ug/L	0.50		1	11/21/12	11/22/12 12:10	1014
Bromodichloromethane	ND	ug/L	0.50		1	11/21/12	11/22/12 12:10	1014
Bromoform	ND	ug/L	5.0		1	11/21/12	11/22/12 12:10	1014
Bromomethane	ND	ug/L	0.50		1	11/21/12	11/22/12 12:10	1014
Carbon Tetrachloride	ND	ug/L	0.50		1	11/21/12	11/22/12 12:10	1014
Chlorobenzene	ND	ug/L	0.50		1	11/21/12	11/22/12 12:10	1014
Chloroethane	ND	ug/L	0.50		1	11/21/12	11/22/12 12:10	1014
Chloroform	ND	ug/L	0.50		1	11/21/12	11/22/12 12:10	1014
Chloromethane	ND	ug/L	0.50		1	11/21/12	11/22/12 12:10	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0		1	11/21/12	11/22/12 12:10	1014
Dibromochloromethane	ND	ug/L	0.50		1	11/21/12	11/22/12 12:10	1014
1,2-Dibromoethane	ND	ug/L	0.50		1	11/21/12	11/22/12 12:10	1014
1,2-Dichlorobenzene	ND	ug/L	0.50		1	11/21/12	11/22/12 12:10	1014
1,3-Dichlorobenzene	ND	ug/L	0.50		1	11/21/12	11/22/12 12:10	1014
1,4-Dichlorobenzene	ND	ug/L	0.50		1	11/21/12	11/22/12 12:10	1014
Dichlorodifluoromethane	ND	ug/L	0.50		1	11/21/12	11/22/12 12:10	1014
1,1-Dichloroethane	ND	ug/L	0.50		1	11/21/12	11/22/12 12:10	1014
1,2-Dichloroethane	ND	ug/L	0.50		1	11/21/12	11/22/12 12:10	1014
cis-1,2-Dichloroethene	ND	ug/L	0.50		1	11/21/12	11/22/12 12:10	1014
trans-1,2-Dichloroethene	ND	ug/L	0.50		1	11/21/12	11/22/12 12:10	1014
1,1-Dichloroethene	ND	ug/L	0.50		1	11/21/12	11/22/12 12:10	1014
1,2-Dichloropropane	ND	ug/L	0.50		1	11/21/12	11/22/12 12:10	1014
Ethylbenzene	ND	ug/L	0.50		1	11/21/12	11/22/12 12:10	1014
Isopropylbenzene	ND	ug/L	0.50		1	11/21/12	11/22/12 12:10	1014
Methyl-t-butyl ether	ND	ug/L	0.50		1	11/21/12	11/22/12 12:10	1014
Naphthalene	ND	ug/L	0.50		1	11/21/12	11/22/12 12:10	1014
Styrene	ND	ug/L	0.50		1	11/21/12	11/22/12 12:10	1014
Diisopropyl ether	ND	ug/L	5.0		1	11/21/12	11/22/12 12:10	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50		1	11/21/12	11/22/12 12:10	1014
Tetrachloroethylene	ND	ug/L	0.50		1	11/21/12	11/22/12 12:10	1014

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12111404
Chesapeake GeoSciences, Inc., Columbia, MD
November 30, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3985 Farm-First Draw **Date/Time Sampled: 11/13/2012 15:00** **PSS Sample ID: 12111404-001**
Matrix: WATER **Date/Time Received: 11/14/2012 10:25**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Toluene	ND	ug/L	0.50		1	11/21/12	11/22/12 12:10	1014
1,2,4-Trichlorobenzene	ND	ug/L	0.50		1	11/21/12	11/22/12 12:10	1014
1,1,1-Trichloroethane	ND	ug/L	0.50		1	11/21/12	11/22/12 12:10	1014
1,1,2-Trichloroethane	ND	ug/L	0.50		1	11/21/12	11/22/12 12:10	1014
Trichloroethene	ND	ug/L	0.50		1	11/21/12	11/22/12 12:10	1014
Vinyl Chloride	ND	ug/L	0.50		1	11/21/12	11/22/12 12:10	1014
o-Xylene	ND	ug/L	0.50		1	11/21/12	11/22/12 12:10	1014
m,p-Xylenes	ND	ug/L	1.0		1	11/21/12	11/22/12 12:10	1014
tert-Butyl ethyl ether	ND	ug/L	5.0		1	11/21/12	11/22/12 12:10	1014
tert-Butyl alcohol	ND	ug/L	20		1	11/21/12	11/22/12 12:10	1014
tert-Amyl methyl ether	ND	ug/L	5.0		1	11/21/12	11/22/12 12:10	1014

ENVIRO-CHEM LABORATORIES, INC.

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FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 24-Nov-12

REPORT NUMBER: 3653

LAB#- ECL027154-003 SAMPLE ID- 3985 Farm Flushed
LOCATION- Total
DATE SAMPLED- 11/13/2012 TIME SAMPLED- 15:30 SAMPLER- M. Emery
DATE RECEIVED- 11/14/2012 TIME RECEIVED- 11:05
DELIVERED BY- M. Emery RECEIVED BY- VPS

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromium	EPA 200.8	11/18/2012 10:03	MAP	< 1.0	µg/L	1.0
Lead	EPA 200.8	11/18/2012 10:03	MAP	1.0	µg/L	1.0

ENVIRO-CHEM LABORATORIES, INC.

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FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 24-Nov-12

REPORT NUMBER: 3653

LAB#- ECL027154-004 SAMPLE ID- 3985 Farm Flushed
LOCATION- Dissolved
DATE SAMPLED- 11/13/2012 TIME SAMPLED- 15:30 SAMPLER- M. Emery
DATE RECEIVED- 11/14/2012 TIME RECEIVED- 11:05
DELIVERED BY- M. Emery RECEIVED BY- VPS

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromate	EPA 218.7	11/15/2012 12:38	SES	< 0.020	ug/L Cr	0.020
Chromium	EPA 200.8	11/18/2012 10:03	MAP	< 1.0	µg/L	1.0
Lead	EPA 200.8	11/18/2012 10:03	MAP	< 1.0	µg/L	1.0

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FAX 410-788-8723

PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12111404
Chesapeake GeoSciences, Inc., Columbia, MD
November 30, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3985 Farm-Flushed **Date/Time Sampled: 11/13/2012 15:30** **PSS Sample ID: 12111404-002**
Matrix: WATER **Date/Time Received: 11/14/2012 10:25**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Benzene	ND	ug/L	0.50		1	11/22/12	11/22/12 18:34	1014
Bromodichloromethane	ND	ug/L	0.50		1	11/22/12	11/22/12 18:34	1014
Bromoform	ND	ug/L	5.0		1	11/22/12	11/22/12 18:34	1014
Bromomethane	ND	ug/L	0.50		1	11/22/12	11/22/12 18:34	1014
Carbon Tetrachloride	ND	ug/L	0.50		1	11/22/12	11/22/12 18:34	1014
Chlorobenzene	ND	ug/L	0.50		1	11/22/12	11/22/12 18:34	1014
Chloroethane	ND	ug/L	0.50		1	11/22/12	11/22/12 18:34	1014
Chloroform	ND	ug/L	0.50		1	11/22/12	11/22/12 18:34	1014
Chloromethane	ND	ug/L	0.50		1	11/22/12	11/22/12 18:34	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0		1	11/22/12	11/22/12 18:34	1014
Dibromochloromethane	ND	ug/L	0.50		1	11/22/12	11/22/12 18:34	1014
1,2-Dibromoethane	ND	ug/L	0.50		1	11/22/12	11/22/12 18:34	1014
1,2-Dichlorobenzene	ND	ug/L	0.50		1	11/22/12	11/22/12 18:34	1014
1,3-Dichlorobenzene	ND	ug/L	0.50		1	11/22/12	11/22/12 18:34	1014
1,4-Dichlorobenzene	ND	ug/L	0.50		1	11/22/12	11/22/12 18:34	1014
Dichlorodifluoromethane	ND	ug/L	0.50		1	11/22/12	11/22/12 18:34	1014
1,1-Dichloroethane	ND	ug/L	0.50		1	11/22/12	11/22/12 18:34	1014
1,2-Dichloroethane	ND	ug/L	0.50		1	11/22/12	11/22/12 18:34	1014
cis-1,2-Dichloroethene	ND	ug/L	0.50		1	11/22/12	11/22/12 18:34	1014
trans-1,2-Dichloroethene	ND	ug/L	0.50		1	11/22/12	11/22/12 18:34	1014
1,1-Dichloroethene	ND	ug/L	0.50		1	11/22/12	11/22/12 18:34	1014
1,2-Dichloropropane	ND	ug/L	0.50		1	11/22/12	11/22/12 18:34	1014
Ethylbenzene	ND	ug/L	0.50		1	11/22/12	11/22/12 18:34	1014
Isopropylbenzene	ND	ug/L	0.50		1	11/22/12	11/22/12 18:34	1014
Methyl-t-butyl ether	ND	ug/L	0.50		1	11/22/12	11/22/12 18:34	1014
Naphthalene	ND	ug/L	0.50		1	11/22/12	11/22/12 18:34	1014
Styrene	ND	ug/L	0.50		1	11/22/12	11/22/12 18:34	1014
Diisopropyl ether	ND	ug/L	5.0		1	11/22/12	11/22/12 18:34	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50		1	11/22/12	11/22/12 18:34	1014
Tetrachloroethylene	ND	ug/L	0.50		1	11/22/12	11/22/12 18:34	1014

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12111404
Chesapeake GeoSciences, Inc., Columbia, MD
November 30, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3985 Farm-Flushed **Date/Time Sampled: 11/13/2012 15:30** **PSS Sample ID: 12111404-002**
Matrix: WATER **Date/Time Received: 11/14/2012 10:25**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Toluene	ND	ug/L	0.50		1	11/22/12	11/22/12 18:34	1014
1,2,4-Trichlorobenzene	ND	ug/L	0.50		1	11/22/12	11/22/12 18:34	1014
1,1,1-Trichloroethane	ND	ug/L	0.50		1	11/22/12	11/22/12 18:34	1014
1,1,2-Trichloroethane	ND	ug/L	0.50		1	11/22/12	11/22/12 18:34	1014
Trichloroethene	ND	ug/L	0.50		1	11/22/12	11/22/12 18:34	1014
Vinyl Chloride	ND	ug/L	0.50		1	11/22/12	11/22/12 18:34	1014
o-Xylene	ND	ug/L	0.50		1	11/22/12	11/22/12 18:34	1014
m,p-Xylenes	ND	ug/L	1.0		1	11/22/12	11/22/12 18:34	1014
tert-Butyl ethyl ether	ND	ug/L	5.0		1	11/22/12	11/22/12 18:34	1014
tert-Butyl alcohol	ND	ug/L	20		1	11/22/12	11/22/12 18:34	1014
tert-Amyl methyl ether	ND	ug/L	5.0		1	11/22/12	11/22/12 18:34	1014

MARYLAND DEPARTMENT OF THE ENVIRONMENT
1800 Washington Boulevard • Baltimore MD 21230
410-537-3000 • 1-800-633-6101 • www.mde.state.md.us

December 7, 2012

Mr. and Mrs. Dennis and Carol Gooding
3987 Farm Lane
Monrovia MD 21770-8904

RE: DRINKING WATER SAMPLING RESULTS
MDE-FCHD Groundwater Investigation
Green Valley / Monrovia
Frederick County, Maryland

Dear Mr. and Mrs. Gooding:

On November 9, 2012, the Frederick County Health Department (FCHD) and the Maryland Department of the Environment's (MDE) contractor, sampled your drinking water supply. A first draw sample and a flushed sample were collected from your household plumbing system to investigate the potential presence and source of certain contaminants.

The full laboratory analytical reports are attached. The results related to lead, chromium, methyl tertiary-butyl ether (MTBE), and pH are summarized below for reference. Note that all concentrations are presented as micrograms per liter (μg/L) (also known as parts per billion [ppb]). If the specific substance was not detected, the value is preceded by a "less than" symbol ("<"). Measurements of pH are unitless.

	First Draw	Flushed	MCL/Action Level/Recommended Range
Total Chromium	<1.0	<1.0	100
Total Lead	<1.0	3.3	15
Chromate / Hexavalent Chromium	<0.020	<0.020	0.3
Dissolved Chromium	<1.0	<1.0	n/a
Dissolved Lead	<1.0	1.7	n/a
MTBE	<0.5	<0.5	20
pH	7.32	6.45	6.5 – 8.5

The federal and state maximum contaminant level (MCL) for total chromium is 100 μg/L. There is no separate federal or state MCL for hexavalent chromium or for dissolved chromium. The MDE uses 0.3 μg/L as an action level for hexavalent chromium, because that is MDE's conservative lifetime exposure health based standard. The federal and state action level that warrants additional investigation for total lead in public drinking water supplies is 15 μg/L, so the MDE follows this level

as an action level for private water supplies. There is no separate level for dissolved lead. For MTBE, the state action level that warrants corrective measures is 20 µg/L. There is no federal action level for MTBE. The US EPA recommended pH range for drinking water is 6.5 to 8.5.

Hexavalent chromium and lead are metals that can be hazardous to human health. Both metals can occur naturally in the environment or may be generated by human activity. Home water pumps, piping, and faucets also are known to be potential sources of lead in drinking water. MTBE is a compound associated with petroleum products.

The MDE and FCHD remind you to properly maintain any filtration equipment you use in your household and to follow all manufacturer recommendations. Additionally, both departments recommend that all private well users follow best practices to protect their wells and their family. This includes flushing your faucet for a few minutes prior to consuming the water, particularly after the water has not been used for an extended period of time.

For questions relating to private drinking water wells, please visit the MDE website at: http://bit.ly/MDEreswells, or call the Water Management Administration at 410-537-3780. If you would like more information about the ongoing petroleum cleanups in the Monrovia area at the former Green Valley Citgo or the Green Valley Garage, please visit the MDE website at: http://bit.ly/MDEoilcontrolremediation, or call the Oil Control Program at 410-537-3443. The FCHD also has information relating to well maintenance and contaminants on its website, including links to the EPA's information on lead and chromium, at: http://bit.ly/FCHDWaterQuality, or call them at 301-600-1717.

Sincerely,

Christopher Ralston, Administrator
Oil Control Program

CHR/nln

Enclosure

cc: Dr. Barbara Brookmyer, FCHD Health Officer
Mr. Jay Sakai, Director, MDE Water Management Administration
Mr. Horacio Tablada, Director, MDE Land Management Administration
Priscilla N. Carroll, Esq., Assistant Attorney General
Francesca Gibbs, Esq., Assistant Attorney General
M. Albert Figinski, Esq., Law Offices of Peter G. Angelos
Dwight Stone, Esq., Whiteford Taylor Preston

ENVIRO-CHEM LABORATORIES, INC.

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FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 24-Nov-12

REPORT NUMBER: 3652

LAB#- ECL027121-001 SAMPLE ID- 3987 Farm-First Draw
LOCATION- Total
DATE SAMPLED- 11/9/2012 TIME SAMPLED- 14:00 SAMPLER- M. Emery
DATE RECEIVED- 11/9/2012 TIME RECEIVED- 16:05
DELIVERED BY- M. Emery RECEIVED BY- SES

Page 1 of 4

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromium	EPA 200.8	11/13/2012 10:49	MAP	< 1.0	µg/L	1.0
Lead	EPA 200.8	11/13/2012 10:49	MAP	< 1.0	µg/L	1.0

ENVIRO-CHEM LABORATORIES, INC.

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FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 24-Nov-12

REPORT NUMBER: 3652

LAB#- ECL027121-002 SAMPLE ID- 3987 Farm-First Draw
LOCATION- Dissolved
DATE SAMPLED- 11/9/2012 TIME SAMPLED- 14:00 SAMPLER- M. Emery
DATE RECEIVED- 11/9/2012 TIME RECEIVED- 16:05
DELIVERED BY- M. Emery RECEIVED BY- SES

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromate	EPA 218.7	11/12/2014 03:49	SES	< 0.020	ug/L Cr	0.020
Chromium	EPA 200.8	11/13/2012 10:49	MAP	< 1.0	µg/L	1.0
Lead	EPA 200.8	11/13/2012 10:49	MAP	< 1.0	µg/L	1.0

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BALTIMORE, MD 21228
410-747-8770
800-932-9047
FAX 410-788-8723

PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS
No: 12110937
Chesapeake GeoSciences, Inc., Columbia, MD
November 27, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3987 Farm-First Draw **Date/Time Sampled: 11/09/2012 14:00** **PSS Sample ID: 12110937-001**
Matrix: WATER **Date/Time Received: 11/09/2012 16:55**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Benzene	ND	ug/L	0.50		1	11/15/12	11/16/12 07:14	1014
Bromodichloromethane	ND	ug/L	0.50		1	11/15/12	11/16/12 07:14	1014
Bromoform	ND	ug/L	5.0		1	11/15/12	11/16/12 07:14	1014
Bromomethane	ND	ug/L	0.50		1	11/15/12	11/16/12 07:14	1014
Carbon Tetrachloride	ND	ug/L	0.50		1	11/15/12	11/16/12 07:14	1014
Chlorobenzene	ND	ug/L	0.50		1	11/15/12	11/16/12 07:14	1014
Chloroethane	ND	ug/L	0.50		1	11/15/12	11/16/12 07:14	1014
Chloroform	ND	ug/L	0.50		1	11/15/12	11/16/12 07:14	1014
Chloromethane	ND	ug/L	0.50		1	11/15/12	11/16/12 07:14	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0		1	11/15/12	11/16/12 07:14	1014
Dibromochloromethane	ND	ug/L	0.50		1	11/15/12	11/16/12 07:14	1014
1,2-Dibromoethane	ND	ug/L	0.50		1	11/15/12	11/16/12 07:14	1014
1,2-Dichlorobenzene	ND	ug/L	0.50		1	11/15/12	11/16/12 07:14	1014
1,3-Dichlorobenzene	ND	ug/L	0.50		1	11/15/12	11/16/12 07:14	1014
1,4-Dichlorobenzene	ND	ug/L	0.50		1	11/15/12	11/16/12 07:14	1014
Dichlorodifluoromethane	ND	ug/L	0.50		1	11/15/12	11/16/12 07:14	1014
1,1-Dichloroethane	ND	ug/L	0.50		1	11/15/12	11/16/12 07:14	1014
1,2-Dichloroethane	ND	ug/L	0.50		1	11/15/12	11/16/12 07:14	1014
cis-1,2-Dichloroethene	ND	ug/L	0.50		1	11/15/12	11/16/12 07:14	1014
trans-1,2-Dichloroethene	ND	ug/L	0.50		1	11/15/12	11/16/12 07:14	1014
1,1-Dichloroethene	ND	ug/L	0.50		1	11/15/12	11/16/12 07:14	1014
1,2-Dichloropropane	ND	ug/L	0.50		1	11/15/12	11/16/12 07:14	1014
Ethylbenzene	ND	ug/L	0.50		1	11/15/12	11/16/12 07:14	1014
Isopropylbenzene	ND	ug/L	0.50		1	11/15/12	11/16/12 07:14	1014
Methyl-t-butyl ether	ND	ug/L	0.50		1	11/15/12	11/16/12 07:14	1014
Naphthalene	ND	ug/L	0.50		1	11/15/12	11/16/12 07:14	1014
Styrene	ND	ug/L	0.50		1	11/15/12	11/16/12 07:14	1014
Diisopropyl ether	ND	ug/L	5.0		1	11/15/12	11/16/12 07:14	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50		1	11/15/12	11/16/12 07:14	1014
Tetrachloroethylene	ND	ug/L	0.50		1	11/15/12	11/16/12 07:14	1014

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12110937
Chesapeake GeoSciences, Inc., Columbia, MD
November 27, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3987 Farm-First Draw **Date/Time Sampled: 11/09/2012 14:00** **PSS Sample ID: 12110937-001**
Matrix: WATER **Date/Time Received: 11/09/2012 16:55**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Toluene	ND	ug/L	0.50		1	11/15/12	11/16/12 07:14	1014
1,2,4-Trichlorobenzene	ND	ug/L	0.50		1	11/15/12	11/16/12 07:14	1014
1,1,1-Trichloroethane	ND	ug/L	0.50		1	11/15/12	11/16/12 07:14	1014
1,1,2-Trichloroethane	ND	ug/L	0.50		1	11/15/12	11/16/12 07:14	1014
Trichloroethene	ND	ug/L	0.50		1	11/15/12	11/16/12 07:14	1014
Vinyl Chloride	ND	ug/L	0.50		1	11/15/12	11/16/12 07:14	1014
o-Xylene	ND	ug/L	0.50		1	11/15/12	11/16/12 07:14	1014
m,p-Xylenes	ND	ug/L	1.0		1	11/15/12	11/16/12 07:14	1014
tert-Butyl ethyl ether	ND	ug/L	5.0		1	11/15/12	11/16/12 07:14	1014
tert-Butyl alcohol	ND	ug/L	20		1	11/15/12	11/16/12 07:14	1014
tert-Amyl methyl ether	ND	ug/L	5.0		1	11/15/12	11/16/12 07:14	1014

ENVIRO-CHEM LABORATORIES, INC.

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FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 24-Nov-12

REPORT NUMBER: 3652

LAB#- ECL027121-003 SAMPLE ID- 3987 Farm-Flushed
LOCATION- Total
DATE SAMPLED- 11/9/2012 TIME SAMPLED- 14:35 SAMPLER- M. Emery
DATE RECEIVED- 11/9/2012 TIME RECEIVED- 16:05
DELIVERED BY- M. Emery RECEIVED BY- SES

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromium	EPA 200.8	11/13/2012 10:49	MAP	< 1.0	µg/L	1.0
Lead	EPA 200.8	11/13/2012 10:49	MAP	3.3	µg/L	1.0

ENVIRO-CHEM
LABORATORIES, INC.

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FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 24-Nov-12

REPORT NUMBER: 3652

LAB#- ECL027121-004 SAMPLE ID- 3987 Farm-Flushed
LOCATION- Dissolved
DATE SAMPLED- 11/9/2012 TIME SAMPLED- 14:35 SAMPLER- M. Emery
DATE RECEIVED- 11/9/2012 TIME RECEIVED- 16:05
DELIVERED BY- M. Emery RECEIVED BY- SES

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromate	EPA 218.7	11/12/2014 04:08	SES	< 0.020	ug/L Cr	0.020
Chromium	EPA 200.8	11/13/2012 10:49	MAP	< 1.0	µg/L	1.0
Lead	EPA 200.8	11/13/2012 10:49	MAP	1.7	µg/L	1.0

LABORATORY DIRECTOR

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12110937
Chesapeake GeoSciences, Inc., Columbia, MD
November 27, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3987 Farm-Flushed **Date/Time Sampled: 11/09/2012 14:35** **PSS Sample ID: 12110937-002**
Matrix: WATER **Date/Time Received: 11/09/2012 16:55**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Benzene	ND	ug/L	0.50		1	11/15/12	11/16/12 07:54	1014
Bromodichloromethane	ND	ug/L	0.50		1	11/15/12	11/16/12 07:54	1014
Bromoform	ND	ug/L	5.0		1	11/15/12	11/16/12 07:54	1014
Bromomethane	ND	ug/L	0.50		1	11/15/12	11/16/12 07:54	1014
Carbon Tetrachloride	ND	ug/L	0.50		1	11/15/12	11/16/12 07:54	1014
Chlorobenzene	ND	ug/L	0.50		1	11/15/12	11/16/12 07:54	1014
Chloroethane	ND	ug/L	0.50		1	11/15/12	11/16/12 07:54	1014
Chloroform	ND	ug/L	0.50		1	11/15/12	11/16/12 07:54	1014
Chloromethane	ND	ug/L	0.50		1	11/15/12	11/16/12 07:54	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0		1	11/15/12	11/16/12 07:54	1014
Dibromochloromethane	ND	ug/L	0.50		1	11/15/12	11/16/12 07:54	1014
1,2-Dibromoethane	ND	ug/L	0.50		1	11/15/12	11/16/12 07:54	1014
1,2-Dichlorobenzene	ND	ug/L	0.50		1	11/15/12	11/16/12 07:54	1014
1,3-Dichlorobenzene	ND	ug/L	0.50		1	11/15/12	11/16/12 07:54	1014
1,4-Dichlorobenzene	ND	ug/L	0.50		1	11/15/12	11/16/12 07:54	1014
Dichlorodifluoromethane	ND	ug/L	0.50		1	11/15/12	11/16/12 07:54	1014
1,1-Dichloroethane	ND	ug/L	0.50		1	11/15/12	11/16/12 07:54	1014
1,2-Dichloroethane	ND	ug/L	0.50		1	11/15/12	11/16/12 07:54	1014
cis-1,2-Dichloroethene	ND	ug/L	0.50		1	11/15/12	11/16/12 07:54	1014
trans-1,2-Dichloroethene	ND	ug/L	0.50		1	11/15/12	11/16/12 07:54	1014
1,1-Dichloroethene	ND	ug/L	0.50		1	11/15/12	11/16/12 07:54	1014
1,2-Dichloropropane	ND	ug/L	0.50		1	11/15/12	11/16/12 07:54	1014
Ethylbenzene	ND	ug/L	0.50		1	11/15/12	11/16/12 07:54	1014
Isopropylbenzene	ND	ug/L	0.50		1	11/15/12	11/16/12 07:54	1014
Methyl-t-butyl ether	ND	ug/L	0.50		1	11/15/12	11/16/12 07:54	1014
Naphthalene	ND	ug/L	0.50		1	11/15/12	11/16/12 07:54	1014
Styrene	ND	ug/L	0.50		1	11/15/12	11/16/12 07:54	1014
Diisopropyl ether	ND	ug/L	5.0		1	11/15/12	11/16/12 07:54	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50		1	11/15/12	11/16/12 07:54	1014
Tetrachloroethylene	ND	ug/L	0.50		1	11/15/12	11/16/12 07:54	1014

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12110937
Chesapeake GeoSciences, Inc., Columbia, MD
November 27, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3987 Farm-Flushed **Date/Time Sampled: 11/09/2012 14:35** **PSS Sample ID: 12110937-002**
Matrix: WATER **Date/Time Received: 11/09/2012 16:55**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Toluene	ND	ug/L	0.50		1	11/15/12	11/16/12 07:54	1014
1,2,4-Trichlorobenzene	ND	ug/L	0.50		1	11/15/12	11/16/12 07:54	1014
1,1,1-Trichloroethane	ND	ug/L	0.50		1	11/15/12	11/16/12 07:54	1014
1,1,2-Trichloroethane	ND	ug/L	0.50		1	11/15/12	11/16/12 07:54	1014
Trichloroethene	ND	ug/L	0.50		1	11/15/12	11/16/12 07:54	1014
Vinyl Chloride	ND	ug/L	0.50		1	11/15/12	11/16/12 07:54	1014
o-Xylene	ND	ug/L	0.50		1	11/15/12	11/16/12 07:54	1014
m,p-Xylenes	ND	ug/L	1.0		1	11/15/12	11/16/12 07:54	1014
tert-Butyl ethyl ether	ND	ug/L	5.0		1	11/15/12	11/16/12 07:54	1014
tert-Butyl alcohol	ND	ug/L	20		1	11/15/12	11/16/12 07:54	1014
tert-Amyl methyl ether	ND	ug/L	5.0		1	11/15/12	11/16/12 07:54	1014

MARYLAND DEPARTMENT OF THE ENVIRONMENT

1800 Washington Boulevard • Baltimore MD 21230
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Martin O'Malley
Governor

Anthony G. Brown
Lieutenant Governor

Robert M. Summers, Ph.D.
Secretary

November 16, 2012

Ms. Sherri L. Purkable
3989 Farm Lane
Monrovia MD 21770

RE: DRINKING WATER SAMPLING RESULTS
MDE-FCHD Groundwater Investigation
Green Valley / Monrovia
Frederick County, Maryland

Dear Ms. Purkable:

On October 19, 2012, the Frederick County Health Department (FCHD) and the Maryland Department of the Environment's (MDE) contractor, sampled your drinking water supply. A first draw sample and a flushed sample were collected from your household plumbing system to investigate the potential presence and source of certain contaminants.

The full laboratory analytical reports are attached. The results related to lead, chromium, methyl tertiary butyl ether (MTBE), and pH are summarized below for reference. Note that all concentrations are presented as micrograms per liter (µg/L) (also known as parts per billion (ppb)). If the specific substance was not detected, the value is preceded by a "less than" symbol ("<"). Measurements of pH are unitless.

	First Draw	Flushed	MCL/Action Level/Recommended Range
Total Chromium	<1.0	<1.0	100
Total Lead	1.2	<1.0	15
Chromate / Hexavalent Chromium	<0.020	<0.020	0.3
Dissolved Chromium	<1.0	<1.0	n/a
Dissolved Lead	<1.0	<1.0	n/a
MTBE	<0.5	<0.5	20
pH	6.45	6.42	6.5 – 8.5

The federal and state maximum contaminant level (MCL) for total chromium is 100 µg/L. There is no separate federal or state MCL for hexavalent chromium or for dissolved chromium. The MDE uses 0.3 µg/L as an action level for hexavalent chromium, because that is MDE's conservative lifetime exposure health based standard. The federal and state action level that warrants additional investigation for total lead in public drinking water supplies is 15 µg/L, so the MDE follows this level

as an action level for private water supplies. There is no separate level for dissolved lead. For MTBE, the state action level that warrants corrective measures is 20 µg/L. There is no federal action level for MTBE. The US EPA recommended pH range for drinking water is 6.5 to 8.5.

Hexavalent chromium and lead are metals that can be hazardous to human health. Both metals can occur naturally in the environment or may be generated by human activity. Home water pumps, piping and faucets also are known to be potential sources of lead in drinking water. MTBE is a compound associated with petroleum products.

The MDE and FCHD remind you to properly maintain any filtration equipment you use in your household and to follow all manufacturer recommendations. Additionally, both departments recommend that all private well users follow best practices to protect their wells and their family. This includes flushing your faucet for a few minutes prior to consuming the water, particularly after the water has not been used for an extended period of time.

For questions relating to private drinking water wells, please visit the MDE website at: http://bit.ly/MDEreswells, or call the Water Management Administration at 410-537-3780. If you would like more information about the ongoing petroleum cleanups in the Monrovia area at the former Green Valley Citgo or the Green Valley Garage, please visit the MDE website at: http://bit.ly/MDEoilcontrolremediation, or call the Oil Control Program at 410-537-3443. The FCHD also has information relating to well maintenance and contaminants on its website, including links to the EPA's information on lead and chromium, at: http://bit.ly/FCHDWaterQuality, or call them at 301-600-1717.

Sincerely,

Christopher Ralston, Administrator
Oil Control Program

CHR/nln

Enclosure

cc: Dr. Barbara Brookmyer, FCHD Health Officer
Mr. Jay Sakai, Director, MDE Water Management Administration
Mr. Horacio Tablada, Director, MDE Land Management Administration
Priscilla Carroll, Esq., Assistant Attorney General
Francesca Gibbs, Esq., Assistant Attorney General
M. Albert Figinski, Esq., Law Offices of Peter G. Angelos
Dwight Stone, Esq., Whiteford Taylor Preston

ENVIRO-CHEM LABORATORIES, INC.

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FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 30-Oct-12
REPORT NUMBER: 3416

LAB#- ECL026927-001 SAMPLE ID- 3989 Farm-First Draw
LOCATION- Total
DATE SAMPLED- 10/19/2012 TIME SAMPLED- 6:10 SAMPLER- M. Emery
DATE RECEIVED- 10/19/2012 TIME RECEIVED- 9:20
DELIVERED BY- M. Emery RECEIVED BY- VPS

Page 1 of 6

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromium	EPA 200.8	10/23/2012 13:40	CHK	< 1.0	µg/L	1.0
Lead	EPA 200.8	10/23/2012 13:40	CHK	1.2	µg/L	1.0

ENVIRO-CHEM LABORATORIES, INC.

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FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 30-Oct-12
REPORT NUMBER: 3416

LAB#- ECL026927-002 SAMPLE ID- 3989 Farm-First Draw
LOCATION- Dissolved
DATE SAMPLED- 10/19/2012 TIME SAMPLED- 6:10 SAMPLER- M. Emery
DATE RECEIVED- 10/19/2012 TIME RECEIVED- 9:20
DELIVERED BY- M. Emery RECEIVED BY- VPS

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromate	EPA 218.7	10/21/2012 01:06	SES	< 0.020	ug/L Cr	0.020
Chromium	EPA 200.8	10/23/2012 13:40	CHK	< 1.0	µg/L	1.0
Lead	EPA 200.8	10/23/2012 13:40	CHK	< 1.0	µg/L	1.0

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12101902
Chesapeake GeoSciences, Inc., Columbia, MD
November 2, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3989 Farm-First Draw **Date/Time Sampled: 10/19/2012 06:10** **PSS Sample ID: 12101902-001**
Matrix: WATER **Date/Time Received: 10/19/2012 10:05**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Benzene	ND	ug/L	0.50		1	10/26/12	10/26/12 12:47	1014
Bromodichloromethane	ND	ug/L	0.50		1	10/26/12	10/26/12 12:47	1014
Bromoform	ND	ug/L	5.0		1	10/26/12	10/26/12 12:47	1014
Bromomethane	ND	ug/L	0.50		1	10/26/12	10/26/12 12:47	1014
Carbon Tetrachloride	ND	ug/L	0.50		1	10/26/12	10/26/12 12:47	1014
Chlorobenzene	ND	ug/L	0.50		1	10/26/12	10/26/12 12:47	1014
Chloroethane	ND	ug/L	0.50		1	10/26/12	10/26/12 12:47	1014
Chloroform	ND	ug/L	0.50		1	10/26/12	10/26/12 12:47	1014
Chloromethane	ND	ug/L	0.50		1	10/26/12	10/26/12 12:47	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0		1	10/26/12	10/26/12 12:47	1014
Dibromochloromethane	ND	ug/L	0.50		1	10/26/12	10/26/12 12:47	1014
1,2-Dibromoethane	ND	ug/L	0.50		1	10/26/12	10/26/12 12:47	1014
1,2-Dichlorobenzene	ND	ug/L	0.50		1	10/26/12	10/26/12 12:47	1014
1,3-Dichlorobenzene	ND	ug/L	0.50		1	10/26/12	10/26/12 12:47	1014
1,4-Dichlorobenzene	ND	ug/L	0.50		1	10/26/12	10/26/12 12:47	1014
Dichlorodifluoromethane	ND	ug/L	0.50		1	10/26/12	10/26/12 12:47	1014
1,1-Dichloroethane	ND	ug/L	0.50		1	10/26/12	10/26/12 12:47	1014
1,2-Dichloroethane	ND	ug/L	0.50		1	10/26/12	10/26/12 12:47	1014
cis-1,2-Dichloroethene	ND	ug/L	0.50		1	10/26/12	10/26/12 12:47	1014
trans-1,2-Dichloroethene	ND	ug/L	0.50		1	10/26/12	10/26/12 12:47	1014
1,1-Dichloroethene	ND	ug/L	0.50		1	10/26/12	10/26/12 12:47	1014
1,2-Dichloropropane	ND	ug/L	0.50		1	10/26/12	10/26/12 12:47	1014
Ethylbenzene	ND	ug/L	0.50		1	10/26/12	10/26/12 12:47	1014
Isopropylbenzene	ND	ug/L	0.50		1	10/26/12	10/26/12 12:47	1014
Methyl-t-butyl ether	ND	ug/L	0.50		1	10/26/12	10/26/12 12:47	1014
Naphthalene	ND	ug/L	0.50		1	10/26/12	10/26/12 12:47	1014
Styrene	ND	ug/L	0.50		1	10/26/12	10/26/12 12:47	1014
Diisopropyl ether	ND	ug/L	5.0		1	10/26/12	10/26/12 12:47	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50		1	10/26/12	10/26/12 12:47	1014
Tetrachloroethylene	ND	ug/L	0.50		1	10/26/12	10/26/12 12:47	1014

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12101902
Chesapeake GeoSciences, Inc., Columbia, MD
November 2, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3989 Farm-First Draw **Date/Time Sampled: 10/19/2012 06:10** **PSS Sample ID: 12101902-001**
Matrix: WATER **Date/Time Received: 10/19/2012 10:05**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Toluene	ND	ug/L	0.50		1	10/26/12	10/26/12 12:47	1014
1,2,4-Trichlorobenzene	ND	ug/L	0.50		1	10/26/12	10/26/12 12:47	1014
1,1,1-Trichloroethane	ND	ug/L	0.50		1	10/26/12	10/26/12 12:47	1014
1,1,2-Trichloroethane	ND	ug/L	0.50		1	10/26/12	10/26/12 12:47	1014
Trichloroethene	ND	ug/L	0.50		1	10/26/12	10/26/12 12:47	1014
Vinyl Chloride	ND	ug/L	0.50		1	10/26/12	10/26/12 12:47	1014
o-Xylene	ND	ug/L	0.50		1	10/26/12	10/26/12 12:47	1014
m,p-Xylenes	ND	ug/L	1.0		1	10/26/12	10/26/12 12:47	1014
tert-Butyl ethyl ether	ND	ug/L	5.0		1	10/26/12	10/26/12 12:47	1014
tert-Butyl alcohol	ND	ug/L	20		1	10/26/12	10/26/12 12:47	1014
tert-Amyl methyl ether	ND	ug/L	5.0		1	10/26/12	10/26/12 12:47	1014

ENVIRO-CHEM LABORATORIES, INC.

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FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 30-Oct-12
REPORT NUMBER: 3416

LAB#- ECL026927-003 SAMPLE ID- 3989 Farm-Flushed
LOCATION- Total
DATE SAMPLED- 10/19/2012 TIME SAMPLED- 6:40 SAMPLER- M. Emery
DATE RECEIVED- 10/19/2012 TIME RECEIVED- 9:20
DELIVERED BY- M. Emery RECEIVED BY- VPS

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromium	EPA 200.8	10/23/2012 13:40	CHK	< 1.0	µg/L	1.0
Lead	EPA 200.8	10/23/2012 13:40	CHK	< 1.0	µg/L	1.0

ENVIRO-CHEM LABORATORIES, INC.

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FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 30-Oct-12
REPORT NUMBER: 3416

LAB#- ECL026927-004 SAMPLE ID- 3989 Farm-Flushed
LOCATION- Dissolved
DATE SAMPLED- 10/19/2012 TIME SAMPLED- 6:40 SAMPLER- M. Emery
DATE RECEIVED- 10/19/2012 TIME RECEIVED- 9:20
DELIVERED BY- M. Emery RECEIVED BY- VPS

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromate	EPA 218.7	10/21/2012 01:25	SES	< 0.020	ug/L Cr	0.020
Chromium	EPA 200.8	10/23/2012 13:40	CHK	< 1.0	µg/L	1.0
Lead	EPA 200.8	10/23/2012 13:40	CHK	< 1.0	µg/L	1.0

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12101902

Chesapeake GeoSciences, Inc., Columbia, MD

November 2, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3989 Farm-Flushed **Date/Time Sampled: 10/19/2012 06:40** **PSS Sample ID: 12101902-002**

Matrix: WATER **Date/Time Received: 10/19/2012 10:05**

VOC in Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Benzene	ND	ug/L	0.50		1	10/26/12	10/26/12 13:28	1014
Bromodichloromethane	ND	ug/L	0.50		1	10/26/12	10/26/12 13:28	1014
Bromoform	ND	ug/L	5.0		1	10/26/12	10/26/12 13:28	1014
Bromomethane	ND	ug/L	0.50		1	10/26/12	10/26/12 13:28	1014
Carbon Tetrachloride	ND	ug/L	0.50		1	10/26/12	10/26/12 13:28	1014
Chlorobenzene	ND	ug/L	0.50		1	10/26/12	10/26/12 13:28	1014
Chloroethane	ND	ug/L	0.50		1	10/26/12	10/26/12 13:28	1014
Chloroform	ND	ug/L	0.50		1	10/26/12	10/26/12 13:28	1014
Chloromethane	ND	ug/L	0.50		1	10/26/12	10/26/12 13:28	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0		1	10/26/12	10/26/12 13:28	1014
Dibromochloromethane	ND	ug/L	0.50		1	10/26/12	10/26/12 13:28	1014
1,2-Dibromoethane	ND	ug/L	0.50		1	10/26/12	10/26/12 13:28	1014
1,2-Dichlorobenzene	ND	ug/L	0.50		1	10/26/12	10/26/12 13:28	1014
1,3-Dichlorobenzene	ND	ug/L	0.50		1	10/26/12	10/26/12 13:28	1014
1,4-Dichlorobenzene	ND	ug/L	0.50		1	10/26/12	10/26/12 13:28	1014
Dichlorodifluoromethane	ND	ug/L	0.50		1	10/26/12	10/26/12 13:28	1014
1,1-Dichloroethane	ND	ug/L	0.50		1	10/26/12	10/26/12 13:28	1014
1,2-Dichloroethane	ND	ug/L	0.50		1	10/26/12	10/26/12 13:28	1014
cis-1,2-Dichloroethene	ND	ug/L	0.50		1	10/26/12	10/26/12 13:28	1014
trans-1,2-Dichloroethene	ND	ug/L	0.50		1	10/26/12	10/26/12 13:28	1014
1,1-Dichloroethene	ND	ug/L	0.50		1	10/26/12	10/26/12 13:28	1014
1,2-Dichloropropane	ND	ug/L	0.50		1	10/26/12	10/26/12 13:28	1014
Ethylbenzene	ND	ug/L	0.50		1	10/26/12	10/26/12 13:28	1014
Isopropylbenzene	ND	ug/L	0.50		1	10/26/12	10/26/12 13:28	1014
Methyl-t-butyl ether	ND	ug/L	0.50		1	10/26/12	10/26/12 13:28	1014
Naphthalene	ND	ug/L	0.50		1	10/26/12	10/26/12 13:28	1014
Styrene	ND	ug/L	0.50		1	10/26/12	10/26/12 13:28	1014
Diisopropyl ether	ND	ug/L	5.0		1	10/26/12	10/26/12 13:28	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50		1	10/26/12	10/26/12 13:28	1014
Tetrachloroethylene	ND	ug/L	0.50		1	10/26/12	10/26/12 13:28	1014

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12101902
Chesapeake GeoSciences, Inc., Columbia, MD
November 2, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3989 Farm-Flushed **Date/Time Sampled: 10/19/2012 06:40** **PSS Sample ID: 12101902-002**
Matrix: WATER **Date/Time Received: 10/19/2012 10:05**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Toluene	ND	ug/L	0.50		1	10/26/12	10/26/12 13:28	1014
1,2,4-Trichlorobenzene	ND	ug/L	0.50		1	10/26/12	10/26/12 13:28	1014
1,1,1-Trichloroethane	ND	ug/L	0.50		1	10/26/12	10/26/12 13:28	1014
1,1,2-Trichloroethane	ND	ug/L	0.50		1	10/26/12	10/26/12 13:28	1014
Trichloroethene	ND	ug/L	0.50		1	10/26/12	10/26/12 13:28	1014
Vinyl Chloride	ND	ug/L	0.50		1	10/26/12	10/26/12 13:28	1014
o-Xylene	ND	ug/L	0.50		1	10/26/12	10/26/12 13:28	1014
m,p-Xylenes	ND	ug/L	1.0		1	10/26/12	10/26/12 13:28	1014
tert-Butyl ethyl ether	ND	ug/L	5.0		1	10/26/12	10/26/12 13:28	1014
tert-Butyl alcohol	ND	ug/L	20		1	10/26/12	10/26/12 13:28	1014
tert-Amyl methyl ether	ND	ug/L	5.0		1	10/26/12	10/26/12 13:28	1014

MARYLAND DEPARTMENT OF THE ENVIRONMENT
1800 Washington Boulevard • Baltimore MD 21230
410-537-3000 • 1-800-633-6101 • www.mde.state.md.us

Martin O'Malley
Governor

Anthony G. Brown
Lieutenant Governor

Robert M. Summers, Ph.D.
Secretary

December 7, 2012

Ms. Kitty Bradley
3990 Farm Lane
Monrovia MD 21770

RE: DRINKING WATER SAMPLING RESULTS
MDE-FCHD Groundwater Investigation
Green Valley / Monrovia
Frederick County, Maryland

Dear Ms. Bradley:

On November 7, 2012, the Frederick County Health Department (FCHD) and the Maryland Department of the Environment's (MDE) contractor, sampled your drinking water supply. A first draw sample and a flushed sample were collected from your household plumbing system to investigate the potential presence and source of certain contaminants.

The full laboratory analytical reports are attached. The results related to lead, chromium, methyl tertiary-butyl ether (MTBE), and pH are summarized below for reference. Note that all concentrations are presented as micrograms per liter (μg/L) (also known as parts per billion [ppb]). If the specific substance was not detected, the value is preceded by a "less than" symbol ("<"). Measurements of pH are unitless.

	First Draw	**Flushed**	**MCL/Action Level/Recommended Range**
Total Chromium	<1.0	<1.0	100
Total Lead	2.9	<1.0	15
Chromate / Hexavalent Chromium	<0.020	<0.020	0.3
Dissolved Chromium	<1.0	<1.0	n/a
Dissolved Lead	1.0	<1.0	n/a
MTBE	<0.5	610	20
pH	6.71	6.25	6.5 – 8.5

The federal and state maximum contaminant level (MCL) for total chromium is 100 μg/L. There is no separate federal or state MCL for hexavalent chromium or for dissolved chromium. The MDE uses 0.3 μg/L as an action level for hexavalent chromium, because that is MDE's conservative lifetime exposure health based standard. The federal and state action level that warrants additional investigation for total lead in public drinking water supplies is 15 μg/L, so the MDE follows this level

as an action level for private water supplies. There is no separate level for dissolved lead. For MTBE, the state action level that warrants corrective measures is 20 μg/L. There is no federal action level for MTBE. There is no federal or state MCL or action level for tertiary-butyl alcohol (TBA), diisopropyl ether (DIPE), or tertiary-amyl methyl ether (TAME). The US EPA recommended pH range for drinking water is 6.5 to 8.5.

Hexavalent chromium and lead are metals that can be hazardous to human health. Both metals can occur naturally in the environment or may be generated by human activity. Home water pumps, piping, and faucets also are known to be potential sources of lead in drinking water. MTBE is a compound associated with petroleum products. TBA is an oxygenate that is added to gasoline and is also a breakdown product of MTBE. DIPE and TAME are also oxygenates that are added to gasoline.

The MDE and FCHD remind you to properly maintain any filtration equipment you use in your household and to follow all manufacturer recommendations. Additionally, both departments recommend that all private well users follow best practices to protect their wells and their family. This includes flushing your faucet for a few minutes prior to consuming the water, particularly after the water has not been used for an extended period of time.

For questions relating to private drinking water wells, please visit the MDE website at: http://bit.ly/MDEreswells, or call the Water Management Administration at 410-537-3780. If you would like more information about the ongoing petroleum cleanups in the Monrovia area at the former Green Valley Citgo or the Green Valley Garage, please visit the MDE website at: http://bit.ly/MDEoilcontrolremediation, or call the Oil Control Program at 410-537-3443. The FCHD also has information relating to well maintenance and contaminants on its website, including links to the EPA's information on lead and chromium, at: http://bit.ly/FCHDWaterQuality, or call them at 301-600-1717.

Sincerely,

Christopher Ralston, Administrator
Oil Control Program

CHR/nln

Enclosure

cc: Dr. Barbara Brookmyer, FCHD Health Officer
Mr. Jay Sakai, Director, MDE Water Management Administration
Mr. Horacio Tablada, Director, MDE Land Management Administration
Priscilla N. Carroll, Esq., Assistant Attorney General
Francesca Gibbs, Esq., Assistant Attorney General
M. Albert Figinski, Esq., Law Offices of Peter G. Angelos
Dwight Stone, Esq., Whiteford Taylor Preston

ENVIRO-CHEM LABORATORIES, INC.

47 Loveton Circle, Suite K • Sparks, Maryland 21152 410-472-1112

FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 20-Nov-12
REPORT NUMBER: 3641

LAB#- ECL027072-005 SAMPLE ID- 3990 Farm First Draw
LOCATION- Total
DATE SAMPLED- 11/7/2012 TIME SAMPLED- 8:07 SAMPLER- L. Bennet
DATE RECEIVED- 11/7/2012 TIME RECEIVED- 10:05
DELIVERED BY- M. Emery RECEIVED BY- AAA

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromium	EPA 200.8	11/13/2012 10:49	MAP	<1.0	µg/L	1.0
Lead	EPA 200.8	11/13/2012 10:49	MAP	2.9	µg/L	1.0

ENVIRO-CHEM LABORATORIES, INC.

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FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 20-Nov-12
REPORT NUMBER: 3641

LAB#- ECL027072-006 SAMPLE ID- 3990 Farm First Draw
LOCATION- Dissolved
DATE SAMPLED- 11/7/2012 TIME SAMPLED- 8:07 SAMPLER- L. Bennet
DATE RECEIVED- 11/7/2012 TIME RECEIVED- 10:05
DELIVERED BY- M. Emery RECEIVED BY- AAA

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromate	EPA 218.7	11/14/2012 00:59	SES	< 0.020	ug/L Cr	0.020
Chromium	EPA 200.8	11/13/2012 10:49	MAP	< 1.0	µg/L	1.0
Lead	EPA 200.8	11/13/2012 10:49	MAP	1.0	µg/L	1.0

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12110707
Chesapeake GeoSciences, Inc., Columbia, MD
November 21, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3990 Farm-First Draw **Date/Time Sampled: 11/07/2012 08:07** **PSS Sample ID: 12110707-004**
Matrix: WATER **Date/Time Received: 11/07/2012 10:50**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Benzene	ND	ug/L	0.50		1	11/13/12	11/14/12 04:51	1014
Bromodichloromethane	ND	ug/L	0.50		1	11/13/12	11/14/12 04:51	1014
Bromoform	ND	ug/L	5.0		1	11/13/12	11/14/12 04:51	1014
Bromomethane	ND	ug/L	0.50		1	11/13/12	11/14/12 04:51	1014
Carbon Tetrachloride	ND	ug/L	0.50		1	11/13/12	11/14/12 04:51	1014
Chlorobenzene	ND	ug/L	0.50		1	11/13/12	11/14/12 04:51	1014
Chloroethane	ND	ug/L	0.50		1	11/13/12	11/14/12 04:51	1014
Chloroform	ND	ug/L	0.50		1	11/13/12	11/14/12 04:51	1014
Chloromethane	ND	ug/L	0.50		1	11/13/12	11/14/12 04:51	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0		1	11/13/12	11/14/12 04:51	1014
Dibromochloromethane	ND	ug/L	0.50		1	11/13/12	11/14/12 04:51	1014
1,2-Dibromoethane	ND	ug/L	0.50		1	11/13/12	11/14/12 04:51	1014
1,2-Dichlorobenzene	ND	ug/L	0.50		1	11/13/12	11/14/12 04:51	1014
1,3-Dichlorobenzene	ND	ug/L	0.50		1	11/13/12	11/14/12 04:51	1014
1,4-Dichlorobenzene	ND	ug/L	0.50		1	11/13/12	11/14/12 04:51	1014
Dichlorodifluoromethane	ND	ug/L	0.50		1	11/13/12	11/14/12 04:51	1014
1,1-Dichloroethane	ND	ug/L	0.50		1	11/13/12	11/14/12 04:51	1014
1,2-Dichloroethane	ND	ug/L	0.50		1	11/13/12	11/14/12 04:51	1014
cis-1,2-Dichloroethene	ND	ug/L	0.50		1	11/13/12	11/14/12 04:51	1014
trans-1,2-Dichloroethene	ND	ug/L	0.50		1	11/13/12	11/14/12 04:51	1014
1,1-Dichloroethene	ND	ug/L	0.50		1	11/13/12	11/14/12 04:51	1014
1,2-Dichloropropane	ND	ug/L	0.50		1	11/13/12	11/14/12 04:51	1014
Ethylbenzene	ND	ug/L	0.50		1	11/13/12	11/14/12 04:51	1014
Isopropylbenzene	ND	ug/L	0.50		1	11/13/12	11/14/12 04:51	1014
Methyl-t-butyl ether	ND	ug/L	0.50		1	11/13/12	11/14/12 04:51	1014
Naphthalene	ND	ug/L	0.50		1	11/13/12	11/14/12 04:51	1014
Styrene	ND	ug/L	0.50		1	11/13/12	11/14/12 04:51	1014
Diisopropyl ether	ND	ug/L	5.0		1	11/13/12	11/14/12 04:51	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50		1	11/13/12	11/14/12 04:51	1014
Tetrachloroethylene	ND	ug/L	0.50		1	11/13/12	11/14/12 04:51	1014

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12110707
Chesapeake GeoSciences, Inc., Columbia, MD
November 21, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3990 Farm-First Draw **Date/Time Sampled: 11/07/2012 08:07** **PSS Sample ID: 12110707-004**
Matrix: WATER **Date/Time Received: 11/07/2012 10:50**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Toluene	ND	ug/L	0.50		1	11/13/12	11/14/12 04:51	1014
1,2,4-Trichlorobenzene	ND	ug/L	0.50		1	11/13/12	11/14/12 04:51	1014
1,1,1-Trichloroethane	ND	ug/L	0.50		1	11/13/12	11/14/12 04:51	1014
1,1,2-Trichloroethane	ND	ug/L	0.50		1	11/13/12	11/14/12 04:51	1014
Trichloroethene	ND	ug/L	0.50		1	11/13/12	11/14/12 04:51	1014
Vinyl Chloride	ND	ug/L	0.50		1	11/13/12	11/14/12 04:51	1014
o-Xylene	ND	ug/L	0.50		1	11/13/12	11/14/12 04:51	1014
m,p-Xylenes	ND	ug/L	1.0		1	11/13/12	11/14/12 04:51	1014
tert-Butyl ethyl ether	ND	ug/L	5.0		1	11/13/12	11/14/12 04:51	1014
tert-Butyl alcohol	ND	ug/L	20		1	11/13/12	11/14/12 04:51	1014
tert-Amyl methyl ether	ND	ug/L	5.0		1	11/13/12	11/14/12 04:51	1014

ENVIRO-CHEM LABORATORIES, INC.

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FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 20-Nov-12
REPORT NUMBER: 3641

LAB#- ECL027072-007 SAMPLE ID- 3990 Farm Flushed
LOCATION- Total
DATE SAMPLED- 11/7/2012 TIME SAMPLED- 8:42 SAMPLER- L. Bennet
DATE RECEIVED- 11/7/2012 TIME RECEIVED- 10:05
DELIVERED BY- M. Emery RECEIVED BY- AAA

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromium	EPA 200.8	11/13/2012 10:49	MAP	< 1.0	µg/L	1.0
Lead	EPA 200.8	11/13/2012 10:49	MAP	< 1.0	µg/L	1.0

ENVIRO-CHEM LABORATORIES, INC.

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FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 20-Nov-12
REPORT NUMBER: 3641

LAB#- ECL027072-008 SAMPLE ID- 3990 Farm Flushed
LOCATION- Dissolved
DATE SAMPLED- 11/7/2012 TIME SAMPLED- 8:42 SAMPLER- L. Bennet
DATE RECEIVED- 11/7/2012 TIME RECEIVED- 10:05
DELIVERED BY- M. Emery RECEIVED BY- AAA

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromate	EPA 218.7	11/14/2012 01:18	SES	< 0.020	ug/L Cr	0.020
Chromium	EPA 200.8	11/13/2012 10:49	MAP	< 1.0	µg/L	1.0
Lead	EPA 200.8	11/13/2012 10:49	MAP	< 1.0	µg/L	1.0

LABORATORY DIRECTOR

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12110707
Chesapeake GeoSciences, Inc., Columbia, MD
November 21, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3990 Farm-Flushed **Date/Time Sampled: 11/07/2012 08:42** **PSS Sample ID: 12110707-005**
Matrix: WATER **Date/Time Received: 11/07/2012 10:50**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Benzene	ND	ug/L	0.50		1	11/13/12	11/14/12 05:30	1014
Bromodichloromethane	ND	ug/L	0.50		1	11/13/12	11/14/12 05:30	1014
Bromoform	ND	ug/L	5.0		1	11/13/12	11/14/12 05:30	1014
Bromomethane	ND	ug/L	0.50		1	11/13/12	11/14/12 05:30	1014
Carbon Tetrachloride	ND	ug/L	0.50		1	11/13/12	11/14/12 05:30	1014
Chlorobenzene	ND	ug/L	0.50		1	11/13/12	11/14/12 05:30	1014
Chloroethane	ND	ug/L	0.50		1	11/13/12	11/14/12 05:30	1014
Chloroform	ND	ug/L	0.50		1	11/13/12	11/14/12 05:30	1014
Chloromethane	ND	ug/L	0.50		1	11/13/12	11/14/12 05:30	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0		1	11/13/12	11/14/12 05:30	1014
Dibromochloromethane	ND	ug/L	0.50		1	11/13/12	11/14/12 05:30	1014
1,2-Dibromoethane	ND	ug/L	0.50		1	11/13/12	11/14/12 05:30	1014
1,2-Dichlorobenzene	ND	ug/L	0.50		1	11/13/12	11/14/12 05:30	1014
1,3-Dichlorobenzene	ND	ug/L	0.50		1	11/13/12	11/14/12 05:30	1014
1,4-Dichlorobenzene	ND	ug/L	0.50		1	11/13/12	11/14/12 05:30	1014
Dichlorodifluoromethane	ND	ug/L	0.50		1	11/13/12	11/14/12 05:30	1014
1,1-Dichloroethane	ND	ug/L	0.50		1	11/13/12	11/14/12 05:30	1014
1,2-Dichloroethane	ND	ug/L	0.50		1	11/13/12	11/14/12 05:30	1014
cis-1,2-Dichloroethene	ND	ug/L	0.50		1	11/13/12	11/14/12 05:30	1014
trans-1,2-Dichloroethene	ND	ug/L	0.50		1	11/13/12	11/14/12 05:30	1014
1,1-Dichloroethene	ND	ug/L	0.50		1	11/13/12	11/14/12 05:30	1014
1,2-Dichloropropane	ND	ug/L	0.50		1	11/13/12	11/14/12 05:30	1014
Ethylbenzene	ND	ug/L	0.50		1	11/13/12	11/14/12 05:30	1014
Isopropylbenzene	ND	ug/L	0.50		1	11/13/12	11/14/12 05:30	1014
Methyl-t-butyl ether	**610**	ug/L	10		20	11/13/12	11/15/12 17:59	1014
Naphthalene	ND	ug/L	0.50		1	11/13/12	11/14/12 05:30	1014
Styrene	ND	ug/L	0.50		1	11/13/12	11/14/12 05:30	1014
Diisopropyl ether	**5.6**	ug/L	5.0		1	11/13/12	11/14/12 05:30	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50		1	11/13/12	11/14/12 05:30	1014
Tetrachloroethylene	ND	ug/L	0.50		1	11/13/12	11/14/12 05:30	1014

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12110707
Chesapeake GeoSciences, Inc., Columbia, MD
November 21, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3990 Farm-Flushed **Date/Time Sampled: 11/07/2012 08:42** **PSS Sample ID: 12110707-005**
Matrix: WATER **Date/Time Received: 11/07/2012 10:50**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Toluene	ND	ug/L	0.50		1	11/13/12	11/14/12 05:30	1014
1,2,4-Trichlorobenzene	ND	ug/L	0.50		1	11/13/12	11/14/12 05:30	1014
1,1,1-Trichloroethane	ND	ug/L	0.50		1	11/13/12	11/14/12 05:30	1014
1,1,2-Trichloroethane	ND	ug/L	0.50		1	11/13/12	11/14/12 05:30	1014
Trichloroethene	ND	ug/L	0.50		1	11/13/12	11/14/12 05:30	1014
Vinyl Chloride	ND	ug/L	0.50		1	11/13/12	11/14/12 05:30	1014
o-Xylene	ND	ug/L	0.50		1	11/13/12	11/14/12 05:30	1014
m,p-Xylenes	ND	ug/L	1.0		1	11/13/12	11/14/12 05:30	1014
tert-Butyl ethyl ether	ND	ug/L	5.0		1	11/13/12	11/14/12 05:30	1014
tert-Butyl alcohol	**130**	ug/L	20		1	11/13/12	11/14/12 05:30	1014
tert-Amyl methyl ether	**13**	ug/L	5.0		1	11/13/12	11/14/12 05:30	1014

MARYLAND DEPARTMENT OF THE ENVIRONMENT
MDE
1800 Washington Boulevard • Baltimore MD 21230
410-537-3000 • 1-800-633-6101 • www.mde.state.md.us

Martin O'Malley
Governor

Anthony G. Brown
Lieutenant Governor

Robert M. Summers, Ph.D.
Secretary

December 7, 2012

Mr. and Mrs. Todd and Shelly Ploski
3991 Farm Lane
Monrovia MD 21770-8904

RE: DRINKING WATER SAMPLING RESULTS
MDE-FCHD Groundwater Investigation
Green Valley / Monrovia
Frederick County, Maryland

Dear Mr. and Mrs. Ploski:

On November 14, 2012, the Frederick County Health Department (FCHD) and the Maryland Department of the Environment's (MDE) contractor, sampled your drinking water supply. A first draw sample and a flushed sample were collected from your household plumbing system to investigate the potential presence and source of certain contaminants.

The full laboratory analytical reports are attached. The results related to lead, chromium, methyl tertiary-butyl ether (MTBE), and pH are summarized below for reference. Note that all concentrations are presented as micrograms per liter (μg/L) (also known as parts per billion [ppb]). If the specific substance was not detected, the value is preceded by a "less than" symbol ("<"). Measurements of pH are unitless.

	First Draw	Flushed	MCL/Action Level/Recommended Range
Total Chromium	1.3	8.2	100
Total Lead	1.3	22.4	15
Chromate / Hexavalent Chromium	<0.020	0.023	0.3
Dissolved Chromium	2.0	5.8	n/a
Dissolved Lead	<1.0	6.3	n/a
MTBE	<0.5	<0.5	20
pH	7.45	6.87	6.5 – 8.5

The federal and state maximum contaminant level (MCL) for total chromium is 100 μg/L. There is no separate federal or state MCL for hexavalent chromium or for dissolved chromium. The MDE uses 0.3 μg/L as an action level for hexavalent chromium, because that is MDE's conservative lifetime exposure health based standard. The federal and state action level that warrants additional investigation for total lead in public drinking water supplies is 15 μg/L, so the MDE follows this level

as an action level for private water supplies. There is no separate level for dissolved lead. For MTBE, the state action level that warrants corrective measures is 20 μg/L. There is no federal action level for MTBE. The US EPA recommended pH range for drinking water is 6.5 to 8.5.

Hexavalent chromium and lead are metals that can be hazardous to human health. Both metals can occur naturally in the environment or may be generated by human activity. Home water pumps, piping, and faucets also are known to be potential sources of lead in drinking water. MTBE is a compound associated with petroleum products.

The MDE and FCHD remind you to properly maintain any filtration equipment you use in your household and to follow all manufacturer recommendations. Additionally, both departments recommend that all private well users follow best practices to protect their wells and their family. This includes flushing your faucet for a few minutes prior to consuming the water, particularly after the water has not been used for an extended period of time.

For questions relating to private drinking water wells, please visit the MDE website at: http://bit.ly/MDEreswells, or call the Water Management Administration at 410-537-3780. If you would like more information about the ongoing petroleum cleanups in the Monrovia area at the former Green Valley Citgo or the Green Valley Garage, please visit the MDE website at: http://bit.ly/MDEoilcontrolremediation, or call the Oil Control Program at 410-537-3443. The FCHD also has information relating to well maintenance and contaminants on its website, including links to the EPA's information on lead and chromium, at: http://bit.ly/FCHDWaterQuality, or call them at 301-600-1717.

Sincerely,

Christopher Ralston, Administrator
Oil Control Program

CHR/nln

Enclosure

cc: Dr. Barbara Brookmyer, FCHD Health Officer
Mr. Jay Sakai, Director, MDE Water Management Administration
Mr. Horacio Tablada, Director, MDE Land Management Administration
Priscilla N. Carroll, Esq., Assistant Attorney General
Francesca Gibbs, Esq., Assistant Attorney General
M. Albert Figinski, Esq., Law Offices of Peter G. Angelos
Dwight Stone, Esq., Whiteford Taylor Preston

ENVIRO-CHEM LABORATORIES, INC.

47 Loveton Circle, Suite K • Sparks, Maryland 21152 410-472-1112

FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 24-Nov-12
REPORT NUMBER: 3654

LAB#- ECL027163-001 SAMPLE ID- 3991 Farm First Draw
LOCATION- Total
DATE SAMPLED- 11/14/2012 TIME SAMPLED- 17:20 SAMPLER- M. Emery
DATE RECEIVED- 11/15/2012 TIME RECEIVED- 9:09
DELIVERED BY- C. Brown RECEIVED BY- SES

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromium	EPA 200.8	11/18/2012 10:03	MAP	1.3	µg/L	1.0
Lead	EPA 200.8	11/18/2012 10:03	MAP	1.3	µg/L	1.0

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FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 24-Nov-12

REPORT NUMBER: 3654

LAB#- ECL027163-002 SAMPLE ID- 3991 Farm First Draw
LOCATION- Dissolved
DATE SAMPLED- 11/14/2012 TIME SAMPLED- 17:20 SAMPLER- M. Emery
DATE RECEIVED- 11/15/2012 TIME RECEIVED- 9:09
DELIVERED BY- C. Brown RECEIVED BY- SES

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromate	EPA 218.7	11/15/2012 14:12	SES	< 0.020	ug/L Cr	0.020
Chromium	EPA 200.8	11/18/2012 10:03	MAP	2.0	µg/L	1.0
Lead	EPA 200.8	11/18/2012 10:03	MAP	< 1.0	µg/L	1.0

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12111513
Chesapeake GeoSciences, Inc., Columbia, MD
December 3, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3991 Farm-First Draw **Date/Time Sampled: 11/14/2012 17:20** **PSS Sample ID: 12111513-001**
Matrix: WATER **Date/Time Received: 11/15/2012 14:05**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Benzene	ND	ug/L	0.50		1	11/22/12	11/22/12 21:54	1014
Bromodichloromethane	ND	ug/L	0.50		1	11/22/12	11/22/12 21:54	1014
Bromoform	ND	ug/L	5.0		1	11/22/12	11/22/12 21:54	1014
Bromomethane	ND	ug/L	0.50		1	11/22/12	11/22/12 21:54	1014
Carbon Tetrachloride	ND	ug/L	0.50		1	11/22/12	11/22/12 21:54	1014
Chlorobenzene	ND	ug/L	0.50		1	11/22/12	11/22/12 21:54	1014
Chloroethane	ND	ug/L	0.50		1	11/22/12	11/22/12 21:54	1014
Chloroform	ND	ug/L	0.50		1	11/22/12	11/22/12 21:54	1014
Chloromethane	ND	ug/L	0.50		1	11/22/12	11/22/12 21:54	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0		1	11/22/12	11/22/12 21:54	1014
Dibromochloromethane	ND	ug/L	0.50		1	11/22/12	11/22/12 21:54	1014
1,2-Dibromoethane	ND	ug/L	0.50		1	11/22/12	11/22/12 21:54	1014
1,2-Dichlorobenzene	ND	ug/L	0.50		1	11/22/12	11/22/12 21:54	1014
1,3-Dichlorobenzene	ND	ug/L	0.50		1	11/22/12	11/22/12 21:54	1014
1,4-Dichlorobenzene	ND	ug/L	0.50		1	11/22/12	11/22/12 21:54	1014
Dichlorodifluoromethane	ND	ug/L	0.50		1	11/22/12	11/22/12 21:54	1014
1,1-Dichloroethane	ND	ug/L	0.50		1	11/22/12	11/22/12 21:54	1014
1,2-Dichloroethane	ND	ug/L	0.50		1	11/22/12	11/22/12 21:54	1014
cis-1,2-Dichloroethene	ND	ug/L	0.50		1	11/22/12	11/22/12 21:54	1014
trans-1,2-Dichloroethene	ND	ug/L	0.50		1	11/22/12	11/22/12 21:54	1014
1,1-Dichloroethene	ND	ug/L	0.50		1	11/22/12	11/22/12 21:54	1014
1,2-Dichloropropane	ND	ug/L	0.50		1	11/22/12	11/22/12 21:54	1014
Ethylbenzene	ND	ug/L	0.50		1	11/22/12	11/22/12 21:54	1014
Isopropylbenzene	ND	ug/L	0.50		1	11/22/12	11/22/12 21:54	1014
Methyl-t-butyl ether	ND	ug/L	0.50		1	11/22/12	11/22/12 21:54	1014
Naphthalene	ND	ug/L	0.50		1	11/22/12	11/22/12 21:54	1014
Styrene	ND	ug/L	0.50		1	11/22/12	11/22/12 21:54	1014
Diisopropyl ether	ND	ug/L	5.0		1	11/22/12	11/22/12 21:54	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50		1	11/22/12	11/22/12 21:54	1014
Tetrachloroethylene	ND	ug/L	0.50		1	11/22/12	11/22/12 21:54	1014

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12111513
Chesapeake GeoSciences, Inc., Columbia, MD
December 3, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3991 Farm-First Draw **Date/Time Sampled: 11/14/2012 17:20** **PSS Sample ID: 12111513-001**
Matrix: WATER **Date/Time Received: 11/15/2012 14:05**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Toluene	ND	ug/L	0.50		1	11/22/12	11/22/12 21:54	1014
1,2,4-Trichlorobenzene	ND	ug/L	0.50		1	11/22/12	11/22/12 21:54	1014
1,1,1-Trichloroethane	ND	ug/L	0.50		1	11/22/12	11/22/12 21:54	1014
1,1,2-Trichloroethane	ND	ug/L	0.50		1	11/22/12	11/22/12 21:54	1014
Trichloroethene	ND	ug/L	0.50		1	11/22/12	11/22/12 21:54	1014
Vinyl Chloride	ND	ug/L	0.50		1	11/22/12	11/22/12 21:54	1014
o-Xylene	ND	ug/L	0.50		1	11/22/12	11/22/12 21:54	1014
m,p-Xylenes	ND	ug/L	1.0		1	11/22/12	11/22/12 21:54	1014
tert-Butyl ethyl ether	ND	ug/L	5.0		1	11/22/12	11/22/12 21:54	1014
tert-Butyl alcohol	ND	ug/L	20		1	11/22/12	11/22/12 21:54	1014
tert-Amyl methyl ether	ND	ug/L	5.0		1	11/22/12	11/22/12 21:54	1014

ENVIRO-CHEM LABORATORIES, INC.

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FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 24-Nov-12
REPORT NUMBER: 3654

LAB#- ECL027163-003 SAMPLE ID- 3991 Farm Flushed
LOCATION- Total
DATE SAMPLED- 11/14/2012 TIME SAMPLED- 17:50 SAMPLER- M. Emery
DATE RECEIVED- 11/15/2012 TIME RECEIVED- 9:09
DELIVERED BY- C. Brown RECEIVED BY- SES

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromium	EPA 200.8	11/18/2012 10:03	MAP	8.2	µg/L	1.0
Lead	EPA 200.8	11/18/2012 10:03	MAP	22.4	µg/L	1.0

ENVIRO-CHEM
LABORATORIES, INC.

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FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 24-Nov-12
REPORT NUMBER: 3654

LAB#- ECL027163-004 SAMPLE ID- 3991 Farm Flushed
LOCATION- Dissolved
DATE SAMPLED- 11/14/2012 TIME SAMPLED- 17:50 SAMPLER- M. Emery
DATE RECEIVED- 11/15/2012 TIME RECEIVED- 9:09
DELIVERED BY- C. Brown RECEIVED BY- SES

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromate	EPA 218.7	11/15/2012 15:09	SES	0.023	ug/L Cr	0.020
Chromium	EPA 200.8	11/18/2012 10:03	MAP	5.8	µg/L	1.0
Lead	EPA 200.8	11/18/2012 10:03	MAP	6.3	µg/L	1.0

LABORATORY DIRECTOR

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12111513
Chesapeake GeoSciences, Inc., Columbia, MD
December 3, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3991 Farm-Flushed **Date/Time Sampled: 11/14/2012 17:50** **PSS Sample ID: 12111513-002**
Matrix: WATER **Date/Time Received: 11/15/2012 14:05**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Benzene	ND	ug/L	0.50		1	11/22/12	11/22/12 22:33	1014
Bromodichloromethane	ND	ug/L	0.50		1	11/22/12	11/22/12 22:33	1014
Bromoform	ND	ug/L	5.0		1	11/22/12	11/22/12 22:33	1014
Bromomethane	ND	ug/L	0.50		1	11/22/12	11/22/12 22:33	1014
Carbon Tetrachloride	ND	ug/L	0.50		1	11/22/12	11/22/12 22:33	1014
Chlorobenzene	ND	ug/L	0.50		1	11/22/12	11/22/12 22:33	1014
Chloroethane	ND	ug/L	0.50		1	11/22/12	11/22/12 22:33	1014
Chloroform	ND	ug/L	0.50		1	11/22/12	11/22/12 22:33	1014
Chloromethane	ND	ug/L	0.50		1	11/22/12	11/22/12 22:33	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0		1	11/22/12	11/22/12 22:33	1014
Dibromochloromethane	ND	ug/L	0.50		1	11/22/12	11/22/12 22:33	1014
1,2-Dibromoethane	ND	ug/L	0.50		1	11/22/12	11/22/12 22:33	1014
1,2-Dichlorobenzene	ND	ug/L	0.50		1	11/22/12	11/22/12 22:33	1014
1,3-Dichlorobenzene	ND	ug/L	0.50		1	11/22/12	11/22/12 22:33	1014
1,4-Dichlorobenzene	ND	ug/L	0.50		1	11/22/12	11/22/12 22:33	1014
Dichlorodifluoromethane	ND	ug/L	0.50		1	11/22/12	11/22/12 22:33	1014
1,1-Dichloroethane	ND	ug/L	0.50		1	11/22/12	11/22/12 22:33	1014
1,2-Dichloroethane	ND	ug/L	0.50		1	11/22/12	11/22/12 22:33	1014
cis-1,2-Dichloroethene	ND	ug/L	0.50		1	11/22/12	11/22/12 22:33	1014
trans-1,2-Dichloroethene	ND	ug/L	0.50		1	11/22/12	11/22/12 22:33	1014
1,1-Dichloroethene	ND	ug/L	0.50		1	11/22/12	11/22/12 22:33	1014
1,2-Dichloropropane	ND	ug/L	0.50		1	11/22/12	11/22/12 22:33	1014
Ethylbenzene	ND	ug/L	0.50		1	11/22/12	11/22/12 22:33	1014
Isopropylbenzene	ND	ug/L	0.50		1	11/22/12	11/22/12 22:33	1014
Methyl-t-butyl ether	ND	ug/L	0.50		1	11/22/12	11/22/12 22:33	1014
Naphthalene	ND	ug/L	0.50		1	11/22/12	11/22/12 22:33	1014
Styrene	ND	ug/L	0.50		1	11/22/12	11/22/12 22:33	1014
Diisopropyl ether	ND	ug/L	5.0		1	11/22/12	11/22/12 22:33	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50		1	11/22/12	11/22/12 22:33	1014
Tetrachloroethylene	ND	ug/L	0.50		1	11/22/12	11/22/12 22:33	1014

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12111513
Chesapeake GeoSciences, Inc., Columbia, MD
December 3, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3991 Farm-Flushed **Date/Time Sampled: 11/14/2012 17:50** **PSS Sample ID: 12111513-002**
Matrix: WATER **Date/Time Received: 11/15/2012 14:05**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Toluene	ND	ug/L	0.50		1	11/22/12	11/22/12 22:33	1014
1,2,4-Trichlorobenzene	ND	ug/L	0.50		1	11/22/12	11/22/12 22:33	1014
1,1,1-Trichloroethane	ND	ug/L	0.50		1	11/22/12	11/22/12 22:33	1014
1,1,2-Trichloroethane	ND	ug/L	0.50		1	11/22/12	11/22/12 22:33	1014
Trichloroethene	ND	ug/L	0.50		1	11/22/12	11/22/12 22:33	1014
Vinyl Chloride	ND	ug/L	0.50		1	11/22/12	11/22/12 22:33	1014
o-Xylene	ND	ug/L	0.50		1	11/22/12	11/22/12 22:33	1014
m,p-Xylenes	ND	ug/L	1.0		1	11/22/12	11/22/12 22:33	1014
tert-Butyl ethyl ether	ND	ug/L	5.0		1	11/22/12	11/22/12 22:33	1014
tert-Butyl alcohol	ND	ug/L	20		1	11/22/12	11/22/12 22:33	1014
tert-Amyl methyl ether	ND	ug/L	5.0		1	11/22/12	11/22/12 22:33	1014

MARYLAND DEPARTMENT OF THE ENVIRONMENT
MDE
1800 Washington Boulevard • Baltimore MD 21230
410-537-3000 • 1-800-633-6101 • www.mde.state.md.us

Martin O'Malley
Governor

Anthony G. Brown
Lieutenant Governor

Robert M. Summers, Ph.D.
Secretary

December 7, 2012

Mr. and Mrs. Richard and Zee Podliska
3992 Farm Lane
Monrovia MD 21770

RE: DRINKING WATER SAMPLING RESULTS
MDE-FCHD Groundwater Investigation
Green Valley / Monrovia
Frederick County, Maryland

Dear Mr. and Mrs. Podliska:

On November 9, 2012, the Frederick County Health Department (FCHD) and the Maryland Department of the Environment's (MDE) contractor, sampled your drinking water supply. A first draw sample and a flushed sample were collected from your household plumbing system to investigate the potential presence and source of certain contaminants.

The full laboratory analytical reports are attached. The results related to lead, chromium, methyl tertiary-butyl ether (MTBE), and pH are summarized below for reference. Note that all concentrations are presented as micrograms per liter (μg/L) (also known as parts per billion [ppb]). If the specific substance was not detected, the value is preceded by a "less than" symbol ("<"). Measurements of pH are unitless.

	First Draw	Flushed	MCL/Action Level/Recommended Range
Total Chromium	<1.0	<1.0	100
Total Lead	1.2	<1.0	15
Chromate / Hexavalent Chromium	<0.020	<0.020	0.3
Dissolved Chromium	<1.0	<1.0	n/a
Dissolved Lead	<1.0	<1.0	n/a
MTBE	<0.5	190	20
pH	6.69	6.75	6.5 – 8.5

The federal and state maximum contaminant level (MCL) for total chromium is 100 μg/L. There is no separate federal or state MCL for hexavalent chromium or for dissolved chromium. The MDE uses 0.3 μg/L as an action level for hexavalent chromium, because that is MDE's conservative lifetime exposure health based standard. The federal and state action level that warrants additional investigation for total lead in public drinking water supplies is 15 μg/L, so the MDE follows this level

as an action level for private water supplies. There is no separate level for dissolved lead. For MTBE, the state action level that warrants corrective measures is 20 μg/L. There is no federal action level for MTBE. The US EPA recommended pH range for drinking water is 6.5 to 8.5.

Hexavalent chromium and lead are metals that can be hazardous to human health. Both metals can occur naturally in the environment or may be generated by human activity. Home water pumps, piping, and faucets also are known to be potential sources of lead in drinking water. MTBE is a compound associated with petroleum products.

The MDE and FCHD remind you to properly maintain any filtration equipment you use in your household and to follow all manufacturer recommendations. Additionally, both departments recommend that all private well users follow best practices to protect their wells and their family. This includes flushing your faucet for a few minutes prior to consuming the water, particularly after the water has not been used for an extended period of time.

For questions relating to private drinking water wells, please visit the MDE website at: http://bit.ly/MDEreswells, or call the Water Management Administration at 410-537-3780. If you would like more information about the ongoing petroleum cleanups in the Monrovia area at the former Green Valley Citgo or the Green Valley Garage, please visit the MDE website at: http://bit.ly/MDEoilcontrolremediation, or call the Oil Control Program at 410-537-3443. The FCHD also has information relating to well maintenance and contaminants on its website, including links to the EPA's information on lead and chromium, at: http://bit.ly/FCHDWaterQuality, or call them at 301-600-1717.

Sincerely,

Christopher Ralston, Administrator
Oil Control Program

CHR/nln

Enclosure

cc: Dr. Barbara Brookmyer, FCHD Health Officer
Mr. Jay Sakai, Director, MDE Water Management Administration
Mr. Horacio Tablada, Director, MDE Land Management Administration
Priscilla N. Carroll, Esq., Assistant Attorney General
Francesca Gibbs, Esq., Assistant Attorney General
M. Albert Figinski, Esq., Law Offices of Peter G. Angelos
Dwight Stone, Esq., Whiteford Taylor Preston

ENVIRO-CHEM LABORATORIES, INC.

47 Loveton Circle, Suite K • Sparks, Maryland 21152 410-472-1112

FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 24-Nov-12
REPORT NUMBER: 3651

LAB#- ECL027120-007 SAMPLE ID- 3992 Farm-First Draw
LOCATION- Total
DATE SAMPLED- 11/9/2012 TIME SAMPLED- 7:15 SAMPLER- L. Bennett
DATE RECEIVED- 11/9/2012 TIME RECEIVED- 11:36
DELIVERED BY- L. Bennett RECEIVED BY- JRB

Page 7 of 10

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromium	EPA 200.8	11/13/2012 10:49	MAP	< 1.0	µg/L	1.0
Lead	EPA 200.8	11/13/2012 10:49	MAP	1.2	µg/L	1.0

ENVIRO-CHEM LABORATORIES, INC.

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410-472-1112

FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 24-Nov-12

REPORT NUMBER: 3651

LAB#- ECL027120-008 SAMPLE ID- 3992 Farm-First Draw
LOCATION- Dissolved
DATE SAMPLED- 11/9/2012 TIME SAMPLED- 7:15 SAMPLER- L. Bennett
DATE RECEIVED- 11/9/2012 TIME RECEIVED- 11:36
DELIVERED BY- L. Bennett RECEIVED BY- JRB

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromate	EPA 218.7	11/12/2014 03:11	SES	< 0.020	ug/L Cr	0.020
Chromium	EPA 200.8	11/13/2012 10:49	MAP	< 1.0	µg/L	1.0
Lead	EPA 200.8	11/13/2012 10:49	MAP	< 1.0	µg/L	1.0

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ROUTE 40 WEST
BALTIMORE, MD 21228
410-747-8770
800-932-9047
FAX 410-788-8723

PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12110915
Chesapeake GeoSciences, Inc., Columbia, MD
November 27, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3992 Farm-First Draw **Date/Time Sampled: 11/09/2012 07:15** **PSS Sample ID: 12110915-004**
Matrix: WATER **Date/Time Received: 11/09/2012 12:20**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Benzene	ND	ug/L	0.50		1	11/15/12	11/15/12 23:17	1014
Bromodichloromethane	ND	ug/L	0.50		1	11/15/12	11/15/12 23:17	1014
Bromoform	ND	ug/L	5.0		1	11/15/12	11/15/12 23:17	1014
Bromomethane	ND	ug/L	0.50		1	11/15/12	11/15/12 23:17	1014
Carbon Tetrachloride	ND	ug/L	0.50		1	11/15/12	11/15/12 23:17	1014
Chlorobenzene	ND	ug/L	0.50		1	11/15/12	11/15/12 23:17	1014
Chloroethane	ND	ug/L	0.50		1	11/15/12	11/15/12 23:17	1014
Chloroform	ND	ug/L	0.50		1	11/15/12	11/15/12 23:17	1014
Chloromethane	ND	ug/L	0.50		1	11/15/12	11/15/12 23:17	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0		1	11/15/12	11/15/12 23:17	1014
Dibromochloromethane	ND	ug/L	0.50		1	11/15/12	11/15/12 23:17	1014
1,2-Dibromoethane	ND	ug/L	0.50		1	11/15/12	11/15/12 23:17	1014
1,2-Dichlorobenzene	ND	ug/L	0.50		1	11/15/12	11/15/12 23:17	1014
1,3-Dichlorobenzene	ND	ug/L	0.50		1	11/15/12	11/15/12 23:17	1014
1,4-Dichlorobenzene	ND	ug/L	0.50		1	11/15/12	11/15/12 23:17	1014
Dichlorodifluoromethane	ND	ug/L	0.50		1	11/15/12	11/15/12 23:17	1014
1,1-Dichloroethane	ND	ug/L	0.50		1	11/15/12	11/15/12 23:17	1014
1,2-Dichloroethane	ND	ug/L	0.50		1	11/15/12	11/15/12 23:17	1014
cis-1,2-Dichloroethene	ND	ug/L	0.50		1	11/15/12	11/15/12 23:17	1014
trans-1,2-Dichloroethene	ND	ug/L	0.50		1	11/15/12	11/15/12 23:17	1014
1,1-Dichloroethene	ND	ug/L	0.50		1	11/15/12	11/15/12 23:17	1014
1,2-Dichloropropane	ND	ug/L	0.50		1	11/15/12	11/15/12 23:17	1014
Ethylbenzene	ND	ug/L	0.50		1	11/15/12	11/15/12 23:17	1014
Isopropylbenzene	ND	ug/L	0.50		1	11/15/12	11/15/12 23:17	1014
Methyl-t-butyl ether	ND	ug/L	0.50		1	11/15/12	11/15/12 23:17	1014
Naphthalene	ND	ug/L	0.50		1	11/15/12	11/15/12 23:17	1014
Styrene	ND	ug/L	0.50		1	11/15/12	11/15/12 23:17	1014
Diisopropyl ether	ND	ug/L	5.0		1	11/15/12	11/15/12 23:17	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50		1	11/15/12	11/15/12 23:17	1014
Tetrachloroethylene	ND	ug/L	0.50		1	11/15/12	11/15/12 23:17	1014

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BALTIMORE, MD 21228
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800-932-9047
FAX 410-788-8723

PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12110915
Chesapeake GeoSciences, Inc., Columbia, MD
November 27, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3992 Farm-First Draw **Date/Time Sampled: 11/09/2012 07:15** **PSS Sample ID: 12110915-004**
Matrix: WATER **Date/Time Received: 11/09/2012 12:20**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Toluene	ND	ug/L	0.50		1	11/15/12	11/15/12 23:17	1014
1,2,4-Trichlorobenzene	ND	ug/L	0.50		1	11/15/12	11/15/12 23:17	1014
1,1,1-Trichloroethane	ND	ug/L	0.50		1	11/15/12	11/15/12 23:17	1014
1,1,2-Trichloroethane	ND	ug/L	0.50		1	11/15/12	11/15/12 23:17	1014
Trichloroethene	ND	ug/L	0.50		1	11/15/12	11/15/12 23:17	1014
Vinyl Chloride	ND	ug/L	0.50		1	11/15/12	11/15/12 23:17	1014
o-Xylene	ND	ug/L	0.50		1	11/15/12	11/15/12 23:17	1014
m,p-Xylenes	ND	ug/L	1.0		1	11/15/12	11/15/12 23:17	1014
tert-Butyl ethyl ether	ND	ug/L	5.0		1	11/15/12	11/15/12 23:17	1014
tert-Butyl alcohol	ND	ug/L	20		1	11/15/12	11/15/12 23:17	1014
tert-Amyl methyl ether	ND	ug/L	5.0		1	11/15/12	11/15/12 23:17	1014

ENVIRO-CHEM
LABORATORIES, INC.

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FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 24-Nov-12
REPORT NUMBER: 3651

LAB#- ECL027120-009 SAMPLE ID- 3992 Farm-Flushed
LOCATION- Total
DATE SAMPLED- 11/9/2012 TIME SAMPLED- 7:52 SAMPLER- L. Bennett
DATE RECEIVED- 11/9/2012 TIME RECEIVED- 11:36
DELIVERED BY- L. Bennett RECEIVED BY- JRB

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromium	EPA 200.8	11/13/2012 10:49	MAP	< 1.0	µg/L	1.0
Lead	EPA 200.8	11/13/2012 10:49	MAP	< 1.0	µg/L	1.0

ENVIRO-CHEM LABORATORIES, INC.

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FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 24-Nov-12
REPORT NUMBER: 3651

LAB#- ECL027120-010 SAMPLE ID- 3992 Farm-Flushed
LOCATION- Dissolved
DATE SAMPLED- 11/9/2012 TIME SAMPLED- 7:52 SAMPLER- L. Bennett
DATE RECEIVED- 11/9/2012 TIME RECEIVED- 11:36
DELIVERED BY- L. Bennett RECEIVED BY- JRB

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromate	EPA 218.7	11/12/2014 03:30	SES	< 0.020	ug/L Cr	0.020
Chromium	EPA 200.8	11/13/2012 10:49	MAP	< 1.0	µg/L	1.0
Lead	EPA 200.8	11/13/2012 10:49	MAP	< 1.0	µg/L	1.0

Stephen E. Shelley
LABORATORY DIRECTOR

OFFICES:
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BALTIMORE, MD 21228
410-747-8770
800-932-9047
FAX 410-788-8723

PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12110915
Chesapeake GeoSciences, Inc., Columbia, MD
November 27, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3992 Farm-Flushed **Date/Time Sampled: 11/09/2012 07:52** **PSS Sample ID: 12110915-005**
Matrix: WATER **Date/Time Received: 11/09/2012 12:20**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Benzene	ND	ug/L	0.50		1	11/15/12	11/15/12 23:57	1014
Bromodichloromethane	ND	ug/L	0.50		1	11/15/12	11/15/12 23:57	1014
Bromoform	ND	ug/L	5.0		1	11/15/12	11/15/12 23:57	1014
Bromomethane	ND	ug/L	0.50		1	11/15/12	11/15/12 23:57	1014
Carbon Tetrachloride	ND	ug/L	0.50		1	11/15/12	11/15/12 23:57	1014
Chlorobenzene	ND	ug/L	0.50		1	11/15/12	11/15/12 23:57	1014
Chloroethane	ND	ug/L	0.50		1	11/15/12	11/15/12 23:57	1014
Chloroform	ND	ug/L	0.50		1	11/15/12	11/15/12 23:57	1014
Chloromethane	ND	ug/L	0.50		1	11/15/12	11/15/12 23:57	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0		1	11/15/12	11/15/12 23:57	1014
Dibromochloromethane	ND	ug/L	0.50		1	11/15/12	11/15/12 23:57	1014
1,2-Dibromoethane	ND	ug/L	0.50		1	11/15/12	11/15/12 23:57	1014
1,2-Dichlorobenzene	ND	ug/L	0.50		1	11/15/12	11/15/12 23:57	1014
1,3-Dichlorobenzene	ND	ug/L	0.50		1	11/15/12	11/15/12 23:57	1014
1,4-Dichlorobenzene	ND	ug/L	0.50		1	11/15/12	11/15/12 23:57	1014
Dichlorodifluoromethane	ND	ug/L	0.50		1	11/15/12	11/15/12 23:57	1014
1,1-Dichloroethane	ND	ug/L	0.50		1	11/15/12	11/15/12 23:57	1014
1,2-Dichloroethane	ND	ug/L	0.50		1	11/15/12	11/15/12 23:57	1014
cis-1,2-Dichloroethene	ND	ug/L	0.50		1	11/15/12	11/15/12 23:57	1014
trans-1,2-Dichloroethene	ND	ug/L	0.50		1	11/15/12	11/15/12 23:57	1014
1,1-Dichloroethene	ND	ug/L	0.50		1	11/15/12	11/15/12 23:57	1014
1,2-Dichloropropane	ND	ug/L	0.50		1	11/15/12	11/15/12 23:57	1014
Ethylbenzene	ND	ug/L	0.50		1	11/15/12	11/15/12 23:57	1014
Isopropylbenzene	ND	ug/L	0.50		1	11/15/12	11/15/12 23:57	1014
Methyl-t-butyl ether	**190**	ug/L	5.0		10	11/15/12	11/16/12 12:32	1014
Naphthalene	ND	ug/L	0.50		1	11/15/12	11/15/12 23:57	1014
Styrene	ND	ug/L	0.50		1	11/15/12	11/15/12 23:57	1014
Diisopropyl ether	ND	ug/L	5.0		1	11/15/12	11/15/12 23:57	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50		1	11/15/12	11/15/12 23:57	1014
Tetrachloroethylene	ND	ug/L	0.50		1	11/15/12	11/15/12 23:57	1014

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12110915
Chesapeake GeoSciences, Inc., Columbia, MD
November 27, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3992 Farm-Flushed **Date/Time Sampled: 11/09/2012 07:52** **PSS Sample ID: 12110915-005**
Matrix: WATER **Date/Time Received: 11/09/2012 12:20**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Toluene	ND	ug/L	0.50		1	11/15/12	11/15/12 23:57	1014
1,2,4-Trichlorobenzene	ND	ug/L	0.50		1	11/15/12	11/15/12 23:57	1014
1,1,1-Trichloroethane	ND	ug/L	0.50		1	11/15/12	11/15/12 23:57	1014
1,1,2-Trichloroethane	ND	ug/L	0.50		1	11/15/12	11/15/12 23:57	1014
Trichloroethene	ND	ug/L	0.50		1	11/15/12	11/15/12 23:57	1014
Vinyl Chloride	ND	ug/L	0.50		1	11/15/12	11/15/12 23:57	1014
o-Xylene	ND	ug/L	0.50		1	11/15/12	11/15/12 23:57	1014
m,p-Xylenes	ND	ug/L	1.0		1	11/15/12	11/15/12 23:57	1014
tert-Butyl ethyl ether	ND	ug/L	5.0		1	11/15/12	11/15/12 23:57	1014
tert-Butyl alcohol	ND	ug/L	20		1	11/15/12	11/15/12 23:57	1014
tert-Amyl methyl ether	ND	ug/L	5.0		1	11/15/12	11/15/12 23:57	1014

MARYLAND DEPARTMENT OF THE ENVIRONMENT
1800 Washington Boulevard • Baltimore MD 21230
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Martin O'Malley
Governor

Anthony G. Brown
Lieutenant Governor

Robert M. Summers, Ph.D.
Secretary

November 16, 2012

Mr. and Mrs. Michael and Diane Hughes
3993 Farm Lane
Monrovia MD 21770

RE: DRINKING WATER SAMPLING RESULTS
MDE-FCHD Groundwater Investigation
Green Valley / Monrovia
Frederick County, Maryland

Dear Mr. and Mrs. Hughes:

On October 25, 2012, the Frederick County Health Department (FCHD) and the Maryland Department of the Environment's (MDE) contractor, sampled your drinking water supply. A first draw sample and a flushed sample were collected from your household plumbing system to investigate the potential presence and source of certain contaminants.

The full laboratory analytical reports are attached. The results related to lead, chromium, methyl tertiary butyl ether (MTBE), and pH are summarized below for reference. Note that all concentrations are presented as micrograms per liter (μg/L) (also known as parts per billion (ppb)). If the specific substance was not detected, the value is preceded by a "less than" symbol ("<"). Measurements of pH are unitless.

	First Draw	Flushed	MCL/Action Level/Recommended Range
Total Chromium	<1.0	<1.0	100
Total Lead	1.3	8.5	15
Chromate / Hexavalent Chromium	<0.020	<0.020	0.3
Dissolved Chromium	<1.0	<1.0	n/a
Dissolved Lead	<1.0	6.1	n/a
MTBE	<0.5	<0.5	20
pH	7.09	6.03	6.5 – 8.5

The federal and state maximum contaminant level (MCL) for total chromium is 100 μg/L. There is no separate federal or state MCL for hexavalent chromium or for dissolved chromium. The MDE uses 0.3 μg/L as an action level for hexavalent chromium, because that is MDE's conservative lifetime exposure health based standard. The federal and state action level that warrants additional investigation for total lead in public drinking water supplies is 15 μg/L, so the MDE follows this level

as an action level for private water supplies. There is no separate level for dissolved lead. For MTBE, the state action level that warrants corrective measures is 20 µg/L. There is no federal action level for MTBE. The US EPA recommended pH range for drinking water is 6.5 to 8.5.

Hexavalent chromium and lead are metals that can be hazardous to human health. Both metals can occur naturally in the environment or may be generated by human activity. Home water pumps, piping and faucets also are known to be potential sources of lead in drinking water. MTBE is a compound associated with petroleum products.

The MDE and FCHD remind you to properly maintain any filtration equipment you use in your household and to follow all manufacturer recommendations. Additionally, both departments recommend that all private well users follow best practices to protect their wells and their family. This includes flushing your faucet for a few minutes prior to consuming the water, particularly after the water has not been used for an extended period of time.

For questions relating to private drinking water wells, please visit the MDE website at: http://bit.ly/MDEreswells, or call the Water Management Administration at 410-537-3780. If you would like more information about the ongoing petroleum cleanups in the Monrovia area at the former Green Valley Citgo or the Green Valley Garage, please visit the MDE website at: http://bit.ly/MDEoilcontrolremediation, or call the Oil Control Program at 410-537-3443. The FCHD also has information relating to well maintenance and contaminants on its website, including links to the EPA's information on lead and chromium, at: http://bit.ly/FCHDWaterQuality, or call them at 301-600-1717.

Sincerely,

Christopher Ralston, Administrator
Oil Control Program

CHR/nln

Enclosure

cc: Dr. Barbara Brookmyer, FCHD Health Officer
Mr. Jay Sakai, Director, MDE Water Management Administration
Mr. Horacio Tablada, Director, MDE Land Management Administration
Priscilla Carroll, Esq., Assistant Attorney General
Francesca Gibbs, Esq., Assistant Attorney General
M. Albert Figinski, Esq., Law Offices of Peter G. Angelos
Dwight Stone, Esq., Whiteford Taylor Preston

ENVIRO-CHEM LABORATORIES, INC.

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FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 08-Nov-12
REPORT NUMBER: 3491

LAB#- ECL026972-001 SAMPLE ID- 3993 Farm - First Draw
LOCATION- Total
DATE SAMPLED- 10/25/2012 TIME SAMPLED- 7:05 SAMPLER- M. Emery
DATE RECEIVED- 10/25/2012 TIME RECEIVED- 10:05
DELIVERED BY- L. Bennett RECEIVED BY- CHK

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromium	EPA 200.8	10/30/2012 11:39	CHK	< 1.0	μg/L	1.0
Lead	EPA 200.8	10/30/2012 11:39	CHK	1.3	μg/L	1.0

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FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 08-Nov-12
REPORT NUMBER: 3491

LAB#- ECL026972-002 SAMPLE ID- 3993 Farm - First Draw
LOCATION- Dissolved
DATE SAMPLED- 10/25/2012 TIME SAMPLED- 7:05 SAMPLER- M. Emery
DATE RECEIVED- 10/25/2012 TIME RECEIVED- 10:05
DELIVERED BY- L. Bennett RECEIVED BY- CHK

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromate	EPA 218.7	10/28/2012 05:55	SES	< 0.020	ug/L Cr	0.020
Chromium	EPA 200.8	10/30/2012 11:39	CHK	< 1.0	µg/L	1.0
Lead	EPA 200.8	10/30/2012 11:39	CHK	< 1.0	µg/L	1.0

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12102505
Chesapeake GeoSciences, Inc., Columbia, MD
November 8, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3993 Farm-First Draw **Date/Time Sampled: 10/25/2012 07:05** **PSS Sample ID: 12102505-001**
Matrix: WATER **Date/Time Received: 10/25/2012 10:55**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Benzene	ND	ug/L	0.50		1	10/28/12	10/29/12 10:59	1014
Bromodichloromethane	ND	ug/L	0.50		1	10/28/12	10/29/12 10:59	1014
Bromoform	ND	ug/L	5.0		1	10/28/12	10/29/12 10:59	1014
Bromomethane	ND	ug/L	0.50		1	10/28/12	10/29/12 10:59	1014
Carbon Tetrachloride	ND	ug/L	0.50		1	10/28/12	10/29/12 10:59	1014
Chlorobenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 10:59	1014
Chloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 10:59	1014
Chloroform	ND	ug/L	0.50		1	10/28/12	10/29/12 10:59	1014
Chloromethane	ND	ug/L	0.50		1	10/28/12	10/29/12 10:59	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0		1	10/28/12	10/29/12 10:59	1014
Dibromochloromethane	ND	ug/L	0.50		1	10/28/12	10/29/12 10:59	1014
1,2-Dibromoethane	ND	ug/L	0.50		1	10/28/12	10/29/12 10:59	1014
1,2-Dichlorobenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 10:59	1014
1,3-Dichlorobenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 10:59	1014
1,4-Dichlorobenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 10:59	1014
Dichlorodifluoromethane	ND	ug/L	0.50		1	10/28/12	10/29/12 10:59	1014
1,1-Dichloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 10:59	1014
1,2-Dichloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 10:59	1014
cis-1,2-Dichloroethene	ND	ug/L	0.50		1	10/28/12	10/29/12 10:59	1014
trans-1,2-Dichloroethene	ND	ug/L	0.50		1	10/28/12	10/29/12 10:59	1014
1,1-Dichloroethene	ND	ug/L	0.50		1	10/28/12	10/29/12 10:59	1014
1,2-Dichloropropane	ND	ug/L	0.50		1	10/28/12	10/29/12 10:59	1014
Ethylbenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 10:59	1014
Isopropylbenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 10:59	1014
Methyl-t-butyl ether	ND	ug/L	0.50		1	10/28/12	10/29/12 10:59	1014
Naphthalene	ND	ug/L	0.50		1	10/28/12	10/29/12 10:59	1014
Styrene	ND	ug/L	0.50		1	10/28/12	10/29/12 10:59	1014
Diisopropyl ether	ND	ug/L	5.0		1	10/28/12	10/29/12 10:59	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 10:59	1014
Tetrachloroethylene	ND	ug/L	0.50		1	10/28/12	10/29/12 10:59	1014

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12102505
Chesapeake GeoSciences, Inc., Columbia, MD
November 8, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3993 Farm-First Draw **Date/Time Sampled: 10/25/2012 07:05** **PSS Sample ID: 12102505-001**
Matrix: WATER **Date/Time Received: 10/25/2012 10:55**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Toluene	ND	ug/L	0.50		1	10/28/12	10/29/12 10:59	1014
1,2,4-Trichlorobenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 10:59	1014
1,1,1-Trichloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 10:59	1014
1,1,2-Trichloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 10:59	1014
Trichloroethene	ND	ug/L	0.50		1	10/28/12	10/29/12 10:59	1014
Vinyl Chloride	ND	ug/L	0.50		1	10/28/12	10/29/12 10:59	1014
o-Xylene	ND	ug/L	0.50		1	10/28/12	10/29/12 10:59	1014
m,p-Xylenes	ND	ug/L	1.0		1	10/28/12	10/29/12 10:59	1014
tert-Butyl ethyl ether	ND	ug/L	5.0		1	10/28/12	10/29/12 10:59	1014
tert-Butyl alcohol	ND	ug/L	20		1	10/28/12	10/29/12 10:59	1014
tert-Amyl methyl ether	ND	ug/L	5.0		1	10/28/12	10/29/12 10:59	1014

ENVIRO-CHEM LABORATORIES, INC.

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FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 08-Nov-12
REPORT NUMBER: 3491

LAB#- ECL026972-003 SAMPLE ID- 3993 Farm - Flushed
LOCATION- Total
DATE SAMPLED- 10/25/2012 TIME SAMPLED- 7:40 SAMPLER- M. Emery
DATE RECEIVED- 10/25/2012 TIME RECEIVED- 10:05
DELIVERED BY- L. Bennett RECEIVED BY- CHK

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromium	EPA 200.8	10/30/2012 11:39	CHK	< 1.0	µg/L	1.0
Lead	EPA 200.8	10/30/2012 11:39	CHK	8.5	µg/L	1.0

ENVIRO-CHEM LABORATORIES, INC.

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FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 08-Nov-12

REPORT NUMBER: 3491

LAB#- ECL026972-004 SAMPLE ID- 3993 Farm - Flushed
LOCATION- Dissolved
DATE SAMPLED- 10/25/2012 TIME SAMPLED- 7:40 SAMPLER- M. Emery
DATE RECEIVED- 10/25/2012 TIME RECEIVED- 10:05
DELIVERED BY- L. Bennett RECEIVED BY- CHK

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromate	EPA 218.7	10/28/2012 06:14	SES	< 0.020	ug/L Cr	0.020
Chromium	EPA 200.8	10/30/2012 11:39	CHK	< 1.0	µg/L	1.0
Lead	EPA 200.8	10/30/2012 11:39	CHK	6.1	µg/L	1.0

LABORATORY DIRECTOR

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12102505
Chesapeake GeoSciences, Inc., Columbia, MD
November 8, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3993 Farm-Flushed **Date/Time Sampled: 10/25/2012 07:40** **PSS Sample ID: 12102505-002**
Matrix: WATER **Date/Time Received: 10/25/2012 10:55**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Benzene	ND	ug/L	0.50		1	10/28/12	10/29/12 11:42	1014
Bromodichloromethane	ND	ug/L	0.50		1	10/28/12	10/29/12 11:42	1014
Bromoform	ND	ug/L	5.0		1	10/28/12	10/29/12 11:42	1014
Bromomethane	ND	ug/L	0.50		1	10/28/12	10/29/12 11:42	1014
Carbon Tetrachloride	ND	ug/L	0.50		1	10/28/12	10/29/12 11:42	1014
Chlorobenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 11:42	1014
Chloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 11:42	1014
Chloroform	ND	ug/L	0.50		1	10/28/12	10/29/12 11:42	1014
Chloromethane	ND	ug/L	0.50		1	10/28/12	10/29/12 11:42	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0		1	10/28/12	10/29/12 11:42	1014
Dibromochloromethane	ND	ug/L	0.50		1	10/28/12	10/29/12 11:42	1014
1,2-Dibromoethane	ND	ug/L	0.50		1	10/28/12	10/29/12 11:42	1014
1,2-Dichlorobenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 11:42	1014
1,3-Dichlorobenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 11:42	1014
1,4-Dichlorobenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 11:42	1014
Dichlorodifluoromethane	ND	ug/L	0.50		1	10/28/12	10/29/12 11:42	1014
1,1-Dichloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 11:42	1014
1,2-Dichloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 11:42	1014
cis-1,2-Dichloroethene	ND	ug/L	0.50		1	10/28/12	10/29/12 11:42	1014
trans-1,2-Dichloroethene	ND	ug/L	0.50		1	10/28/12	10/29/12 11:42	1014
1,1-Dichloroethene	ND	ug/L	0.50		1	10/28/12	10/29/12 11:42	1014
1,2-Dichloropropane	ND	ug/L	0.50		1	10/28/12	10/29/12 11:42	1014
Ethylbenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 11:42	1014
Isopropylbenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 11:42	1014
Methyl-t-butyl ether	ND	ug/L	0.50		1	10/28/12	10/29/12 11:42	1014
Naphthalene	ND	ug/L	0.50		1	10/28/12	10/29/12 11:42	1014
Styrene	ND	ug/L	0.50		1	10/28/12	10/29/12 11:42	1014
Diisopropyl ether	ND	ug/L	5.0		1	10/28/12	10/29/12 11:42	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 11:42	1014
Tetrachloroethylene	ND	ug/L	0.50		1	10/28/12	10/29/12 11:42	1014

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12102505
Chesapeake GeoSciences, Inc., Columbia, MD
November 8, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3993 Farm-Flushed **Date/Time Sampled: 10/25/2012 07:40** **PSS Sample ID: 12102505-002**

Matrix: WATER **Date/Time Received: 10/25/2012 10:55**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Toluene	ND	ug/L	0.50		1	10/28/12	10/29/12 11:42	1014
1,2,4-Trichlorobenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 11:42	1014
1,1,1-Trichloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 11:42	1014
1,1,2-Trichloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 11:42	1014
Trichloroethene	ND	ug/L	0.50		1	10/28/12	10/29/12 11:42	1014
Vinyl Chloride	ND	ug/L	0.50		1	10/28/12	10/29/12 11:42	1014
o-Xylene	ND	ug/L	0.50		1	10/28/12	10/29/12 11:42	1014
m,p-Xylenes	ND	ug/L	1.0		1	10/28/12	10/29/12 11:42	1014
tert-Butyl ethyl ether	ND	ug/L	5.0		1	10/28/12	10/29/12 11:42	1014
tert-Butyl alcohol	ND	ug/L	20		1	10/28/12	10/29/12 11:42	1014
tert-Amyl methyl ether	ND	ug/L	5.0		1	10/28/12	10/29/12 11:42	1014

MDE

MARYLAND DEPARTMENT OF THE ENVIRONMENT

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410-537-3000 • 1-800-633-6101 • www.mde.state.md.us

Martin O'Malley
Governor

Anthony G. Brown
Lieutenant Governor

Robert M. Summers, Ph.D.
Secretary

December 7, 2012

Mr. and Mrs. Kenneth and Marilyn Jackson
3994 Farm Lane
Monrovia MD 21770

RE: DRINKING WATER SAMPLING RESULTS
MDE-FCHD Groundwater Investigation
Green Valley / Monrovia
Frederick County, Maryland

Dear Mr. and Mrs. Jackson:

On November 9, 2012, the Frederick County Health Department (FCHD) and the Maryland Department of the Environment's (MDE) contractor, sampled your drinking water supply. A first draw sample and a flushed sample were collected from your household plumbing system to investigate the potential presence and source of certain contaminants.

The full laboratory analytical reports are attached. The results related to lead, chromium, methyl tertiary-butyl ether (MTBE), and pH are summarized below for reference. Note that all concentrations are presented as micrograms per liter (μg/L) (also known as parts per billion [ppb]). If the specific substance was not detected, the value is preceded by a "less than" symbol ("<"). Measurements of pH are unitless.

	First Draw	Flushed	MCL/Action Level/Recommended Range
Total Chromium	<1.0	<1.0	100
Total Lead	1.2	<1.0	15
Chromate / Hexavalent Chromium	<0.020	<0.020	0.3
Dissolved Chromium	<1.0	<1.0	n/a
Dissolved Lead	<1.0	<1.0	n/a
MTBE	<0.5	150	20
pH	6.87	6.5	6.5 – 8.5

The federal and state maximum contaminant level (MCL) for total chromium is 100 μg/L. There is no separate federal or state MCL for hexavalent chromium or for dissolved chromium. The MDE uses 0.3 μg/L as an action level for hexavalent chromium, because that is MDE's conservative lifetime exposure health based standard. The federal and state action level that warrants additional investigation for total lead in public drinking water supplies is 15 μg/L, so the MDE follows this level

as an action level for private water supplies. There is no separate level for dissolved lead. For MTBE, the state action level that warrants corrective measures is 20 μg/L. There is no federal action level for MTBE. The US EPA recommended pH range for drinking water is 6.5 to 8.5.

Hexavalent chromium and lead are metals that can be hazardous to human health. Both metals can occur naturally in the environment or may be generated by human activity. Home water pumps, piping, and faucets also are known to be potential sources of lead in drinking water. MTBE is a compound associated with petroleum products.

The MDE and FCHD remind you to properly maintain any filtration equipment you use in your household and to follow all manufacturer recommendations. Additionally, both departments recommend that all private well users follow best practices to protect their wells and their family. This includes flushing your faucet for a few minutes prior to consuming the water, particularly after the water has not been used for an extended period of time.

For questions relating to private drinking water wells, please visit the MDE website at: http://bit.ly/MDEreswells, or call the Water Management Administration at 410-537-3780. If you would like more information about the ongoing petroleum cleanups in the Monrovia area at the former Green Valley Citgo or the Green Valley Garage, please visit the MDE website at: http://bit.ly/MDEoilcontrolremediation, or call the Oil Control Program at 410-537-3443. The FCHD also has information relating to well maintenance and contaminants on its website, including links to the EPA's information on lead and chromium, at: http://bit.ly/FCHDWaterQuality, or call them at 301-600-1717.

Sincerely,

Christopher Ralston, Administrator
Oil Control Program

CHR/nln

Enclosure

cc: Dr. Barbara Brookmyer, FCHD Health Officer
Mr. Jay Sakai, Director, MDE Water Management Administration
Mr. Horacio Tablada, Director, MDE Land Management Administration
Priscilla N. Carroll, Esq., Assistant Attorney General
Francesca Gibbs, Esq., Assistant Attorney General
M. Albert Figinski, Esq., Law Offices of Peter G. Angelos
Dwight Stone, Esq., Whiteford Taylor Preston

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FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 24-Nov-12

REPORT NUMBER: 3651

LAB#- ECL027120-001 SAMPLE ID- 3994 Farm-First Draw
LOCATION- Total
DATE SAMPLED- 11/9/2012 TIME SAMPLED- 6:05 SAMPLER- L. Bennett
DATE RECEIVED- 11/9/2012 TIME RECEIVED- 11:36
DELIVERED BY- L. Bennett RECEIVED BY- JRB

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromium	EPA 200.8	11/13/2012 10:49	MAP	< 1.0	µg/L	1.0
Lead	EPA 200.8	11/13/2012 10:49	MAP	1.2	µg/L	1.0

ENVIRO-CHEM LABORATORIES, INC.

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410-472-1112

FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 24-Nov-12

REPORT NUMBER: 3651

LAB#- ECL027120-002 SAMPLE ID- 3994 Farm-First Draw
LOCATION- Dissolved
DATE SAMPLED- 11/9/2012 TIME SAMPLED- 6:05 SAMPLER- L. Bennett
DATE RECEIVED- 11/9/2012 TIME RECEIVED- 11:36
DELIVERED BY- L. Bennett RECEIVED BY- JRB

Page 2 of 10

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromate	EPA 218.7	11/14/2012 01:37	SES	< 0.020	ug/L Cr	0.020
Chromium	EPA 200.8	11/13/2012 10:49	MAP	< 1.0	µg/L	1.0
Lead	EPA 200.8	11/13/2012 10:49	MAP	< 1.0	µg/L	1.0

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12110915
Chesapeake GeoSciences, Inc., Columbia, MD
November 27, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3994 Farm-First Draw **Date/Time Sampled: 11/09/2012 06:05** **PSS Sample ID: 12110915-001**
Matrix: WATER **Date/Time Received: 11/09/2012 12:20**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Benzene	ND	ug/L	0.50		1	11/15/12	11/15/12 21:18	1014
Bromodichloromethane	ND	ug/L	0.50		1	11/15/12	11/15/12 21:18	1014
Bromoform	ND	ug/L	5.0		1	11/15/12	11/15/12 21:18	1014
Bromomethane	ND	ug/L	0.50		1	11/15/12	11/15/12 21:18	1014
Carbon Tetrachloride	ND	ug/L	0.50		1	11/15/12	11/15/12 21:18	1014
Chlorobenzene	ND	ug/L	0.50		1	11/15/12	11/15/12 21:18	1014
Chloroethane	ND	ug/L	0.50		1	11/15/12	11/15/12 21:18	1014
Chloroform	ND	ug/L	0.50		1	11/15/12	11/15/12 21:18	1014
Chloromethane	**1.0**	ug/L	0.50		1	11/15/12	11/15/12 21:18	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0		1	11/15/12	11/15/12 21:18	1014
Dibromochloromethane	ND	ug/L	0.50		1	11/15/12	11/15/12 21:18	1014
1,2-Dibromoethane	ND	ug/L	0.50		1	11/15/12	11/15/12 21:18	1014
1,2-Dichlorobenzene	ND	ug/L	0.50		1	11/15/12	11/15/12 21:18	1014
1,3-Dichlorobenzene	ND	ug/L	0.50		1	11/15/12	11/15/12 21:18	1014
1,4-Dichlorobenzene	ND	ug/L	0.50		1	11/15/12	11/15/12 21:18	1014
Dichlorodifluoromethane	ND	ug/L	0.50		1	11/15/12	11/15/12 21:18	1014
1,1-Dichloroethane	ND	ug/L	0.50		1	11/15/12	11/15/12 21:18	1014
1,2-Dichloroethane	ND	ug/L	0.50		1	11/15/12	11/15/12 21:18	1014
cis-1,2-Dichloroethene	ND	ug/L	0.50		1	11/15/12	11/15/12 21:18	1014
trans-1,2-Dichloroethene	ND	ug/L	0.50		1	11/15/12	11/15/12 21:18	1014
1,1-Dichloroethene	ND	ug/L	0.50		1	11/15/12	11/15/12 21:18	1014
1,2-Dichloropropane	ND	ug/L	0.50		1	11/15/12	11/15/12 21:18	1014
Ethylbenzene	ND	ug/L	0.50		1	11/15/12	11/15/12 21:18	1014
Isopropylbenzene	ND	ug/L	0.50		1	11/15/12	11/15/12 21:18	1014
Methyl-t-butyl ether	ND	ug/L	0.50		1	11/15/12	11/15/12 21:18	1014
Naphthalene	ND	ug/L	0.50		1	11/15/12	11/15/12 21:18	1014
Styrene	ND	ug/L	0.50		1	11/15/12	11/15/12 21:18	1014
Diisopropyl ether	ND	ug/L	5.0		1	11/15/12	11/15/12 21:18	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50		1	11/15/12	11/15/12 21:18	1014
Tetrachloroethylene	ND	ug/L	0.50		1	11/15/12	11/15/12 21:18	1014

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12110915
Chesapeake GeoSciences, Inc., Columbia, MD
November 27, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3994 Farm-First Draw — **Date/Time Sampled: 11/09/2012 06:05** — **PSS Sample ID: 12110915-001**

Matrix: WATER — **Date/Time Received: 11/09/2012 12:20**

VOC In Drinking Water plus Oxygenates — Analytical Method: EPA 524.2 — Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12110915
Chesapeake GeoSciences, Inc., Columbia, MD
November 27, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3994 Farm-Flushed **Date/Time Sampled: 11/09/2012 06:43** **PSS Sample ID: 12110915-002**
Matrix: WATER **Date/Time Received: 11/09/2012 12:20**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Benzene	ND	ug/L	0.50		1	11/15/12	11/15/12 21:58	1014
Bromodichloromethane	ND	ug/L	0.50		1	11/15/12	11/15/12 21:58	1014
Bromoform	ND	ug/L	5.0		1	11/15/12	11/15/12 21:58	1014
Bromomethane	ND	ug/L	0.50		1	11/15/12	11/15/12 21:58	1014
Carbon Tetrachloride	ND	ug/L	0.50		1	11/15/12	11/15/12 21:58	1014
Chlorobenzene	ND	ug/L	0.50		1	11/15/12	11/15/12 21:58	1014
Chloroethane	ND	ug/L	0.50		1	11/15/12	11/15/12 21:58	1014
Chloroform	ND	ug/L	0.50		1	11/15/12	11/15/12 21:58	1014
Chloromethane	ND	ug/L	0.50		1	11/15/12	11/15/12 21:58	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0		1	11/15/12	11/15/12 21:58	1014
Dibromochloromethane	ND	ug/L	0.50		1	11/15/12	11/15/12 21:58	1014
1,2-Dibromoethane	ND	ug/L	0.50		1	11/15/12	11/15/12 21:58	1014
1,2-Dichlorobenzene	ND	ug/L	0.50		1	11/15/12	11/15/12 21:58	1014
1,3-Dichlorobenzene	ND	ug/L	0.50		1	11/15/12	11/15/12 21:58	1014
1,4-Dichlorobenzene	ND	ug/L	0.50		1	11/15/12	11/15/12 21:58	1014
Dichlorodifluoromethane	ND	ug/L	0.50		1	11/15/12	11/15/12 21:58	1014
1,1-Dichloroethane	ND	ug/L	0.50		1	11/15/12	11/15/12 21:58	1014
1,2-Dichloroethane	ND	ug/L	0.50		1	11/15/12	11/15/12 21:58	1014
cis-1,2-Dichloroethene	ND	ug/L	0.50		1	11/15/12	11/15/12 21:58	1014
trans-1,2-Dichloroethene	ND	ug/L	0.50		1	11/15/12	11/15/12 21:58	1014
1,1-Dichloroethene	ND	ug/L	0.50		1	11/15/12	11/15/12 21:58	1014
1,2-Dichloropropane	ND	ug/L	0.50		1	11/15/12	11/15/12 21:58	1014
Ethylbenzene	ND	ug/L	0.50		1	11/15/12	11/15/12 21:58	1014
Isopropylbenzene	ND	ug/L	0.50		1	11/15/12	11/15/12 21:58	1014
Methyl-t-butyl ether	**150**	ug/L	5.0		10	11/15/12	11/16/12 10:33	1014
Naphthalene	ND	ug/L	0.50		1	11/15/12	11/15/12 21:58	1014
Styrene	ND	ug/L	0.50		1	11/15/12	11/15/12 21:58	1014
Diisopropyl ether	ND	ug/L	5.0		1	11/15/12	11/15/12 21:58	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50		1	11/15/12	11/15/12 21:58	1014
Tetrachloroethylene	ND	ug/L	0.50		1	11/15/12	11/15/12 21:58	1014

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12110915
Chesapeake GeoSciences, Inc., Columbia, MD
November 27, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3994 Farm-Flushed **Date/Time Sampled: 11/09/2012 06:43** **PSS Sample ID: 12110915-002**
Matrix: WATER **Date/Time Received: 11/09/2012 12:20**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Toluene	ND	ug/L	0.50		1	11/15/12	11/15/12 21:58	1014
1,2,4-Trichlorobenzene	ND	ug/L	0.50		1	11/15/12	11/15/12 21:58	1014
1,1,1-Trichloroethane	ND	ug/L	0.50		1	11/15/12	11/15/12 21:58	1014
1,1,2-Trichloroethane	ND	ug/L	0.50		1	11/15/12	11/15/12 21:58	1014
Trichloroethene	ND	ug/L	0.50		1	11/15/12	11/15/12 21:58	1014
Vinyl Chloride	ND	ug/L	0.50		1	11/15/12	11/15/12 21:58	1014
o-Xylene	ND	ug/L	0.50		1	11/15/12	11/15/12 21:58	1014
m,p-Xylenes	ND	ug/L	1.0		1	11/15/12	11/15/12 21:58	1014
tert-Butyl ethyl ether	ND	ug/L	5.0		1	11/15/12	11/15/12 21:58	1014
tert-Butyl alcohol	ND	ug/L	20		1	11/15/12	11/15/12 21:58	1014
tert-Amyl methyl ether	ND	ug/L	5.0		1	11/15/12	11/15/12 21:58	1014

MARYLAND DEPARTMENT OF THE ENVIRONMENT
1800 Washington Boulevard • Baltimore MD 21230
410-537-3000 • 1-800-633-6101 • www.mde.state.md.us

November 16, 2012

Mr. and Mrs. James and Helen Jamitis
3995 Farm Lane
Monrovia MD 21770

RE: DRINKING WATER SAMPLING RESULTS
MDE-FCHD Groundwater Investigation
Green Valley / Monrovia
Frederick County, Maryland

Dear Mr. and Mrs. Jamitis:

On October 24, 2012, the Frederick County Health Department (FCHD) and the Maryland Department of the Environment's (MDE) contractor, sampled your drinking water supply. A first draw sample and a flushed sample were collected from your household plumbing system to investigate the potential presence and source of certain contaminants.

The full laboratory analytical reports are attached. The results related to lead, chromium, methyl tertiary butyl ether (MTBE), and pH are summarized below for reference. Note that all concentrations are presented as micrograms per liter (µg/L) (also known as parts per billion (ppb)). If the specific substance was not detected, the value is preceded by a "less than" symbol ("<"). Measurements of pH are unitless.

	First Draw	Flushed	MCL/Action Level/Recommended Range
Total Chromium	<1.0	<1.0	100
Total Lead	10.7	18.7	15
Chromate / Hexavalent Chromium	<0.020	<0.020	0.3
Dissolved Chromium	<1.0	<1.0	n/a
Dissolved Lead	4.7	13.8	n/a
MTBE	<0.5	<0.5	20
pH	7.1	6.0	6.5 – 8.5

The federal and state maximum contaminant level (MCL) for total chromium is 100 µg/L. There is no separate federal or state MCL for hexavalent chromium or for dissolved chromium. The MDE uses 0.3 µg/L as an action level for hexavalent chromium, because that is MDE's conservative lifetime exposure health based standard. The federal and state action level that warrants additional investigation for total lead in public drinking water supplies is 15 µg/L, so the MDE follows this level

as an action level for private water supplies. There is no separate level for dissolved lead. For MTBE, the state action level that warrants corrective measures is 20 μg/L. There is no federal action level for MTBE. The US EPA recommended pH range for drinking water is 6.5 to 8.5.

Hexavalent chromium and lead are metals that can be hazardous to human health. Both metals can occur naturally in the environment or may be generated by human activity. Home water pumps, piping and faucets also are known to be potential sources of lead in drinking water. MTBE is a compound associated with petroleum products.

The MDE and FCHD remind you to properly maintain any filtration equipment you use in your household and to follow all manufacturer recommendations. Additionally, both departments recommend that all private well users follow best practices to protect their wells and their family. This includes flushing your faucet for a few minutes prior to consuming the water, particularly after the water has not been used for an extended period of time.

For questions relating to private drinking water wells, please visit the MDE website at: http://bit.ly/MDEreswells, or call the Water Management Administration at 410-537-3780. If you would like more information about the ongoing petroleum cleanups in the Monrovia area at the former Green Valley Citgo or the Green Valley Garage, please visit the MDE website at: http://bit.ly/MDEoilcontrolremediation, or call the Oil Control Program at 410-537-3443. The FCHD also has information relating to well maintenance and contaminants on its website, including links to the EPA's information on lead and chromium, at: http://bit.ly/FCHDWaterQuality, or call them at 301-600-1717.

Sincerely,

Christopher Ralston, Administrator
Oil Control Program

CHR/nln

Enclosure

cc: Dr. Barbara Brookmyer, FCHD Health Officer
Mr. Jay Sakai, Director, MDE Water Management Administration
Mr. Horacio Tablada, Director, MDE Land Management Administration
Priscilla Carroll, Esq., Assistant Attorney General
Francesca Gibbs, Esq., Assistant Attorney General
M. Albert Figinski, Esq., Law Offices of Peter G. Angelos
Dwight Stone, Esq., Whiteford Taylor Preston

ENVIRO-CHEM LABORATORIES, INC.

47 Loveton Circle, Suite K • Sparks, Maryland 21152 410-472-1112

FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 08-Nov-12
REPORT NUMBER: 3486

LAB#- ECL026962-005 SAMPLE ID- 3995 Farm-First Draw
LOCATION- Total
DATE SAMPLED- 10/24/2012 TIME SAMPLED- 8:20 SAMPLER- L. Bennett
DATE RECEIVED- 10/24/2012 TIME RECEIVED- 10:40
DELIVERED BY- L. Bennett RECEIVED BY- SES

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromium	EPA 200.8	10/30/2012 11:39	CHK	< 1.0	µg/L	1.0
Lead	EPA 200.8	10/30/2012 11:39	CHK	10.7	µg/L	1.0

ENVIRO-CHEM
LABORATORIES, INC.

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FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 08-Nov-12

REPORT NUMBER: 3486

LAB#- ECL026962-006 SAMPLE ID- 3995 Farm-First Draw
LOCATION- Dissolved
DATE SAMPLED- 10/24/2012 TIME SAMPLED- 8:20 SAMPLER- L. Bennett
DATE RECEIVED- 10/24/2012 TIME RECEIVED- 10:40
DELIVERED BY- L. Bennett RECEIVED BY- SES

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromate	EPA 218.7	10/28/2012 05:17	SES	< 0.020	ug/L Cr	0.020
Chromium	EPA 200.8	10/30/2012 11:39	CHK	< 1.0	µg/L	1.0
Lead	EPA 200.8	10/30/2012 11:39	CHK	4.7	µg/L	1.0

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12102401
Chesapeake GeoSciences, Inc., Columbia, MD
November 7, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3995 Farm-First Draw | **Date/Time Sampled: 10/24/2012 08:20** | **PSS Sample ID: 12102401-004**
Matrix: WATER | **Date/Time Received: 10/24/2012 11:20**

VOC In Drinking Water plus Oxygenates | Analytical Method: EPA 524.2 | Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Benzene	ND	ug/L	0.50		1	10/28/12	10/29/12 13:07	1014
Bromodichloromethane	ND	ug/L	0.50		1	10/28/12	10/29/12 13:07	1014
Bromoform	ND	ug/L	5.0		1	10/28/12	10/29/12 13:07	1014
Bromomethane	ND	ug/L	0.50		1	10/28/12	10/29/12 13:07	1014
Carbon Tetrachloride	ND	ug/L	0.50		1	10/28/12	10/29/12 13:07	1014
Chlorobenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 13:07	1014
Chloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 13:07	1014
Chloroform	ND	ug/L	0.50		1	10/28/12	10/29/12 13:07	1014
Chloromethane	ND	ug/L	0.50		1	10/28/12	10/29/12 13:07	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0		1	10/28/12	10/29/12 13:07	1014
Dibromochloromethane	ND	ug/L	0.50		1	10/28/12	10/29/12 13:07	1014
1,2-Dibromoethane	ND	ug/L	0.50		1	10/28/12	10/29/12 13:07	1014
1,2-Dichlorobenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 13:07	1014
1,3-Dichlorobenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 13:07	1014
1,4-Dichlorobenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 13:07	1014
Dichlorodifluoromethane	ND	ug/L	0.50		1	10/28/12	10/29/12 13:07	1014
1,1-Dichloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 13:07	1014
1,2-Dichloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 13:07	1014
cis-1,2-Dichloroethene	ND	ug/L	0.50		1	10/28/12	10/29/12 13:07	1014
trans-1,2-Dichloroethene	ND	ug/L	0.50		1	10/28/12	10/29/12 13:07	1014
1,1-Dichloroethene	ND	ug/L	0.50		1	10/28/12	10/29/12 13:07	1014
1,2-Dichloropropane	ND	ug/L	0.50		1	10/28/12	10/29/12 13:07	1014
Ethylbenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 13:07	1014
Isopropylbenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 13:07	1014
Methyl-t-butyl ether	ND	ug/L	0.50		1	10/28/12	10/29/12 13:07	1014
Naphthalene	ND	ug/L	0.50		1	10/28/12	10/29/12 13:07	1014
Styrene	ND	ug/L	0.50		1	10/28/12	10/29/12 13:07	1014
Diisopropyl ether	ND	ug/L	5.0		1	10/28/12	10/29/12 13:07	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 13:07	1014
Tetrachloroethylene	ND	ug/L	0.50		1	10/28/12	10/29/12 13:07	1014

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12102401
Chesapeake GeoSciences, Inc., Columbia, MD
November 7, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3995 Farm-First Draw **Date/Time Sampled: 10/24/2012 08:20** **PSS Sample ID: 12102401-004**
Matrix: WATER **Date/Time Received: 10/24/2012 11:20**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Toluene	ND	ug/L	0.50		1	10/28/12	10/29/12 13:07	1014
1,2,4-Trichlorobenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 13:07	1014
1,1,1-Trichloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 13:07	1014
1,1,2-Trichloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 13:07	1014
Trichloroethene	ND	ug/L	0.50		1	10/28/12	10/29/12 13:07	1014
Vinyl Chloride	ND	ug/L	0.50		1	10/28/12	10/29/12 13:07	1014
o-Xylene	ND	ug/L	0.50		1	10/28/12	10/29/12 13:07	1014
m,p-Xylenes	ND	ug/L	1.0		1	10/28/12	10/29/12 13:07	1014
tert-Butyl ethyl ether	ND	ug/L	5.0		1	10/28/12	10/29/12 13:07	1014
tert-Butyl alcohol	ND	ug/L	20		1	10/28/12	10/29/12 13:07	1014
tert-Amyl methyl ether	ND	ug/L	5.0		1	10/28/12	10/29/12 13:07	1014

ENVIRO-CHEM LABORATORIES, INC.

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FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 08-Nov-12
REPORT NUMBER: 3486

LAB#- ECL026962-007 SAMPLE ID- 3995 Farm-Flushed
LOCATION- Total
DATE SAMPLED- 10/24/2012 TIME SAMPLED- 8:55 SAMPLER- L. Bennett
DATE RECEIVED- 10/24/2012 TIME RECEIVED- 10:40
DELIVERED BY- L. Bennett RECEIVED BY- SES

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromium	EPA 200.8	10/30/2012 11:39	CHK	< 1.0	µg/L	1.0
Lead	EPA 200.8	10/30/2012 11:39	CHK	18.7	µg/L	1.0

ENVIRO-CHEM LABORATORIES, INC.

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FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 08-Nov-12
REPORT NUMBER: 3486

LAB#- ECL026962-008 SAMPLE ID- 3995 Farm-Flushed
LOCATION- Dissolved
DATE SAMPLED- 10/24/2012 TIME SAMPLED- 8:55 SAMPLER- L. Bennett
DATE RECEIVED- 10/24/2012 TIME RECEIVED- 10:40
DELIVERED BY- L. Bennett RECEIVED BY- SES

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromate	EPA 218.7	10/28/2012 05:36	SES	< 0.020	ug/L Cr	0.020
Chromium	EPA 200.8	10/30/2012 11:39	CHK	< 1.0	µg/L	1.0
Lead	EPA 200.8	10/30/2012 11:39	CHK	13.8	µg/L	1.0

LABORATORY DIRECTOR

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12102401
Chesapeake GeoSciences, Inc., Columbia, MD
November 7, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3995 Farm-Flushed | **Date/Time Sampled: 10/24/2012 08:55** | **PSS Sample ID: 12102401-005**
Matrix: WATER | **Date/Time Received: 10/24/2012 11:20**

VOC In Drinking Water plus Oxygenates | Analytical Method: EPA 524.2 | Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Benzene	ND	ug/L	0.50		1	10/28/12	10/29/12 05:58	1014
Bromodichloromethane	ND	ug/L	0.50		1	10/28/12	10/29/12 05:58	1014
Bromoform	ND	ug/L	5.0		1	10/28/12	10/29/12 05:58	1014
Bromomethane	ND	ug/L	0.50		1	10/28/12	10/29/12 05:58	1014
Carbon Tetrachloride	ND	ug/L	0.50		1	10/28/12	10/29/12 05:58	1014
Chlorobenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 05:58	1014
Chloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 05:58	1014
Chloroform	ND	ug/L	0.50		1	10/28/12	10/29/12 05:58	1014
Chloromethane	ND	ug/L	0.50		1	10/28/12	10/29/12 05:58	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0		1	10/28/12	10/29/12 05:58	1014
Dibromochloromethane	ND	ug/L	0.50		1	10/28/12	10/29/12 05:58	1014
1,2-Dibromoethane	ND	ug/L	0.50		1	10/28/12	10/29/12 05:58	1014
1,2-Dichlorobenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 05:58	1014
1,3-Dichlorobenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 05:58	1014
1,4-Dichlorobenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 05:58	1014
Dichlorodifluoromethane	ND	ug/L	0.50		1	10/28/12	10/29/12 05:58	1014
1,1-Dichloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 05:58	1014
1,2-Dichloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 05:58	1014
cis-1,2-Dichloroethene	ND	ug/L	0.50		1	10/28/12	10/29/12 05:58	1014
trans-1,2-Dichloroethene	ND	ug/L	0.50		1	10/28/12	10/29/12 05:58	1014
1,1-Dichloroethene	ND	ug/L	0.50		1	10/28/12	10/29/12 05:58	1014
1,2-Dichloropropane	ND	ug/L	0.50		1	10/28/12	10/29/12 05:58	1014
Ethylbenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 05:58	1014
Isopropylbenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 05:58	1014
Methyl-t-butyl ether	ND	ug/L	0.50		1	10/28/12	10/29/12 05:58	1014
Naphthalene	ND	ug/L	0.50		1	10/28/12	10/29/12 05:58	1014
Styrene	ND	ug/L	0.50		1	10/28/12	10/29/12 05:58	1014
Diisopropyl ether	ND	ug/L	5.0		1	10/28/12	10/29/12 05:58	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 05:58	1014
Tetrachloroethylene	ND	ug/L	0.50		1	10/28/12	10/29/12 05:58	1014

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12102401
Chesapeake GeoSciences, Inc., Columbia, MD
November 7, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3995 Farm-Flushed **Date/Time Sampled: 10/24/2012 08:55** **PSS Sample ID: 12102401-005**
Matrix: WATER **Date/Time Received: 10/24/2012 11:20**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Toluene	ND	ug/L	0.50		1	10/28/12	10/29/12 05:58	1014
1,2,4-Trichlorobenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 05:58	1014
1,1,1-Trichloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 05:58	1014
1,1,2-Trichloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 05:58	1014
Trichloroethene	ND	ug/L	0.50		1	10/28/12	10/29/12 05:58	1014
Vinyl Chloride	ND	ug/L	0.50		1	10/28/12	10/29/12 05:58	1014
o-Xylene	ND	ug/L	0.50		1	10/28/12	10/29/12 05:58	1014
m,p-Xylenes	ND	ug/L	1.0		1	10/28/12	10/29/12 05:58	1014
tert-Butyl ethyl ether	ND	ug/L	5.0		1	10/28/12	10/29/12 05:58	1014
tert-Butyl alcohol	ND	ug/L	20		1	10/28/12	10/29/12 05:58	1014
tert-Amyl methyl ether	ND	ug/L	5.0		1	10/28/12	10/29/12 05:58	1014

MARYLAND DEPARTMENT OF THE ENVIRONMENT
1800 Washington Boulevard • Baltimore MD 21230
410-537-3000 • 1-800-633-6101 • www.mde.state.md.us

Martin O'Malley
Governor

Anthony G. Brown
Lieutenant Governor

Robert M. Summers, Ph.D.
Secretary

November 16, 2012

Mr. and Mrs. Santiago and Melissa Ayala
3996 Farm Lane
Monrovia MD 21770

RE: DRINKING WATER SAMPLING RESULTS
MDE-FCHD Groundwater Investigation
Green Valley / Monrovia
Frederick County, Maryland

Dear Mr. and Mrs. Ayala:

On October 24, 2012, the Frederick County Health Department (FCHD) and the Maryland Department of the Environment's (MDE) contractor, sampled your drinking water supply. A first draw sample and a flushed sample were collected from your household plumbing system to investigate the potential presence and source of certain contaminants.

The full laboratory analytical reports are attached. The results related to lead, chromium, methyl tertiary butyl ether (MTBE), and pH are summarized below for reference. Note that all concentrations are presented as micrograms per liter (μg/L) (also known as parts per billion [ppb]). If the specific substance was not detected, the value is preceded by a "less than" symbol ("<"). Measurements of pH are unitless.

	First Draw	Flushed	MCL/Action Level/Recommended Range
Total Chromium	<1.0	<1.0	100
Total Lead	19.2	<1.0	15
Chromate / Hexavalent Chromium	<0.020	<0.020	0.3
Dissolved Chromium	<1.0	<1.0	n/a
Dissolved Lead	7.4	<1.0	n/a
MTBE	<0.5	79	20
pH	5.84	6.3	6.5 – 8.5

The federal and state maximum contaminant level (MCL) for total chromium is 100 μg/L. There is no separate federal or state MCL for hexavalent chromium or for dissolved chromium. The MDE uses 0.3 μg/L as an action level for hexavalent chromium, because that is MDE's conservative lifetime exposure health based standard. The federal and state action level that warrants additional investigation for total lead in public drinking water supplies is 15 μg/L, so the MDE follows this level

as an action level for private water supplies. There is no separate level for dissolved lead. For MTBE, the state action level that warrants corrective measures is 20 μg/L. There is no federal action level for MTBE. There is no federal or state MCL or action level for tertiary butyl alcohol (TBA). The US EPA recommended pH range for drinking water is 6.5 to 8.5.

Hexavalent chromium and lead are metals that can be hazardous to human health. Both metals can occur naturally in the environment or may be generated by human activity. Home water pumps, piping and faucets also are known to be potential sources of lead in drinking water. MTBE is a compound associated with petroleum products. TBA is an oxygenate that is added to gasoline and is also a breakdown product of MTBE.

The MDE and FCHD remind you to properly maintain any filtration equipment you use in your household and to follow all manufacturer recommendations. Additionally, both departments recommend that all private well users follow best practices to protect their wells and their family. This includes flushing your faucet for a few minutes prior to consuming the water, particularly after the water has not been used for an extended period of time.

For questions relating to private drinking water wells, please visit the MDE website at: http://bit.ly/MDEreswells, or call the Water Management Administration at 410-537-3780. If you would like more information about the ongoing petroleum cleanups in the Monrovia area at the former Green Valley Citgo or the Green Valley Garage, please visit the MDE website at: http://bit.ly/MDEoilcontrolremediation, or call the Oil Control Program at 410-537-3443. The FCHD also has information relating to well maintenance and contaminants on its website, including links to the EPA's information on lead and chromium, at: http://bit.ly/FCHDWaterQuality, or call them at 301-600-1717.

Sincerely,

Christopher Ralston, Administrator
Oil Control Program

CHR/nln

Enclosure

cc: Dr. Barbara Brookmyer, FCHD Health Officer
Mr. Jay Sakai, Director, MDE Water Management Administration
Mr. Horacio Tablada, Director, MDE Land Management Administration
Priscilla Carroll, Esq., Assistant Attorney General
Francesca Gibbs, Esq., Assistant Attorney General
M. Albert Figinski, Esq., Law Offices of Peter G. Angelos
Dwight Stone, Esq., Whiteford Taylor Preston

ENVIRO-CHEM LABORATORIES, INC.

47 Loveton Circle, Suite K • Sparks, Maryland 21152 410-472-1112

FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 08-Nov-12
REPORT NUMBER: 3492

LAB#- ECL026973-005 SAMPLE ID- 3996 Farm - First Draw
LOCATION- Total
DATE SAMPLED- 10/24/2012 TIME SAMPLED- 16:15 SAMPLER- M. Emery
DATE RECEIVED- 10/25/2012 TIME RECEIVED- 10:05
DELIVERED BY- L. Bennett RECEIVED BY- CHK

Page 5 of 10

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromium	EPA 200.8	10/30/2012 11:39	CHK	< 1.0	µg/L	1.0
Lead	EPA 200.8	10/30/2012 11:39	CHK	19.2	µg/L	1.0

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FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 08-Nov-12
REPORT NUMBER: 3492

LAB#- ECL026973-006 SAMPLE ID- 3996 Farm - First Draw
LOCATION- Dissolved
DATE SAMPLED- 10/24/2012 TIME SAMPLED- 16:15 SAMPLER- M. Emery
DATE RECEIVED- 10/25/2012 TIME RECEIVED- 10:05
DELIVERED BY- L. Bennett RECEIVED BY- CHK

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromate	EPA 218.7	10/28/2012 07:48	SES	< 0.020	ug/L Cr	0.020
Chromium	EPA 200.8	10/30/2012 11:39	CHK	< 1.0	µg/L	1.0
Lead	EPA 200.8	10/30/2012 11:39	CHK	7.4	µg/L	1.0

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12102504
Chesapeake GeoSciences, Inc., Columbia, MD
November 8, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3996 Farm-First Draw **Date/Time Sampled: 10/24/2012 16:15** **PSS Sample ID: 12102504-003**
Matrix: WATER **Date/Time Received: 10/25/2012 10:55**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Benzene	ND	ug/L	0.50		1	10/28/12	10/29/12 08:06	1014
Bromodichloromethane	ND	ug/L	0.50		1	10/28/12	10/29/12 08:06	1014
Bromoform	ND	ug/L	5.0		1	10/28/12	10/29/12 08:06	1014
Bromomethane	ND	ug/L	0.50		1	10/28/12	10/29/12 08:06	1014
Carbon Tetrachloride	ND	ug/L	0.50		1	10/28/12	10/29/12 08:06	1014
Chlorobenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 08:06	1014
Chloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 08:06	1014
Chloroform	ND	ug/L	0.50		1	10/28/12	10/29/12 08:06	1014
Chloromethane	ND	ug/L	0.50		1	10/28/12	10/29/12 08:06	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0		1	10/28/12	10/29/12 08:06	1014
Dibromochloromethane	ND	ug/L	0.50		1	10/28/12	10/29/12 08:06	1014
1,2-Dibromoethane	ND	ug/L	0.50		1	10/28/12	10/29/12 08:06	1014
1,2-Dichlorobenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 08:06	1014
1,3-Dichlorobenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 08:06	1014
1,4-Dichlorobenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 08:06	1014
Dichlorodifluoromethane	ND	ug/L	0.50		1	10/28/12	10/29/12 08:06	1014
1,1-Dichloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 08:06	1014
1,2-Dichloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 08:06	1014
cis-1,2-Dichloroethene	ND	ug/L	0.50		1	10/28/12	10/29/12 08:06	1014
trans-1,2-Dichloroethene	ND	ug/L	0.50		1	10/28/12	10/29/12 08:06	1014
1,1-Dichloroethene	ND	ug/L	0.50		1	10/28/12	10/29/12 08:06	1014
1,2-Dichloropropane	ND	ug/L	0.50		1	10/28/12	10/29/12 08:06	1014
Ethylbenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 08:06	1014
Isopropylbenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 08:06	1014
Methyl-t-butyl ether	ND	ug/L	0.50		1	10/28/12	10/29/12 08:06	1014
Naphthalene	ND	ug/L	0.50		1	10/28/12	10/29/12 08:06	1014
Styrene	ND	ug/L	0.50		1	10/28/12	10/29/12 08:06	1014
Diisopropyl ether	ND	ug/L	5.0		1	10/28/12	10/29/12 08:06	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 08:06	1014
Tetrachloroethylene	ND	ug/L	0.50		1	10/28/12	10/29/12 08:06	1014

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12102504
Chesapeake GeoSciences, Inc., Columbia, MD
November 8, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3996 Farm-First Draw **Date/Time Sampled: 10/24/2012 16:15** **PSS Sample ID: 12102504-003**
Matrix: WATER **Date/Time Received: 10/25/2012 10:55**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Toluene	ND	ug/L	0.50		1	10/28/12	10/29/12 08:06	1014
1,2,4-Trichlorobenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 08:06	1014
1,1,1-Trichloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 08:06	1014
1,1,2-Trichloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 08:06	1014
Trichloroethene	ND	ug/L	0.50		1	10/28/12	10/29/12 08:06	1014
Vinyl Chloride	ND	ug/L	0.50		1	10/28/12	10/29/12 08:06	1014
o-Xylene	ND	ug/L	0.50		1	10/28/12	10/29/12 08:06	1014
m,p-Xylenes	ND	ug/L	1.0		1	10/28/12	10/29/12 08:06	1014
tert-Butyl ethyl ether	ND	ug/L	5.0		1	10/28/12	10/29/12 08:06	1014
tert-Butyl alcohol	**29**	ug/L	20		1	10/28/12	10/29/12 08:06	1014
tert-Amyl methyl ether	ND	ug/L	5.0		1	10/28/12	10/29/12 08:06	1014

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FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 08-Nov-12
REPORT NUMBER: 3492

LAB#- ECL026973-007 SAMPLE ID- 3996 Farm - Flushed
LOCATION- Total
DATE SAMPLED- 10/24/2012 TIME SAMPLED- 16:40 SAMPLER- M. Emery
DATE RECEIVED- 10/25/2012 TIME RECEIVED- 10:05
DELIVERED BY- L. Bennett RECEIVED BY- CHK

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromium	EPA 200.8	10/30/2012 11:39	CHK	< 1.0	μg/L	1.0
Lead	EPA 200.8	10/30/2012 11:39	CHK	< 1.0	μg/L	1.0

ENVIRO-CHEM LABORATORIES, INC.

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FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
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Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 08-Nov-12
REPORT NUMBER: 3492

LAB#- ECL026973-008   SAMPLE ID- 3996 Farm - Flushed
LOCATION- Dissolved
DATE SAMPLED- 10/24/2012   TIME SAMPLED- 16:40   SAMPLER- M. Emery
DATE RECEIVED- 10/25/2012   TIME RECEIVED- 10:05
DELIVERED BY- L. Bennett   RECEIVED BY- CHK

Page 8 of 10

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromate	EPA 218.7	10/28/2012 08:07	SES	< 0.020	ug/L Cr	0.020
Chromium	EPA 200.8	10/30/2012 11:39	CHK	< 1.0	µg/L	1.0
Lead	EPA 200.8	10/30/2012 11:39	CHK	< 1.0	µg/L	1.0

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12102504
Chesapeake GeoSciences, Inc., Columbia, MD
November 8, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3996 Farm-Flushed **Date/Time Sampled: 10/24/2012 16:40** **PSS Sample ID: 12102504-004**
Matrix: WATER **Date/Time Received: 10/25/2012 10:55**

VOC in Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Benzene	ND	ug/L	0.50		1	10/28/12	10/29/12 08:49	1014
Bromodichloromethane	ND	ug/L	0.50		1	10/28/12	10/29/12 08:49	1014
Bromoform	ND	ug/L	5.0		1	10/28/12	10/29/12 08:49	1014
Bromomethane	ND	ug/L	0.50		1	10/28/12	10/29/12 08:49	1014
Carbon Tetrachloride	ND	ug/L	0.50		1	10/28/12	10/29/12 08:49	1014
Chlorobenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 08:49	1014
Chloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 08:49	1014
Chloroform	ND	ug/L	0.50		1	10/28/12	10/29/12 08:49	1014
Chloromethane	ND	ug/L	0.50		1	10/28/12	10/29/12 08:49	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0		1	10/28/12	10/29/12 08:49	1014
Dibromochloromethane	ND	ug/L	0.50		1	10/28/12	10/29/12 08:49	1014
1,2-Dibromoethane	ND	ug/L	0.50		1	10/28/12	10/29/12 08:49	1014
1,2-Dichlorobenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 08:49	1014
1,3-Dichlorobenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 08:49	1014
1,4-Dichlorobenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 08:49	1014
Dichlorodifluoromethane	ND	ug/L	0.50		1	10/28/12	10/29/12 08:49	1014
1,1-Dichloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 08:49	1014
1,2-Dichloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 08:49	1014
cis-1,2-Dichloroethene	ND	ug/L	0.50		1	10/28/12	10/29/12 08:49	1014
trans-1,2-Dichloroethene	ND	ug/L	0.50		1	10/28/12	10/29/12 08:49	1014
1,1-Dichloroethene	ND	ug/L	0.50		1	10/28/12	10/29/12 08:49	1014
1,2-Dichloropropane	ND	ug/L	0.50		1	10/28/12	10/29/12 08:49	1014
Ethylbenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 08:49	1014
Isopropylbenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 08:49	1014
Methyl-t-butyl ether	79	ug/L	5.0		10	10/28/12	11/01/12 22:54	1014
Naphthalene	ND	ug/L	0.50		1	10/28/12	10/29/12 08:49	1014
Styrene	ND	ug/L	0.50		1	10/28/12	10/29/12 08:49	1014
Diisopropyl ether	ND	ug/L	5.0		1	10/28/12	10/29/12 08:49	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 08:49	1014
Tetrachloroethylene	ND	ug/L	0.50		1	10/28/12	10/29/12 08:49	1014

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12102504
Chesapeake GeoSciences, Inc., Columbia, MD
November 8, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3996 Farm-Flushed **Date/Time Sampled: 10/24/2012 16:40** **PSS Sample ID: 12102504-004**
Matrix: WATER **Date/Time Received: 10/25/2012 10:55**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Toluene	ND	ug/L	0.50		1	10/28/12	10/29/12 08:49	1014
1,2,4-Trichlorobenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 08:49	1014
1,1,1-Trichloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 08:49	1014
1,1,2-Trichloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 08:49	1014
Trichloroethene	ND	ug/L	0.50		1	10/28/12	10/29/12 08:49	1014
Vinyl Chloride	ND	ug/L	0.50		1	10/28/12	10/29/12 08:49	1014
o-Xylene	ND	ug/L	0.50		1	10/28/12	10/29/12 08:49	1014
m,p-Xylenes	ND	ug/L	1.0		1	10/28/12	10/29/12 08:49	1014
tert-Butyl ethyl ether	ND	ug/L	5.0		1	10/28/12	10/29/12 08:49	1014
tert-Butyl alcohol	**22**	ug/L	20		1	10/28/12	10/29/12 08:49	1014
tert-Amyl methyl ether	ND	ug/L	5.0		1	10/28/12	10/29/12 08:49	1014

MARYLAND DEPARTMENT OF THE ENVIRONMENT
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Martin O'Malley
Governor

Anthony G. Brown
Lieutenant Governor

Robert M. Summers, Ph.D.
Secretary

November 16, 2012

Mr. Leonard G. Szeliga
3997 Farm Lane
Monrovia MD 21770

RE: DRINKING WATER SAMPLING RESULTS
MDE-FCHD Groundwater Investigation
Green Valley / Monrovia
Frederick County, Maryland

Dear Mr. Szeliga:

On October 23, 2012, the Frederick County Health Department (FCHD) and the Maryland Department of the Environment's (MDE) contractor, sampled your drinking water supply. A first draw sample and a flushed sample were collected from your household plumbing system to investigate the potential presence and source of certain contaminants.

The full laboratory analytical reports are attached. The results related to lead, chromium, methyl tertiary butyl ether (MTBE), and pH are summarized below for reference. Note that all concentrations are presented as micrograms per liter (μg/L) (also known as parts per billion (ppb)). If the specific substance was not detected, the value is preceded by a "less than" symbol ("<"). Measurements of pH are unitless.

	First Draw	Flushed	MCL/Action Level/Recommended Range
Total Chromium	<1.0	5.0	100
Total Lead	14.9	2.7	15
Chromate / Hexavalent Chromium	<0.020	0.152	0.3
Dissolved Chromium	<1.0	3.8	n/a
Dissolved Lead	10.8	2.5	n/a
MTBE	<0.5	2.5	20
pH	6.1	5.97	6.5 – 8.5

The federal and state maximum contaminant level (MCL) for total chromium is 100 μg/L. There is no separate federal or state MCL for hexavalent chromium or for dissolved chromium. The MDE uses 0.3 μg/L as an action level for hexavalent chromium, because that is MDE's conservative lifetime exposure health based standard. The federal and state action level that warrants additional investigation for total lead in public drinking water supplies is 15 μg/L, so the MDE follows this level

as an action level for private water supplies. There is no separate level for dissolved lead. For MTBE, the state action level that warrants corrective measures is 20 µg/L. There is no federal action level for MTBE. The US EPA recommended pH range for drinking water is 6.5 to 8.5.

Hexavalent chromium and lead are metals that can be hazardous to human health. Both metals can occur naturally in the environment or may be generated by human activity. Home water pumps, piping and faucets also are known to be potential sources of lead in drinking water. MTBE is a compound associated with petroleum products.

The MDE and FCHD remind you to properly maintain any filtration equipment you use in your household and to follow all manufacturer recommendations. Additionally, both departments recommend that all private well users follow best practices to protect their wells and their family. This includes flushing your faucet for a few minutes prior to consuming the water, particularly after the water has not been used for an extended period of time.

For questions relating to private drinking water wells, please visit the MDE website at: http://bit.ly/MDEreswells, or call the Water Management Administration at 410-537-3780. If you would like more information about the ongoing petroleum cleanups in the Monrovia area at the former Green Valley Citgo or the Green Valley Garage, please visit the MDE website at: http://bit.ly/MDEoilcontrolremediation, or call the Oil Control Program at 410-537-3443. The FCHD also has information relating to well maintenance and contaminants on its website, including links to the EPA's information on lead and chromium, at: http://bit.ly/FCHDWaterQuality, or call them at 301-600-1717.

Sincerely,

Christopher Ralston, Administrator
Oil Control Program

CHR/nln

Enclosure

cc: Dr. Barbara Brookmyer, FCHD Health Officer
Mr. Jay Sakai, Director, MDE Water Management Administration
Mr. Horacio Tablada, Director, MDE Land Management Administration
Priscilla Carroll, Esq., Assistant Attorney General
Francesca Gibbs, Esq., Assistant Attorney General
M. Albert Figinski, Esq., Law Offices of Peter G. Angelos
Dwight Stone, Esq., Whiteford Taylor Preston

ENVIRO-CHEM LABORATORIES, INC.

47 Loveton Circle, Suite K • Sparks, Maryland 21152 410-472-1112

FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 08-Nov-12
REPORT NUMBER: 3485

LAB#- ECL026945-001 SAMPLE ID- 3997 Farm-First Draw
LOCATION- Total
DATE SAMPLED- 10/23/2012 TIME SAMPLED- 8:00 SAMPLER- L. Bennett
DATE RECEIVED- 10/23/2012 TIME RECEIVED- 10:20
DELIVERED BY- L. Bennett RECEIVED BY- SES

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromium	EPA 200.8	10/30/2012 11:39	CHK	< 1.0	µg/L	1.0
Lead	EPA 200.8	10/30/2012 11:39	CHK	14.9	µg/L	1.0

ENVIRO-CHEM LABORATORIES, INC.

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410-472-1112

FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 08-Nov-12

REPORT NUMBER: 3485

LAB#- ECL026945-002 SAMPLE ID- 3997 Farm-First Draw
LOCATION- Dissolved
DATE SAMPLED- 10/23/2012 TIME SAMPLED- 8:00 SAMPLER- L. Bennett
DATE RECEIVED- 10/23/2012 TIME RECEIVED- 10:20
DELIVERED BY- L. Bennett RECEIVED BY- SES

Page 2 of 4

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromate	EPA 218.7	10/28/2012 02:52	SES	< 0.020	ug/L Cr	0.020
Chromium	EPA 200.8	10/30/2012 11:39	CHK	< 1.0	µg/L	1.0
Lead	EPA 200.8	10/30/2012 11:39	CHK	10.8	µg/L	1.0

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BALTIMORE, MD 21228
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800-932-9047
FAX 410-788-8723

PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12102316
Chesapeake GeoSciences, Inc., Columbia, MD
November 6, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3997 Farm-First Draw **Date/Time Sampled: 10/23/2012 08:00** **PSS Sample ID: 12102316-002**
Matrix: WATER **Date/Time Received: 10/23/2012 11:00**
VOC in Drinking Water plus Oxygenates *Analytical Method: EPA 524.2* Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Benzene	ND	ug/L	0.50		1	10/27/12	10/28/12 05:16	1014
Bromodichloromethane	ND	ug/L	0.50		1	10/27/12	10/28/12 05:16	1014
Bromoform	ND	ug/L	5.0		1	10/27/12	10/28/12 05:16	1014
Bromomethane	ND	ug/L	0.50		1	10/27/12	10/28/12 05:16	1014
Carbon Tetrachloride	ND	ug/L	0.50		1	10/27/12	10/28/12 05:16	1014
Chlorobenzene	ND	ug/L	0.50		1	10/27/12	10/28/12 05:16	1014
Chloroethane	ND	ug/L	0.50		1	10/27/12	10/28/12 05:16	1014
Chloroform	ND	ug/L	0.50		1	10/27/12	10/28/12 05:16	1014
Chloromethane	ND	ug/L	0.50		1	10/27/12	10/28/12 05:16	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0		1	10/27/12	10/28/12 05:16	1014
Dibromochloromethane	ND	ug/L	0.50		1	10/27/12	10/28/12 05:16	1014
1,2-Dibromoethane	ND	ug/L	0.50		1	10/27/12	10/28/12 05:16	1014
1,2-Dichlorobenzene	ND	ug/L	0.50		1	10/27/12	10/28/12 05:16	1014
1,3-Dichlorobenzene	ND	ug/L	0.50		1	10/27/12	10/28/12 05:16	1014
1,4-Dichlorobenzene	ND	ug/L	0.50		1	10/27/12	10/28/12 05:16	1014
Dichlorodifluoromethane	ND	ug/L	0.50		1	10/27/12	10/28/12 05:16	1014
1,1-Dichloroethane	ND	ug/L	0.50		1	10/27/12	10/28/12 05:16	1014
1,2-Dichloroethane	ND	ug/L	0.50		1	10/27/12	10/28/12 05:16	1014
cis-1,2-Dichloroethene	ND	ug/L	0.50		1	10/27/12	10/28/12 05:16	1014
trans-1,2-Dichloroethene	ND	ug/L	0.50		1	10/27/12	10/28/12 05:16	1014
1,1-Dichloroethene	ND	ug/L	0.50		1	10/27/12	10/28/12 05:16	1014
1,2-Dichloropropane	ND	ug/L	0.50		1	10/27/12	10/28/12 05:16	1014
Ethylbenzene	ND	ug/L	0.50		1	10/27/12	10/28/12 05:16	1014
Isopropylbenzene	ND	ug/L	0.50		1	10/27/12	10/28/12 05:16	1014
Methyl-t-butyl ether	ND	ug/L	0.50		1	10/27/12	10/28/12 05:16	1014
Naphthalene	ND	ug/L	0.50		1	10/27/12	10/28/12 05:16	1014
Styrene	ND	ug/L	0.50		1	10/27/12	10/28/12 05:16	1014
Diisopropyl ether	ND	ug/L	5.0		1	10/27/12	10/28/12 05:16	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50		1	10/27/12	10/28/12 05:16	1014
Tetrachloroethylene	ND	ug/L	0.50		1	10/27/12	10/28/12 05:16	1014

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12102316
Chesapeake GeoSciences, Inc., Columbia, MD
November 6, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3997 Farm-First Draw **Date/Time Sampled: 10/23/2012 08:00** **PSS Sample ID: 12102316-002**
Matrix: WATER **Date/Time Received: 10/23/2012 11:00**
VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Toluene	ND	ug/L	0.50		1	10/27/12	10/28/12 05:16	1014
1,2,4-Trichlorobenzene	ND	ug/L	0.50		1	10/27/12	10/28/12 05:16	1014
1,1,1-Trichloroethane	ND	ug/L	0.50		1	10/27/12	10/28/12 05:16	1014
1,1,2-Trichloroethane	ND	ug/L	0.50		1	10/27/12	10/28/12 05:16	1014
Trichloroethene	ND	ug/L	0.50		1	10/27/12	10/28/12 05:16	1014
Vinyl Chloride	ND	ug/L	0.50		1	10/27/12	10/28/12 05:16	1014
o-Xylene	ND	ug/L	0.50		1	10/27/12	10/28/12 05:16	1014
m,p-Xylenes	ND	ug/L	1.0		1	10/27/12	10/28/12 05:16	1014
tert-Butyl ethyl ether	ND	ug/L	5.0		1	10/27/12	10/28/12 05:16	1014
tert-Butyl alcohol	ND	ug/L	20		1	10/27/12	10/28/12 05:16	1014
tert-Amyl methyl ether	ND	ug/L	5.0		1	10/27/12	10/28/12 05:16	1014

ENVIRO-CHEM LABORATORIES, INC.

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FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 08-Nov-12
REPORT NUMBER: 3485

LAB#- ECL026945-003 SAMPLE ID- 3997 Farm-Flushed
LOCATION- Total
DATE SAMPLED- 10/23/2012 TIME SAMPLED- 8:40 SAMPLER- L. Bennett
DATE RECEIVED- 10/23/2012 TIME RECEIVED- 10:20
DELIVERED BY- L. Bennett RECEIVED BY- SES

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromium	EPA 200.8	10/30/2012 11:39	CHK	5.0	µg/L	1.0
Lead	EPA 200.8	10/30/2012 11:39	CHK	2.7	µg/L	1.0

ENVIRO-CHEM LABORATORIES, INC.

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FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 08-Nov-12

REPORT NUMBER: 3485

LAB#- ECL026945-004   SAMPLE ID- 3997 Farm-Flushed
LOCATION- Dissolved
DATE SAMPLED- 10/23/2012   TIME SAMPLED- 8:40   SAMPLER- L. Bennett
DATE RECEIVED- 10/23/2012   TIME RECEIVED- 10:20
DELIVERED BY- L. Bennett   RECEIVED BY- SES

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromate	EPA 218.7	10/28/2012 04:20	SES	0.152	ug/L Cr	0.020
Chromium	EPA 200.8	10/30/2012 11:39	CHK	3.8	µg/L	1.0
Lead	EPA 200.8	10/30/2012 11:39	CHK	2.5	µg/L	1.0

Stephen E. [illegible]
LABORATORY DIRECTOR

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410-747-8770
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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12102316
Chesapeake GeoSciences, Inc., Columbia, MD
November 6, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3997 Farm-Flushed **Date/Time Sampled: 10/23/2012 08:40** **PSS Sample ID: 12102316-003**
Matrix: WATER **Date/Time Received: 10/23/2012 11:00**

VOC in Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Benzene	ND	ug/L	0.50		1	10/27/12	10/28/12 05:58	1014
Bromodichloromethane	ND	ug/L	0.50		1	10/27/12	10/28/12 05:58	1014
Bromoform	ND	ug/L	5.0		1	10/27/12	10/28/12 05:58	1014
Bromomethane	ND	ug/L	0.50		1	10/27/12	10/28/12 05:58	1014
Carbon Tetrachloride	ND	ug/L	0.50		1	10/27/12	10/28/12 05:58	1014
Chlorobenzene	ND	ug/L	0.50		1	10/27/12	10/28/12 05:58	1014
Chloroethane	ND	ug/L	0.50		1	10/27/12	10/28/12 05:58	1014
Chloroform	ND	ug/L	0.50		1	10/27/12	10/28/12 05:58	1014
Chloromethane	ND	ug/L	0.50		1	10/27/12	10/28/12 05:58	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0		1	10/27/12	10/28/12 05:58	1014
Dibromochloromethane	ND	ug/L	0.50		1	10/27/12	10/28/12 05:58	1014
1,2-Dibromoethane	ND	ug/L	0.50		1	10/27/12	10/28/12 05:58	1014
1,2-Dichlorobenzene	ND	ug/L	0.50		1	10/27/12	10/28/12 05:58	1014
1,3-Dichlorobenzene	ND	ug/L	0.50		1	10/27/12	10/28/12 05:58	1014
1,4-Dichlorobenzene	ND	ug/L	0.50		1	10/27/12	10/28/12 05:58	1014
Dichlorodifluoromethane	ND	ug/L	0.50		1	10/27/12	10/28/12 05:58	1014
1,1-Dichloroethane	ND	ug/L	0.50		1	10/27/12	10/28/12 05:58	1014
1,2-Dichloroethane	ND	ug/L	0.50		1	10/27/12	10/28/12 05:58	1014
cis-1,2-Dichloroethene	ND	ug/L	0.50		1	10/27/12	10/28/12 05:58	1014
trans-1,2-Dichloroethene	ND	ug/L	0.50		1	10/27/12	10/28/12 05:58	1014
1,1-Dichloroethene	ND	ug/L	0.50		1	10/27/12	10/28/12 05:58	1014
1,2-Dichloropropane	ND	ug/L	0.50		1	10/27/12	10/28/12 05:58	1014
Ethylbenzene	ND	ug/L	0.50		1	10/27/12	10/28/12 05:58	1014
Isopropylbenzene	ND	ug/L	0.50		1	10/27/12	10/28/12 05:58	1014
Methyl-t-butyl ether	**2.5**	ug/L	0.50		1	10/27/12	10/28/12 05:58	1014
Naphthalene	ND	ug/L	0.50		1	10/27/12	10/28/12 05:58	1014
Styrene	ND	ug/L	0.50		1	10/27/12	10/28/12 05:58	1014
Diisopropyl ether	ND	ug/L	5.0		1	10/27/12	10/28/12 05:58	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50		1	10/27/12	10/28/12 05:58	1014
Tetrachloroethylene	ND	ug/L	0.50		1	10/27/12	10/28/12 05:58	1014

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12102316
Chesapeake GeoSciences, Inc., Columbia, MD
November 6, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3997 Farm-Flushed **Date/Time Sampled: 10/23/2012 08:40** **PSS Sample ID: 12102316-003**
Matrix: WATER **Date/Time Received: 10/23/2012 11:00**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Toluene	ND	ug/L	0.50		1	10/27/12	10/28/12 05:58	1014
1,2,4-Trichlorobenzene	ND	ug/L	0.50		1	10/27/12	10/28/12 05:58	1014
1,1,1-Trichloroethane	ND	ug/L	0.50		1	10/27/12	10/28/12 05:58	1014
1,1,2-Trichloroethane	ND	ug/L	0.50		1	10/27/12	10/28/12 05:58	1014
Trichloroethene	ND	ug/L	0.50		1	10/27/12	10/28/12 05:58	1014
Vinyl Chloride	ND	ug/L	0.50		1	10/27/12	10/28/12 05:58	1014
o-Xylene	ND	ug/L	0.50		1	10/27/12	10/28/12 05:58	1014
m,p-Xylenes	ND	ug/L	1.0		1	10/27/12	10/28/12 05:58	1014
tert-Butyl ethyl ether	ND	ug/L	5.0		1	10/27/12	10/28/12 05:58	1014
tert-Butyl alcohol	ND	ug/L	20		1	10/27/12	10/28/12 05:58	1014
tert-Amyl methyl ether	ND	ug/L	5.0		1	10/27/12	10/28/12 05:58	1014

MARYLAND DEPARTMENT OF THE ENVIRONMENT

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Martin O'Malley
Governor

Anthony G. Brown
Lieutenant Governor

Robert M. Summers, Ph.D.
Secretary

November 16, 2012

Ms. Jennifer Grossman
Ms. Amy Wolff
3998 Rye Lane
Monrovia MD 21770

RE: DRINKING WATER SAMPLING RESULTS
MDE-FCHD Groundwater Investigation
Green Valley / Monrovia
Frederick County, Maryland

Dear Ms. Grossman and Ms. Wolff:

On October 25, 2012, the Frederick County Health Department (FCHD) and the Maryland Department of the Environment's (MDE) contractor, sampled your drinking water supply. A first draw sample and a flushed sample were collected from your household plumbing system to investigate the potential presence and source of certain contaminants.

The full laboratory analytical reports are attached. The results related to lead, chromium, methyl tertiary butyl ether (MTBE), and pH are summarized below for reference. Note that all concentrations are presented as micrograms per liter (µg/L) (also known as parts per billion (ppb)). If the specific substance was not detected, the value is preceded by a "less than" symbol ("<"). Measurements of pH are unitless.

	First Draw	Flushed	MCL/Action Level/Recommended Range
Total Chromium	<1.0	<1.0	100
Total Lead	1.8	<1.0	15
Chromate / Hexavalent Chromium	<0.020	<0.020	0.3
Dissolved Chromium	<1.0	<1.0	n/a
Dissolved Lead	<1.0	<1.0	n/a
MTBE	<0.5	<0.5	20
pH	6.31	6.42	6.5 – 8.5

The federal and state maximum contaminant level (MCL) for total chromium is 100 µg/L. There is no separate federal or state MCL for hexavalent chromium or for dissolved chromium. The MDE uses 0.3 µg/L as an action level for hexavalent chromium, because that is MDE's conservative lifetime exposure health based standard. The federal and state action level that warrants additional investigation for total lead in public drinking water supplies is 15 µg/L, so the MDE follows this level

as an action level for private water supplies. There is no separate level for dissolved lead. For MTBE, the state action level that warrants corrective measures is 20 µg/L. There is no federal action level for MTBE. The US EPA recommended pH range for drinking water is 6.5 to 8.5.

Hexavalent chromium and lead are metals that can be hazardous to human health. Both metals can occur naturally in the environment or may be generated by human activity. Home water pumps, piping and faucets also are known to be potential sources of lead in drinking water. MTBE is a compound associated with petroleum products.

The MDE and FCHD remind you to properly maintain any filtration equipment you use in your household and to follow all manufacturer recommendations. Additionally, both departments recommend that all private well users follow best practices to protect their wells and their family. This includes flushing your faucet for a few minutes prior to consuming the water, particularly after the water has not been used for an extended period of time.

For questions relating to private drinking water wells, please visit the MDE website at: http://bit.ly/MDEreswells, or call the Water Management Administration at 410-537-3780. If you would like more information about the ongoing petroleum cleanups in the Monrovia area at the former Green Valley Citgo or the Green Valley Garage, please visit the MDE website at: http://bit.ly/MDEoilcontrolremediation, or call the Oil Control Program at 410-537-3443. The FCHD also has information relating to well maintenance and contaminants on its website, including links to the EPA's information on lead and chromium, at: http://bit.ly/FCHDWaterQuality, or call them at 301-600-1717.

Sincerely,

Christopher Ralston, Administrator
Oil Control Program

CHR/nln

Enclosure

cc: Dr. Barbara Brookmyer, FCHD Health Officer
Mr. Jay Sakai, Director, MDE Water Management Administration
Mr. Horacio Tablada, Director, MDE Land Management Administration
Priscilla Carroll, Esq., Assistant Attorney General
Francesca Gibbs, Esq., Assistant Attorney General
M. Albert Figinski, Esq., Law Offices of Peter G. Angelos
Dwight Stone, Esq., Whiteford Taylor Preston

ENVIRO-CHEM
LABORATORIES, INC.

47 Loveton Circle, Suite K • Sparks, Maryland 21152 410-472-1112

FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 08-Nov-12
REPORT NUMBER: 3497

LAB#- ECL026987-001 SAMPLE ID- 3998 Rye - First Draw
LOCATION- Total
DATE SAMPLED- 10/25/2012 TIME SAMPLED- 15:00 SAMPLER- M. Emery
DATE RECEIVED- 10/26/2012 TIME RECEIVED- 10:57
DELIVERED BY- L. Bennett RECEIVED BY- VPS

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromium	EPA 200.8	10/30/2012 11:39	CHK	< 1.0	µg/L	1.0
Lead	EPA 200.8	10/30/2012 11:39	CHK	1.8	µg/L	1.0

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FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 08-Nov-12

REPORT NUMBER: 3497

LAB#- ECL026987-002 SAMPLE ID- 3998 Rye - First Draw
LOCATION- Dissolved
DATE SAMPLED- 10/25/2012 TIME SAMPLED- 15:00 SAMPLER- M. Emery
DATE RECEIVED- 10/26/2012 TIME RECEIVED- 10:57
DELIVERED BY- L. Bennett RECEIVED BY- VPS

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromate	EPA 218.7	10/28/2012 08:45	SES	< 0.020	ug/L Cr	0.020
Chromium	EPA 200.8	10/30/2012 11:39	CHK	< 1.0	µg/L	1.0
Lead	EPA 200.8	10/30/2012 11:39	CHK	< 1.0	µg/L	1.0

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12102609
Chesapeake GeoSciences, Inc., Columbia, MD
November 9, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3998 Rye-First Draw **Date/Time Sampled: 10/25/2012 15:00** **PSS Sample ID: 12102609-001**
Matrix: WATER **Date/Time Received: 10/26/2012 11:35**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Benzene	ND	ug/L	0.50		1	11/07/12	11/08/12 00:13	1014
Bromodichloromethane	ND	ug/L	0.50		1	11/07/12	11/08/12 00:13	1014
Bromoform	ND	ug/L	5.0		1	11/07/12	11/08/12 00:13	1014
Bromomethane	ND	ug/L	0.50		1	11/07/12	11/08/12 00:13	1014
Carbon Tetrachloride	ND	ug/L	0.50		1	11/07/12	11/08/12 00:13	1014
Chlorobenzene	ND	ug/L	0.50		1	11/07/12	11/08/12 00:13	1014
Chloroethane	ND	ug/L	0.50		1	11/07/12	11/08/12 00:13	1014
Chloroform	ND	ug/L	0.50		1	11/07/12	11/08/12 00:13	1014
Chloromethane	ND	ug/L	0.50		1	11/07/12	11/08/12 00:13	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0		1	11/07/12	11/08/12 00:13	1014
Dibromochloromethane	ND	ug/L	0.50		1	11/07/12	11/08/12 00:13	1014
1,2-Dibromoethane	ND	ug/L	0.50		1	11/07/12	11/08/12 00:13	1014
1,2-Dichlorobenzene	ND	ug/L	0.50		1	11/07/12	11/08/12 00:13	1014
1,3-Dichlorobenzene	ND	ug/L	0.50		1	11/07/12	11/08/12 00:13	1014
1,4-Dichlorobenzene	ND	ug/L	0.50		1	11/07/12	11/08/12 00:13	1014
Dichlorodifluoromethane	ND	ug/L	0.50		1	11/07/12	11/08/12 00:13	1014
1,1-Dichloroethane	ND	ug/L	0.50		1	11/07/12	11/08/12 00:13	1014
1,2-Dichloroethane	ND	ug/L	0.50		1	11/07/12	11/08/12 00:13	1014
cis-1,2-Dichloroethene	ND	ug/L	0.50		1	11/07/12	11/08/12 00:13	1014
trans-1,2-Dichloroethene	ND	ug/L	0.50		1	11/07/12	11/08/12 00:13	1014
1,1-Dichloroethene	ND	ug/L	0.50		1	11/07/12	11/08/12 00:13	1014
1,2-Dichloropropane	ND	ug/L	0.50		1	11/07/12	11/08/12 00:13	1014
Ethylbenzene	ND	ug/L	0.50		1	11/07/12	11/08/12 00:13	1014
Isopropylbenzene	ND	ug/L	0.50		1	11/07/12	11/08/12 00:13	1014
Methyl-t-butyl ether	ND	ug/L	0.50		1	11/07/12	11/08/12 00:13	1014
Naphthalene	ND	ug/L	0.50		1	11/07/12	11/08/12 00:13	1014
Styrene	ND	ug/L	0.50		1	11/07/12	11/08/12 00:13	1014
Diisopropyl ether	ND	ug/L	5.0		1	11/07/12	11/08/12 00:13	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50		1	11/07/12	11/08/12 00:13	1014
Tetrachloroethylene	ND	ug/L	0.50		1	11/07/12	11/08/12 00:13	1014

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12102609
Chesapeake GeoSciences, Inc., Columbia, MD
November 9, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3998 Rye-First Draw **Date/Time Sampled: 10/25/2012 15:00** **PSS Sample ID: 12102609-001**
Matrix: WATER **Date/Time Received: 10/26/2012 11:35**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Toluene	ND	ug/L	0.50		1	11/07/12	11/08/12 00:13	1014
1,2,4-Trichlorobenzene	ND	ug/L	0.50		1	11/07/12	11/08/12 00:13	1014
1,1,1-Trichloroethane	ND	ug/L	0.50		1	11/07/12	11/08/12 00:13	1014
1,1,2-Trichloroethane	ND	ug/L	0.50		1	11/07/12	11/08/12 00:13	1014
Trichloroethene	ND	ug/L	0.50		1	11/07/12	11/08/12 00:13	1014
Vinyl Chloride	ND	ug/L	0.50		1	11/07/12	11/08/12 00:13	1014
o-Xylene	ND	ug/L	0.50		1	11/07/12	11/08/12 00:13	1014
m,p-Xylenes	ND	ug/L	1.0		1	11/07/12	11/08/12 00:13	1014
tert-Butyl ethyl ether	ND	ug/L	5.0		1	11/07/12	11/08/12 00:13	1014
tert-Butyl alcohol	ND	ug/L	20		1	11/07/12	11/08/12 00:13	1014
tert-Amyl methyl ether	ND	ug/L	5.0		1	11/07/12	11/08/12 00:13	1014

ENVIRO-CHEM LABORATORIES, INC.

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410-472-1112

FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 08-Nov-12
REPORT NUMBER: 3497

LAB#- ECL026987-003 SAMPLE ID- 3998 Rye - Flushed
LOCATION- Total
DATE SAMPLED- 10/25/2012 TIME SAMPLED- 15:35 SAMPLER- M. Emery
DATE RECEIVED- 10/26/2012 TIME RECEIVED- 10:57
DELIVERED BY- L. Bennett RECEIVED BY- VPS

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromium	EPA 200.8	10/30/2012 11:39	CHK	< 1.0	µg/L	1.0
Lead	EPA 200.8	10/30/2012 11:39	CHK	< 1.0	µg/L	1.0

ENVIRO-CHEM LABORATORIES, INC.

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FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 08-Nov-12
REPORT NUMBER: 3497

LAB#- ECL026987-004 SAMPLE ID- 3998 Rye - Flushed
LOCATION- Dissolved
DATE SAMPLED- 10/25/2012 TIME SAMPLED- 15:35 SAMPLER- M. Emery
DATE RECEIVED- 10/26/2012 TIME RECEIVED- 10:57
DELIVERED BY- L. Bennett RECEIVED BY- VPS

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromate	EPA 218.7	10/28/2012 09:04	SES	< 0.020	ug/L Cr	0.020
Chromium	EPA 200.8	10/30/2012 11:39	CHK	< 1.0	µg/L	1.0
Lead	EPA 200.8	10/30/2012 11:39	CHK	< 1.0	µg/L	1.0

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12102609
Chesapeake GeoSciences, Inc., Columbia, MD
November 9, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3998 Rye-Flushed **Date/Time Sampled: 10/25/2012 15:35** **PSS Sample ID: 12102609-002**
Matrix: WATER **Date/Time Received: 10/26/2012 11:35**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Benzene	ND	ug/L	0.50		1	11/07/12	11/08/12 00:52	1014
Bromodichloromethane	ND	ug/L	0.50		1	11/07/12	11/08/12 00:52	1014
Bromoform	ND	ug/L	5.0		1	11/07/12	11/08/12 00:52	1014
Bromomethane	ND	ug/L	0.50		1	11/07/12	11/08/12 00:52	1014
Carbon Tetrachloride	ND	ug/L	0.50		1	11/07/12	11/08/12 00:52	1014
Chlorobenzene	ND	ug/L	0.50		1	11/07/12	11/08/12 00:52	1014
Chloroethane	ND	ug/L	0.50		1	11/07/12	11/08/12 00:52	1014
Chloroform	ND	ug/L	0.50		1	11/07/12	11/08/12 00:52	1014
Chloromethane	ND	ug/L	0.50		1	11/07/12	11/08/12 00:52	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0		1	11/07/12	11/08/12 00:52	1014
Dibromochloromethane	ND	ug/L	0.50		1	11/07/12	11/08/12 00:52	1014
1,2-Dibromoethane	ND	ug/L	0.50		1	11/07/12	11/08/12 00:52	1014
1,2-Dichlorobenzene	ND	ug/L	0.50		1	11/07/12	11/08/12 00:52	1014
1,3-Dichlorobenzene	ND	ug/L	0.50		1	11/07/12	11/08/12 00:52	1014
1,4-Dichlorobenzene	ND	ug/L	0.50		1	11/07/12	11/08/12 00:52	1014
Dichlorodifluoromethane	ND	ug/L	0.50		1	11/07/12	11/08/12 00:52	1014
1,1-Dichloroethane	ND	ug/L	0.50		1	11/07/12	11/08/12 00:52	1014
1,2-Dichloroethane	ND	ug/L	0.50		1	11/07/12	11/08/12 00:52	1014
cis-1,2-Dichloroethene	ND	ug/L	0.50		1	11/07/12	11/08/12 00:52	1014
trans-1,2-Dichloroethene	ND	ug/L	0.50		1	11/07/12	11/08/12 00:52	1014
1,1-Dichloroethene	ND	ug/L	0.50		1	11/07/12	11/08/12 00:52	1014
1,2-Dichloropropane	ND	ug/L	0.50		1	11/07/12	11/08/12 00:52	1014
Ethylbenzene	ND	ug/L	0.50		1	11/07/12	11/08/12 00:52	1014
Isopropylbenzene	ND	ug/L	0.50		1	11/07/12	11/08/12 00:52	1014
Methyl-t-butyl ether	ND	ug/L	0.50		1	11/07/12	11/08/12 00:52	1014
Naphthalene	ND	ug/L	0.50		1	11/07/12	11/08/12 00:52	1014
Styrene	ND	ug/L	0.50		1	11/07/12	11/08/12 00:52	1014
Diisopropyl ether	ND	ug/L	5.0		1	11/07/12	11/08/12 00:52	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50		1	11/07/12	11/08/12 00:52	1014
Tetrachloroethylene	ND	ug/L	0.50		1	11/07/12	11/08/12 00:52	1014

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12102609
Chesapeake GeoSciences, Inc., Columbia, MD
November 9, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3998 Rye-Flushed **Date/Time Sampled: 10/25/2012 15:35** **PSS Sample ID: 12102609-002**
Matrix: WATER **Date/Time Received: 10/26/2012 11:35**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Toluene	ND	ug/L	0.50		1	11/07/12	11/08/12 00:52	1014
1,2,4-Trichlorobenzene	ND	ug/L	0.50		1	11/07/12	11/08/12 00:52	1014
1,1,1-Trichloroethane	ND	ug/L	0.50		1	11/07/12	11/08/12 00:52	1014
1,1,2-Trichloroethane	ND	ug/L	0.50		1	11/07/12	11/08/12 00:52	1014
Trichloroethene	ND	ug/L	0.50		1	11/07/12	11/08/12 00:52	1014
Vinyl Chloride	ND	ug/L	0.50		1	11/07/12	11/08/12 00:52	1014
o-Xylene	ND	ug/L	0.50		1	11/07/12	11/08/12 00:52	1014
m,p-Xylenes	ND	ug/L	1.0		1	11/07/12	11/08/12 00:52	1014
tert-Butyl ethyl ether	ND	ug/L	5.0		1	11/07/12	11/08/12 00:52	1014
tert-Butyl alcohol	ND	ug/L	20		1	11/07/12	11/08/12 00:52	1014
tert-Amyl methyl ether	ND	ug/L	5.0		1	11/07/12	11/08/12 00:52	1014

MDE

MARYLAND DEPARTMENT OF THE ENVIRONMENT

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Martin O'Malley
Governor

Anthony G. Brown
Lieutenant Governor

Robert M. Summers, Ph.D.
Secretary

November 16, 2012

Mr. William B. Miltimore
4016 Middleton Drive
Monrovia MD 21770

RE: DRINKING WATER SAMPLING RESULTS
MDE-FCHD Groundwater Investigation
Green Valley / Monrovia
Frederick County, Maryland

Dear Mr. Miltimore:

On October 18, 2012, the Frederick County Health Department (FCHD) and the Maryland Department of the Environment's (MDE) contractor, sampled your drinking water supply. A first draw sample and a flushed sample were collected from your household plumbing system to investigate the potential presence and source of certain contaminants.

The full laboratory analytical reports are attached. The results related to lead, chromium, methyl tertiary butyl ether (MTBE), and pH are summarized below for reference. Note that all concentrations are presented as micrograms per liter (µg/L) (also known as parts per billion (ppb)). If the specific substance was not detected, the value is preceded by a "less than" symbol ("<"). Measurements of pH are unitless.

	First Draw	Flushed	MCL/Action Level/Recommended Range
Total Chromium	<1.0	<1.0	100
Total Lead	5.5	5.3	15
Chromate / Hexavalent Chromium	0.054	0.028	0.3
Dissolved Chromium	<1.0	<1.0	n/a
Dissolved Lead	4.8	5.9	n/a
MTBE	<0.5	<0.5	20
pH	6.51	6.42	6.5 – 8.5

The federal and state maximum contaminant level (MCL) for total chromium is 100 µg/L. There is no separate federal or state MCL for hexavalent chromium or for dissolved chromium. The MDE uses 0.3 µg/L as an action level for hexavalent chromium, because that is MDE's conservative lifetime exposure health based standard. The federal and state action level that warrants additional investigation for total lead in public drinking water supplies is 15 µg/L, so the MDE follows this level

as an action level for private water supplies. There is no separate level for dissolved lead. For MTBE, the state action level that warrants corrective measures is 20 μg/L. There is no federal action level for MTBE. The US EPA recommended pH range for drinking water is 6.5 to 8.5.

Hexavalent chromium and lead are metals that can be hazardous to human health. Both metals can occur naturally in the environment or may be generated by human activity. Home water pumps, piping and faucets also are known to be potential sources of lead in drinking water. MTBE is a compound associated with petroleum products.

The MDE and FCHD remind you to properly maintain any filtration equipment you use in your household and to follow all manufacturer recommendations. Additionally, both departments recommend that all private well users follow best practices to protect their wells and their family. This includes flushing your faucet for a few minutes prior to consuming the water, particularly after the water has not been used for an extended period of time.

For questions relating to private drinking water wells, please visit the MDE website at: http://bit.ly/MDEreswells, or call the Water Management Administration at 410-537-3780. If you would like more information about the ongoing petroleum cleanups in the Monrovia area at the former Green Valley Citgo or the Green Valley Garage, please visit the MDE website at: http://bit.ly/MDEoilcontrolremediation, or call the Oil Control Program at 410-537-3443. The FCHD also has information relating to well maintenance and contaminants on its website, including links to the EPA's information on lead and chromium, at: http://bit.ly/FCHDWaterQuality, or call them at 301-600-1717.

Sincerely,

Christopher Ralston, Administrator
Oil Control Program

CHR/nln

Enclosure

cc: Dr. Barbara Brookmyer, FCHD Health Officer
Mr. Jay Sakai, Director, MDE Water Management Administration
Mr. Horacio Tablada, Director, MDE Land Management Administration
Priscilla Carroll, Esq., Assistant Attorney General
Francesca Gibbs, Esq., Assistant Attorney General
M. Albert Figinski, Esq., Law Offices of Peter G. Angelos
Dwight Stone, Esq., Whiteford Taylor Preston

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FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 30-Oct-12
REPORT NUMBER: 3415

LAB#- ECL026926-001 SAMPLE ID- 4016 Middleton-First Draw
LOCATION- Total
DATE SAMPLED- 10/18/2012 TIME SAMPLED- 16:05 SAMPLER- L. Bennett
DATE RECEIVED- 10/19/2012 TIME RECEIVED- 9:20
DELIVERED BY- M. Emery RECEIVED BY- VPS

Page 1 of 4

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromium	EPA 200.8	10/23/2012 13:40	CHK	< 1.0	µg/L	1.0
Lead	EPA 200.8	10/23/2012 13:40	CHK	5.5	µg/L	1.0

ENVIRO-CHEM LABORATORIES, INC.

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FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 30-Oct-12
REPORT NUMBER: 3415

LAB#- ECL026926-002 SAMPLE ID- 4016 Middleton-First Draw
LOCATION- Dissolved
DATE SAMPLED- 10/18/2012 TIME SAMPLED- 16:05 SAMPLER- L. Bennett
DATE RECEIVED- 10/19/2012 TIME RECEIVED- 9:20
DELIVERED BY- M. Emery RECEIVED BY- VPS

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromate	EPA 218.7	10/20/2012 23:50	SES	0.054	ug/L Cr	0.020
Chromium	EPA 200.8	10/23/2012 13:40	CHK	< 1.0	µg/L	1.0
Lead	EPA 200.8	10/23/2012 13:40	CHK	4.8	µg/L	1.0

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12101903
Chesapeake GeoSciences, Inc., Columbia, MD
November 2, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 4016 Middleton-First Draw **Date/Time Sampled: 10/18/2012 16:05** **PSS Sample ID: 12101903-001**
Matrix: WATER **Date/Time Received: 10/19/2012 10:05**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Benzene	ND	ug/L	0.50		1	10/26/12	10/26/12 15:32	1014
Bromodichloromethane	ND	ug/L	0.50		1	10/26/12	10/26/12 15:32	1014
Bromoform	ND	ug/L	5.0		1	10/26/12	10/26/12 15:32	1014
Bromomethane	ND	ug/L	0.50		1	10/26/12	10/26/12 15:32	1014
Carbon Tetrachloride	ND	ug/L	0.50		1	10/26/12	10/26/12 15:32	1014
Chlorobenzene	ND	ug/L	0.50		1	10/26/12	10/26/12 15:32	1014
Chloroethane	ND	ug/L	0.50		1	10/26/12	10/26/12 15:32	1014
Chloroform	ND	ug/L	0.50		1	10/26/12	10/26/12 15:32	1014
Chloromethane	ND	ug/L	0.50		1	10/26/12	10/26/12 15:32	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0		1	10/26/12	10/26/12 15:32	1014
Dibromochloromethane	ND	ug/L	0.50		1	10/26/12	10/26/12 15:32	1014
1,2-Dibromoethane	ND	ug/L	0.50		1	10/26/12	10/26/12 15:32	1014
1,2-Dichlorobenzene	ND	ug/L	0.50		1	10/26/12	10/26/12 15:32	1014
1,3-Dichlorobenzene	ND	ug/L	0.50		1	10/26/12	10/26/12 15:32	1014
1,4-Dichlorobenzene	ND	ug/L	0.50		1	10/26/12	10/26/12 15:32	1014
Dichlorodifluoromethane	ND	ug/L	0.50		1	10/26/12	10/26/12 15:32	1014
1,1-Dichloroethane	ND	ug/L	0.50		1	10/26/12	10/26/12 15:32	1014
1,2-Dichloroethane	ND	ug/L	0.50		1	10/26/12	10/26/12 15:32	1014
cis-1,2-Dichloroethene	ND	ug/L	0.50		1	10/26/12	10/26/12 15:32	1014
trans-1,2-Dichloroethene	ND	ug/L	0.50		1	10/26/12	10/26/12 15:32	1014
1,1-Dichloroethene	ND	ug/L	0.50		1	10/26/12	10/26/12 15:32	1014
1,2-Dichloropropane	ND	ug/L	0.50		1	10/26/12	10/26/12 15:32	1014
Ethylbenzene	ND	ug/L	0.50		1	10/26/12	10/26/12 15:32	1014
Isopropylbenzene	ND	ug/L	0.50		1	10/26/12	10/26/12 15:32	1014
Methyl-t-butyl ether	ND	ug/L	0.50		1	10/26/12	10/26/12 15:32	1014
Naphthalene	ND	ug/L	0.50		1	10/26/12	10/26/12 15:32	1014
Styrene	ND	ug/L	0.50		1	10/26/12	10/26/12 15:32	1014
Diisopropyl ether	ND	ug/L	5.0		1	10/26/12	10/26/12 15:32	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50		1	10/26/12	10/26/12 15:32	1014
Tetrachloroethylene	ND	ug/L	0.50		1	10/26/12	10/26/12 15:32	1014

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12101903
Chesapeake GeoSciences, Inc., Columbia, MD
November 2, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 4016 Middleton-First Draw **Date/Time Sampled: 10/18/2012 16:05** **PSS Sample ID: 12101903-001**
Matrix: WATER **Date/Time Received: 10/19/2012 10:05**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Toluene	ND	ug/L	0.50		1	10/26/12	10/26/12 15:32	1014
1,2,4-Trichlorobenzene	ND	ug/L	0.50		1	10/26/12	10/26/12 15:32	1014
1,1,1-Trichloroethane	ND	ug/L	0.50		1	10/26/12	10/26/12 15:32	1014
1,1,2-Trichloroethane	ND	ug/L	0.50		1	10/26/12	10/26/12 15:32	1014
Trichloroethene	ND	ug/L	0.50		1	10/26/12	10/26/12 15:32	1014
Vinyl Chloride	ND	ug/L	0.50		1	10/26/12	10/26/12 15:32	1014
o-Xylene	ND	ug/L	0.50		1	10/26/12	10/26/12 15:32	1014
m,p-Xylenes	ND	ug/L	1.0		1	10/26/12	10/26/12 15:32	1014
tert-Butyl ethyl ether	ND	ug/L	5.0		1	10/26/12	10/26/12 15:32	1014
tert-Butyl alcohol	ND	ug/L	20		1	10/26/12	10/26/12 15:32	1014
tert-Amyl methyl ether	ND	ug/L	5.0		1	10/26/12	10/26/12 15:32	1014

ENVIRO-CHEM LABORATORIES, INC.

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FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 30-Oct-12
REPORT NUMBER: 3415

LAB#- ECL026926-003 SAMPLE ID- 4016 Middleton-Flush
LOCATION- Total
DATE SAMPLED- 10/18/2012 TIME SAMPLED- 16:45 SAMPLER- L. Bennett
DATE RECEIVED- 10/19/2012 TIME RECEIVED- 9:20
DELIVERED BY- M. Emery RECEIVED BY- VPS

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromium	EPA 200.8	10/23/2012 13:40	CHK	< 1.0	µg/L	1.0
Lead	EPA 200.8	10/23/2012 13:40	CHK	5.3	µg/L	1.0

ENVIRO-CHEM
LABORATORIES, INC.

47 Loveton Circle, Suite K • Sparks, Maryland 21152 410-472-1112

FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 30-Oct-12
REPORT NUMBER: 3415

LAB#- ECL026926-004 SAMPLE ID- 4016 Middleton-Flush
LOCATION- Dissolved
DATE SAMPLED- 10/18/2012 TIME SAMPLED- 16:45 SAMPLER- L. Bennett
DATE RECEIVED- 10/19/2012 TIME RECEIVED- 9:20
DELIVERED BY- M. Emery RECEIVED BY- VPS

Page 4 of 4

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromate	EPA 218.7	10/21/2012 00:47	SES	0.028	ug/L Cr	0.020
Chromium	EPA 200.8	10/23/2012 13:40	CHK	< 1.0	µg/L	1.0
Lead	EPA 200.8	10/23/2012 13:40	CHK	5.9	µg/L	1.0

LABORATORY DIRECTOR

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PHASE SEPARATION SCIENCE, INC.

1989 - 20 YEARS - 2009 ANALYTICAL CHEMISTRY ENVIRONMENTAL SCIENCE EXCEEDING THE STANDARD

CERTIFICATE OF ANALYSIS

No: 12101903
Chesapeake GeoSciences, Inc., Columbia, MD
November 2, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 4016 Middleton-Flushed **Date/Time Sampled: 10/18/2012 16:45** **PSS Sample ID: 12101903-002**
Matrix: WATER **Date/Time Received: 10/19/2012 10:05**

VOC in Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Benzene	ND	ug/L	0.50		1	10/26/12	10/26/12 16:14	1014
Bromodichloromethane	ND	ug/L	0.50		1	10/26/12	10/26/12 16:14	1014
Bromoform	ND	ug/L	5.0		1	10/26/12	10/26/12 16:14	1014
Bromomethane	ND	ug/L	0.50		1	10/26/12	10/26/12 16:14	1014
Carbon Tetrachloride	ND	ug/L	0.50		1	10/26/12	10/26/12 16:14	1014
Chlorobenzene	ND	ug/L	0.50		1	10/26/12	10/26/12 16:14	1014
Chloroethane	ND	ug/L	0.50		1	10/26/12	10/26/12 16:14	1014
Chloroform	ND	ug/L	0.50		1	10/26/12	10/26/12 16:14	1014
Chloromethane	ND	ug/L	0.50		1	10/26/12	10/26/12 16:14	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0		1	10/26/12	10/26/12 16:14	1014
Dibromochloromethane	ND	ug/L	0.50		1	10/26/12	10/26/12 16:14	1014
1,2-Dibromoethane	ND	ug/L	0.50		1	10/26/12	10/26/12 16:14	1014
1,2-Dichlorobenzene	ND	ug/L	0.50		1	10/26/12	10/26/12 16:14	1014
1,3-Dichlorobenzene	ND	ug/L	0.50		1	10/26/12	10/26/12 16:14	1014
1,4-Dichlorobenzene	ND	ug/L	0.50		1	10/26/12	10/26/12 16:14	1014
Dichlorodifluoromethane	ND	ug/L	0.50		1	10/26/12	10/26/12 16:14	1014
1,1-Dichloroethane	ND	ug/L	0.50		1	10/26/12	10/26/12 16:14	1014
1,2-Dichloroethane	ND	ug/L	0.50		1	10/26/12	10/26/12 16:14	1014
cis-1,2-Dichloroethene	ND	ug/L	0.50		1	10/26/12	10/26/12 16:14	1014
trans-1,2-Dichloroethene	ND	ug/L	0.50		1	10/26/12	10/26/12 16:14	1014
1,1-Dichloroethene	ND	ug/L	0.50		1	10/26/12	10/26/12 16:14	1014
1,2-Dichloropropane	ND	ug/L	0.50		1	10/26/12	10/26/12 16:14	1014
Ethylbenzene	ND	ug/L	0.50		1	10/26/12	10/26/12 16:14	1014
Isopropylbenzene	ND	ug/L	0.50		1	10/26/12	10/26/12 16:14	1014
Methyl-t-butyl ether	ND	ug/L	0.50		1	10/26/12	10/26/12 16:14	1014
Naphthalene	ND	ug/L	0.50		1	10/26/12	10/26/12 16:14	1014
Styrene	ND	ug/L	0.50		1	10/26/12	10/26/12 16:14	1014
Diisopropyl ether	ND	ug/L	5.0		1	10/26/12	10/26/12 16:14	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50		1	10/26/12	10/26/12 16:14	1014
Tetrachloroethylene	ND	ug/L	0.50		1	10/26/12	10/26/12 16:14	1014

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12101903
Chesapeake GeoSciences, Inc., Columbia, MD
November 2, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 4016 Middleton-Flushed **Date/Time Sampled: 10/18/2012 16:45** **PSS Sample ID: 12101903-002**
Matrix: WATER **Date/Time Received: 10/19/2012 10:05**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Toluene	ND	ug/L	0.50		1	10/26/12	10/26/12 16:14	1014
1,2,4-Trichlorobenzene	ND	ug/L	0.50		1	10/26/12	10/26/12 16:14	1014
1,1,1-Trichloroethane	ND	ug/L	0.50		1	10/26/12	10/26/12 16:14	1014
1,1,2-Trichloroethane	ND	ug/L	0.50		1	10/26/12	10/26/12 16:14	1014
Trichloroethene	ND	ug/L	0.50		1	10/26/12	10/26/12 16:14	1014
Vinyl Chloride	ND	ug/L	0.50		1	10/26/12	10/26/12 16:14	1014
o-Xylene	ND	ug/L	0.50		1	10/26/12	10/26/12 16:14	1014
m,p-Xylenes	ND	ug/L	1.0		1	10/26/12	10/26/12 16:14	1014
tert-Butyl ethyl ether	ND	ug/L	5.0		1	10/26/12	10/26/12 16:14	1014
tert-Butyl alcohol	ND	ug/L	20		1	10/26/12	10/26/12 16:14	1014
tert-Amyl methyl ether	ND	ug/L	5.0		1	10/26/12	10/26/12 16:14	1014

MARYLAND DEPARTMENT OF THE ENVIRONMENT

1800 Washington Boulevard • Baltimore MD 21230
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Martin O'Malley
Governor

Anthony G. Brown
Lieutenant Governor

Robert M. Summers, Ph.D.
Secretary

November 16, 2012

Mr. and Mrs. John and Bonnie Andrews
11711 Serene Court
Monrovia MD 21770

RE: DRINKING WATER SAMPLING RESULTS
MDE-FCHD Groundwater Investigation
Green Valley / Monrovia
Frederick County, Maryland

Dear Mr. and Mrs. Andrews:

On October 16, 2012, the Frederick County Health Department (FCHD) and the Maryland Department of the Environment's (MDE) contractor, sampled your drinking water supply. A first draw sample and a flushed sample were collected from your household plumbing system to investigate the potential presence and source of certain contaminants.

The full laboratory analytical reports are attached. The results related to lead, chromium, methyl tertiary butyl ether (MTBE), and pH are summarized below for reference. Note that all concentrations are presented as micrograms per liter (µg/L) (also known as parts per billion (ppb)). If the specific substance was not detected, the value is preceded by a "less than" symbol ("<"). Measurements of pH are unitless.

	First Draw	Flushed	MCL/Action Level/Recommended Range
Total Chromium	<1.0	<1.0	100
Total Lead	3.6	<1.0	15
Chromate / Hexavalent Chromium	0.069	<0.020	0.3
Dissolved Chromium	<1.0	<1.0	n/a
Dissolved Lead	1.4	<1.0	n/a
MTBE	<0.5	<0.5	20
pH	7.63	6.88	6.5 – 8.5

The federal and state maximum contaminant level (MCL) for total chromium is 100 µg/L. There is no separate federal or state MCL for hexavalent chromium or for dissolved chromium. The MDE uses 0.3 µg/L as an action level for hexavalent chromium, because that is MDE's conservative lifetime exposure health based standard. The federal and state action level that warrants additional investigation for total lead in public drinking water supplies is 15 µg/L, so the MDE follows this level

as an action level for private water supplies. There is no separate level for dissolved lead. For MTBE, the state action level that warrants corrective measures is 20 µg/L. There is no federal action level for MTBE. The US EPA recommended pH range for drinking water is 6.5 to 8.5.

Hexavalent chromium and lead are metals that can be hazardous to human health. Both metals can occur naturally in the environment or may be generated by human activity. Home water pumps, piping and faucets also are known to be potential sources of lead in drinking water. MTBE is a compound associated with petroleum products.

The MDE and FCHD remind you to properly maintain any filtration equipment you use in your household and to follow all manufacturer recommendations. Additionally, both departments recommend that all private well users follow best practices to protect their wells and their family. This includes flushing your faucet for a few minutes prior to consuming the water, particularly after the water has not been used for an extended period of time.

For questions relating to private drinking water wells, please visit the MDE website at: http://bit.ly/MDEreswells, or call the Water Management Administration at 410-537-3780. If you would like more information about the ongoing petroleum cleanups in the Monrovia area at the former Green Valley Citgo or the Green Valley Garage, please visit the MDE website at: http://bit.ly/MDEoilcontrolremediation, or call the Oil Control Program at 410-537-3443. The FCHD also has information relating to well maintenance and contaminants on its website, including links to the EPA's information on lead and chromium, at: http://bit.ly/FCHDWaterQuality, or call them at 301-600-1717.

Sincerely,

Christopher Ralston, Administrator
Oil Control Program

CHR/nln

Enclosure

cc: Dr. Barbara Brookmyer, FCHD Health Officer
Mr. Jay Sakai, Director, MDE Water Management Administration
Mr. Horacio Tablada, Director, MDE Land Management Administration
Priscilla Carroll, Esq., Assistant Attorney General
Francesca Gibbs, Esq., Assistant Attorney General
M. Albert Figinski, Esq., Law Offices of Peter G. Angelos
Dwight Stone, Esq., Whiteford Taylor Preston

ENVIRO-CHEM LABORATORIES, INC.

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FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 30-Oct-12
REPORT NUMBER: 3417

LAB#- ECL026876-001 SAMPLE ID- 11711 Serene-First Draw
LOCATION- Total
DATE SAMPLED- 10/16/2012 TIME SAMPLED- 8:05 SAMPLER- M. Emery
DATE RECEIVED- 10/16/2012 TIME RECEIVED- 10:15
DELIVERED BY- M. Emery RECEIVED BY- VPS

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromium	EPA 200.8	10/23/2012 13:40	CHK	< 1.0	µg/L	1.0
Lead	EPA 200.8	10/23/2012 13:40	CHK	3.6	µg/L	1.0

ENVIRO-CHEM
LABORATORIES, INC.

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FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 30-Oct-12
REPORT NUMBER: 3417

LAB#- ECL026876-002 SAMPLE ID- 11711 Serene-First Draw
LOCATION- Dissolved
DATE SAMPLED- 10/16/2012 TIME SAMPLED- 8:05 SAMPLER- M. Emery
DATE RECEIVED- 10/16/2012 TIME RECEIVED- 10:15
DELIVERED BY- M. Emery RECEIVED BY- VPS

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromate	EPA 218.7	10/20/2012 21:19	SES	0.069	ug/L Cr	0.020
Chromium	EPA 200.8	10/23/2012 13:40	CHK	< 1.0	µg/L	1.0
Lead	EPA 200.8	10/23/2012 13:40	CHK	1.4	µg/L	1.0

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12101603
Chesapeake GeoSciences, Inc., Columbia, MD
October 29, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 11711-Serene-First Draw **Date/Time Sampled: 10/16/2012 08:05** **PSS Sample ID: 12101603-001**
Matrix: WATER **Date/Time Received: 10/16/2012 11:05**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Benzene	ND	ug/L	0.50		1	10/16/12	10/16/12 17:21	1014
Bromodichloromethane	ND	ug/L	0.50		1	10/16/12	10/16/12 17:21	1014
Bromoform	ND	ug/L	5.0		1	10/16/12	10/16/12 17:21	1014
Bromomethane	ND	ug/L	0.50		1	10/16/12	10/16/12 17:21	1014
Carbon Tetrachloride	ND	ug/L	0.50		1	10/16/12	10/16/12 17:21	1014
Chlorobenzene	ND	ug/L	0.50		1	10/16/12	10/16/12 17:21	1014
Chloroethane	ND	ug/L	0.50		1	10/16/12	10/16/12 17:21	1014
Chloroform	ND	ug/L	0.50		1	10/16/12	10/16/12 17:21	1014
Chloromethane	ND	ug/L	0.50		1	10/16/12	10/16/12 17:21	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0		1	10/16/12	10/16/12 17:21	1014
Dibromochloromethane	ND	ug/L	0.50		1	10/16/12	10/16/12 17:21	1014
1,2-Dibromoethane	ND	ug/L	0.50		1	10/16/12	10/16/12 17:21	1014
1,2-Dichlorobenzene	ND	ug/L	0.50		1	10/16/12	10/16/12 17:21	1014
1,3-Dichlorobenzene	ND	ug/L	0.50		1	10/16/12	10/16/12 17:21	1014
1,4-Dichlorobenzene	ND	ug/L	0.50		1	10/16/12	10/16/12 17:21	1014
Dichlorodifluoromethane	ND	ug/L	0.50		1	10/16/12	10/16/12 17:21	1014
1,1-Dichloroethane	ND	ug/L	0.50		1	10/16/12	10/16/12 17:21	1014
1,2-Dichloroethane	ND	ug/L	0.50		1	10/16/12	10/16/12 17:21	1014
cis-1,2-Dichloroethene	ND	ug/L	0.50		1	10/16/12	10/16/12 17:21	1014
trans-1,2-Dichloroethene	ND	ug/L	0.50		1	10/16/12	10/16/12 17:21	1014
1,1-Dichloroethene	ND	ug/L	0.50		1	10/16/12	10/16/12 17:21	1014
1,2-Dichloropropane	ND	ug/L	0.50		1	10/16/12	10/16/12 17:21	1014
Ethylbenzene	ND	ug/L	0.50		1	10/16/12	10/16/12 17:21	1014
Isopropylbenzene	ND	ug/L	0.50		1	10/16/12	10/16/12 17:21	1014
Methyl-t-butyl ether	ND	ug/L	0.50		1	10/16/12	10/16/12 17:21	1014
Naphthalene	ND	ug/L	0.50		1	10/16/12	10/16/12 17:21	1014
Styrene	ND	ug/L	0.50		1	10/16/12	10/16/12 17:21	1014
Diisopropyl ether	ND	ug/L	5.0		1	10/16/12	10/16/12 17:21	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50		1	10/16/12	10/16/12 17:21	1014
Tetrachloroethylene	ND	ug/L	0.50		1	10/16/12	10/16/12 17:21	1014

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12101603
Chesapeake GeoSciences, Inc., Columbia, MD
October 29, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 11711-Serene-First Draw **Date/Time Sampled: 10/16/2012 08:05** **PSS Sample ID: 12101603-001**
Matrix: WATER **Date/Time Received: 10/16/2012 11:05**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Toluene	ND	ug/L	0.50		1	10/16/12	10/16/12 17:21	1014
1,2,4-Trichlorobenzene	ND	ug/L	0.50		1	10/16/12	10/16/12 17:21	1014
1,1,1-Trichloroethane	ND	ug/L	0.50		1	10/16/12	10/16/12 17:21	1014
1,1,2-Trichloroethane	ND	ug/L	0.50		1	10/16/12	10/16/12 17:21	1014
Trichloroethene	ND	ug/L	0.50		1	10/16/12	10/16/12 17:21	1014
Vinyl Chloride	ND	ug/L	0.50		1	10/16/12	10/16/12 17:21	1014
o-Xylene	ND	ug/L	0.50		1	10/16/12	10/16/12 17:21	1014
m,p-Xylenes	ND	ug/L	1.0		1	10/16/12	10/16/12 17:21	1014
tert-Butyl ethyl ether	ND	ug/L	5.0		1	10/16/12	10/16/12 17:21	1014
tert-Butyl alcohol	ND	ug/L	20		1	10/16/12	10/16/12 17:21	1014
tert-Amyl methyl ether	ND	ug/L	5.0		1	10/16/12	10/16/12 17:21	1014

ENVIRO-CHEM LABORATORIES, INC.

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FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 30-Oct-12
REPORT NUMBER: 3417

LAB#- ECL026876-003 SAMPLE ID- 11711 Serene-Flushed
LOCATION- Total
DATE SAMPLED- 10/16/2012 TIME SAMPLED- 8:40 SAMPLER- M. Emery
DATE RECEIVED- 10/16/2012 TIME RECEIVED- 10:15
DELIVERED BY- M. Emery RECEIVED BY- VPS

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromium	EPA 200.8	10/23/2012 13:40	CHK	< 1.0	µg/L	1.0
Lead	EPA 200.8	10/23/2012 13:40	CHK	< 1.0	µg/L	1.0

ENVIRO-CHEM LABORATORIES, INC.

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FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 30-Oct-12

REPORT NUMBER: 3417

LAB#- ECL026876-004 SAMPLE ID- 11711 Serene-Flushed
LOCATION- Dissolved
DATE SAMPLED- 10/16/2012 TIME SAMPLED- 8:40 SAMPLER- M. Emery
DATE RECEIVED- 10/16/2012 TIME RECEIVED- 10:15
DELIVERED BY- M. Emery RECEIVED BY- VPS

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromate	EPA 218.7	10/20/2012 22:16	SES	< 0.020	ug/L Cr	0.020
Chromium	EPA 200.8	10/23/2012 13:40	CHK	< 1.0	µg/L	1.0
Lead	EPA 200.8	10/23/2012 13:40	CHK	< 1.0	µg/L	1.0

LABORATORY DIRECTOR

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12101603
Chesapeake GeoSciences, Inc., Columbia, MD
October 29, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 11711-Serene-Flushed **Date/Time Sampled: 10/16/2012 08:40** **PSS Sample ID: 12101603-002**
Matrix: WATER **Date/Time Received: 10/16/2012 11:05**

VOC in Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Benzene	ND	ug/L	0.50		1	10/16/12	10/16/12 18:03	1014
Bromodichloromethane	ND	ug/L	0.50		1	10/16/12	10/16/12 18:03	1014
Bromoform	ND	ug/L	5.0		1	10/16/12	10/16/12 18:03	1014
Bromomethane	ND	ug/L	0.50		1	10/16/12	10/16/12 18:03	1014
Carbon Tetrachloride	ND	ug/L	0.50		1	10/16/12	10/16/12 18:03	1014
Chlorobenzene	ND	ug/L	0.50		1	10/16/12	10/16/12 18:03	1014
Chloroethane	ND	ug/L	0.50		1	10/16/12	10/16/12 18:03	1014
Chloroform	ND	ug/L	0.50		1	10/16/12	10/16/12 18:03	1014
Chloromethane	ND	ug/L	0.50		1	10/16/12	10/16/12 18:03	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0		1	10/16/12	10/16/12 18:03	1014
Dibromochloromethane	ND	ug/L	0.50		1	10/16/12	10/16/12 18:03	1014
1,2-Dibromoethane	ND	ug/L	0.50		1	10/16/12	10/16/12 18:03	1014
1,2-Dichlorobenzene	ND	ug/L	0.50		1	10/16/12	10/16/12 18:03	1014
1,3-Dichlorobenzene	ND	ug/L	0.50		1	10/16/12	10/16/12 18:03	1014
1,4-Dichlorobenzene	ND	ug/L	0.50		1	10/16/12	10/16/12 18:03	1014
Dichlorodifluoromethane	ND	ug/L	0.50		1	10/16/12	10/16/12 18:03	1014
1,1-Dichloroethane	ND	ug/L	0.50		1	10/16/12	10/16/12 18:03	1014
1,2-Dichloroethane	ND	ug/L	0.50		1	10/16/12	10/16/12 18:03	1014
cis-1,2-Dichloroethene	ND	ug/L	0.50		1	10/16/12	10/16/12 18:03	1014
trans-1,2-Dichloroethene	ND	ug/L	0.50		1	10/16/12	10/16/12 18:03	1014
1,1-Dichloroethene	ND	ug/L	0.50		1	10/16/12	10/16/12 18:03	1014
1,2-Dichloropropane	ND	ug/L	0.50		1	10/16/12	10/16/12 18:03	1014
Ethylbenzene	ND	ug/L	0.50		1	10/16/12	10/16/12 18:03	1014
Isopropylbenzene	ND	ug/L	0.50		1	10/16/12	10/16/12 18:03	1014
Methyl-t-butyl ether	ND	ug/L	0.50		1	10/16/12	10/16/12 18:03	1014
Naphthalene	ND	ug/L	0.50		1	10/16/12	10/16/12 18:03	1014
Styrene	ND	ug/L	0.50		1	10/16/12	10/16/12 18:03	1014
Diisopropyl ether	ND	ug/L	5.0		1	10/16/12	10/16/12 18:03	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50		1	10/16/12	10/16/12 18:03	1014
Tetrachloroethylene	ND	ug/L	0.50		1	10/16/12	10/16/12 18:03	1014

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12101603
Chesapeake GeoSciences, Inc., Columbia, MD
October 29, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 11711-Serene-Flushed **Date/Time Sampled: 10/16/2012 08:40** **PSS Sample ID: 12101603-002**
Matrix: WATER **Date/Time Received: 10/16/2012 11:05**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Toluene	ND	ug/L	0.50		1	10/16/12	10/16/12 18:03	1014
1,2,4-Trichlorobenzene	ND	ug/L	0.50		1	10/16/12	10/16/12 18:03	1014
1,1,1-Trichloroethane	ND	ug/L	0.50		1	10/16/12	10/16/12 18:03	1014
1,1,2-Trichloroethane	ND	ug/L	0.50		1	10/16/12	10/16/12 18:03	1014
Trichloroethene	ND	ug/L	0.50		1	10/16/12	10/16/12 18:03	1014
Vinyl Chloride	ND	ug/L	0.50		1	10/16/12	10/16/12 18:03	1014
o-Xylene	ND	ug/L	0.50		1	10/16/12	10/16/12 18:03	1014
m,p-Xylenes	ND	ug/L	1.0		1	10/16/12	10/16/12 18:03	1014
tert-Butyl ethyl ether	ND	ug/L	5.0		1	10/16/12	10/16/12 18:03	1014
tert-Butyl alcohol	ND	ug/L	20		1	10/16/12	10/16/12 18:03	1014
tert-Amyl methyl ether	ND	ug/L	5.0		1	10/16/12	10/16/12 18:03	1014

MARYLAND DEPARTMENT OF THE ENVIRONMENT
1800 Washington Boulevard • Baltimore MD 21230
410-537-3000 • 1-800-633-6101 • www.mde.state.md.us

Martin O'Malley
Governor

Anthony G. Brown
Lieutenant Governor

Robert M. Summers, Ph.D.
Secretary

November 16, 2012

Mr. and Mrs. Benjamin and Heather Gray
11712 Serene Court
Monrovia MD 21770

RE: DRINKING WATER SAMPLING RESULTS
MDE-FCHD Groundwater Investigation
Green Valley / Monrovia
Frederick County, Maryland

Dear Mr. and Mrs. Gray:

On October 24, 2012, the Frederick County Health Department (FCHD) and the Maryland Department of the Environment's (MDE) contractor, sampled your drinking water supply. A first draw sample and a flushed sample were collected from your household plumbing system to investigate the potential presence and source of certain contaminants.

The full laboratory analytical reports are attached. The results related to lead, chromium, methyl tertiary butyl ether (MTBE), and pH are summarized below for reference. Note that all concentrations are presented as micrograms per liter (µg/L) (also known as parts per billion [ppb]). If the specific substance was not detected, the value is preceded by a less than symbol ("<"). Measurements of pH are unitless.

	First Draw	Flushed	MCL/Action Level/Recommended Range
Total Chromium	<1.0	<1.0	100
Total Lead	1.2	323	15
Chromate / Hexavalent Chromium	<0.020	<0.020	0.3
Dissolved Chromium	<1.0	<1.0	n/a
Dissolved Lead	<1.0	76.1	n/a
MTBE	<0.5	<0.5	20
pH	6.94	6.42	6.5 – 8.5

The federal and state maximum contaminant level (MCL) for total chromium is 100 µg/L. There is no separate federal or state MCL for hexavalent chromium or for dissolved chromium. The MDE uses 0.3 µg/L as an action level for hexavalent chromium, because that is MDE's conservative lifetime exposure health based standard. The federal and state action level that warrants additional investigation for total lead in public drinking water supplies is 15 µg/L, so the MDE follows this level

as an action level for private water supplies. There is no separate level for dissolved lead. For MTBE, the state action level that warrants corrective measures is 20 µg/L. There is no federal action level for MTBE. The US EPA recommended pH range for drinking water is 6.5 to 8.5.

Hexavalent chromium and lead are metals that can be hazardous to human health. Both metals can occur naturally in the environment or may be generated by human activity. Home water pumps, piping and faucets also are known to be potential sources of lead in drinking water. MTBE is a compound associated with petroleum products.

The lead levels in the "Flushed" sample were elevated and require additional investigation. The MDE and FCHD will be discussing the next steps to investigate the source of the lead in the "Flushed" sample. We plan to contact you within the next few weeks about the proposed plan. In the meantime, it appears that the filtration equipment that you have installed in your home is filtering the lead from the water supply. The MDE and FCHD strongly recommend that you continue to properly maintain this equipment.

For questions relating to private drinking water wells, please visit the MDE website at: http://bit.ly/MDEreswells, or call the Water Management Administration at 410-537-3780. If you would like more information about the ongoing petroleum cleanups in the Monrovia area at the former Green Valley Citgo or the Green Valley Garage, please visit the MDE website at: http://bit.ly/MDEoilcontrolremediation, or call the Oil Control Program at 410-537-3443. The FCHD also has information relating to well maintenance and contaminants on its website, including links to the EPA's information on lead and chromium, at: http://bit.ly/FCHDWaterQuality, or call them at 301-600-1717.

Sincerely,

Christopher Ralston, Administrator
Oil Control Program

CHR/nln

Enclosure

cc: Dr. Barbara Brookmyer, FCHD Health Officer
Mr. Jay Sakai, Director, MDE Water Management Administration
Mr. Horacio Tablada, Director, MDE Land Management Administration
Priscilla Carroll, Esq., Assistant Attorney General
Francesca Gibbs, Esq., Assistant Attorney General
M. Albert Figinski, Esq., Law Offices of Peter G. Angelos
Dwight Stone, Esq., Whiteford Taylor Preston

ENVIRO-CHEM LABORATORIES, INC.

47 Loveton Circle, Suite K • Sparks, Maryland 21152 410-472-1112

FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 08-Nov-12
REPORT NUMBER: 3492

LAB#- ECL026973-001 SAMPLE ID- 11712 Serene - First Draw
LOCATION- Total
DATE SAMPLED- 10/24/2012 TIME SAMPLED- 15:00 SAMPLER- M. Emery
DATE RECEIVED- 10/25/2012 TIME RECEIVED- 10:05
DELIVERED BY- L. Bennett RECEIVED BY- CHK

Page 1 of 10

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromium	EPA 200.8	10/30/2012 11:39	CHK	< 1.0	µg/L	1.0
Lead	EPA 200.8	10/30/2012 11:39	CHK	1.2	µg/L	1.0

ENVIRO-CHEM LABORATORIES, INC.

410-472-1112

47 Loveton Circle, Suite K • Sparks, Maryland 21152

FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 08-Nov-12

REPORT NUMBER: 3492

LAB#- ECL026973-002 SAMPLE ID- 11712 Serene - First Draw
LOCATION- Dissolved
DATE SAMPLED- 10/24/2012 TIME SAMPLED- 15:00 SAMPLER- M. Emery
DATE RECEIVED- 10/25/2012 TIME RECEIVED- 10:05
DELIVERED BY- L. Bennett RECEIVED BY- CHK

Page 2 of 10

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromate	EPA 218.7	10/28/2012 06:33	SES	< 0.020	ug/L Cr	0.020
Chromium	EPA 200.8	10/30/2012 11:39	CHK	< 1.0	µg/L	1.0
Lead	EPA 200.8	10/30/2012 11:39	CHK	< 1.0	µg/L	1.0

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12102504

Chesapeake GeoSciences, Inc., Columbia, MD

November 8, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 11712 Serene-First Draw **Date/Time Sampled: 10/24/2012 15:00** **PSS Sample ID: 12102504-001**

Matrix: WATER **Date/Time Received: 10/25/2012 10:55**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Benzene	ND	ug/L	0.50		1	10/28/12	10/29/12 06:40	1014
Bromodichloromethane	ND	ug/L	0.50		1	10/28/12	10/29/12 06:40	1014
Bromoform	ND	ug/L	5.0		1	10/28/12	10/29/12 06:40	1014
Bromomethane	ND	ug/L	0.50		1	10/28/12	10/29/12 06:40	1014
Carbon Tetrachloride	ND	ug/L	0.50		1	10/28/12	10/29/12 06:40	1014
Chlorobenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 06:40	1014
Chloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 06:40	1014
Chloroform	ND	ug/L	0.50		1	10/28/12	10/29/12 06:40	1014
Chloromethane	ND	ug/L	0.50		1	10/28/12	10/29/12 06:40	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0		1	10/28/12	10/29/12 06:40	1014
Dibromochloromethane	ND	ug/L	0.50		1	10/28/12	10/29/12 06:40	1014
1,2-Dibromoethane	ND	ug/L	0.50		1	10/28/12	10/29/12 06:40	1014
1,2-Dichlorobenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 06:40	1014
1,3-Dichlorobenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 06:40	1014
1,4-Dichlorobenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 06:40	1014
Dichlorodifluoromethane	ND	ug/L	0.50		1	10/28/12	10/29/12 06:40	1014
1,1-Dichloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 06:40	1014
1,2-Dichloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 06:40	1014
cis-1,2-Dichloroethene	ND	ug/L	0.50		1	10/28/12	10/29/12 06:40	1014
trans-1,2-Dichloroethene	ND	ug/L	0.50		1	10/28/12	10/29/12 06:40	1014
1,1-Dichloroethene	ND	ug/L	0.50		1	10/28/12	10/29/12 06:40	1014
1,2-Dichloropropane	ND	ug/L	0.50		1	10/28/12	10/29/12 06:40	1014
Ethylbenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 06:40	1014
Isopropylbenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 06:40	1014
Methyl-t-butyl ether	ND	ug/L	0.50		1	10/28/12	10/29/12 06:40	1014
Naphthalene	ND	ug/L	0.50		1	10/28/12	10/29/12 06:40	1014
Styrene	ND	ug/L	0.50		1	10/28/12	10/29/12 06:40	1014
Diisopropyl ether	ND	ug/L	5.0		1	10/28/12	10/29/12 06:40	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 06:40	1014
Tetrachloroethylene	ND	ug/L	0.50		1	10/28/12	10/29/12 06:40	1014

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12102504
Chesapeake GeoSciences, Inc., Columbia, MD
November 8, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 11712 Serene-First Draw **Date/Time Sampled: 10/24/2012 15:00** **PSS Sample ID: 12102504-001**
Matrix: WATER **Date/Time Received: 10/25/2012 10:55**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Toluene	ND	ug/L	0.50		1	10/28/12	10/29/12 06:40	1014
1,2,4-Trichlorobenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 06:40	1014
1,1,1-Trichloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 06:40	1014
1,1,2-Trichloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 06:40	1014
Trichloroethene	ND	ug/L	0.50		1	10/28/12	10/29/12 06:40	1014
Vinyl Chloride	ND	ug/L	0.50		1	10/28/12	10/29/12 06:40	1014
o-Xylene	ND	ug/L	0.50		1	10/28/12	10/29/12 06:40	1014
m,p-Xylenes	ND	ug/L	1.0		1	10/28/12	10/29/12 06:40	1014
tert-Butyl ethyl ether	ND	ug/L	5.0		1	10/28/12	10/29/12 06:40	1014
tert-Butyl alcohol	ND	ug/L	20		1	10/28/12	10/29/12 06:40	1014
tert-Amyl methyl ether	ND	ug/L	5.0		1	10/28/12	10/29/12 06:40	1014

ENVIRO-CHEM LABORATORIES, INC.

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FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 08-Nov-12
REPORT NUMBER: 3492

LAB#- ECL026973-003 SAMPLE ID- 11712 Serene - Flushed
LOCATION- Total
DATE SAMPLED- 10/24/2012 TIME SAMPLED- 15:40 SAMPLER- M. Emery
DATE RECEIVED- 10/25/2012 TIME RECEIVED- 10:05
DELIVERED BY- L. Bennett RECEIVED BY- CHK

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromium	EPA 200.8	10/30/2012 11:39	CHK	< 1.0	µg/L	1.0
Lead	EPA 200.8	10/30/2012 11:39	CHK	323	µg/L	1.0

ENVIRO-CHEM
LABORATORIES, INC.

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FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 08-Nov-12
REPORT NUMBER: 3492

LAB#- ECL026973-004 SAMPLE ID- 11712 Serene - Flushed
LOCATION- Dissolved
DATE SAMPLED- 10/24/2012 TIME SAMPLED- 15:40 SAMPLER- M. Emery
DATE RECEIVED- 10/25/2012 TIME RECEIVED- 10:05
DELIVERED BY- L. Bennett RECEIVED BY- CHK

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromate	EPA 218.7	10/28/2012 06:52	SES	< 0.020	ug/L Cr	0.020
Chromium	EPA 200.8	10/30/2012 11:39	CHK	< 1.0	µg/L	1.0
Lead	EPA 200.8	10/30/2012 11:39	CHK	76.1	µg/L	1.0

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12102504

Chesapeake GeoSciences, Inc., Columbia, MD

November 8, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 11712 Serene-Flushed **Date/Time Sampled: 10/24/2012 15:40** **PSS Sample ID: 12102504-002**

Matrix: WATER **Date/Time Received: 10/25/2012 10:55**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Benzene	ND	ug/L	0.50		1	10/28/12	10/29/12 07:23	1014
Bromodichloromethane	ND	ug/L	0.50		1	10/28/12	10/29/12 07:23	1014
Bromoform	ND	ug/L	5.0		1	10/28/12	10/29/12 07:23	1014
Bromomethane	ND	ug/L	0.50		1	10/28/12	10/29/12 07:23	1014
Carbon Tetrachloride	ND	ug/L	0.50		1	10/28/12	10/29/12 07:23	1014
Chlorobenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 07:23	1014
Chloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 07:23	1014
Chloroform	ND	ug/L	0.50		1	10/28/12	10/29/12 07:23	1014
Chloromethane	ND	ug/L	0.50		1	10/28/12	10/29/12 07:23	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0		1	10/28/12	10/29/12 07:23	1014
Dibromochloromethane	ND	ug/L	0.50		1	10/28/12	10/29/12 07:23	1014
1,2-Dibromoethane	ND	ug/L	0.50		1	10/28/12	10/29/12 07:23	1014
1,2-Dichlorobenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 07:23	1014
1,3-Dichlorobenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 07:23	1014
1,4-Dichlorobenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 07:23	1014
Dichlorodifluoromethane	ND	ug/L	0.50		1	10/28/12	10/29/12 07:23	1014
1,1-Dichloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 07:23	1014
1,2-Dichloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 07:23	1014
cis-1,2-Dichloroethene	ND	ug/L	0.50		1	10/28/12	10/29/12 07:23	1014
trans-1,2-Dichloroethene	ND	ug/L	0.50		1	10/28/12	10/29/12 07:23	1014
1,1-Dichloroethene	ND	ug/L	0.50		1	10/28/12	10/29/12 07:23	1014
1,2-Dichloropropane	ND	ug/L	0.50		1	10/28/12	10/29/12 07:23	1014
Ethylbenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 07:23	1014
Isopropylbenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 07:23	1014
Methyl-t-butyl ether	ND	ug/L	0.50		1	10/28/12	10/29/12 07:23	1014
Naphthalene	ND	ug/L	0.50		1	10/28/12	10/29/12 07:23	1014
Styrene	ND	ug/L	0.50		1	10/28/12	10/29/12 07:23	1014
Diisopropyl ether	ND	ug/L	5.0		1	10/28/12	10/29/12 07:23	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 07:23	1014
Tetrachloroethylene	ND	ug/L	0.50		1	10/28/12	10/29/12 07:23	1014

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12102504
Chesapeake GeoSciences, Inc., Columbia, MD
November 8, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 11712 Serene-Flushed **Date/Time Sampled: 10/24/2012 15:40** **PSS Sample ID: 12102504-002**
Matrix: WATER **Date/Time Received: 10/25/2012 10:55**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Toluene	ND	ug/L	0.50		1	10/28/12	10/29/12 07:23	1014
1,2,4-Trichlorobenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 07:23	1014
1,1,1-Trichloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 07:23	1014
1,1,2-Trichloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 07:23	1014
Trichloroethene	ND	ug/L	0.50		1	10/28/12	10/29/12 07:23	1014
Vinyl Chloride	ND	ug/L	0.50		1	10/28/12	10/29/12 07:23	1014
o-Xylene	ND	ug/L	0.50		1	10/28/12	10/29/12 07:23	1014
m,p-Xylenes	ND	ug/L	1.0		1	10/28/12	10/29/12 07:23	1014
tert-Butyl ethyl ether	ND	ug/L	5.0		1	10/28/12	10/29/12 07:23	1014
tert-Butyl alcohol	ND	ug/L	20		1	10/28/12	10/29/12 07:23	1014
tert-Amyl methyl ether	ND	ug/L	5.0		1	10/28/12	10/29/12 07:23	1014

MARYLAND DEPARTMENT OF THE ENVIRONMENT
1800 Washington Boulevard • Baltimore MD 21230
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Martin O'Malley
Governor

Robert M. Summers, Ph.D.
Secretary

Anthony G. Brown
Lieutenant Governor

December 7, 2012

Mr. and Mrs. John and Mary Malone
11789 Thomas Spring Road
Monrovia MD 21770

RE: DRINKING WATER SAMPLING RESULTS
MDE-FCHD Groundwater Investigation
Green Valley / Monrovia
Frederick County, Maryland

Dear Mr. and Mrs. Malone:

On November 6, 2012, the Frederick County Health Department (FCHD) and the Maryland Department of the Environment's (MDE) contractor, sampled your drinking water supply. A first draw sample and a flushed sample were collected from your household plumbing system to investigate the potential presence and source of certain contaminants.

The full laboratory analytical reports are attached. The results related to lead, chromium, methyl tertiary-butyl ether (MTBE), and pH are summarized below for reference. Note that all concentrations are presented as micrograms per liter (μg/L) (also known as parts per billion [ppb]). If the specific substance was not detected, the value is preceded by a "less than" symbol ("<"). Measurements of pH are unitless.

	First Draw	Flushed	MCL/Action Level/Recommended Range
Total Chromium	<1.0	<1.0	100
Total Lead	2.5	<1.0	15
Chromate / Hexavalent Chromium	0.029	0.150	0.3
Dissolved Chromium	<1.0	<1.0	n/a
Dissolved Lead	1.2	<1.0	n/a
MTBE	<0.5	<0.5	20
pH	6.64	7.03	6.5 – 8.5

The federal and state maximum contaminant level (MCL) for total chromium is 100 μg/L. There is no separate federal or state MCL for hexavalent chromium or for dissolved chromium. The MDE uses 0.3 μg/L as an action level for hexavalent chromium, because that is MDE's conservative lifetime exposure health based standard. The federal and state action level that warrants additional investigation for total lead in public drinking water supplies is 15 μg/L, so the MDE follows this level as an action level for private water supplies. There is no separate level for dissolved lead. For MTBE, the state action level that warrants corrective measures is 20 μg/L. There is no federal action level for MTBE. The US EPA recommended pH range for drinking water is 6.5 to 8.5.

Hexavalent chromium and lead are metals that can be hazardous to human health. Both metals can occur naturally in the environment or may be generated by human activity. Home water pumps, piping and faucets also are known to be potential sources of lead in drinking water. MTBE is a compound associated with petroleum products.

The MDE and FCHD remind you to properly maintain any filtration equipment you use in your household and to follow all manufacturer recommendations. Additionally, both departments recommend that all private well users follow best practices to protect their wells and their family. This includes flushing your faucet for a few minutes prior to consuming the water, particularly after the water has not been used for an extended period of time.

For questions relating to private drinking water wells, please visit the MDE website at: http://bit.ly/MDEreswells, or call the Water Management Administration at 410-537-3780. If you would like more information about the ongoing petroleum cleanups in the Monrovia area at the former Green Valley Citgo or the Green Valley Garage, please visit the MDE website at: http://bit.ly/MDEoilcontrolremediation, or call the Oil Control Program at 410-537-3443. The FCHD also has information relating to well maintenance and contaminants on its website, including links to the EPA's information on lead and chromium, at: http://bit.ly/FCHDWaterQuality, or call them at 301-600-1717.

Sincerely,

Christopher Ralston, Administrator
Oil Control Program

CHR/nln

Enclosure

cc: Dr. Barbara Brookmyer, FCHD Health Officer
Mr. Jay Sakai, Director, MDE Water Management Administration
Mr. Horacio Tablada, Director, MDE Land Management Administration
Priscilla Carroll, Esq., Assistant Attorney General
Francesca Gibbs, Esq., Assistant Attorney General
M. Albert Figinski, Esq., Law Offices of Peter G. Angelos
Dwight Stone, Esq., Whiteford Taylor Preston

ENVIRO-CHEM LABORATORIES, INC.

47 Loveton Circle, Suite K • Sparks, Maryland 21152 410-472-1112

FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 20-Nov-12
REPORT NUMBER: 3639

LAB#- ECL027052-005 SAMPLE ID- 11789 Thomas Spring - First Draw
LOCATION- Total
DATE SAMPLED- 11/6/2012 TIME SAMPLED- 6:05 SAMPLER- M. Emery
DATE RECEIVED- 11/6/2012 TIME RECEIVED- 9:00
DELIVERED BY- M. Emery RECEIVED BY- SES

Page 5 of 8

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromium	EPA 200.8	11/13/2012 10:49	MAP	< 1.0	µg/L	1.0
Lead	EPA 200.8	11/13/2012 10:49	MAP	2.5	µg/L	1.0

ENVIRO-CHEM LABORATORIES, INC.

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FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 20-Nov-12
REPORT NUMBER: 3639

LAB#- ECL027052-006 SAMPLE ID- 11789 Thomas Spring - First Draw
LOCATION- Dissolved
DATE SAMPLED- 11/6/2012 TIME SAMPLED- 6:05 SAMPLER- M. Emery
DATE RECEIVED- 11/6/2012 TIME RECEIVED- 9:00
DELIVERED BY- M. Emery RECEIVED BY- SES

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromate	EPA 218.7	11/13/2012 23:43	SES	0.029	ug/L Cr	0.020
Chromium	EPA 200.8	11/13/2012 10:49	MAP	< 1.0	µg/L	1.0
Lead	EPA 200.8	11/13/2012 10:49	MAP	1.2	µg/L	1.0

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12110602
Chesapeake GeoSciences, Inc., Columbia, MD
November 20, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 11789 Thomas Spring-First Dr **Date/Time Sampled: 11/06/2012 06:05** **PSS Sample ID: 12110602-003**
Matrix: WATER **Date/Time Received: 11/06/2012 09:45**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Benzene	ND	ug/L	0.50		1	11/12/12	11/13/12 09:38	1014
Bromodichloromethane	ND	ug/L	0.50		1	11/12/12	11/13/12 09:38	1014
Bromoform	ND	ug/L	5.0		1	11/12/12	11/13/12 09:38	1014
Bromomethane	ND	ug/L	0.50		1	11/12/12	11/13/12 09:38	1014
Carbon Tetrachloride	ND	ug/L	0.50		1	11/12/12	11/13/12 09:38	1014
Chlorobenzene	ND	ug/L	0.50		1	11/12/12	11/13/12 09:38	1014
Chloroethane	ND	ug/L	0.50		1	11/12/12	11/13/12 09:38	1014
Chloroform	ND	ug/L	0.50		1	11/12/12	11/13/12 09:38	1014
Chloromethane	ND	ug/L	0.50		1	11/12/12	11/13/12 09:38	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0		1	11/12/12	11/13/12 09:38	1014
Dibromochloromethane	ND	ug/L	0.50		1	11/12/12	11/13/12 09:38	1014
1,2-Dibromoethane	ND	ug/L	0.50		1	11/12/12	11/13/12 09:38	1014
1,2-Dichlorobenzene	ND	ug/L	0.50		1	11/12/12	11/13/12 09:38	1014
1,3-Dichlorobenzene	ND	ug/L	0.50		1	11/12/12	11/13/12 09:38	1014
1,4-Dichlorobenzene	ND	ug/L	0.50		1	11/12/12	11/13/12 09:38	1014
Dichlorodifluoromethane	ND	ug/L	0.50		1	11/12/12	11/13/12 09:38	1014
1,1-Dichloroethane	ND	ug/L	0.50		1	11/12/12	11/13/12 09:38	1014
1,2-Dichloroethane	ND	ug/L	0.50		1	11/12/12	11/13/12 09:38	1014
cis-1,2-Dichloroethene	ND	ug/L	0.50		1	11/12/12	11/13/12 09:38	1014
trans-1,2-Dichloroethene	ND	ug/L	0.50		1	11/12/12	11/13/12 09:38	1014
1,1-Dichloroethene	ND	ug/L	0.50		1	11/12/12	11/13/12 09:38	1014
1,2-Dichloropropane	ND	ug/L	0.50		1	11/12/12	11/13/12 09:38	1014
Ethylbenzene	ND	ug/L	0.50		1	11/12/12	11/13/12 09:38	1014
Isopropylbenzene	ND	ug/L	0.50		1	11/12/12	11/13/12 09:38	1014
Methyl-t-butyl ether	ND	ug/L	0.50		1	11/12/12	11/13/12 09:38	1014
Naphthalene	ND	ug/L	0.50		1	11/12/12	11/13/12 09:38	1014
Styrene	ND	ug/L	0.50		1	11/12/12	11/13/12 09:38	1014
Diisopropyl ether	ND	ug/L	5.0		1	11/12/12	11/13/12 09:38	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50		1	11/12/12	11/13/12 09:38	1014
Tetrachloroethylene	ND	ug/L	0.50		1	11/12/12	11/13/12 09:38	1014

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12110602
Chesapeake GeoSciences, Inc., Columbia, MD
November 20, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 11789 Thomas Spring-First Dr: Date/Time Sampled: 11/06/2012 06:05 PSS Sample ID: 12110602-003
Matrix: WATER Date/Time Received: 11/06/2012 09:45

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Toluene	ND	ug/L	0.50		1	11/12/12	11/13/12 09:38	1014
1,2,4-Trichlorobenzene	ND	ug/L	0.50		1	11/12/12	11/13/12 09:38	1014
1,1,1-Trichloroethane	ND	ug/L	0.50		1	11/12/12	11/13/12 09:38	1014
1,1,2-Trichloroethane	ND	ug/L	0.50		1	11/12/12	11/13/12 09:38	1014
Trichloroethene	ND	ug/L	0.50		1	11/12/12	11/13/12 09:38	1014
Vinyl Chloride	ND	ug/L	0.50		1	11/12/12	11/13/12 09:38	1014
o-Xylene	ND	ug/L	0.50		1	11/12/12	11/13/12 09:38	1014
m,p-Xylenes	ND	ug/L	1.0		1	11/12/12	11/13/12 09:38	1014
tert-Butyl ethyl ether	ND	ug/L	5.0		1	11/12/12	11/13/12 09:38	1014
tert-Butyl alcohol	ND	ug/L	20		1	11/12/12	11/13/12 09:38	1014
tert-Amyl methyl ether	ND	ug/L	5.0		1	11/12/12	11/13/12 09:38	1014

ENVIRO-CHEM
LABORATORIES, INC.

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FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 20-Nov-12
REPORT NUMBER: 3639

LAB#- ECL027052-007 SAMPLE ID- 11789 Thomas Spring - Flushed
LOCATION- Total
DATE SAMPLED- 11/6/2012 TIME SAMPLED- 6:45 SAMPLER- M. Emery
DATE RECEIVED- 11/6/2012 TIME RECEIVED- 9:00
DELIVERED BY- M. Emery RECEIVED BY- SES

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromium	EPA 200.8	11/13/2012 10:49	MAP	< 1.0	µg/L	1.0
Lead	EPA 200.8	11/13/2012 10:49	MAP	< 1.0	µg/L	1.0

ENVIRO-CHEM LABORATORIES, INC.

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FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 20-Nov-12
REPORT NUMBER: 3639

LAB#- ECL027052-008 SAMPLE ID- 11789 Thomas Spring - Flushed
LOCATION- Dissolved
DATE SAMPLED- 11/6/2012 TIME SAMPLED- 6:45 SAMPLER- M. Emery
DATE RECEIVED- 11/6/2012 TIME RECEIVED- 9:00
DELIVERED BY- M. Emery RECEIVED BY- SES

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromate	EPA 218.7	11/14/2012 00:02	SES	0.150	ug/L Cr	0.020
Chromium	EPA 200.8	11/13/2012 10:49	MAP	< 1.0	µg/L	1.0
Lead	EPA 200.8	11/13/2012 10:49	MAP	< 1.0	µg/L	1.0

LABORATORY DIRECTOR

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12110602
Chesapeake GeoSciences, Inc., Columbia, MD
November 20, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 11789 Thomas Spring-Flushed Date/Time Sampled: 11/06/2012 06:45 PSS Sample ID: 12110602-004
Matrix: WATER Date/Time Received: 11/06/2012 09:45

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Benzene	ND	ug/L	0.50		1	11/12/12	11/13/12 10:19	1014
Bromodichloromethane	ND	ug/L	0.50		1	11/12/12	11/13/12 10:19	1014
Bromoform	ND	ug/L	5.0		1	11/12/12	11/13/12 10:19	1014
Bromomethane	ND	ug/L	0.50		1	11/12/12	11/13/12 10:19	1014
Carbon Tetrachloride	ND	ug/L	0.50		1	11/12/12	11/13/12 10:19	1014
Chlorobenzene	ND	ug/L	0.50		1	11/12/12	11/13/12 10:19	1014
Chloroethane	ND	ug/L	0.50		1	11/12/12	11/13/12 10:19	1014
Chloroform	ND	ug/L	0.50		1	11/12/12	11/13/12 10:19	1014
Chloromethane	ND	ug/L	0.50		1	11/12/12	11/13/12 10:19	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0		1	11/12/12	11/13/12 10:19	1014
Dibromochloromethane	ND	ug/L	0.50		1	11/12/12	11/13/12 10:19	1014
1,2-Dibromoethane	ND	ug/L	0.50		1	11/12/12	11/13/12 10:19	1014
1,2-Dichlorobenzene	ND	ug/L	0.50		1	11/12/12	11/13/12 10:19	1014
1,3-Dichlorobenzene	ND	ug/L	0.50		1	11/12/12	11/13/12 10:19	1014
1,4-Dichlorobenzene	ND	ug/L	0.50		1	11/12/12	11/13/12 10:19	1014
Dichlorodifluoromethane	ND	ug/L	0.50		1	11/12/12	11/13/12 10:19	1014
1,1-Dichloroethane	ND	ug/L	0.50		1	11/12/12	11/13/12 10:19	1014
1,2-Dichloroethane	ND	ug/L	0.50		1	11/12/12	11/13/12 10:19	1014
cis-1,2-Dichloroethene	ND	ug/L	0.50		1	11/12/12	11/13/12 10:19	1014
trans-1,2-Dichloroethene	ND	ug/L	0.50		1	11/12/12	11/13/12 10:19	1014
1,1-Dichloroethene	ND	ug/L	0.50		1	11/12/12	11/13/12 10:19	1014
1,2-Dichloropropane	ND	ug/L	0.50		1	11/12/12	11/13/12 10:19	1014
Ethylbenzene	ND	ug/L	0.50		1	11/12/12	11/13/12 10:19	1014
Isopropylbenzene	ND	ug/L	0.50		1	11/12/12	11/13/12 10:19	1014
Methyl-t-butyl ether	ND	ug/L	0.50		1	11/12/12	11/13/12 10:19	1014
Naphthalene	ND	ug/L	0.50		1	11/12/12	11/13/12 10:19	1014
Styrene	ND	ug/L	0.50		1	11/12/12	11/13/12 10:19	1014
Diisopropyl ether	ND	ug/L	5.0		1	11/12/12	11/13/12 10:19	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50		1	11/12/12	11/13/12 10:19	1014
Tetrachloroethylene	ND	ug/L	0.50		1	11/12/12	11/13/12 10:19	1014

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS
No: 12110602
Chesapeake GeoSciences, Inc., Columbia, MD
November 20, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 11789 Thomas Spring-Flushed Date/Time Sampled: 11/06/2012 06:45 PSS Sample ID: 12110602-004
Matrix: WATER Date/Time Received: 11/06/2012 09:45

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Toluene	ND	ug/L	0.50		1	11/12/12	11/13/12 10:19	1014
1,2,4-Trichlorobenzene	ND	ug/L	0.50		1	11/12/12	11/13/12 10:19	1014
1,1,1-Trichloroethane	ND	ug/L	0.50		1	11/12/12	11/13/12 10:19	1014
1,1,2-Trichloroethane	ND	ug/L	0.50		1	11/12/12	11/13/12 10:19	1014
Trichloroethene	ND	ug/L	0.50		1	11/12/12	11/13/12 10:19	1014
Vinyl Chloride	ND	ug/L	0.50		1	11/12/12	11/13/12 10:19	1014
o-Xylene	ND	ug/L	0.50		1	11/12/12	11/13/12 10:19	1014
m,p-Xylenes	ND	ug/L	1.0		1	11/12/12	11/13/12 10:19	1014
tert-Butyl ethyl ether	ND	ug/L	5.0		1	11/12/12	11/13/12 10:19	1014
tert-Butyl alcohol	ND	ug/L	20		1	11/12/12	11/13/12 10:19	1014
tert-Amyl methyl ether	ND	ug/L	5.0		1	11/12/12	11/13/12 10:19	1014

MDE

MARYLAND DEPARTMENT OF THE ENVIRONMENT
1800 Washington Boulevard • Baltimore MD 21230
410-537-3000 • 1-800-633-6101 • www.mde.state.md.us

Martin O'Malley
Governor

Anthony G. Brown
Lieutenant Governor

Robert M. Summers, Ph.D.
Secretary

December 7, 2012

Mr. and Mrs. Kirk and Annette Russell
11894 Barley Court
Monrovia MD 21770

RE: DRINKING WATER SAMPLING RESULTS
MDE-FCHD Groundwater Investigation
Green Valley / Monrovia
Frederick County, Maryland

Dear Mr. and Mrs. Russell:

On November 13, 2012, the Frederick County Health Department (FCHD) and the Maryland Department of the Environment's (MDE) contractor, sampled your drinking water supply. A first draw sample and a flushed sample were collected from your household plumbing system to investigate the potential presence and source of certain contaminants.

The full laboratory analytical reports are attached. The results related to lead, chromium, methyl tertiary-butyl ether (MTBE), and pH are summarized below for reference. Note that all concentrations are presented as micrograms per liter (µg/L) (also known as parts per billion [ppb]). If the specific substance was not detected, the value is preceded by a "less than" symbol ("<"). Measurements of pH are unitless.

	First Draw	Flushed	MCL/Action Level/Recommended Range
Total Chromium	<1.0	<1.0	100
Total Lead	4.8	2.2	15
Chromate / Hexavalent Chromium	<0.020	0.026	0.3
Dissolved Chromium	<1.0	1.3	n/a
Dissolved Lead	3.0	1.9	n/a
MTBE	<.05	<0.5	20
pH	6.94	7.01	6.5 – 8.5

The federal and state maximum contaminant level (MCL) for total chromium is 100 µg/L. There is no separate federal or state MCL for hexavalent chromium or for dissolved chromium. The MDE uses 0.3 µg/L as an action level for hexavalent chromium, because that is MDE's conservative lifetime exposure health based standard. The federal and state action level that warrants additional investigation for total lead in public drinking water supplies is 15 µg/L, so the MDE follows this level

as an action level for private water supplies. There is no separate level for dissolved lead. For MTBE, the state action level that warrants corrective measures is 20 μg/L. There is no federal action level for MTBE. The federal MCL for trihalomethanes, which chloroform is a part of, is 80 μg/L. The US EPA recommended pH range for drinking water is 6.5 to 8.5.

Hexavalent chromium and lead are metals that can be hazardous to human health. Both metals can occur naturally in the environment or may be generated by human activity. Home water pumps, piping, and faucets also are known to be potential sources of lead in drinking water. MTBE is a compound associated with petroleum products. Trihalomethanes, such as chloroform, occur when naturally-occurring organic and inorganic materials in the water react with the disinfectants, chlorine and chloramine.

The MDE and FCHD remind you to properly maintain any filtration equipment you use in your household and to follow all manufacturer recommendations. Additionally, both departments recommend that all private well users follow best practices to protect their wells and their family. This includes flushing your faucet for a few minutes prior to consuming the water, particularly after the water has not been used for an extended period of time.

For questions relating to private drinking water wells, please visit the MDE website at: http://bit.ly/MDEreswells, or call the Water Management Administration at 410-537-3780. If you would like more information about the ongoing petroleum cleanups in the Monrovia area at the former Green Valley Citgo or the Green Valley Garage, please visit the MDE website at: http://bit.ly/MDEoilcontrolremediation, or call the Oil Control Program at 410-537-3443. The FCHD also has information relating to well maintenance and contaminants on its website, including links to the EPA's information on lead and chromium, at: http://bit.ly/FCHDWaterQuality, or call them at 301-600-1717.

Sincerely,

Christopher Ralston, Administrator
Oil Control Program

CHR/nln
Enclosure
cc: Dr. Barbara Brookmyer, FCHD Health Officer
Mr. Jay Sakai, Director, MDE Water Management Administration
Mr. Horacio Tablada, Director, MDE Land Management Administration
Priscilla N. Carroll, Esq., Assistant Attorney General
Francesca Gibbs, Esq., Assistant Attorney General
M. Albert Figinski, Esq., Law Offices of Peter G. Angelos
Dwight Stone, Esq., Whiteford Taylor Preston

ENVIRO-CHEM LABORATORIES, INC.

47 Loveton Circle, Suite K • Sparks, Maryland 21152 410-472-1112

FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 24-Nov-12
REPORT NUMBER: 3653

LAB#- ECL027154-009 SAMPLE ID- 11894 Barley First Draw
LOCATION- Total
DATE SAMPLED- 11/13/2012 TIME SAMPLED- 16:55 SAMPLER- M. Emery
DATE RECEIVED- 11/14/2012 TIME RECEIVED- 11:05
DELIVERED BY- M. Emery RECEIVED BY- VPS

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromium	EPA 200.8	11/18/2012 10:03	MAP	< 1.0	µg/L	1.0
Lead	EPA 200.8	11/18/2012 10:03	MAP	4.8	µg/L	1.0

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FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 24-Nov-12
REPORT NUMBER: 3653

LAB#- ECL027154-010 SAMPLE ID- 11894 Barley First Draw
LOCATION- Dissolved
DATE SAMPLED- 11/13/2012 TIME SAMPLED- 16:55 SAMPLER- M. Emery
DATE RECEIVED- 11/14/2012 TIME RECEIVED- 11:05
DELIVERED BY- M. Emery RECEIVED BY- VPS

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromate	EPA 218.7	11/15/2012 13:34	SES	< 0.020	ug/L Cr	0.020
Chromium	EPA 200.8	11/18/2012 10:03	MAP	< 1.0	µg/L	1.0
Lead	EPA 200.8	11/18/2012 10:03	MAP	3.0	µg/L	1.0

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12111404
Chesapeake GeoSciences, Inc., Columbia, MD
November 30, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 11894 Barley-First Draw **Date/Time Sampled: 11/13/2012 16:55** **PSS Sample ID: 12111404-005**
Matrix: WATER **Date/Time Received: 11/14/2012 10:25**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Benzene	ND	ug/L	0.50		1	11/22/12	11/22/12 20:34	1014
Bromodichloromethane	ND	ug/L	0.50		1	11/22/12	11/22/12 20:34	1014
Bromoform	ND	ug/L	5.0		1	11/22/12	11/22/12 20:34	1014
Bromomethane	ND	ug/L	0.50		1	11/22/12	11/22/12 20:34	1014
Carbon Tetrachloride	ND	ug/L	0.50		1	11/22/12	11/22/12 20:34	1014
Chlorobenzene	ND	ug/L	0.50		1	11/22/12	11/22/12 20:34	1014
Chloroethane	ND	ug/L	0.50		1	11/22/12	11/22/12 20:34	1014
Chloroform	**0.56**	ug/L	0.50		1	11/22/12	11/22/12 20:34	1014
Chloromethane	ND	ug/L	0.50		1	11/22/12	11/22/12 20:34	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0		1	11/22/12	11/22/12 20:34	1014
Dibromochloromethane	ND	ug/L	0.50		1	11/22/12	11/22/12 20:34	1014
1,2-Dibromoethane	ND	ug/L	0.50		1	11/22/12	11/22/12 20:34	1014
1,2-Dichlorobenzene	ND	ug/L	0.50		1	11/22/12	11/22/12 20:34	1014
1,3-Dichlorobenzene	ND	ug/L	0.50		1	11/22/12	11/22/12 20:34	1014
1,4-Dichlorobenzene	ND	ug/L	0.50		1	11/22/12	11/22/12 20:34	1014
Dichlorodifluoromethane	ND	ug/L	0.50		1	11/22/12	11/22/12 20:34	1014
1,1-Dichloroethane	ND	ug/L	0.50		1	11/22/12	11/22/12 20:34	1014
1,2-Dichloroethane	ND	ug/L	0.50		1	11/22/12	11/22/12 20:34	1014
cis-1,2-Dichloroethene	ND	ug/L	0.50		1	11/22/12	11/22/12 20:34	1014
trans-1,2-Dichloroethene	ND	ug/L	0.50		1	11/22/12	11/22/12 20:34	1014
1,1-Dichloroethene	ND	ug/L	0.50		1	11/22/12	11/22/12 20:34	1014
1,2-Dichloropropane	ND	ug/L	0.50		1	11/22/12	11/22/12 20:34	1014
Ethylbenzene	ND	ug/L	0.50		1	11/22/12	11/22/12 20:34	1014
Isopropylbenzene	ND	ug/L	0.50		1	11/22/12	11/22/12 20:34	1014
Methyl-t-butyl ether	ND	ug/L	0.50		1	11/22/12	11/22/12 20:34	1014
Naphthalene	ND	ug/L	0.50		1	11/22/12	11/22/12 20:34	1014
Styrene	ND	ug/L	0.50		1	11/22/12	11/22/12 20:34	1014
Diisopropyl ether	ND	ug/L	5.0		1	11/22/12	11/22/12 20:34	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50		1	11/22/12	11/22/12 20:34	1014
Tetrachloroethylene	ND	ug/L	0.50		1	11/22/12	11/22/12 20:34	1014

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12111404
Chesapeake GeoSciences, Inc., Columbia, MD
November 30, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 11894 Barley-First Draw **Date/Time Sampled: 11/13/2012 16:55** **PSS Sample ID: 12111404-005**
Matrix: WATER **Date/Time Received: 11/14/2012 10:25**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Toluene	ND	ug/L	0.50		1	11/22/12	11/22/12 20:34	1014
1,2,4-Trichlorobenzene	ND	ug/L	0.50		1	11/22/12	11/22/12 20:34	1014
1,1,1-Trichloroethane	ND	ug/L	0.50		1	11/22/12	11/22/12 20:34	1014
1,1,2-Trichloroethane	ND	ug/L	0.50		1	11/22/12	11/22/12 20:34	1014
Trichloroethene	ND	ug/L	0.50		1	11/22/12	11/22/12 20:34	1014
Vinyl Chloride	ND	ug/L	0.50		1	11/22/12	11/22/12 20:34	1014
o-Xylene	ND	ug/L	0.50		1	11/22/12	11/22/12 20:34	1014
m,p-Xylenes	ND	ug/L	1.0		1	11/22/12	11/22/12 20:34	1014
tert-Butyl ethyl ether	ND	ug/L	5.0		1	11/22/12	11/22/12 20:34	1014
tert-Butyl alcohol	ND	ug/L	20		1	11/22/12	11/22/12 20:34	1014
tert-Amyl methyl ether	ND	ug/L	5.0		1	11/22/12	11/22/12 20:34	1014

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FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 24-Nov-12
REPORT NUMBER: 3653

LAB#- ECL027154-011 SAMPLE ID- 11894 Barley Flushed
LOCATION- Total
DATE SAMPLED- 11/13/2012 TIME SAMPLED- 17:30 SAMPLER- M. Emery
DATE RECEIVED- 11/14/2012 TIME RECEIVED- 11:05
DELIVERED BY- M. Emery RECEIVED BY- VPS

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromium	EPA 200.8	11/18/2012 10:03	MAP	<1.0	µg/L	1.0
Lead	EPA 200.8	11/18/2012 10:03	MAP	2.2	µg/L	1.0

ENVIRO-CHEM LABORATORIES, INC.

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FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
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PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 24-Nov-12

REPORT NUMBER: 3653

LAB#- ECL027154-012 SAMPLE ID- 11894 Barley Flushed
LOCATION- Dissolved
DATE SAMPLED- 11/13/2012 TIME SAMPLED- 17:30 SAMPLER- M. Emery
DATE RECEIVED- 11/14/2012 TIME RECEIVED- 11:05
DELIVERED BY- M. Emery RECEIVED BY- VPS

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromate	EPA 218.7	11/15/2012 13:53	SES	0.026	ug/L Cr	0.020
Chromium	EPA 200.8	11/18/2012 10:03	MAP	1.3	µg/L	1.0
Lead	EPA 200.8	11/18/2012 10:03	MAP	1.9	µg/L	1.0

Stephen E. Stills
LABORATORY DIRECTOR

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12111404
Chesapeake GeoSciences, Inc., Columbia, MD
November 30, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 11894 Barley-Flushed **Date/Time Sampled: 11/13/2012 17:30** **PSS Sample ID: 12111404-006**
Matrix: WATER **Date/Time Received: 11/14/2012 10:25**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Benzene	ND	ug/L	0.50		1	11/22/12	11/22/12 21:14	1014
Bromodichloromethane	ND	ug/L	0.50		1	11/22/12	11/22/12 21:14	1014
Bromoform	ND	ug/L	5.0		1	11/22/12	11/22/12 21:14	1014
Bromomethane	ND	ug/L	0.50		1	11/22/12	11/22/12 21:14	1014
Carbon Tetrachloride	ND	ug/L	0.50		1	11/22/12	11/22/12 21:14	1014
Chlorobenzene	ND	ug/L	0.50		1	11/22/12	11/22/12 21:14	1014
Chloroethane	ND	ug/L	0.50		1	11/22/12	11/22/12 21:14	1014
Chloroform	**0.59**	ug/L	0.50		1	11/22/12	11/22/12 21:14	1014
Chloromethane	ND	ug/L	0.50		1	11/22/12	11/22/12 21:14	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0		1	11/22/12	11/22/12 21:14	1014
Dibromochloromethane	ND	ug/L	0.50		1	11/22/12	11/22/12 21:14	1014
1,2-Dibromoethane	ND	ug/L	0.50		1	11/22/12	11/22/12 21:14	1014
1,2-Dichlorobenzene	ND	ug/L	0.50		1	11/22/12	11/22/12 21:14	1014
1,3-Dichlorobenzene	ND	ug/L	0.50		1	11/22/12	11/22/12 21:14	1014
1,4-Dichlorobenzene	ND	ug/L	0.50		1	11/22/12	11/22/12 21:14	1014
Dichlorodifluoromethane	ND	ug/L	0.50		1	11/22/12	11/22/12 21:14	1014
1,1-Dichloroethane	ND	ug/L	0.50		1	11/22/12	11/22/12 21:14	1014
1,2-Dichloroethane	ND	ug/L	0.50		1	11/22/12	11/22/12 21:14	1014
cis-1,2-Dichloroethene	ND	ug/L	0.50		1	11/22/12	11/22/12 21:14	1014
trans-1,2-Dichloroethene	ND	ug/L	0.50		1	11/22/12	11/22/12 21:14	1014
1,1-Dichloroethene	ND	ug/L	0.50		1	11/22/12	11/22/12 21:14	1014
1,2-Dichloropropane	ND	ug/L	0.50		1	11/22/12	11/22/12 21:14	1014
Ethylbenzene	ND	ug/L	0.50		1	11/22/12	11/22/12 21:14	1014
Isopropylbenzene	ND	ug/L	0.50		1	11/22/12	11/22/12 21:14	1014
Methyl-t-butyl ether	ND	ug/L	0.50		1	11/22/12	11/22/12 21:14	1014
Naphthalene	ND	ug/L	0.50		1	11/22/12	11/22/12 21:14	1014
Styrene	ND	ug/L	0.50		1	11/22/12	11/22/12 21:14	1014
Diisopropyl ether	ND	ug/L	5.0		1	11/22/12	11/22/12 21:14	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50		1	11/22/12	11/22/12 21:14	1014
Tetrachloroethylene	ND	ug/L	0.50		1	11/22/12	11/22/12 21:14	1014

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12111404
Chesapeake GeoSciences, Inc., Columbia, MD
November 30, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 11894 Barley-Flushed **Date/Time Sampled: 11/13/2012 17:30** **PSS Sample ID: 12111404-006**
Matrix: WATER **Date/Time Received: 11/14/2012 10:25**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Toluene	ND	ug/L	0.50		1	11/22/12	11/22/12 21:14	1014
1,2,4-Trichlorobenzene	ND	ug/L	0.50		1	11/22/12	11/22/12 21:14	1014
1,1,1-Trichloroethane	ND	ug/L	0.50		1	11/22/12	11/22/12 21:14	1014
1,1,2-Trichloroethane	ND	ug/L	0.50		1	11/22/12	11/22/12 21:14	1014
Trichloroethene	ND	ug/L	0.50		1	11/22/12	11/22/12 21:14	1014
Vinyl Chloride	ND	ug/L	0.50		1	11/22/12	11/22/12 21:14	1014
o-Xylene	ND	ug/L	0.50		1	11/22/12	11/22/12 21:14	1014
m,p-Xylenes	ND	ug/L	1.0		1	11/22/12	11/22/12 21:14	1014
tert-Butyl ethyl ether	ND	ug/L	5.0		1	11/22/12	11/22/12 21:14	1014
tert-Butyl alcohol	ND	ug/L	20		1	11/22/12	11/22/12 21:14	1014
tert-Amyl methyl ether	ND	ug/L	5.0		1	11/22/12	11/22/12 21:14	1014

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Secretary

December 20, 2012

Mr. and Mrs. Benjamin and Heather Gray
11712 Serene Court
Monrovia MD 21770

RE: PROPOSED ADDITIONAL INVESTIGATION
MDE-FCHD Groundwater Investigation
Green Valley / Monrovia
Frederick County, Maryland

Dear Mr. and Mrs. Gray:

On October 24, 2012, the Frederick County Health Department (FCHD) and the Maryland Department of the Environment's (MDE) contractor, sampled your drinking water supply. Those results were provided to you in a letter dated November 16, 2012 (attached for convenience). The results showed that lead was detected at a concentration of 323 micrograms per liter (µg/L) in the flushed sample and 1.2 µg/L in the first draw sample. The disparity between the two sample results was likely due to the water treatment systems that you have in place, particularly the sediment filter.

Through correspondence from your attorney, the Law Offices of Peter G. Angelos, and the Jenkins Environmental firm (letter attached), the Departments understand that your pre-treatment lead results have been elevated since the first sample collected from the pressure tank in your basement on August 7, 2012. The sample results we are aware of are summarized below.

Summary of Lead Results from 11712 Serene Court

Date	Total	Dissolved	Location	Source
Point of Use				
8/23/12	3		Point of Use	Jenkins
10/24/12	1.2	<1.0	Kitchen Sink	MDE-FCHD
Pressure Tank				
8/7/12	980		Pressure Tank	Jenkins
8/23/12	460		Pressure Tank	Jenkins
10/24/12	323	76.1	Pressure Tank	MDE-FCHD
10/24/12	129	80.4	Pressure Tank (duplicate)	MDE-FCHD

- All results in µg/L

The Departments are continuing to investigate the potential origins of and factors contributing to positive lead results in some water supplies in the Monrovia / Green Valley area, including whether lead concentrations are from the regional groundwater or are in some way attributable to plumbing systems. The Departments are proposing to conduct a two phased investigation on your property to collect additional information that may help in reaching some conclusions.

The first phase would be relatively nonintrusive and consist of collecting a series of samples from the spigot located at the base of the pressure tank, which is estimated to take less than a day to complete. We propose to shut off the power to the submersible pump in your well, to close the valve on the effluent side of your sediment filter, and to drain the line and pressure tank from the subject spigot. The vacuum release valve on the sediment filter will likely be engaged in order to completely drain the line. Once drained, the valves would be returned to normal and the power restored to the pump so that the pressure tank can be recharged. This process would be repeated a total of three times. Every precaution will be taken to containerize all purged water. At the conclusion of this series of purges, the power will be restored to the pump and all valves placed into the normal operating position. The contractor would also ensure that all lines are purged of any air that may have been introduced during the procedure.

The second phase is more intrusive and it would cause your family to be unable to use your water for a period of two to four days. With this phase, a contractor (a licensed master plumber) would remove the submersible pump and associated piping and wiring completely from your supply well. All components will be thoroughly inspected and stored for reinstallation. If any repairs or replacements are required, the contractor will complete that work prior to reinstallation.

Once removed, a series of samples will be collected from the well at discrete depths beginning at about 70 feet below ground surface (corresponding to the noted water bearing zone in the well installation log) and then continuing approximately every 100 feet thereafter (i.e. 175, 275, and 375 feet below ground surface). The contractor will then use a separate submersible pump to purge the well bore and collect another series of samples. Once the final samples are collected and the sampling equipment is removed, the licensed master plumber will reinstall your submersible pump and ensure it is properly operating. The plumber will also begin the chlorination process.

All samples would be analyzed for the same constituents as previously collected and the results would be provided to you once received from the laboratories. The same laboratories will be used as in the last sampling event.

During the two to four days that you would not be able to use your water supply, bottled water could be provided for use to assist with the inconvenience. We can also work with you on scheduling the work to coincide with a more convenient time (e.g. if you were away from your home on vacation). In a situation such as this, our contractor would need to be granted access to the electrical panel in the home by another person.

Both of these investigative phases are completely voluntary and will be at no cost to you for the work described, but we understand that they will not be without inconvenience. To assist with your consideration, the work plan from our contractor is attached for your review. Note also that if you were uncomfortable with the more intrusive second phase, but willing to allow the first phase to be conducted, we would certainly appreciate that opportunity. We also welcome the opportunity to answer your questions and discuss these plans in more detail with you.

The MDE and FCHD appreciate your cooperation in their investigation of the groundwater resources in the Monrovia / Green Valley area, and are interested in conducting this work at your earliest convenience. In the meantime, it appears that the filtration equipment that you have installed in your home is filtering the lead from your water supply. We strongly recommend that you continue to properly maintain this equipment.

Please call me at 410-537-3443 (email: cralston@mde.state.md.us) if you have any questions, would like to schedule a meeting to discuss this proposal, or would like to move forward with scheduling the work. Our contractors could be prepared to begin the first phase of the work in January 2013.

Sincerely,

Christopher Ralston, Administrator
Oil Control Program

CHR/nln

Enclosures

cc: Dr. Barbara Brookmyer, FCHD Health Officer
Mr. Jay Sakai, Director, MDE Water Management Administration
Mr. Horacio Tablada, Director, MDE Land Management Administration
Priscilla Carroll, Esq., Assistant Attorney General
Francesca Gibbs, Esq., Assistant Attorney General
M. Albert Figinski, Esq., Law Offices of Peter G. Angelos
Dwight Stone, Esq., Whiteford Taylor Preston

[illegible]

ENVIRO-CHEM
LABORATORIES, INC.

47 Loveton Circle, Suite K • Sparks, Maryland 21152 410-472-1112

FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 08-Nov-12
REPORT NUMBER: 3492

LAB#- ECL026973-001 SAMPLE ID- 11712 Serene - First Draw
LOCATION- Total
DATE SAMPLED- 10/24/2012 TIME SAMPLED- 15:00 SAMPLER- M. Emery
DATE RECEIVED- 10/25/2012 TIME RECEIVED- 10:05
DELIVERED BY- L. Bennett RECEIVED BY- CHK

Page 1 of 10

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromium	EPA 200.8	10/30/2012 11:39	CHK	< 1.0	µg/L	1.0
Lead	EPA 200.8	10/30/2012 11:39	CHK	1.2	µg/L	1.0

ENVIRO-CHEM LABORATORIES, INC.

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FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 08-Nov-12
REPORT NUMBER: 3492

LAB#- ECL026973-002 SAMPLE ID- 11712 Serene - First Draw
LOCATION- Dissolved
DATE SAMPLED- 10/24/2012 TIME SAMPLED- 15:00 SAMPLER- M. Emery
DATE RECEIVED- 10/25/2012 TIME RECEIVED- 10:05
DELIVERED BY- L. Bennett RECEIVED BY- CHK

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromate	EPA 218.7	10/28/2012 06:33	SES	< 0.020	ug/L Cr	0.020
Chromium	EPA 200.8	10/30/2012 11:39	CHK	< 1.0	µg/L	1.0
Lead	EPA 200.8	10/30/2012 11:39	CHK	< 1.0	µg/L	1.0

ENVIRO-CHEM LABORATORIES, INC.

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FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 08-Nov-12
REPORT NUMBER: 3492

LAB#- ECL026973-003 SAMPLE ID- 11712 Serene - Flushed
LOCATION- Total
DATE SAMPLED- 10/24/2012 TIME SAMPLED- 15:40 SAMPLER- M. Emery
DATE RECEIVED- 10/25/2012 TIME RECEIVED- 10:05
DELIVERED BY- L. Bennett RECEIVED BY- CHK

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromium	EPA 200.8	10/30/2012 11:39	CHK	< 1.0	µg/L	1.0
Lead	EPA 200.8	10/30/2012 11:39	CHK	323	µg/L	1.0

ENVIRO-CHEM LABORATORIES, INC.

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410-472-1112

FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 08-Nov-12
REPORT NUMBER: 3492

LAB#- ECL026973-004 SAMPLE ID- 11712 Serene - Flushed
LOCATION- Dissolved
DATE SAMPLED- 10/24/2012 TIME SAMPLED- 15:40 SAMPLER- M. Emery
DATE RECEIVED- 10/25/2012 TIME RECEIVED- 10:05
DELIVERED BY- L. Bennett RECEIVED BY- CHK

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromate	EPA 218.7	10/28/2012 06:52	SES	< 0.020	ug/L Cr	0.020
Chromium	EPA 200.8	10/30/2012 11:39	CHK	< 1.0	µg/L	1.0
Lead	EPA 200.8	10/30/2012 11:39	CHK	76.1	µg/L	1.0

ENVIRO-CHEM LABORATORIES, INC.

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FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 08-Nov-12
REPORT NUMBER: 3492

LAB#- ECL026973-005 SAMPLE ID- 3996 Farm - First Draw
LOCATION- Total
DATE SAMPLED- 10/24/2012 TIME SAMPLED- 16:15 SAMPLER- M. Emery
DATE RECEIVED- 10/25/2012 TIME RECEIVED- 10:05
DELIVERED BY- L. Bennett RECEIVED BY- CHK

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromium	EPA 200.8	10/30/2012 11:39	CHK	< 1.0	µg/L	1.0
Lead	EPA 200.8	10/30/2012 11:39	CHK	19.2	µg/L	1.0

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FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 08-Nov-12

REPORT NUMBER: 3492

LAB#- ECL026973-006 SAMPLE ID- 3996 Farm - First Draw
LOCATION- Dissolved
DATE SAMPLED- 10/24/2012 TIME SAMPLED- 16:15 SAMPLER- M. Emery
DATE RECEIVED- 10/25/2012 TIME RECEIVED- 10:05
DELIVERED BY- L. Bennett RECEIVED BY- CHK

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromate	EPA 218.7	10/28/2012 07:48	SES	< 0.020	ug/L Cr	0.020
Chromium	EPA 200.8	10/30/2012 11:39	CHK	< 1.0	µg/L	1.0
Lead	EPA 200.8	10/30/2012 11:39	CHK	7.4	µg/L	1.0

ENVIRO-CHEM LABORATORIES, INC.

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FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 08-Nov-12
REPORT NUMBER: 3492

LAB#- ECL026973-009 SAMPLE ID- 11712 Serene - Flushed DB
LOCATION- Total
DATE SAMPLED- 10/24/2012 TIME SAMPLED- SAMPLER- M. Emery
DATE RECEIVED- 10/25/2012 TIME RECEIVED- 10:05
DELIVERED BY- L. Bennett RECEIVED BY- CHK

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromium	EPA 200.8	10/30/2012 11:39	CHK	< 1.0	µg/L	1.0
Lead	EPA 200.8	10/30/2012 11:39	CHK	129	µg/L	1.0

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FINAL REPORT OF ANALYSES

Chesapeake GeoSciences, Inc.
5405 Twin Knolls Rd
Suite 1
Columbia, MD 21045-

PROJECT NAME: Grn Vlly Citgo
REPORT DATE: 08-Nov-12
REPORT NUMBER: 3492

LAB#- ECL026973-010 SAMPLE ID- 11712 Serene - Flushed DB
LOCATION- Dissolved
DATE SAMPLED- 10/24/2012 TIME SAMPLED- . SAMPLER- M. Emery
DATE RECEIVED- 10/25/2012 TIME RECEIVED- 10:05
DELIVERED BY- L. Bennett RECEIVED BY- CHK

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromate	EPA 218.7	10/28/2012 08:26	SES	< 0.020	ug/L Cr	0.020
Chromium	EPA 200.8	10/30/2012 11:39	CHK	< 1.0	µg/L	1.0
Lead	EPA 200.8	10/30/2012 11:39	CHK	80.4	µg/L	1.0

Stephen E. Shelly
LABORATORY DIRECTOR

Sample Chain of Custody

26973

Enviro-Chem Laboratories, Inc. 47 Loveton Circle, Suite K **Sparks, MD 21152**

Client: Chesapeake GeoSciences, Inc. Phone No.: 410-740-1911
Project Manager: Sean Daniel Fax No.: 410-740-3299
Sampler: Matt Emery Email: sdaniel@cgs.us.com
Project Name: GV Citgo/Monrovia BP Project Number: CG-12-0788.03
P.O.Number: CG12078803 SD

ECL Log in Batch Number — Page 1 of 1

$(NH_4)_2SO_4$ + (NH_4OH)

Enviro-Chem Lab No.	Sample Identification (As it is to appear on report)	Date Sampled	Time Sampled	Matrix	No. of Containers	Sample Type C = Comp. G = Grab	Total Chromium/Total Lead EPA 200.8 (Preservative: N)	Dissolved Lead/Dissolved Chrom. 200.8 (Preservative: NA)	Hexavalent Chrom. EPA 218.7						Remarks
~~26793-001~~ 26973-001 ~~26793-002~~ 26973-002	11712 Serene-First Draw	10/24/12	15:00	DW	3	G	X	X	X						
~~26793-003~~ 26973-003 ~~26793-004~~ 26973-004	11712 Serene-flushed	10/24/12	15:40	DW	3	G	X	X	X						
~~26793-005~~ 26973-005 ~~26793-006~~ 26973-006	3996 Farm-First Draw	10/24/12	16:15	DW	3	G	X	X	X						
~~26793-007~~ 26973-007 ~~26793-008~~ 26973-008	3996 Farm-Flushed	10/24/12	16:40	DW	3	G	X	X	X						
~~26793-009~~ 26973-009 ~~26793-010~~ 26973-010	11712 Serene-Flushed DB	10/24/12	—	DW	3	G	X	X	X						

Preservative Key:
NA = Nitric Acid, pH <2
SA = Sulfuric Acid, pH <2
OH = NaOH, pH >12
Th = Thiosulfate
Zn = Zinc Acetate
N = None, Chilled
X = Other

	Date	Time	Received By
Collected / Relinquished By: [signature] / Matt Emery	10/25/12	10:05	Clare n Hlizyak
Relinquished By			
Relinquished By			
Relinquished By			

Deliverables Required:
Coolers: 1 Seal:
Due Date:
Ice Present: Yes Temp: 5.9°C
Turnaround Requested: STD 1-Day Other Rush?
Special instructions, Comments:

COC/Labels match: (Y) N
Bottles intact/appropriate: (Y) N
# of Samples: 10 # of Bottles: 15
Preserved correctly: (Y) N NA
Explain any "NO" answers:
Preservative added at Lab: (Y) N NA
Completed by: CMC

For total metals HNO_3 added 10/25/12 15:30 CMC

Analytical Report for

Chesapeake GeoSciences, Inc.

Certificate of Analysis No.: 12102504

Project Manager: Sean Daniel
Project Name : Monrovia BP/Former Green Valley Citgo

Project ID : CG-12-0788.03

November 8, 2012

Phase Separation Science, Inc.
6630 Baltimore National Pike
Baltimore, MD 21228
Phone: (410) 747-8770
Fax: (410) 788-8723

OFFICES:
6630 BALTIMORE NATIONAL PIKE
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410-747-8770
800-932-9047
FAX 410-788-8723

PHASE SEPARATION SCIENCE, INC.

November 8, 2012

Sean Daniel
Chesapeake GeoSciences, Inc.
5405 Twin Knolls Road, Suite 1
Columbia, MD 21045

Reference: PSS Work Order No: **12102504**
Project Name: Monrovia BP/Former Green Valley Citgo
Project Location: N/A
Project ID.: CG-12-0788.03

Dear Sean Daniel :

This report includes the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Work Order numbered **12102504**.

All work reported herein has been performed in accordance with current NELAP standards, referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual unless otherwise noted in the Case Narrative Summary. PSS is limited in liability to the actual cost of the sample analysis done.

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on November 29, 2012. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt , the request will be acknowledged by PSS, thus extending the storage period.

This report shall not be reproduced except in full, without the written approval of an authorized PSS representative. A copy of this report will be retained by PSS for at least 5 years, after which time it will be disposed of without further notice, unless prior arrangements have been made.

We thank you for selecting Phase Separation Science, Inc. to serve your analytical needs. If you have any questions concerning this report, do not hesitate to contact us at 410-747-8770 or info@phaseonline.com.

Dan Prucnal

Dan Prucnal
Laboratory Manager

Sample Summary

Client Name: Chesapeake GeoSciences, Inc.

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03 **Work Order Number: 12102504**

The following samples were received under chain of custody by Phase Separation Science (PSS) on 10/25/2012 at 10:55 am

Lab Sample Id	Sample Id	Matrix	Date/Time Collected
12102504-001	11712 Serene-First Draw	WATER	10/24/2012 15:00
12102504-002	11712 Serene-Flushed	WATER	10/24/2012 15:40
12102504-003	3996 Farm-First Draw	WATER	10/24/2012 16:15
12102504-004	3996 Farm-Flushed	WATER	10/24/2012 16:40
12102504-005	11712 Serene-Flushed DB	WATER	10/24/2012 00:00
12102504-006	T-7	WATER	10/24/2012 13:45

Please reference the Chain of Custody and Sample Receipt Checklist for specific container counts and preservatives. Any sample conditions not in compliance with sample acceptance criteria are described in Case Narrative Summary.

Notes:

1. The presence of common laboratory contaminants such as acetone, methylene chloride and phthalates, may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
2. The following analytical results are never reported on a dry weight basis: pH, flashpoint, moisture and paint filter test.
3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].
4. The analyses of 1,2-dibromo-3-chloropropane (DBCP) and 1,2-dibromoethane (EDB) by EPA 524.2 and calcium, magnesium, sodium and iron by EPA 200.8 are not currently promulgated for use in testing to meet the Safe Drinking Water Act and as such cannot be used for compliance purposes. The listings of the current promulgated methods for testing in compliance with the Safe Drinking Water Act can be found in the 40 CFR part 141.1, for the primary drinking water contaminates, and part 141.3, for the secondary drinking water contaminates.

Standard Flags/Abbreviations:

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
C Results Pending Final Confirmation.
E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
Fail The result exceeds the regulatory level for Toxicity Characteristic (TCLP) as cited in 40 CFR 261.24 Table 1.
J The target analyte was positively identified below the reporting limit but greater than the LOD.
LOD Limit of Detection. An estimate of the minimum amount of a substance that an analytical process can reliably detect. An LOD is analyte and matrix specific.
ND Not Detected at or above the reporting limit.
RL PSS Reporting Limit.
U Not detected.

Case Narrative Summary

Client Name: Chesapeake GeoSciences, Inc.

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03 | Work Order Number: 12102504

Any holding time exceedances, deviations from the method specifications, regulatory requirements or variations to the procedures outlined in the PSS Quality Assurance Manual are outlined below.

Sample Receipt:

All sample receipt conditions were acceptable.

NELAP accreditation was held for all analyses performed unless noted below. See www.phaseonline.com for complete PSS scope of accreditation.

1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane

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6630 BALTIMORE NATIONAL PIKE
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BALTIMORE, MD 21228
410-747-8770
800-932-9047
FAX 410-788-8723

PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12102504
Chesapeake GeoSciences, Inc., Columbia, MD
November 8, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 11712 Serene-First Draw **Date/Time Sampled: 10/24/2012 15:00** **PSS Sample ID: 12102504-001**
Matrix: WATER **Date/Time Received: 10/25/2012 10:55**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Benzene	ND	ug/L	0.50		1	10/28/12	10/29/12 06:40	1014
Bromodichloromethane	ND	ug/L	0.50		1	10/28/12	10/29/12 06:40	1014
Bromoform	ND	ug/L	5.0		1	10/28/12	10/29/12 06:40	1014
Bromomethane	ND	ug/L	0.50		1	10/28/12	10/29/12 06:40	1014
Carbon Tetrachloride	ND	ug/L	0.50		1	10/28/12	10/29/12 06:40	1014
Chlorobenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 06:40	1014
Chloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 06:40	1014
Chloroform	ND	ug/L	0.50		1	10/28/12	10/29/12 06:40	1014
Chloromethane	ND	ug/L	0.50		1	10/28/12	10/29/12 06:40	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0		1	10/28/12	10/29/12 06:40	1014
Dibromochloromethane	ND	ug/L	0.50		1	10/28/12	10/29/12 06:40	1014
1,2-Dibromoethane	ND	ug/L	0.50		1	10/28/12	10/29/12 06:40	1014
1,2-Dichlorobenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 06:40	1014
1,3-Dichlorobenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 06:40	1014
1,4-Dichlorobenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 06:40	1014
Dichlorodifluoromethane	ND	ug/L	0.50		1	10/28/12	10/29/12 06:40	1014
1,1-Dichloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 06:40	1014
1,2-Dichloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 06:40	1014
cis-1,2-Dichloroethene	ND	ug/L	0.50		1	10/28/12	10/29/12 06:40	1014
trans-1,2-Dichloroethene	ND	ug/L	0.50		1	10/28/12	10/29/12 06:40	1014
1,1-Dichloroethene	ND	ug/L	0.50		1	10/28/12	10/29/12 06:40	1014
1,2-Dichloropropane	ND	ug/L	0.50		1	10/28/12	10/29/12 06:40	1014
Ethylbenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 06:40	1014
Isopropylbenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 06:40	1014
Methyl-t-butyl ether	ND	ug/L	0.50		1	10/28/12	10/29/12 06:40	1014
Naphthalene	ND	ug/L	0.50		1	10/28/12	10/29/12 06:40	1014
Styrene	ND	ug/L	0.50		1	10/28/12	10/29/12 06:40	1014
Diisopropyl ether	ND	ug/L	5.0		1	10/28/12	10/29/12 06:40	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 06:40	1014
Tetrachloroethylene	ND	ug/L	0.50		1	10/28/12	10/29/12 06:40	1014

OFFICES:
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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12102504
Chesapeake GeoSciences, Inc., Columbia, MD
November 8, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 11712 Serene-First Draw **Date/Time Sampled: 10/24/2012 15:00** **PSS Sample ID: 12102504-001**
Matrix: WATER **Date/Time Received: 10/25/2012 10:55**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Toluene	ND	ug/L	0.50		1	10/28/12	10/29/12 06:40	1014
1,2,4-Trichlorobenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 06:40	1014
1,1,1-Trichloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 06:40	1014
1,1,2-Trichloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 06:40	1014
Trichloroethene	ND	ug/L	0.50		1	10/28/12	10/29/12 06:40	1014
Vinyl Chloride	ND	ug/L	0.50		1	10/28/12	10/29/12 06:40	1014
o-Xylene	ND	ug/L	0.50		1	10/28/12	10/29/12 06:40	1014
m,p-Xylenes	ND	ug/L	1.0		1	10/28/12	10/29/12 06:40	1014
tert-Butyl ethyl ether	ND	ug/L	5.0		1	10/28/12	10/29/12 06:40	1014
tert-Butyl alcohol	ND	ug/L	20		1	10/28/12	10/29/12 06:40	1014
tert-Amyl methyl ether	ND	ug/L	5.0		1	10/28/12	10/29/12 06:40	1014

OFFICES:
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BALTIMORE, MD 21228
410-747-8770
800-932-9047
FAX 410-788-8723

PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12102504
Chesapeake GeoSciences, Inc., Columbia, MD
November 8, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 11712 Serene-Flushed **Date/Time Sampled: 10/24/2012 15:40** **PSS Sample ID: 12102504-002**
Matrix: WATER **Date/Time Received: 10/25/2012 10:55**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Benzene	ND	ug/L	0.50		1	10/28/12	10/29/12 07:23	1014
Bromodichloromethane	ND	ug/L	0.50		1	10/28/12	10/29/12 07:23	1014
Bromoform	ND	ug/L	5.0		1	10/28/12	10/29/12 07:23	1014
Bromomethane	ND	ug/L	0.50		1	10/28/12	10/29/12 07:23	1014
Carbon Tetrachloride	ND	ug/L	0.50		1	10/28/12	10/29/12 07:23	1014
Chlorobenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 07:23	1014
Chloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 07:23	1014
Chloroform	ND	ug/L	0.50		1	10/28/12	10/29/12 07:23	1014
Chloromethane	ND	ug/L	0.50		1	10/28/12	10/29/12 07:23	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0		1	10/28/12	10/29/12 07:23	1014
Dibromochloromethane	ND	ug/L	0.50		1	10/28/12	10/29/12 07:23	1014
1,2-Dibromoethane	ND	ug/L	0.50		1	10/28/12	10/29/12 07:23	1014
1,2-Dichlorobenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 07:23	1014
1,3-Dichlorobenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 07:23	1014
1,4-Dichlorobenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 07:23	1014
Dichlorodifluoromethane	ND	ug/L	0.50		1	10/28/12	10/29/12 07:23	1014
1,1-Dichloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 07:23	1014
1,2-Dichloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 07:23	1014
cis-1,2-Dichloroethene	ND	ug/L	0.50		1	10/28/12	10/29/12 07:23	1014
trans-1,2-Dichloroethene	ND	ug/L	0.50		1	10/28/12	10/29/12 07:23	1014
1,1-Dichloroethene	ND	ug/L	0.50		1	10/28/12	10/29/12 07:23	1014
1,2-Dichloropropane	ND	ug/L	0.50		1	10/28/12	10/29/12 07:23	1014
Ethylbenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 07:23	1014
Isopropylbenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 07:23	1014
Methyl-t-butyl ether	ND	ug/L	0.50		1	10/28/12	10/29/12 07:23	1014
Naphthalene	ND	ug/L	0.50		1	10/28/12	10/29/12 07:23	1014
Styrene	ND	ug/L	0.50		1	10/28/12	10/29/12 07:23	1014
Diisopropyl ether	ND	ug/L	5.0		1	10/28/12	10/29/12 07:23	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 07:23	1014
Tetrachloroethylene	ND	ug/L	0.50		1	10/28/12	10/29/12 07:23	1014

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12102504
Chesapeake GeoSciences, Inc., Columbia, MD
November 8, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 11712 Serene-Flushed | **Date/Time Sampled: 10/24/2012 15:40** | **PSS Sample ID: 12102504-002**
Matrix: WATER | **Date/Time Received: 10/25/2012 10:55**

VOC In Drinking Water plus Oxygenates | Analytical Method: EPA 524.2 | Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Toluene	ND	ug/L	0.50		1	10/28/12	10/29/12 07:23	1014
1,2,4-Trichlorobenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 07:23	1014
1,1,1-Trichloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 07:23	1014
1,1,2-Trichloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 07:23	1014
Trichloroethene	ND	ug/L	0.50		1	10/28/12	10/29/12 07:23	1014
Vinyl Chloride	ND	ug/L	0.50		1	10/28/12	10/29/12 07:23	1014
o-Xylene	ND	ug/L	0.50		1	10/28/12	10/29/12 07:23	1014
m,p-Xylenes	ND	ug/L	1.0		1	10/28/12	10/29/12 07:23	1014
tert-Butyl ethyl ether	ND	ug/L	5.0		1	10/28/12	10/29/12 07:23	1014
tert-Butyl alcohol	ND	ug/L	20		1	10/28/12	10/29/12 07:23	1014
tert-Amyl methyl ether	ND	ug/L	5.0		1	10/28/12	10/29/12 07:23	1014

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12102504
Chesapeake GeoSciences, Inc., Columbia, MD
November 8, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3996 Farm-First Draw **Date/Time Sampled: 10/24/2012 16:15** **PSS Sample ID: 12102504-003**
Matrix: WATER **Date/Time Received: 10/25/2012 10:55**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Benzene	ND	ug/L	0.50		1	10/28/12	10/29/12 08:06	1014
Bromodichloromethane	ND	ug/L	0.50		1	10/28/12	10/29/12 08:06	1014
Bromoform	ND	ug/L	5.0		1	10/28/12	10/29/12 08:06	1014
Bromomethane	ND	ug/L	0.50		1	10/28/12	10/29/12 08:06	1014
Carbon Tetrachloride	ND	ug/L	0.50		1	10/28/12	10/29/12 08:06	1014
Chlorobenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 08:06	1014
Chloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 08:06	1014
Chloroform	ND	ug/L	0.50		1	10/28/12	10/29/12 08:06	1014
Chloromethane	ND	ug/L	0.50		1	10/28/12	10/29/12 08:06	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0		1	10/28/12	10/29/12 08:06	1014
Dibromochloromethane	ND	ug/L	0.50		1	10/28/12	10/29/12 08:06	1014
1,2-Dibromoethane	ND	ug/L	0.50		1	10/28/12	10/29/12 08:06	1014
1,2-Dichlorobenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 08:06	1014
1,3-Dichlorobenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 08:06	1014
1,4-Dichlorobenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 08:06	1014
Dichlorodifluoromethane	ND	ug/L	0.50		1	10/28/12	10/29/12 08:06	1014
1,1-Dichloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 08:06	1014
1,2-Dichloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 08:06	1014
cis-1,2-Dichloroethene	ND	ug/L	0.50		1	10/28/12	10/29/12 08:06	1014
trans-1,2-Dichloroethene	ND	ug/L	0.50		1	10/28/12	10/29/12 08:06	1014
1,1-Dichloroethene	ND	ug/L	0.50		1	10/28/12	10/29/12 08:06	1014
1,2-Dichloropropane	ND	ug/L	0.50		1	10/28/12	10/29/12 08:06	1014
Ethylbenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 08:06	1014
Isopropylbenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 08:06	1014
Methyl-t-butyl ether	ND	ug/L	0.50		1	10/28/12	10/29/12 08:06	1014
Naphthalene	ND	ug/L	0.50		1	10/28/12	10/29/12 08:06	1014
Styrene	ND	ug/L	0.50		1	10/28/12	10/29/12 08:06	1014
Diisopropyl ether	ND	ug/L	5.0		1	10/28/12	10/29/12 08:06	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 08:06	1014
Tetrachloroethylene	ND	ug/L	0.50		1	10/28/12	10/29/12 08:06	1014

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12102504
Chesapeake GeoSciences, Inc., Columbia, MD
November 8, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3996 Farm-First Draw **Date/Time Sampled: 10/24/2012 16:15** **PSS Sample ID: 12102504-003**
Matrix: WATER **Date/Time Received: 10/25/2012 10:55**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Toluene	ND	ug/L	0.50		1	10/28/12	10/29/12 08:06	1014
1,2,4-Trichlorobenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 08:06	1014
1,1,1-Trichloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 08:06	1014
1,1,2-Trichloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 08:06	1014
Trichloroethene	ND	ug/L	0.50		1	10/28/12	10/29/12 08:06	1014
Vinyl Chloride	ND	ug/L	0.50		1	10/28/12	10/29/12 08:06	1014
o-Xylene	ND	ug/L	0.50		1	10/28/12	10/29/12 08:06	1014
m,p-Xylenes	ND	ug/L	1.0		1	10/28/12	10/29/12 08:06	1014
tert-Butyl ethyl ether	ND	ug/L	5.0		1	10/28/12	10/29/12 08:06	1014
tert-Butyl alcohol	**29**	ug/L	20		1	10/28/12	10/29/12 08:06	1014
tert-Amyl methyl ether	ND	ug/L	5.0		1	10/28/12	10/29/12 08:06	1014

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12102504
Chesapeake GeoSciences, Inc., Columbia, MD
November 8, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3996 Farm-Flushed **Date/Time Sampled: 10/24/2012 16:40** **PSS Sample ID: 12102504-004**
Matrix: WATER **Date/Time Received: 10/25/2012 10:55**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Benzene	ND	ug/L	0.50		1	10/28/12	10/29/12 08:49	1014
Bromodichloromethane	ND	ug/L	0.50		1	10/28/12	10/29/12 08:49	1014
Bromoform	ND	ug/L	5.0		1	10/28/12	10/29/12 08:49	1014
Bromomethane	ND	ug/L	0.50		1	10/28/12	10/29/12 08:49	1014
Carbon Tetrachloride	ND	ug/L	0.50		1	10/28/12	10/29/12 08:49	1014
Chlorobenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 08:49	1014
Chloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 08:49	1014
Chloroform	ND	ug/L	0.50		1	10/28/12	10/29/12 08:49	1014
Chloromethane	ND	ug/L	0.50		1	10/28/12	10/29/12 08:49	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0		1	10/28/12	10/29/12 08:49	1014
Dibromochloromethane	ND	ug/L	0.50		1	10/28/12	10/29/12 08:49	1014
1,2-Dibromoethane	ND	ug/L	0.50		1	10/28/12	10/29/12 08:49	1014
1,2-Dichlorobenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 08:49	1014
1,3-Dichlorobenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 08:49	1014
1,4-Dichlorobenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 08:49	1014
Dichlorodifluoromethane	ND	ug/L	0.50		1	10/28/12	10/29/12 08:49	1014
1,1-Dichloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 08:49	1014
1,2-Dichloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 08:49	1014
cis-1,2-Dichloroethene	ND	ug/L	0.50		1	10/28/12	10/29/12 08:49	1014
trans-1,2-Dichloroethene	ND	ug/L	0.50		1	10/28/12	10/29/12 08:49	1014
1,1-Dichloroethene	ND	ug/L	0.50		1	10/28/12	10/29/12 08:49	1014
1,2-Dichloropropane	ND	ug/L	0.50		1	10/28/12	10/29/12 08:49	1014
Ethylbenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 08:49	1014
Isopropylbenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 08:49	1014
Methyl-t-butyl ether	**79**	ug/L	5.0		10	10/28/12	11/01/12 22:54	1014
Naphthalene	ND	ug/L	0.50		1	10/28/12	10/29/12 08:49	1014
Styrene	ND	ug/L	0.50		1	10/28/12	10/29/12 08:49	1014
Diisopropyl ether	ND	ug/L	5.0		1	10/28/12	10/29/12 08:49	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 08:49	1014
Tetrachloroethylene	ND	ug/L	0.50		1	10/28/12	10/29/12 08:49	1014

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12102504
Chesapeake GeoSciences, Inc., Columbia, MD
November 8, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 3996 Farm-Flushed **Date/Time Sampled: 10/24/2012 16:40** **PSS Sample ID: 12102504-004**
Matrix: WATER **Date/Time Received: 10/25/2012 10:55**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Toluene	ND	ug/L	0.50		1	10/28/12	10/29/12 08:49	1014
1,2,4-Trichlorobenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 08:49	1014
1,1,1-Trichloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 08:49	1014
1,1,2-Trichloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 08:49	1014
Trichloroethene	ND	ug/L	0.50		1	10/28/12	10/29/12 08:49	1014
Vinyl Chloride	ND	ug/L	0.50		1	10/28/12	10/29/12 08:49	1014
o-Xylene	ND	ug/L	0.50		1	10/28/12	10/29/12 08:49	1014
m,p-Xylenes	ND	ug/L	1.0		1	10/28/12	10/29/12 08:49	1014
tert-Butyl ethyl ether	ND	ug/L	5.0		1	10/28/12	10/29/12 08:49	1014
tert-Butyl alcohol	**22**	ug/L	20		1	10/28/12	10/29/12 08:49	1014
tert-Amyl methyl ether	ND	ug/L	5.0		1	10/28/12	10/29/12 08:49	1014

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12102504
Chesapeake GeoSciences, Inc., Columbia, MD
November 8, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 11712 Serene-Flushed DB **Date/Time Sampled: 10/24/2012 00:00** **PSS Sample ID: 12102504-005**
Matrix: WATER **Date/Time Received: 10/25/2012 10:55**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Benzene	ND	ug/L	0.50		1	10/28/12	10/29/12 09:32	1014
Bromodichloromethane	ND	ug/L	0.50		1	10/28/12	10/29/12 09:32	1014
Bromoform	ND	ug/L	5.0		1	10/28/12	10/29/12 09:32	1014
Bromomethane	ND	ug/L	0.50		1	10/28/12	10/29/12 09:32	1014
Carbon Tetrachloride	ND	ug/L	0.50		1	10/28/12	10/29/12 09:32	1014
Chlorobenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 09:32	1014
Chloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 09:32	1014
Chloroform	ND	ug/L	0.50		1	10/28/12	10/29/12 09:32	1014
Chloromethane	ND	ug/L	0.50		1	10/28/12	10/29/12 09:32	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0		1	10/28/12	10/29/12 09:32	1014
Dibromochloromethane	ND	ug/L	0.50		1	10/28/12	10/29/12 09:32	1014
1,2-Dibromoethane	ND	ug/L	0.50		1	10/28/12	10/29/12 09:32	1014
1,2-Dichlorobenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 09:32	1014
1,3-Dichlorobenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 09:32	1014
1,4-Dichlorobenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 09:32	1014
Dichlorodifluoromethane	ND	ug/L	0.50		1	10/28/12	10/29/12 09:32	1014
1,1-Dichloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 09:32	1014
1,2-Dichloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 09:32	1014
cis-1,2-Dichloroethene	ND	ug/L	0.50		1	10/28/12	10/29/12 09:32	1014
trans-1,2-Dichloroethene	ND	ug/L	0.50		1	10/28/12	10/29/12 09:32	1014
1,1-Dichloroethene	ND	ug/L	0.50		1	10/28/12	10/29/12 09:32	1014
1,2-Dichloropropane	ND	ug/L	0.50		1	10/28/12	10/29/12 09:32	1014
Ethylbenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 09:32	1014
Isopropylbenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 09:32	1014
Methyl-t-butyl ether	ND	ug/L	0.50		1	10/28/12	10/29/12 09:32	1014
Naphthalene	ND	ug/L	0.50		1	10/28/12	10/29/12 09:32	1014
Styrene	ND	ug/L	0.50		1	10/28/12	10/29/12 09:32	1014
Diisopropyl ether	ND	ug/L	5.0		1	10/28/12	10/29/12 09:32	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 09:32	1014
Tetrachloroethylene	ND	ug/L	0.50		1	10/28/12	10/29/12 09:32	1014

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12102504
Chesapeake GeoSciences, Inc., Columbia, MD
November 8, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: 11712 Serene-Flushed DB **Date/Time Sampled: 10/24/2012 00:00** **PSS Sample ID: 12102504-005**
Matrix: WATER **Date/Time Received: 10/25/2012 10:55**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Toluene	ND	ug/L	0.50		1	10/28/12	10/29/12 09:32	1014
1,2,4-Trichlorobenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 09:32	1014
1,1,1-Trichloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 09:32	1014
1,1,2-Trichloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 09:32	1014
Trichloroethene	ND	ug/L	0.50		1	10/28/12	10/29/12 09:32	1014
Vinyl Chloride	ND	ug/L	0.50		1	10/28/12	10/29/12 09:32	1014
o-Xylene	ND	ug/L	0.50		1	10/28/12	10/29/12 09:32	1014
m,p-Xylenes	ND	ug/L	1.0		1	10/28/12	10/29/12 09:32	1014
tert-Butyl ethyl ether	ND	ug/L	5.0		1	10/28/12	10/29/12 09:32	1014
tert-Butyl alcohol	ND	ug/L	20		1	10/28/12	10/29/12 09:32	1014
tert-Amyl methyl ether	ND	ug/L	5.0		1	10/28/12	10/29/12 09:32	1014

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PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12102504
Chesapeake GeoSciences, Inc., Columbia, MD
November 8, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: T-7 **Date/Time Sampled: 10/24/2012 13:45** **PSS Sample ID: 12102504-006**
Matrix: WATER **Date/Time Received: 10/25/2012 10:55**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Benzene	ND	ug/L	0.50		1	10/28/12	10/29/12 10:16	1014
Bromodichloromethane	ND	ug/L	0.50		1	10/28/12	10/29/12 10:16	1014
Bromoform	ND	ug/L	5.0		1	10/28/12	10/29/12 10:16	1014
Bromomethane	ND	ug/L	0.50		1	10/28/12	10/29/12 10:16	1014
Carbon Tetrachloride	ND	ug/L	0.50		1	10/28/12	10/29/12 10:16	1014
Chlorobenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 10:16	1014
Chloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 10:16	1014
Chloroform	ND	ug/L	0.50		1	10/28/12	10/29/12 10:16	1014
Chloromethane	ND	ug/L	0.50		1	10/28/12	10/29/12 10:16	1014
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0		1	10/28/12	10/29/12 10:16	1014
Dibromochloromethane	ND	ug/L	0.50		1	10/28/12	10/29/12 10:16	1014
1,2-Dibromoethane	ND	ug/L	0.50		1	10/28/12	10/29/12 10:16	1014
1,2-Dichlorobenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 10:16	1014
1,3-Dichlorobenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 10:16	1014
1,4-Dichlorobenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 10:16	1014
Dichlorodifluoromethane	ND	ug/L	0.50		1	10/28/12	10/29/12 10:16	1014
1,1-Dichloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 10:16	1014
1,2-Dichloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 10:16	1014
cis-1,2-Dichloroethene	ND	ug/L	0.50		1	10/28/12	10/29/12 10:16	1014
trans-1,2-Dichloroethene	ND	ug/L	0.50		1	10/28/12	10/29/12 10:16	1014
1,1-Dichloroethene	ND	ug/L	0.50		1	10/28/12	10/29/12 10:16	1014
1,2-Dichloropropane	ND	ug/L	0.50		1	10/28/12	10/29/12 10:16	1014
Ethylbenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 10:16	1014
Isopropylbenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 10:16	1014
Methyl-t-butyl ether	ND	ug/L	0.50		1	10/28/12	10/29/12 10:16	1014
Naphthalene	ND	ug/L	0.50		1	10/28/12	10/29/12 10:16	1014
Styrene	ND	ug/L	0.50		1	10/28/12	10/29/12 10:16	1014
Diisopropyl ether	ND	ug/L	5.0		1	10/28/12	10/29/12 10:16	1014
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 10:16	1014
Tetrachloroethylene	ND	ug/L	0.50		1	10/28/12	10/29/12 10:16	1014

OFFICES:
6630 BALTIMORE NATIONAL PIKE
ROUTE 40 WEST
BALTIMORE, MD 21228
410-747-8770
800-932-9047
FAX 410-788-8723

PHASE SEPARATION SCIENCE, INC.

CERTIFICATE OF ANALYSIS

No: 12102504
Chesapeake GeoSciences, Inc., Columbia, MD
November 8, 2012

Project Name: Monrovia BP/Former Green Valley Citgo

Project ID: CG-12-0788.03

Sample ID: T-7 **Date/Time Sampled: 10/24/2012 13:45** **PSS Sample ID: 12102504-006**
Matrix: WATER **Date/Time Received: 10/25/2012 10:55**

VOC In Drinking Water plus Oxygenates Analytical Method: EPA 524.2 Preparation Method: 524.2

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Toluene	ND	ug/L	0.50		1	10/28/12	10/29/12 10:16	1014
1,2,4-Trichlorobenzene	ND	ug/L	0.50		1	10/28/12	10/29/12 10:16	1014
1,1,1-Trichloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 10:16	1014
1,1,2-Trichloroethane	ND	ug/L	0.50		1	10/28/12	10/29/12 10:16	1014
Trichloroethene	ND	ug/L	0.50		1	10/28/12	10/29/12 10:16	1014
Vinyl Chloride	ND	ug/L	0.50		1	10/28/12	10/29/12 10:16	1014
o-Xylene	ND	ug/L	0.50		1	10/28/12	10/29/12 10:16	1014
m,p-Xylenes	ND	ug/L	1.0		1	10/28/12	10/29/12 10:16	1014
tert-Butyl ethyl ether	ND	ug/L	5.0		1	10/28/12	10/29/12 10:16	1014
tert-Butyl alcohol	ND	ug/L	20		1	10/28/12	10/29/12 10:16	1014
tert-Amyl methyl ether	ND	ug/L	5.0		1	10/28/12	10/29/12 10:16	1014

CHAIN-OF-CUSTODY RECORD

12102504

Phase Separation Science, Inc.
6630 Baltimore National Pike, Suite 104-A
Baltimore, MD 21228
(410) 747-8770

Company Name: Chesapeake GeoSciences, Inc.

Project Manager: Sean Daniel

Project Name: Monrovia BP /Former Green Valley Citgo (FGVC) **(2005-0834FR)**

Project ID: CG-12-0788.03

Sampler(s): Matt Emery

P.O. Number: CG12078803SD

Field Sample ID	Date	Time	Water	Soil	Other	No. of Containers	VOCs via EPA 524.2	Preservative/Remarks	PSS Lab ID
11712 Serene - First Draw	10/24/12	15:00	X			2	X	4°C + 1:1 HCl	
11712 Serene - Flushed		15:40	X			2	X	4°C + 1:1 HCl	
3996 Farm - First Draw		16:15	X			2	X	4°C + 1:1 HCl	
3996 Farm - Flushed		16:40	X			2	X	4°C + 1:1 HCl	
11712 Serene - Flushed DB		—	X			2	X	4°C + 1:1 HCl	
T-7	10/24/12	13:45	X			2	X	4°C + 1:1 HCl	
								LabWater.com DI water used for T-7	

# of Coolers: 1
Custody Seal: ABS
Ice Present: PRES Temp: 4°C
Shipping Carrier: CLIENT

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
(Printed) Matt Emery	10/25/12 10:55	(Printed) R. DAVIS	(Printed)		(Printed)

Relinquished by: (Signature)	Date/Time	Received by Laboratory: (Signature)	Date/Time
(Printed)		(Printed)	

Remarks: MDE-OCP Level I Deliverables/Rates **RMS 2008 Rates**
Please include BTEX, Naphthalene, MTBE, TAME, TBA, ETBE, DIPE, 1,2-DCA, and 1,2-Dibromoethane in EPA 524.2 & 8260 Analyses.
E-mail results to sdaniel@cgs.us.com

Phase Separation Science, Inc

Sample Receipt Checklist

Work Order #	12102504	**Received By**	Rachel Davis
Client Name	Chesapeake GeoSciences, Inc.	**Date Received**	10/25/2012 10:55:00 AM
Project Name	Monrovia BP/Former Green Valley C	**Delivered By**	Client
Project Number	CG-12-0788.03	**Tracking No**	Not Applicable
Disposal Date	11/29/2012	**Logged In By**	Rachel Davis

Shipping Container(s)

No. of Coolers 1		Ice	Present
		Temp (deg C)	4
Custody Seal(s) Intact?	N/A	Temp Blank Present	No
Seal(s) Signed / Dated?	N/A		

Documentation

		Sampler Name	Matt Emery
		MD DW Cert. No.	N/A
COC agrees with sample labels?	Yes		
Chain of Custody	Yes		

Sample Container

		Custody Seal(s) Intact?	Not Applicable
Appropriate for Specified Analysis?	Yes	Seal(s) Signed / Dated	Not Applicable
Intact?	Yes		
Labeled and Labels Legible?	Yes		

Total No. of Samples Received 6

Total No. of Containers Received 12

Preservation

Metals	(pH<2)	N/A
Cyanides	(pH>12)	N/A
Sulfide	(pH>9)	N/A
TOC, COD, Phenols	(ph<2)	N/A
TOX, TKN, NH3, Total Phos	(pH<2)	N/A
VOC, BTEX (VOA Vials Rcvd Preserved)	(pH<2)	Yes
Do VOA vials have zero headspace?		Yes

Comments: (Any "No" response must be detailed in the comments section below.)

For any improper preservation conditions, list sample ID, preservative added (reagent ID number) below as well as documentation of any client notification as well as client instructions. Samples for pH, chlorine and dissolved oxygen should be analyzed as soon as possible, preferably in the field at the time of sampling. Samples which require thermal preservation shall be considered acceptable when received at a temperature above freezing to 6°C. Samples that are hand delivered on the day that they are collected may not meet these criteria but shall be considered acceptable if there is evidence that the chilling process has begun such as arrival on ice.

Samples Inspected/Checklist Completed By: Rachel Davis
Rachel Davis
Date: 10/25/2012

PM Review and Approval: Amy Friedlander
Amy Friedlander
Date: 10/25/2012

JENKINS

ENVIRONMENTAL, INC.

September 20, 2012

Priscilla N. Carroll
Assistant Attorney General
Office of The Attorney General
Department of the Environment
1800 Washington Blvd, Suite 6048
Baltimore, Maryland 21230

RE: Green Valley Citgo

Dear Ms. Carroll:

This letter and attachments are in response to your letter dated August 29, 2012.

(1) Metals and VOC test results from 3995 Farm Lane, 3997 Farm lane, 11812 Pine Tree and 11789 Thomas Spring are attached.

(2) Sampling Points:

3995 Farm Lane: Metals and VOC influent samples were collected at the pressure tank prior to water softener/neutralizer treatment system. No GAC system present.

3997 Farm Lane: Metals and VOC influent sample were collected at the pressure tank prior to GAC system and softener/neutralizer treatment. A VOC effluent sample was collected at the Post-Tank 3 GAC sampling port.

11812 Pine Tree: Metals and VOC influent samples were collected at a hose bib with directly connected to the pressure tank cold water supply line. The pressure tank valve was inaccessible. No water treatment systems were present at this location.

11789 Thomas Spring: Metals and VOC influent samples were collected at hose bib with direct connection to the pressure tank by passing water softener. No other water treatment systems were present at this location.

(3) Influent samples collected and submitted for metals analysis (EPA 200.8/EPA 218.7) were obtained from pressure/storage tanks or other outlets prior to entering water

treatment equipment. Sampling was conducted in response to concerns regarding possible Cr/CrVI and metals contamination. Samples were not collected with the initial intention of testing for lead. The procedure used to identify individual locations requiring remediation is described in the attached EPA document: *Excerpt from 58 FR 26479.* Metals and Chromate samples were collected in 250 ml and 100 ml containers, respectively, with laboratory added preservatives [HNO_3 and NH_4OH $(NH_4)2SO_4$]. Samples were transported to the laboratories iced in coolers.

The presence and type of water treatment systems varies widely between properties. Some homes are equipped with GAC, softener, neutralizer and sediment filtration/treatment systems, while others have no water treatment between the well and point-of-use. The operational efficiency and appropriateness of the various water treatment systems observed, if and where present, remains to be determined.

(4) In addition to the information requested attached for your review is a summary of all positive Metals/VOCs provided by Caliber Analytical Services, Enviro-Chem Laboratories, Inc. CrVI reports (received to date), and sample results mapping prepared by S.S. Papadopulos & Associates, Inc.

If you have any questions or require additional information please contact me at 410-935-7113.

Sincerely,

JENKINS ENVIRONMENTAL, INC.

Michael J. Cirri

Michael J. Cirri
President/CFO

Cc: Theodore M. Flerlage, Jr. Esq.
Demetrios A. Karas, Esq.

CALIBER ANALYTICAL SERVICES

Certificate of Analysis

Jenkins Environmental, Inc.
8600 LaSalle Road
York Building, Suite 509
Towson, MD 21286

Sample Details:
Jamitis
3995 Farm Lane
Monrovia, MD

Project:	Green Valley Citgo
Site Location:	Monrovia, MD
Project Number:	2012-022

Date Sampled:	08/06/12 10:13
Date Received:	08/06/12 12:33
Date Issued:	08/13/12
SDG Number:	12080602

Field Sample ID: 12-022-3995-3 (2) **Matrix:** Drinking Water **Lab ID:** 12080602-01

	Result	Unit	LLQ	Method	Prepared	Analyzed	Init.
Volatile Organic Compounds							
Benzene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 16:35	JKL
Bromobenzene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 16:35	JKL
Bromochloromethane	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 16:35	JKL
Bromodichloromethane	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 16:35	JKL
Bromoform	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 16:35	JKL
Bromomethane	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 16:35	JKL
n-Butylbenzene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 16:35	JKL
sec-Butylbenzene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 16:35	JKL
tert-Butylbenzene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 16:35	JKL
Carbon tetrachloride	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 16:35	JKL
Chlorobenzene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 16:35	JKL
Chloroethane	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 16:35	JKL
Chloroform	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 16:35	JKL
Chloromethane	ND	ug/L	2	EPA 524.2	08/10/12	08/10/12 16:35	JKL
2-Chlorotoluene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 16:35	JKL
4-Chlorotoluene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 16:35	JKL
Dibromochloromethane	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 16:35	JKL
1,2-Dibromo-3-chloropropane	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 16:35	JKL
1,2-Dibromoethane	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 16:35	JKL
Dibromomethane	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 16:35	JKL
1,2-Dichlorobenzene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 16:35	JKL
1,3-Dichlorobenzene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 16:35	JKL
1,4-Dichlorobenzene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 16:35	JKL
Dichlorodifluoromethane	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 16:35	JKL
1,1-Dichloroethane	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 16:35	JKL
1,2-Dichloroethane	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 16:35	JKL
1,1-Dichloroethene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 16:35	JKL
cis-1,2-Dichloroethene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 16:35	JKL
trans-1,2-Dichloroethene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 16:35	JKL
1,2-Dichloropropane	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 16:35	JKL
1,3-Dichloropropane	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 16:35	JKL
2,2-Dichloropropane	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 16:35	JKL
1,1-Dichloropropene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 16:35	JKL
cis-1,3-Dichloropropene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 16:35	JKL
trans-1,3-Dichloropropene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 16:35	JKL
Ethylbenzene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 16:35	JKL
Isopropylbenzene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 16:35	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

Jenkins Environmental, Inc.
8600 LaSalle Road
York Building, Suite 509
Towson, MD 21286

Sample Details:
Jamitis
3995 Farm Lane
Monrovia, MD

Project:	Green Valley Citgo
Site Location:	Monrovia, MD
Project Number:	2012-022

Date Sampled:	08/06/12 10:13
Date Received:	08/06/12 12:33
Date Issued:	08/13/12
SDG Number:	**12080602**

Field Sample ID: 12-022-3995-3 (2) **Matrix:** Drinking Water **Lab ID:** 12080602-01

	Result	Unit	LLQ	Method	Prepared	Analyzed	Init.
Volatile Organic Compounds							
p-Isopropyltoluene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 16:35	JKL
Methylene chloride	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 16:35	JKL
Methyl t-butyl ether (MTBE)	ND	ug/L	0.2	EPA 524.2	08/10/12	08/10/12 16:35	JKL
Naphthalene	ND	ug/L	1	EPA 524.2	08/10/12	08/10/12 16:35	JKL
n-Propylbenzene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 16:35	JKL
Styrene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 16:35	JKL
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 16:35	JKL
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 16:35	JKL
Tetrachloroethene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 16:35	JKL
Toluene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 16:35	JKL
1,2,3-Trichlorobenzene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 16:35	JKL
1,2,4-Trichlorobenzene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 16:35	JKL
1,1,1-Trichloroethane	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 16:35	JKL
1,1,2-Trichloroethane	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 16:35	JKL
Trichloroethene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 16:35	JKL
Trichlorofluoromethane	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 16:35	JKL
1,2,3-Trichloropropane	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 16:35	JKL
1,2,4-Trimethylbenzene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 16:35	JKL
1,3,5-Trimethylbenzene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 16:35	JKL
Vinyl chloride	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 16:35	JKL
m&p-Xylene	ND	ug/L	1	EPA 524.2	08/10/12	08/10/12 16:35	JKL
o-Xylene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 16:35	JKL
tert-Butanol (TBA)	ND	ug/L	5	EPA 524.2	08/10/12	08/10/12 16:35	JKL
Ethyl t-butyl ether (ETBE)	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 16:35	JKL
Diisopropyl ether (DIPE)	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 16:35	JKL
tert-Amyl methyl ether (TAME)	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 16:35	JKL
tert-Amyl alcohol (TAA)	ND	ug/L	5	EPA 524.2	08/10/12	08/10/12 16:35	JKL
tert-Amyl ethyl ether (TAEE)	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 16:35	JKL

Sampler Name: Michael Cirri Sampler ID: 3873MC Certification No: 1309-00-163 Expiration: 9/9/2013

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

Certificate of Analysis

Jenkins Environmental, Inc.
8600 LaSalle Road
York Building, Suite 509
Towson, MD 21286

Sample Details:
Jamitis
3995 Farm Lane
Monrovia, MD

Project:	Green Valley Citgo
Site Location:	Monrovia, MD
Project Number:	2012-022

Date Sampled:	08/06/12 10:11
Date Received:	08/06/12 12:33
Date Issued:	08/13/12
SDG Number:	**12080602**

Field Sample ID: 12-022-3995-2 (2) **Matrix:** Drinking Water **Lab ID:** 12080602-02

	Result	Unit	LLQ	Method	Prepared	Analyzed	Init.
Total Metals							
Arsenic	ND	ug/L	1	EPA 200.8	08/10/12	08/10/12 12:40	MEL
Barium	**69**	ug/L	5	EPA 200.8	08/10/12	08/10/12 12:40	MEL
Cadmium	ND	ug/L	1	EPA 200.8	08/10/12	08/10/12 12:40	MEL
Chromium	ND	ug/L	1	EPA 200.8	08/10/12	08/10/12 12:40	MEL
Iron	ND	ug/L	50	EPA 200.8	08/10/12	08/10/12 12:40	MEL
Lead	**22**	ug/L	1	EPA 200.8	08/10/12	08/10/12 12:40	MEL
Mercury	ND	ug/L	0.2	EPA 200.8	08/10/12	08/10/12 12:40	MEL
Selenium	ND	ug/L	1	EPA 200.8	08/10/12	08/10/12 12:40	MEL
Silver	ND	ug/L	1	EPA 200.8	08/10/12	08/10/12 12:40	MEL

Sampler Name: Michael Cirri   Sampler ID: 3873MC   Certification No: 1309-00-163   Expiration: 9/9/2013

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

Certificate of Analysis

Jenkins Environmental, Inc.
8600 LaSalle Road
York Building, Suite 509
Towson, MD 21286

Sample Details:
Szeliga
3997 Farm Lane
Monrovia, MD

Project: Green Valley Citgo
Site Location: Monrovia, MD
Project Number: 2012-022

Date Sampled: 08/06/12 11:10
Date Received: 08/06/12 12:33
Date Issued: 08/13/12
SDG Number: 12080602

Field Sample ID: 12-022-3997-3 (2) **Matrix:** Drinking Water **Lab ID:** 12080602-03

	Result	Unit	LLQ	Method	Prepared	Analyzed	Init.
Volatile Organic Compounds							
Benzene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:01	JKL
Bromobenzene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:01	JKL
Bromochloromethane	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:01	JKL
Bromodichloromethane	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:01	JKL
Bromoform	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:01	JKL
Bromomethane	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:01	JKL
n-Butylbenzene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:01	JKL
sec-Butylbenzene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:01	JKL
tert-Butylbenzene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:01	JKL
Carbon tetrachloride	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:01	JKL
Chlorobenzene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:01	JKL
Chloroethane	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:01	JKL
Chloroform	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:01	JKL
Chloromethane	ND	ug/L	1	EPA 524.2	08/10/12	08/10/12 17:01	JKL
2-Chlorotoluene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:01	JKL
4-Chlorotoluene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:01	JKL
Dibromochloromethane	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:01	JKL
1,2-Dibromo-3-chloropropane	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:01	JKL
1,2-Dibromoethane	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:01	JKL
Dibromomethane	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:01	JKL
1,2-Dichlorobenzene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:01	JKL
1,3-Dichlorobenzene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:01	JKL
1,4-Dichlorobenzene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:01	JKL
Dichlorodifluoromethane	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:01	JKL
1,1-Dichloroethane	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:01	JKL
1,2-Dichloroethane	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:01	JKL
1,1-Dichloroethene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:01	JKL
cis-1,2-Dichloroethene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:01	JKL
trans-1,2-Dichloroethene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:01	JKL
1,2-Dichloropropane	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:01	JKL
1,3-Dichloropropane	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:01	JKL
2,2-Dichloropropane	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:01	JKL
1,1-Dichloropropene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:01	JKL
cis-1,3-Dichloropropene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:01	JKL
trans-1,3-Dichloropropene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:01	JKL
Ethylbenzene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:01	JKL
Isopropylbenzene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:01	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

Jenkins Environmental, Inc.
8600 LaSalle Road
York Building, Suite 509
Towson, MD 21286

Sample Details:
Szeliga
3997 Farm Lane
Monrovia, MD

Project:	Green Valley Citgo
Site Location:	Monrovia, MD
Project Number:	2012-022

Date Sampled:	08/06/12 11:10
Date Received:	08/06/12 12:33
Date Issued:	08/13/12
SDG Number:	**12080602**

Field Sample ID: **12-022-3997-3 (2)** **Matrix:** **Drinking Water** **Lab ID:** **12080602-03**

	Result	Unit	LLQ	Method	Prepared	Analyzed	Init.
Volatile Organic Compounds							
p-Isopropyltoluene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:01	JKL
Methylene chloride	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:01	JKL
Methyl t-butyl ether (MTBE)	0.4	ug/L	0.2	EPA 524.2	08/10/12	08/10/12 17:01	JKL
Naphthalene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:01	JKL
n-Propylbenzene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:01	JKL
Styrene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:01	JKL
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:01	JKL
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:01	JKL
Tetrachloroethene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:01	JKL
Toluene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:01	JKL
1,2,3-Trichlorobenzene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:01	JKL
1,2,4-Trichlorobenzene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:01	JKL
1,1,1-Trichloroethane	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:01	JKL
1,1,2-Trichloroethane	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:01	JKL
Trichloroethene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:01	JKL
Trichlorofluoromethane	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:01	JKL
1,2,3-Trichloropropane	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:01	JKL
1,2,4-Trimethylbenzene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:01	JKL
1,3,5-Trimethylbenzene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:01	JKL
Vinyl chloride	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:01	JKL
m&p-Xylene	ND	ug/L	1	EPA 524.2	08/10/12	08/10/12 17:01	JKL
o-Xylene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:01	JKL
tert-Butanol (TBA)	ND	ug/L	5	EPA 524.2	08/10/12	08/10/12 17:01	JKL
Ethyl t-butyl ether (ETBE)	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:01	JKL
Diisopropyl ether (DIPE)	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:01	JKL
tert-Amyl methyl ether (TAME)	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:01	JKL
tert-Amyl alcohol (TAA)	ND	ug/L	5	EPA 524.2	08/10/12	08/10/12 17:01	JKL
tert-Amyl ethyl ether (TAEE)	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:01	JKL

Sampler Name: Michael Cirri **Sampler ID:** 3873MC **Certification No:** 1309-00-163 **Expiration:** 9/9/2013

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

Approved by: Matt Coker
QC Chemist

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Certificate of Analysis

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York Building, Suite 509
Towson, MD 21286

Sample Details:
Szeliga
3997 Farm Lane
Monrovia, MD

Project:	Green Valley Citgo	Date Sampled:	08/06/12 11:12
Site Location:	Monrovia, MD	Date Received:	08/06/12 12:33
Project Number:	2012-022	Date Issued:	08/13/12
		SDG Number:	**12080602**

Field Sample ID: 12-022-3997-4 (2) **Matrix:** Drinking Water **Lab ID:** 12080602-04

	Result	Unit	LLQ	Method	Prepared	Analyzed	Init.
Volatile Organic Compounds							
Benzene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:25	JKL
Bromobenzene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:25	JKL
Bromochloromethane	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:25	JKL
Bromodichloromethane	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:25	JKL
Bromoform	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:25	JKL
Bromomethane	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:25	JKL
n-Butylbenzene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:25	JKL
sec-Butylbenzene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:25	JKL
tert-Butylbenzene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:25	JKL
Carbon tetrachloride	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:25	JKL
Chlorobenzene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:25	JKL
Chloroethane	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:25	JKL
Chloroform	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:25	JKL
Chloromethane	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:25	JKL
2-Chlorotoluene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:25	JKL
4-Chlorotoluene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:25	JKL
Dibromochloromethane	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:25	JKL
1,2-Dibromo-3-chloropropane	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:25	JKL
1,2-Dibromoethane	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:25	JKL
Dibromomethane	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:25	JKL
1,2-Dichlorobenzene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:25	JKL
1,3-Dichlorobenzene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:25	JKL
1,4-Dichlorobenzene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:25	JKL
Dichlorodifluoromethane	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:25	JKL
1,1-Dichloroethane	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:25	JKL
1,2-Dichloroethane	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:25	JKL
1,1-Dichloroethene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:25	JKL
cis-1,2-Dichloroethene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:25	JKL
trans-1,2-Dichloroethene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:25	JKL
1,2-Dichloropropane	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:25	JKL
1,3-Dichloropropane	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:25	JKL
2,2-Dichloropropane	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:25	JKL
1,1-Dichloropropene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:25	JKL
cis-1,3-Dichloropropene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:25	JKL
trans-1,3-Dichloropropene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:25	JKL
Ethylbenzene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:25	JKL
Isopropylbenzene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:25	JKL

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Certificate of Analysis

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Towson, MD 21286

Sample Details:
Szeliga
3997 Farm Lane
Monrovia, MD

Project: Green Valley Citgo
Site Location: Monrovia, MD
Project Number: 2012-022

Date Sampled: 08/06/12 11:12
Date Received: 08/06/12 12:33
Date Issued: 08/13/12
SDG Number: 12080602

Field Sample ID: 12-022-3997-4 (2) **Matrix: Drinking Water** **Lab ID: 12080602-04**

	Result	Unit	LLQ	Method	Prepared	Analyzed	Init.
Volatile Organic Compounds							
p-Isopropyltoluene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:25	JKL
Methylene chloride		ug/L		EPA 524.2	08/10/12	08/10/12 17:25	JKL
Methyl t-butyl ether (MTBE)	ND	ug/L	0.2	EPA 524.2	08/10/12	08/10/12 17:25	JKL
Naphthalene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:25	JKL
n-Propylbenzene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:25	JKL
Styrene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:25	JKL
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:25	JKL
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:25	JKL
Tetrachloroethene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:25	JKL
Toluene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:25	JKL
1,2,3-Trichlorobenzene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:25	JKL
1,2,4-Trichlorobenzene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:25	JKL
1,1,1-Trichloroethane	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:25	JKL
1,1,2-Trichloroethane	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:25	JKL
Trichloroethene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:25	JKL
Trichlorofluoromethane	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:25	JKL
1,2,3-Trichloropropane	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:25	JKL
1,2,4-Trimethylbenzene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:25	JKL
1,3,5-Trimethylbenzene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:25	JKL
Vinyl chloride	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:25	JKL
m&p-Xylene	ND	ug/L	1	EPA 524.2	08/10/12	08/10/12 17:25	JKL
o-Xylene	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:25	JKL
tert-Butanol (TBA)	ND	ug/L	5	EPA 524.2	08/10/12	08/10/12 17:25	JKL
Ethyl t-butyl ether (ETBE)	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:25	JKL
Diisopropyl ether (DIPE)	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:25	JKL
tert-Amyl methyl ether (TAME)	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:25	JKL
tert-Amyl alcohol (TAA)	ND	ug/L	5	EPA 524.2	08/10/12	08/10/12 17:25	JKL
tert-Amyl ethyl ether (TAEE)	ND	ug/L	0.5	EPA 524.2	08/10/12	08/10/12 17:25	JKL

Sampler Name: Michael Cirri   Sampler ID: 3873MC   Certification No: 1309-00-163   Expiration: 9/9/2013

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
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CALIBER ANALYTICAL SERVICES

Certificate of Analysis

Jenkins Environmental, Inc.
8600 LaSalle Road
York Building, Suite 509
Towson, MD 21286

Sample Details:
Szeliga
3997 Farm Lane
Monrovia, MD

Project: Green Valley Citgo
Site Location: Monrovia, MD
Project Number: 2012-022

Date Sampled: 08/06/12 11:07
Date Received: 08/06/12 12:33
Date Issued: 08/13/12
SDG Number: 12080602

Field Sample ID: 12-022-3997-2 (2) **Matrix: Drinking Water** **Lab ID: 12080602-06**

	Result	Unit	LLQ	Method	Prepared	Analyzed	Init.
Total Metals							
Arsenic	ND	ug/L	1	EPA 200.8	08/10/12	08/10/12 13:05	MEL
Barium	**64**	ug/L	5	EPA 200.8	08/10/12	08/10/12 13:05	MEL
Cadmium	ND	ug/L	1	EPA 200.8	08/10/12	08/10/12 13:05	MEL
Chromium	**2.0**	ug/L	1	EPA 200.8	08/10/12	08/10/12 13:05	MEL
Iron	**100**	ug/L	50	EPA 200.8	08/10/12	08/10/12 13:05	MEL
Lead	**270**	ug/L	1	EPA 200.8	08/10/12	08/10/12 13:05	MEL
Mercury	ND	ug/L	0.2	EPA 200.8	08/10/12	08/10/12 13:05	MEL
Selenium	ND	ug/L	1	EPA 200.8	08/10/12	08/10/12 13:05	MEL
Silver	ND	ug/L	1	EPA 200.8	08/10/12	08/10/12 13:05	MEL

Sampler Name: Michael Cirri Sampler ID: 3873MC Certification No: 1309-00-163 Expiration: 9/9/2013

Approved by: Matt Coker
QC Chemist

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

8851 Orchard Tree Lane Towson, Maryland 21286
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Page 1 of 1

CALIBER ANALYTICAL SERVICES

8851 Orchard Tree Lane Towson, MD 21286
Phone: 410.825.1151
Fax: 410.825.2126
www.caslabs.net

Chain of Custody Record

Customer:	JENKINS ENVIRONMENTAL
Contact/Report to:	M. CIRRI
Phone:	410.828.9888
Fax:	410.828.9899

E-mail address:	MCIRRI
Project Name:	GREEN VALLEY CITGO
Project Number:	2012-022
Location:	MONROVIA, MD

SDG Number:	12080602
Sampled by:	MJC
PO Number:	VERBAL

Analysis Requested

Lab Number	Field Sample ID	Date Sampled	Time Sampled	No. of Bottles	Matrix	EPA 524.2 (Preservative: HCL)	EPA 200.8 (8 METALS) (Preservative: HNO3)	Sampling Remarks/ Comments
	12-022-3995-3(2)	8/6/12	1013	3	DW	✓		3995 FARM LANE (JANITIS)
	12-022-3995-2(2)	8/6/12	1011	1	DW		✓	" " "
	12-022-3997-3(2)	8/6/12	1110	3	DW	✓		3997 FARM LANE (SZELIGA)
	12-022-3997-4(2)	8/6/12	1112	3	DW	✓		" " "
	12-022-3997-2(2)	8/6/12	1107	1	DW		✓	" " "

Relinquished by:	M. Cirri	Date/Time:	8/6/12 1233
Received by:	[illegible]	Date/Time:	8/6/12 1233
Relinquished by:		Date/Time:	
Received by:		Date/Time:	
Relinquished by:		Date/Time:	
Received by:		Date/Time:	

Deliverables: I II III CLP EDD

Receipt Temperature: Temp: ____ On Ice

Turnaround Time: STD Next Day 2-Day Other ____

Custody Seals: Sample Cooler Delivered by client

Comments/Special Instructions:

CALIBER ANALYTICAL SERVICES

Certificate of Analysis

Jenkins Environmental, Inc.
8600 LaSalle Road
York Building, Suite 509
Towson, MD 21286

Sample Details:
Waters
11812 Pine Tree Court
Monrovia, MD

Project:	Green Valley Citgo
Site Location:	Monrovia, MD
Project Number:	2012-022

Date Sampled:	08/14/12 10:49
Date Received:	08/15/12 8:21
Date Issued:	08/22/12
SDG Number:	**12081502**

Field Sample ID: 12-022-11812-2 (2) **Matrix:** Drinking Water **Lab ID:** 12081502-01

	Result	Unit	LLQ	Method	Prepared	Analyzed	Init.
Total Metals							
Arsenic	ND	ug/L	5	EPA 6020A	08/20/12	08/20/12 11:46	MEL
Barium	**11**	ug/L	5	EPA 6020A	08/20/12	08/20/12 11:46	MEL
Cadmium	ND	ug/L	5	EPA 6020A	08/20/12	08/20/12 11:46	MEL
Chromium	ND	ug/L	5	EPA 6020A	08/20/12	08/20/12 11:46	MEL
Iron	ND	ug/L	50	EPA 6020A	08/20/12	08/20/12 11:46	MEL
Lead	**4.9**	ug/L	1	EPA 6020A	08/20/12	08/20/12 11:46	MEL
Mercury	ND	ug/L	5	EPA 6020A	08/20/12	08/20/12 11:46	MEL
Selenium	ND	ug/L	5	EPA 6020A	08/20/12	08/20/12 11:46	MEL
Silver	ND	ug/L	5	EPA 6020A	08/20/12	08/20/12 11:46	MEL

Sampler Name: Michael Cirri Sampler ID: 3873MC Certification No: 1309-00-163 Expiration: 9/9/2013

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

Approved by: Matt Cobe
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

Jenkins Environmental, Inc.
8600 LaSalle Road
York Building, Suite 509
Towson, MD 21286

Sample Details:
Waters
11812 Pine Tree Court
Monrovia, MD

Project:	Green Valley Citgo
Site Location:	Monrovia, MD
Project Number:	2012-022

Date Sampled:	08/14/12 10:56
Date Received:	08/15/12 8:21
Date Issued:	08/22/12
SDG Number:	**12081502**

Field Sample ID: 12-022-11812-3 (2) **Matrix:** Drinking Water **Lab ID:** 12081502-02

	Result	Unit	LLQ	Method	Prepared	Analyzed	Init.
Volatile Organic Compounds							
Benzene	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 21:50	JKL
Bromobenzene	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 21:50	JKL
Bromochloromethane	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 21:50	JKL
Bromodichloromethane	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 21:50	JKL
Bromoform	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 21:50	JKL
Bromomethane	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 21:50	JKL
n-Butylbenzene	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 21:50	JKL
sec-Butylbenzene	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 21:50	JKL
tert-Butylbenzene	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 21:50	JKL
Carbon tetrachloride	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 21:50	JKL
Chlorobenzene	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 21:50	JKL
Chloroethane	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 21:50	JKL
Chloroform	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 21:50	JKL
Chloromethane	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 21:50	JKL
2-Chlorotoluene	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 21:50	JKL
4-Chlorotoluene	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 21:50	JKL
Dibromochloromethane	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 21:50	JKL
1,2-Dibromo-3-chloropropane	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 21:50	JKL
1,2-Dibromoethane	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 21:50	JKL
Dibromomethane	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 21:50	JKL
1,2-Dichlorobenzene	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 21:50	JKL
1,3-Dichlorobenzene	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 21:50	JKL
1,4-Dichlorobenzene	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 21:50	JKL
Dichlorodifluoromethane	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 21:50	JKL
1,1-Dichloroethane	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 21:50	JKL
1,2-Dichloroethane	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 21:50	JKL
1,1-Dichloroethene	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 21:50	JKL
cis-1,2-Dichloroethene	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 21:50	JKL
trans-1,2-Dichloroethene	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 21:50	JKL
1,2-Dichloropropane	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 21:50	JKL
1,3-Dichloropropane	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 21:50	JKL
2,2-Dichloropropane	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 21:50	JKL
1,1-Dichloropropene	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 21:50	JKL
cis-1,3-Dichloropropene	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 21:50	JKL
trans-1,3-Dichloropropene	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 21:50	JKL
Ethylbenzene	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 21:50	JKL
Isopropylbenzene	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 21:50	JKL

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CALIBER ANALYTICAL SERVICES

Certificate of Analysis

Jenkins Environmental, Inc.
8600 LaSalle Road
York Building, Suite 509
Towson, MD 21286

Sample Details:
Waters
11812 Pine Tree Court
Monrovia, MD

Project: Green Valley Citgo
Site Location: Monrovia, MD
Project Number: 2012-022

Date Sampled: 08/14/12 10:56
Date Received: 08/15/12 8:21
Date Issued: 08/22/12
SDG Number: 12081502

Field Sample ID: 12-022-11812-3 (2) **Matrix:** Drinking Water **Lab ID:** 12081502-02

	Result	Unit	LLQ	Method	Prepared	Analyzed	Init.
Volatile Organic Compounds							
p-Isopropyltoluene	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 21:50	JKL
Methylene chloride	ND	ug/L	1.5	EPA 524.2	08/17/12	08/17/12 21:50	JKL
Methyl t-butyl ether (MTBE)	ND	ug/L	0.2	EPA 524.2	08/17/12	08/17/12 21:50	JKL
Naphthalene	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 21:50	JKL
n-Propylbenzene	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 21:50	JKL
Styrene	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 21:50	JKL
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 21:50	JKL
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 21:50	JKL
Tetrachloroethene	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 21:50	JKL
Toluene	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 21:50	JKL
1,2,3-Trichlorobenzene	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 21:50	JKL
1,2,4-Trichlorobenzene	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 21:50	JKL
1,1,1-Trichloroethane	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 21:50	JKL
1,1,2-Trichloroethane	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 21:50	JKL
Trichloroethene	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 21:50	JKL
Trichlorofluoromethane	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 21:50	JKL
1,2,3-Trichloropropane	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 21:50	JKL
1,2,4-Trimethylbenzene	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 21:50	JKL
1,3,5-Trimethylbenzene	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 21:50	JKL
Vinyl chloride	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 21:50	JKL
m&p-Xylene	ND	ug/L	1	EPA 524.2	08/17/12	08/17/12 21:50	JKL
o-Xylene	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 21:50	JKL
tert-Butanol (TBA)	ND	ug/L	5	EPA 524.2	08/17/12	08/17/12 21:50	JKL
Ethyl t-butyl ether (ETBE)	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 21:50	JKL
Diisopropyl ether (DIPE)	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 21:50	JKL
tert-Amyl methyl ether (TAME)	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 21:50	JKL
tert-Amyl alcohol (TAA)	ND	ug/L	5	EPA 524.2	08/17/12	08/17/12 21:50	JKL
tert-Amyl ethyl ether (TAEE)	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 21:50	JKL

Sampler Name: Michael Cirri Sampler ID: 3873MC Certification No: 1309-00-163 Expiration: 9/9/2013

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

Approved by: Matt Coker
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

Jenkins Environmental, Inc.
8600 LaSalle Road
York Building, Suite 509
Towson, MD 21286

Sample Details:
Malone
11789 Thomas Spring Road
Monrovia, MD

Project: Green Valley Citgo
Site Location: Monrovia, MD
Project Number: 2012-022

Date Sampled: 08/14/12 11:27
Date Received: 08/15/12 8:21
Date Issued: 08/22/12
SDG Number: 12081502

Field Sample ID: 12-022-11789-2 (2) **Matrix:** Drinking Water **Lab ID:** 12081502-09

	Result	Unit	LLQ	Method	Prepared	Analyzed	Init.
Total Metals							
Arsenic	ND	ug/L	5	EPA 6020A	08/20/12	08/20/12 12:11	MEL
Barium	12	ug/L	5	EPA 6020A	08/20/12	08/20/12 12:11	MEL
Cadmium	ND	ug/L	5	EPA 6020A	08/20/12	08/20/12 12:11	MEL
Chromium	ND	ug/L	5	EPA 6020A	08/20/12	08/20/12 12:11	MEL
Iron	ND	ug/L	50	EPA 6020A	08/20/12	08/20/12 12:11	MEL
Lead	16	ug/L	1	EPA 6020A	08/20/12	08/20/12 12:11	MEL
Mercury	ND	ug/L	5	EPA 6020A	08/20/12	08/20/12 12:11	MEL
Selenium	ND	ug/L	5	EPA 6020A	08/20/12	08/20/12 12:11	MEL
Silver	ND	ug/L	5	EPA 6020A	08/20/12	08/20/12 12:11	MEL

Sampler Name: Michael Cirri Sampler ID: 3873MC Certification No: 1309-00-163 Expiration: 9/9/2013

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

Approved by: Matt Coher
QC Chemist

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CALIBER ANALYTICAL SERVICES

Certificate of Analysis

Jenkins Environmental, Inc.
8600 LaSalle Road
York Building, Suite 509
Towson, MD 21286

Sample Details:
Malone
11789 Thomas Spring Road
Monrovia, MD

Project:	Green Valley Citgo
Site Location:	Monrovia, MD
Project Number:	2012-022

Date Sampled:	08/14/12 11:27
Date Received:	08/15/12 8:21
Date Issued:	08/22/12
SDG Number:	12081502

Field Sample ID: 12-022-11789-3 (2) **Matrix:** Drinking Water **Lab ID:** 12081502-04

	Result	Unit	LLQ	Method	Prepared	Analyzed	Init.
Volatile Organic Compounds							
Benzene	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 22:15	JKL
Bromobenzene	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 22:15	JKL
Bromochloromethane	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 22:15	JKL
Bromodichloromethane	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 22:15	JKL
Bromoform	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 22:15	JKL
Bromomethane	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 22:15	JKL
n-Butylbenzene	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 22:15	JKL
sec-Butylbenzene	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 22:15	JKL
tert-Butylbenzene	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 22:15	JKL
Carbon tetrachloride	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 22:15	JKL
Chlorobenzene	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 22:15	JKL
Chloroethane	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 22:15	JKL
Chloroform	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 22:15	JKL
Chloromethane	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 22:15	JKL
2-Chlorotoluene	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 22:15	JKL
4-Chlorotoluene	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 22:15	JKL
Dibromochloromethane	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 22:15	JKL
1,2-Dibromo-3-chloropropane	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 22:15	JKL
1,2-Dibromoethane	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 22:15	JKL
Dibromomethane	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 22:15	JKL
1,2-Dichlorobenzene	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 22:15	JKL
1,3-Dichlorobenzene	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 22:15	JKL
1,4-Dichlorobenzene	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 22:15	JKL
Dichlorodifluoromethane	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 22:15	JKL
1,1-Dichloroethane	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 22:15	JKL
1,2-Dichloroethane	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 22:15	JKL
1,1-Dichloroethene	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 22:15	JKL
cis-1,2-Dichloroethene	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 22:15	JKL
trans-1,2-Dichloroethene	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 22:15	JKL
1,2-Dichloropropane	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 22:15	JKL
1,3-Dichloropropane	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 22:15	JKL
2,2-Dichloropropane	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 22:15	JKL
1,1-Dichloropropene	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 22:15	JKL
cis-1,3-Dichloropropene	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 22:15	JKL
trans-1,3-Dichloropropene	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 22:15	JKL
Ethylbenzene	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 22:15	JKL
Isopropylbenzene	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 22:15	JKL

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CALIBER ANALYTICAL SERVICES

Certificate of Analysis

Jenkins Environmental, Inc.
8600 LaSalle Road
York Building, Suite 509
Towson, MD 21286

Sample Details:
Malone
11789 Thomas Spring Road
Monrovia, MD

Project:	Green Valley Citgo
Site Location:	Monrovia, MD
Project Number:	2012-022

Date Sampled:	08/14/12 11:27
Date Received:	08/15/12 8:21
Date Issued:	08/22/12
SDG Number:	12081502

Field Sample ID: 12-022-11789-3 (2) **Matrix:** Drinking Water **Lab ID:** 12081502-04

	Result	Unit	LLQ	Method	Prepared	Analyzed	Init.
Volatile Organic Compounds							
p-Isopropyltoluene	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 22:15	JKL
Methylene chloride	ND	ug/L	1.5	EPA 524.2	08/17/12	08/17/12 22:15	JKL
Methyl t-butyl ether (MTBE)	ND	ug/L	0.2	EPA 524.2	08/17/12	08/17/12 22:15	JKL
Naphthalene	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 22:15	JKL
n-Propylbenzene	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 22:15	JKL
Styrene	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 22:15	JKL
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 22:15	JKL
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 22:15	JKL
Tetrachloroethene	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 22:15	JKL
Toluene	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 22:15	JKL
1,2,3-Trichlorobenzene	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 22:15	JKL
1,2,4-Trichlorobenzene	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 22:15	JKL
1,1,1-Trichloroethane	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 22:15	JKL
1,1,2-Trichloroethane	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 22:15	JKL
Trichloroethene	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 22:15	JKL
Trichlorofluoromethane	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 22:15	JKL
1,2,3-Trichloropropane	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 22:15	JKL
1,2,4-Trimethylbenzene	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 22:15	JKL
1,3,5-Trimethylbenzene	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 22:15	JKL
Vinyl chloride	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 22:15	JKL
m&p-Xylene	ND	ug/L	1	EPA 524.2	08/17/12	08/17/12 22:15	JKL
o-Xylene	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 22:15	JKL
tert-Butanol (TBA)	ND	ug/L	5	EPA 524.2	08/17/12	08/17/12 22:15	JKL
Ethyl t-butyl ether (ETBE)	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 22:15	JKL
Diisopropyl ether (DIPE)	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 22:15	JKL
tert-Amyl methyl ether (TAME)	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 22:15	JKL
tert-Amyl alcohol (TAA)	ND	ug/L	5	EPA 524.2	08/17/12	08/17/12 22:15	JKL
tert-Amyl ethyl ether (TAEE)	ND	ug/L	0.5	EPA 524.2	08/17/12	08/17/12 22:15	JKL

Sampler Name: Michael Cirri Sampler ID: 3873MC Certification No: 1309-00-163 Expiration: 9/9/2013

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

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CALIBER ANALYTICAL SERVICES

8851 Orchard Tree Lane Towson, MD 21286
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Chain of Custody Record

Customer:	Jenkins Environmental, Inc.
Contact/Report to:	M. Cirri
Phone:	410. 828. 9888
Fax:	410. 828. 9999

E-mail address:	mcirri@jeinc.org
Project Name:	Green Valley Citgo
Project Number:	2012-022
Location:	Monrovia, MD

SDG Number:	1208150Z
Sampled by:	MJC
PO Number:	Verbal

Analysis Requested

Lab Number	Field Sample ID	Date Sampled	Time Sampled	No. of Bottles	Matrix	EPA 200.8 (Preservative: HNO3)	EPA 524.2 (Preservative: HCL)								Sampling Remarks/ Comments
	12-022-11812-2(2)	8/14/12	1049	1	DW	✓									11812 Pine Tree Ct (Waters)
	12-022-11812-3(2)	8/14/12	1056	3	DW		✓								" " "
	12-022-11789-2(2)	8/14/12	1127	1	DW	✓									11789 Thomas Spring Rd (Malone)
	12-022-11789-3(2)	8/14/12	1133	3	DW		✓								

Relinquished by:	M. Cirri	Date/Time:	8/15/12 0820
Received by:	[signature]	Date/Time:	8/15/12 0821
Relinquished by:		Date/Time:	
Received by:		Date/Time:	
Relinquished by:		Date/Time:	
Received by:		Date/Time:	

Deliverables: I II III CLP EDD

Receipt Temperature: Temp: ____ On Ice

Turnaround Time: STD Next Day 2-Day Other ____

Custody Seals: Sample Cooler Delivered by client

Comments/Special Instructions:

Field ID	Analysis	Result	Units	Date Sampled	Lab ID	Source	Address
12-022-3997-Pre	Methyl t-butyl ether (MTBE)	0.9	ug/L	1/12/2012	12011302-04	Szeliga	3997 Farm Lane
12-022-11894	Chloroform	0.5	ug/L	2/2/2012	12020202-01	Russell	11894 Barley Court
12-022-3996-Pre	Methyl t-butyl ether (MTBE)	161	ug/L	1/31/2012	12020206-03	Ayala	3996 Farm Lane
12-022-3996-Pre	Diisopropyl ether (DIPE)	1.3	ug/L	1/31/2012	12020206-03	Ayala	3996 Farm Lane
12-022-3996-Pre	tert-Amyl methyl ether (TAME)	2.5	ug/L	1/31/2012	12020206-03	Ayala	3996 Farm Lane
12-022-3994-Pre	Methyl t-butyl ether (MTBE)	380	ug/L	1/31/2012	12020206-07	Jackson	3994 Farm Lane
12-022-3994-Pre	Diisopropyl ether (DIPE)	4	ug/L	1/31/2012	12020206-07	Jackson	3994 Farm Lane
12-022-3994-Pre	tert-Amyl methyl ether (TAME)	6.2	ug/L	1/31/2012	12020206-07	Jackson	3994 Farm Lane
12-022-3923-PRE	Methyl t-butyl ether (MTBE)	1.2	ug/L	4/13/2012	12042302-04	Dorothy Stevens	3923 Rosewood
12-022-3995-2 (2)	Barium	69	ug/L	8/6/2012	12080602-02	Jamitis	3995 Farm Lane
12-022-3995-2 (2)	Lead	22	ug/L	8/6/2012	12080602-02	Jamitis	3995 Farm Lane
12-022-3997-3 (2)	Methyl t-butyl ether (MTBE)	0.4	ug/L	8/6/2012	12080602-03	Szeliga	3997 Farm Lane
12-022-3997-2 (2)	Barium	64	ug/L	8/6/2012	12080602-05	Szeliga	3997 Farm Lane
12-022-3997-2 (2)	Chromium	2	ug/L	8/6/2012	12080602-05	Szeliga	3997 Farm Lane
12-022-3997-2 (2)	Iron	100	ug/L	8/6/2012	12080602-05	Szeliga	3997 Farm Lane
12-022-3997-2 (2)	Lead	270	ug/L	8/6/2012	12080602-05	Szeliga	3997 Farm Lane
12-022-3806-2 (2)	Barium	34	ug/L	8/10/2012	12081006-01	King	3806 Greenridge Drive
12-022-3806-2 (2)	Lead	84	ug/L	8/10/2012	12081006-01	King	3806 Greenridge Drive
12-022-3984-2 (2)	Barium	12	ug/L	8/10/2012	12081006-03	Montgomery	3984 Rye Lane
12-022-3984-2 (2)	Lead	1.7	ug/L	8/10/2012	12081006-03	Montgomery	3984 Rye Lane
12-022-3993	Barium	76	ug/L	8/7/2012	12081008-01	Hughes	3993 Farm Lane
12-022-3993	Lead	33	ug/L	8/7/2012	12081008-01	Hughes	3993 Farm Lane
12-022-3991 Pre	Barium	38	ug/L	8/7/2012	12081009-01	Ploski	3991 Farm Lane
12-022-3991 Pre	Iron	66	ug/L	8/7/2012	12081009-01	Ploski	3991 Farm Lane
12-022-3991 Pre	Lead	44	ug/L	8/7/2012	12081009-01	Ploski	3991 Farm Lane
12-022-3998	Barium	150	ug/L	8/8/2012	12081010-01	Grossman	3998 Rye Lane
12-022-3998	Lead	150	ug/L	8/8/2012	12081010-01	Grossman	3998 Rye Lane
12-022-11711	Barium	89	ug/L	8/7/2012	12081011-01	Andrews	11711 Serene Court
12-022-11711	Iron	70	ug/L	8/7/2012	12081011-01	Andrews	11711 Serene Court
12-022-11711	Lead	21	ug/L	8/7/2012	12081011-01	Andrews	11711 Serene Court
12-022-11712 Pre	Barium	58	ug/L	8/7/2012	12081012-01	Gray	11712 Serene Court
12-022-11712 Pre	Iron	140	ug/L	8/7/2012	12081012-01	Gray	11712 Serene Court
12-022-11712 Pre	Lead	980	ug/L	8/7/2012	12081012-01	Gray	11712 Serene Court
12-022-3923 Pre	Barium	66	ug/L	8/8/2012	12081013-01	Stevens	3923 Rosewood
12-022-3985	Barium	39	ug/L	8/8/2012	12081014-01	Choobineh	3985 Farm Lane
12-022-3985	Lead	22	ug/L	8/8/2012	12081014-01	Choobineh	3985 Farm Lane
12-022-3987	Barium	79	ug/L	8/7/2012	12081015-01	Gooding	3987 Farm Lane
12-022-3987	Lead	43	ug/L	8/7/2012	12081015-01	Gooding	3987 Farm Lane
12-022-11812-2 (2)	Barium	11	ug/L	8/14/2012	12081502-01	Waters	11812 Pine Tree Court
12-022-11812-2 (2)	Lead	4.9	ug/L	8/14/2012	12081502-01	Waters	11812 Pine Tree Court
12-022-11789-2 (2)	Barium	12	ug/L	8/14/2012	12081502-03	Malone	11789 Thomas Spring Road
12-022-11789-2 (2)	Lead	16	ug/L	8/14/2012	12081502-03	Malone	11789 Thomas Spring Road
12-022-11712-1 (2)	Barium	58	ug/L	8/23/2012	12082305-01	Gray	11712 Serene Court
12-022-11712-1 (2)	Cadmium	1	ug/L	8/23/2012	12082305-01	Gray	11712 Serene Court
12-022-11712-1 (2)	Lead	460	ug/L	8/23/2012	12082305-01	Gray	11712 Serene Court
12-022-11712-2 (2)	Barium	62	ug/L	8/23/2012	12082305-02	Gray	11712 Serene Court
12-022-11712-2 (2)	Lead	3	ug/L	8/23/2012	12082305-02	Gray	11712 Serene Court
12-022-3992-Pre	Barium	40	ug/L	8/23/2012	12082809-04	Podliska	3992 Farm Lane
12-022-3992-Pre	Lead	18	ug/L	8/23/2012	12082809-04	Podliska	3992 Farm Lane
12-022-3992-Pre	Methyl t-butyl ether (MTBE)	280	ug/L	8/23/2012	12082809-04	Podliska	3992 Farm Lane
12-022-3992-Pre	Diisopropyl ether (DIPE)	3.1	ug/L	8/23/2012	12082809-04	Podliska	3992 Farm Lane
12-022-3992-Pre	tert-Amyl methyl ether (TAME)	3.3	ug/L	8/23/2012	12082809-04	Podliska	3992 Farm Lane
12-022-3989-2(2)	Barium	83	ug/L	8/30/2012	12083002-01	Purkable	3989 Farm Lane
12-022-3989-2(2)	Iron	69	ug/L	8/30/2012	12083002-01	Purkable	3989 Farm Lane
12-022-3989-2(2)	Lead	110	ug/L	8/30/2012	12083002-01	Purkable	3989 Farm Lane
12-022-11894-2(2)	Barium	10	ug/L	9/4/2012	12090403-01	Russell	11894 Barclay Court
12-022-11894-2(2)	Lead	77	ug/L	9/4/2012	12090403-01	Russell	11894 Barclay Court
12-022-3994-2(2)	Barium	58	ug/L	9/4/2012	12090403-03	Jackson	3994 Farm Lane
12-022-3994-2(2)	Lead	530	ug/L	9/4/2012	12090403-03	Jackson	3994 Farm Lane
12-022-3994-3(2)	Methyl t-butyl ether (MTBE)	252.6	ug/L	9/4/2012	12090403-04	Jackson	3994 Farm Lane
12-022-3994-3(2)	Diisopropyl ether (DIPE)	2.3	ug/L	9/4/2012	12090403-04	Jackson	3994 Farm Lane
12-022-3994-3(2)	tert-Amyl methyl ether (TAME)	3.8	ug/L	9/4/2012	12090403-04	Jackson	3994 Farm Lane
12-022-3996-2(2)	Barium	77	ug/L	9/4/2012	12090403-05	Ayala	3996 Farm Lane
12-022-3996-2(2)	Iron	130	ug/L	9/4/2012	12090403-05	Ayala	3996 Farm Lane
12-022-3996-2(2)	Lead	91	ug/L	9/4/2012	12090403-05	Ayala	3996 Farm Lane
12-022-3996-3(2)	Methyl t-butyl ether (MTBE)	87.5	ug/L	9/4/2012	12090403-06	Ayala	3996 Farm Lane
12-022-3996-3(2)	Diisopropyl ether (DIPE)	0.8	ug/L	9/4/2012	12090403-06	Ayala	3996 Farm Lane
12-022-3996-3(2)	tert-Amyl methyl ether (TAME)	1.3	ug/L	9/4/2012	12090403-06	Ayala	3996 Farm Lane
12-022-4016-2(2)	Barium	40	ug/L	9/6/2012	12090604-01	Miltmore	4016 Middleton Drive
12-022-4016-2(2)	Chromium	1.1	ug/L	9/6/2012	12090604-01	Miltmore	4016 Middleton Drive
12-022-4016-2(2)	Iron	380	ug/L	9/6/2012	12090604-01	Miltmore	4016 Middleton Drive
12-022-4016-2(2)	Lead	36	ug/L	9/6/2012	12090604-01	Miltmore	4016 Middleton Drive

Field ID	Analysis	Result	Units	Date Sampled	Lab ID	Source	Address
12-022-4107-2(2)	Arsenic	1.7	ug/L	9/6/2012	12090604-03	Struble	4107 Cove Court
12-022-4107-2(2)	Iron	500	ug/L	9/6/2012	12090604-03	Struble	4107 Cove Court
12-022-4107-2(2)	Lead	2.9	ug/L	9/6/2012	12090604-03	Struble	4107 Cove Court
12-022-4107-2(2)	Selenium	3.8	ug/L	9/6/2012	12090604-03	Struble	4107 Cove Court
12-022-3933-2(2)	Barium	6.4	ug/L	9/6/2012	12090604-05	Ross	3933 Rosewood Road
12-022-3933-2(2)	Lead	25	ug/L	9/6/2012	12090604-05	Ross	3933 Rosewood Road

ENVIRO-CHEM LABORATORIES, INC.

47 Loveton Circle, Suite K • Sparks, Maryland 21152 410-472-1112

FINAL REPORT OF ANALYSES

Jenkins Environmental, Inc.
8600 La Salle Road
York Bldg, Suite 509
Towson, MD 21286

PROJECT NAME: GVC
REPORT DATE: 19-Aug-12

REPORT NUMBER: 2592

LAB#- ECL026213-001 SAMPLE ID- 12-022-3995-3(2)
LOCATION- 3995 Farm Lane
DATE SAMPLED- 8/6/2012 TIME SAMPLED- 10:13 SAMPLER- M. Cirri 1309-0016
DATE RECEIVED- 8/6/2012 TIME RECEIVED- 13:29
DELIVERED BY- M. Cirri RECEIVED BY- CHK

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromate	EPA 218.7	8/18/2012 16:05	SES	0.033	ug/L Cr	0.020

ENVIRO-CHEM
LABORATORIES, INC.

47 Loveton Circle, Suite K • Sparks, Maryland 21152 410-472-1112

FINAL REPORT OF ANALYSES

Jenkins Environmental, Inc.
8600 La Salle Road
York Bldg, Suite 509
Towson, MD 21286

PROJECT NAME: GVC
REPORT DATE: 19-Aug-12
REPORT NUMBER: 2592

LAB#- ECL026213-002 SAMPLE ID- 12-022-3997-1(2)
LOCATION- 3997 Farm Lane
DATE SAMPLED- 8/6/2012 TIME SAMPLED- 11:05 SAMPLER- M. Cirri 1309-0016
DATE RECEIVED- 8/6/2012 TIME RECEIVED- 13:29
DELIVERED BY- M. Cirri RECEIVED BY- CHK

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromate	EPA 218.7	8/18/2012 16:16	SES	< 0.020	ug/L Cr	0.020

LABORATORY DIRECTOR

Sample Chain of Custody

Enviro-Chem Laboratories, Inc. — **47 Loveton Circle, Suite K** — **Sparks, MD 21152**

Client: JENKINS ENVIRONMENTAL, INC. Phone No.: 410.828.9888

Project Manager: MICHAEL J. CIRRI Fax No.: 410.828.9899

Sampler: M. CIRRI MDE # 1309-00163 Email: MCIRRI@JEINC.ORG

Project Name: GVC Project Number: 2012-022

P.O.Number: VERBAL

ECL Log in Batch Number Page 1 of 1

Preservative Key:
NA = Nitric Acid, pH <2
SA = Sulfuric Acid, pH <2
OH = NaOH, pH >12
Th = Thiosulfate
Zn = Zinc Acetate
N = None, Chilled
X = Other

Enviro-Chem Lab No.	Sample Identification (As it is to appear on report)	Date Sampled	Time Sampled	Matrix	No. of Containers	Sample Type C = Comp. G = Grab	EPA 218.7 (Cr VI) Preservative: NH4OH (NH4)2SO4								Remarks
26213-001	12-012-3995-3(2)	8/6/12		DW	1	G	✓								JANITIS - 3995 FARM LANE
-002	12-012-3997-1(2)	8/6/12		DW	1	G	✓								SZELIGA-3997 FARM LANE

Collected / Relinquished By	Date	Time	Received By
M. Cirri	8/6/12	1329	Clare 1 Hlaynd
Relinquished By	Date	Time	Received By
Relinquished By	Date	Time	Received By
Relinquished By	Date	Time	Received By

Deliverables Required

Coolers: 1 Seal

Due Date

Ice Present: Y Temp: 6.6

Turnaround Requested Rush?

STD (circled) 1-Day Other

Special Instructions, Comments:

T=6.6°C [illegible]

Completed by [illegible]

COC/Labels match: Y N (Y circled)
Bottles intact/appropriate: Y N (Y circled)

# of Samples: 2 # of Bottles: 2

Preserved correctly: Y N NA (Y circled)

Explain any "NO" answers

Preservative added at Lab: Y N NA

ECL Doc 1 (05/29/12)

Phone 410-472-1112 www.enviro-chem.net Fax: 410-472-1116

ENVIRO-CHEM LABORATORIES, INC.

47 Loveton Circle, Suite K • Sparks, Maryland 21152 410-472-1112

FINAL REPORT OF ANALYSES

Jenkins Environmental, Inc.
8600 La Salle Road
York Bldg, Suite 509
Towson, MD 21286

PROJECT NAME: 12-022
REPORT DATE: 19-Aug-12
REPORT NUMBER: 2593

LAB#- ECL026235-001 SAMPLE ID- 12-022-3987
LOCATION- Gooding 3987 Farm Ln
DATE SAMPLED- 8/7/2012 TIME SAMPLED- 10:03 SAMPLER- B. Triplett
DATE RECEIVED- 8/7/2012 TIME RECEIVED- 13:45
DELIVERED BY- B. Triplett RECEIVED BY- SES

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromate	EPA 218.7	8/18/2012 16:50	SES	< 0.020	ug/L Cr	0.020

LABORATORY DIRECTOR

Sample Chain of Custody

Enviro-Chem Laboratories, Inc. 47 Loveton Circle, Suite K **Sparks, MD 21152**

Client: Jenkins Environmental Inc	Phone No.: 410 828-9888
Project Manager: M. Cirri	Fax No.: 410 828-9899
Sampler: Bob Triplett	Email: mcirri@jeinc.org
Project Name: Green Valley Citgo	Project Number: 12-022
P.O.Number:	

ECL Log in Batch Number

Page of

Preservative Key:
NA = Nitric Acid, pH <2
SA = Sulfuric Acid, pH <2
OH = NaOH, pH >12
Th = Thiosulfate
Zn = Zinc Acetate
N = None, Chilled
X = Other

Enviro-Chem Lab No.	Sample Identification (As it is to appear on report)	Date Sampled	Time Sampled	Matrix	No. of Containers	Sample Type (C = Comp. G = Grab)	EPA 218.7								Remarks
Preservative															
26235-001	12-022-3987	8/7/12	10:03	DW	1	G	✓								Good, 3987 Far-Ln

Collected / Relinquished By	Date	Time	Received By
[signature]	8/7/12	13:45	[signature]
Relinquished By	Date	Time	Received By
Relinquished By	Date	Time	Received By
Relinquished By	Date	Time	Received By

Deliverables Required

\# Coolers Seal

Due Date

Ice Present: Y Temp: 14.2

Turnaround Requested Rush?

STD 1-Day Other

Special Instructions, Comments:

COC/Labels match Y N
Bottles intact/appropriate Y N

\# of Samples \# of Bottles
Preserved correctly Y N NA

Explain any "NO" answers
Preservative added at Lab Y N NA

Completed by

ECL Doc 1 (05/29/12)

ENVIRO-CHEM LABORATORIES, INC.

47 Loveton Circle, Suite K • Sparks, Maryland 21152 410-472-1112

FINAL REPORT OF ANALYSES

Jenkins Environmental, Inc.
8600 La Salle Road
York Bldg, Suite 509
Towson, MD 21286

PROJECT NAME: 12-022
REPORT DATE: 19-Aug-12
REPORT NUMBER: 2594

LAB#- ECL026236-001 SAMPLE ID- 12-022-3993
LOCATION- Hughes 3993 Farm Ln
DATE SAMPLED- 8/7/2012 TIME SAMPLED- 10:20 SAMPLER- B. Triplett
DATE RECEIVED- 8/7/2012 TIME RECEIVED- 13:45
DELIVERED BY- B. Triplett RECEIVED BY- SES

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromate	EPA 218.7	8/18/2012 17:02	SES	< 0.020	ug/L Cr	0.020

LABORATORY DIRECTOR

Enviro-Chem Laboratories, Inc.

Sample Chain of Custody

47 Loveton Circle, Suite K

Sparks, MD 21152

Client: Jenkins Environmental Inc Phone No.: (410) 828-9888

Project Manager: M. Cirri Fax No.: (410) 828-9899

Sampler: B. Triplett Email: mcirri@jeinc.org

Project Name: Green Valley Citgo Project Number: 12-022

P.O.Number:

ECL Log in Batch Number

Page of

Preservative Key:
NA = Nitric Acid, pH <2
SA = Sulfuric Acid, pH <2
OH = NaOH, pH >12
Th = Thiosulfate
Zn = Zinc Acetate
N = None, Chilled
X = Other

Enviro-Chem Lab No.	Sample Identification (As it is to appear on report)	Date Sampled	Time Sampled	Matrix	No. of Containers	Sample Type C = Comp. G = Grab	EPA # 218.7									Remarks
26236-001	12-022-3993	8/7/12	10:20	DW	1	G	✓									Hughes 3993 Farm Ln

	Date	Time		
Collected / Relinquished By	8/7/12	13:45	Received By	Deliverables Required
Relinquished By	Date	Time	Received By	Due Date
Relinquished By	Date	Time	Received By	Turnaround Requested Rush? STD 1-Day Other
Relinquished By	Date	Time	Received By	Special instructions, Comments:

Coolers Seal

Ice Present Temp

COC/Labels match Y N

Bottles intact/appropriate Y N

# of Samples # of Bottles

Preserved correctly Y N NA

Explain any "NO" answers

Preservative added at Lab Y N NA

Completed by

Phone 410-472-1112

www.enviro-chem.net

ECL Doc 1 (05/2002)

Fax: 410-472-1116

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47 Loveton Circle, Suite K • Sparks, Maryland 21152 410-472-1112

FINAL REPORT OF ANALYSES

Jenkins Environmental, Inc.
8600 La Salle Road
York Bldg, Suite 509
Towson, MD 21286

PROJECT NAME: 12-022
REPORT DATE: 19-Aug-12

REPORT NUMBER: 2595

LAB#- ECL026237-001 SAMPLE ID- 12-022-3991
LOCATION- Ploski 3991 Farm Ln
DATE SAMPLED- 8/7/2012 TIME SAMPLED- 12:12 SAMPLER- B. Triplett
DATE RECEIVED- 8/7/2012 TIME RECEIVED- 13:45
DELIVERED BY- B. Triplett RECEIVED BY- SES

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromate	EPA 218.7	8/18/2012 17:13	SES	0.052	ug/L Cr	0.020

LABORATORY DIRECTOR

Sample Chain of Custody

Enviro-Chem Laboratories, Inc.

47 Loveton Circle, Suite K

Sparks, MD 21152

Client: Jenkins Environmental — Phone No.: (410) 828-9888 — ECL Log in Batch Number — Page of

Project Manager: M. Cirri — Fax No.: (410) 828-9899

Sampler: B. Triplett — Email: mcirri@jeinc.org

Project Name: Greenvalley Citgo — Project Number: 12-022

P.O.Number:

Preservative Key:
NA = Nitric Acid, pH <2
SA = Sulfuric Acid, pH <2
OH = NaOH, pH >12
Th = Thiosulfate
Zn = Zinc Acetate
N = None, Chilled
X = Other

Enviro-Chem Lab No.	Sample Identification (As it is to appear on report)	Date Sampled	Time Sampled	Matrix	No. of Containers	Sample Type (C = Comp. G = Grab)	EPA 218.7	Remarks
26237-001	12-022-3991	8/7/12	12:12	DW	1	G	✓	Ploski 3991 Fars Ln

Collected / Relinquished By	Date	Time	Received By
[signature]	8/7/12	13:45	[signature]
Relinquished By	Date	Time	Received By
Relinquished By	Date	Time	Received By
Relinquished By	Date	Time	Received By

Deliverables Required

Coolers — Seal

Due Date

Ice Present — Temp

Turnaround Requested — Rush?

STD — 1-Day — Other

Special instructions, Comments:

COC/Labels match Y N — # of Samples — # of Bottles — Explain any "NO" answers

Bottles intact/appropriate Y N — Preserved correctly Y N NA — Preservative added at Lab Y N NA

Completed by

ECL Doc 1 (05/29/12)

ENVIRO-CHEM LABORATORIES, INC.

47 Loveton Circle, Suite K • Sparks, Maryland 21152 410-472-1112

FINAL REPORT OF ANALYSES

Jenkins Environmental, Inc.
8600 La Salle Road
York Bldg, Suite 509
Towson, MD 21286

PROJECT NAME: 12-022
REPORT DATE: 19-Aug-12

REPORT NUMBER: 2596

LAB#- ECL026238-001 SAMPLE ID- 12-022-11711
LOCATION- Andrews 11711 Serene Ct
DATE SAMPLED- 8/7/2012 TIME SAMPLED- 11:22 SAMPLER- B. Triplett
DATE RECEIVED- 8/7/2012 TIME RECEIVED- 13:45
DELIVERED BY- B. Triplett RECEIVED BY- SES

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromate	EPA 218.7	8/18/2012 17:25	SES	< 0.020	ug/L Cr	0.020

LABORATORY DIRECTOR

Sample Chain of Custody

Enviro-Chem Laboratories, Inc.
47 Loveton Circle, Suite K
Sparks, MD 21152

Client: Jenkins Environmental Inc Phone No.: (410) 828-1888

Project Manager: M. Cirri Fax No. (410) 828 9899

Sampler: B. Triplett Email: mcirri@jeinc.org

Project Name: Green Valley Citgo Project Number: 12-022

P.O. Number:

ECL Log In Batch Number

Page of

Preservative Key:
NA = Nitric Acid, pH <2
SA = Sulfuric Acid, pH <2
OH = NaOH, pH >12
Th = Thiosulfate
Zn = Zinc Acetate
N = None, Chilled
X = Other

Enviro-Chem Lab No.	Sample Identification (As it is to appear on report)	Date Sampled	Time Sampled	Matrix	No. of Containers	Sample Type (C = Comp. G = Grab)	EPA 8216.7	Remarks
26238-001	12-022-11711	8/7/12	11:22	OW	1	G	✓	Andrews 11711 Serene Ct

Collected / Relinquished By	Date	Time	Received By
[signature]	8/7/12	13:45	Stephen E. [signature]
Relinquished By	Date	Time	Received By
Relinquished By	Date	Time	Received By
Relinquished By	Date	Time	Received By

Deliverables Required

Due Date

Coolers Seal

Ice Present Temp

Turnaround Requested Rush?

STD 1-Day Other

Special Instructions, Comments:

Completed by

COC/Labels match Y N

Bottles intact/appropriate Y N

# of Samples # of Bottles

Preserved correctly Y N NA

Explain any "NO" answers

Preservative added at Lab Y N NA

ECL Doc 1 (05/29/12)

Phone 410-472-1112
www.enviro-chem.net
Fax: 410-472-1116

ENVIRO-CHEM LABORATORIES, INC.

47 Loveton Circle, Suite K • Sparks, Maryland 21152 410-472-1112

FINAL REPORT OF ANALYSES

Jenkins Environmental, Inc.
8600 La Salle Road
York Bldg, Suite 509
Towson, MD 21286

PROJECT NAME: 12-022
REPORT DATE: 19-Aug-12
REPORT NUMBER: 2597

LAB#- ECL026239-001 - SAMPLE ID- 12-022-11712
LOCATION- Gray 11712 Serene Ct
DATE SAMPLED- 8/7/2012 TIME SAMPLED- 11:06 SAMPLER- B. Triplett
DATE RECEIVED- 8/7/2012 TIME RECEIVED- 13:45
DELIVERED BY- B. Triplett RECEIVED BY- SES

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromate	EPA 218.7	8/18/2012 17:36	SES	< 0.020	ug/L Cr	0.020

Stephen E. Shell
LABORATORY DIRECTOR

Enviro-Chem Laboratories, Inc.

Sample Chain of Custody

47 Loveton Circle, Suite K **Sparks, MD 21152**

Client: Jenkins Environmental Inc Phone No.: (410) 828-9888

Project Manager: M. Cirri Fax No.: (410) 828-9899

Sampler: B. Triplett Email: mcirri@jeinc.org

Project Name: Greenvalley Citgo Project Number: 12-022

P.O.Number:

ECL Log in Batch Number

Page of

Preservative Key:
NA = Nitric Acid, pH <2
SA = Sulfuric Acid, pH <2
OH = NaOH, pH >12
Th = Thiosulfate
Zn = Zinc Acetate
N = None, Chilled
X = Other

Enviro-Chem Lab No.	Sample Identification (As it is to appear on report)	Date Sampled	Time Sampled	Matrix	No. of Containers	Sample Type C = Comp. G = Grab	Preservative / EPA # 8260								Remarks
26239-001	12-022-11712	8/7/12	11:06	DW	1	G	✓								Gray 11712 Serene Ct

Collected / Relinquished By	Date	Time	Received By
[signature]	8/7/12	13:45	[signature]
Relinquished By	Date	Time	Received By
Relinquished By	Date	Time	Received By
Relinquished By	Date	Time	Received By

Deliverables Required

\# Coolers Seal

Due Date

Ice Present Temp

Turnaround Requested Rush?

STD 1-Day Other

Special instructions, Comments:

COC/Labels match Y N

Bottles intact/appropriate Y N

\# of Samples # of Bottles

Preserved correctly Y N NA

Explain any "NO" answers

Preservative added at Lab Y N NA

Completed by

Phone 410-472-1112

www.enviro-chem.net

ECL Doc 1 (05/29/12)

Fax: 410-472-1116

ENVIRO-CHEM LABORATORIES, INC.

47 Loveton Circle, Suite K • Sparks, Maryland 21152 410-472-1112

FINAL REPORT OF ANALYSES

Jenkins Environmental, Inc.
8600 La Salle Road
York Bldg, Suite 509
Towson, MD 21286

PROJECT NAME: 12-022
REPORT DATE: 19-Aug-12

REPORT NUMBER: 2598

LAB#- ECL026245-001 SAMPLE ID- 12-022-3985
LOCATION- Choobineh 3985 Farm Ln
DATE SAMPLED- 8/8/2012 TIME SAMPLED- 8:05 SAMPLER- B. Triplett
DATE RECEIVED- 8/8/2012 TIME RECEIVED- 10:45
DELIVERED BY- B. Triplett RECEIVED BY- VPS

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromate	EPA 218.7	8/18/2012 18:10	SES	0.042	ug/L Cr	0.020

LABORATORY DIRECTOR

Sample Chain of Custody

Enviro-Chem Laboratories, Inc.
47 Loveton Circle, Suite K
Sparks, MD 21152

Client: Jenkins Environmental inc Phone No.: (410) 828-9888
ECL Log In Batch Number   Page of
Project Manager: mcirri Fax No.: (410) 828-9899
Sampler: B Triplett Email: mcirri@jeinc.org
Project Name: Green Valley Cityo Project Number: 12-022
P.O.Number:

Preservative Key:
NA = Nitric Acid, pH <2
SA = Sulfuric Acid, pH <2
OH = NaOH, pH >12
Th = Thiosulfate
Zn = Zinc Acetate
N = None, Chilled
X = Other

Enviro-Chem Lab No.	Sample Identification (As it is to appear on report)	Date Sampled	Time Sampled	Matrix	No. of Containers	Sample Type C = Comp. G = Grab	EPA 218.7								Remarks
26245-001	12-022-3985	8/8/12	8:05	DW	1	G	✓								Choobineh 3985 Farm Ln

Collected / Relinquished By	Date	Time	Received By
[signature]	8/8/12	10:45	[signature]
Relinquished By	Date	Time	Received By
Relinquished By	Date	Time	Received By
Relinquished By	Date	Time	Received By

Deliverables Required
Due Date
\# Coolers Seal
Ice Present Temp
Turnaround Requested Rush?
STD 1-Day Other
Special instructions, Comments:
Completed by

COC/Labels match Y N
Bottles intact/appropriate Y N
\# of Samples # of Bottles
Preserved correctly Y N NA
Explain any "NO" answers
Preservative added at Lab Y N NA

Phone 410-472-1112 www.enviro-chem.net Fax: 410-472-1116

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FINAL REPORT OF ANALYSES

Jenkins Environmental, Inc.
8600 La Salle Road
York Bldg, Suite 509
Towson, MD 21286

PROJECT NAME: 12-022
REPORT DATE: 19-Aug-12

REPORT NUMBER: 2599

LAB#- ECL026246-001 SAMPLE ID- 12-022-3923
LOCATION- Stevens 3923 Rosewood Rd
DATE SAMPLED- 8/8/2012 TIME SAMPLED- 9:17 SAMPLER- B. Triplett
DATE RECEIVED- 8/8/2012 TIME RECEIVED- 10:45
DELIVERED BY- B. Triplett RECEIVED BY- VPS

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromate	EPA 218.7	8/18/2012 18:22	SES	0.036	ug/L Cr	0.020

LABORATORY DIRECTOR

Sample Chain of Custody

Enviro-Chem Laboratories, Inc.
47 Loveton Circle, Suite K
Sparks, MD 21152

Client: Jenkins Environmental Inc Phone No.: (410) 828-9888
ECL Log in Batch Number
Page of

Project Manager: M Cirri Fax No.: (410) 828-9899
Sampler: B. Triplett Email: mcirri@jeinc.org
Project Name: Green Valley Citgo Project Number: 12-022
P.O.Number:

Enviro-Chem Lab No.	Sample Identification (As it is to appear on report)	Date Sampled	Time Sampled	Matrix	No. of Containers	Sample Type C = Comp. G = Grab	EPA 8260								Remarks
						Preservative									
26246-001	12-022-3923	8/8/12	9:17	DC	1	G	✓								Stevens 3923 Rosewood Rd

Preservative Key:
NA = Nitric Acid, pH <2
SA = Sulfuric Acid, pH <2
OH = NaOH, pH >12
Th = Thiosulfate
Zn = Zinc Acetate
N = None, Chilled
X = Other

Collected / Relinquished By	Date	Time	Received By
[signature]	8/8/12	10:45	[signature]
Relinquished By	Date	Time	Received By
Relinquished By	Date	Time	Received By
Relinquished By	Date	Time	Received By

Deliverables Required
Due Date
\# Coolers Seal
Ice Present Temp
Turnaround Requested Rush?
STD 1-Day Other
Special Instructions, Comments:

COC/Labels match Y N
Bottles intact/appropriate Y N
\# of Samples \# of Bottles
Preserved correctly Y N NA
Explain any "NO" answers
Preservative added at Lab Y N NA
Completed by

ENVIRO-CHEM LABORATORIES, INC.

47 Loveton Circle, Suite K • Sparks, Maryland 21152 410-472-1112

FINAL REPORT OF ANALYSES

Jenkins Environmental, Inc.
8600 La Salle Road
York Bldg, Suite 509
Towson, MD 21286

PROJECT NAME: 12-022
REPORT DATE: 19-Aug-12

REPORT NUMBER: 2600

LAB#- ECL026247-001 SAMPLE ID- 12-022-3998
LOCATION- Grosman 3998 Rye Ln
DATE SAMPLED- 8/8/2012 TIME SAMPLED- 8:51 SAMPLER- B. Triplett
DATE RECEIVED- 8/8/2012 TIME RECEIVED- 10:45
DELIVERED BY- B. Triplett RECEIVED BY- VPS

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromate	EPA 218.7	8/18/2012 18:33	SES	< 0.020	ug/L Cr	0.020

LABORATORY DIRECTOR

Sample Chain of Custody

Enviro-Chem Laboratories, Inc. — 47 Loveton Circle, Suite K — Sparks, MD 21152

Client: Jenkins Environmental Inc Phone No.: (410)828-9888 ECL Log in Batch Number Page of

Project Manager: M. Cirri Fax No.: (410)828-9899

Sampler: B. Triplett Email: mcirri@jeinc.org

Project Name: Green Valley Citgo Project Number: 12-022

P.O.Number:

Preservative Key:
NA = Nitric Acid, pH <2
SA = Sulfuric Acid, pH <2
OH = NaOH, pH >12
Th = Thiosulfate
Zn = Zinc Acetate
N = None, Chilled
X = Other

Enviro-Chem Lab No.	Sample Identification (As it is to appear on report)	Date Sampled	Time Sampled	Matrix	No. of Containers	Sample Type (C = Comp. G = Grab)	EPA 218.7								Remarks
26247-001	12-022-3998	8/8/12	851	DW	1	G	✓								Grossman 3998 Rye Ln

Collected / Relinquished By	Date	Time	Received By
[signature]	8/8/12	10:45	[signature]
Relinquished By	Date	Time	Received By
Relinquished By	Date	Time	Received By
Relinquished By	Date	Time	Received By

Deliverables Required

Due Date

Coolers Seal

Ice Present Temp

Turnaround Requested Rush?

STD 1-Day Other

Special instructions, Comments:

COC/Labels match Y N

Bottles intact/appropriate Y N

# of Samples # of Bottles

Preserved correctly Y N NA

Explain any "NO" answers

Preservative added at Lab Y N NA

Completed by

ECL Doc 1 (05/29/12)

ENVIRO-CHEM LABORATORIES, INC.

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FINAL REPORT OF ANALYSES

Jenkins Environmental, Inc.
8600 La Salle Road
York Bldg, Suite 509
Towson, MD 21286

PROJECT NAME: 2012-022
REPORT DATE: 19-Aug-12
REPORT NUMBER: 2601

LAB#- ECL026281-001 SAMPLE ID- 12-022-3806-1 (2)
LOCATION- King 3806 Greenridge Rd
DATE SAMPLED- 8/10/2012 TIME SAMPLED- 9:58 SAMPLER- M. Cirri 1309-0016
DATE RECEIVED- 8/10/2012 TIME RECEIVED- 12:25
DELIVERED BY- M. Cirri RECEIVED BY- VPS

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromate	EPA 218.7	8/18/2012 18:45	SES	0.050	ug/L Cr	0.020

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FINAL REPORT OF ANALYSES

Jenkins Environmental, Inc.
8600 La Salle Road
York Bldg, Suite 509
Towson, MD 21286

PROJECT NAME: 2012-022
REPORT DATE: 19-Aug-12
REPORT NUMBER: 2601

LAB#- ECL026281-002 SAMPLE ID- 12-022-3984-1 (2)
LOCATION- Montgomery 3984 Rye Ln
DATE SAMPLED- 8/10/2012 TIME SAMPLED- 10:32 SAMPLER- M. Cirri 1309-0016
DATE RECEIVED- 8/10/2012 TIME RECEIVED- 12:25
DELIVERED BY- M. Cirri RECEIVED BY- VPS

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromate	EPA 218.7	8/18/2012 18:56	SES	0.047	ug/L Cr	0.020

LABORATORY DIRECTOR

Sample Chain of Custody

Enviro-Chem Laboratories, Inc.
47 Loveton Circle, Suite K
Sparks, MD 21152

Client: JENKINS ENVIRONMENTAL, INC Phone No.: 410.828.9888
Project Manager: MICHAEL J. CIRRI Fax No.: 410.828.9899
Sampler: M. CIRRI MDE# 1309-00163 Email: MCIRRI@JEINC.ORG
Project Name: GVC Project Number: 2012-022
P.O.Number: VERBAL

ECL Log in Batch Number
Page 1 of 1

Preservative: NH4 OH (NH4)2SO4
Analysis: EPA 218.7

Preservative Key:
NA = Nitric Acid, pH <2
SA = Sulfuric Acid, pH <2
OH = NaOH, pH >12
Th = Thiosulfate
Zn = Zinc Acetate
N = None, Chilled
X = Other

Enviro-Chem Lab No.	Sample Identification (As it is to appear on report)	Date Sampled	Time Sampled	Matrix	No. of Containers	Sample Type C = Comp. G = Grab	EPA 218.7	Remarks
26281-001	12-022-3806-1(2)	8/10/12	0958	DW	1			3806 GREENRIDGE DR (KING)
26281-002	12-022-3984-1(2)	8/10/12	1032	DW	1			3984 RYE LANE (MONTGOMERY)

Collected / Relinquished By	Date	Time	Received By
M. Cirri	8/10/12	1225	[signature]
Relinquished By	Date	Time	Received By
Relinquished By	Date	Time	Received By
Relinquished By	Date	Time	Received By

Deliverables Required
Coolers: 1 Seal
Due Date
Ice Present: Y Temp: 8.8
Turnaround Requested: STD 1-Day Other Rush?
Special instructions, Comments:

COC/Labels match Y N
Bottles intact/appropriate Y N
# of Samples # of Bottles
Preserved correctly Y N NA
Explain any "NO" answers
Preservative added at Lab Y N NA
Completed by

ECL Doc 1 (05/29/12)

Phone 410-472-1112 www.enviro-chem.net Fax: 410-472-1116

ENVIRO-CHEM LABORATORIES, INC.

47 Loveton Circle, Suite K • Sparks, Maryland 21152 410-472-1112

FINAL REPORT OF ANALYSES

Jenkins Environmental, Inc.
8600 La Salle Road
York Bldg, Suite 509
Towson, MD 21286

PROJECT NAME: 2012-022
REPORT DATE: 19-Aug-12
REPORT NUMBER: 2602

LAB#- ECL026300-001 SAMPLE ID- 12-022-11812-1 (2)
LOCATION- Waters 11812 Pine Tree
DATE SAMPLED- 8/14/2012 TIME SAMPLED- 10:48 SAMPLER- M. Cirri 1309-0016
DATE RECEIVED- 8/14/2012 TIME RECEIVED- 13:15
DELIVERED BY- M. Cirri RECEIVED BY- VPS

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromate	EPA 218.7	8/18/2012 19:30	SES	< 0.020	ug/L Cr	0.020

ENVIRO-CHEM LABORATORIES, INC.

47 Loveton Circle, Suite K • Sparks, Maryland 21152 410-472-1112

FINAL REPORT OF ANALYSES

Jenkins Environmental, Inc.
8600 La Salle Road
York Bldg, Suite 509
Towson, MD 21286

PROJECT NAME: 2012-022
REPORT DATE: 19-Aug-12

REPORT NUMBER: 2602

LAB#- ECL026300-002 SAMPLE ID- 12-022-11789-1 (2)
LOCATION- Malone 11789 Thos Spring
DATE SAMPLED- 8/14/2012 TIME SAMPLED- 11:26 SAMPLER- M. Cirri 1309-0016
DATE RECEIVED- 8/14/2012 TIME RECEIVED- 13:15
DELIVERED BY- M. Cirri RECEIVED BY- VPS

Page 2 of 2

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromate	EPA 218.7	8/18/2012 19:42	SES	< 0.020	ug/L Cr	0.020

Stephen E. Stally
LABORATORY DIRECTOR

Sample Chain of Custody

Enviro-Chem Laboratories, Inc.

47 Loveton Circle, Suite K

Sparks, MD 21152

Client: JENKINS ENVIRONMENTAL, INC.
Phone No.: 410.828.9888

Project Manager: MICHAEL J. CIRRI
Fax No.: 410.828.9899

Sampler: M. CIRRI MDE #1309-00163
Email: MCIRRI@JEINC.ORG

Project Name: GVC
Project Number: 2012-022

P.O.Number: VERBAL

ECL Log in Batch Number

Page 1 of 1

Preservative: NH_4OH $(NH_4)_2SO_4$

Analysis: EPA 218.7 (Cr6)

Preservative Key:
NA = Nitric Acid, pH <2
SA = Sulfuric Acid, pH <2
OH = NaOH, pH >12
Th = Thiosulfate
Zn = Zinc Acetate
N = None, Chilled
X = Other

Enviro-Chem Lab No.	Sample Identification (As it is to appear on report)	Date Sampled	Time Sampled	Matrix	No. of Containers	Sample Type C = Comp. G = Grab	EPA 218.7 (Cr6)	Remarks
26300-001	12-022-11812-1(2)	8/14/12	1048	DW	1	G	✓	11812 PINE TREE CT (WATERS)
-002	12-022-11789-1(2)	8/14/12	1126	DW	1	G	✓	11789 THOMAS SPRING RD (MALONE)

Collected / Relinquished By	Date	Time	Received By
M. Cirri	8/14/12	1315	[signature]
Relinquished By	Date	Time	Received By
Relinquished By	Date	Time	Received By
Relinquished By	Date	Time	Received By

Deliverables Required

Due Date

Coolers: 1 Seal

Ice Present: Y Temp: 6.7

Turnaround Requested: STD 1-Day Other Rush?

Special Instructions, Comments:

COC/Labels match: Y N (Y circled)

Bottles intact/appropriate: Y N (Y circled)

# of Samples 2 # of Bottles 2

Preserved correctly Y N NA (Y circled)

Explain any "NO" answers

Preservative added at Lab Y N NA

Completed by VJ

Phone 410-472-1112

www.enviro-chem.net

Fax: 410-472-1116

ECL Doc 1 (05/29/12)

ENVIRO-CHEM LABORATORIES, INC.

47 Loveton Circle, Suite K • Sparks, Maryland 21152 410-472-1112

FINAL REPORT OF ANALYSES

Jenkins Environmental, Inc.
8600 La Salle Road
York Bldg, Suite 509
Towson, MD 21286

PROJECT NAME: 2012-022
REPORT DATE: 27-Aug-12

REPORT NUMBER: 2688

LAB#- ECL026385-001 SAMPLE ID- 12-022-3992
LOCATION- Podliska - 3992 Farm Ln
DATE SAMPLED- 8/23/2012 TIME SAMPLED- 9:18 SAMPLER- B. Triplett
DATE RECEIVED- 8/23/2012 TIME RECEIVED- 10:25
DELIVERED BY- B. Triplett RECEIVED BY- VPS

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromate	EPA 218.7	8/25/2012 23:31	SES	< 0.020	ug/L Cr	0.020

LABORATORY DIRECTOR

www.enviro-chem.net

parks, MD 21152

of

Preservative Key:
NA = Nitric Acid, pH <2
SA = Sulfuric Acid, pH <2
OH = NaOH, pH >12
Th = Thiosulfate
Zn = Zinc Acetate
N = None, Chilled
X = Other

Remarks

dliska
92 Farm Ln

lers Seal
+

esent Temp
1 12.0

ECL Doc 1 (05/29/12)

Fax: 410-472-1116

ENVIRO-CHEM LABORATORIES, INC.

47 Loveton Circle, Suite K • Sparks, Maryland 21152 410-472-1112

FINAL REPORT OF ANALYSES

Jenkins Environmental, Inc.
8600 La Salle Road
York Bldg, Suite 509
Towson, MD 21286

PROJECT NAME: GVC
REPORT DATE: 31-Aug-12
REPORT NUMBER: 2729

LAB#- ECL026457-001 SAMPLE ID- 12-022-3989-1 (2)
LOCATION- 3989 Farm Lane
DATE SAMPLED- 8/30/2012 TIME SAMPLED- 6:29 SAMPLER- M. Cirri
DATE RECEIVED- 8/30/2012 TIME RECEIVED- 13:30
DELIVERED BY- M. Cirri RECEIVED BY- SES

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT		DETECTION LIMIT
Chromate	EPA 218.7	8/31/2012 11:06	SES	< 0.020	ug/L Cr	0.020

LABORATORY DIRECTOR

Sample Chain of Custody

Enviro-Chem Laboratories, Inc. — 47 Loveton Circle, Suite K — Sparks, MD 21152

Client: JENKINS ENVIRONMENTAL INC — Phone No.: 410. 828. 9888

Project Manager: M. CIRRI — Fax No.: 410. 828. 9899

Sampler: M. CIRRI — Email: MCIRRI@JEINC.ORG

Project Name: GVC — Project Number:

P.O.Number:

ECL Log in Batch Number — Page of

Preservative: X

Analysis: EPA 218.7

Preservative Key:
NA = Nitric Acid, pH <2
SA = Sulfuric Acid, pH <2
OH = NaOH, pH >12
Th = Thiosulfate
Zn = Zinc Acetate
N = None, Chilled
X = Other

Enviro-Chem Lab No.	Sample Identification (As it is to appear on report)	Date Sampled	Time Sampled	Matrix	No. of Containers	Sample Type C = Comp. G = Grab	EPA 218.7							Remarks
26457-001	12-022-3989-1(2)	8/30/12	0629	DW	1	G								3989 FARM LANE (PURGEABLE) @ P/T IN BSMT

Collected / Relinquished By	Date	Time	Received By
M. Cirri	8/30/12	1330	[signature]
Relinquished By	Date	Time	Received By
Relinquished By	Date	Time	Received By
Relinquished By	Date	Time	Received By

Deliverables Required

\# Coolers — Seal

Due Date

Ice Present: Y — Temp: 8.8

Turnaround Requested — Rush?

STD — 1-Day — Other

Special instructions, Comments:

COC/Labels match Y N — # of Samples — # of Bottles — Explain any "NO" answers

Bottles intact/appropriate Y N — Preserved correctly Y N NA — Preservative added at Lab Y N NA

Completed by

ECL Doc 1 (05/29/12)

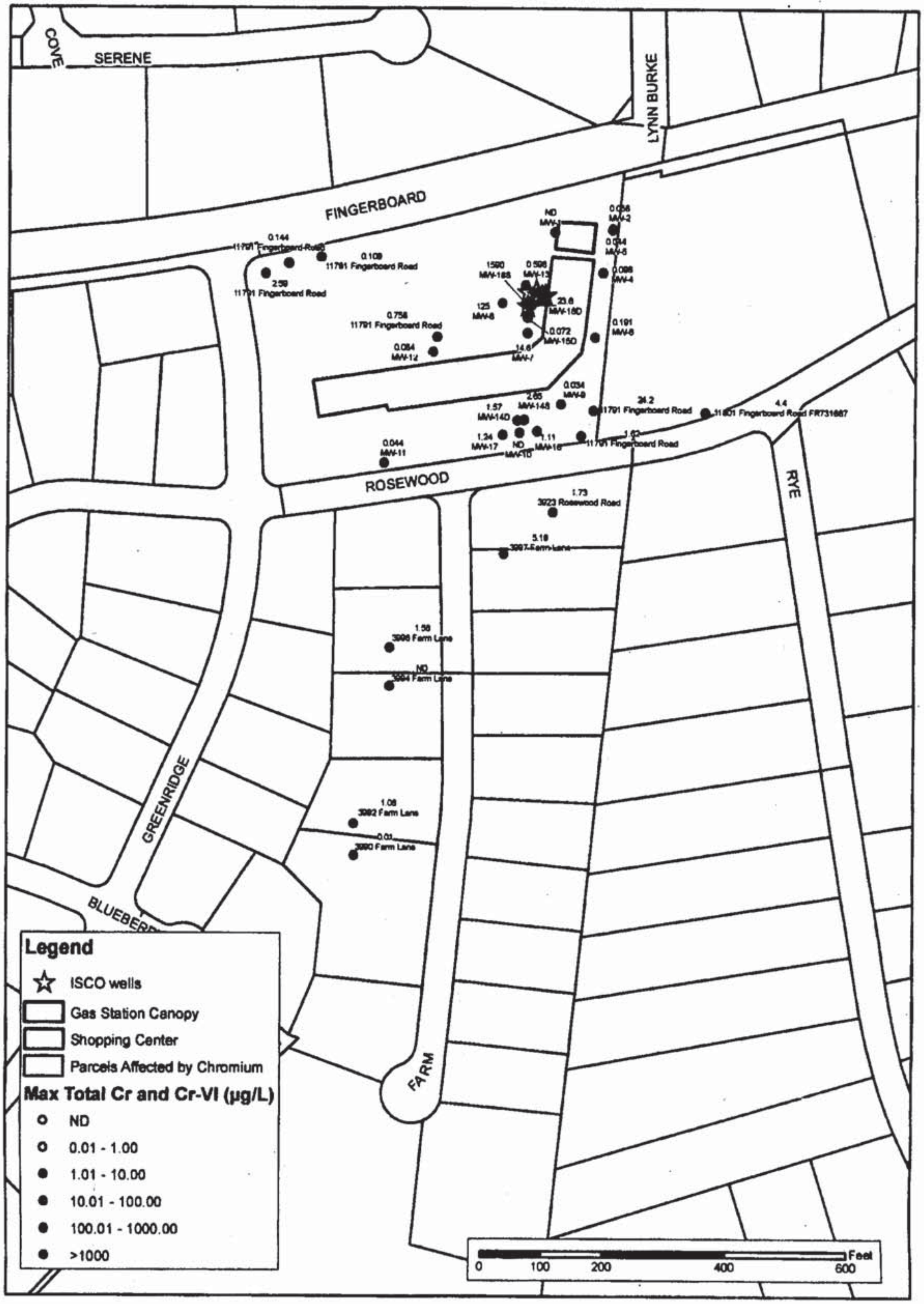

Figure 1 Results of Chromium Analyses in Monitoring Wells and at Residences

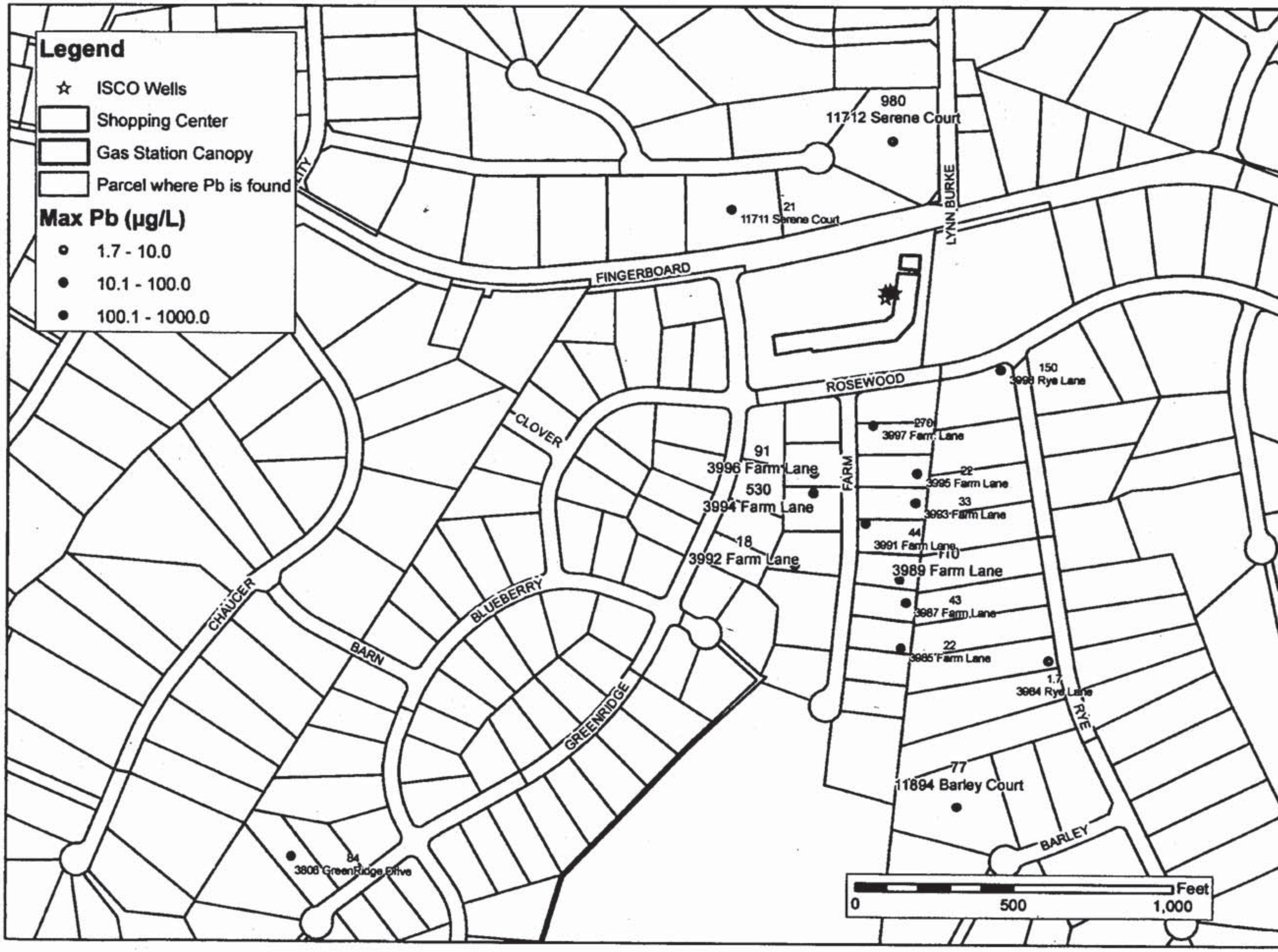

Figure 2 Results of Lead Analyses at Residences

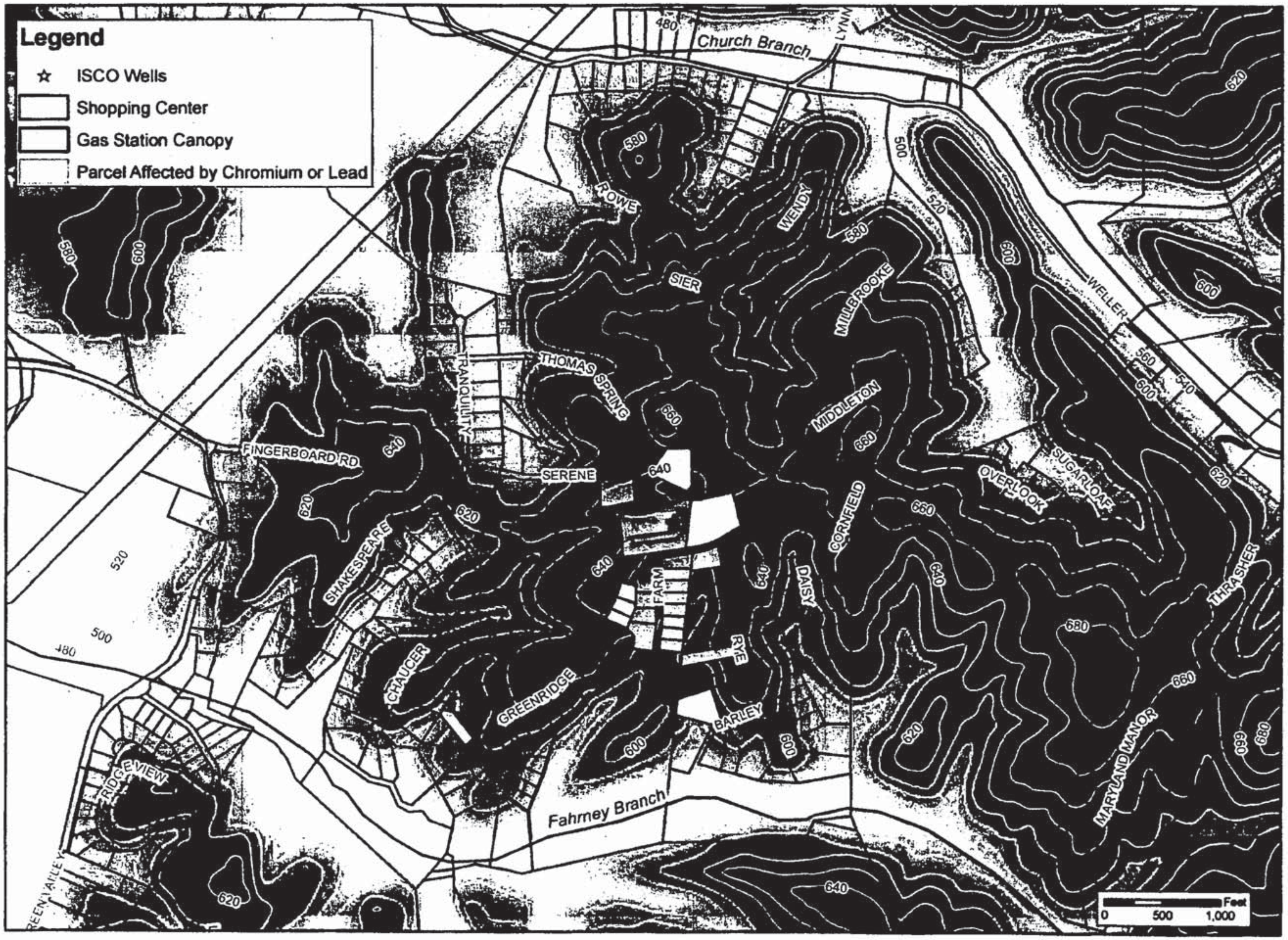

Figure 3 Location of Parcels Affected by Chromium and or Lead, and Location of Nearest Perennial Discharge Features - Fahrney Branch and Church Branch

EPA United States Environmental Protection Agency

http://water.epa.gov/drink/info/lead/excerptfrom58.cfm

Water: Lead

You are here: Water » Drinking Water » Consumer Information » Lead » Preamble to the final rule of Lead and Copper

Preamble to the final rule of Lead and Copper

Excerpt from 58 FR 26479, June 7, 1991

a. *Action Level for Lead in School Drinking Water*. In January 1989, EPA published a manual, "Lead in School's Drinking Water" [updated in 1994] to assist school officials in identifying whether a school had a problem with lead in drinking water, the steps to reduce or eliminate this problem, and information on training personnel in sampling and remedial programs. As a part of this program, EPA recommended that schools collect 250 ml first-draw samples from water fountains and outlets and that the water fountains and/or outlets be taken out of service if the lead level exceeded 0.020 mg/L. The sample was designed to pinpoint specific fountains and outlets that required remediation (e.g. water cooler replacement).

As discussed above, the final rule establishes a lead action level of 0.015 mg/L at the 90th percentile. The action level in the final rule is based on 1 liter first-draw samples collected from numerous targeted sampling sites throughout a distribution system and is designed to identify system-wide problems and not problems in single outlets. This is quite different from the sampling conducted in schools where EPA is concerned with locating individual outlets that require remediation. The school sampling protocol maximizes the likelihood that the highest concentrations of lead are found because the first 250 ml are analyzed for lead after overnight stagnation (usually much longer that the 6 hour minimum specified for this regulation).
Consequently, the two lead action levels differ because of the different problems they seek to detect and the different monitoring protocols used in the two situations.

EPA continues to recommend that schoolstake action at individual outlets with lead levels greater than 0.020 mg/L. EPA will make an effort to ensure that schools, laboratories, states, and consumers understand the distinction between the action level under the rule and the that applicable to public schools.

Last updated on Tuesday, October 04, 2011

CGS Chesapeake GeoSciences, Inc.

5405 Twin Knolls Road, Suite 1 • Columbia, MD 21045 • ph: 410.740.1911 • fax: 410.740.3299 • www.cgs.us.com

December 7, 2012

Mr. Christopher Ralston
Oil Control Program
Maryland Department of Environment
1800 Washington Blvd.
Baltimore, Maryland 21230

RE: Domestic Well Water Sampling
Former Green Valley Citgo (11712 Serene Court)
Monrovia, Frederick Co., MD 21770
MDE Case No. **2005-0834FR**
Remedial Management Services Contract
CGS Proposal No. CG-P12-1495r

Dear Mr. Ralston:

Chesapeake GeoSciences, Inc. (CGS) is pleased to present this Work Plan and cost proposal to sample water from the domestic supply well located at 11712 Serene Court. This property is located across Fingerboard Road (MD Route 80) from the former Green Valley Citgo at 11791 Fingerboard Rd., Monrovia, Frederick County, Maryland (Site)

I. Background Information

During recent water sampling conducted at properties near the Site, relatively high levels of total and dissolved lead were detected in the water samples collected at the residential property located at 11712 Serene Court.

II. Purpose and Goal

The purpose of the proposed work is to collect multiple water samples at the pressure tank inside the residence and from the domestic supply well at various depths and under varying conditions in effort to gain additional information regarding the source of the lead concentrations as they relate to the local aquifer.

III. Work Plan

The work tasks included in this Work Plan are detailed below. CGS assumes that access to the property will be provided by the Maryland Department of the Environment, Oil Control Program (MDE-OCP).

Task 1: Plan Development

CGS has developed this Work Plan and cost proposal based upon discussions during our December 5, 2012 project meeting and through follow-up correspondence.

Task 2: Day 1 - Sample Collection at Pressure Tank

CGS will mobilize to the residence in order to collect water samples from the pressure tank drain valve at the residence using the following procedure.

- CGS will collect a trip blank prior to mobilizing to the property.
- The amount of time since the last water usage at the residence will be recorded and the electric supply to the submersible pump will be turned off.
- The in-line valve located immediately upstream of the sediment filter will be closed.
- The drain valve located at the bottom of the pressure tank will be opened and a water sample will be collected.
- The remaining water will be drained from the pressure tank to the extent possible using a hose and low-profile containers (the pressure-relief button on the sediment filter may be used to break any vacuum effect while draining the pressure tank).
- The volume and observable quality of drained water will be recorded.
- The submersible pump electric supply will be turned back on and the pressure tank will be filled until normal operating pressure is attained.
- The pressure tank sample collection, draining, and refilling procedure will be repeated until a total of three (3) water samples have been collected.
- A field blank will be collected.
- The submersible pump will be returned to normal service, the in-line valve located upstream of the sediment filter will be opened, and water will be purged from various taps in the residence to purge any air and/or sediment from the piping.

The water samples will be delivered to Phase Separation Science, Inc. for volatile organic compound (VOC) analyses and to Enviro-Chem Laboratories, Inc. for total and dissolved inorganic analyses of select metals. Samples will be delivered to the laboratories on the date of collection or the next business-morning following sample collection. Field filtering for dissolved metals analyses and field measurement of pH, temperature, and oxidation-reduction potential (ORP) will be completed by CGS personnel. Copies of field sampling documentation, photographic documentation, chains-of-custody, and laboratory reports will be electronically forwarded to MDE. A formal report will not be prepared.

Task 3: Day 2 - Sample Collection at Supply Well

CGS will mobilize to the residence in order to collect water samples from the supply well using the following procedure.

- CGS will collect a trip blank prior to mobilization.

- Upon arrival at the property, the amount of time since the last water usage at the residence will be recorded, and the electric supply to the submersible pump will be turned off.
- An attempt to gauge the water level in the well using a decontaminated electronic water level meter will be made and the water level recorded.
- The electric wiring at the well head will be disconnected by Maryland Water Conditioning (dba Water Doctor) personnel. Water Doctor personnel hold State of Maryland Master Plumber Licenses and Water Conditioning Installers Licenses and are also licensed State of Maryland Water Treatment Plant Operators and Superintendents.
- The submersible pump, discharge line, and electric wire will be removed from the well by Water Doctor personnel. The water level in the well will be re-gauged and the depth to the bottom of well will be measured using the water level meter and recorded. The depth that the submersible pump was set will be determined by measuring the length of the discharge line.
- The well will be allowed to stabilize for ~30 minutes and the water level will again be gauged.
- Water Doctor personnel will inspect the well casing, pitless adaptor, submersible pump, discharge pipe, and electric wiring for signs of unusual wear and/or deterioration and make recommendations for any equipment replacement.
- CGS personnel will collect discrete interval water samples using HydraSleeve sample collection devices from the following depths:
    - The fracture zone reported on driller's well completion report (~70-75')
    - Every 100' thereafter (175-180', 275-280', and 375-380').
- After completion of the discrete-interval sampling, CGS personnel will collect an equipment rinse blank from a previously-decontaminated CGS test pump.
- CGS and Water Doctor personnel will install the CGS test pump to a total depth within five (5) feet of measured well bottom.
- The CGS test pump will be energized using a portable generator and the purge water discharge stream will be directed to the roadside drainage culvert along Fingerboard Road. The discharge flow rate will be calculated by measuring the time required to fill a five-gallon bucket and recorded (additional flow rate measurements will be made every 20-30 minutes, thereafter).
- A water sample will be collected from the CGS test pump discharge stream after purging the volume of water calculated to be within the pump discharge line (using 0.041 gallon per foot of one-inch diameter discharge line).
- A second water sample will be collected from the CGS test pump discharge stream after purging one and one-half (1½) times the calculated volume of water in the well (using 1.5 gallons per foot of water column). A duplicate sample will also be collected at this time.
- A third water sample will be collected from the CGS test pump discharge stream after purging three (3) times the calculated volume of water in the well.
- The CGS test pump will be turned off and removed from the well.
- The residential supply submersible pump will be re-installed into the well (after MDE-approved replacement of any worn or unacceptable components, parts, pipe, electric wiring, etc.) by Water Doctor personnel.

- Water doctor personnel will chlorinate the domestic supply well per customary standards (it is anticipated that the residents may not be able to use the well water for drinking, cooking, bathing, or laundry for up to three days following chlorination of the well, though 24 to 48 hours is typical).
- After chlorination, the residents will be given instructions regarding flushing water from the well. The residents will also be given chlorine test kits to use to monitor the residual chlorine levels in the water until acceptable levels are attained.

Samples will be delivered to Phase Separation Science, Inc. for VOC analyses and to Enviro-Chem Laboratories, Inc. for total and dissolved inorganic analyses of select metals. Samples will be delivered to the laboratories on the date of collection or the next business-morning following sample collection. Field filtering for dissolved metals analyses and field measurement of pH, temperature, and oxidation-reduction potential (ORP) will be completed by CGS personnel. Copies of field sampling documentation, photographic documentation, chains-of-custody, and laboratory reports will be electronically forwarded to MDE. A formal report will not be prepared.

Task 4: Laboratory Analysis

The water samples and blanks will be submitted to the laboratories for analysis of total and dissolved lead via U.S. EPA Method 200.8, total and dissolved chromium via U.S. EPA Method 200.8, hexavalent chromium via U.S. EPA Method 218.7, and for VOCs via U.S. EPA Method 524.2. Trip blanks will be analyzed for VOCs only. Water samples will be analyzed within the allowable holding times for the analytical methods. Laboratory analytical reports (in .pdf format) for each set of samples submitted will be forwarded electronically to MDE within 10 business-days of delivery of the samples to the laboratories.

Potential Problems and Solutions

There is the possibility that CGS's water sampling and pumping equipment may fail during the execution of the tasks included herein. In order to minimize this possibility, the calibration of all sampling, testing, and pumping equipment will be completed, and the proper operation of all equipment will be verified and in advance of mobilizing to the property. CGS has included a contingency to replace any of the existing residential well pumping system components that may be required after removal and inspection, and these replacement components will be made readily available on the date of the well testing. CGS does not anticipate encountering any other problems that may prevent completion of the tasks listed herein.

IV. Resources Utilized

The CGS Project Manager assigned to implement the Work Plan is Mr. Sean Daniel. The secondary contact for this project is Ms. Nancy Love. Matthew Emery will lead the field sampling effort with assistance from other CGS staff.

CGS will utilize the following subcontractors:

- Maryland Water Conditioning (dba Water Doctor) – Plumbing/Well Pump Services
- Phase Separation Science, Inc. – Laboratory Analytical Services
- Enviro-Chem Laboratories, Inc. – Laboratory Analytical Services

V. Schedule of Activities

The sampling events are anticipated to be conducted in early- to mid-January. Analytical results will be available within two weeks following delivery of the samples to the laboratories.

VI. Compensation

The cost spreadsheet provides detailed budgets for each proposed work task included in the Work Plan. The total cost for work performed under this proposal is **$16,668.81**. CGS intends to bill MDE-OCP under our fixed-fee Contract as work is completed.

VII. Authorization

All work will be conducted in accordance with the Remedial Management Services Contract Terms and Conditions. If the proposal is acceptable, please provide us with signed authorization and a Purchase Order. Signed authorization or a Purchase Order is required for project activation and scheduling.

CGS is pleased to have had the opportunity to prepare this proposal for the Maryland Department of the Environment. If there are any questions, please feel free to contact our office in Columbia, Maryland at 410-740-1911. Our facsimile number is 410-740-3299.

Sincerely,
Chesapeake GeoSciences, Inc.

Sean P. Daniel
Operations Manager

cc: Andrew Miller, MDE-OCP
Paul Certeza, MDE-OCP
Proposal File

Task 1: Work Plan Development

Item	Quantity	Unit	Unit Rate	Cost	C/NC	MBE	Note
Year5/PL4	15	hour	$80.60	$1,209.00	C		Proposal Prep./Project Meeting/Set-up
Year5/PL1	8	hour	$51.88	$415.04	C		Proposal Prep./Project Meeting
Vehicle, Truck or Rental	0.5	daily	$55.00	$27.50	C		
Vehicle, Mileage	32	mile	$0.505	$16.16	C		Roundtrip via MapQuest
			Subtotal Task Contract (C) Line Items	$1,667.70			
			Subtotal Task Non-Contract (NC) Line Items	$0.00			
			Task 1 - Total	**$1,667.70**			

Task 2: Day 1 - Sample Collection at Pressure Tank

Item	Quantity	Unit	Unit Rate	Cost	C/NC	MBE	Note
Year5/PL4	8	hour	$80.60	$644.80	C		PM/Site Visit/Data Mgmt.
Year5/PL1	16	hour	$51.88	$830.08	C		Prep./Sample Collection & Lab Deliveries
Cell Phone	1	daily	$7.50	$7.50	C		
Vehicle, Truck or Rental	1	daily	$55.00	$55.00	C		
Vehicle, Mileage	114	mile	$0.505	$57.57	C		Roundtrip via MapQuest + Lab Deliveries
Gloves, Nitrile inner (4 Mil)	1	Box (50 per box)	$15.00	$15.00	C		
pH/Conductivity/Temperature Meter	1	daily	$35.00	$35.00	C		
			Subtotal Task Contract (C) Line Items	$1,644.95			
			Subtotal Task Non-Contract (NC) Line Items	$0.00			
			Task 2 - Total	**$1,644.95**			

Task 3: Day 2 - Sample Collection at Supply Well

Item	Quantity	Unit	Unit Rate	Cost	C/NC	MBE	Note
Year5/PL4	15	hour	$80.60	$1,209.00	C		PM/Site Visit/Data Mgmt.
Year5/PL1	28	hour	$51.88	$1,452.64	C		Prep./Sample Collection & Lab Deliveries
Cell Phone	1	daily	$7.50	$7.50	C		
Vehicle, Truck or Rental	1.5	daily	$55.00	$82.50	C		Sample Collection + Lab Deliveries
Vehicle, Mileage	114	mile	$0.505	$57.57	C		Roundtrip via MapQuest + Lab Deliveries
Gloves, Nitrile inner (4 Mil)	1	Box (50 per box)	$15.00	$15.00	C		
Water Level Recorder foot & tenth increments	1	daily	$25.00	$25.00	C		
pH/Conductivity/Temperature Meter	1	daily	$35.00	$35.00	C		
Generator, 15 kW 120/240v (Single Phase)	1	daily	$75.00	$75.00	C		
Standard 4" HydraSleeve Sampler	4	each	$31.80	$127.20	NC		
HydraSleeve 4" Spring Clip	3	each	$6.50	$19.50	NC		
HydraSleeve Weight Clip	4	each	$1.25	$5.00	NC		

HydraSleeve Bottom Weight & Clip	2	each	$25.50	$51.00	NC		
Graduated 1/4-inch Tether (1,000' Roll)	1	each	$127.20	$127.20	NC		
4"-Diam. Electric Submersible Env.-Duty Well Pump	1	daily	$50.00	$50.00	NC		CGS Test Pump
1" Coil Pipe	500	foot	$0.45	$225.00	NC		
Water Treatment Equipment Service, Water Doctor	20	hour	$140.00	$2,800.00	NC		Two Person Crew up to 10-Hour Day
Submersible Pump/Components Replacement	1	lump sum	$1,500.00	$1,500.00	NC		Billed at Cost + 12%
			Subtotal Task Contract (C) Line Items	$2,959.21			
			Subtotal Task Non-Contract (NC) Line Items	$4,904.90			
			Task 3 - Total	**$7,864.11**			

Task 4: Laboratory Analysis of Water Samples

Item	Quantity	Unit	Unit Rate	Cost	C/NC	MBE	Note
Volatile Organic Compounds [524.2 (Drinking Water)]	13	each	$121.00	$1,573.00	C		Water Samples, Dupe, Field & Equipment Blanks
Volatile Organic Compounds [524.2 (Drinking Water)]	2	each	$121.00	$242.00	C		Trip Blanks
Total Lead [200.8 Analysis] (Drinking Water)	13	each	$36.00	$468.00	NC		Water Samples, Dupe, Field & Equipment Blanks
Dissolved Lead [200.8 Analysis] (Drinking Water)	13	each	$36.00	$468.00	NC		Water Samples, Dupe, Field & Equipment Blanks
Total Chromium [200.8 (Drinking Water Supply)]	13	each	$36.00	$468.00	NC		Water Samples, Dupe, Field & Equipment Blanks
Dissolved Chromium [200.8 (Drinking Water Supply)]	13	each	$36.00	$468.00	NC		Water Samples, Dupe, Field & Equipment Blanks
Hexavalent Chromium [218.7 (Drinking Water Supply)]	13	each	$115.00	$1,495.00	NC		Water Samples, Dupe, Field & Equipment Blanks
Thermo Scientific Disposable 0.45-micron Sterile Filter Unit	13	each	$23.85	$310.05	NC		Water Samples, Dupe, Field & Equipment Blanks
			Subtotal Task Contract (C) Line Items	$1,815.00			
			Subtotal Task Non-Contract (NC) Line Items	$3,677.05			
			Task 4 - Total	**$5,492.05**			

Estimated Project Total **$16,668.81**

Chesapeake GeoSciences, Inc.
PROPOSAL ACCEPTANCE AGREEMENT

Proposal Title: Domestic Well Water Sampling
Project: **Former Green Valley Citgo (11712 Serene Ct.), Monrovia, MD**
Proposal Number and Date: **CG-P12-1495r** December 7, 2012

FOR APPROVAL AND PAYMENT OF CHARGES:

Invoices will be charged and mailed to the following account.

Client:	Maryland Department of the Environment
Address:	1800 Washington Blvd. Baltimore, Maryland 21230
Attention:	Mr. Christopher Ralston
Office Phone:	(410) 537-3470 Fax Number: (410) 537-3472

THIS AGREEMENT IS ACCEPTED BY:

Acknowledgement of the Terms & Conditions

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Client

____

By (Signature) Title

____

By (Type/Print) Date Accepted

PAYMENT TERMS: Payable Within 30 Days Upon Receipt of Invoice

This AGREEMENT, together with the proposal and the Remedial Management Services Contract Terms and Conditions, constitute the entire agreement between the Client and CGS and supersedes all prior written or oral understandings.