



North Carolina Department of Environment and Natural Resources  
Division of Waste Management

Pat McCrory  
Governor

John E. Skvarla, III  
Secretary

August 26, 2014

Larry and Judy White  
P.O. Box 385  
Stoneville, NC 27048

RE: Water Supply Well Sampling Results – Taylor Rd Wells (NONCD0002879)  
190 GSI Drive and 191 GSI Drive  
Stoneville, NC 27048

Dear Mr. and Ms. White:

Please find attached the Sample Analytical Results for water samples collected from your wells located at the address referenced above, on July 24, 2014. The samples were submitted for laboratory analyses for Volatile Organic Compounds (VOCs) and metals. VOCs and metals were detected in the water samples as shown on the attached sheets.

Because one or more contaminants were detected in the water sample, a Health Risk Evaluation (HRE) of the water supply was performed by our toxicologist. The HRE, which is enclosed, compares the concentration of detected contaminants to acceptable concentrations and provides a recommendation for acceptable uses of the water.

If you have any questions regarding the Health Risk Evaluation, please contact Hanna Assefa at (919) 707-8351 or me at (919) 707-8353.

Sincerely,

*Vincent Antrilli, Jr.*

Vincent Antrilli, Jr.  
Environmental Specialist  
Inactive Hazardous Sites Branch  
Superfund Section

Enclosure

CC: Rockingham County Health Department

August 25, 2014

**MEMORANDUM**

**TO:** Vince Antrilli  
Inactive Hazardous Sites Branch  
Superfund Section

**FROM:** Hanna Assefa, Industrial Hygiene Consultant *HA*  
Inactive Hazardous Sites Branch  
Superfund Section

**RE:** Health Risk Evaluation  
Taylor Road Wells  
190 GSI Drive  
Stoneville, Rockingham County  
NONCD 000 2879

A water sample was collected from the subject well on July 24, 2014. The concentration of all contaminants detected in the water sample is below applicable standards. The standards used to determine if the water is suitable for drinking and cooking are the federal drinking water standards (USEPA MCL), or where there is no MCL, the health based North Carolina Groundwater Quality Standard (15A NCAC 2L)/ Interim Standard (IMAC). If both the USEPA MCL and health- based North Carolina 2L/IMAC are not available, a health-based concentration is calculated.

If contaminant concentrations exceed the applicable standards for using the water for drinking and cooking, the contaminant concentrations are further analyzed to determine if the water is suitable for other household uses, such as showering, bathing, washing dishes, flushing toilets, and hand washing. **Therefore, based on this evaluation, the water from this can be used for drinking, cooking and all other purposes listed above.** The table below compares detected contaminant concentrations with the applicable standards:

Sample #	Contaminant	Concentration (ug/L)	US EPA MCL (ug/L)	NC 2L (ug/L)	Calculated Health Based Concentration (ug/l)
PG25011-002	Methyl tertiary butyl ether	3	*	20	**
	Copper	8.2	1,300	**	**
	Iron	340	*	**	2,500

\*\* Not Applicable

ug/L= Micrograms of contaminant per liter of water.

August 27, 2014

**MEMORANDUM**

**TO:** Vince Antrilli  
Inactive Hazardous Sites Branch  
Superfund Section

**FROM:** Hanna Assefa, Industrial Hygiene Consultant *HA*  
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Sample #	Contaminant	Concentration (ug/L)	US EPA MCL (ug/L)	NC 2L (ug/L)	Calculated Health Based Concentration (ug/l)
PG25011-003	Barium	110	2,000	**	**
	Copper	100	1,300	**	**
	Zinc	130	*	1,000	**

\*\* Not Applicable

ug/L= Micrograms of contaminant per liter of water.

# Volatile Organic Compounds by GC/MS

Client: **NCDENR - DWM - DSCA**

Laboratory ID: **PG25011-002**

Description: **190 GSI**

Matrix: **Aqueous**

Date Sampled: **07/24/2014 0942**

Date Received: **07/25/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/04/2014 1745	PMM2		53224

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		10	ug/L	1
Benzene	71-43-2	8260B	ND		0.50	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		0.50	ug/L	1
Bromoform	75-25-2	8260B	ND		0.50	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		0.50	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		0.50	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		0.50	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		0.50	ug/L	1
Chloroethane	75-00-3	8260B	ND		0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		0.50	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		0.50	ug/L	1
Cyclohexane	110-82-7	8260B	ND		0.50	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		0.50	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		0.50	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		0.50	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		0.50	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		0.50	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		0.50	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		0.50	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		0.50	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		0.50	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		0.50	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		0.50	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		0.50	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		0.50	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		0.50	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		0.50	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		0.50	ug/L	1
Methyl acetate	79-20-9	8260B	ND		1.0	ug/L	1
<b>Methyl tertiary butyl ether (MTBE)</b>	<b>1634-04-4</b>	<b>8260B</b>	<b>3.0</b>		<b>0.50</b>	<b>ug/L</b>	<b>1</b>
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		0.50	ug/L	1
Styrene	100-42-5	8260B	ND		0.50	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		0.50	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		0.50	ug/L	1
Toluene	108-88-3	8260B	ND		0.50	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		0.50	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		0.50	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		0.50	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		0.50	ug/L	1

PQL = Practical quantitation limit      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      H = Out of holding time  
 ND = Not detected at or above the PQL      J = Estimated result < PQL and ≥ MDL      P = The RPD between two GC columns exceeds 40%      N = Recovery is out of criteria  
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

## Volatile Organic Compounds by GC/MS

Client: <b>NCDENR - DWM - DSCA</b>	Laboratory ID: <b>PG25011-002</b>
Description: <b>190 GSI</b>	Matrix: <b>Aqueous</b>
Date Sampled: <b>07/24/2014 0942</b>	
Date Received: <b>07/25/2014</b>	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/04/2014 1745	PMM2		53224

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Trichloroethene	79-01-6	8260B	ND		0.50	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		0.50	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		96	70-130
Bromofluorobenzene		103	70-130
Toluene-d8		95	70-130

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 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

# TAL Metals

Client: **NCDENR - DWM - DSCA**

Laboratory ID: **PG25011-002**

Description: **190 GSI**

Matrix: **Aqueous**

Date Sampled: **07/24/2014 0942**

Date Received: **07/25/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	07/30/2014 1651	COH	07/30/2014 0924	52693
1	3005A	6010C	1	07/30/2014 0053	CDF	07/29/2014 1239	52591

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aluminum	7429-90-5	6010C	ND		0.20	mg/L	1
Arsenic	7440-38-2	6010C	ND		0.010	mg/L	1
Barium	7440-39-3	6010C	ND		0.025	mg/L	1
Cadmium	7440-43-9	6010C	ND		0.0020	mg/L	1
Chromium	7440-47-3	6010C	ND		0.0050	mg/L	1
<b>Copper</b>	<b>7440-50-8</b>	<b>6010C</b>	<b>0.0082</b>		<b>0.0050</b>	<b>mg/L</b>	<b>1</b>
<b>Iron</b>	<b>7439-89-6</b>	<b>6010C</b>	<b>0.34</b>		<b>0.10</b>	<b>mg/L</b>	<b>1</b>
Lead	7439-92-1	6010C	ND		0.010	mg/L	1
Magnesium	7439-95-4	6010C	ND		5.0	mg/L	1
Manganese	7439-96-5	6010C	ND		0.015	mg/L	1
Mercury	7439-97-6	7470A	ND		0.00010	mg/L	1
Nickel	7440-02-0	6010C	ND		0.040	mg/L	1
Silver	7440-22-4	6010C	ND		0.0050	mg/L	1
Zinc	7440-66-6	6010C	ND		0.020	mg/L	1

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# Volatile Organic Compounds by GC/MS

Client: **NCDENR - DWM - DSCA**

Laboratory ID: **PG25011-003**

Description: **191 GSI**

Matrix: **Aqueous**

Date Sampled: **07/24/2014 1005**

Date Received: **07/25/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/04/2014 1809	PMM2		53224

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		10	ug/L	1
Benzene	71-43-2	8260B	ND		0.50	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		0.50	ug/L	1
Bromoform	75-25-2	8260B	ND		0.50	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		0.50	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		0.50	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		0.50	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		0.50	ug/L	1
Chloroethane	75-00-3	8260B	ND		0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		0.50	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		0.50	ug/L	1
Cyclohexane	110-82-7	8260B	ND		0.50	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		0.50	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		0.50	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		0.50	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		0.50	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		0.50	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		0.50	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		0.50	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		0.50	ug/L	1
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1,1-Dichloroethene	75-35-4	8260B	ND		0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		0.50	ug/L	1
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Ethylbenzene	100-41-4	8260B	ND		0.50	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		0.50	ug/L	1
Methyl acetate	79-20-9	8260B	ND		1.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		0.50	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
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Description: <b>191 GSI</b>	Matrix: <b>Aqueous</b>
Date Sampled: <b>07/24/2014 1005</b>	
Date Received: <b>07/25/2014</b>	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/04/2014 1809	PMM2		53224

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
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Trichlorofluoromethane	75-69-4	8260B	ND		0.50	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		100	70-130
Bromofluorobenzene		101	70-130
Toluene-d8		97	70-130

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## TAL Metals

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Laboratory ID: **PG25011-003**

Description: **191 GSI**

Matrix: **Aqueous**

Date Sampled: **07/24/2014 1005**

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Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
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Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
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Arsenic	7440-38-2	6010C	ND		0.010	mg/L	1
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Iron	7439-89-6	6010C	ND		0.10	mg/L	1
Lead	7439-92-1	6010C	ND		0.010	mg/L	1
Magnesium	7439-95-4	6010C	ND		5.0	mg/L	1
Manganese	7439-96-5	6010C	ND		0.015	mg/L	1
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Silver	7440-22-4	6010C	ND		0.0050	mg/L	1
Zinc	<b>7440-66-6</b>	<b>6010C</b>	<b>0.13</b>		<b>0.020</b>	<b>mg/L</b>	<b>1</b>

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North Carolina Department of Environment and Natural Resources  
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August 26, 2014

Susan Scales  
208 Belthrop Road  
Stoneville, NC 27048

RE: Water Supply Well Sampling Results – Taylor Rd Wells (NONCD0002879)  
208 Belthrop Road  
Stoneville, NC 27048

Dear Ms. Scales:

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If you have any questions regarding the Health Risk Evaluation, please contact Hanna Assefa at (919) 707-8351 or me at (919) 707-8353.

Sincerely,

*Vincent Antrilli, Jr.*

Vincent Antrilli, Jr.  
Environmental Specialist  
Inactive Hazardous Sites Branch  
Superfund Section

Enclosure

CC: Rockingham County Health Department

August 27, 2014

**MEMORANDUM**

**TO:** Vince Antrilli  
Inactive Hazardous Sites Branch  
Superfund Section

**FROM:** Hanna Assefa, Industrial Hygiene Consultant *HA*  
Inactive Hazardous Sites Branch  
Superfund Section

**RE:** Health Risk Evaluation  
Taylor Road Wells  
208 Belthrop Road  
Stoneville, Rockingham County  
NONCD 000 2879

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If contaminant concentrations exceed the applicable standards for using the water for drinking and cooking, the contaminant concentrations are further analyzed to determine if the water is suitable for other household uses, such as showering, bathing, washing dishes, flushing toilets, and hand washing. **Therefore, based on this evaluation, the water from this can be used for drinking, cooking and all other purposes listed above. Magnesium is an essential nutrient.** The table below compares detected contaminant concentrations with the applicable standards:

Sample #	Contaminant	Concentration (ug/L)	US EPA MCL (ug/L)	NC 2L (ug/L)
PG25011-004	Methyl tertiary butyl ether	0.5	*	20
	Tetrachloroethylene	1.6	5	**
	Barium	41	2,000	20
	Copper	40	1,300	**
	Magnesium	5,000	*	*
	Zinc	190	*	1,000

\*Not Available

\*\* Not Applicable

ug/L= Micrograms of contaminant per liter of water.

## Volatile Organic Compounds by GC/MS

Client: NCDENR - DWM - DSCA

Laboratory ID: PG25011-004

Description: 208 BELTHROP

Matrix: Aqueous

Date Sampled: 07/24/2014 1040

Date Received: 07/25/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/04/2014 1833	PMM2		53224

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		10	ug/L	1
Benzene	71-43-2	8260B	ND		0.50	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		0.50	ug/L	1
Bromoform	75-25-2	8260B	ND		0.50	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		0.50	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		0.50	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		0.50	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		0.50	ug/L	1
Chloroethane	75-00-3	8260B	ND		0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		0.50	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		0.50	ug/L	1
Cyclohexane	110-82-7	8260B	ND		0.50	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		0.50	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		0.50	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		0.50	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		0.50	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		0.50	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		0.50	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		0.50	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		0.50	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		0.50	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		0.50	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		0.50	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		0.50	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		0.50	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		0.50	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		0.50	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		0.50	ug/L	1
Methyl acetate	79-20-9	8260B	ND		1.0	ug/L	1
<b>Methyl tertiary butyl ether (MTBE)</b>	<b>1634-04-4</b>	<b>8260B</b>	<b>0.50</b>		<b>0.50</b>	<b>ug/L</b>	<b>1</b>
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		0.50	ug/L	1
Styrene	100-42-5	8260B	ND		0.50	ug/L	1
1,1,1,2-Tetrachloroethane	79-34-5	8260B	ND		0.50	ug/L	1
<b>Tetrachloroethene</b>	<b>127-18-4</b>	<b>8260B</b>	<b>1.6</b>		<b>0.50</b>	<b>ug/L</b>	<b>1</b>
Toluene	108-88-3	8260B	ND		0.50	ug/L	1
1,1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		0.50	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		0.50	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		0.50	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		0.50	ug/L	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the PQL

J = Estimated result &lt; PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

# Volatile Organic Compounds by GC/MS

Client: <b>NCDENR - DWM - DSCA</b>	Laboratory ID: <b>PG25011-004</b>
Description: <b>208 BELTHROP</b>	Matrix: <b>Aqueous</b>
Date Sampled: <b>07/24/2014 1040</b>	
Date Received: <b>07/25/2014</b>	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/04/2014 1833	PMM2		53224

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Trichloroethene	79-01-6	8260B	ND		0.50	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		0.50	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		98	70-130
Bromofluorobenzene		107	70-130
Toluene-d8		93	70-130

PQL = Practical quantitation limit      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      H = Out of holding time  
 ND = Not detected at or above the PQL      J = Estimated result < PQL and ≥ MDL      P = The RPD between two GC columns exceeds 40%      N = Recovery is out of criteria  
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

## TAL Metals

Client: **NCDENR - DWM - DSCA**

Laboratory ID: **PG25011-004**

Description: **208 BELTHROP**

Matrix: **Aqueous**

Date Sampled: **07/24/2014 1040**

Date Received: **07/25/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	07/30/2014 1656	COH	07/30/2014 0924	52693
1	3005A	6010C	1	07/30/2014 0101	CDF	07/29/2014 1239	52591

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aluminum	7429-90-5	6010C	ND		0.20	mg/L	1
Arsenic	7440-38-2	6010C	ND		0.010	mg/L	1
<b>Barium</b>	<b>7440-39-3</b>	<b>6010C</b>	<b>0.041</b>		<b>0.025</b>	<b>mg/L</b>	<b>1</b>
Cadmium	7440-43-9	6010C	ND		0.0020	mg/L	1
Chromium	7440-47-3	6010C	ND		0.0050	mg/L	1
<b>Copper</b>	<b>7440-50-8</b>	<b>6010C</b>	<b>0.040</b>		<b>0.0050</b>	<b>mg/L</b>	<b>1</b>
Iron	7439-89-6	6010C	ND		0.10	mg/L	1
Lead	7439-92-1	6010C	ND		0.010	mg/L	1
<b>Magnesium</b>	<b>7439-95-4</b>	<b>6010C</b>	<b>5.0</b>		<b>5.0</b>	<b>mg/L</b>	<b>1</b>
Manganese	7439-96-5	6010C	ND		0.015	mg/L	1
Mercury	7439-97-6	7470A	ND		0.00010	mg/L	1
Nickel	7440-02-0	6010C	ND		0.040	mg/L	1
Silver	7440-22-4	6010C	ND		0.0050	mg/L	1
Zinc	<b>7440-66-6</b>	<b>6010C</b>	<b>0.19</b>		<b>0.020</b>	<b>mg/L</b>	<b>1</b>

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the PQL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

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Level 1 Report v2.1



North Carolina Department of Environment and Natural Resources  
Division of Waste Management

Pat McCrory  
Governor

John E. Skvarla, III  
Secretary

August 26, 2014

Ray Tuggle  
722 Taylor Road  
Stoneville, NC 27048

RE: Water Supply Well Sampling Results – Taylor Rd Wells (NONCD0002879)  
722 Taylor Road  
Stoneville, NC 27048

Dear Mr. Tuggle:

Please find attached the Sample Analytical Results for water samples collected from your well located at the address referenced above, on July 24, 2014. The sample was submitted for laboratory analyses for Volatile Organic Compounds (VOCs) and metals. VOCs and metals were detected in the water sample as shown on the attached sheets.

Because one or more contaminants were detected in the water sample, a Health Risk Evaluation (HRE) of the water supply was performed by our toxicologist. The HRE, which is enclosed, compares the concentration of detected contaminants to acceptable concentrations and provides a recommendation for acceptable uses of the water.

If you have any questions regarding the Health Risk Evaluation, please contact Hanna Assefa at (919) 707-8351 or me at (919) 707-8353.

Sincerely,

*Vincent Antrilli, Jr.*

Vincent Antrilli, Jr.  
Environmental Specialist  
Inactive Hazardous Sites Branch  
Superfund Section

Enclosure

CC: Rockingham County Health Department

September 2, 2014

**MEMORANDUM**

**TO:** Vince Antrilli  
Inactive Hazardous Sites Branch  
Superfund Section

**FROM:** Hanna Assefa, Industrial Hygiene Consultant *HA*  
Inactive Hazardous Sites Branch  
Superfund Section

**RE:** Health Risk Evaluation  
Taylor Road Wells  
722 Taylor Road  
Stoneville, Rockingham County  
NONCD 000 2879

A water sample was collected from the subject well on July 24, 2014. The concentration of all contaminants detected in the water sample is below applicable standards. The standards used to determine if the water is suitable for drinking and cooking are the federal drinking water standards (USEPA MCL), or where there is no MCL, the health based North Carolina Groundwater Quality Standard (15A NCAC 2L)/ Interim Standard (IMAC). If both the USEPA MCL and health-based North Carolina 2L/IMAC are not available, a health-based concentration is calculated.

If contaminant concentrations exceed the applicable standards for using the water for drinking and cooking, the contaminant concentrations are further analyzed to determine if the water is suitable for other household uses, such as showering, bathing, washing dishes, flushing toilets, and hand washing. **Therefore, based on this evaluation, the water from this can be used for drinking, cooking and all other purposes listed above. Magnesium is an essential nutrient.** The table below compares detected contaminant concentrations with the applicable standards:

Sample #	Contaminant	Concentration (ug/L)	US EPA MCL (ug/L)	NC 2L (ug/L)	Calculated Health Based Concentration (ug/l)
PG25011-005	Cis-1,2-Dichloroethene	1.4	70		
	Barium	110	2,000	**	**
	Copper	12	1,300	**	**
	Magnesium	7,700	*	*	*
	Zinc	170	*	1,000	**

\*Not Available

\*\* Not Applicable

ug/L= Micrograms of contaminant per liter of water.

## Volatile Organic Compounds by GC/MS

 Client: **NCDENR - DWM - DSCA**

 Laboratory ID: **PG25011-005**

 Description: **722 TAYLOR**

 Matrix: **Aqueous**

 Date Sampled: **07/24/2014 1108**

 Date Received: **07/25/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/04/2014 1856	PMM2		53224

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		10	ug/L	1
Benzene	71-43-2	8260B	ND		0.50	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		0.50	ug/L	1
Bromoform	75-25-2	8260B	ND		0.50	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		0.50	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		0.50	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		0.50	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		0.50	ug/L	1
Chloroethane	75-00-3	8260B	ND		0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		0.50	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		0.50	ug/L	1
Cyclohexane	110-82-7	8260B	ND		0.50	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		0.50	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		0.50	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		0.50	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		0.50	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		0.50	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		0.50	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		0.50	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		0.50	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		0.50	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		0.50	ug/L	1
<b>cis-1,2-Dichloroethene</b>	<b>156-59-2</b>	<b>8260B</b>	<b>1.4</b>		<b>0.50</b>	<b>ug/L</b>	<b>1</b>
trans-1,2-Dichloroethene	156-60-5	8260B	ND		0.50	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		0.50	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		0.50	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		0.50	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		0.50	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		0.50	ug/L	1
Methyl acetate	79-20-9	8260B	ND		1.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		0.50	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		0.50	ug/L	1
Styrene	100-42-5	8260B	ND		0.50	ug/L	1
1,1,1,2-Tetrachloroethane	79-34-5	8260B	ND		0.50	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		0.50	ug/L	1
Toluene	108-88-3	8260B	ND		0.50	ug/L	1
1,1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		0.50	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		0.50	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		0.50	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		0.50	ug/L	1

PQL = Practical quantitation limit      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      H = Out of holding time  
 ND = Not detected at or above the PQL      J = Estimated result < PQL and ≥ MDL      P = The RPD between two GC columns exceeds 40%      N = Recovery is out of criteria  
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

## Volatile Organic Compounds by GC/MS

Client: <b>NCDENR - DWM - DSCA</b>	Laboratory ID: <b>PG25011-005</b>
Description: <b>722 TAYLOR</b>	Matrix: <b>Aqueous</b>
Date Sampled: <b>07/24/2014 1108</b>	
Date Received: <b>07/25/2014</b>	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/04/2014 1856	PMM2		53224

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Trichloroethene	79-01-6	8260B	ND		0.50	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		0.50	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		101	70-130
Bromofluorobenzene		98	70-130
Toluene-d8		100	70-130

PQL = Practical quantitation limit      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      H = Out of holding time  
 ND = Not detected at or above the PQL      J = Estimated result < PQL and ≥ MDL      P = The RPD between two GC columns exceeds 40%      N = Recovery is out of criteria  
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

## TAL Metals

Client: **NCDENR - DWM - DSCA**

Laboratory ID: **PG25011-005**

Description: **722 TAYLOR**

Matrix: **Aqueous**

Date Sampled: **07/24/2014 1108**

Date Received: **07/25/2014**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	07/30/2014 1658	COH	07/30/2014 0924	52693
1	3005A	6010C	1	07/30/2014 0105	CDF	07/29/2014 1239	52591

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aluminum	7429-90-5	6010C	ND		0.20	mg/L	1
Arsenic	7440-38-2	6010C	ND		0.010	mg/L	1
<b>Barium</b>	<b>7440-39-3</b>	<b>6010C</b>	<b>0.11</b>		<b>0.025</b>	<b>mg/L</b>	<b>1</b>
Cadmium	7440-43-9	6010C	ND		0.0020	mg/L	1
Chromium	7440-47-3	6010C	ND		0.0050	mg/L	1
<b>Copper</b>	<b>7440-50-8</b>	<b>6010C</b>	<b>0.012</b>		<b>0.0050</b>	<b>mg/L</b>	<b>1</b>
Iron	7439-89-6	6010C	ND		0.10	mg/L	1
Lead	7439-92-1	6010C	ND		0.010	mg/L	1
<b>Magnesium</b>	<b>7439-95-4</b>	<b>6010C</b>	<b>7.7</b>		<b>5.0</b>	<b>mg/L</b>	<b>1</b>
Manganese	7439-96-5	6010C	ND		0.015	mg/L	1
Mercury	7439-97-6	7470A	ND		0.00010	mg/L	1
Nickel	7440-02-0	6010C	ND		0.040	mg/L	1
Silver	7440-22-4	6010C	ND		0.0050	mg/L	1
Zinc	7440-66-6	6010C	0.17		0.020	mg/L	1

PQL = Practical quantitation limit      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      H = Out of holding time  
 ND = Not detected at or above the PQL      J = Estimated result < PQL and ≥ MDL      P = The RPD between two GC columns exceeds 40%      N = Recovery is out of criteria  
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

## Volatile Organic Compounds by GC/MS

Client: NCDENR - DWM - DSCA

Laboratory ID: PG25011-006

Description: 3014 US70E

Matrix: Aqueous

Date Sampled: 07/24/2014 1332

Date Received: 07/25/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/04/2014 1919	PMM2		53224

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		10	ug/L	1
Benzene	71-43-2	8260B	ND		0.50	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		0.50	ug/L	1
Bromoform	75-25-2	8260B	ND		0.50	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		0.50	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		0.50	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		0.50	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		0.50	ug/L	1
Chloroethane	75-00-3	8260B	ND		0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		0.50	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		0.50	ug/L	1
Cyclohexane	110-82-7	8260B	ND		0.50	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		0.50	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		0.50	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		0.50	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		0.50	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		0.50	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		0.50	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		0.50	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		0.50	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		0.50	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		0.50	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		0.50	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		0.50	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		0.50	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		0.50	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		0.50	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		0.50	ug/L	1
Methyl acetate	79-20-9	8260B	ND		1.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		0.50	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		0.50	ug/L	1
Styrene	100-42-5	8260B	ND		0.50	ug/L	1
1,1,1,2-Tetrachloroethane	79-34-5	8260B	ND		0.50	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		0.50	ug/L	1
Toluene	108-88-3	8260B	ND		0.50	ug/L	1
1,1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		0.50	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		0.50	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		0.50	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		0.50	ug/L	1

PQL = Practical quantitation limit      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      H = Out of holding time  
 ND = Not detected at or above the PQL      J = Estimated result < PQL and ≥ MDL      P = The RPD between two GC columns exceeds 40%      N = Recovery is out of criteria  
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

# Volatile Organic Compounds by GC/MS

Client: <b>NCDENR - DWM - DSCA</b>	Laboratory ID: <b>PG25011-006</b>
Description: <b>3014 US70E</b>	Matrix: <b>Aqueous</b>
Date Sampled: <b>07/24/2014 1332</b>	
Date Received: <b>07/25/2014</b>	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/04/2014 1919	PMM2		53224

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Trichloroethene	79-01-6	8260B	ND		0.50	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		0.50	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		98	70-130
Bromofluorobenzene		100	70-130
Toluene-d8		91	70-130

PQL = Practical quantitation limit      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      H = Out of holding time  
 ND = Not detected at or above the PQL      J = Estimated result < PQL and ≥ MDL      P = The RPD between two GC columns exceeds 40%      N = Recovery is out of criteria  
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

September 2, 2014

**MEMORANDUM**

**TO:** Vince Antrilli  
Inactive Hazardous Sites Branch  
Superfund Section

**FROM:** Hanna Assefa, Industrial Hygiene Consultant *HA*  
Inactive Hazardous Sites Branch  
Superfund Section

**RE:** Health Risk Evaluation  
Taylor Road Wells  
722 Taylor Road  
Stoneville, Rockingham County  
NONCD 000 2879

A water sample was collected from the subject well on July 24, 2014. The concentration of all contaminants detected in the water sample is below applicable standards. The standards used to determine if the water is suitable for drinking and cooking are the federal drinking water standards (USEPA MCL), or where there is no MCL, the health based North Carolina Groundwater Quality Standard (15A NCAC 2L)/ Interim Standard (IMAC). If both the USEPA MCL and health- based North Carolina 2L/IMAC are not available, a health-based concentration is calculated.

If contaminant concentrations exceed the applicable standards for using the water for drinking and cooking, the contaminant concentrations are further analyzed to determine if the water is suitable for other household uses, such as showering, bathing, washing dishes, flushing toilets, and hand washing. **Therefore, based on this evaluation, the water from this can be used for drinking, cooking and all other purposes listed above. Magnesium is an essential nutrient.** The table below compares detected contaminant concentrations with the applicable standards:

Sample #	Contaminant	Concentration (ug/L)	US EPA MCL (ug/L)	NC 2L (ug/L)	Calculated Health Based Concentration (ug/l)
PG25011-005	Cis-1,2-Dichloroethene	1.4	70		
	Barium	110	2,000	**	**
	Copper	12	1,300	**	**
	Magnesium	7,700	*	*	*
	Zinc	170	*	1,000	**

\*Not Available

\*\* Not Applicable

ug/L= Micrograms of contaminant per liter of water.

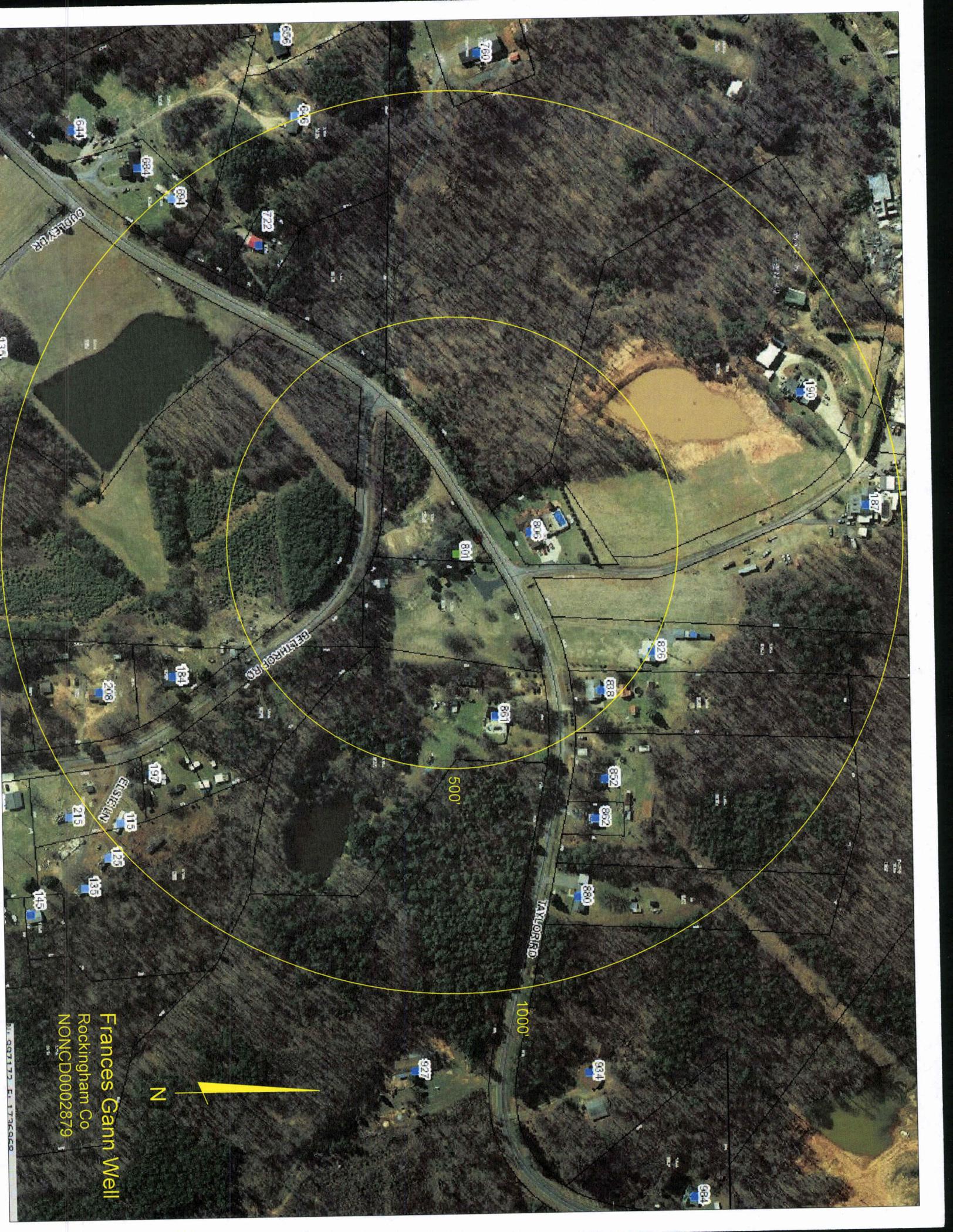
Taylor Rd Wells (formerly Frances Gann Res), Rockingham County NONCD0002879

Sample Address / Owner	Sample Date	Sample By #	Well ID#	PCE		Chloroform		Carbon-Tet		Chloromethane		BDCM		cis-1,2-DCE		MTBE		Barium		Copper		Iron		Zinc		Comments	
				2L=	1	2L=	70	2L=	0.3	2L=	3	2L=	1	2L=	70	2L=	20	2L=	700	2L=	###	2L=	###	2L=	300		2L=
801 Taylor Road Frances Gann	9/6/2008	ES090808-0001001				14.7		9.4				<0.5															
	9/15/2008	AB35505				7		5.2																			
	10/30/2008	AB37171	G-01			5.6		3.4			0.8																
	11/10/2009	BAF																									
806 Taylor Road	10/30/2008	AB37172																									
722 Taylor Rd	7/24/2014	BAF																									
208 Bellhop Rd	7/24/2014	BAF																									
190 GSI Drive	11/10/2009	BAF	G-04B								0.68																
	7/24/2014	BAF																									
	7/24/2014	BAF																									
191 GSI Drive	11/10/2009	BAF	G-04A								0.92																
	7/24/2014	BAF																									

Notes:  
 All units in ug/l (ppb)  
 Above MDL Limit = **BOLD**  
 Above 2L Limit = **BOLD**  
 Above MCL Limit = **BOLD**  
 Above RAL = **BOLD**  
 Chloroform Below 2L = **NOT BOLD**  
 \*-Sample collected after filter system  
 (T) or (t) = Total

BDCM=BromoDichloromethane  
 cis-1,2-DCE=cis-1,2-Dichloroethene  
 MTBE=Methyl Tert Butyl Ether





Frances Gann Well  
Rockingham Co  
NONCD0002879



IN 997173 F. 1736960

Oakley Ln

Beltharop Rd

Taylor Rd

Elstern Ln

500'

1000'

644

684

684

722

689

639

780

130

187

801

805

826

888

881

852

852

880

134

208

167

215

115

125

136

145

927

934

984

August 26, 2014

**MEMORANDUM**

**TO:** Hanna Assefa, Industrial Hygienist  
Superfund Section, IHSB

**FROM:** Vince Antrilli  
Superfund Section, Inactive Hazardous Sites Branch (IHSB)

**RE:** Health Risk Evaluation Request  
Taylor Rd Wells  
190 GSI Drive  
Stoneville, Rockingham County  
NONCD 000 2879

Please find attached a copy of the laboratory analytical results for one water supply well sample. This sample was collected on July 24, 2014. Because this sample was collected from a water supply well, the IHSB requests a health risk evaluation and a recommendation for the continued use of this well. This information will be provided to the well user. The following table summarizes the detected compounds and the corresponding concentrations.

Well ID	Compound	Concentration ( $\mu\text{g/L}$ )	US EPA MCL ( $\mu\text{g/L}$ )	NC 2L ( $\mu\text{g/L}$ )
PG25011-002	Methyl tertiary butyl ether	3.0		20.0
	Copper	8.2	1,300	1,000
	Iron	340		300

If you have any questions, please contact me at 707-8353.

Attachment

August 26, 2014

**MEMORANDUM**

**TO:** Hanna Assefa, Industrial Hygienist  
Superfund Section, IHSB

**FROM:** Vince Antrilli  
Superfund Section, Inactive Hazardous Sites Branch (IHSB)

**RE:** Health Risk Evaluation Request  
Taylor Rd Wells  
191 GSI Drive  
Stoneville, Rockingham County  
NONCD 000 2879

Please find attached a copy of the laboratory analytical results for one water supply well sample. This sample was collected on July 24, 2014. Because this sample was collected from a water supply well, the IHSB requests a health risk evaluation and a recommendation for the continued use of this well. This information will be provided to the well user. The following table summarizes the detected compounds and the corresponding concentrations.

Well ID	Compound	Concentration ( $\mu\text{g/L}$ )	US EPA MCL ( $\mu\text{g/L}$ )	NC 2L ( $\mu\text{g/L}$ )
PG25011-003	Barium	110	2,000	700
	Copper	100	1,300	1,000
	Zinc	130		1000

If you have any questions, please contact me at 707-8353.

Attachment

August 26, 2014

**MEMORANDUM**

**TO:** Hanna Assefa, Industrial Hygienist  
Superfund Section, IHSB

**FROM:** Vince Antrilli  
Superfund Section, Inactive Hazardous Sites Branch (IHSB)

**RE:** Health Risk Evaluation Request  
Taylor Rd Wells  
208 Belthrop Road  
Stoneville, Rockingham County  
NONCD 000 2879

Please find attached a copy of the laboratory analytical results for one water supply well sample. This sample was collected on July 24, 2014. Because this sample was collected from a water supply well, the IHSB requests a health risk evaluation and a recommendation for the continued use of this well. This information will be provided to the well user. The following table summarizes the detected compounds and the corresponding concentrations.

Well ID	Compound	Concentration ( $\mu\text{g/L}$ )	US EPA MCL ( $\mu\text{g/L}$ )	NC 2L ( $\mu\text{g/L}$ )
PG25011-004	Methyl tertiary butyl ether	0.50		20.0
	Tetrachlorethene	1.6	5.0	0.7
	Barium	41	2,000	700
	Copper	40	1,300	1,000
	Magnesium	5,000		
	Zinc	190		1,000

If you have any questions, please contact me at 707-8353.

Attachment

August 26, 2014

**MEMORANDUM**

**TO:** Hanna Assefa, Industrial Hygienist  
Superfund Section, IHSB

**FROM:** Vince Antrilli  
Superfund Section, Inactive Hazardous Sites Branch (IHSB)

**RE:** Health Risk Evaluation Request  
Taylor Rd Wells  
722 Taylor Road  
Stoneville, Rockingham County  
NONCD 000 2879

Please find attached a copy of the laboratory analytical results for one water supply well sample. This sample was collected on July 24, 2014. Because this sample was collected from a water supply well, the IHSB requests a health risk evaluation and a recommendation for the continued use of this well. This information will be provided to the well user. The following table summarizes the detected compounds and the corresponding concentrations.

Well ID	Compound	Concentration ( $\mu\text{g/L}$ )	US EPA MCL ( $\mu\text{g/L}$ )	NC 2L ( $\mu\text{g/L}$ )
PG25001-005	cis-1,2-Dichloroethene	1.4	70.0	70.0
	Barium	110	2,000	700
	Copper	12	1,300	1,000
	Magnesium	7,700		
	Zinc	170		1,000

If you have any questions, please contact me at 707-8353.

Attachment

# SHEALY ENVIRONMENTAL SERVICES, INC.

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## Report of Analysis

**NCDENR - DWM - DSCA**  
217 West Jones St.  
Raleigh, NC 27603  
Attention: Vincent Antrilli

Project Name: **Frances Gunn Well - Allen Lane CTM Wells**

Project Number: **NONCD0002879**

Lot Number: **PG25011**

Date Completed: **08/06/2014**



**Nisreen Saikaly**  
Project Manager



This report shall not be reproduced, except in its entirety, without the written approval of Shealy Environmental Services, Inc.

The following non-paginated documents are considered part of this report: Chain of Custody Record and Sample Receipt Checklist.

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# SHEALY ENVIRONMENTAL SERVICES, INC.

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SC DHEC No: 32010

NELAC No: E87653

NC DENR No: 329

NC Field Parameters No: 5639

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## Case Narrative NCDENR - DWM - DSCA Lot Number: PG25011

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This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

# SHEALY ENVIRONMENTAL SERVICES, INC.

## Sample Summary NCDENR - DWM - DSCA Lot Number: PG25011

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	TRIP BLANK	Aqueous	07/24/2014	07/25/2014
002	190 GSI	Aqueous	07/24/2014 0942	07/25/2014
003	191 GSI	Aqueous	07/24/2014 1005	07/25/2014
004	208 BELTHROP	Aqueous	07/24/2014 1040	07/25/2014
005	722 TAYLOR	Aqueous	07/24/2014 1108	07/25/2014
006	3014 US70E	Aqueous	07/24/2014 1332	07/25/2014

(6 samples)

# SHEALY ENVIRONMENTAL SERVICES, INC.

## Executive Summary NCDENR - DWM - DSCA Lot Number: PG25011

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
002	190 GSI	Aqueous	Methyl tertiary butyl ether (MTBE)	8260B	3.0		ug/L	7
002	190 GSI	Aqueous	Copper	6010C	0.0082		mg/L	9
002	190 GSI	Aqueous	Iron	6010C	0.34		mg/L	9
003	191 GSI	Aqueous	Barium	6010C	0.11		mg/L	12
003	191 GSI	Aqueous	Copper	6010C	0.10		mg/L	12
003	191 GSI	Aqueous	Zinc	6010C	0.13		mg/L	12
004	208 BELTHROP	Aqueous	Methyl tertiary butyl ether (MTBE)	8260B	0.50		ug/L	13
004	208 BELTHROP	Aqueous	Tetrachloroethene	8260B	1.6		ug/L	13
004	208 BELTHROP	Aqueous	Barium	6010C	0.041		mg/L	15
004	208 BELTHROP	Aqueous	Copper	6010C	0.040		mg/L	15
004	208 BELTHROP	Aqueous	Magnesium	6010C	5.0		mg/L	15
004	208 BELTHROP	Aqueous	Zinc	6010C	0.19		mg/L	15
005	722 TAYLOR	Aqueous	cis-1,2-Dichloroethene	8260B	1.4		ug/L	16
005	722 TAYLOR	Aqueous	Barium	6010C	0.11		mg/L	18
005	722 TAYLOR	Aqueous	Copper	6010C	0.012		mg/L	18
005	722 TAYLOR	Aqueous	Magnesium	6010C	7.7		mg/L	18
005	722 TAYLOR	Aqueous	Zinc	6010C	0.17		mg/L	18

(17 detections)

Client: NCDENR - DWM - DSCA

Laboratory ID: PG25011-001

Description: TRIP BLANK

Matrix: Aqueous

Date Sampled: 07/24/2014

Date Received: 07/25/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/04/2014 1722	PMM2		53224

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		10	ug/L	1
Benzene	71-43-2	8260B	ND		0.50	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		0.50	ug/L	1
Bromoform	75-25-2	8260B	ND		0.50	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		0.50	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		0.50	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		0.50	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		0.50	ug/L	1
Chloroethane	75-00-3	8260B	ND		0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		0.50	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		0.50	ug/L	1
Cyclohexane	110-82-7	8260B	ND		0.50	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		0.50	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		0.50	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		0.50	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		0.50	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		0.50	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		0.50	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		0.50	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		0.50	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		0.50	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		0.50	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		0.50	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		0.50	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		0.50	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		0.50	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		0.50	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		0.50	ug/L	1
Methyl acetate	79-20-9	8260B	ND		1.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		0.50	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		0.50	ug/L	1
Styrene	100-42-5	8260B	ND		0.50	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		0.50	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		0.50	ug/L	1
Toluene	108-88-3	8260B	ND		0.50	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		0.50	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		0.50	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		0.50	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		0.50	ug/L	1

PQL = Practical quantitation limit      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      H = Out of holding time  
 ND = Not detected at or above the PQL      J = Estimated result < PQL and ≥ MDL      P = The RPD between two GC columns exceeds 40%      N = Recovery is out of criteria  
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: NCDENR - DWM - DSCA

Laboratory ID: PG25011-001

Description: TRIP BLANK

Matrix: Aqueous

Date Sampled: 07/24/2014

Date Received: 07/25/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/04/2014 1722	PMM2		53224

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Trichloroethene	79-01-6	8260B	ND		0.50	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		0.50	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		97	70-130
Bromofluorobenzene		97	70-130
Toluene-d8		93	70-130

PQL = Practical quantitation limit      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      H = Out of holding time  
 ND = Not detected at or above the PQL      J = Estimated result < PQL and ≥ MDL      P = The RPD between two GC columns exceeds 40%      N = Recovery is out of criteria  
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: NCDENR - DWM - DSCA

Laboratory ID: PG25011-002

Description: 190 GSI

Matrix: Aqueous

Date Sampled: 07/24/2014 0942

Date Received: 07/25/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/04/2014 1745	PMM2		53224

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		10	ug/L	1
Benzene	71-43-2	8260B	ND		0.50	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		0.50	ug/L	1
Bromoform	75-25-2	8260B	ND		0.50	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		0.50	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		0.50	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		0.50	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		0.50	ug/L	1
Chloroethane	75-00-3	8260B	ND		0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		0.50	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		0.50	ug/L	1
Cyclohexane	110-82-7	8260B	ND		0.50	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		0.50	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		0.50	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		0.50	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		0.50	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		0.50	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		0.50	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		0.50	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		0.50	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		0.50	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		0.50	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		0.50	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		0.50	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		0.50	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		0.50	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		0.50	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		0.50	ug/L	1
Methyl acetate	79-20-9	8260B	ND		1.0	ug/L	1
<b>Methyl tertiary butyl ether (MTBE)</b>	<b>1634-04-4</b>	<b>8260B</b>	<b>3.0</b>		<b>0.50</b>	<b>ug/L</b>	<b>1</b>
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		0.50	ug/L	1
Styrene	100-42-5	8260B	ND		0.50	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		0.50	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		0.50	ug/L	1
Toluene	108-88-3	8260B	ND		0.50	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		0.50	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		0.50	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		0.50	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		0.50	ug/L	1

PQL = Practical quantitation limit      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      H = Out of holding time  
 ND = Not detected at or above the PQL      J = Estimated result < PQL and ≥ MDL      P = The RPD between two GC columns exceeds 40%      N = Recovery is out of criteria  
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: NCDENR - DWM - DSCA

Laboratory ID: PG25011-002

Description: 190 GSI

Matrix: Aqueous

Date Sampled: 07/24/2014 0942

Date Received: 07/25/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/04/2014 1745	PMM2		53224

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Trichloroethene	79-01-6	8260B	ND		0.50	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		0.50	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		96	70-130
Bromofluorobenzene		103	70-130
Toluene-d8		95	70-130

PQL = Practical quantitation limit      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      H = Out of holding time  
 ND = Not detected at or above the PQL      J = Estimated result < PQL and ≥ MDL      P = The RPD between two GC columns exceeds 40%      N = Recovery is out of criteria  
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: NCDENR - DWM - DSCA

Laboratory ID: PG25011-002

Description: 190 GSI

Matrix: Aqueous

Date Sampled: 07/24/2014 0942

Date Received: 07/25/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	07/30/2014 1651	COH	07/30/2014 0924	52693
1	3005A	6010C	1	07/30/2014 0053	CDF	07/29/2014 1239	52591

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aluminum	7429-90-5	6010C	ND		0.20	mg/L	1
Arsenic	7440-38-2	6010C	ND		0.010	mg/L	1
Barium	7440-39-3	6010C	ND		0.025	mg/L	1
Cadmium	7440-43-9	6010C	ND		0.0020	mg/L	1
Chromium	7440-47-3	6010C	ND		0.0050	mg/L	1
Copper	7440-50-8	6010C	0.0082		0.0050	mg/L	1
Iron	7439-89-6	6010C	0.34		0.10	mg/L	1
Lead	7439-92-1	6010C	ND		0.010	mg/L	1
Magnesium	7439-95-4	6010C	ND		5.0	mg/L	1
Manganese	7439-96-5	6010C	ND		0.015	mg/L	1
Mercury	7439-97-6	7470A	ND		0.00010	mg/L	1
Nickel	7440-02-0	6010C	ND		0.040	mg/L	1
Silver	7440-22-4	6010C	ND		0.0050	mg/L	1
Zinc	7440-66-6	6010C	ND		0.020	mg/L	1

PQL = Practical quantitation limit      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      H = Out of holding time  
 ND = Not detected at or above the PQL      J = Estimated result < PQL and ≥ MDL      P = The RPD between two GC columns exceeds 40%      N = Recovery is out of criteria  
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: NCDENR - DWM - DSCA

Laboratory ID: PG25011-003

Description: 191 GSI

Matrix: Aqueous

Date Sampled: 07/24/2014 1005

Date Received: 07/25/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/04/2014 1809	PMM2		53224

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		10	ug/L	1
Benzene	71-43-2	8260B	ND		0.50	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		0.50	ug/L	1
Bromoform	75-25-2	8260B	ND		0.50	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		0.50	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		0.50	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		0.50	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		0.50	ug/L	1
Chloroethane	75-00-3	8260B	ND		0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		0.50	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		0.50	ug/L	1
Cyclohexane	110-82-7	8260B	ND		0.50	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		0.50	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		0.50	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		0.50	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		0.50	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		0.50	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		0.50	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		0.50	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		0.50	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		0.50	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		0.50	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		0.50	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		0.50	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		0.50	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		0.50	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		0.50	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		0.50	ug/L	1
Methyl acetate	79-20-9	8260B	ND		1.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		0.50	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		0.50	ug/L	1
Styrene	100-42-5	8260B	ND		0.50	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		0.50	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		0.50	ug/L	1
Toluene	108-88-3	8260B	ND		0.50	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		0.50	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		0.50	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		0.50	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		0.50	ug/L	1

PQL = Practical quantitation limit      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      H = Out of holding time  
 ND = Not detected at or above the PQL      J = Estimated result < PQL and ≥ MDL      P = The RPD between two GC columns exceeds 40%      N = Recovery is out of criteria  
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: NCDENR - DWM - DSCA

Laboratory ID: PG25011-003

Description: 191 GSI

Matrix: Aqueous

Date Sampled: 07/24/2014 1005

Date Received: 07/25/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/04/2014 1809	PMM2		53224

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Trichloroethene	79-01-6	8260B	ND		0.50	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		0.50	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		100	70-130
Bromofluorobenzene		101	70-130
Toluene-d8		97	70-130

PQL = Practical quantitation limit    B = Detected in the method blank    E = Quantitation of compound exceeded the calibration range    H = Out of holding time  
 ND = Not detected at or above the PQL    J = Estimated result < PQL and ≥ MDL    P = The RPD between two GC columns exceeds 40%    N = Recovery is out of criteria  
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: NCDENR - DWM - DSCA

Laboratory ID: PG25011-003

Description: 191 GSI

Matrix: Aqueous

Date Sampled: 07/24/2014 1005

Date Received: 07/25/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	07/30/2014 1653	COH	07/30/2014 0924	52693
1	3005A	6010C	1	07/30/2014 0057	CDF	07/29/2014 1239	52591

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aluminum	7429-90-5	6010C	ND		0.20	mg/L	1
Arsenic	7440-38-2	6010C	ND		0.010	mg/L	1
Barium	7440-39-3	6010C	0.11		0.025	mg/L	1
Cadmium	7440-43-9	6010C	ND		0.0020	mg/L	1
Chromium	7440-47-3	6010C	ND		0.0050	mg/L	1
Copper	7440-50-8	6010C	0.10		0.0050	mg/L	1
Iron	7439-89-6	6010C	ND		0.10	mg/L	1
Lead	7439-92-1	6010C	ND		0.010	mg/L	1
Magnesium	7439-95-4	6010C	ND		5.0	mg/L	1
Manganese	7439-96-5	6010C	ND		0.015	mg/L	1
Mercury	7439-97-6	7470A	ND		0.00010	mg/L	1
Nickel	7440-02-0	6010C	ND		0.040	mg/L	1
Silver	7440-22-4	6010C	ND		0.0050	mg/L	1
Zinc	7440-66-6	6010C	0.13		0.020	mg/L	1

PQL = Practical quantitation limit      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      H = Out of holding time  
 ND = Not detected at or above the PQL      J = Estimated result < PQL and ≥ MDL      P = The RPD between two GC columns exceeds 40%      N = Recovery is out of criteria  
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: NCDENR - DWM - DSCA

Laboratory ID: PG25011-004

Description: 208 BELTHROP

Matrix: Aqueous

Date Sampled: 07/24/2014 1040

Date Received: 07/25/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/04/2014 1833	PMM2		53224

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		10	ug/L	1
Benzene	71-43-2	8260B	ND		0.50	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		0.50	ug/L	1
Bromoform	75-25-2	8260B	ND		0.50	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		0.50	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		0.50	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		0.50	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		0.50	ug/L	1
Chloroethane	75-00-3	8260B	ND		0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		0.50	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		0.50	ug/L	1
Cyclohexane	110-82-7	8260B	ND		0.50	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		0.50	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		0.50	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		0.50	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		0.50	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		0.50	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		0.50	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		0.50	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		0.50	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		0.50	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		0.50	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		0.50	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		0.50	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		0.50	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		0.50	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		0.50	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		0.50	ug/L	1
Methyl acetate	79-20-9	8260B	ND		1.0	ug/L	1
<b>Methyl tertiary butyl ether (MTBE)</b>	<b>1634-04-4</b>	<b>8260B</b>	<b>0.50</b>		<b>0.50</b>	<b>ug/L</b>	<b>1</b>
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		0.50	ug/L	1
Styrene	100-42-5	8260B	ND		0.50	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		0.50	ug/L	1
<b>Tetrachloroethene</b>	<b>127-18-4</b>	<b>8260B</b>	<b>1.6</b>		<b>0.50</b>	<b>ug/L</b>	<b>1</b>
Toluene	108-88-3	8260B	ND		0.50	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		0.50	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		0.50	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		0.50	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		0.50	ug/L	1

PQL = Practical quantitation limit    B = Detected in the method blank    E = Quantitation of compound exceeded the calibration range    H = Out of holding time  
 ND = Not detected at or above the PQL    J = Estimated result < PQL and ≥ MDL    P = The RPD between two GC columns exceeds 40%    N = Recovery is out of criteria  
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: NCDENR - DWM - DSCA

Laboratory ID: PG25011-004

Description: 208 BELTHROP

Matrix: Aqueous

Date Sampled: 07/24/2014 1040

Date Received: 07/25/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/04/2014 1833	PMM2		53224

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Trichloroethene	79-01-6	8260B	ND		0.50	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		0.50	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		98	70-130
Bromofluorobenzene		107	70-130
Toluene-d8		93	70-130

PQL = Practical quantitation limit    B = Detected in the method blank    E = Quantitation of compound exceeded the calibration range    H = Out of holding time  
 ND = Not detected at or above the PQL    J = Estimated result < PQL and ≥ MDL    P = The RPD between two GC columns exceeds 40%    N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: NCDENR - DWM - DSCA

Laboratory ID: PG25011-004

Description: 208 BELTHROP

Matrix: Aqueous

Date Sampled: 07/24/2014 1040

Date Received: 07/25/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	07/30/2014 1656	COH	07/30/2014 0924	52693
1	3005A	6010C	1	07/30/2014 0101	CDF	07/29/2014 1239	52591

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aluminum	7429-90-5	6010C	ND		0.20	mg/L	1
Arsenic	7440-38-2	6010C	ND		0.010	mg/L	1
Barium	7440-39-3	6010C	0.041		0.025	mg/L	1
Cadmium	7440-43-9	6010C	ND		0.0020	mg/L	1
Chromium	7440-47-3	6010C	ND		0.0050	mg/L	1
Copper	7440-50-8	6010C	0.040		0.0050	mg/L	1
Iron	7439-89-6	6010C	ND		0.10	mg/L	1
Lead	7439-92-1	6010C	ND		0.010	mg/L	1
Magnesium	7439-95-4	6010C	5.0		5.0	mg/L	1
Manganese	7439-96-5	6010C	ND		0.015	mg/L	1
Mercury	7439-97-6	7470A	ND		0.00010	mg/L	1
Nickel	7440-02-0	6010C	ND		0.040	mg/L	1
Silver	7440-22-4	6010C	ND		0.0050	mg/L	1
Zinc	7440-66-6	6010C	0.19		0.020	mg/L	1

PQL = Practical quantitation limit      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      H = Out of holding time  
 ND = Not detected at or above the PQL      J = Estimated result < PQL and ≥ MDL      P = The RPD between two GC columns exceeds 40%      N = Recovery is out of criteria  
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: NCDENR - DWM - DSCA

Laboratory ID: PG25011-005

Description: 722 TAYLOR

Matrix: Aqueous

Date Sampled: 07/24/2014 1108

Date Received: 07/25/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/04/2014 1856	PMM2		53224

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		10	ug/L	1
Benzene	71-43-2	8260B	ND		0.50	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		0.50	ug/L	1
Bromoform	75-25-2	8260B	ND		0.50	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		0.50	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		0.50	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		0.50	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		0.50	ug/L	1
Chloroethane	75-00-3	8260B	ND		0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		0.50	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		0.50	ug/L	1
Cyclohexane	110-82-7	8260B	ND		0.50	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		0.50	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		0.50	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		0.50	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		0.50	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		0.50	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		0.50	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		0.50	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		0.50	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		0.50	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		0.50	ug/L	1
<b>cis-1,2-Dichloroethene</b>	<b>156-59-2</b>	<b>8260B</b>	<b>1.4</b>		<b>0.50</b>	<b>ug/L</b>	<b>1</b>
trans-1,2-Dichloroethene	156-60-5	8260B	ND		0.50	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		0.50	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		0.50	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		0.50	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		0.50	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		0.50	ug/L	1
Methyl acetate	79-20-9	8260B	ND		1.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		0.50	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		0.50	ug/L	1
Styrene	100-42-5	8260B	ND		0.50	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		0.50	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		0.50	ug/L	1
Toluene	108-88-3	8260B	ND		0.50	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		0.50	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		0.50	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		0.50	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		0.50	ug/L	1

PQL = Practical quantitation limit      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      H = Out of holding time  
 ND = Not detected at or above the PQL      J = Estimated result < PQL and ≥ MDL      P = The RPD between two GC columns exceeds 40%      N = Recovery is out of criteria  
 Where applicable, all soil sample analysis is reported on a dry weight basis unless flagged with a "W"

Client: NCDENR - DWM - DSCA

Laboratory ID: PG25011-005

Description: 722 TAYLOR

Matrix: Aqueous

Date Sampled: 07/24/2014 1108

Date Received: 07/25/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/04/2014 1856	PMM2		53224

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Trichloroethene	79-01-6	8260B	ND		0.50	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		0.50	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		101	70-130
Bromofluorobenzene		98	70-130
Toluene-d8		100	70-130

PQL = Practical quantitation limit      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      H = Out of holding time  
 ND = Not detected at or above the PQL      J = Estimated result < PQL and ≥ MDL      P = The RPD between two GC columns exceeds 40%      N = Recovery is out of criteria  
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: NCDENR - DWM - DSCA

Laboratory ID: PG25011-005

Description: 722 TAYLOR

Matrix: Aqueous

Date Sampled: 07/24/2014 1108

Date Received: 07/25/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	07/30/2014 1658	COH	07/30/2014 0924	52693
1	3005A	6010C	1	07/30/2014 0105	CDF	07/29/2014 1239	52591

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Aluminum	7429-90-5	6010C	ND		0.20	mg/L	1
Arsenic	7440-38-2	6010C	ND		0.010	mg/L	1
Barium	7440-39-3	6010C	0.11		0.025	mg/L	1
Cadmium	7440-43-9	6010C	ND		0.0020	mg/L	1
Chromium	7440-47-3	6010C	ND		0.0050	mg/L	1
Copper	7440-50-8	6010C	0.012		0.0050	mg/L	1
Iron	7439-89-6	6010C	ND		0.10	mg/L	1
Lead	7439-92-1	6010C	ND		0.010	mg/L	1
Magnesium	7439-95-4	6010C	7.7		5.0	mg/L	1
Manganese	7439-96-5	6010C	ND		0.015	mg/L	1
Mercury	7439-97-6	7470A	ND		0.00010	mg/L	1
Nickel	7440-02-0	6010C	ND		0.040	mg/L	1
Silver	7440-22-4	6010C	ND		0.0050	mg/L	1
Zinc	7440-66-6	6010C	0.17		0.020	mg/L	1

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 ND = Not detected at or above the PQL      J = Estimated result < PQL and ≥ MDL      P = The RPD between two GC columns exceeds 40%      N = Recovery is out of criteria  
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: NCDENR - DWM - DSCA

Laboratory ID: PG25011-006

Description: 3014 US70E

Matrix: Aqueous

Date Sampled: 07/24/2014 1332

Date Received: 07/25/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/04/2014 1919	PMM2		53224

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		10	ug/L	1
Benzene	71-43-2	8260B	ND		0.50	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		0.50	ug/L	1
Bromoform	75-25-2	8260B	ND		0.50	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		0.50	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		0.50	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		0.50	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		0.50	ug/L	1
Chloroethane	75-00-3	8260B	ND		0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		0.50	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		0.50	ug/L	1
Cyclohexane	110-82-7	8260B	ND		0.50	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		0.50	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		0.50	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		0.50	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		0.50	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		0.50	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		0.50	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		0.50	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		0.50	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		0.50	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		0.50	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		0.50	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		0.50	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		0.50	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		0.50	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		0.50	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		0.50	ug/L	1
Methyl acetate	79-20-9	8260B	ND		1.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		0.50	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		0.50	ug/L	1
Styrene	100-42-5	8260B	ND		0.50	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		0.50	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		0.50	ug/L	1
Toluene	108-88-3	8260B	ND		0.50	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		0.50	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		0.50	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		0.50	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		0.50	ug/L	1

PQL = Practical quantitation limit    B = Detected in the method blank    E = Quantitation of compound exceeded the calibration range    H = Out of holding time  
 ND = Not detected at or above the PQL    J = Estimated result < PQL and ≥ MDL    P = The RPD between two GC columns exceeds 40%    N = Recovery is out of criteria  
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: NCDENR - DWM - DSCA

Laboratory ID: PG25011-006

Description: 3014 US70E

Matrix: Aqueous

Date Sampled: 07/24/2014 1332

Date Received: 07/25/2014

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/04/2014 1919	PMM2		53224

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Trichloroethene	79-01-6	8260B	ND		0.50	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		0.50	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		98	70-130
Bromofluorobenzene		100	70-130
Toluene-d8		91	70-130

PQL = Practical quantitation limit      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range      H = Out of holding time  
 ND = Not detected at or above the PQL      J = Estimated result < PQL and ≥ MDL      P = The RPD between two GC columns exceeds 40%      N = Recovery is out of criteria  
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

## QC Summary

# Volatile Organic Compounds by GC/MS - MB

Sample ID: PQ53224-001

Batch: 53224

Analytical Method: 8260B

Matrix: Aqueous

Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Acetone	ND		1	10	ug/L	08/04/2014 1635
Benzene	ND		1	0.50	ug/L	08/04/2014 1635
Bromodichloromethane	ND		1	0.50	ug/L	08/04/2014 1635
Bromoform	ND		1	0.50	ug/L	08/04/2014 1635
Bromomethane (Methyl bromide)	ND		1	0.50	ug/L	08/04/2014 1635
2-Butanone (MEK)	ND		1	10	ug/L	08/04/2014 1635
Carbon disulfide	ND		1	0.50	ug/L	08/04/2014 1635
Carbon tetrachloride	ND		1	0.50	ug/L	08/04/2014 1635
Chlorobenzene	ND		1	0.50	ug/L	08/04/2014 1635
Chloroethane	ND		1	0.50	ug/L	08/04/2014 1635
Chloroform	ND		1	0.50	ug/L	08/04/2014 1635
Chloromethane (Methyl chloride)	ND		1	0.50	ug/L	08/04/2014 1635
Cyclohexane	ND		1	0.50	ug/L	08/04/2014 1635
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	0.50	ug/L	08/04/2014 1635
Dibromochloromethane	ND		1	0.50	ug/L	08/04/2014 1635
1,2-Dibromoethane (EDB)	ND		1	0.50	ug/L	08/04/2014 1635
1,4-Dichlorobenzene	ND		1	0.50	ug/L	08/04/2014 1635
1,2-Dichlorobenzene	ND		1	0.50	ug/L	08/04/2014 1635
1,3-Dichlorobenzene	ND		1	0.50	ug/L	08/04/2014 1635
Dichlorodifluoromethane	ND		1	0.50	ug/L	08/04/2014 1635
1,2-Dichloroethane	ND		1	0.50	ug/L	08/04/2014 1635
1,1-Dichloroethane	ND		1	0.50	ug/L	08/04/2014 1635
trans-1,2-Dichloroethene	ND		1	0.50	ug/L	08/04/2014 1635
1,1-Dichloroethene	ND		1	0.50	ug/L	08/04/2014 1635
cis-1,2-Dichloroethene	ND		1	0.50	ug/L	08/04/2014 1635
1,2-Dichloropropane	ND		1	0.50	ug/L	08/04/2014 1635
trans-1,3-Dichloropropene	ND		1	0.50	ug/L	08/04/2014 1635
cis-1,3-Dichloropropene	ND		1	0.50	ug/L	08/04/2014 1635
Ethylbenzene	ND		1	0.50	ug/L	08/04/2014 1635
2-Hexanone	ND		1	10	ug/L	08/04/2014 1635
Isopropylbenzene	ND		1	0.50	ug/L	08/04/2014 1635
Methyl acetate	ND		1	1.0	ug/L	08/04/2014 1635
Methyl tertiary butyl ether (MTBE)	ND		1	0.50	ug/L	08/04/2014 1635
4-Methyl-2-pentanone	ND		1	10	ug/L	08/04/2014 1635
Methylcyclohexane	ND		1	5.0	ug/L	08/04/2014 1635
Methylene chloride	ND		1	0.50	ug/L	08/04/2014 1635
Styrene	ND		1	0.50	ug/L	08/04/2014 1635
1,1,2,2-Tetrachloroethane	ND		1	0.50	ug/L	08/04/2014 1635
Tetrachloroethene	ND		1	0.50	ug/L	08/04/2014 1635
Toluene	ND		1	0.50	ug/L	08/04/2014 1635
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		1	0.50	ug/L	08/04/2014 1635
1,2,4-Trichlorobenzene	ND		1	0.50	ug/L	08/04/2014 1635
1,1,1-Trichloroethane	ND		1	0.50	ug/L	08/04/2014 1635
1,1,2-Trichloroethane	ND		1	0.50	ug/L	08/04/2014 1635

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the PQL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

## Volatile Organic Compounds by GC/MS - MB

Sample ID: PQ53224-001

Matrix: Aqueous

Batch: 53224

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Trichloroethene	ND		1	0.50	ug/L	08/04/2014 1635
Trichlorofluoromethane	ND		1	0.50	ug/L	08/04/2014 1635
Vinyl chloride	ND		1	0.50	ug/L	08/04/2014 1635
Xylenes (total)	ND		1	0.50	ug/L	08/04/2014 1635
Surrogate	Q	% Rec	Acceptance Limit			
Bromofluorobenzene		98	70-130			
1,2-Dichloroethane-d4		97	70-130			
Toluene-d8		95	70-130			

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the PQL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

# Volatile Organic Compounds by GC/MS - LCS

Sample ID: PQ53224-002

Batch: 53224

Analytical Method: 8260B

Matrix: Aqueous

Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	100	110		1	110	60-140	08/04/2014 1502
Benzene	50	48		1	96	70-130	08/04/2014 1502
Bromodichloromethane	50	50		1	99	70-130	08/04/2014 1502
Bromoform	50	49		1	99	70-130	08/04/2014 1502
Bromomethane (Methyl bromide)	50	43		1	85	60-140	08/04/2014 1502
2-Butanone (MEK)	100	99		1	99	60-140	08/04/2014 1502
Carbon disulfide	50	48		1	96	60-140	08/04/2014 1502
Carbon tetrachloride	50	47		1	94	70-130	08/04/2014 1502
Chlorobenzene	50	48		1	97	70-130	08/04/2014 1502
Chloroethane	50	49		1	97	42-163	08/04/2014 1502
Chloroform	50	46		1	92	70-130	08/04/2014 1502
Chloromethane (Methyl chloride)	50	45		1	90	20-158	08/04/2014 1502
Cyclohexane	50	44		1	87	70-130	08/04/2014 1502
1,2-Dibromo-3-chloropropane (DBCP)	50	49		1	97	70-130	08/04/2014 1502
Dibromochloromethane	50	48		1	96	70-130	08/04/2014 1502
1,2-Dibromoethane (EDB)	50	46		1	93	70-130	08/04/2014 1502
1,4-Dichlorobenzene	50	49		1	98	70-130	08/04/2014 1502
1,2-Dichlorobenzene	50	48		1	97	70-130	08/04/2014 1502
1,3-Dichlorobenzene	50	49		1	97	70-130	08/04/2014 1502
Dichlorodifluoromethane	50	46		1	93	60-140	08/04/2014 1502
1,2-Dichloroethane	50	41		1	81	70-130	08/04/2014 1502
1,1-Dichloroethane	50	47		1	93	70-130	08/04/2014 1502
trans-1,2-Dichloroethene	50	48		1	95	70-130	08/04/2014 1502
1,1-Dichloroethene	50	48		1	96	70-130	08/04/2014 1502
cis-1,2-Dichloroethene	50	46		1	93	70-130	08/04/2014 1502
1,2-Dichloropropane	50	49		1	97	70-130	08/04/2014 1502
trans-1,3-Dichloropropene	50	48		1	96	70-130	08/04/2014 1502
cis-1,3-Dichloropropene	50	49		1	97	70-130	08/04/2014 1502
Ethylbenzene	50	50		1	100	70-130	08/04/2014 1502
2-Hexanone	100	88		1	88	60-140	08/04/2014 1502
Isopropylbenzene	50	53		1	106	70-130	08/04/2014 1502
Methyl acetate	50	47		1	93	70-130	08/04/2014 1502
Methyl tertiary butyl ether (MTBE)	50	44		1	89	70-130	08/04/2014 1502
4-Methyl-2-pentanone	100	88		1	88	60-140	08/04/2014 1502
Methylcyclohexane	50	47		1	93	70-130	08/04/2014 1502
Methylene chloride	50	44		1	87	70-130	08/04/2014 1502
Styrene	50	49		1	98	70-130	08/04/2014 1502
1,1,2,2-Tetrachloroethane	50	50		1	99	70-130	08/04/2014 1502
Tetrachloroethene	50	49		1	99	70-130	08/04/2014 1502
Toluene	50	50		1	99	70-130	08/04/2014 1502
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	48		1	96	70-130	08/04/2014 1502
1,2,4-Trichlorobenzene	50	51		1	102	70-130	08/04/2014 1502
1,1,1-Trichloroethane	50	47		1	93	70-130	08/04/2014 1502
1,1,2-Trichloroethane	50	47		1	94	70-130	08/04/2014 1502

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the PQL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

# Volatile Organic Compounds by GC/MS - LCS

Sample ID: PQ53224-002

Matrix: Aqueous

Batch: 53224

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Trichloroethene	50	49		1	98	70-130	08/04/2014 1502
Trichlorofluoromethane	50	51		1	102	60-140	08/04/2014 1502
Vinyl chloride	50	46		1	91	60-140	08/04/2014 1502
Xylenes (total)	100	100		1	100	70-130	08/04/2014 1502
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		100	70-130				
1,2-Dichloroethane-d4		81	70-130				
Toluene-d8		95	70-130				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the PQL

J = Estimated result < PQL and  $\geq$  MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

## Volatile Organic Compounds by GC/MS - LCSD

Sample ID: PQ53224-003

Matrix: Aqueous

Batch: 53224

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Acetone	100	100		1	102	7.0	60-140	20	08/04/2014 1525
Benzene	50	48		1	95	0.96	70-130	20	08/04/2014 1525
Bromodichloromethane	50	47		1	95	4.5	70-130	20	08/04/2014 1525
Bromoform	50	48		1	97	2.4	70-130	20	08/04/2014 1525
Bromomethane (Methyl bromide)	50	42		1	85	0.42	60-140	20	08/04/2014 1525
2-Butanone (MEK)	100	110		1	105	6.4	60-140	20	08/04/2014 1525
Carbon disulfide	50	47		1	94	2.4	60-140	20	08/04/2014 1525
Carbon tetrachloride	50	46		1	92	1.8	70-130	20	08/04/2014 1525
Chlorobenzene	50	49		1	97	0.33	70-130	20	08/04/2014 1525
Chloroethane	50	48		1	97	0.72	42-163	20	08/04/2014 1525
Chloroform	50	48		1	95	3.0	70-130	20	08/04/2014 1525
Chloromethane (Methyl chloride)	50	45		1	89	0.33	20-158	20	08/04/2014 1525
Cyclohexane	50	45		1	89	2.4	70-130	20	08/04/2014 1525
1,2-Dibromo-3-chloropropane (DBCP)	50	46		1	91	6.5	70-130	20	08/04/2014 1525
Dibromochloromethane	50	47		1	94	1.4	70-130	20	08/04/2014 1525
1,2-Dibromoethane (EDB)	50	47		1	94	2.1	70-130	20	08/04/2014 1525
1,4-Dichlorobenzene	50	48		1	96	1.5	70-130	20	08/04/2014 1525
1,2-Dichlorobenzene	50	48		1	96	0.41	70-130	20	08/04/2014 1525
1,3-Dichlorobenzene	50	48		1	97	0.76	70-130	20	08/04/2014 1525
Dichlorodifluoromethane	50	44		1	89	4.4	60-140	20	08/04/2014 1525
1,2-Dichloroethane	50	47		1	94	14	70-130	20	08/04/2014 1525
1,1-Dichloroethane	50	47		1	94	0.99	70-130	20	08/04/2014 1525
trans-1,2-Dichloroethene	50	47		1	95	0.62	70-130	20	08/04/2014 1525
1,1-Dichloroethene	50	48		1	96	0.11	70-130	20	08/04/2014 1525
cis-1,2-Dichloroethene	50	47		1	94	1.0	70-130	20	08/04/2014 1525
1,2-Dichloropropane	50	48		1	97	0.31	70-130	20	08/04/2014 1525
trans-1,3-Dichloropropene	50	48		1	96	0.39	70-130	20	08/04/2014 1525
cis-1,3-Dichloropropene	50	48		1	95	2.2	70-130	20	08/04/2014 1525
Ethylbenzene	50	50		1	100	0.63	70-130	20	08/04/2014 1525
2-Hexanone	100	92		1	92	3.9	60-140	20	08/04/2014 1525
Isopropylbenzene	50	50		1	99	6.7	70-130	20	08/04/2014 1525
Methyl acetate	50	47		1	94	1.1	70-130	20	08/04/2014 1525
Methyl tertiary butyl ether (MTBE)	50	47		1	95	6.6	70-130	20	08/04/2014 1525
4-Methyl-2-pentanone	100	88		1	88	0.11	60-140	20	08/04/2014 1525
Methylcyclohexane	50	44		1	88	6.1	70-130	20	08/04/2014 1525
Methylene chloride	50	44		1	88	1.1	70-130	20	08/04/2014 1525
Styrene	50	49		1	98	0.36	70-130	20	08/04/2014 1525
1,1,2,2-Tetrachloroethane	50	47		1	95	4.2	70-130	20	08/04/2014 1525
Tetrachloroethene	50	47		1	95	4.0	70-130	20	08/04/2014 1525
Toluene	50	49		1	97	1.9	70-130	20	08/04/2014 1525
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	47		1	93	2.4	70-130	20	08/04/2014 1525
1,2,4-Trichlorobenzene	50	48		1	97	5.2	70-130	20	08/04/2014 1525
1,1,1-Trichloroethane	50	47		1	94	0.53	70-130	20	08/04/2014 1525
1,1,2-Trichloroethane	50	47		1	94	0.35	70-130	20	08/04/2014 1525

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the PQL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

## Volatile Organic Compounds by GC/MS - LCSD

Sample ID: PQ53224-003

Matrix: Aqueous

Batch: 53224

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Trichloroethene	50	46		1	93	5.6	70-130	20	08/04/2014 1525
Trichlorofluoromethane	50	48		1	97	5.0	60-140	20	08/04/2014 1525
Vinyl chloride	50	45		1	90	1.2	60-140	20	08/04/2014 1525
Xylenes (total)	100	98		1	98	1.8	70-130	20	08/04/2014 1525

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		97	70-130
1,2-Dichloroethane-d4		85	70-130
Toluene-d8		96	70-130

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the PQL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

# Volatile Organic Compounds by GC/MS - Duplicate

Sample ID: PG25011-002DU

Batch: 53224

Analytical Method: 8260B

Matrix: Aqueous

Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Result (ug/L)	Q	Dil	% RPD	% RPD Limit	Analysis Date
Acetone	ND	ND		1	0.00	20	08/05/2014 0047
Benzene	ND	ND		1	0.00	20	08/05/2014 0047
Bromodichloromethane	ND	ND		1	0.00	20	08/05/2014 0047
Bromoform	ND	ND		1	0.00	20	08/05/2014 0047
Bromomethane (Methyl bromide)	ND	ND		1	0.00	20	08/05/2014 0047
2-Butanone (MEK)	ND	ND		1	0.00	20	08/05/2014 0047
Carbon disulfide	ND	ND		1	0.00	20	08/05/2014 0047
Carbon tetrachloride	ND	ND		1	0.00	20	08/05/2014 0047
Chlorobenzene	ND	ND		1	0.00	20	08/05/2014 0047
Chloroethane	ND	ND		1	0.00	20	08/05/2014 0047
Chloroform	ND	ND		1	0.00	20	08/05/2014 0047
Chloromethane (Methyl chloride)	ND	ND		1	0.00	20	08/05/2014 0047
Cyclohexane	ND	ND		1	0.00	20	08/05/2014 0047
1,2-Dibromo-3-chloropropane (DBCP)	ND	ND		1	0.00	20	08/05/2014 0047
Dibromochloromethane	ND	ND		1	0.00	20	08/05/2014 0047
1,2-Dibromoethane (EDB)	ND	ND		1	0.00	20	08/05/2014 0047
1,2-Dichlorobenzene	ND	ND		1	0.00	20	08/05/2014 0047
1,3-Dichlorobenzene	ND	ND		1	0.00	20	08/05/2014 0047
1,4-Dichlorobenzene	ND	ND		1	0.00	20	08/05/2014 0047
Dichlorodifluoromethane	ND	ND		1	0.00	20	08/05/2014 0047
1,1-Dichloroethane	ND	ND		1	0.00	20	08/05/2014 0047
1,2-Dichloroethane	ND	ND		1	0.00	20	08/05/2014 0047
1,1-Dichloroethene	ND	ND		1	0.00	20	08/05/2014 0047
cis-1,2-Dichloroethene	ND	ND		1	0.00	20	08/05/2014 0047
trans-1,2-Dichloroethene	ND	ND		1	0.00	20	08/05/2014 0047
1,2-Dichloropropane	ND	ND		1	0.00	20	08/05/2014 0047
cis-1,3-Dichloropropene	ND	ND		1	0.00	20	08/05/2014 0047
trans-1,3-Dichloropropene	ND	ND		1	0.00	20	08/05/2014 0047
Ethylbenzene	ND	ND		1	0.00	20	08/05/2014 0047
2-Hexanone	ND	ND		1	0.00	20	08/05/2014 0047
Isopropylbenzene	ND	ND		1	0.00	20	08/05/2014 0047
Methyl acetate	ND	ND		1	0.00	20	08/05/2014 0047
Methyl tertiary butyl ether (MTBE)	3.0	2.8		1	5.2	20	08/05/2014 0047
4-Methyl-2-pentanone	ND	ND		1	0.00	20	08/05/2014 0047
Methylcyclohexane	ND	ND		1	0.00	20	08/05/2014 0047
Methylene chloride	ND	ND		1	0.00	20	08/05/2014 0047
Styrene	ND	ND		1	0.00	20	08/05/2014 0047
1,1,2,2-Tetrachloroethane	ND	ND		1	0.00	20	08/05/2014 0047
Tetrachloroethene	ND	ND		1	0.00	20	08/05/2014 0047
Toluene	ND	ND		1	0.00	20	08/05/2014 0047
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ND		1	0.00	20	08/05/2014 0047
1,2,4-Trichlorobenzene	ND	ND		1	0.00	20	08/05/2014 0047
1,1,1-Trichloroethane	ND	ND		1	0.00	20	08/05/2014 0047
1,1,2-Trichloroethane	ND	ND		1	0.00	20	08/05/2014 0047

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the PQL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

## Volatile Organic Compounds by GC/MS - Duplicate

Sample ID: PG25011-002DU

Matrix: Aqueous

Batch: 53224

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Sample Amount (ug/L)	Result (ug/L)	Q	Dil	% RPD	% RPD Limit	Analysis Date
Trichloroethene	ND	ND		1	0.00	20	08/05/2014 0047
Trichlorofluoromethane	ND	ND		1	0.00	20	08/05/2014 0047
Vinyl chloride	ND	ND		1	0.00	20	08/05/2014 0047
Xylenes (total)	ND	ND		1	0.00	20	08/05/2014 0047
Surrogate	Q	% Rec	Acceptance Limit				
1,2-Dichloroethane-d4		95	70-130				
Bromofluorobenzene		101	70-130				
Toluene-d8		94	70-130				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the PQL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W".

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

# Volatile Organic Compounds by GC/MS - MS

Sample ID: PG25011-003MS

Batch: 53224

Analytical Method: 8260B

Matrix: Aqueous

Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	ND	100	140	N	1	144	60-140	08/05/2014 0111
Benzene	ND	50	52		1	103	70-130	08/05/2014 0111
Bromodichloromethane	ND	50	59		1	119	70-130	08/05/2014 0111
Bromoform	ND	50	56		1	112	70-130	08/05/2014 0111
Bromomethane (Methyl bromide)	ND	50	49		1	98	60-140	08/05/2014 0111
2-Butanone (MEK)	ND	100	120		1	125	60-140	08/05/2014 0111
Carbon disulfide	ND	50	63		1	126	60-140	08/05/2014 0111
Carbon tetrachloride	ND	50	59		1	119	70-130	08/05/2014 0111
Chlorobenzene	ND	50	52		1	104	70-130	08/05/2014 0111
Chloroethane	ND	50	60		1	119	42-163	08/05/2014 0111
Chloroform	ND	50	60		1	121	70-130	08/05/2014 0111
Chloromethane (Methyl chloride)	ND	50	55		1	109	20-158	08/05/2014 0111
Cyclohexane	ND	50	67	N	1	134	70-130	08/05/2014 0111
1,2-Dibromo-3-chloropropane (DBCP)	ND	50	50		1	99	70-130	08/05/2014 0111
Dibromochloromethane	ND	50	59		1	118	70-130	08/05/2014 0111
1,2-Dibromoethane (EDB)	ND	50	58		1	115	70-130	08/05/2014 0111
1,2-Dichlorobenzene	ND	50	52		1	103	70-130	08/05/2014 0111
1,3-Dichlorobenzene	ND	50	51		1	102	70-130	08/05/2014 0111
1,4-Dichlorobenzene	ND	50	50		1	100	70-130	08/05/2014 0111
Dichlorodifluoromethane	ND	50	61		1	123	60-140	08/05/2014 0111
1,1-Dichloroethane	ND	50	62		1	125	70-130	08/05/2014 0111
1,2-Dichloroethane	ND	50	59		1	119	70-130	08/05/2014 0111
1,1-Dichloroethene	ND	50	64		1	129	70-130	08/05/2014 0111
cis-1,2-Dichloroethene	ND	50	60		1	119	70-130	08/05/2014 0111
trans-1,2-Dichloroethene	ND	50	62		1	123	70-130	08/05/2014 0111
1,2-Dichloropropane	ND	50	59		1	117	70-130	08/05/2014 0111
cis-1,3-Dichloropropene	ND	50	58		1	116	70-130	08/05/2014 0111
trans-1,3-Dichloropropene	ND	50	56		1	113	70-130	08/05/2014 0111
Ethylbenzene	ND	50	53		1	106	70-130	08/05/2014 0111
2-Hexanone	ND	100	110		1	114	60-140	08/05/2014 0111
Isopropylbenzene	ND	50	48		1	97	70-130	08/05/2014 0111
Methyl acetate	ND	50	56		1	112	15-128	08/05/2014 0111
Methyl tertiary butyl ether (MTBE)	ND	50	60		1	120	70-130	08/05/2014 0111
4-Methyl-2-pentanone	ND	100	110		1	115	60-140	08/05/2014 0111
Methylcyclohexane	ND	50	56		1	113	70-130	08/05/2014 0111
Methylene chloride	ND	50	59		1	118	70-130	08/05/2014 0111
Styrene	ND	50	54		1	107	70-130	08/05/2014 0111
1,1,2,2-Tetrachloroethane	ND	50	50		1	100	70-130	08/05/2014 0111
Tetrachloroethene	ND	50	58		1	116	70-130	08/05/2014 0111
Toluene	ND	50	59		1	117	70-130	08/05/2014 0111
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	66	N	1	132	70-130	08/05/2014 0111
1,2,4-Trichlorobenzene	ND	50	51		1	102	70-130	08/05/2014 0111
1,1,1-Trichloroethane	ND	50	58		1	116	70-130	08/05/2014 0111
1,1,2-Trichloroethane	ND	50	58		1	115	70-130	08/05/2014 0111

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the PQL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

# Volatile Organic Compounds by GC/MS - MS

Sample ID: PG25011-003MS

Matrix: Aqueous

Batch: 53224

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Trichloroethene	ND	50	54		1	107	70-130	08/05/2014 0111
Trichlorofluoromethane	ND	50	66		1	133	60-140	08/05/2014 0111
Vinyl chloride	ND	50	58		1	115	60-140	08/05/2014 0111
Xylenes (total)	ND	100	110		1	107	70-130	08/05/2014 0111

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		101	70-130
Bromofluorobenzene		105	70-130
Toluene-d8		105	70-130

PQL = Practical quantitation limit  
 ND = Not detected at or above the PQL  
 P = The RPD between two GC columns exceeds 40%  
 J = Estimated result < PQL and ≥ MDL  
 N = Recovery is out of criteria  
 + = RPD is out of criteria  
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

# TAL Metals - MB

Sample ID: PQ52591-001

Batch: 52591

Analytical Method: 6010C

Matrix: Aqueous

Prep Method: 3005A

Prep Date: 07/29/2014 1239

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Aluminum	ND		1	0.20	mg/L	07/31/2014 0213
Arsenic	ND		1	0.010	mg/L	07/29/2014 2345
Barium	ND		1	0.025	mg/L	07/29/2014 2345
Cadmium	ND		1	0.0020	mg/L	07/29/2014 2345
Chromium	ND		1	0.0050	mg/L	07/29/2014 2345
Copper	ND		1	0.0050	mg/L	07/29/2014 2345
Iron	ND		1	0.10	mg/L	07/29/2014 2345
Lead	ND		1	0.010	mg/L	07/29/2014 2345
Magnesium	ND		1	5.0	mg/L	07/29/2014 2345
Manganese	ND		1	0.015	mg/L	07/29/2014 2345
Nickel	ND		1	0.040	mg/L	07/29/2014 2345
Silver	ND		1	0.0050	mg/L	07/29/2014 2345
Zinc	ND		1	0.020	mg/L	07/29/2014 2345

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the PQL

J = Estimated result < PQL and  $\geq$  MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

## TAL Metals - LCS

Sample ID: PQ52591-002

Matrix: Aqueous

Batch: 52591

Prep Method: 3005A

Analytical Method: 6010C

Prep Date: 07/29/2014 1239

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Aluminum	20	21		1	107	80-120	07/31/2014 0217
Arsenic	0.40	0.43		1	108	80-120	07/29/2014 2349
Barium	2.0	2.0		1	102	80-120	07/29/2014 2349
Cadmium	0.40	0.42		1	106	80-120	07/29/2014 2349
Chromium	2.0	2.1		1	106	80-120	07/29/2014 2349
Copper	2.0	2.0		1	102	80-120	07/29/2014 2349
Iron	20	21		1	105	80-120	07/29/2014 2349
Lead	0.40	0.43		1	108	80-120	07/29/2014 2349
Magnesium	40	41		1	102	80-120	07/29/2014 2349
Manganese	2.0	2.1		1	107	80-120	07/29/2014 2349
Nickel	2.0	2.1		1	104	80-120	07/29/2014 2349
Silver	0.40	0.43		1	108	80-120	07/29/2014 2349
Zinc	2.0	2.2		1	110	80-120	07/29/2014 2349

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the PQL

J = Estimated result < PQL and  $\geq$  MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

## TAL Metals - LCSD

Sample ID: PQ52591-003

Matrix: Aqueous

Batch: 52591

Prep Method: 3005A

Analytical Method: 6010C

Prep Date: 07/29/2014 1239

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Aluminum	20	21		1	107	0.070	80-120	20	07/31/2014 0221
Arsenic	0.40	0.43		1	107	0.50	80-120	20	07/29/2014 2353
Barium	2.0	2.1		1	103	0.40	80-120	20	07/29/2014 2353
Cadmium	0.40	0.42		1	106	0.29	80-120	20	07/29/2014 2353
Chromium	2.0	2.1		1	106	0.15	80-120	20	07/29/2014 2353
Copper	2.0	2.1		1	104	1.2	80-120	20	07/29/2014 2353
Iron	20	21		1	106	0.78	80-120	20	07/29/2014 2353
Lead	0.40	0.43		1	109	0.56	80-120	20	07/29/2014 2353
Magnesium	40	41		1	104	1.4	80-120	20	07/29/2014 2353
Manganese	2.0	2.2		1	108	0.59	80-120	20	07/29/2014 2353
Nickel	2.0	2.1		1	104	0.24	80-120	20	07/29/2014 2353
Silver	0.40	0.44		1	109	0.28	80-120	20	07/29/2014 2353
Zinc	2.0	2.2		1	111	0.029	80-120	20	07/29/2014 2353

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the PQL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

# TAL Metals - MB

Sample ID: PQ52693-001

Batch: 52693

Analytical Method: 7470A

Matrix: Aqueous

Prep Method: 7470A

Prep Date: 07/30/2014 924

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Mercury	ND		1	0.00010	mg/L	07/30/2014 1607

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the PQL

J = Estimated result < PQL and  $\geq$  MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

# TAL Metals - LCS

Sample ID: PQ52693-002

Batch: 52693

Analytical Method: 7470A

Matrix: Aqueous

Prep Method: 7470A

Prep Date: 07/30/2014 924

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Mercury	0.0020	0.0022		1	109	85-115	07/30/2014 1609

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the PQL

J = Estimated result < PQL and  $\geq$  MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

# TAL Metals - LCSD

Sample ID: PQ52693-003

Batch: 52693

Analytical Method: 7470A

Matrix: Aqueous

Prep Method: 7470A

Prep Date: 07/30/2014 924

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Mercury	0.0020	0.0021		1	105	3.7	85-115	20	07/30/2014 1612

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the PQL

J = Estimated result < PQL and  $\geq$  MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

**Note: Calculations are performed before rounding to avoid round-off errors in calculated results**

# SHEALY ENVIRONMENTAL SERVICES, INC.

**Number 18384**

Shealy Environmental Services, Inc.  
106 Vantage Point Drive  
West Columbia, South Carolina 29172  
Telephone No. (803) 791-9700 Fax No. (803) 791-9111  
www.shealylab.com

**Chain of Custody Record**



Client <b>MCORNE - DWM</b>	Report to Contact <b>VINCE ANTONI</b>	Sampler (Printed Name) <b>LATY PIERCE</b>	Quote No.	Page <b>1</b> of <b>1</b>	Number of Containers <b>1</b>	Bottle (See Instructions on back) <b>PG25011</b>	Preservative
Address <b>217 W. JONES ST</b>		Telephone No. / Fax No. / Email <b>919-707-6553</b>		Waybill No.		Barcode	
City <b>RALEIGH NC 27603</b>	State <b>NC</b>	Zip Code <b>27603</b>	Preservative		Matrix		
Project Name <b>ALLEN LANE CPA WARE</b>			1. Unpres 4. HNO3 7. NaOH		2. NaOH/2HA 5. HCL		
Project Number <b>NONC00002879</b>			3. H2SO4 6. Na THA		Other		
Sample ID / Description (Containers for each sample may be combined on one line)			Date	Time	Analysis		
<b>TRIP BLANK</b>			<b>7/25/14</b>		<b>MS</b>		
<b>150 GSI</b>				<b>942</b>	<b>MS</b>		
<b>191 GSI</b>				<b>1005</b>	<b>MS</b>		
<b>208 SIELTAYLOR</b>				<b>1040</b>	<b>MS</b>		
<b>722 TAYLOR</b>				<b>1006</b>	<b>MS</b>		
<b>3014 HUSFOS</b>				<b>1332</b>	<b>MS</b>		
Turn Around Time Required (Prior lab approval required for expedited TAT)			Standard <input type="checkbox"/> Rush (Fees Apply)		Possible Hazard Identification		
1. Relinquished by / Sample <b>Laty Pierce</b>			Date <b>7/24/14</b>		Chlor Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input type="checkbox"/> Unknown <input type="checkbox"/>		
2. Relinquished by			Date		1. Received by		
3. Relinquished by			Date		2. Received by		
4. Relinquished by <b>FedEx</b>			Date <b>7/25/14</b>		3. Received by		
Note: All samples are retained for six weeks from receipt unless other arrangements are made.			Date <b>7/25/14</b>		4. Laboratory Received by <b>Charles...</b>		
LAB USE ONLY			Received on (ies) (Check) <input type="checkbox"/> Yes <input type="checkbox"/> No		Receipt Temp. <b>3.5</b> °C		
			Temp. Blank <b>1360</b>		Temp. Blank <b>1360</b>		

# SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc.  
 Document Number: F-AD-016  
 Revision Number: 15

Page 1 of 1  
 Replaces Date: 03/07/14  
 Effective Date: 07/15/14

## Sample Receipt Checklist (SRC)

Client: ACCORNE - DWM Cooler Inspected by/date: CAIT / 7/25/14 Lot #: PG75011

Means of receipt: <input type="checkbox"/> SESI <input type="checkbox"/> Client <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Airborne Exp <input type="checkbox"/> Other		
Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	1. Were custody seals present on the cooler?
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/> 2. If custody seals were present, were they intact and unbroken?
Cooler ID/Original temperature upon receipt/Derived (corrected) temperature upon receipt: <u>1360 / 13.4 / 3.5</u> °C / / °C / / °C		
Method: <input checked="" type="checkbox"/> Temperature Blank <input type="checkbox"/> Against Bottles IR Gun ID: #3 IR Gun Correction Factor: <u>10.1</u> °C		
Method of coolant: <input checked="" type="checkbox"/> Wet Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> Dry Ice <input type="checkbox"/> None		
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/> 3. If temperature of any cooler exceeded 6.0°C, was Project Manager notified? PM notified by SRC, phone, note (circle one), other: _____ (For coolers received via commercial courier, PMs are to be notified immediately.)
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/> 4. Is the commercial courier's packing slip attached to this form?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	5. Were proper custody procedures (relinquished/received) followed?
Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	NA <input type="checkbox"/> 5a Were samples relinquished by client to commercial courier?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	6. Were sample IDs listed on the COC?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	7. Were sample IDs listed on all sample containers?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	8. Was collection date & time listed on the COC?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	9. Was collection date & time listed on all sample containers?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	10. Did all container label information (ID, date, time) agree with the COC?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	11. Were tests to be performed listed on the COC?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	12. Did all samples arrive in the proper containers for each test?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	13. Did all containers arrive in good condition (unbroken, lids on, etc.)?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	14. Was adequate sample volume available?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	15. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	16. Were any samples containers missing?
Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	17. Were there any excess samples not listed on COC?
Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	NA <input type="checkbox"/> 18. Were bubbles present > "pea-size" (¼" or 6mm in diameter) in any VOA vials?
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/> 19. Were all metals/O&G/HEM/nutrient samples received at a pH of <2?
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/> 20. Were all cyanide and/or sulfide samples received at a pH >12?
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/> 21. Were all applicable NH <sub>3</sub> /TKN/cyanide/phenol (<0.2mg/L) samples free of residual chlorine?
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/> 22. Were collection temperatures documented on the COC for NC samples?
Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/> 23. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc...) correctly transcribed from the COC into the comment section in LIMS?
Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	24. Was the quote number used taken from the container label?
<b>Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)</b>		
Sample(s) _____ were received incorrectly preserved and were adjusted accordingly in sample receiving with _____ (H <sub>2</sub> SO <sub>4</sub> , HNO <sub>3</sub> , HCl, NaOH) using SR # _____		
Sample(s) _____ were received with bubbles >6 mm in diameter.		
Sample(s) _____ were received with TRC >0.2 mg/L (If #21 is No)		
SC Drinking Water Project Sample(s) pH verified to be > 2 by _____ Date: _____		
Sample(s) _____ were not received at a pH of <2 and were adjusted accordingly using SR# _____		
Sample labels applied by: <u>CAIT</u> Verified by: _____ Date: <u>7/25/14</u>		

Comments:



**North Carolina Department of Environment and Natural Resources**  
Division of Waste Management

**MEMORANDUM**

Date: July 30, 2014

To: File

From: Vince Antrilli  
Raleigh Regional Office  
Inactive Hazardous Sites Branch

Re: Taylor Rd Wells (formerly Frances Gann Property) – Sampling Trip Summary  
NONCD0002879

- 
- Wade Kirby & Bobby Lutfy visited the site on July 24, 2014 to perform well sampling in the area. They sampled the addresses list below:
    - 190 GSI Dr
    - 191 GSI Dr
    - 208 Belthrop Rd
    - 722 Taylor Rd
  - Permission to sample this well was received after site sampling trip occurred earlier in the month.
  - The samples collected were sent to Shealy Lab on July 24, 2014.

# Well Log Sheet

Site Name: Frances Gann Property  
 Site Id #: NONCD 0002879  
 Owner Name: Larry + Judy White  
 Well Address: 190 GSI Drive  
 Well ID #: 190 GSI

Weather  
 Temp: 72°f  
 Wind: calm  
 Percip: cloudy + lt. rain

Coordinates: \_\_\_\_\_ N  
 \_\_\_\_\_ E

Date: 7-24-14  
 Sample Team: Kirby + Lutfy

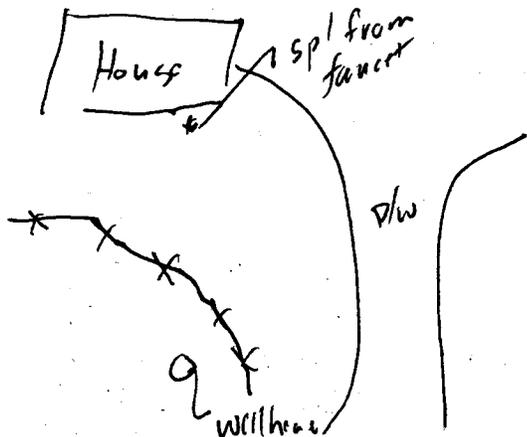
Comments (well construction, etc.) Well head in cow pasture so spl from faucet in front of house

Time Interval	5 Min	10 Min	15 Min	20 Min	25 Min
Temp (°C)	<u>22.6</u>	<u>20.5</u>	<u>19.1</u>	_____	_____
pH	<u>7.09</u>	<u>7.03</u>	<u>6.99</u>	_____	_____
S.C.	<u>269</u>	<u>265</u>	<u>257</u>	_____	_____
Turbidity	<u>5.25</u>	<u>8.68</u>	<u>12.5</u>	_____	_____

Time Sample Collected: 942

Water Condition (turbidity, color, odor): clear

Lot Layout



Samples Collected:

- VOCs (3 - 40ml vials)
- 1,4 Dioxane (3 - 40ml vials)
- SVOCs/PCBs (1 - 2L Amber bottle)
- Metals (1 - 1L HDPE bottle)
- Dioxin (1 - 1L bottle)
- Pest./Herb. (1 - 2L Amber bottle)

Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

# Well Log Sheet

Site Name: Frances Gann Property  
 Site Id #: NONCD 0002879  
 Owner Name: Larry + Judy White  
 Well Address: 191 GSI Drive  
 Well ID #: 191 GSI

Weather  
 Temp: 73°  
 Wind: calm  
 Percip: cloudy w/ lt. rain  
 Date: 7-24-14

Coordinates: \_\_\_\_\_ N  
 \_\_\_\_\_ E

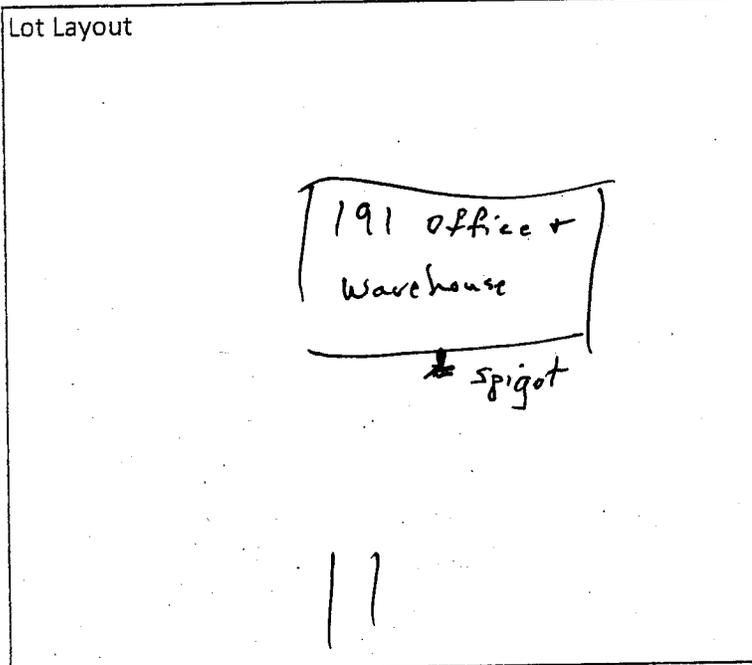
Sample Team: Kirby + Latty

Comments (well construction, etc.) Sampled spigot in front of warehouse/office  
Well is in cow pasture, different from  
190 GSI. (Resident @ 187 GSI is on same well as 191 GSI)

Time Interval	5 Min	10 Min	15 Min	20 Min	25 Min
Temp (°C)	<u>24.1</u>	<u>24.1</u>	<u>24.0</u>	_____	_____
pH	<u>5.94</u>	<u>5.97</u>	<u>5.95</u>	_____	_____
S.C.	<u>83.0</u>	<u>83.3</u>	<u>83.7</u>	_____	_____
Turbidity	<u>1.84</u>	<u>1.22</u>	<u>0.45</u>	_____	_____

Time Sample Collected: 1005

Water Condition (turbidity, color, odor): clear



- Samples Collected:
- VOCs (3 - 40ml vials)
  - 1,4 Dioxane (3 - 40ml vials)
  - SVOCs/PCBs (1 - 2L Amber bottle)
  - Metals (1 - 1L HDPE bottle)
  - Dioxin (1 - 1L bottle)
  - Pest./Herb. (1 - 2L Amber bottle)

Comments: Well located in  
cow pasture

## Well Log Sheet

Site Name: Frances Gann Property  
 Site ID #: NO NCD 000 2879  
 Owner Name: Susan Scales  
 Well Address: 208 Belthrop Road  
 Well ID #: 208 Belthrop

Weather  
 Temp: 73°  
 Wind: calm  
 Percip: cloudy  
 Date: 7-24-14  
 Sample Team: Kirby + Luffy

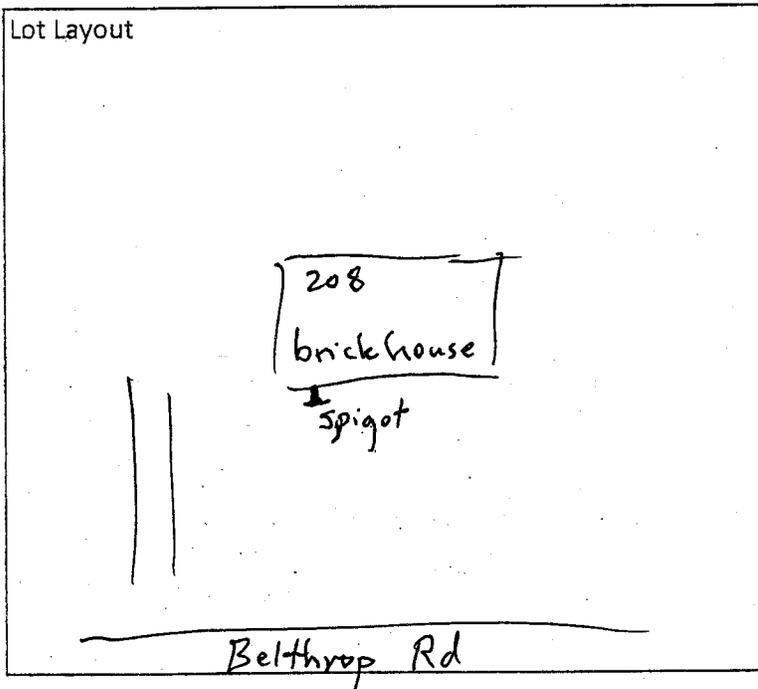
Coordinates: \_\_\_\_\_ N  
 \_\_\_\_\_ E

Comments (well construction, etc.) sampled spigot at front of house  
(could not locate well)

Time Interval	5 Min	10 Min	15 Min	20 Min	25 Min
Temp (°C)	<u>15.6</u>	<u>16.0</u>	<u>15.8</u>	_____	_____
pH	<u>5.73</u>	<u>5.69</u>	<u>5.69</u>	_____	_____
S.C.	<u>151.0</u>	<u>147.7</u>	<u>152.7</u>	_____	_____
Turbidity	<u>2.43</u>	<u>3.12</u>	<u>4.09</u>	_____	_____

Time Sample Collected: 1040

Water Condition (turbidity, color, odor): clear



Samples Collected:

- VOCs (3 - 40ml vials)
- 1,4 Dioxane (3 - 40ml vials)
- SVOCs/PCBs (1 - 2L Amber bottle)
- Metals (1 - 1L HDPE bottle)
- Dioxin (1 - 1L bottle)
- Pest./Herb. (1 - 2L Amber bottle)

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

## Well Log Sheet

Site Name: Frances Gann Property  
 Site Id #: NONCO 000 2879  
 Owner Name: Ray Tuggle  
 Well Address: 722 Taylor Road  
 Well ID #: 722 Taylor

Weather  
 Temp: 78°  
 Wind: calm  
 Percip: mostly cloudy  
 Date: 7-24-14  
 Sample Team: Kirby + Luffy

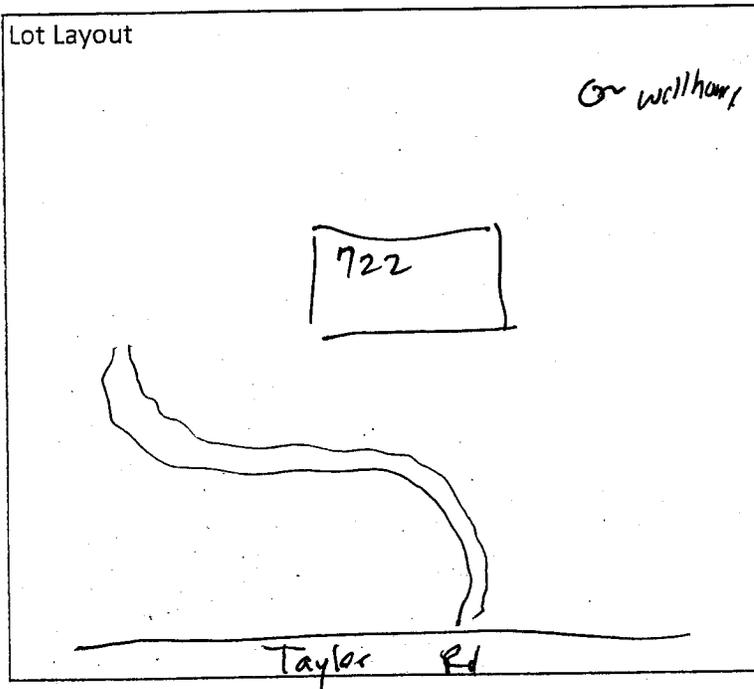
Coordinates: \_\_\_\_\_ N  
 \_\_\_\_\_ E

Comments (well construction, etc.) sampled from well house

Time Interval	5 Min	10 Min	15 Min	20 Min	25 Min
Temp (°C)	<u>15.0</u>	<u>14.8</u>	<u>14.8</u>	_____	_____
pH	<u>6.20</u>	<u>6.24</u>	<u>6.22</u>	_____	_____
S.C.	<u>236</u>	<u>237</u>	<u>236</u>	_____	_____
Turbidity	<u>74.8</u>	<u>53.5</u>	<u>63.5</u>	_____	_____

Time Sample Collected: 1108

Water Condition (turbidity, color, odor): clear



- Samples Collected:
- VOCs (3 - 40ml vials)
  - 1,4 Dioxane (3 - 40ml vials)
  - SVOCs/PCBs (1 - 2L Amber bottle)
  - Metals (1 - 1L HDPE bottle)
  - Dioxin (1 - 1L bottle)
  - Pest./Herb. (1 - 2L Amber bottle)

Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_





North Carolina Department of Environment and Natural Resources

Pat McCrory  
Governor

John E. Skvarla, III  
Secretary

July 10, 2014

Roger and Julie White  
PO Box 270  
Stoneville, NC 27048

RE: Water Supply Well Sampling – Frances Gann Property site (NONCD0002879)

Dear Mr. and Mrs. White:

My name is Vincent Antrilli and I work for the Division of Waste Management of the State of North Carolina's Department of Environment and Natural Resources. The purpose of this letter is to request your permission to sample the well(s) located at **187 GSI Drive in Stoneville, Rockingham County**, as part of an investigation of groundwater contamination detected in your area. You do not have to be present to have your well sampled and there is no cost to you. Samples will be collected from either a faucet at the well or on the exterior of your home. The laboratory results will be forwarded to you as soon as possible.

Please contact me by one of the following ways to confirm that *we may* collect a sample from your well. You can reach me by calling (919) 707-8353, emailing me at [Vincent.Antrilli@ncdenr.gov](mailto:Vincent.Antrilli@ncdenr.gov) or by responding to this letter stating that you are granting permission for the State to sample your well. **If you have any questions, comments, or concerns, please contact me.**

Sincerely,

*Vincent Antrilli, Jr.*

Vincent Antrilli, Jr.  
Environmental Specialist  
Inactive Hazardous Sites Branch  
Superfund Section



North Carolina Department of Environment and Natural Resources

Pat McCrory  
Governor

John E. Skvarla, III  
Secretary

July 10, 2014

Jeff and Michael II Scales  
Anthony Cardwell and Others  
124 Elsie Lane  
Stoneville, NC 27048

RE: Water Supply Well Sampling – Frances Gann Property site (NONCD0002879)

Dear Current Resident:

My name is Vincent Antrilli and I work for the Division of Waste Management of the State of North Carolina's Department of Environment and Natural Resources. The purpose of this letter is to request your permission to sample the well(s) located at **125 and 135 Elsie Lane in Stoneville, Rockingham County**, as part of an investigation of groundwater contamination detected in your area. You do not have to be present to have your well sampled and there is no cost to you. Samples will be collected from either a faucet at the well or on the exterior of your home. The laboratory results will be forwarded to you as soon as possible.

Please contact me by one of the following ways to confirm that *we may* collect a sample from your well. You can reach me by calling **(919) 707-8353**, emailing me at **Vincent.Antrilli@ncdenr.gov** or by responding to this letter stating that you are granting permission for the State to sample your well. **If you have any questions, comments, or concerns, please contact me.**

Sincerely,

*Vincent Antrilli, Jr.*

Vincent Antrilli, Jr.  
Environmental Specialist  
Inactive Hazardous Sites Branch  
Superfund Section



North Carolina Department of Environment and Natural Resources

Pat McCrory  
Governor

John E. Skvarla, III  
Secretary

July 10, 2014

Allen Scales Sr Heirs  
c/o Michael Scales  
3925 Price Road  
Stoneville, NC 27048

RE: Water Supply Well Sampling – Frances Gann Property site (NONCD0002879)

Dear Mr. Scales:

My name is Vincent Antrilli and I work for the Division of Waste Management of the State of North Carolina's Department of Environment and Natural Resources. The purpose of this letter is to request your permission to sample the well(s) located at **115 and 215 Belthrop Road in Stoneville, Rockingham County**, as part of an investigation of groundwater contamination detected in your area. You do not have to be present to have your well sampled and there is no cost to you. Samples will be collected from either a faucet at the well or on the exterior of your home. The laboratory results will be forwarded to you as soon as possible.

Please contact me by one of the following ways to confirm that *we may* collect a sample from your well. You can reach me by calling (919) 707-8353, emailing me at [Vincent.Antrilli@ncdenr.gov](mailto:Vincent.Antrilli@ncdenr.gov) or by responding to this letter stating that you are granting permission for the State to sample your well. **If you have any questions, comments, or concerns, please contact me.**

Sincerely,

*Vincent Antrilli, Jr.*

Vincent Antrilli, Jr.  
Environmental Specialist  
Inactive Hazardous Sites Branch  
Superfund Section



North Carolina Department of Environment and Natural Resources

Pat McCrory  
Governor

John E. Skvarla, III  
Secretary

July 10, 2014

Lee Aiken  
197 Belthrop Road  
Stoneville, NC 27048

RE: Water Supply Well Sampling – Frances Gann Property site (NONCD0002879)

Dear Ms. Aiken:

My name is Vincent Antrilli and I work for the Division of Waste Management of the State of North Carolina's Department of Environment and Natural Resources. The purpose of this letter is to request your permission to sample the well(s) located at **197 Belthrop Road in Stoneville, Rockingham County**, as part of an investigation of groundwater contamination detected in your area. You do not have to be present to have your well sampled and there is no cost to you. Samples will be collected from either a faucet at the well or on the exterior of your home. The laboratory results will be forwarded to you as soon as possible.

Please contact me by one of the following ways to confirm that ***we may*** collect a sample from your well. You can reach me by calling **(919) 707-8353**, emailing me at **[Vincent.Antrilli@ncdenr.gov](mailto:Vincent.Antrilli@ncdenr.gov)** or by responding to this letter stating that you are granting permission for the State to sample your well. **If you have any questions, comments, or concerns, please contact me.**

Sincerely,

*Vincent Antrilli, Jr.*

Vincent Antrilli, Jr.  
Environmental Specialist  
Inactive Hazardous Sites Branch  
Superfund Section



North Carolina Department of Environment and Natural Resources

Pat McCrory  
Governor

John E. Skvarla, III  
Secretary

July 10, 2014

Susan Scales  
208 Belthrop Road  
Stoneville, NC 27048

RE: Water Supply Well Sampling – Frances Gann Property site (NONCD0002879)

Dear Ms. Scales:

My name is Vincent Antrilli and I work for the Division of Waste Management of the State of North Carolina's Department of Environment and Natural Resources. The purpose of this letter is to request your permission to sample the well(s) located at **208 Belthrop Road in Stoneville, Rockingham County**, as part of an investigation of groundwater contamination detected in your area. You do not have to be present to have your well sampled and there is no cost to you. Samples will be collected from either a faucet at the well or on the exterior of your home. The laboratory results will be forwarded to you as soon as possible.

Please contact me by one of the following ways to confirm that *we may* collect a sample from your well. You can reach me by calling **(919) 707-8353**, emailing me at **[Vincent.Antrilli@ncdenr.gov](mailto:Vincent.Antrilli@ncdenr.gov)** or by responding to this letter stating that you are granting permission for the State to sample your well. **If you have any questions, comments, or concerns, please contact me.**

Sincerely,

*Vincent Antrilli, Jr.*

Vincent Antrilli, Jr.  
Environmental Specialist  
Inactive Hazardous Sites Branch  
Superfund Section



North Carolina Department of Environment and Natural Resources

Pat McCrory  
Governor

John E. Skvarla, III  
Secretary

July 10, 2014

Jannie McCullough Estate  
c/o Claudine McCullough  
241 Westmoreland Road  
Stoneville, NC 27048

RE: Water Supply Well Sampling – Frances Gann Property site (NONCD0002879)

Dear Ms. McCullough:

My name is Vincent Antrilli and I work for the Division of Waste Management of the State of North Carolina's Department of Environment and Natural Resources. The purpose of this letter is to request your permission to sample the well(s) located at **184 Belthrop Road in Stoneville, Rockingham County**, as part of an investigation of groundwater contamination detected in your area. You do not have to be present to have your well sampled and there is no cost to you. Samples will be collected from either a faucet at the well or on the exterior of your home. The laboratory results will be forwarded to you as soon as possible.

Please contact me by one of the following ways to confirm that *we may* collect a sample from your well. You can reach me by calling (919) 707-8353, emailing me at [Vincent.Antrilli@ncdenr.gov](mailto:Vincent.Antrilli@ncdenr.gov) or by responding to this letter stating that you are granting permission for the State to sample your well. **If you have any questions, comments, or concerns, please contact me.**

Sincerely,

*Vincent Antrilli, Jr.*

Vincent Antrilli, Jr.  
Environmental Specialist  
Inactive Hazardous Sites Branch  
Superfund Section



North Carolina Department of Environment and Natural Resources

Pat McCrory  
Governor

John E. Skvarla, III  
Secretary

July 10, 2014

Edward Thompson Jr Estate  
c/o Ray Tuggle  
722 Taylor Road  
Stoneville, NC 27048

RE: Water Supply Well Sampling – Frances Gann Property site (NONCD0002879)

Dear Mr. Tuggle:

My name is Vincent Antrilli and I work for the Division of Waste Management of the State of North Carolina's Department of Environment and Natural Resources. The purpose of this letter is to request your permission to sample the well(s) located at **722 Taylor Road in Stoneville, Rockingham County**, as part of an investigation of groundwater contamination detected in your area. You do not have to be present to have your well sampled and there is no cost to you. Samples will be collected from either a faucet at the well or on the exterior of your home. The laboratory results will be forwarded to you as soon as possible.

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North Carolina Department of Environment and Natural Resources

Pat McCrory  
Governor

John E. Skvarla, III  
Secretary

July 10, 2014

Yomia Barham  
684 Taylor Road  
Stoneville, NC 27048

RE: Water Supply Well Sampling – Frances Gann Property site (NONCD0002879)

Dear Ms. Barham:

My name is Vincent Antrilli and I work for the Division of Waste Management of the State of North Carolina's Department of Environment and Natural Resources. The purpose of this letter is to request your permission to sample the well(s) located at **684 and 694 Taylor Road in Stoneville, Rockingham County**, as part of an investigation of groundwater contamination detected in your area. You do not have to be present to have your well sampled and there is no cost to you. Samples will be collected from either a faucet at the well or on the exterior of your home. The laboratory results will be forwarded to you as soon as possible.

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North Carolina Department of Environment and Natural Resources

Pat McCrory  
Governor

John E. Skvarla, III  
Secretary

July 10, 2014

Franklin Moore  
646 Taylor Road  
Stoneville, NC 27048

RE: Water Supply Well Sampling – Frances Gann Property site (NONCD0002879)

Dear Mr. Moore:

My name is Vincent Antrilli and I work for the Division of Waste Management of the State of North Carolina's Department of Environment and Natural Resources. The purpose of this letter is to request your permission to sample the well(s) located at **646 Taylor Road in Stoneville, Rockingham County**, as part of an investigation of groundwater contamination detected in your area. You do not have to be present to have your well sampled and there is no cost to you. Samples will be collected from either a faucet at the well or on the exterior of your home. The laboratory results will be forwarded to you as soon as possible.

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North Carolina Department of Environment and Natural Resources

Pat McCrory  
Governor

John E. Skvarla, III  
Secretary

July 10, 2014

Darrell Broadnax  
656 Taylor Road  
Stoneville, NC 27048

RE: Water Supply Well Sampling – Frances Gann Property site (NONCD0002879)

Dear Mr. Broadnax:

My name is Vincent Antrilli and I work for the Division of Waste Management of the State of North Carolina's Department of Environment and Natural Resources. The purpose of this letter is to request your permission to sample the well(s) located at **656 Taylor Road in Stoneville, Rockingham County**, as part of an investigation of groundwater contamination detected in your area. You do not have to be present to have your well sampled and there is no cost to you. Samples will be collected from either a faucet at the well or on the exterior of your home. The laboratory results will be forwarded to you as soon as possible.

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North Carolina Department of Environment and Natural Resources

Pat McCrory  
Governor

John E. Skvarla, III  
Secretary

July 10, 2014

Franklin and Cynthia Johnson  
760 Taylor Road  
Stoneville, NC 27048

RE: Water Supply Well Sampling – Frances Gann Property site (NONCD0002879)

Dear Mr. and Mrs. Johnson:

My name is Vincent Antrilli and I work for the Division of Waste Management of the State of North Carolina's Department of Environment and Natural Resources. The purpose of this letter is to request your permission to sample the well(s) located at **760 Taylor Road in Stoneville, Rockingham County**, as part of an investigation of groundwater contamination detected in your area. You do not have to be present to have your well sampled and there is no cost to you. Samples will be collected from either a faucet at the well or on the exterior of your home. The laboratory results will be forwarded to you as soon as possible.

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Pat McCrory  
Governor

John E. Skvarla, III  
Secretary

July 10, 2014

Larry and Judy White  
PO Box 385  
Stoneville, NC 27048

RE: Water Supply Well Sampling – Frances Gann Property site (NONCD0002879)

Dear Mr. and Mrs. White:

My name is Vincent Antrilli and I work for the Division of Waste Management of the State of North Carolina's Department of Environment and Natural Resources. The purpose of this letter is to request your permission to sample the well(s) located at **190 and 191 GSI Drive in Stoneville, Rockingham County**, as part of an investigation of groundwater contamination detected in your area. You do not have to be present to have your well sampled and there is no cost to you. Samples will be collected from either a faucet at the well or on the exterior of your home. The laboratory results will be forwarded to you as soon as possible.

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Governor

John E. Skvarla, III  
Secretary

July 10, 2014

William and Frances Gann  
801 Taylor Road  
Stoneville, NC 27048

RE: Water Supply Well Sampling – Frances Gann Property site (NONCD0002879)

Dear Mr. and Mrs. Gann:

My name is Vincent Antrilli and I work for the Division of Waste Management of the State of North Carolina's Department of Environment and Natural Resources. The purpose of this letter is to request your permission to sample the well(s) located at **801 Taylor Road in Stoneville, Rockingham County**, as part of an investigation of groundwater contamination detected in your area. You do not have to be present to have your well sampled and there is no cost to you. Samples will be collected from either a faucet at the well or on the exterior of your home. The laboratory results will be forwarded to you as soon as possible.

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Superfund Section



North Carolina Department of Environment and Natural Resources

Pat McCrory  
Governor

John E. Skvarla, III  
Secretary

July 10, 2014

Norman Farmer  
PO Box 3145  
Stoneville, NC 27048

RE: Water Supply Well Sampling – Frances Gann Property site (NONCD0002879)

Dear Mr. Farmer:

My name is Vincent Antrilli and I work for the Division of Waste Management of the State of North Carolina's Department of Environment and Natural Resources. The purpose of this letter is to request your permission to sample the well(s) located at **927 Taylor Road in Stoneville, Rockingham County**, as part of an investigation of groundwater contamination detected in your area. You do not have to be present to have your well sampled and there is no cost to you. Samples will be collected from either a faucet at the well or on the exterior of your home. The laboratory results will be forwarded to you as soon as possible.

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Inactive Hazardous Sites Branch  
Superfund Section



North Carolina Department of Environment and Natural Resources

Pat McCrory  
Governor

John E. Skvarla, III  
Secretary

July 10, 2014

James Sexton  
934 Taylor Road  
Stoneville, NC 27048

RE: Water Supply Well Sampling – Frances Gann Property site (NONCD0002879)

Dear Mr. Sexton:

My name is Vincent Antrilli and I work for the Division of Waste Management of the State of North Carolina's Department of Environment and Natural Resources. The purpose of this letter is to request your permission to sample the well(s) located at **934 Taylor Road in Stoneville, Rockingham County**, as part of an investigation of groundwater contamination detected in your area. You do not have to be present to have your well sampled and there is no cost to you. Samples will be collected from either a faucet at the well or on the exterior of your home. The laboratory results will be forwarded to you as soon as possible.

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North Carolina Department of Environment and Natural Resources

Pat McCrory  
Governor

John E. Skvarla, III  
Secretary

July 10, 2014

Lindy Hill  
880 Taylor Road  
Stoneville, NC 27048

RE: Water Supply Well Sampling – Frances Gann Property site (NONCD0002879)

Dear Ms. Hill:

My name is Vincent Antrilli and I work for the Division of Waste Management of the State of North Carolina's Department of Environment and Natural Resources. The purpose of this letter is to request your permission to sample the well(s) located at **880 Taylor Road in Stoneville, Rockingham County**, as part of an investigation of groundwater contamination detected in your area. You do not have to be present to have your well sampled and there is no cost to you. Samples will be collected from either a faucet at the well or on the exterior of your home. The laboratory results will be forwarded to you as soon as possible.

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North Carolina Department of Environment and Natural Resources

Pat McCrory  
Governor

John E. Skvarla, III  
Secretary

July 10, 2014

Morton and Patricia Solomon  
852 Taylor Road  
Stoneville, NC 27048

RE: Water Supply Well Sampling – Frances Gann Property site (NONCD0002879)

Dear Mr. and Mrs. Solomon:

My name is Vincent Antrilli and I work for the Division of Waste Management of the State of North Carolina's Department of Environment and Natural Resources. The purpose of this letter is to request your permission to sample the well(s) located at **852 and 862 Taylor Road in Stoneville, Rockingham County**, as part of an investigation of groundwater contamination detected in your area. You do not have to be present to have your well sampled and there is no cost to you. Samples will be collected from either a faucet at the well or on the exterior of your home. The laboratory results will be forwarded to you as soon as possible.

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Environmental Specialist  
Inactive Hazardous Sites Branch  
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North Carolina Department of Environment and Natural Resources

Pat McCrory  
Governor

John E. Skvarla, III  
Secretary

July 10, 2014

Carlos and Maria Reyes  
838 Taylor Road  
Stoneville, NC 27048

RE: Water Supply Well Sampling – Frances Gann Property site (NONCD0002879)

Dear Mr. and Mrs. Reyes:

My name is Vincent Antrilli and I work for the Division of Waste Management of the State of North Carolina's Department of Environment and Natural Resources. The purpose of this letter is to request your permission to sample the well(s) located at **838 Taylor Road in Stoneville, Rockingham County**, as part of an investigation of groundwater contamination detected in your area. You do not have to be present to have your well sampled and there is no cost to you. Samples will be collected from either a faucet at the well or on the exterior of your home. The laboratory results will be forwarded to you as soon as possible.

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Inactive Hazardous Sites Branch  
Superfund Section



North Carolina Department of Environment and Natural Resources

Pat McCrory  
Governor

John E. Skvarla, III  
Secretary

July 10, 2014

Melinda Ore  
826 Taylor Road  
Stoneville, NC 27048

RE: Water Supply Well Sampling – Frances Gann Property site (NONCD0002879)

Dear Ms. Ore:

My name is Vincent Antrilli and I work for the Division of Waste Management of the State of North Carolina's Department of Environment and Natural Resources. The purpose of this letter is to request your permission to sample the well(s) located at **826 Taylor Road in Stoneville, Rockingham County**, as part of an investigation of groundwater contamination detected in your area. You do not have to be present to have your well sampled and there is no cost to you. Samples will be collected from either a faucet at the well or on the exterior of your home. The laboratory results will be forwarded to you as soon as possible.

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Superfund Section



North Carolina Department of Environment and Natural Resources

Pat McCrory  
Governor

John E. Skvarla, III  
Secretary

July 10, 2014

Jill Bryant  
861 Taylor Road  
Stoneville, NC 27048

RE: Water Supply Well Sampling – Frances Gann Property site (NONCD0002879)

Dear Ms. Bryant:

My name is Vincent Antrilli and I work for the Division of Waste Management of the State of North Carolina's Department of Environment and Natural Resources. The purpose of this letter is to request your permission to sample the well(s) located at **861 Taylor Road in Stoneville, Rockingham County**, as part of an investigation of groundwater contamination detected in your area. You do not have to be present to have your well sampled and there is no cost to you. Samples will be collected from either a faucet at the well or on the exterior of your home. The laboratory results will be forwarded to you as soon as possible.

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Pat McCrory  
Governor

John E. Skvarla, III  
Secretary

July 10, 2014

Carl and Carol Blackard  
806 Taylor Road  
Stoneville, NC 27048

RE: Water Supply Well Sampling – Frances Gann Property site (NONCD0002879)

Dear Mr. and Mrs. Blackard:

My name is Vincent Antrilli and I work for the Division of Waste Management of the State of North Carolina's Department of Environment and Natural Resources. The purpose of this letter is to request your permission to sample the well(s) located at **806 Taylor Road in Stoneville, Rockingham County**, as part of an investigation of groundwater contamination detected in your area. You do not have to be present to have your well sampled and there is no cost to you. Samples will be collected from either a faucet at the well or on the exterior of your home. The laboratory results will be forwarded to you as soon as possible.

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Inactive Hazardous Sites Branch  
Superfund Section

Frances Gann Property, Rockingham County Addresses (NONCD0002879)

Well Address	Parcel ID#	Owner / Mailing Address	Phone # / email	Sampling Permission
801 Taylor Road	126631	William and Frances Gann 801 Taylor Road Stoneville, NC 27048		No! Ms. Gann's not pleased that the site has her name and requested that it be
806 Taylor Road	126632	Carl and Carol Blackard 806 Taylor Road Stoneville, NC 27048	336-573-9798 knocked on door	No Response
861 Taylor Road	126635	Jill Bryant 861 Taylor Road Stoneville, NC 27048	No Listing	No Response
826 Taylor Road	126640	Melinda Ore 826 Taylor Road Stoneville, NC 27048	336-573-4182	No Response
838 Taylor Road	126634	Carlos and Maria Reyes 838 Taylor Road Stoneville, NC 27048	No listing	No Response
852 Taylor Road	126637	Morton and Patricia Solomon 852 Taylor Road Stoneville, NC 27048	336-573-9186	No Response
862 Taylor Road	126636	Morton and Patricia Solomon 852 Taylor Road Stoneville, NC 27048		
880 Taylor Road	126667	Lindy Hill 880 Taylor Road Stoneville, NC 27048		No. from Debbie Heard 336-573-9563
934 Taylor Road	126670	James Sexton 934 Taylor Road Stoneville, NC 27048	No Listing	No Response
927 Taylor Road	126666	Norman Farmer PO Box 3145 Eden, NC 27289	No Listing	No Response
187 GSI Drive	175683	Roger and Julie White PO Box 270 Stoneville, NC 27048	No Listing	No Response

191 GSI Drive	175379	Larry and Judy White PO Box 385 Stoneville, NC 27048	336-613-5683	Yes, phone
190 GSI Drive	175381	Larry and Judy White PO Box 385 Stoneville, NC 27048		
760 Taylor Road	168916	Franklin and Cynthia Johnson 760 Taylor Road Stoneville, NC 27048	No Listing	No Response
656 Taylor Road	166500	Darrell Broadnax 656 Taylor Road Stoneville, NC 27048	No Listing	No Response
646 Taylor Road	166455	Franklin Moore 646 Taylor Road Stoneville, NC 27048	No Listing	No Response
684 and 694 Taylor Road	126592	Yomia Barham 684 Taylor Road Stoneville, NC 27048	336-573-9582	No Response
722 Taylor Road	126594	Ray Tuggle 722 Taylor Road Stoneville, NC 27048	336-496-6089	Yes, phone. Faucet @ well
184 Belthrop Road	126622	Jannie McCullough Estate c/o Claudine McCullough 241 Westmoreland Road Stoneville, NC 27048	336-623-8333	No Response
208 Belthrop Road	126621	Susan Scales 208 Belthrop Road Stoneville, NC 27048	336-573-9281	Yes, phone
197 Belthrop Road	126626	Lee Aiken 197 Belthrop Road Stoneville, NC 27048	336-573-3630	No, Phone
115 and 215 Belthrop Road	126624	Allen Scales Sr Heirs c/o Michael Scales 3925 Price Road Stoneville, NC 27048	No Listing	No Response
125 and 135 Elsie Lane	126630	Jeff Scales and Michael Scales II Anthony Cardwell and Others 124 Elsie Lane Stoneville, NC 27048	No Listing	No Response



**SITE HEALTH AND SAFETY PLAN**

**A. General Information**

Site Name Frances Gann Residence ID # NONCD 000 2879  
Location 801 Taylor Road, Stoneville, Rockingham County, NC

Proposed Date of Investigation 7/21/14 to 8/21/14  
Date of Briefing 7/14/14  
Date of Debriefing 8/21/14

Nature of Visit (check one): On-Site Reconnaissance  
Off-Site Reconnaissance  
Sampling X  
Sampling Overview  
Remediation Overview

Health Department Official Contacted Edwin Stott's voice mail  
Date of Contact 7/14/14

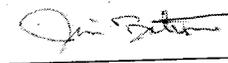
Site Investigation Team: All site personnel have read the Site Health and Safety Plan and are familiar with its provisions.

<u>Personnel</u>	<u>Responsibilities</u>	<u>Signature</u>
Team 1 <u>Vince Antrilli</u>	<u>team leader, sampling</u>	
Team 1 <u>Bobby Lutfy</u>	<u>sampling</u>	
Team 1 <u>Wade Kirby</u>	<u>sampling</u>	

Plan Preparation:

Prepared By: David Lilley, Industrial Hygiene Consultant

Reviewed By: Jim Bateson, Superfund Section Chief



**B. SITE/WASTE CHARACTERISTICS**

Waste Type(s)  Liquid  Solid  Sludge  Gas  Vapor  
 Characteristics  Corrosive  Ignitable  Radioactive  
 Volatile  Toxic  Reactive  Other

List Known or Suspected Hazards (physical, chemical biological or radioactive) on Site and their toxicological effects. Also, if known, list chemical amounts

HAZARD	WARNING PROPERTIES	EXPOSURE LIMIT
<u>Carbon Tetrachloride</u>	<u>Odor Threshold = 10 ppm</u>	<u>5 ppm</u>
<u>Chloromethane</u>	<u>OT = 50 ppm</u>	<u>10 ppm</u>
<u>cis-1,2-Dichloroethene</u>	<u>OT = 17 ppm</u>	<u>200 ppm</u>
<u>Methyl tert-butyl ether</u>	<u>OT = 0.02 ppm</u>	<u>50 ppm</u>

**UNDERGROUND UTILITIES CHECKLIST**

<u>Utility</u>	<u>Locator/Contact Person</u>	<u>Phone #</u>	<u>Date of Location</u>
Power			
Telephone			
Gas			
Water			
Sewer			

Call made by:

Facility Description: Size unknown Buildings unknown

Disposal Methods Being Investigated No disposal of material or methods of disposal have been reported.

Unusual Features on Site (dike integrity, power lines, terrain, etc.):  
None known

History of the Site: Unknown

C. HAZARD EVALUATION

The site can be toured and sampled in level D protection. PVC gloves will be worn while collecting water samples. Chemically resistant knee length boots will be worn on site if the potential for surface soil contamination exists.

D. WORK PLAN INSTRUCTION

Map or Sketch Attached? yes

Perimeter Identified? no

Command Post Identified? no

Zones of Contamination Identified? no

Personal Protective Equipment/Level of Protection:     C   X  D

Modifications Wear goggles, face shield, and PVC gloves while preparing acid preserved samples, goggles and PVC gloves while collecting acid preserved samples. Avoid breathing acid vapors.

Surveillance Equipment:

_____ HNU	_____ Detector Tubes and Pumps
_____ OVA	_____ O2 Meter
_____ Explosimeter	_____ Radiation Monitor

Decontamination Procedures

\_\_\_\_\_ Level C Respirator wash, respirator removal, suit wash (if needed), suit removal, boot wash, boot removal and glove removal.

X Level D Boot wash and rinse and boot removal, suit removal, glove and goggle removal.

Modifications Dispose of trash properly, on-site if possible.

Work Schedule/Visit Objectives The purpose of this visit is to determine if the site poses a threat to the public health or environment because of releases of contaminants to soil, surface water, groundwater, or air.  
Sampling may consist of groundwater sampling.

EMERGENCY PRECAUTIONS

<u>Route of Exposure</u>	<u>First Aid</u>
<u>Eyes</u>	<u>irrigate immediately</u>
<u>Skin</u>	<u>soap and water wash</u>
<u>Inhalation</u>	<u>fresh air and artificial respiration</u>
<u>Ingestion</u>	<u>get medical attention immediately</u>

Location of Nearest Phone: nearby residences

Hospital (Address and Phone Number)

Morehead Memorial Hospital, 117 East Kings Hwy, Eden, NC (336) 623-9711

Emergency Transportation Systems (Phone Numbers)

Fire 911

Ambulance 911

Rescue Squad 911

Emergency Route to Hospital see next page

PREVAILING WEATHER CONDITIONS AND FORECAST

**EQUIPMENT CHECKLIST**

- |                                     |                           |                                     |  |
|-------------------------------------|---------------------------|-------------------------------------|--|
| <input type="checkbox"/>            | Air purifying respirator  | <input checked="" type="checkbox"/> | First Aid Kit                            |
| <input type="checkbox"/>            | Cartridges for respirator | <input checked="" type="checkbox"/> | 3 gal. Deionized H2O                     |
| <input checked="" type="checkbox"/> | Eye Wash Unit             | <input checked="" type="checkbox"/> | Rain suit                                |
| <input type="checkbox"/>            | HNU                       | <input checked="" type="checkbox"/> | Gloves ( <u>PE/PVC/nitrile/cloth</u> )   |
| <input type="checkbox"/>            | OVA                       | <input checked="" type="checkbox"/> | <u>Boots/Boot Covers</u>                 |
| <input type="checkbox"/>            | Explosimeter              | <input checked="" type="checkbox"/> | Coveralls ( <u>tyvek/saranex</u> )       |
| <input type="checkbox"/>            | Radiation Monitor         | <input checked="" type="checkbox"/> | Eye Protection ( <u>goggles/shield</u> ) |
| <input checked="" type="checkbox"/> | Decontamination Materials | <input checked="" type="checkbox"/> | Hard Hat                                 |

**STATE POISON CONTROL CENTER**

1-800-848-6946

**North Carolina OSHA**

1-800-LABOR-NC

Please submit the Air Monitoring and Injury Report Form.



Trip to:  
**117 E Kings Hwy**  
Eden, NC 27288-5201  
11.06 miles / 17 minutes

Notes

advertisement

## Do You Think the Market Is Headed for a Fall?

If you have a \$1,000,000 portfolio, you should download the latest report by *Forbes* columnist Ken Fisher. In it he tells you where he thinks the stock market is headed, and why. This must-read report includes his latest stock market prediction, plus research and analysis you can use in your portfolio right now. Don't miss it!

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FISHER INVESTMENTS™



**801 Taylor Rd, Stoneville, NC 27048-8312**

Download  
Free App



1. Start out going **southwest** on **Taylor Rd** toward **Belthrop Rd.** [Map](#)

**1.0 Mi**

*1.0 Mi Total*



2. **Taylor Rd** becomes **Simpson St.** [Map](#)

**0.5 Mi**

*1.5 Mi Total*



3. Turn **left** onto **E Main St / NC-770**. Continue to follow **NC-770**. [Map](#)

**6.1 Mi**

*7.6 Mi Total*



4. Stay **straight** to go onto **NC Highway 770**. [Map](#)

**0.7 Mi**

*8.2 Mi Total*



5. **NC Highway 770** becomes **Washington St.** [Map](#)

**1.5 Mi**

*9.7 Mi Total*



6. Turn **right** onto **N Bridge St.** [Map](#)

**0.1 Mi**

*N Bridge St is just past Monroe St*

*Creative Expressions Florist Inc is on the corner*

*If you are on Boone Rd and reach Reeves St you've gone about 0.1 miles too far*

*9.9 Mi Total*



7. Stay **straight** to go onto **W Kings Hwy.** [Map](#)

**1.2 Mi**

*11.1 Mi Total*



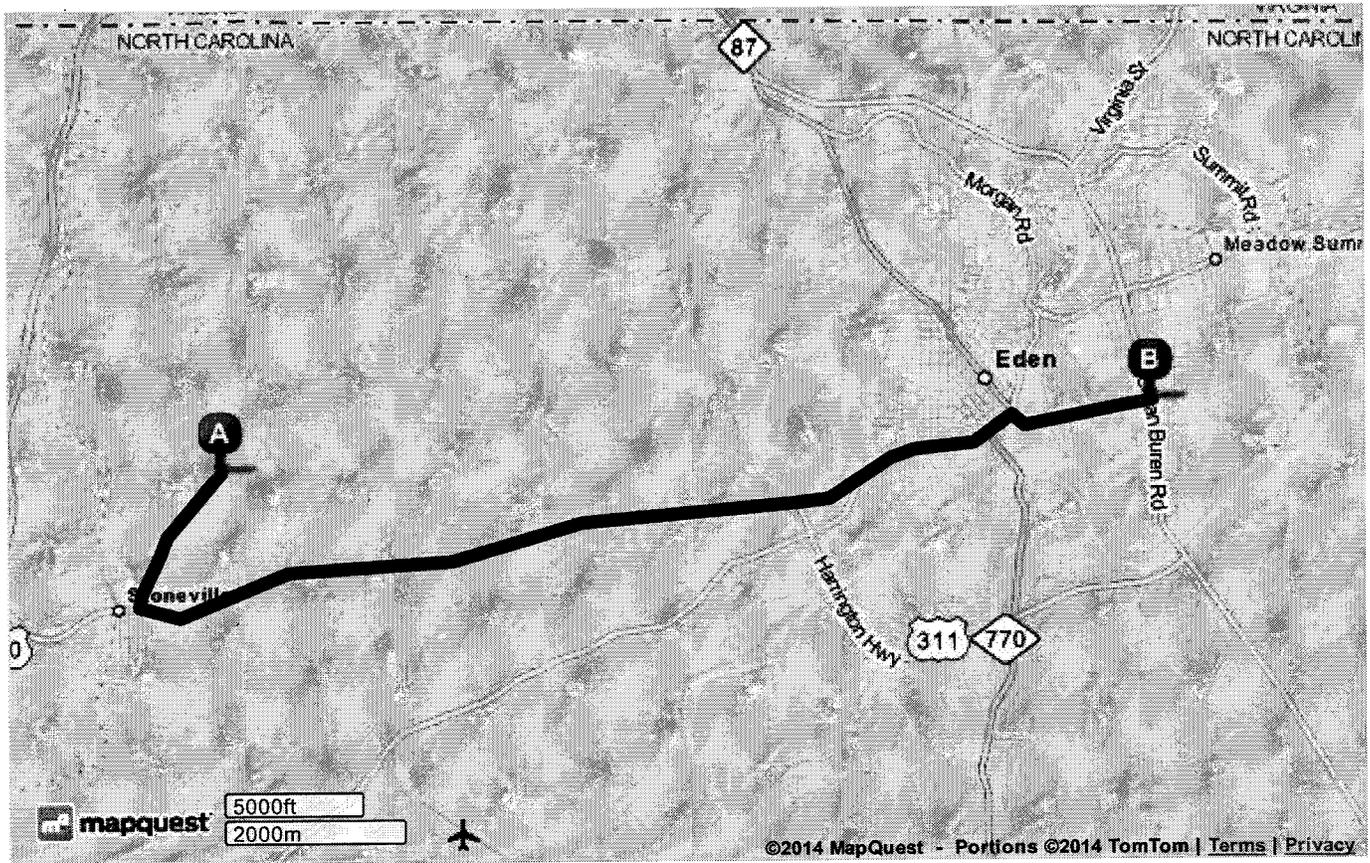
**117 E KINGS HWY** is on the **left**. [Map](#)

*Your destination is just past S Van Buren Rd*



**117 E Kings Hwy, Eden, NC 27288-5201**

Total Travel Estimate: **11.06 miles - about 17 minutes**



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HAZARDOUS SUBSTANCE INFORMATION FORM

Chemical Name: Carbon Tetrachloride

I. PHYSICAL/CHEMICAL PROPERTIES

Reference

Chemical Formula	<u>CCl4</u>	<u>1</u>
Natural Physical State at 25°C	<u>liquid</u>	<u>2</u>
Vapor Pressure	<u>91.3</u> mm Hg at 20°C	<u>2</u>
Melting Point	<u>-9</u> °F/°C Boiling Point <u>170</u> °F/°C	<u>3</u>
Flash Point (open or closed cup)	<u>none</u> °C/°F	<u>3</u>
Solubility - H <sub>2</sub> O	<u>1 ml dissolves in 2000 ml water</u>	<u>1</u>
Other miscible with alcohol, benzene,	<u>chloroform, ether, carbon disulfide, petroleum ether, oils</u>	<u>1</u>

Physical Features: (odor, color, etc.) Colorless, clear heavy liquid with an ether-like odor (1,3) IP = 11.47 eV, HNU sensitivity with 11.7 eV probe = 9.0.

II. TOXICOLOGICAL DATA

potential human

Standards: 5 ppm-skin (4) TLV 10 ppm (5) PELcarcinogen (3) IDLH

Routes of Exposure: Inhalation, skin absorption, ingestion, eye contact

Acute/Chronic Symptoms: Central nervous system depression, nausea, vomiting, liver and kidney damage, skin irritation, potential human carcinogen (3)

First Aid: Inhalation: artificial respiration; Skin contact: soap and water wash immediately; Eye contact: water flush immediately and get medical attention.

Chemical Name: Carbon Tetrachloride

III. HAZARDOUS CHARACTERISTICS

Reference

A. Combustibility Yes  No  3  
Toxic by-products \_\_\_\_\_

B. Flammability LEL \_\_\_\_\_ UEL \_\_\_\_\_

C. Reactivity Hazard Incompatible with chemically active .3  
metals, such as sodium, potassium, and magnesium; fluorine; aluminum  
Note: forms highly toxic phosgene gas when exposed to flames or  
welding arcs.

D. Corrosivity Hazard yes/no pH: \_\_\_\_\_  
Neutralizing agent: \_\_\_\_\_

E. Radioactive Hazard Exposure Rate

Background	yes/no	_____	_____
Alpha particles	yes/no	_____	_____
Beta particles	yes/no	_____	_____
Gamma radiation	yes/no	_____	_____

IV. REFERENCES

- (1) The Merck Index, 11<sup>th</sup> Edition.
- (2) The Condensed Chemical Dictionary, Hawley, 11<sup>th</sup> Edition.
- (3) NIOSH Pocket Guide to Chemical Hazards, 1990.
- (4) Threshold Limit Values and Biological Exposure Indices for 2007  
ACGIH.
- (5) 29 CFR 1910.1000

HAZARDOUS SUBSTANCE INFORMATION FORM

Chemical Name: Chloromethane

I. PHYSICAL/CHEMICAL PROPERTIES

	Reference
Chemical Formula <u>CH<sub>3</sub> Cl</u>	<u>1</u>
Natural Physical State at 25°C <u>gas</u>	<u>1</u>
Vapor Pressure <u>&gt; 1 atm</u> mm Hg at 20°C	<u>1</u>
Melting Point <u>-144</u> °F/°C Boiling Point <u>-12</u> °F/°C	<u>1</u>
Flash Point (open or closed cup) <u>NA (gas)</u> °C/°F	<u>1</u>
Solubility - H <sub>2</sub> O <u>0.5%</u>	
Other _____	

Physical Features: (odor, color, etc.) Colorless gas with a faint, sweet odor which is not noticeable at dangerous concentrations. (1)

II. TOXICOLOGICAL DATA

Standards: 50 ppm (2) TLV 100 ppm (3) PEL 10,000 ppm (1) IDLH

Routes of Exposure: Inhalation

Acute/Chronic Symptoms: Dizziness, nausea, vomiting, visual disturbances, staggering, slurred speech, convulsions, coma, liver and kidney damage, frostbite, carcinogenic

First Aid: Inhalation: artificial respiration; Ingestion: get medical attention immediately; Eye contact: irrigate immediately; Skin contact: soap and water wash immediately

Chemical Name: Chloromethane

III. HAZARDOUS CHARACTERISTICS

		Reference
A.	Combustibility Yes <u>X</u> No _____	
	Toxic by-products _____	_____
B.	Flammability LEL <u>8.1%</u> UEL <u>17.4%</u>	<u>1</u>
C.	Reactivity Hazard <u>Chemically-active metals such as potassium, powdered aluminum, zinc &amp; magnesium; water</u>	<u>1</u>
D.	Corrosivity Hazard yes/no pH: _____	
	Neutralizing agent: _____	
E.	Radioactive Hazard	Exposure Rate
	Background yes/no	_____
	Alpha particles yes/no	_____
	Beta particles yes/no	_____
	Gamma radiation yes/no	_____

IV. REFERENCES

1. Pocket Guide to Chemical Hazards, NIOSH, 1990
2. Threshold Limit Values and Biological Exposure Indices, ACGIH, 2007
3. 29 CFR 1910.1000

HAZARDOUS SUBSTANCE INFORMATION FORM

Chemical Name: 1,2-Dichloroethylene

I. PHYSICAL/CHEMICAL PROPERTIES

	Reference
Chemical Formula <u>C<sub>2</sub>H<sub>2</sub>Cl<sub>2</sub></u>	<u>1</u>
Natural Physical State at 25°C <u>liquid</u>	<u>2</u>
Vapor Pressure <u>180-265</u> mm Hg at 20°C	<u>3</u>
Melting Point <u>-56 to -115</u> /°C Boiling Point <u>113 to 140</u> °F/°C	<u>3</u>
Flash Point (open or closed cup) <u>36 - 39</u> °C/°F	<u>3</u>
Solubility - H <sub>2</sub> O <u>0.35 to 0.63%</u>	<u>3</u>
Other <u>alcohol, ether, most organic solvents</u>	<u>2</u>

Physical Features: (odor, color, etc.) Colorless liquid with an ether-like slightly acrid odor, like chloroform (3) IP = 9.65 eV  
OVA Relative Response = 50%

II. TOXICOLOGICAL DATA

Standards: 200 ppm (4) TLV      200 ppm (5) PEL      4,000ppm (3) IDLH

Routes of Exposure: Ingestion, Inhalation, Eye and/or skin contact

Acute/Chronic Symptoms: Irritation of the eyes and respiratory system, central nervous system depression (3)

First Aid: Inhalation: artificial respiration; Ingestion: get medical attention immediately; Eye contact: irrigate immediately; Skin contact: soap and water wash immediately.

Chemical Name: 1,2-Dichloroethylene

III. HAZARDOUS CHARACTERISTICS

Reference

A. Combustibility	Yes <u>X</u>	No _____	<u>6</u>
Toxic by-products	<u>phosgene and HCl formation</u>		<u>6</u>
B. Flammability	LEL <u>9.7%</u>	UEL <u>12.8%</u>	<u>6</u>
C. Reactivity Hazard	<u>Not reactive with common materials</u>		<u>6</u>
D. Corrosivity Hazard	yes/no _____	pH: _____	_____

Neutralizing agent: \_\_\_\_\_

E. Radioactive Hazard		Exposure Rate	
Background	yes/no _____	_____	_____
Alpha particles	yes/no _____	_____	_____
Beta particles	yes/no _____	_____	_____
Gamma radiation	yes/no _____	_____	_____

IV. REFERENCES

1. The Condensed Chemical Dictionary, Sax, 11th Edition, 1987.
2. The Merck Index, 11th Edition, Sax, 1989.
3. Pocket Guide to Chemical Hazards, NIOSH, 1990.
4. Threshold Limit Values and Biological Exposure Indices for 2007 ACGIH.
5. 29 CFR 1910.1000.
6. Chemical Hazard Response Information System, US Department of Transportation, 1987.

## HAZARDOUS SUBSTANCE INFORMATION FORM

Chemical Name: Methyl-tert-butyl ether

## I. PHYSICAL/CHEMICAL PROPERTIES

	Reference
Chemical Formula <u>C<sub>5</sub>H<sub>12</sub>O</u>	<u>1</u>
Natural Physical State at 25°C <u>liquid</u>	<u>2</u>
Vapor Pressure <u>245</u> mm Hg at 20°C	<u>1</u>
Melting Point _____ °F/°C Boiling Point <u>55.2</u> °F/°C	<u>1</u>
Flash Point (open or closed cup) <u>-109</u> °C/°F	<u>1</u>
Solubility - H <sub>2</sub> O <u>4.8g/100g</u>	<u>1</u>
Other _____	_____

Physical Features: (odor, color, etc.) Colorless liquid, used as an octane booster in gasoline (1,2)

## II. TOXICOLOGICAL DATA

Standards: 50 ppm (4) TLV \_\_\_\_\_ PEL \_\_\_\_\_ IDLH \_\_\_\_\_Routes of Exposure: Inhalation, Ingestion, Skin and/or Eye contactAcute/Chronic Symptoms: Skin and eye irritation, sleepiness, loss of appetite, dizziness, excitation (inhalation). Skin contact can cause dryness and cracking. (3)First Aid: Inhalation: artificial respiration; Ingestion: get medical attention immediately; Skin contact: irrigate immediately; Skin contact: soap and water wash immediately.

Chemical Name: Methyl-tert-butyl ether

III. HAZARDOUS CHARACTERISTICS

Reference

A. Combustibility	Yes <u>X</u> No _____	_____	<u>2</u>
Toxic by-products	<u>When heated to decomposition, emits acrid smoke and irritating fumes</u>	_____	<u>3</u>
B. Flammability	LEL _____ UEL _____	_____	_____
C. Reactivity Hazard	<u>Unstable in acid solution, exposure of ethers to sunlight causes formation of explosive peroxides</u>	_____	<u>2,3</u>
D. Corrosivity Hazard	yes/no _____ pH: _____	_____	_____
Neutralizing agent:	_____	_____	_____
E. Radioactive Hazard		Exposure Rate	
Background	yes/no _____	_____	_____
Alpha particles	yes/no _____	_____	_____
Beta particles	yes/no _____	_____	_____
Gamma radiation	yes/no _____	_____	_____

IV. REFERENCES

1. The Merck Index, 10th Edition.
2. The Condensed Chemical Dictionary, Hawley, 11<sup>th</sup> Edition, 1987.
3. Encyclopaedia of Occupational Health and Safety, International Labor Office, 3rd Edition, 1983.
4. Threshold limit Values, ACGIH, 2007

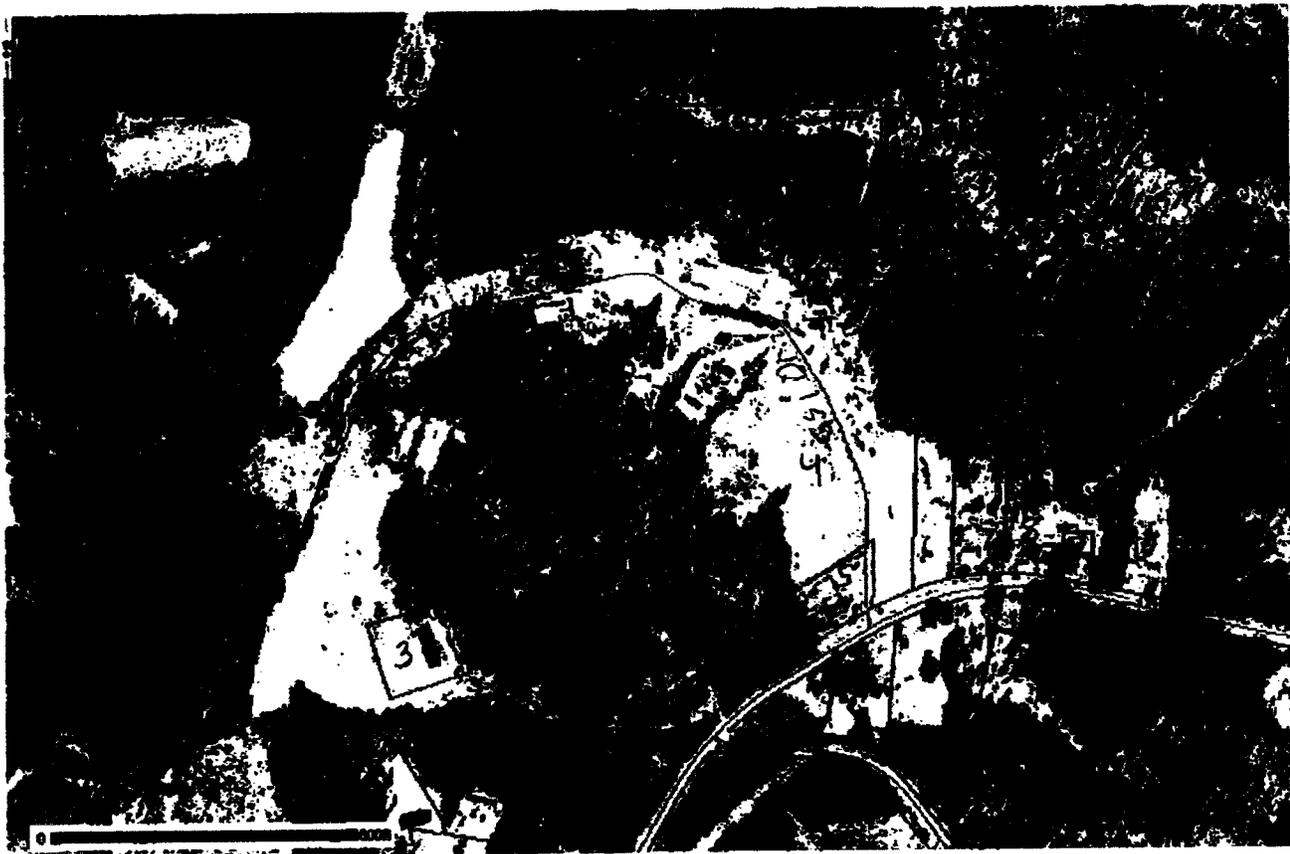


Francis Gann Residence – NONCD0002879

Last sampling event was in November 2009. Sampled for VOCs and metals. Carbon tetrachloride below MCLs. No 2L established (?). Metal detections include barium, copper, magnesium, and zinc.

Address is 801 Taylor Rd, Stoneville, NC. Apparent contact mailing address is 307 Bryan Street, Stoneville, NC 27048.

Looks like PCE may have been previously detected in the Gann well.





## North Carolina Department of Environment and Natural Resources

Dexter R. Matthews, Director

Division of Waste Management

Beverly Eaves Purdue, Governor

Dee Freeman, Secretary

### MEMORANDUM

**Date:** 11/10/2009

**To:** File

**From:** Dwayne Peterson  
Raleigh Regional Office  
Inactive Hazardous Sites Branch

**Re:** Frances Gann Residence – Sampling Trip Summary  
NONCD0002879

- 
- Larry Rose and I arrived at Mrs. Gann property at 11:30 am. We had prior permission to sample from her son Perry Gann. After sampling Mrs. Gann's well we went to Guaranteed System, Inc (GSI).
  - GSI had two wells on the property serving three buildings. We spoke with Mrs. White, the owner of the property and grabbed a sample from the office bathroom sink. This water is from the well that also serves the older house with siding. We then sampled the well that serves the newer brick house on the property which is the residence of Mr. & Mrs. White.
  - These were the only people to respond to our request to sample the area.

November 30, 2009

**MEMORANDUM**

**TO:** Dwayne Peterson, Environmental Specialist  
Superfund Section, IHSB

**FROM:** Hanna Assefa, Industrial Hygienist   
Superfund Section, Inactive Hazardous Sites Branch (IHSB)

**RE:** Health Risk Evaluation Request  
Frances Gann Residence  
801 Taylor Rd (G-01)  
Rockingham County  
NONCD0002879

A water sample was collected from the water supply well at the subject address on November 10, 2009. None of the contaminants detected exceeded applicable standard. The standards used to determine if the water is suitable for drinking and cooking are the federal drinking water standards (USEPA MCL), or where there is no MCL, the North Carolina Groundwater Quality Standard (NC 2L). There is no toxicological data available for magnesium.

If contaminant concentrations exceed the applicable standards for using the water for drinking and cooking, the contaminant concentrations are further analyzed to determine if the water is suitable for other household uses, such as showering, bathing, washing dishes, flushing toilets, and hand washing. Therefore, based on this evaluation the water from this well can be used for drinking, cooking and all other residential purposes listed above. The table below compares the detected contaminant concentrations with the applicable standards:

Sample #	Chemical	11/10/2009 Concentrations Ug/l	USEPA MCL Ug/l	NC 2L Ug/l
KK13011-012	Chloromethane	0.80		2.6
	Chloroform	5.6	80	
	Carbon tetrachloride	3.4	5	
	Barium	89	2,000	
	Copper	120	1,300	
	Magnesium	8,600	NA	NA
	Zinc	30		1,050

VOC's  
metals

Frances Gann Residence, Rockingham County Addresses (NONCD0002879)

Well Address	Parcel ID#	Owner / Mailing Address	Phone Number	Sampling permission
801 Taylor Road FG-01	793912862396	Frances Gann 801 Taylor Road Stoneville, NC 27048  C/O Perry Gann 307 Bryan Street Stoneville, NC 27048	<del>XXXXXXXXXX</del> (336) 573-6037	Y, Phone
861 Taylor Road FG-02	793912868242	Daniel Worrell & Vicky Balkey 861 Taylor Road Stoneville, NC 27048	(336) 573-3635	
780 Taylor Road FG-03	793911761489	Franklin & Cynthia Johnson 760 Taylor Road Stoneville, NC 27048	(336) 573-2434	
GSI Drive Guaranteed System, Inc. FG-04	793911764916	Larry & Judy White P.O. Box 385 Stoneville, NC 27048	(336) 573-3994 GSI (336) 573-3448	Y, Phone
806 Taylor Road FG-05	793912862692	Carl & Carol Blackard 806 Taylor Road Stoneville, NC 27048	(336) 573-9798	
826 Taylor Road FG-08	793912875140	Melinda Ore 826 Taylor Road Stoneville, NC 27048	(336) 573-4182	
838 Taylor Road FG-07	793912866966	Carlos & Maria Reyes 838 Taylor Road Stoneville, NC 27048		
852 Taylor Road FG-08	793912878080	Morton & Patricia Solomon 852 Taylor Road Stoneville, NC 27048	(336) 573-9188	
862 Taylor Road FG-09	793912869721	Morton & Patricia Solomon 852 Taylor Road Stoneville, NC 27048	(336) 573-9188	
880 Taylor Road FG-10	793912961902	Mr. Lindy Hill 880 Taylor Road Stoneville, NC 27048	(336) 573-9563	N, Phone