PAT MCCRORY
Governor

DONALD R. VAN DER VART
Secretary

MICHAEL SCOTT
Director

MEMORANDUM

TO: David Lilley, Industrial Hygiene Consultant
Division of Waste Management, Green Square Office Complex

FROM: George Adams, Engineer /s/ ***gda***
Superfund Section, Inactive Hazardous Sites Branch, Mooresville Regional Office

DATE: May 9, 2016

RE: **Health Risk Evaluation Request (revised)**
Water-Supply Well (WSW-41 ATSW)
12300 Moores Chapel Road
Charlotte, Mecklenburg, North Carolina
NONCD0001257

On March 8, 2016, Excel Civil & Environmental Associates, PLLC (Excel) collected a groundwater sample from a water-supply well at the location referenced above. The groundwater sample was submitted for laboratory analyses for select Volatile Organic Compounds (VOCs). A summary of analytical results from the March 8, 2016 sampling event as reported by Excel appears in the following table.

				Constituent (µg/L)			
Lab Sample Number	**Sample ID**	**Location**	**Date Sampled**	**Acetone**	**PCE**	**1,4-Dioxane**	**Toluene**
L822260-01/02	WSW-41 ATSW	12300 Moores Chapel Road	3/8/16	5.67 J	0.206 J	2.66 J	0.150 J

J = Estimated Concentration
PCE = Tetrachloroethene
µg/L = micrograms / Liter (~parts per billion)

Enclosed is the part of the laboratory report of the groundwater sample analyses. The IHSB requests a Health Risk Evaluation (HRE) for the sample collected from the water-supply well identified as **WSW-41 ATSW** (L822260-01/02). If you have questions or need additional information, please contact the Mooresville Regional Office's IHSB at (704) 663-1699.

Enclosure

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	5.67	J	1.05	25.0	1	03/12/2016 13:25	WG855746
Benzene	U		0.0896	0.500	1	03/12/2016 13:25	WG855746
Carbon tetrachloride	U		0.159	0.500	1	03/12/2016 13:25	WG855746
Chlorobenzene	U		0.140	0.500	1	03/12/2016 13:25	WG855746
Chloroethane	U		0.141	0.500	1	03/12/2016 13:25	WG855746
Chloroform	U		0.0860	0.500	1	03/12/2016 13:25	WG855746
Chloromethane	U		0.153	0.500	1	03/12/2016 13:25	WG855746
1,1-Dichloroethane	U		0.114	0.500	1	03/12/2016 13:25	WG855746
1,2-Dichloroethane	U		0.108	0.500	1	03/12/2016 13:25	WG855746
1,1-Dichloroethene	U		0.188	0.500	1	03/12/2016 13:25	WG855746
cis-1,2-Dichloroethene	U		0.0933	0.500	1	03/12/2016 13:25	WG855746
trans-1,2-Dichloroethene	U		0.152	0.500	1	03/12/2016 13:25	WG855746
1,2-Dichloropropane	U		0.190	0.500	1	03/12/2016 13:25	WG855746
Ethylbenzene	U		0.158	0.500	1	03/12/2016 13:25	WG855746
1,2-Dibromoethane	U		0.193	0.500	1	03/12/2016 13:25	WG855746
Methylene Chloride	U		1.07	2.50	1	03/12/2016 13:25	WG855746
Tetrachloroethene	0.206	J	0.199	0.500	1	03/12/2016 13:25	WG855746
1,1,1-Trichloroethane	U		0.0940	0.500	1	03/12/2016 13:25	WG855746
1,1,2-Trichloroethane	U		0.186	0.500	1	03/12/2016 13:25	WG855746
Trichloroethene	U		0.153	0.500	1	03/12/2016 13:25	WG855746
Trichlorofluoromethane	U		0.130	0.500	1	03/12/2016 13:25	WG855746
Toluene	0.150	J	0.102	0.500	1	03/12/2016 13:25	WG855746
Vinyl chloride	U		0.118	0.500	1	03/12/2016 13:25	WG855746
Xylenes, Total	U		0.316	1.50	1	03/12/2016 13:25	WG855746
(S) Toluene-d8	*97.6*			*90.0-115*		*03/12/2016 13:25*	WG855746
(S) Dibromofluoromethane	*100*			*79.0-121*		*03/12/2016 13:25*	WG855746
(S) 4-Bromofluorobenzene	*99.4*			*80.1-120*		*03/12/2016 13:25*	WG855746

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	2.66	J	0.597	3.00	1	03/12/2016 07:13	WG855252
(S) Toluene-d8	*105*			*70.0-130*		*03/12/2016 07:13*	WG855252

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TO: David Lilley, Industrial Hygiene Consultant
Division of Waste Management, Green Square Office Complex

FROM: George Adams, Engineer /s/ ***gda***
Superfund Section, Inactive Hazardous Sites Branch, Mooresville Regional Office

DATE: May 6, 2016

RE: **Health Risk Evaluation Request**
Water-Supply Well (WSW-41 ATSW)
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Charlotte, Mecklenburg, North Carolina
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				Constituent (µg/L)			
Lab Sample Number	**Sample ID**	**Location**	**Date Sampled**	**Acetone$_3$**	**PCE**	**1,4-Dioxane**	**Toluene**
L822260-01	WSW-41 ATSW	12300 Moores Chapel Road	3/8/16	5.67 J	2.06 J	2.66 J	1.50 J

J = Estimated Concentration
PCE = Tetrachloroethene
µg/L = micrograms / Liter (~parts per billion)

Enclosed is the part of the laboratory report of the groundwater sample analyses. The IHSB requests a Health Risk Evaluation (HRE) for the samples collected from water-supply well identified as **WSW-41 ATSW** (L822260-01). If you have questions or need additional information, please contact the Mooresville Regional Office's IHSB at (704) 663-1699.

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