Waste Management
ENVIRONMENTAL QUALITY

PAT MCCRORY
Governor

DONALD R. VAN DER VAART
Secretary

MICHAEL SCOTT
Director

May 19, 2016

Larry Upole
804 NC Highway 73
West End, NC 27376

RE: Water Supply Well Sampling Results – Stanley Case Goods Site (NCD049845266)
4049 Highway 73 – Well ID 4049 Hwy 73
West End, NC 27376

Dear Mr. Upole:

Please find attached the Sample Analytical Results for a water sample collected from your well located at the address referenced above, on April 12, 2016. The sample was submitted for laboratory analyses for Volatile Organic Compounds (VOCs). VOCs 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.
Environmental Specialist
Inactive Hazardous Sites Branch
Superfund Section

Cc: Moore County Health Dept
Current Resident, 4049 Hwy 73, West End, NC 27376

Waste Management
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Director

May 18, 2016

TO: Vince Antrilli
Inactive Hazardous Sites Branch
NC Superfund

RE: Health Risk Evaluation
NCD049845266
Stanly Case Goods
4049 Hwy 73
West End, NC

During this sampling event, one contaminant was detected in the well water. The standards used to determine if the water is suitable for drinking and cooking are the United States Environmental Protection Agency's Maximum Contaminant Levels (MCLs) or, if no MCLs exist, North Carolina Groundwater Standards (2L).

If the contaminant concentration exceeds the applicable standard for using the water for drinking and cooking, the contaminant concentration is further analyzed to determine if the water is suitable for other household uses, such as showering, bathing, washing dishes, flushing toilets, and hand washing. The chart below compares the detected contaminant concentration with the applicable standard:

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
RD13017-001	Dichlorodifluoromethane	0.62		1,000

* The abbreviation µg/l stands for micrograms of contaminant per liter of water and is roughly equivalent to parts per billion.

RECOMMENDATION: The detected contaminant did not exceed the applicable water standard. Therefore, no restrictions on the use of this water are recommended at this time.

David Lilley, Environmental Toxicologist
Division of Waste Management, NCDEQ

Client: **DEQ DWM**
Description: **4049**
Date Sampled: **04/12/2016 1102**
Date Received: **04/13/2016**

Laboratory ID: **RD13017-002**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	04/14/2016 1126	RAG		10894

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
1,3-Dichlorobenzene	541-73-1	8260B	ND		0.50	ug/L	1
1,2-Dichlorobenzene	95-50-1	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**	**1.4**		**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
trans-1,2-Dichloroethene	156-60-5	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
1,2-Dichloropropane	78-87-5	8260B	ND		0.50	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		0.50	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	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
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
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: **DEQ DWM**
Description: **4049**
Date Sampled: **04/12/2016 1102**
Date Received: **04/13/2016**

Laboratory ID: **RD13017-002**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	04/14/2016 1126	RAG		10894

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		100	70-130
Toluene-d8		100	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
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Waste Management
ENVIRONMENTAL QUALITY

PAT MCCRORY
Governor

DONALD R. VAN DER VAART
Secretary

MICHAEL SCOTT
Director

May 19, 2016

Frank McNeill, Jr.
McNeill Oil Co.
PO Box 396
Aberdeen, NC 28315-0295

RE: Water Supply Well Sampling Results – Stanley Case Goods Site (NCD049845266)
5349 Highway 73 – Well ID 5349 Hwy 73
West End, NC 27376

Dear Mr. McNeill:

Please find attached the Sample Analytical Results for a water sample collected from your well located at the address referenced above, on April 12, 2016. The sample was submitted for laboratory analyses for Volatile Organic Compounds (VOCs). VOCs 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.
Environmental Specialist
Inactive Hazardous Sites Branch
Superfund Section

Cc: Moore County Health Dept.
Current Resident, 5349 Hwy 73, West End, NC 27376

Waste Management
ENVIRONMENTAL QUALITY

PAT MCCRORY
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DONALD R. VAN DER VAART
Secretary

MICHAEL SCOTT
Director

May 18, 2016

TO: Vince Antrilli
Inactive Hazardous Sites Branch
NC Superfund

RE: Health Risk Evaluation
NCD049845266
Stanly Case Goods
5349 Hwy 73
West End, NC

During this sampling event, one contaminant was detected in the well water. The standards used to determine if the water is suitable for drinking and cooking are the United States Environmental Protection Agency's Maximum Contaminant Levels (MCLs) or, if no MCLs exist, North Carolina Groundwater Standards (2L).

If the contaminant concentration exceeds the applicable standard for using the water for drinking and cooking, the contaminant concentration is further analyzed to determine if the water is suitable for other household uses, such as showering, bathing, washing dishes, flushing toilets, and hand washing. The chart below compares the detected contaminant concentration with the applicable standard:

RD13017-002	Dichlorodifluoromethane	1.4		1,000

* The abbreviation µg/l stands for micrograms of contaminant per liter of water and is roughly equivalent to parts per billion.

RECOMMENDATION: The detected contaminant did not exceed the applicable water standard. Therefore, no restrictions on the use of this water are recommended at this time.

David Lilley, Environmental Toxicologist
Division of Waste Management, NCDEQ

Volatile Organic Compounds by GC/MS

Client: **DEQ DWM**
Description: **5349**
Date Sampled: **04/12/2016 1031**
Date Received: **04/13/2016**

Laboratory ID: **RD13017-001**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	04/14/2016 1103	RAG		10894

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
1,3-Dichlorobenzene	541-73-1	8260B	ND		0.50	ug/L	1
1,2-Dichlorobenzene	95-50-1	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**	**0.62**		**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
trans-1,2-Dichloroethene	156-60-5	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
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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
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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
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Toluene	108-88-3	8260B	ND		0.50	ug/L	1
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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: **DEQ DWM**
Description: **5349**
Date Sampled: **04/12/2016 1031**
Date Received: **04/13/2016**

Laboratory ID: **RD13017-001**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	04/14/2016 1103	RAG		10894

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		101	70-130
Toluene-d8		100	70-130

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Director

May 18, 2016

TO: Vince Antrilli
Inactive Hazardous Sites Branch
NC Superfund

RE: Health Risk Evaluation
NCD049845266
Stanly Case Goods
5349 Hwy 73
West End, NC

During this sampling event, one contaminant was detected in the well water. The standards used to determine if the water is suitable for drinking and cooking are the United States Environmental Protection Agency's Maximum Contaminant Levels (MCLs) or, if no MCLs exist, North Carolina Groundwater Standards (2L).

If the contaminant concentration exceeds the applicable standard for using the water for drinking and cooking, the contaminant concentration is further analyzed to determine if the water is suitable for other household uses, such as showering, bathing, washing dishes, flushing toilets, and hand washing. The chart below compares the detected contaminant concentration with the applicable standard:

Sample ID	Contaminant	Concentration (µg/l)*	MCL (µg/l)	2L (µg/l)
RD13017-002	Dichlorodifluoromethane	1.4		1,000

* The abbreviation µg/l stands for micrograms of contaminant per liter of water and is roughly equivalent to parts per billion.

RECOMMENDATION: The detected contaminant did not exceed the applicable water standard. Therefore, no restrictions on the use of this water are recommended at this time.

David Lilley, Environmental Toxicologist
Division of Waste Management, NCDEQ

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May 18, 2016

TO: Vince Antrilli
Inactive Hazardous Sites Branch
NC Superfund

RE: Health Risk Evaluation
NCD049845266
Stanly Case Goods
4049 Hwy 73
West End, NC

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[illegible]	Contaminant	Concentration* (µg/l)	[illegible]	[illegible] (µg/l)
RD13017-001	Dichlorodifluoromethane	0.62		1,000

* The abbreviation µg/l stands for micrograms of contaminant per liter of water and is roughly equivalent to parts per billion.

RECOMMENDATION: The detected contaminant did not exceed the applicable water standard. Therefore, no restrictions on the use of this water are recommended at this time.

David Lilley, Environmental Toxicologist
Division of Waste Management, NCDEQ

May 18, 2016

MEMORANDUM

TO: Dave Lilley, Industrial Hygienist
Department of Waste Management, NC DEQ

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

RE: Health Risk Evaluation Request
Stanly Case Goods
4049 Hqy 73, West End, Moore County
NCD049845266

Please find attached a copy of the laboratory analytical results for one water supply well sample. This sample was collected on April 12, 2016. 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.

Sample ID	Compound	Concentration (µg/L)
RD13017-001	Dichlorodifluoromethane	0.62

If you have any questions or would like additional information, please contact me at 707-8353.

Attachment

May 18, 2016

MEMORANDUM

TO: Dave Lilley, Industrial Hygienist
Department of Waste Management, NC DEQ

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

RE: Health Risk Evaluation Request
Stanly Case Goods
5349 Hqy 73, West End, Moore County
NCD049845266

Please find attached a copy of the laboratory analytical results for one water supply well sample. This sample was collected on April 12, 2016. 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.

Sample ID	Compound	Concentration (µg/L)
RD13017-002	Dichlorodifluoromethane	1.4

If you have any questions or would like additional information, please contact me at 707-8353.

Attachment

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

DEQ DWM
217 West Jones St.
Raleigh, NC 27603
Attention: Vincent Antrilli

Project Name: **Stanley Case Goods**

Project Number: **NCD049885266**

Lot Number: **RD13017**

Date Completed: **04/18/2016**

Nisreen Saikaly
Project Manager

LABORATORY ACCREDITATION BUREAU ACCREDITED

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.

Case Narrative
DEQ DWM
Lot Number: RD13017

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
DEQ DWM
Lot Number: RD13017

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	5349	Aqueous	04/12/2016 1031	04/13/2016
002	4049	Aqueous	04/12/2016 1102	04/13/2016

(2 samples)

Executive Summary
DEQ DWM
Lot Number: RD13017

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	5349	Aqueous	Dichlorodifluoromethane	8260B	0.62		ug/L	5
002	4049	Aqueous	Dichlorodifluoromethane	8260B	1.4		ug/L	7

(2 detections)

Volatile Organic Compounds by GC/MS

Client: **DEQ DWM**
Description: **5349**
Date Sampled: **04/12/2016 1031**
Date Received: **04/13/2016**
Laboratory ID: **RD13017-001**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	04/14/2016 1103	RAG		10894

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
1,3-Dichlorobenzene	541-73-1	8260B	ND		0.50	ug/L	1
1,2-Dichlorobenzene	95-50-1	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**	**0.62**		**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
trans-1,2-Dichloroethene	156-60-5	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
1,2-Dichloropropane	78-87-5	8260B	ND		0.50	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		0.50	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	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: **DEQ DWM**
Description: **5349**
Date Sampled: **04/12/2016 1031**
Date Received: **04/13/2016**

Laboratory ID: **RD13017-001**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	04/14/2016 1103	RAG		10894

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		101	70-130
Toluene-d8		100	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
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: **DEQ DWM**
Laboratory ID: **RD13017-002**
Description: **4049**
Matrix: **Aqueous**
Date Sampled: **04/12/2016 1102**
Date Received: **04/13/2016**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	04/14/2016 1126	RAG		10894

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
1,3-Dichlorobenzene	541-73-1	8260B	ND		0.50	ug/L	1
1,2-Dichlorobenzene	95-50-1	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**	**1.4**		**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
trans-1,2-Dichloroethene	156-60-5	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
1,2-Dichloropropane	78-87-5	8260B	ND		0.50	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		0.50	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	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: **DEQ DWM**
Description: **4049**
Date Sampled: **04/12/2016 1102**
Date Received: **04/13/2016**

Laboratory ID: **RD13017-002**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	04/14/2016 1126	RAG		10894

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		100	70-130
Toluene-d8		100	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
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: RQ10894-001
Batch: 10894
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Acetone	ND		1	10	ug/L	04/14/2016 0942
Benzene	ND		1	0.50	ug/L	04/14/2016 0942
Bromodichloromethane	ND		1	0.50	ug/L	04/14/2016 0942
Bromoform	ND		1	0.50	ug/L	04/14/2016 0942
Bromomethane (Methyl bromide)	ND		1	0.50	ug/L	04/14/2016 0942
2-Butanone (MEK)	ND		1	10	ug/L	04/14/2016 0942
Carbon disulfide	ND		1	0.50	ug/L	04/14/2016 0942
Carbon tetrachloride	ND		1	0.50	ug/L	04/14/2016 0942
Chlorobenzene	ND		1	0.50	ug/L	04/14/2016 0942
Chloroethane	ND		1	0.50	ug/L	04/14/2016 0942
Chloroform	ND		1	0.50	ug/L	04/14/2016 0942
Chloromethane (Methyl chloride)	ND		1	0.50	ug/L	04/14/2016 0942
Cyclohexane	ND		1	0.50	ug/L	04/14/2016 0942
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	0.50	ug/L	04/14/2016 0942
Dibromochloromethane	ND		1	0.50	ug/L	04/14/2016 0942
1,2-Dibromoethane (EDB)	ND		1	0.50	ug/L	04/14/2016 0942
1,4-Dichlorobenzene	ND		1	0.50	ug/L	04/14/2016 0942
1,2-Dichlorobenzene	ND		1	0.50	ug/L	04/14/2016 0942
1,3-Dichlorobenzene	ND		1	0.50	ug/L	04/14/2016 0942
Dichlorodifluoromethane	ND		1	0.50	ug/L	04/14/2016 0942
1,2-Dichloroethane	ND		1	0.50	ug/L	04/14/2016 0942
1,1-Dichloroethane	ND		1	0.50	ug/L	04/14/2016 0942
cis-1,2-Dichloroethene	ND		1	0.50	ug/L	04/14/2016 0942
trans-1,2-Dichloroethene	ND		1	0.50	ug/L	04/14/2016 0942
1,1-Dichloroethene	ND		1	0.50	ug/L	04/14/2016 0942
1,2-Dichloropropane	ND		1	0.50	ug/L	04/14/2016 0942
trans-1,3-Dichloropropene	ND		1	0.50	ug/L	04/14/2016 0942
cis-1,3-Dichloropropene	ND		1	0.50	ug/L	04/14/2016 0942
Ethylbenzene	ND		1	0.50	ug/L	04/14/2016 0942
2-Hexanone	ND		1	10	ug/L	04/14/2016 0942
Isopropylbenzene	ND		1	0.50	ug/L	04/14/2016 0942
Methyl acetate	ND		1	1.0	ug/L	04/14/2016 0942
Methyl tertiary butyl ether (MTBE)	ND		1	0.50	ug/L	04/14/2016 0942
4-Methyl-2-pentanone	ND		1	10	ug/L	04/14/2016 0942
Methylcyclohexane	ND		1	5.0	ug/L	04/14/2016 0942
Methylene chloride	ND		1	0.50	ug/L	04/14/2016 0942
Styrene	ND		1	0.50	ug/L	04/14/2016 0942
1,1,2,2-Tetrachloroethane	ND		1	0.50	ug/L	04/14/2016 0942
Tetrachloroethene	ND		1	0.50	ug/L	04/14/2016 0942
Toluene	ND		1	0.50	ug/L	04/14/2016 0942
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		1	0.50	ug/L	04/14/2016 0942
1,2,4-Trichlorobenzene	ND		1	0.50	ug/L	04/14/2016 0942
1,1,1-Trichloroethane	ND		1	0.50	ug/L	04/14/2016 0942
1,1,2-Trichloroethane	ND		1	0.50	ug/L	04/14/2016 0942

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

Volatile Organic Compounds by GC/MS - MB

Sample ID: RQ10894-001
Batch: 10894
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Trichloroethene	ND		1	0.50	ug/L	04/14/2016 0942
Trichlorofluoromethane	ND		1	0.50	ug/L	04/14/2016 0942
Vinyl chloride	ND		1	0.50	ug/L	04/14/2016 0942
Xylenes (total)	ND		1	0.50	ug/L	04/14/2016 0942

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		100	70-130
1,2-Dichloroethane-d4		97	70-130
Toluene-d8		99	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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: RQ10894-002
Batch: 10894
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	130		1	125	60-140	04/14/2016 0841
Benzene	50	48		1	96	70-130	04/14/2016 0841
Bromodichloromethane	50	49		1	97	70-130	04/14/2016 0841
Bromoform	50	42		1	84	70-130	04/14/2016 0841
Bromomethane (Methyl bromide)	50	47		1	94	60-140	04/14/2016 0841
2-Butanone (MEK)	100	100		1	102	60-140	04/14/2016 0841
Carbon disulfide	50	50		1	101	60-140	04/14/2016 0841
Carbon tetrachloride	50	54		1	108	70-130	04/14/2016 0841
Chlorobenzene	50	47		1	93	70-130	04/14/2016 0841
Chloroethane	50	44		1	88	60-140	04/14/2016 0841
Chloroform	50	49		1	98	70-130	04/14/2016 0841
Chloromethane (Methyl chloride)	50	41		1	83	50-130	04/14/2016 0841
Cyclohexane	50	53		1	106	70-130	04/14/2016 0841
1,2-Dibromo-3-chloropropane (DBCP)	50	45		1	90	70-130	04/14/2016 0841
Dibromochloromethane	50	50		1	99	70-130	04/14/2016 0841
1,2-Dibromoethane (EDB)	50	48		1	95	70-130	04/14/2016 0841
1,4-Dichlorobenzene	50	44		1	88	70-130	04/14/2016 0841
1,2-Dichlorobenzene	50	46		1	92	70-130	04/14/2016 0841
1,3-Dichlorobenzene	50	45		1	90	70-130	04/14/2016 0841
Dichlorodifluoromethane	50	39		1	77	60-140	04/14/2016 0841
1,2-Dichloroethane	50	46		1	92	70-130	04/14/2016 0841
1,1-Dichloroethane	50	50		1	100	70-130	04/14/2016 0841
cis-1,2-Dichloroethene	50	46		1	93	70-130	04/14/2016 0841
trans-1,2-Dichloroethene	50	52		1	104	70-130	04/14/2016 0841
1,1-Dichloroethene	50	52		1	104	70-130	04/14/2016 0841
1,2-Dichloropropane	50	46		1	93	70-130	04/14/2016 0841
trans-1,3-Dichloropropene	50	48		1	96	70-130	04/14/2016 0841
cis-1,3-Dichloropropene	50	50		1	101	70-130	04/14/2016 0841
Ethylbenzene	50	47		1	93	70-130	04/14/2016 0841
2-Hexanone	100	110		1	105	60-140	04/14/2016 0841
Isopropylbenzene	50	46		1	92	70-130	04/14/2016 0841
Methyl acetate	50	54		1	107	60-140	04/14/2016 0841
Methyl tertiary butyl ether (MTBE)	50	45		1	90	70-130	04/14/2016 0841
4-Methyl-2-pentanone	100	110		1	107	60-140	04/14/2016 0841
Methylcyclohexane	50	56		1	112	70-130	04/14/2016 0841
Methylene chloride	50	50		1	101	70-130	04/14/2016 0841
Styrene	50	49		1	98	70-130	04/14/2016 0841
1,1,2,2-Tetrachloroethane	50	47		1	95	70-130	04/14/2016 0841
Tetrachloroethene	50	52		1	104	70-130	04/14/2016 0841
Toluene	50	47		1	94	70-130	04/14/2016 0841
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	50		1	101	70-130	04/14/2016 0841
1,2,4-Trichlorobenzene	50	41		1	83	70-130	04/14/2016 0841
1,1,1-Trichloroethane	50	47		1	94	70-130	04/14/2016 0841
1,1,2-Trichloroethane	50	45		1	90	70-130	04/14/2016 0841

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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: RQ10894-002
Batch: 10894
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Trichloroethene	50	46		1	91	70-130	04/14/2016 0841
Trichlorofluoromethane	50	48		1	96	60-140	04/14/2016 0841
Vinyl chloride	50	50		1	100	60-140	04/14/2016 0841
Xylenes (total)	100	99		1	99	70-130	04/14/2016 0841

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		100	70-130
1,2-Dichloroethane-d4		95	70-130
Toluene-d8		101	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

Volatile Organic Compounds by GC/MS - Duplicate

Sample ID: RD13017-001DU
Batch: 10894
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	04/14/2016 1800
Benzene	ND	ND		1	0.00	20	04/14/2016 1800
Bromodichloromethane	ND	ND		1	0.00	20	04/14/2016 1800
Bromoform	ND	ND		1	0.00	20	04/14/2016 1800
Bromomethane (Methyl bromide)	ND	ND		1	0.00	20	04/14/2016 1800
2-Butanone (MEK)	ND	ND		1	0.00	20	04/14/2016 1800
Carbon disulfide	ND	ND		1	0.00	20	04/14/2016 1800
Carbon tetrachloride	ND	ND		1	0.00	20	04/14/2016 1800
Chlorobenzene	ND	ND		1	0.00	20	04/14/2016 1800
Chloroethane	ND	ND		1	0.00	20	04/14/2016 1800
Chloroform	ND	ND		1	0.00	20	04/14/2016 1800
Chloromethane (Methyl chloride)	ND	ND		1	0.00	20	04/14/2016 1800
Cyclohexane	ND	ND		1	0.00	20	04/14/2016 1800
1,2-Dibromo-3-chloropropane (DBCP)	ND	ND		1	0.00	20	04/14/2016 1800
Dibromochloromethane	ND	ND		1	0.00	20	04/14/2016 1800
1,2-Dibromoethane (EDB)	ND	ND		1	0.00	20	04/14/2016 1800
1,3-Dichlorobenzene	ND	ND		1	0.00	20	04/14/2016 1800
1,2-Dichlorobenzene	ND	ND		1	0.00	20	04/14/2016 1800
1,4-Dichlorobenzene	ND	ND		1	0.00	20	04/14/2016 1800
Dichlorodifluoromethane	0.62	0.70		1	12	20	04/14/2016 1800
1,1-Dichloroethane	ND	ND		1	0.00	20	04/14/2016 1800
1,2-Dichloroethane	ND	ND		1	0.00	20	04/14/2016 1800
trans-1,2-Dichloroethene	ND	ND		1	0.00	20	04/14/2016 1800
1,1-Dichloroethene	ND	ND		1	0.00	20	04/14/2016 1800
cis-1,2-Dichloroethene	ND	ND		1	0.00	20	04/14/2016 1800
1,2-Dichloropropane	ND	ND		1	0.00	20	04/14/2016 1800
trans-1,3-Dichloropropene	ND	ND		1	0.00	20	04/14/2016 1800
cis-1,3-Dichloropropene	ND	ND		1	0.00	20	04/14/2016 1800
Ethylbenzene	ND	ND		1	0.00	20	04/14/2016 1800
2-Hexanone	ND	ND		1	0.00	20	04/14/2016 1800
Isopropylbenzene	ND	ND		1	0.00	20	04/14/2016 1800
Methyl acetate	ND	ND		1	0.00	20	04/14/2016 1800
Methyl tertiary butyl ether (MTBE)	ND	ND		1	0.00	20	04/14/2016 1800
4-Methyl-2-pentanone	ND	ND		1	0.00	20	04/14/2016 1800
Methylcyclohexane	ND	ND		1	0.00	20	04/14/2016 1800
Methylene chloride	ND	ND		1	0.00	20	04/14/2016 1800
Styrene	ND	ND		1	0.00	20	04/14/2016 1800
1,1,2,2-Tetrachloroethane	ND	ND		1	0.00	20	04/14/2016 1800
Tetrachloroethene	ND	ND		1	0.00	20	04/14/2016 1800
Toluene	ND	ND		1	0.00	20	04/14/2016 1800
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ND		1	0.00	20	04/14/2016 1800
1,2,4-Trichlorobenzene	ND	ND		1	0.00	20	04/14/2016 1800
1,1,1-Trichloroethane	ND	ND		1	0.00	20	04/14/2016 1800
1,1,2-Trichloroethane	ND	ND		1	0.00	20	04/14/2016 1800

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

Volatile Organic Compounds by GC/MS - Duplicate

Sample ID: RD13017-001DU
Batch: 10894
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Result (ug/L)	Q	Dil	% RPD	% RPD Limit	Analysis Date
Trichloroethene	ND	ND		1	0.00	20	04/14/2016 1800
Trichlorofluoromethane	ND	ND		1	0.00	20	04/14/2016 1800
Vinyl chloride	ND	ND		1	0.00	20	04/14/2016 1800
Xylenes (total)	ND	ND		1	0.00	20	04/14/2016 1800

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		99	70-130
Bromofluorobenzene		102	70-130
Toluene-d8		100	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

Volatile Organic Compounds by GC/MS - MS

Sample ID: RD13017-002MS
Batch: 10894
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	150	N	1	151	60-140	04/14/2016 1823
Benzene	ND	50	56		1	112	70-130	04/14/2016 1823
Bromodichloromethane	ND	50	55		1	110	70-130	04/14/2016 1823
Bromoform	ND	50	38		1	77	70-130	04/14/2016 1823
Bromomethane (Methyl bromide)	ND	50	57		1	115	60-140	04/14/2016 1823
2-Butanone (MEK)	ND	100	110		1	115	60-140	04/14/2016 1823
Carbon disulfide	ND	50	53		1	106	60-140	04/14/2016 1823
Carbon tetrachloride	ND	50	64		1	128	70-130	04/14/2016 1823
Chlorobenzene	ND	50	53		1	106	70-130	04/14/2016 1823
Chloroethane	ND	50	59		1	119	60-140	04/14/2016 1823
Chloroform	ND	50	56		1	112	70-130	04/14/2016 1823
Chloromethane (Methyl chloride)	ND	50	50		1	101	20-158	04/14/2016 1823
Cyclohexane	ND	50	62		1	124	70-130	04/14/2016 1823
1,2-Dibromo-3-chloropropane (DBCP)	ND	50	54		1	107	70-130	04/14/2016 1823
Dibromochloromethane	ND	50	53		1	105	70-130	04/14/2016 1823
1,2-Dibromoethane (EDB)	ND	50	54		1	108	70-130	04/14/2016 1823
1,3-Dichlorobenzene	ND	50	53		1	107	70-130	04/14/2016 1823
1,2-Dichlorobenzene	ND	50	55		1	110	70-130	04/14/2016 1823
1,4-Dichlorobenzene	ND	50	51		1	102	70-130	04/14/2016 1823
Dichlorodifluoromethane	1.4	50	46		1	90	60-140	04/14/2016 1823
1,1-Dichloroethane	ND	50	59		1	117	70-130	04/14/2016 1823
1,2-Dichloroethane	ND	50	52		1	104	70-130	04/14/2016 1823
trans-1,2-Dichloroethene	ND	50	61		1	121	70-130	04/14/2016 1823
1,1-Dichloroethene	ND	50	62		1	123	70-130	04/14/2016 1823
cis-1,2-Dichloroethene	ND	50	54		1	107	70-130	04/14/2016 1823
1,2-Dichloropropane	ND	50	54		1	109	70-130	04/14/2016 1823
trans-1,3-Dichloropropene	ND	50	50		1	100	70-130	04/14/2016 1823
cis-1,3-Dichloropropene	ND	50	53		1	106	70-130	04/14/2016 1823
Ethylbenzene	ND	50	55		1	110	70-130	04/14/2016 1823
2-Hexanone	ND	100	120		1	116	60-140	04/14/2016 1823
Isopropylbenzene	ND	50	56		1	113	70-130	04/14/2016 1823
Methyl acetate	ND	50	57		1	114	15-128	04/14/2016 1823
Methyl tertiary butyl ether (MTBE)	ND	50	51		1	102	70-130	04/14/2016 1823
4-Methyl-2-pentanone	ND	100	120		1	122	60-140	04/14/2016 1823
Methylcyclohexane	ND	50	73	N	1	146	70-130	04/14/2016 1823
Methylene chloride	ND	50	57		1	115	70-130	04/14/2016 1823
Styrene	ND	50	55		1	111	70-130	04/14/2016 1823
1,1,2,2-Tetrachloroethane	ND	50	53		1	106	70-130	04/14/2016 1823
Tetrachloroethene	ND	50	63		1	126	70-130	04/14/2016 1823
Toluene	ND	50	55		1	110	70-130	04/14/2016 1823
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	61		1	122	70-130	04/14/2016 1823
1,2,4-Trichlorobenzene	ND	50	58		1	115	70-130	04/14/2016 1823
1,1,1-Trichloroethane	ND	50	55		1	110	70-130	04/14/2016 1823
1,1,2-Trichloroethane	ND	50	50		1	100	70-130	04/14/2016 1823

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

Volatile Organic Compounds by GC/MS - MS

Sample ID: RD13017-002MS
Batch: 10894
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
Trichloroethene	ND	50	53		1	106	70-130	04/14/2016 1823
Trichlorofluoromethane	ND	50	57		1	115	60-140	04/14/2016 1823
Vinyl chloride	ND	50	59		1	119	60-140	04/14/2016 1823
Xylenes (total)	ND	100	120		1	115	70-130	04/14/2016 1823

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		97	70-130
Bromofluorobenzene		100	70-130
Toluene-d8		101	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

Chain of Custody
and
Miscellaneous Documents

SHEALY ENVIRONMENTAL SERVICES, INC.

SHEALY **Chain of Custody Record**

SHEALY ENVIRONMENTAL SERVICES, INC.
106 Vantage Point Drive • West Columbia, SC 29172
Telephone No. 803-791-9700 Fax No. 803-791-9111
www.shealylab.com

Number 57622

Client: NCDEQ-DWM	Report to Contact: VINCE ANTRILLI	Telephone No. / E-mail: 919-707-8353	Quote No.
Address: 217 W JONES ST	Sampler's Signature: x Wade Kirby	Analysis (Attach list if more space is needed)	Page 1 of 1
City: RALEIGH State: NC Zip Code: 27603	Printed Name: WADE KIRBY		RD13017
Project Name: STANLEY CASE GOODS			
Project No.: NCD049645266	P.O. No.		

Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Time	G-Grab C-Composite	Matrix: Aqueous	Matrix: Solid	Matrix: Non-Aqueous	No of Containers by Preservative Type: Unpres.	HNO3	HNO3	HCl	NaOH	Soda Ash	VOCs	Remarks / Cooler I.D.
5349	4/12/2016	1031	G	✓						3			✓	
4049	4/12/2016	1102	↓	✓						3			✓	

Turn Around Time Required (Prior lab approval required for expedited TAT.)	Sample Disposal	Possible Hazard Identification	QC Requirements (Specify)
☑ Standard ☐ Rush (Specify)	☐ Return to Client ☐ Disposal by Lab	☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown	

	Date	Time		Date	Time
1. Relinquished by: Wade Kirby	4/12/2016	1300	1. Received by		
2. Relinquished by			2. Received by		
3. Relinquished by			3. Received by		
4. Relinquished by: FedEx	4/13/16	0845	4. Laboratory received by: [signature]	4/13/16	0845

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY
Received on ice (Circle) Yes No Ice Pack
Receipt Temp. 3.3 °C

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: F-AD-133 Effective Date: 09-01-2014

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

SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc.
Document Number: ME0018C-04

Page 1 of 1
Effective Date: 02/05/2016
Expiry Date: 02/05/2021

Sample Receipt Checklist (SRC)

Client: NCDENR Cooler Inspected by/date: MCM 04/13/16 Lot #: RD13017

Means of receipt: ☐ SESI ☐ Client ☐ UPS ☑ FedEx ☐ Other

Yes ☑	No ☐		1. Were custody seals present on the cooler?
Yes ☑	No ☐	NA ☐	2. If custody seals were present, were they intact and unbroken?

pH strip ID: _____ Cl strip ID: _____

Cooler ID/Original temperature upon receipt/Derived (corrected) temperature upon receipt:

/3.3/3.3 °C / / °C / / °C / / °C

Method: ☑ Temperature Blank ☐ Against Bottles IR Gun ID: 6 IR Gun Correction Factor: 0.0 °C

Method of coolant: ☑ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None

Yes ☐	No ☐	NA ☑	3. If temperature of any cooler exceeded 6.0°C, was Project Manager notified? PM was notified by: phone / email / face-to-face (circle one).
Yes ☐	No ☑	NA ☐	4. Is the commercial courier's packing slip attached to this form?
Yes ☑	No ☐		5. Were proper custody procedures (relinquished/received) followed?
Yes ☑	No ☐		6. Were sample IDs listed on the COC?
Yes ☑	No ☐		7. Were sample IDs listed on all sample containers?
Yes ☑	No ☐		8. Was collection date & time listed on the COC?
Yes ☑	No ☐		9. Was collection date & time listed on all sample containers?
Yes ☑	No ☐		10. Did all container label information (ID, date, time) agree with the COC?
Yes ☑	No ☐		11. Were tests to be performed listed on the COC?
Yes ☑	No ☐		12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?
Yes ☑	No ☐		13. Was adequate sample volume available?
Yes ☑	No ☐		14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☑		15. Were any samples containers missing/excess (circle one) samples not listed on COC?
Yes ☐	No ☑	NA ☐	16. Were bubbles present >"pea-size" (¼"or 6mm in diameter) in any VOA vials?
Yes ☐	No ☐	NA ☑	17. Were all metals/O&G/HEM/nutrient samples received at a pH of <2?
Yes ☐	No ☐	NA ☑	18. Were all cyanide and/or sulfide samples received at a pH >12?
Yes ☐	No ☐	NA ☑	19. Were all applicable NH3/TKN/cyanide/phenol (<0.2mg/L) samples free of residual chlorine?
Yes ☐	No ☐	NA ☑	20. Were collection temperatures documented on the COC for NC samples?
Yes ☐	No ☐	NA ☑	21. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc...) correctly transcribed from the COC into the comment section in LIMS?
Yes ☐	No ☑		22. Was the quote number used taken from the container label?

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) _____ were received incorrectly preserved and were adjusted accordingly in sample receiving with _____ (H_2SO_4, HNO3, HCl, NaOH) using SR # _____.

Sample(s) _____ were received with bubbles >6 mm in diameter.

Samples(s) _____ were received with TRC >0.2 mg/L (If #21 is No) and were adjusted accordingly in sample receiving with sodium thiosulfate ($Na_2S_2O_3$) with Shealy ID: _____.

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: MCM Verified by: _____ Date: 4/13/16

Comments: _____

Waste Management
ENVIRONMENTAL QUALITY

RECEIVED
MAR 21 2016
FAYETTEVILLE REGIONAL OFFICE

PAT MCCRORY
Governor

DONALD R. VAN DER VAART
Secretary

MICHAEL E. SCOTT
Acting Director

PROPERTY ACCESS & SAMPLING PERMISSION

I am the owner of the property located at 4049 Highway 73, West End North Carolina. I grant the Division of Waste Management and/or its contractors permission to access my property and collect samples as indicated below from my property.

_XX_ Potable Well. Does your well have a treatment system (Yes/No)? No
How many wells are located on your property? 1

___ Soil (Surface Grab Sample)

___ Soil Gas Probes

___ Groundwater (Installation of monitoring wells)

___ Crawlspace Vapor Sampling

___ Indoor Air Vapor Sampling

___ Other (Include Description)_____

Jerry Wicka
910-
639-1302
947-3795
639-1303

LARRY UPOLE
(Print Name)

910-295-6915
(Telephone Number)

Larry Upole
(Signature)

3-17-16
(Date)

Please return this signed form in the enclosed stamped envelope to:

P. Sean Boyles, PG
Inactive Hazardous Sites Branch
Division of Waste Management
225 Green Street, Suite 714
Fayetteville, North Carolina 28301

Stanley Case Goods
West End, Moore County
IHSB ID NCD 049 845 266

Waste Management
ENVIRONMENTAL QUALITY

PAT MCCRORY
Governor

DONALD R. VAN DER VAART
Secretary

MICHAEL E. SCOTT
Acting Director

March 14, 2016

Larry Upole
804 NC Highway 73
West End, NC 27376

Re: Water Supply Well Sampling
4049 Highway 73 West End
Stanley Case Goods Site
IHSB ID NCD 049 845 266

Dear Mr. McNeil:

The North Carolina Department of Environmental Quality, Division of Waste Management (Division) is currently conducting monitoring of groundwater contamination in the area of your property located at 4049 Highway 73 in West End, Moore County, North Carolina. The purpose of this letter is to request your permission to sample the water supply well located on your property. This sampling will be performed by Division staff or the Division's contractor at no cost to you. You do not have to be present to have your well sampled. 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. ***To provide the Division permission to sample your well, please sign the attached permission form and return it to our office in the enclosed stamped envelope within 14 days or as soon as possible.***

If you do not wish to grant the Division permission to sample your well, we recommend you have it tested for Volatile Organic Compounds (VOCs) by a private laboratory or the local health department because of the concerns for contamination in the area. The private lab or health department will likely charge a fee for this sampling. Please contact me at (910) 433-3343 or by email at sean.boyles@ncdenr.gov if you have any questions.

Sincerely,

P. Sean Boyles, PG
Hydrogeologist
Inactive Hazardous Sites Branch

Attachment

Waste Management
ENVIRONMENTAL QUALITY

RECEIVED
APR 04 2016

PAT MCCRORY
Governor

DONALD R. VAN DER VAART
Secretary

MICHAEL E. SCOTT
Acting Director

FAYETTEVILLE REGIONAL OFFICE

PROPERTY ACCESS & SAMPLING PERMISSION

I am the owner of the property located at 5349 Highway 73, West End North Carolina. I grant the Division of Waste Management and/or its contractors permission to access my property and collect samples as indicated below from my property.

_XX_ Potable Well. Does your well have a treatment system (Yes/No)? No
How many wells are located on your property? 1

___ Soil (Surface Grab Sample)

___ Soil Gas Probes

___ Groundwater (Installation of monitoring wells)

___ Crawlspace Vapor Sampling

___ Indoor Air Vapor Sampling

___ Other (Include Description)_____

McNeill Oil Co. by Frank McNeill Jr.
(Print Name)

910-315-4766
(Telephone Number)

Frank McNeill Jr.
(Signature)

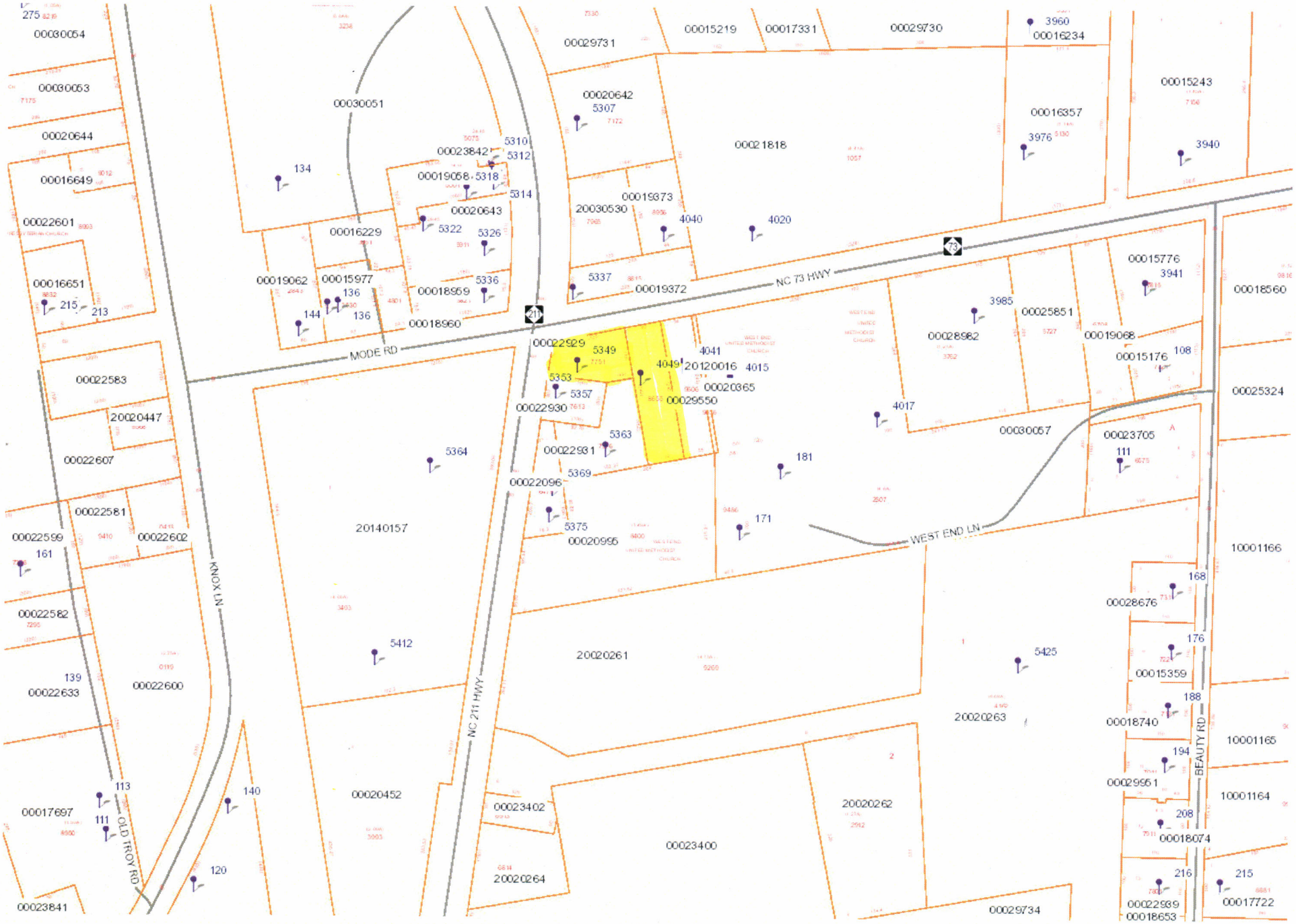
3-28-16
(Date)

Please return this signed form in the enclosed stamped envelope to:

P. Sean Boyles, PG
Inactive Hazardous Sites Branch
Division of Waste Management
225 Green Street, Suite 714
Fayetteville, North Carolina 28301

Stanley Case Goods
West End, Moore County
IHSB ID NCD 049 845 266

The above is my cell phone number. Feel free to call if you have any questions when you are on site.
Frank



MODE RD
NC 73 HWY
WEST END LN
KNOX LN
NC 211 HWY
OLD TROY RD
BEAUTY RD
00030054
00030053
00020644
00016649
00022601
00016651
00022583
20020447
00022607
00022581
00022599
00022602
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00015359
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10001165
10001164

Waste Management
ENVIRONMENTAL QUALITY

MEMORANDUM

Date: April 15, 2016

To: File

From: Vince Antrilli
Raleigh Regional Office
Inactive Hazardous Sites Branch

Re: Stanly Case Goods – Sampling Trip Summary
NCD049845266

- Wade Kirby & Brian Wootton visited the site on April 12, 2016 to perform well sampling in the area. They sampled the addresses list below:
  4049 Hwy 73
  5349 Hwy 73
- No other property owners responded to the sample request nor were home at the time of sampling.
- The sample collected was sent to Shealy Lab on April 12, 2016.

Well Log Sheet

Site Name: STANLEY CASE GOODS
Site Id #: NCD 049845266
Owner Name: LARRY UPOLE
Well Address: 4049 Hwy 73
Well ID #: 4049

Coordinates: _____ N
_____ E

WEST END, STANLEY Co

Weather
Temp: 60
Wind: sl. breeze
Percip: drizzle

Date: 4/12/2016
Sample Team: WOOTEN & KIRBY

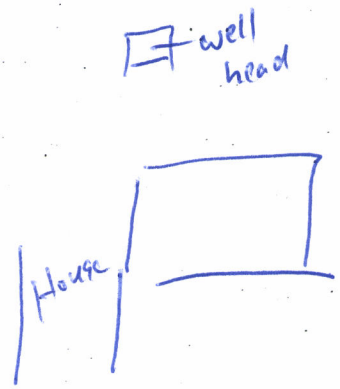
Comments (well construction, etc.) sampled from kitchen sink, outside faucet did not work, heavy top on well head & nobody knew if it had a faucet

Time Interval	5 Min	10 Min	15 Min	20 Min	25 Min
Temp (°C)	16.8	17.3	17.4		
pH	5.60	5.17	4.96		
S.C.	77.55	77.00	77.22		
Turbidity					

Time Sample Collected: 1102

Water Condition (turbodity, color, odor): _____

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: STANLEY CASE GOODS

Site Id #: NCD049845266

Owner Name: FRANK McNEILL (McNEILL OIL Co)

Well Address: 5349 HWY 73

Well ID #: 5349

WEST END, STANLEY Co

Coordinates: _____ N

_____ E

Weather

Temp: 60

Wind: calm

Percip: drizzle

Date: 4/12/2016

Sample Team: WOOTEN & KIRBY

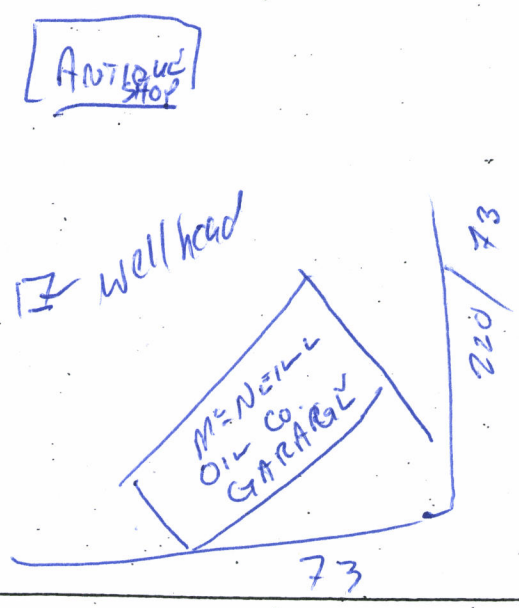
Comments (well construction, etc.) sampled from well head

Time Interval	5 Min	10 Min	15 Min	20 Min	25 Min
Temp (°C)	17.7	18.4	18.1		
pH	4.95	4.62	4.26		
S.C.	85.57	89.24	86.94		
Turbidity					

Time Sample Collected: 1031

Water Condition (turbodity, color, odor): _____

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: _____

SHEALY

Chain of Custody Record

SHEALY ENVIRONMENTAL SERVICES, INC.
106 Vantage Point Drive • West Columbia, SC 29172
Telephone No. 803-791-9700 Fax No. 803-791-9111
www.shealylab.com

Number 57622

Client: NCDEQ - DWM	Report to Contact: VINCE ANTRILLI	Telephone No. / E-mail: 919-707-8353	Quote No.
Address: 217 W JONES ST	Sampler's Signature: X Wade Kirby	Analysis (Attach list if more space is needed): VOCs	Page 1 of 1
City: RALEIGH; State: NC; Zip Code: 27603	Printed Name: WADE KIRBY		
Project Name: STANLEY CASE GOODS			
Project No.: NCD049845266	P.O. No.		Laboratory Lot Number

Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Time	G=Grab C=Composite	Matrix: Aqueous	Solid	Non-Aqueous	No of Containers by Preservative Type: Unpres.	H2SO4	HNO3	HCl	NaOH	5035 Kit	VOCs	Remarks / Cooler I.D.
5349	4/12/2016	1031	G	✓						3			✓	
4049	4/12/2016	1102	↓	✓						3			✓	

Turn Around Time Required (Prior lab approval required for expedited TAT.) ☑ **Standard** ☐ **Rush (Specify)**

Sample Disposal: ☐ Return to Client ☐ Disposal by Lab

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished by: Wade Kirby	4/12/2016	1300	1. Received by		
2. Relinquished by			2. Received by		
3. Relinquished by			3. Received by		
4. Relinquished by			4. Laboratory received by		

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY
Received on ice (Circle) Yes No Ice Pack
Receipt Temp._____°C

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: F-AD-133 Effective Date: 08-01-2014