



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: December 14, 2011

To: File

From: Vince Antrilli
Raleigh Regional Office
Inactive Hazardous Sites Branch

Re: Nello-Teer Quarry-Denfield – Sampling Trip Summary
NONCD0002873

-
- On December 14, 2011, Larry Rose and I visited the site to sample water supply wells in the area. We samples wells located at:
 - 4911 Denfield St.
 - 1003 Communication Dr
 - The samples collected from 4911 Denfield were to follow up and verify results from samples taken Nov 15, 2011 which detected 1,4 Dioxane at 7.4 ug/L.
 - Samples @ 4911 Denfield were collected from the pump house and inside the residence. The inside samples were collected at the request of the property owner.
 - During the collection of the sample from the kitchen faucet we observed a reaction in the voa that caused a white smoke.
 - Property owner stated that they do not intend to return the Bernard Allen Affidavit until the results of this recent test are known.
 - Samples collected from 1003 Communication were because of a late approval from our previous request.



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: November 15, 2011

To: File

From: Vince Antrilli
Raleigh Regional Office
Inactive Hazardous Sites Branch

Re: Nello-Teer Quarry-Denfield – Sampling Trip Summary
NONCD0002873

-
- On November 15, 2011, Larry Rose and I visited the site to sample water supply wells in the area. We samples wells located at:
 - 4911 Denfield St.
 - 1006 Communication DrNo one else responded to sample requests nor were home at the time of our field investigation.
 - We observed that a residential neighborhood to the south was supplied by public water.
 - Samples were sent to Shealey Labs on 11/15/11.

Nello Teer - NONCD0002873

Well Address	Sample Date	Sample By	Well ID#	PCE 2L= 0.7 MCL= 5 RAL= 12	TCE 2L= 3 MCL= 5 RAL= 300	1,4-Dioxane 2L= 3 MCL= RAL= 611	Chloromethane 2L= 3 MCL= RAL= 563	Toluene 2L= 600 MCL= 1000 RAL=	Xylenes 2L= 500 MCL= 10000 RAL= 10000	Acetone 2L= 6000 MCL= RAL= 55500	1,2 Dichloropropane 2L= 0.6 MCL= 5 RAL=	MTBE 2L= 20 MCL= RAL= 1250	HRE Sent	Comments
4918 Denfield St	5/21/2010		WSW-A							5.1				
5010 Denfield St	5/21/2010		WSW-B				0.41			9.2		0.78		
4911 Denfield St	5/21/2010		WSW-C				0.33			2.7				
	11/15/2011		NT-C			7.4								
	12/14/2011		NT-C1	No Detections										NT-C1:Sample collected from kitchen faucet
	12/14/2011		NT-C2				0.61							NT-C2:Sample collected from faucet at pump house
1002 Communication Dr	6/3/2010		WSW-D			0.28	1	0.38	9.3		0.15			
1003 Communication Dr	5/21/2010		WSW-E							11.8	1.3	0.59		
	12/14/2011		NT-E	No Detections										
1006 Communication Dr	5/21/2010		WSW-F				0.35			6.1		1.7		
	11/15/2011		NT-F									0.68		

Notes:

All units in ug/l (ppb)
 Above MDL Limit =
 Above 2L Limit =
 Above MCL Limit =
 Above RAL =
 Chloroform Below 2L =
 HRE Sent =
 *=Sample collected after filter system
 (T) or (t) = Total

BOLD
BOLD
BOLD
BOLD
BOLD
NOT BOLD

1,1-DCA = 1,1-Dichloroethane
 1,1-DCE = 1,1-Dichloroethene
 cis-1,2-DCE = cis-1,2-Dichloroethene
 Chloromethane (AKA - Methyl Chloride)
 PCE = Tetrachloroethene
 TCE = Trichloroethene



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

Beverly Eaves Perdue
Governor

Dexter R. Matthews
Director

Dee Freeman
Secretary

December 6, 2011

Douglas & Kimberly Robbins
7408 Blalock Rd
Bahama, NC 27503

RE: Water Supply Well Sampling – Nello Teer site (NONCD 000 2873)
4918 & 5010 Denfield St
Durham, NC 27704

Dear Mr. & Mrs. Robbins:

My name is Vincent Antrilli with North Carolina Department of Environment and Natural Resources, Division of Waste Management. The purpose of this letter is to contact you pursuant to ground water contamination detected in your area. On **December 14th, 2011**, I will be in Durham County area collecting additional groundwater samples related to the groundwater contamination in your area. Recent sampling performed in November 2011 has found contamination levels in nearby wells that exceed safe levels for human consumption. I would like to sample your well(s) at the above referenced address during that time. You do not have to be present to have your well sampled and there is no cost to you. The laboratory results will be forwarded to you as soon as possible.

Please contact me by one of the following ways to confirm that *you would* or *would not* like your well sampled. You can reach me by calling (919) 707-8353, emailing me at Vincent.Antrilli@ncdenr.gov or respond to this letter stating you do wish or do not wish to have your well sampled. I will be happy to answer any questions you may have at that time.

Sincerely,

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



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

Beverly Eaves Perdue
Governor

Dexter R. Matthews
Director

Dee Freeman
Secretary

October 31, 2011

Rodney Thomas
1002 Communication Dr
Durham, NC 27704

RE: Water Supply Well Sampling – Nello Teer site (NONCD 000 2873)
1002 Communication Dr
Durham, NC 27704

Dear Mr. Thomas:

My name is Vincent Antrilli with North Carolina Department of Environment and Natural Resources, Division of Waste Management. The purpose of this letter is to contact you pursuant to ground water contamination detected in your area. During the week of **November 21st, 2011**, I will be in the Alamance County area collecting groundwater samples related to the groundwater contamination in your area. I would like to sample your well at the above referenced address during that time. You do not have to be present to have your well sampled and there is no cost to you. The laboratory results will be forwarded to you as soon as possible. Please provide the following information, *if you know it*, when you contact me.

- The number of wells on your property are _____.
- The depth of the well(s) are _____ ft.
- The well(s) are being used for the following purposes:
_____.

- The well water goes through a filtration system before the water enters the house. YES / NO

- Is there a tap at the well head or outside wall spigot of the residence? YES / NO
 - If YES which one? _____

- Your contact information:
 - Phone # _____

 - Email Address _____

Please contact me by one of the following ways to confirm that ***you would*** or ***would not*** like your well sampled. You can reach me by calling (919) 707-8353, emailing me at Vincent.Antrilli@ncdenr.gov or respond to this letter stating you do wish or do not wish to have your well sampled. I will be happy to answer any questions you may have at that time.

Sincerely,

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



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

Beverly Eaves Perdue
Governor

Dexter R. Matthews
Director

Dee Freeman
Secretary

October 31, 2011

Harvey Harris
125 Chattleton Ct
Durham, NC 27712

RE: Water Supply Well Sampling – Nello Teer site (NONCD 000 2873)
1003 Communication Dr
Durham, NC 27704

Dear Mr. Harris:

My name is Vincent Antrilli with North Carolina Department of Environment and Natural Resources, Division of Waste Management. The purpose of this letter is to contact you pursuant to ground water contamination detected in your area. During the week of **November 21st, 2011**, I will be in the Alamance County area collecting groundwater samples related to the groundwater contamination in your area. I would like to sample your well at the above referenced address during that time. You do not have to be present to have your well sampled and there is no cost to you. The laboratory results will be forwarded to you as soon as possible. Please provide the following information, *if you know it*, when you contact me.

- The number of wells on your property are _____.
- The depth of the well(s) are _____ ft.
- The well(s) are being used for the following purposes:
_____.

- The well water goes through a filtration system before the water enters the house. YES / NO

- Is there a tap at the well head or outside wall spigot of the residence? YES / NO
 - If YES which one? _____

- Your contact information:
 - Phone # _____

 - Email Address _____

Please contact me by one of the following ways to confirm that ***you would*** or ***would not*** like your well sampled. You can reach me by calling (919) 707-8353, emailing me at Vincent.Antrilli@ncdenr.gov or respond to this letter stating you do wish or do not wish to have your well sampled. I will be happy to answer any questions you may have at that time.

Sincerely,

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



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

Beverly Eaves Perdue
Governor

Dexter R. Matthews
Director

Dee Freeman
Secretary

October 31, 2011

Donald Ward
1220 Crystal Forest Dr
Semora, NC 27343

RE: Water Supply Well Sampling – Nello Teer site (NONCD 000 2873)
1006 Communication Dr
Durham, NC 27704

Dear Mr. Ward:

My name is Vincent Antrilli with North Carolina Department of Environment and Natural Resources, Division of Waste Management. The purpose of this letter is to contact you pursuant to ground water contamination detected in your area. During the week of **November 21st, 2011**, I will be in the Alamance County area collecting groundwater samples related to the groundwater contamination in your area. I would like to sample your well at the above referenced address during that time. You do not have to be present to have your well sampled and there is no cost to you. The laboratory results will be forwarded to you as soon as possible. Please provide the following information, *if you know it*, when you contact me.

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- The well(s) are being used for the following purposes:
_____.

- The well water goes through a filtration system before the water enters the house. YES / NO

- Is there a tap at the well head or outside wall spigot of the residence? YES / NO
 - If YES which one? _____

- Your contact information:
 - Phone # _____

 - Email Address _____

Please contact me by one of the following ways to confirm that ***you would*** or ***would not*** like your well sampled. You can reach me by calling (919) 707-8353, emailing me at Vincent.Antrilli@ncdenr.gov or respond to this letter stating you do wish or do not wish to have your well sampled. I will be happy to answer any questions you may have at that time.

Sincerely,

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



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

Beverly Eaves Perdue
Governor

Dexter R. Matthews
Director

Dee Freeman
Secretary

October 31, 2011

Julius & Cheri Bartell
4911 Denfield St
Durham, NC 27704

RE: Water Supply Well Sampling – Nello Teer site (NONCD 000 2873)
4911 Denfield St
Durham, NC 27704

Dear Mr. & Mrs. Bartell:

My name is Vincent Antrilli with North Carolina Department of Environment and Natural Resources, Division of Waste Management. The purpose of this letter is to contact you pursuant to ground water contamination detected in your area. During the week of **November 21st, 2011**, I will be in the Alamance County area collecting groundwater samples related to the groundwater contamination in your area. I would like to sample your well at the above referenced address during that time. You do not have to be present to have your well sampled and there is no cost to you. The laboratory results will be forwarded to you as soon as possible. Please provide the following information, *if you know it*, when you contact me.

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- The depth of the well(s) are _____ ft.
- The well(s) are being used for the following purposes:
_____.

- The well water goes through a filtration system before the water enters the house. YES / NO

- Is there a tap at the well head or outside wall spigot of the residence? YES / NO
 - If YES which one? _____

- Your contact information:
 - Phone # _____

 - Email Address _____

Please contact me by one of the following ways to confirm that ***you would*** or ***would not*** like your well sampled. You can reach me by calling (919) 707-8353, emailing me at Vincent.Antrilli@ncdenr.gov or respond to this letter stating you do wish or do not wish to have your well sampled. I will be happy to answer any questions you may have at that time.

Sincerely,

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



North Carolina Department of Environment and Natural Resources
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October 31, 2011

Douglas & Kimberly Robbins
7408 Blalock Rd
Bahama, NC 27503

RE: Water Supply Well Sampling – Nello Teer site (NONCD 000 2873)
4918 & 5010 Denfield St
Durham, NC 27704

Dear Mr. & Mrs. Robbins:

My name is Vincent Antrilli with North Carolina Department of Environment and Natural Resources, Division of Waste Management. The purpose of this letter is to contact you pursuant to ground water contamination detected in your area. During the week of **November 21st, 2011**, I will be in the Alamance County area collecting groundwater samples related to the groundwater contamination in your area. I would like to sample your well at the above referenced address during that time. You do not have to be present to have your well sampled and there is no cost to you. The laboratory results will be forwarded to you as soon as possible. Please provide the following information, *if you know it*, when you contact me.

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Sincerely,

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

Report of Analysis

NCDENR - DWM - DSCA

401 Oberlin Rd
Suite 210
Raleigh, NC 27605
Attention: Vincent Antrilli

Project Name: **Nello-Teer**

Lot Number: **MK16009**
Date Completed: **11/30/2011**



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.

* MK16009 *

SHEALY ENVIRONMENTAL SERVICES, INC.

SC DHEC No: 32010

NELAC No: E87653

NC DENR No: 329

Case Narrative

NC DENR - DWM - DSCA

Lot Number: MK16009

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.

Shealy is not NELAC certified for Phosphorus by 365.1 but is certified in SC and NC.

Shealy is not NELAC certified for VPH, but is certified for VPH in NC.

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: MK16009

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	Trip Blank	Aqueous	11/15/2011	11/16/2011
002	NT-C	Aqueous	11/15/2011 1145	11/16/2011
003	NT-F	Aqueous	11/15/2011 1205	11/16/2011

(3 samples)

SHEALY ENVIRONMENTAL SERVICES, INC.

Executive Summary NCDENR - DWM - DSCA Lot Number: MK16009

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
002	NT-C	Aqueous	1,4-Dioxane	8260B (SIM)	7.4		ug/L	8
003	NT-F	Aqueous	Methyl tertiary butyl ether (MTBE)	8260B	0.68		ug/L	12

(2 detections)

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: NCDENR - DWM - DSCA	Laboratory ID: MK16009-001
Description: Trip Blank	Matrix: Aqueous
Date Sampled: 11/15/2011	
Date Received: 11/16/2011	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	11/28/2011 1353	SAS		72536

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM iso.)	ND		3.0	ug/L	1

Surrogate	Run 1 Q	% Recovery	Acceptance Limits
1,2-Dichloroethane-d4		96	40-170

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" * = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

Client: **NCDENR - DWM - DSCA**

Laboratory ID: **MK16009-001**

Description: **Trip Blank**

Matrix: **Aqueous**

Date Sampled: **11/15/2011**

Date Received: **11/16/2011**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/21/2011 1141	BM		72202

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" * = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

Client: NCDENR - DWM - DSCA	Laboratory ID: MK16009-001
Description: Trip Blank	Matrix: Aqueous
Date Sampled: 11/15/2011	
Date Received: 11/16/2011	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/21/2011 1141	BM		72202

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		99	70-130
Bromofluorobenzene		95	70-130
Toluene-d8		99	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" * = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: NCDENR - DWM - DSCA	Laboratory ID: MK16009-002
Description: NT-C	Matrix: Aqueous
Date Sampled: 11/15/2011 1145	
Date Received: 11/16/2011	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	11/28/2011 2015	SAS		72536

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,4-Dioxane	123-91-8	8260B (SIM iso.)	7.4		3.0	ug/L	1

Surrogate	Run 1 Q	% Recovery	Acceptance Limits
1,2-Dichloroethane-d4		113	40-170

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" * = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

 Client: **NCDENR - DWM - DSCA**

 Laboratory ID: **MK16009-002**

 Description: **NT-C**

 Matrix: **Aqueous**

 Date Sampled: **11/15/2011 1145**

 Date Received: **11/16/2011**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/21/2011 1202	BM		72202

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"

* = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

Client: **NCDENR - DWM - DSCA**

Laboratory ID: **MK16009-002**

Description: **NT-C**

Matrix: **Aqueous**

Date Sampled: **11/15/2011 1145**

Date Received: **11/16/2011**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/21/2011 1202	BM		72202

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		97	70-130
Toluene-d8		99	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"

* = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: NCDENR - DWM - DSCA	Laboratory ID: MK16009-003
Description: NT-F	Matrix: Aqueous
Date Sampled: 11/15/2011 1205	
Date Received: 11/16/2011	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	11/28/2011 2037	SAS		72536

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM iso.)	ND		3.0	ug/L	1

Surrogate	Run 1 Q	% Recovery	Acceptance Limits
1,2-Dichloroethane-d4		117	40-170

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" * = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

Client: **NCDENR - DWM - DSCA**

Laboratory ID: **MK16009-003**

Description: **NT-F**

Matrix: **Aqueous**

Date Sampled: **11/15/2011 1205**

Date Received: **11/16/2011**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/21/2011 1223	BM		72202

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	0.68		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"

* = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

Client: NCDENR - DWM - DSCA	Laboratory ID: MK16009-003
Description: NT-F	Matrix: Aqueous
Date Sampled: 11/15/2011 1205	
Date Received: 11/16/2011	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/21/2011 1223	BM		72202

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		97	70-130
Toluene-d8		99	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" * = Reportable result (only when report all runs)

QC Summary

Volatile Organic Compounds by GC/MS - MB

Sample ID: MQ72202-001

Matrix: Aqueous

Batch: 72202

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Acetone	ND		1	10	ug/L	11/21/2011 1023
Benzene	ND		1	0.50	ug/L	11/21/2011 1023
Bromodichloromethane	ND		1	0.50	ug/L	11/21/2011 1023
Bromoform	ND		1	0.50	ug/L	11/21/2011 1023
Bromomethane (Methyl bromide)	ND		1	0.50	ug/L	11/21/2011 1023
2-Butanone (MEK)	ND		1	10	ug/L	11/21/2011 1023
Carbon disulfide	ND		1	0.50	ug/L	11/21/2011 1023
Carbon tetrachloride	ND		1	0.50	ug/L	11/21/2011 1023
Chlorobenzene	ND		1	0.50	ug/L	11/21/2011 1023
Chloroethane	ND		1	0.50	ug/L	11/21/2011 1023
Chloroform	ND		1	0.50	ug/L	11/21/2011 1023
Chloromethane (Methyl chloride)	ND		1	0.50	ug/L	11/21/2011 1023
Cyclohexane	ND		1	0.50	ug/L	11/21/2011 1023
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	0.50	ug/L	11/21/2011 1023
Dibromochloromethane	ND		1	0.50	ug/L	11/21/2011 1023
1,2-Dibromoethane (EDB)	ND		1	0.50	ug/L	11/21/2011 1023
1,4-Dichlorobenzene	ND		1	0.50	ug/L	11/21/2011 1023
1,3-Dichlorobenzene	ND		1	0.50	ug/L	11/21/2011 1023
1,2-Dichlorobenzene	ND		1	0.50	ug/L	11/21/2011 1023
Dichlorodifluoromethane	ND		1	0.50	ug/L	11/21/2011 1023
1,2-Dichloroethane	ND		1	0.50	ug/L	11/21/2011 1023
1,1-Dichloroethane	ND		1	0.50	ug/L	11/21/2011 1023
trans-1,2-Dichloroethene	ND		1	0.50	ug/L	11/21/2011 1023
cis-1,2-Dichloroethene	ND		1	0.50	ug/L	11/21/2011 1023
1,1-Dichloroethene	ND		1	0.50	ug/L	11/21/2011 1023
1,2-Dichloropropane	ND		1	0.50	ug/L	11/21/2011 1023
trans-1,3-Dichloropropene	ND		1	0.50	ug/L	11/21/2011 1023
cis-1,3-Dichloropropene	ND		1	0.50	ug/L	11/21/2011 1023
Ethylbenzene	ND		1	0.50	ug/L	11/21/2011 1023
2-Hexanone	ND		1	10	ug/L	11/21/2011 1023
Isopropylbenzene	ND		1	0.50	ug/L	11/21/2011 1023
Methyl acetate	ND		1	1.0	ug/L	11/21/2011 1023
Methyl tertiary butyl ether (MTBE)	ND		1	0.50	ug/L	11/21/2011 1023
4-Methyl-2-pentanone	ND		1	10	ug/L	11/21/2011 1023
Methylcyclohexane	ND		1	5.0	ug/L	11/21/2011 1023
Methylene chloride	ND		1	0.50	ug/L	11/21/2011 1023
Styrene	ND		1	0.50	ug/L	11/21/2011 1023
1,1,2,2-Tetrachloroethane	ND		1	0.50	ug/L	11/21/2011 1023
Tetrachloroethene	ND		1	0.50	ug/L	11/21/2011 1023
Toluene	ND		1	0.50	ug/L	11/21/2011 1023
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		1	0.50	ug/L	11/21/2011 1023
1,2,4-Trichlorobenzene	ND		1	0.50	ug/L	11/21/2011 1023
1,1,2-Trichloroethane	ND		1	0.50	ug/L	11/21/2011 1023
1,1,1-Trichloroethane	ND		1	0.50	ug/L	11/21/2011 1023

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 - MB

Sample ID: MQ72202-001

Matrix: Aqueous

Batch: 72202

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Trichloroethene	ND		1	0.50	ug/L	11/21/2011 1023
Trichlorofluoromethane	ND		1	0.50	ug/L	11/21/2011 1023
Vinyl chloride	ND		1	0.50	ug/L	11/21/2011 1023
Xylenes (total)	ND		1	0.50	ug/L	11/21/2011 1023
Surrogate	Q	% Rec	Acceptance Limit			
Bromofluorobenzene		98	70-130			
1,2-Dichloroethane-d4		102	70-130			
Toluene-d8		100	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 - LCS

Sample ID: MQ72202-002

Matrix: Aqueous

Batch: 72202

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	100	98		1	98	46-153	11/21/2011 0859
Benzene	50	45		1	90	70-130	11/21/2011 0859
Bromodichloromethane	50	53		1	106	70-130	11/21/2011 0859
Bromoform	50	47		1	94	70-130	11/21/2011 0859
Bromomethane (Methyl bromide)	50	31		1	62	60-140	11/21/2011 0859
2-Butanone (MEK)	100	100		1	101	60-140	11/21/2011 0859
Carbon disulfide	50	44		1	89	60-140	11/21/2011 0859
Carbon tetrachloride	50	50		1	100	70-130	11/21/2011 0859
Chlorobenzene	50	48		1	95	70-130	11/21/2011 0859
Chloroethane	50	37		1	75	42-163	11/21/2011 0859
Chloroform	50	48		1	97	70-130	11/21/2011 0859
Chloromethane (Methyl chloride)	50	36		1	71	20-158	11/21/2011 0859
Cyclohexane	50	45		1	90	70-130	11/21/2011 0859
1,2-Dibromo-3-chloropropane (DBCP)	50	46		1	91	70-130	11/21/2011 0859
Dibromochloromethane	50	47		1	94	70-130	11/21/2011 0859
1,2-Dibromoethane (EDB)	50	51		1	102	70-130	11/21/2011 0859
1,4-Dichlorobenzene	50	47		1	94	70-130	11/21/2011 0859
1,3-Dichlorobenzene	50	49		1	97	70-130	11/21/2011 0859
1,2-Dichlorobenzene	50	49		1	97	70-130	11/21/2011 0859
Dichlorodifluoromethane	50	33		1	65	60-140	11/21/2011 0859
1,2-Dichloroethane	50	47		1	95	70-130	11/21/2011 0859
1,1-Dichloroethane	50	45		1	90	70-130	11/21/2011 0859
trans-1,2-Dichloroethene	50	45		1	89	70-130	11/21/2011 0859
cis-1,2-Dichloroethene	50	46		1	92	70-130	11/21/2011 0859
1,1-Dichloroethene	50	43		1	87	70-130	11/21/2011 0859
1,2-Dichloropropane	50	48		1	97	70-130	11/21/2011 0859
trans-1,3-Dichloropropene	50	47		1	95	70-130	11/21/2011 0859
cis-1,3-Dichloropropene	50	54		1	108	70-130	11/21/2011 0859
Ethylbenzene	50	50		1	100	70-130	11/21/2011 0859
2-Hexanone	100	110		1	112	60-140	11/21/2011 0859
Isopropylbenzene	50	50		1	101	70-130	11/21/2011 0859
Methyl acetate	50	45		1	91	15-128	11/21/2011 0859
Methyl tertiary butyl ether (MTBE)	50	46		1	93	70-130	11/21/2011 0859
4-Methyl-2-pentanone	100	120		1	115	60-140	11/21/2011 0859
Methylcyclohexane	50	48		1	96	70-130	11/21/2011 0859
Methylene chloride	50	46		1	91	70-130	11/21/2011 0859
Styrene	50	50		1	101	70-130	11/21/2011 0859
1,1,2,2-Tetrachloroethane	50	49		1	99	70-130	11/21/2011 0859
Tetrachloroethene	50	47		1	95	70-130	11/21/2011 0859
Toluene	50	48		1	96	70-130	11/21/2011 0859
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	53		1	106	70-130	11/21/2011 0859
1,2,4-Trichlorobenzene	50	51		1	103	70-130	11/21/2011 0859
1,1,2-Trichloroethane	50	48		1	96	70-130	11/21/2011 0859
1,1,1-Trichloroethane	50	48		1	96	70-130	11/21/2011 0859

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 - LCS

Sample ID: MQ72202-002

Matrix: Aqueous

Batch: 72202

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	11/21/2011 0859
Trichlorofluoromethane	50	42		1	84	60-140	11/21/2011 0859
Vinyl chloride	50	37		1	74	60-140	11/21/2011 0859
Xylenes (total)	100	100		1	100	70-130	11/21/2011 0859
Surrogate	Q	% Rec			Acceptance Limit		
Bromofluorobenzene		101			70-130		
1,2-Dichloroethane-d4		107			70-130		
Toluene-d8		103			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: MQ72202-003

Matrix: Aqueous

Batch: 72202

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	91		1	91	6.5	46-153	20	11/21/2011 0920
Benzene	50	45		1	91	0.94	70-130	20	11/21/2011 0920
Bromodichloromethane	50	53		1	106	0.29	70-130	20	11/21/2011 0920
Bromoform	50	46		1	92	2.4	70-130	20	11/21/2011 0920
Bromomethane (Methyl bromide)	50	35		1	70	11	60-140	20	11/21/2011 0920
2-Butanone (MEK)	100	94		1	94	7.5	60-140	20	11/21/2011 0920
Carbon disulfide	50	44		1	89	0.17	60-140	20	11/21/2011 0920
Carbon tetrachloride	50	49		1	99	1.4	70-130	20	11/21/2011 0920
Chlorobenzene	50	48		1	96	0.71	70-130	20	11/21/2011 0920
Chloroethane	50	37		1	74	0.46	42-163	20	11/21/2011 0920
Chloroform	50	49		1	97	0.060	70-130	20	11/21/2011 0920
Chloromethane (Methyl chloride)	50	35		1	71	0.92	20-158	20	11/21/2011 0920
Cyclohexane	50	44		1	88	1.5	70-130	20	11/21/2011 0920
1,2-Dibromo-3-chloropropane (DBCP)	50	44		1	88	3.2	70-130	20	11/21/2011 0920
Dibromochloromethane	50	47		1	93	0.85	70-130	20	11/21/2011 0920
1,2-Dibromoethane (EDB)	50	51		1	101	0.96	70-130	20	11/21/2011 0920
1,4-Dichlorobenzene	50	47		1	95	0.88	70-130	20	11/21/2011 0920
1,3-Dichlorobenzene	50	48		1	96	1.2	70-130	20	11/21/2011 0920
1,2-Dichlorobenzene	50	48		1	95	2.2	70-130	20	11/21/2011 0920
Dichlorodifluoromethane	50	32		1	64	1.4	60-140	20	11/21/2011 0920
1,2-Dichloroethane	50	47		1	93	2.0	70-130	20	11/21/2011 0920
1,1-Dichloroethane	50	45		1	89	0.41	70-130	20	11/21/2011 0920
trans-1,2-Dichloroethene	50	44		1	88	1.5	70-130	20	11/21/2011 0920
cis-1,2-Dichloroethene	50	45		1	91	0.64	70-130	20	11/21/2011 0920
1,1-Dichloroethene	50	43		1	87	0.021	70-130	20	11/21/2011 0920
1,2-Dichloropropane	50	49		1	98	1.1	70-130	20	11/21/2011 0920
trans-1,3-Dichloropropene	50	47		1	94	1.1	70-130	20	11/21/2011 0920
cis-1,3-Dichloropropene	50	54		1	108	0.86	70-130	20	11/21/2011 0920
Ethylbenzene	50	50		1	100	0.64	70-130	20	11/21/2011 0920
2-Hexanone	100	110		1	106	5.8	60-140	20	11/21/2011 0920
Isopropylbenzene	50	51		1	102	1.2	70-130	20	11/21/2011 0920
Methyl acetate	50	43		1	86	5.5	15-128	20	11/21/2011 0920
Methyl tertiary butyl ether (MTBE)	50	45		1	91	2.0	70-130	20	11/21/2011 0920
4-Methyl-2-pentanone	100	110		1	110	4.7	60-140	20	11/21/2011 0920
Methylcyclohexane	50	48		1	96	0.46	70-130	20	11/21/2011 0920
Methylene chloride	50	45		1	90	0.65	70-130	20	11/21/2011 0920
Styrene	50	51		1	101	0.56	70-130	20	11/21/2011 0920
1,1,2,2-Tetrachloroethane	50	49		1	98	0.98	70-130	20	11/21/2011 0920
Tetrachloroethene	50	48		1	96	1.5	70-130	20	11/21/2011 0920
Toluene	50	48		1	96	0.10	70-130	20	11/21/2011 0920
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	52		1	104	1.6	70-130	20	11/21/2011 0920
1,2,4-Trichlorobenzene	50	50		1	101	2.1	70-130	20	11/21/2011 0920
1,1,2-Trichloroethane	50	47		1	95	1.2	70-130	20	11/21/2011 0920
1,1,1-Trichloroethane	50	48		1	96	0.12	70-130	20	11/21/2011 0920

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: MQ72202-003

Matrix: Aqueous

Batch: 72202

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	48		1	96	1.7	70-130	20	11/21/2011 0920
Trichlorofluoromethane	50	42		1	84	0.77	60-140	20	11/21/2011 0920
Vinyl chloride	50	37		1	73	1.5	60-140	20	11/21/2011 0920
Xylenes (total)	100	100		1	100	0.39	70-130	20	11/21/2011 0920
Surrogate	Q	% Rec	Acceptance Limit						
Bromofluorobenzene		99	70-130						
1,2-Dichloroethane-d4		104	70-130						
Toluene-d8		101	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 (SIM with isotope dilution) - MB

Sample ID: MQ72536-001

Matrix: Aqueous

Batch: 72536

Prep Method: 5030B

Analytical Method: 8260B (SIM iso.)

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
1,4-Dioxane	ND		1	3.0	ug/L	11/28/2011 1316
Surrogate	Q	% Rec	Acceptance Limit			
1,2-Dichloroethane-d4		82	40-170			

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 (SIM with isotope dilution) - LCS

Sample ID: MQ72536-002

Matrix: Aqueous

Batch: 72536

Prep Method: 5030B

Analytical Method: 8260B (SIM iso.)

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,4-Dioxane	50	47		1	95	43-173	11/28/2011 1213
Surrogate	Q	% Rec	Acceptance Limit				
1,2-Dichloroethane-d4		73	40-170				

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 (SIM with isotope dilution) - LCSD

Sample ID: MQ72536-003

Matrix: Aqueous

Batch: 72536

Prep Method: 5030B

Analytical Method: 8260B (SIM iso.)

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
1,4-Dioxane	50	47		1	94	0.83	43-173	20	11/28/2011 1234
Surrogate	Q	% Rec	Acceptance Limit						
1,2-Dichloroethane-d4		78	40-170						

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.

Shealy Environmental Services, Inc.
 Document Number: F-AD-016
 Revision Number: 9

Page 1 of 1
 Replaces Date: 05/06/11
 Effective Date: 10/11/11

Sample Receipt Checklist (SRC)

Client: NCDENR Cooler Inspected by/date: EW 11/14/11 Lot # HK14009

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 checked="" type="checkbox"/> No <input type="checkbox"/>		1. Were custody seals present on the cooler?
Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		2. If custody seals were present, were they intact and unbroken?
Cooler ID/temperature upon receipt <u>2-12</u> °C / °C / °C / °C		
Method: <input type="checkbox"/> Temperature Blank <input checked="" type="checkbox"/> Against Bottles		
Method of coolant: <input checked="" type="checkbox"/> Wet Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> Dry Ice <input type="checkbox"/> None		
If response is No (or Yes for 14, 15, 16), an explanation/resolution must be provided.		
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?
Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		7. Was collection date & time listed?
Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		8. Were tests to be performed listed on the COC?
Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		9. Did all samples arrive in the proper containers for each test?
Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		10. Did all container label information (ID, date, time) agree with COC?
Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		11. Did all containers arrive in good condition (unbroken, lids on, etc.)?
Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		12. Was adequate sample volume available?
Yes <input type="checkbox"/> No <input type="checkbox"/>		13. Were all samples received within 1/2 the holding time or 48 hours, whichever comes first?
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		14. Were any samples containers missing?
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		15. Were there any excess samples not listed on COC?
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA <input type="checkbox"/>		16. Were bubbles present >"pea-size" (1/4" or 6mm in diameter) in any VOA vials?
Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>		17. 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"/>		18. 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"/>		19. Were all applicable NH3/TKN/cyanide/phenol/BNA/pest/PCB/herb (<0.2mg/L) samples free of residual chlorine?
Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>		20. Were collection temperatures documented on the COC for NC samples?
Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>		21. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc...) correctly transcribed from the COC into the comment section in LIMS?
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 ₂ SO ₄ , HNO ₃ , HCl, NaOH) with the SR # (number) _____		
Sample(s) _____ were received with bubbles >6 mm in diameter.		
Sample(s) _____ were received with TRC >0.2 mg/L for NH3/TKN/cyanide/BNA/pest/PCB/herb.		

Corrective Action taken, if necessary:
 Was client notified: Yes No Did client respond: Yes No
 SESI employee: _____ Date of response: _____
 Comments: _____

SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc.
 Document Number: F-AD-016
 Revision Number: 9

Page 1 of 1
 Replaces Date: 05/06/11
 Effective Date: 10/11/11

Sample Receipt Checklist (SRC)

Client: NCDCNR Cooler Inspected by/date: ew 11/14/11 Lot # HK14009

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 checked="" type="checkbox"/> No <input type="checkbox"/>		1. Were custody seals present on the cooler?
Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		2. If custody seals were present, were they intact and unbroken?
Cooler ID/temperature upon receipt <u>2-12</u> °C <u>1</u> °C <u>1</u> °C <u>1</u> °C		
Method: <input type="checkbox"/> Temperature Blank <input checked="" type="checkbox"/> Against Bottles		
Method of coolant: <input checked="" type="checkbox"/> Wet Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> Dry Ice <input type="checkbox"/> None		
If response is No (or Yes for 14, 15, 16), an explanation/resolution must be provided.		
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?
Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		7. Was collection date & time listed?
Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		8. Were tests to be performed listed on the COC?
Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		9. Did all samples arrive in the proper containers for each test?
Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		10. Did all container label information (ID, date, time) agree with COC?
Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		11. Did all containers arrive in good condition (unbroken, lids on, etc.)?
Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		12. Was adequate sample volume available?
Yes <input type="checkbox"/> No <input type="checkbox"/>		13. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		14. Were any samples containers missing?
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		15. Were there any excess samples not listed on COC?
Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> NA <input type="checkbox"/>		16. 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"/>		17. 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"/>		18. 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"/>		19. Were all applicable NH ₃ /TKN/cyanide/phenol/BNA/pest/PCB/herb (<0.2mg/L) samples free of residual chlorine?
Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>		20. Were collection temperatures documented on the COC for NC samples?
Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>		21. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc...) correctly transcribed from the COC into the comment section in LIMS?
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 ₂ SO ₄ , HNO ₃ , HCl, NaOH) with the SR # (number)		
Sample(s) <u>001 TB (2)</u> were received with bubbles >6 mm in diameter.		
Sample(s) _____ were received with TRC >0.2 mg/L for NH ₃ /TKN/cyanide/BNA/pest/PCB/herb.		

Corrective Action taken, if necessary:

Was client notified: Yes No

Did client respond: Yes No

SESI employee: _____

Date of response: _____

Comments: _____

Report of Analysis

NCDENR - DWM - DSCA
401 Oberlin Rd
Suite 210
Raleigh, NC 27605
Attention: Vincent Antrilli

Project Name: Nello-Teer

Project Number: NONCD0002873

Lot Number: ML15014

Date Completed: 12/29/2011



Nisreen Saikaly
Project Manager



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

* ML15014 *

Case Narrative
NCDENR - DWM - DSCA
Lot Number: ML15014

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.

Volatile Organic Compounds

Samples for 1,4-Dioxane were analyzed outside the holding time due to analyst error.

Volatile Organic Compounds

The LCS recovery for Methylcyclohexane and 1,1,2-Trichloro-1,2,2-Trifluoroethane exceeded method control limits in batch 74287; however, all other QA/QC criteria for the LCS/LCSD were within acceptance criteria and method control limits. The associated sample results were non-detect, therefore the results were reported and no corrective action was required.

SHEALY ENVIRONMENTAL SERVICES, INC.

Sample Summary NCDENR - DWM - DSCA Lot Number: ML15014

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	TRIP BLANK	Aqueous	12/14/2011	12/15/2011
002	NT-C1	Aqueous	12/14/2011 0925	12/15/2011
003	NT-C2	Aqueous	12/14/2011 0940	12/15/2011
004	NT-E	Aqueous	12/14/2011 1015	12/15/2011

(4 samples)

SHEALY ENVIRONMENTAL SERVICES, INC.

Executive Summary NCDENR - DWM - DSCA Lot Number: ML15014

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	TRIP BLANK	Aqueous	Toluene	8260B	0.67		ug/L	6
003	NT-C2	Aqueous	Chloromethane (Methyl chloride)	8260B	0.61		ug/L	12

(2 detections)

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: NCDENR - DWM - DSCA	Laboratory ID: ML15014-001
Description: TRIP BLANK	Matrix: Aqueous
Date Sampled: 12/14/2011	
Date Received: 12/15/2011	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	12/28/2011 2339	JJG		74608

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM iso.)	ND		3.0	ug/L	1
Surrogate	Run 1 % Recovery	Acceptance Limits					
1,2-Dichloroethane-d4	88	40-170					

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" * = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

Client: NCDENR - DWM - DSCA

Laboratory ID: ML15014-001

Description: TRIP BLANK

Matrix: Aqueous

Date Sampled: 12/14/2011

Date Received: 12/15/2011

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/23/2011 2349	JJG		74440

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	0.67		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" * = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

Client: NCDENR - DWM - DSCA	Laboratory ID: ML15014-001
Description: TRIP BLANK	Matrix: Aqueous
Date Sampled: 12/14/2011	
Date Received: 12/15/2011	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/23/2011 2349	JJG		74440

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		92	70-130
Bromofluorobenzene		98	70-130
Toluene-d8		102	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" * = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: NCDENR - DWM - DSCA	Laboratory ID: ML15014-002
Description: NT-C1	Matrix: Aqueous
Date Sampled: 12/14/2011 0925	
Date Received: 12/15/2011	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	12/29/2011 0002	JJG		74608

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM iso.)	ND	H	3.0	ug/L	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits				
1,2-Dichloroethane-d4	H	105	40-170				

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" * = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

Client: NCDENR - DWM - DSCA

Laboratory ID: ML15014-002

Description: NT-C1

Matrix: Aqueous

Date Sampled: 12/14/2011 0925

Date Received: 12/15/2011

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/22/2011 0351	JJG		74287

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" * = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

Client: NCDENR - DWM - DSCA	Laboratory ID: ML15014-002
Description: NT-C1	Matrix: Aqueous
Date Sampled: 12/14/2011 0925	
Date Received: 12/15/2011	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/22/2011 0351	JJG		74287

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		94	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" * = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: NCDENR - DWM - DSCA	Laboratory ID: ML15014-003
Description: NT-C2	Matrix: Aqueous
Date Sampled: 12/14/2011 0940	
Date Received: 12/15/2011	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	12/29/2011 0049	JJG		74608

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM iso.)	ND	H	3.0	ug/L	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits				
1,2-Dichloroethane-d4	H	122	40-170				

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" * = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

Client: NCDENR - DWM - DSCA

Laboratory ID: ML15014-003

Description: NT-C2

Matrix: Aqueous

Date Sampled: 12/14/2011 0940

Date Received: 12/15/2011

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/22/2011 0412	JJG		74287

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	0.61		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" * = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

Client: NCDENR - DWM - DSCA	Laboratory ID: ML15014-003
Description: NT-C2	Matrix: Aqueous
Date Sampled: 12/14/2011 0940	
Date Received: 12/15/2011	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/22/2011 0412	JJG		74287

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		94	70-130
Bromofluorobenzene		99	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" * = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: NCDENR - DWM - DSCA	Laboratory ID: ML15014-004
Description: NT-E	Matrix: Aqueous
Date Sampled: 12/14/2011 1015	
Date Received: 12/15/2011	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	12/29/2011 0135	JJG		74608

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM iso.)	ND	H	3.0	ug/L	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits				
1,2-Dichloroethane-d4	H	123	40-170				

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" * = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

Client: NCDENR - DWM - DSCA

Laboratory ID: ML15014-004

Description: NT-E

Matrix: Aqueous

Date Sampled: 12/14/2011 1015

Date Received: 12/15/2011

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/22/2011 0433	JJG		74287

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" * = Reportable result (only when report all runs)

Volatile Organic Compounds by GC/MS

Client: NCDENR - DWM - DSCA	Laboratory ID: ML15014-004
Description: NT-E	Matrix: Aqueous
Date Sampled: 12/14/2011 1015	
Date Received: 12/15/2011	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/22/2011 0433	JJG		74287

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		94	70-130
Bromofluorobenzene		99	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" * = Reportable result (only when report all runs)

QC Summary

Volatile Organic Compounds by GC/MS - MB

Sample ID: MQ74287-001

Matrix: Aqueous

Batch: 74287

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Acetone	ND		1	10	ug/L	12/22/2011 0004
Benzene	ND		1	0.50	ug/L	12/22/2011 0004
Bromodichloromethane	ND		1	0.50	ug/L	12/22/2011 0004
Bromoform	ND		1	0.50	ug/L	12/22/2011 0004
Bromomethane (Methyl bromide)	ND		1	0.50	ug/L	12/22/2011 0004
2-Butanone (MEK)	ND		1	10	ug/L	12/22/2011 0004
Carbon disulfide	ND		1	0.50	ug/L	12/22/2011 0004
Carbon tetrachloride	ND		1	0.50	ug/L	12/22/2011 0004
Chlorobenzene	ND		1	0.50	ug/L	12/22/2011 0004
Chloroethane	ND		1	0.50	ug/L	12/22/2011 0004
Chloroform	ND		1	0.50	ug/L	12/22/2011 0004
Chloromethane (Methyl chloride)	ND		1	0.50	ug/L	12/22/2011 0004
Cyclohexane	ND		1	0.50	ug/L	12/22/2011 0004
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	0.50	ug/L	12/22/2011 0004
Dibromochloromethane	ND		1	0.50	ug/L	12/22/2011 0004
1,2-Dibromoethane (EDB)	ND		1	0.50	ug/L	12/22/2011 0004
1,2-Dichlorobenzene	ND		1	0.50	ug/L	12/22/2011 0004
1,4-Dichlorobenzene	ND		1	0.50	ug/L	12/22/2011 0004
1,3-Dichlorobenzene	ND		1	0.50	ug/L	12/22/2011 0004
Dichlorodifluoromethane	ND		1	0.50	ug/L	12/22/2011 0004
1,2-Dichloroethane	ND		1	0.50	ug/L	12/22/2011 0004
1,1-Dichloroethane	ND		1	0.50	ug/L	12/22/2011 0004
trans-1,2-Dichloroethene	ND		1	0.50	ug/L	12/22/2011 0004
1,1-Dichloroethene	ND		1	0.50	ug/L	12/22/2011 0004
cis-1,2-Dichloroethene	ND		1	0.50	ug/L	12/22/2011 0004
1,2-Dichloropropane	ND		1	0.50	ug/L	12/22/2011 0004
cis-1,3-Dichloropropene	ND		1	0.50	ug/L	12/22/2011 0004
trans-1,3-Dichloropropene	ND		1	0.50	ug/L	12/22/2011 0004
Ethylbenzene	ND		1	0.50	ug/L	12/22/2011 0004
2-Hexanone	ND		1	10	ug/L	12/22/2011 0004
Isopropylbenzene	ND		1	0.50	ug/L	12/22/2011 0004
Methyl acetate	ND		1	1.0	ug/L	12/22/2011 0004
Methyl tertiary butyl ether (MTBE)	ND		1	0.50	ug/L	12/22/2011 0004
4-Methyl-2-pentanone	ND		1	10	ug/L	12/22/2011 0004
Methylcyclohexane	ND		1	5.0	ug/L	12/22/2011 0004
Methylene chloride	ND		1	0.50	ug/L	12/22/2011 0004
Styrene	ND		1	0.50	ug/L	12/22/2011 0004
1,1,2,2-Tetrachloroethane	ND		1	0.50	ug/L	12/22/2011 0004
Tetrachloroethene	ND		1	0.50	ug/L	12/22/2011 0004
Toluene	ND		1	0.50	ug/L	12/22/2011 0004
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		1	0.50	ug/L	12/22/2011 0004
1,2,4-Trichlorobenzene	ND		1	0.50	ug/L	12/22/2011 0004
1,1,2-Trichloroethane	ND		1	0.50	ug/L	12/22/2011 0004
1,1,1-Trichloroethane	ND		1	0.50	ug/L	12/22/2011 0004

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 - MB

Sample ID: MQ74287-001

Matrix: Aqueous

Batch: 74287

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Trichloroethene	ND		1	0.50	ug/L	12/22/2011 0004
Trichlorofluoromethane	ND		1	0.50	ug/L	12/22/2011 0004
Vinyl chloride	ND		1	0.50	ug/L	12/22/2011 0004
Xylenes (total)	ND		1	0.50	ug/L	12/22/2011 0004
Surrogate	Q	% Rec	Acceptance Limit			
Bromofluorobenzene		98	70-130			
1,2-Dichloroethane-d4		90	70-130			
Toluene-d8		99	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 - LCS

Sample ID: MQ74287-002

Matrix: Aqueous

Batch: 74287

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	100	100		1	100	46-153	12/21/2011 2240
Benzene	50	58		1	116	70-130	12/21/2011 2240
Bromodichloromethane	50	50		1	100	70-130	12/21/2011 2240
Bromoform	50	46		1	92	70-130	12/21/2011 2240
Bromomethane (Methyl bromide)	50	58		1	116	60-140	12/21/2011 2240
2-Butanone (MEK)	100	110		1	115	60-140	12/21/2011 2240
Carbon disulfide	50	55		1	110	60-140	12/21/2011 2240
Carbon tetrachloride	50	55		1	109	70-130	12/21/2011 2240
Chlorobenzene	50	58		1	116	70-130	12/21/2011 2240
Chloroethane	50	54		1	108	42-163	12/21/2011 2240
Chloroform	50	54		1	109	70-130	12/21/2011 2240
Chloromethane (Methyl chloride)	50	50		1	100	20-158	12/21/2011 2240
Cyclohexane	50	53		1	106	70-130	12/21/2011 2240
1,2-Dibromo-3-chloropropane (DBCP)	50	48		1	95	70-130	12/21/2011 2240
Dibromochloromethane	50	50		1	100	70-130	12/21/2011 2240
1,2-Dibromoethane (EDB)	50	52		1	104	70-130	12/21/2011 2240
1,2-Dichlorobenzene	50	60		1	120	70-130	12/21/2011 2240
1,4-Dichlorobenzene	50	58		1	115	70-130	12/21/2011 2240
1,3-Dichlorobenzene	50	60		1	120	70-130	12/21/2011 2240
Dichlorodifluoromethane	50	51		1	101	60-140	12/21/2011 2240
1,2-Dichloroethane	50	49		1	99	70-130	12/21/2011 2240
1,1-Dichloroethane	50	56		1	112	70-130	12/21/2011 2240
trans-1,2-Dichloroethene	50	57		1	115	70-130	12/21/2011 2240
1,1-Dichloroethene	50	57		1	114	70-130	12/21/2011 2240
cis-1,2-Dichloroethene	50	58		1	117	70-130	12/21/2011 2240
1,2-Dichloropropane	50	58		1	117	70-130	12/21/2011 2240
cis-1,3-Dichloropropene	50	52		1	105	70-130	12/21/2011 2240
trans-1,3-Dichloropropene	50	50		1	101	70-130	12/21/2011 2240
Ethylbenzene	50	61		1	121	70-130	12/21/2011 2240
2-Hexanone	100	100		1	103	60-140	12/21/2011 2240
Isopropylbenzene	50	58		1	116	70-130	12/21/2011 2240
Methyl acetate	50	51		1	102	15-128	12/21/2011 2240
Methyl tertiary butyl ether (MTBE)	50	51		1	103	70-130	12/21/2011 2240
4-Methyl-2-pentanone	100	100		1	102	60-140	12/21/2011 2240
Methylcyclohexane	50	65	N	1	131	70-130	12/21/2011 2240
Methylene chloride	50	56		1	111	70-130	12/21/2011 2240
Styrene	50	59		1	118	70-130	12/21/2011 2240
1,1,2,2-Tetrachloroethane	50	60		1	119	70-130	12/21/2011 2240
Tetrachloroethene	50	58		1	117	70-130	12/21/2011 2240
Toluene	50	58		1	115	70-130	12/21/2011 2240
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	66	N	1	132	70-130	12/21/2011 2240
1,2,4-Trichlorobenzene	50	60		1	120	70-130	12/21/2011 2240
1,1,2-Trichloroethane	50	56		1	112	70-130	12/21/2011 2240
1,1,1-Trichloroethane	50	53		1	106	70-130	12/21/2011 2240

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 - LCS

Sample ID: MQ74287-002

Matrix: Aqueous

Batch: 74287

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Trichloroethene	50	58		1	116	70-130	12/21/2011 2240
Trichlorofluoromethane	50	51		1	102	60-140	12/21/2011 2240
Vinyl chloride	50	54		1	108	60-140	12/21/2011 2240
Xylenes (total)	100	120		1	120	70-130	12/21/2011 2240
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		103	70-130				
1,2-Dichloroethane-d4		93	70-130				
Toluene-d8		103	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: MQ74287-003

Matrix: Aqueous

Batch: 74287

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	101	0.56	46-153	20	12/21/2011 2301
Benzene	50	58		1	115	1.1	70-130	20	12/21/2011 2301
Bromodichloromethane	50	50		1	99	0.41	70-130	20	12/21/2011 2301
Bromoform	50	46		1	91	1.1	70-130	20	12/21/2011 2301
Bromomethane (Methyl bromide)	50	57		1	114	1.6	60-140	20	12/21/2011 2301
2-Butanone (MEK)	100	120		1	115	0.38	60-140	20	12/21/2011 2301
Carbon disulfide	50	55		1	110	0.28	60-140	20	12/21/2011 2301
Carbon tetrachloride	50	55		1	109	0.057	70-130	20	12/21/2011 2301
Chlorobenzene	50	57		1	114	1.6	70-130	20	12/21/2011 2301
Chloroethane	50	54		1	108	0.21	42-163	20	12/21/2011 2301
Chloroform	50	54		1	108	0.67	70-130	20	12/21/2011 2301
Chloromethane (Methyl chloride)	50	49		1	98	2.2	20-158	20	12/21/2011 2301
Cyclohexane	50	53		1	106	0.70	70-130	20	12/21/2011 2301
1,2-Dibromo-3-chloropropane (DBCP)	50	47		1	95	0.92	70-130	20	12/21/2011 2301
Dibromochloromethane	50	49		1	99	1.1	70-130	20	12/21/2011 2301
1,2-Dibromoethane (EDB)	50	52		1	104	0.76	70-130	20	12/21/2011 2301
1,2-Dichlorobenzene	50	58		1	116	2.7	70-130	20	12/21/2011 2301
1,4-Dichlorobenzene	50	56		1	113	2.2	70-130	20	12/21/2011 2301
1,3-Dichlorobenzene	50	59		1	117	2.7	70-130	20	12/21/2011 2301
Dichlorodifluoromethane	50	51		1	101	0.083	60-140	20	12/21/2011 2301
1,2-Dichloroethane	50	49		1	98	0.90	70-130	20	12/21/2011 2301
1,1-Dichloroethane	50	56		1	112	0.15	70-130	20	12/21/2011 2301
trans-1,2-Dichloroethene	50	57		1	114	0.40	70-130	20	12/21/2011 2301
1,1-Dichloroethene	50	57		1	115	0.22	70-130	20	12/21/2011 2301
cis-1,2-Dichloroethene	50	58		1	116	0.37	70-130	20	12/21/2011 2301
1,2-Dichloropropane	50	58		1	116	0.65	70-130	20	12/21/2011 2301
cis-1,3-Dichloropropene	50	52		1	103	1.2	70-130	20	12/21/2011 2301
trans-1,3-Dichloropropene	50	50		1	99	1.5	70-130	20	12/21/2011 2301
Ethylbenzene	50	60		1	120	1.0	70-130	20	12/21/2011 2301
2-Hexanone	100	100		1	102	1.1	60-140	20	12/21/2011 2301
Isopropylbenzene	50	56		1	113	2.6	70-130	20	12/21/2011 2301
Methyl acetate	50	51		1	101	0.67	15-128	20	12/21/2011 2301
Methyl tertiary butyl ether (MTBE)	50	51		1	101	1.6	70-130	20	12/21/2011 2301
4-Methyl-2-pentanone	100	100		1	101	1.1	60-140	20	12/21/2011 2301
Methylcyclohexane	50	63		1	126	3.6	70-130	20	12/21/2011 2301
Methylene chloride	50	56		1	111	0.074	70-130	20	12/21/2011 2301
Styrene	50	58		1	115	2.0	70-130	20	12/21/2011 2301
1,1,2,2-Tetrachloroethane	50	59		1	118	1.3	70-130	20	12/21/2011 2301
Tetrachloroethene	50	58		1	115	1.1	70-130	20	12/21/2011 2301
Toluene	50	57		1	114	1.2	70-130	20	12/21/2011 2301
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	65		1	130	1.9	70-130	20	12/21/2011 2301
1,2,4-Trichlorobenzene	50	56		1	113	5.9	70-130	20	12/21/2011 2301
1,1,2-Trichloroethane	50	55		1	110	1.5	70-130	20	12/21/2011 2301
1,1,1-Trichloroethane	50	53		1	105	0.21	70-130	20	12/21/2011 2301

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: MQ74287-003

Matrix: Aqueous

Batch: 74287

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	57		1	114	1.1	70-130	20	12/21/2011 2301
Trichlorofluoromethane	50	50		1	101	0.78	60-140	20	12/21/2011 2301
Vinyl chloride	50	54		1	108	0.32	60-140	20	12/21/2011 2301
Xylenes (total)	100	120		1	118	1.8	70-130	20	12/21/2011 2301
Surrogate	Q	% Rec	Acceptance Limit						
Bromofluorobenzene		100	70-130						
1,2-Dichloroethane-d4		87	70-130						
Toluene-d8		100	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 - MB

Sample ID: MQ74440-001

Matrix: Aqueous

Batch: 74440

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Acetone	ND		1	10	ug/L	12/23/2011 2316
Benzene	ND		1	0.50	ug/L	12/23/2011 2316
Bromodichloromethane	ND		1	0.50	ug/L	12/23/2011 2316
Bromoform	ND		1	0.50	ug/L	12/23/2011 2316
Bromomethane (Methyl bromide)	ND		1	0.50	ug/L	12/23/2011 2316
2-Butanone (MEK)	ND		1	10	ug/L	12/23/2011 2316
Carbon disulfide	ND		1	0.50	ug/L	12/23/2011 2316
Carbon tetrachloride	ND		1	0.50	ug/L	12/23/2011 2316
Chlorobenzene	ND		1	0.50	ug/L	12/23/2011 2316
Chloroethane	ND		1	0.50	ug/L	12/23/2011 2316
Chloroform	ND		1	0.50	ug/L	12/23/2011 2316
Chloromethane (Methyl chloride)	ND		1	0.50	ug/L	12/23/2011 2316
Cyclohexane	ND		1	0.50	ug/L	12/23/2011 2316
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	0.50	ug/L	12/23/2011 2316
Dibromochloromethane	ND		1	0.50	ug/L	12/23/2011 2316
1,2-Dibromoethane (EDB)	ND		1	0.50	ug/L	12/23/2011 2316
1,4-Dichlorobenzene	ND		1	0.50	ug/L	12/23/2011 2316
1,3-Dichlorobenzene	ND		1	0.50	ug/L	12/23/2011 2316
1,2-Dichlorobenzene	ND		1	0.50	ug/L	12/23/2011 2316
Dichlorodifluoromethane	ND		1	0.50	ug/L	12/23/2011 2316
1,2-Dichloroethane	ND		1	0.50	ug/L	12/23/2011 2316
1,1-Dichloroethane	ND		1	0.50	ug/L	12/23/2011 2316
trans-1,2-Dichloroethene	ND		1	0.50	ug/L	12/23/2011 2316
1,1-Dichloroethene	ND		1	0.50	ug/L	12/23/2011 2316
cis-1,2-Dichloroethene	ND		1	0.50	ug/L	12/23/2011 2316
1,2-Dichloropropane	ND		1	0.50	ug/L	12/23/2011 2316
trans-1,3-Dichloropropene	ND		1	0.50	ug/L	12/23/2011 2316
cis-1,3-Dichloropropene	ND		1	0.50	ug/L	12/23/2011 2316
Ethylbenzene	ND		1	0.50	ug/L	12/23/2011 2316
2-Hexanone	ND		1	10	ug/L	12/23/2011 2316
Isopropylbenzene	ND		1	0.50	ug/L	12/23/2011 2316
Methyl acetate	ND		1	1.0	ug/L	12/23/2011 2316
Methyl tertiary butyl ether (MTBE)	ND		1	0.50	ug/L	12/23/2011 2316
4-Methyl-2-pentanone	ND		1	10	ug/L	12/23/2011 2316
Methylcyclohexane	ND		1	5.0	ug/L	12/23/2011 2316
Methylene chloride	ND		1	0.50	ug/L	12/23/2011 2316
Styrene	ND		1	0.50	ug/L	12/23/2011 2316
1,1,2,2-Tetrachloroethane	ND		1	0.50	ug/L	12/23/2011 2316
Tetrachloroethene	ND		1	0.50	ug/L	12/23/2011 2316
Toluene	ND		1	0.50	ug/L	12/23/2011 2316
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		1	0.50	ug/L	12/23/2011 2316
1,2,4-Trichlorobenzene	ND		1	0.50	ug/L	12/23/2011 2316
1,1,2-Trichloroethane	ND		1	0.50	ug/L	12/23/2011 2316
1,1,1-Trichloroethane	ND		1	0.50	ug/L	12/23/2011 2316

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 - MB

Sample ID: MQ74440-001

Matrix: Aqueous

Batch: 74440

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Trichloroethene	ND		1	0.50	ug/L	12/23/2011 2316
Trichlorofluoromethane	ND		1	0.50	ug/L	12/23/2011 2316
Vinyl chloride	ND		1	0.50	ug/L	12/23/2011 2316
Xylenes (total)	ND		1	0.50	ug/L	12/23/2011 2316
Surrogate	Q	% Rec	Acceptance Limit			
Bromofluorobenzene		96	70-130			
1,2-Dichloroethane-d4		91	70-130			
Toluene-d8		101	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 - LCS

Sample ID: MQ74440-002

Matrix: Aqueous

Batch: 74440

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	100	79		1	79	46-153	12/23/2011 2152
Benzene	50	53		1	106	70-130	12/23/2011 2152
Bromodichloromethane	50	48		1	96	70-130	12/23/2011 2152
Bromoform	50	45		1	90	70-130	12/23/2011 2152
Bromomethane (Methyl bromide)	50	54		1	109	60-140	12/23/2011 2152
2-Butanone (MEK)	100	98		1	98	60-140	12/23/2011 2152
Carbon disulfide	50	58		1	116	60-140	12/23/2011 2152
Carbon tetrachloride	50	53		1	107	70-130	12/23/2011 2152
Chlorobenzene	50	52		1	103	70-130	12/23/2011 2152
Chloroethane	50	50		1	100	42-163	12/23/2011 2152
Chloroform	50	52		1	103	70-130	12/23/2011 2152
Chloromethane (Methyl chloride)	50	46		1	91	20-158	12/23/2011 2152
Cyclohexane	50	48		1	96	70-130	12/23/2011 2152
1,2-Dibromo-3-chloropropane (DBCP)	50	41		1	83	70-130	12/23/2011 2152
Dibromochloromethane	50	47		1	95	70-130	12/23/2011 2152
1,2-Dibromoethane (EDB)	50	46		1	93	70-130	12/23/2011 2152
1,4-Dichlorobenzene	50	51		1	102	70-130	12/23/2011 2152
1,3-Dichlorobenzene	50	52		1	105	70-130	12/23/2011 2152
1,2-Dichlorobenzene	50	53		1	106	70-130	12/23/2011 2152
Dichlorodifluoromethane	50	49		1	99	60-140	12/23/2011 2152
1,2-Dichloroethane	50	46		1	91	70-130	12/23/2011 2152
1,1-Dichloroethane	50	51		1	101	70-130	12/23/2011 2152
trans-1,2-Dichloroethene	50	54		1	108	70-130	12/23/2011 2152
1,1-Dichloroethene	50	54		1	108	70-130	12/23/2011 2152
cis-1,2-Dichloroethene	50	55		1	109	70-130	12/23/2011 2152
1,2-Dichloropropane	50	53		1	106	70-130	12/23/2011 2152
trans-1,3-Dichloropropene	50	43		1	87	70-130	12/23/2011 2152
cis-1,3-Dichloropropene	50	47		1	94	70-130	12/23/2011 2152
Ethylbenzene	50	54		1	109	70-130	12/23/2011 2152
2-Hexanone	100	84		1	84	60-140	12/23/2011 2152
Isopropylbenzene	50	50		1	101	70-130	12/23/2011 2152
Methyl acetate	50	41		1	83	15-128	12/23/2011 2152
Methyl tertiary butyl ether (MTBE)	50	47		1	94	70-130	12/23/2011 2152
4-Methyl-2-pentanone	100	87		1	87	60-140	12/23/2011 2152
Methylcyclohexane	50	58		1	115	70-130	12/23/2011 2152
Methylene chloride	50	51		1	102	70-130	12/23/2011 2152
Styrene	50	51		1	103	70-130	12/23/2011 2152
1,1,2,2-Tetrachloroethane	50	50		1	100	70-130	12/23/2011 2152
Tetrachloroethene	50	53		1	106	70-130	12/23/2011 2152
Toluene	50	53		1	106	70-130	12/23/2011 2152
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	62		1	125	70-130	12/23/2011 2152
1,2,4-Trichlorobenzene	50	51		1	101	70-130	12/23/2011 2152
1,1,2-Trichloroethane	50	49		1	98	70-130	12/23/2011 2152
1,1,1-Trichloroethane	50	52		1	103	70-130	12/23/2011 2152

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: MQ74440-002

Matrix: Aqueous

Batch: 74440

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Trichloroethene	50	55		1	110	70-130	12/23/2011 2152
Trichlorofluoromethane	50	50		1	100	60-140	12/23/2011 2152
Vinyl chloride	50	51		1	101	60-140	12/23/2011 2152
Xylenes (total)	100	110		1	107	70-130	12/23/2011 2152
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		100	70-130				
1,2-Dichloroethane-d4		94	70-130				
Toluene-d8		105	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: MQ74440-003

Matrix: Aqueous

Batch: 74440

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	87		1	87	8.8	46-153	20	12/23/2011 2213
Benzene	50	53		1	105	0.59	70-130	20	12/23/2011 2213
Bromodichloromethane	50	47		1	95	0.99	70-130	20	12/23/2011 2213
Bromoform	50	44		1	88	2.0	70-130	20	12/23/2011 2213
Bromomethane (Methyl bromide)	50	52		1	104	4.8	60-140	20	12/23/2011 2213
2-Butanone (MEK)	100	99		1	99	1.6	60-140	20	12/23/2011 2213
Carbon disulfide	50	57		1	114	2.1	60-140	20	12/23/2011 2213
Carbon tetrachloride	50	52		1	105	1.8	70-130	20	12/23/2011 2213
Chlorobenzene	50	52		1	103	0.12	70-130	20	12/23/2011 2213
Chloroethane	50	49		1	97	2.8	42-163	20	12/23/2011 2213
Chloroform	50	51		1	102	1.4	70-130	20	12/23/2011 2213
Chloromethane (Methyl chloride)	50	44		1	89	3.0	20-158	20	12/23/2011 2213
Cyclohexane	50	48		1	96	0.62	70-130	20	12/23/2011 2213
1,2-Dibromo-3-chloropropane (DBCP)	50	42		1	83	0.74	70-130	20	12/23/2011 2213
Dibromochloromethane	50	47		1	94	1.1	70-130	20	12/23/2011 2213
1,2-Dibromoethane (EDB)	50	46		1	92	0.90	70-130	20	12/23/2011 2213
1,4-Dichlorobenzene	50	51		1	102	0.59	70-130	20	12/23/2011 2213
1,3-Dichlorobenzene	50	53		1	107	1.8	70-130	20	12/23/2011 2213
1,2-Dichlorobenzene	50	53		1	106	0.60	70-130	20	12/23/2011 2213
Dichlorodifluoromethane	50	49		1	98	0.38	60-140	20	12/23/2011 2213
1,2-Dichloroethane	50	45		1	90	2.1	70-130	20	12/23/2011 2213
1,1-Dichloroethane	50	51		1	103	1.5	70-130	20	12/23/2011 2213
trans-1,2-Dichloroethene	50	53		1	106	1.8	70-130	20	12/23/2011 2213
1,1-Dichloroethene	50	53		1	107	1.2	70-130	20	12/23/2011 2213
cis-1,2-Dichloroethene	50	54		1	108	0.81	70-130	20	12/23/2011 2213
1,2-Dichloropropane	50	52		1	105	1.1	70-130	20	12/23/2011 2213
trans-1,3-Dichloropropene	50	42		1	84	3.2	70-130	20	12/23/2011 2213
cis-1,3-Dichloropropene	50	46		1	91	2.8	70-130	20	12/23/2011 2213
Ethylbenzene	50	55		1	109	0.58	70-130	20	12/23/2011 2213
2-Hexanone	100	85		1	85	1.2	60-140	20	12/23/2011 2213
Isopropylbenzene	50	51		1	102	1.6	70-130	20	12/23/2011 2213
Methyl acetate	50	43		1	86	4.3	15-128	20	12/23/2011 2213
Methyl tertiary butyl ether (MTBE)	50	47		1	94	0.86	70-130	20	12/23/2011 2213
4-Methyl-2-pentanone	100	88		1	88	0.47	60-140	20	12/23/2011 2213
Methylcyclohexane	50	59		1	118	2.4	70-130	20	12/23/2011 2213
Methylene chloride	50	51		1	102	0.34	70-130	20	12/23/2011 2213
Styrene	50	52		1	104	1.6	70-130	20	12/23/2011 2213
1,1,2,2-Tetrachloroethane	50	50		1	100	0.50	70-130	20	12/23/2011 2213
Tetrachloroethene	50	54		1	107	0.78	70-130	20	12/23/2011 2213
Toluene	50	53		1	106	0.21	70-130	20	12/23/2011 2213
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	62		1	123	1.3	70-130	20	12/23/2011 2213
1,2,4-Trichlorobenzene	50	51		1	102	0.22	70-130	20	12/23/2011 2213
1,1,2-Trichloroethane	50	49		1	98	0.39	70-130	20	12/23/2011 2213
1,1,1-Trichloroethane	50	51		1	101	1.9	70-130	20	12/23/2011 2213

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: MQ74440-003

Matrix: Aqueous

Batch: 74440

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	55		1	109	0.77	70-130	20	12/23/2011 2213
Trichlorofluoromethane	50	49		1	98	2.2	60-140	20	12/23/2011 2213
Vinyl chloride	50	49		1	98	2.9	60-140	20	12/23/2011 2213
Xylenes (total)	100	110		1	107	0.91	70-130	20	12/23/2011 2213
Surrogate	Q	% Rec	Acceptance Limit						
Bromofluorobenzene		98	70-130						
1,2-Dichloroethane-d4		92	70-130						
Toluene-d8		103	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 (SIM with isotope dilution) - MB

Sample ID: MQ74608-001

Matrix: Aqueous

Batch: 74608

Prep Method: 5030B

Analytical Method: 8260B (SIM iso.)

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
1,4-Dioxane	ND		1	3.0	ug/L	12/28/2011 2315
Surrogate	Q	% Rec	Acceptance Limit			
1,2-Dichloroethane-d4		82	40-170			

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 (SIM with isotope dilution) - LCS

Sample ID: MQ74608-002

Matrix: Aqueous

Batch: 74608

Prep Method: 5030B

Analytical Method: 8260B (SIM iso.)

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,4-Dioxane	50	53		1	105	43-173	12/28/2011 2140
Surrogate	Q	% Rec				Acceptance Limit	
1,2-Dichloroethane-d4		96				40-170	

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 (SIM with isotope dilution) - LCSD

Sample ID: MQ74608-003

Matrix: Aqueous

Batch: 74608

Prep Method: 5030B

Analytical Method: 8260B (SIM iso.)

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
1,4-Dioxane	50	46		1	92	14	43-173	20	12/28/2011 2204
Surrogate	Q	% Rec	Acceptance Limit						
1,2-Dichloroethane-d4		88	40-170						

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.

Shealy Environmental Services, Inc.
 Document Number: F-AD-016
 Revision Number: 9

Page 1 of 1
 Replaces Date: 05/06/11
 Effective Date: 10/11/11

Sample Receipt Checklist (SRC)

Client: NC PEAR - DWM Cooler Inspected by/date: MS 11/2/11 Lot #: M-15014

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 checked="" type="checkbox"/>	No <input type="checkbox"/>	1. Were custody seals present on the cooler?
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	2. If custody seals were present, were they intact and unbroken?
Cooler ID/temperature upon receipt <u>2.4</u> °C <u>1</u> °C <u>1</u> °C <u>1</u> °C		
Method: <input type="checkbox"/> Temperature Blank <input checked="" type="checkbox"/> Against Bottles		
Method of coolant: <input checked="" type="checkbox"/> Wet Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> Dry Ice <input type="checkbox"/> None		
If response is No (or Yes for 14, 15, 16), an explanation/resolution must be provided.		
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 type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" 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 type="checkbox"/>	NA <input checked="" 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?		
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
7. Was collection date & time listed?		
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
8. Were tests to be performed listed on the COC?		
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
9. Did all samples arrive in the proper containers for each test?		
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
10. Did all container label information (ID, date, time) agree with COC?		
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
11. Did all containers arrive in good condition (unbroken, lids on, etc.)?		
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
12. Was adequate sample volume available?		
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
13. Were all samples received within ½ the holding time or 48 hours, whichever comes first?		
Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
14. Were any samples containers missing?		
Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
15. Were there any excess samples not listed on COC?		
Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
16. 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"/>
17. 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"/>
18. 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"/>
19. Were all applicable NH3/TKN/cyanide/phenol/BNA/pest/PCB/herb (<0.2mg/L) samples free of residual chlorine?		
Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	NA <input type="checkbox"/>
20. Were collection temperatures documented on the COC for NC samples?		
Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	NA <input checked="" type="checkbox"/>
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 <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
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 ₂ SO ₄ , HNO ₃ , HCl, NaOH) with the SR # (number)		
Sample(s) <u>~001 (2)</u> were received with bubbles >6 mm in diameter.		
Sample(s) _____ were received with TRC >0.2 mg/L for NH3/TKN/cyanide/BNA/pest/PCB/herb.		

Corrective Action taken, if necessary:

Was client notified: Yes No

Did client respond: Yes No

SESI employee: _____

Date of response: _____

Comments: _____

December 6, 2011

MEMORANDUM

TO: Dave Lilley, Industrial Hygiene Consultant
NC Division of Waste Management, Superfund Section

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

RE: Health Risk Evaluation Request
Nello-Teer
Durham, Durham County
NONCD 000 2873

Please find attached a copy of the laboratory analytical results for two water supply well samples. These samples were collected from water supply wells located at 4911 Denfield St (NT-C) and 1006 Communication Dr (NT-F). These samples were collected on November 15, 2011. Because this sample was collected from water supply wells, 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	Units	Concentration	MCL	2L
NT-C	1,4 Dioxane	ug/L	7.4	---	6
NT-F	Methyl tertiary butyl ether (MTBE)	ug/L	0.68	---	20

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

Attachment

January 3, 2012

MEMORANDUM

TO: Hanna Assefa, Industrial Hygienist
Superfund Section, IHSB

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

RE: Health Risk Evaluation Request
Nello-Teer Site
Durham, Durham County
NONCD 0002873

Please find attached a copy of the laboratory analytical results for one water supply well sample. This sample was collected from a water supply well located at 4911 Denfield St. This sample was collected on December 14, 2011. 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 (µg/L)	US EPA MCL (µg/L)	NC 2L (µg/L)
NT-C2	Chloromethane	0.61	n/a	3

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

Attachment

January 3, 2012

MEMORANDUM

TO: Vince Antrilli
Inactive Hazardous Sites Branch
Superfund Section

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

RE: Health Risk Evaluation
Nello-Teer Site
4911 Denfield St.
Durham, Durham County
NONCD 0002873

A water sample was collected from the subject well on December 14, 2011. Chloromethane was detected at a concentration 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 North Carolina Groundwater Quality Standard (NC 2L).

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 #	Contaminant	Concentrations ug/l	USEPA MCL ug/l	15A NCAC 2L ug/l
ML15014-003	Chloromethane	0.61	*	3

*Not Available
ug/l = Micrograms of contaminant per liter of water.



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

Beverly Eaves Perdue
Governor

Dexter R. Matthews
Director

Dee Freeman
Secretary

December 6, 2011

TO: Vince Antrilli
NC UST Section

FROM: David Lilley 
Environmental Toxicologist
NC Division of Waste Management

RE: Health Risk Evaluation
NONCD 000 2873
Nello-Teer Well Sampling Results
4911 Denfield St
Durham, NC

During this sampling event, one contaminant was detected in the well water. The contaminant, 1,4-dioxane, was detected at a concentration exceeding the applicable water standard. 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 non-ingestive uses, such as showering, bathing, washing dishes, flushing toilets, and hand washing. The chart below compares the detected contaminant concentration with the applicable standards:

Sample ID	Contaminant	Concentration (ug/l)*	MCL (ug/l)	2L (ug/l)
MK16009-002	1,4-Dioxane	7.4		3

Shaded boxes indicate a standard has been exceeded.

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

RECOMMENDATION: The 1,4-dioxane concentration in this well exceeds 2L standard, therefore, this water is not recommended for drinking or cooking at this time. No restrictions are recommended for using the

water for other non-ingestive uses, such as showering, bathing, washing dishes, flushing toilets, and hand washing.



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

Beverly Eaves Perdue
Governor

Dexter R. Matthews
Director

December 6, 2011

TO: Vince Antrilli

1646 Mail Service Center, Raleigh, North Carolina 27699-1646
Phone: 919-707-8200 \ Internet: <http://portal.ncdenr.org/web/wm/>

An Equal Opportunity \ Affirmative Action Employer

Dee Freeman
Secretary

One
North
Naturally

NC UST Section

FROM:

David Lilley 
Environmental Toxicologist
NC Division of Waste Management

RE:

Health Risk Evaluation
NONCD 000 2873
Nello-Teer Well Sampling Results
1006 Communications Dr
Durham, 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 (ug/l)*	MCL (ug/l)	2L (ug/l)
MK16009-003	Methyl tertiary butyl ether	0.68		20

* The abbreviation ug/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.



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

Beverly Eaves Perdue
Governor

Dexter R. Matthews
Director

Dee Freeman
Secretary

January 3, 2012

Julius & Cheri Bartell
4911 Denfield St
Durham, NC 27704

RE: Water Supply Well Sampling Results – Nello Teer (NONCD0002873)
4911 Denfield St – Well ID NT-C1 & C2
Durham, NC 27704

Dear Mr. or Ms. Bartell:

Please find attached the Sample Analytical Results for a water sample collected from your well located at the address referenced above, on Dec 14, 2011. 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 VOCs 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.

In accordance with the residential property disclosure act, it is your responsibility to disclose this contamination as part of the property sale. You should also notify all current and future tenants of your property of the contamination detected in your well.

If you have any questions regarding the Health Risk Evaluation, please contact Hanna Assefa at (919) 508-8445 or me at (919) 508-8573.

Sincerely,

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

Enclosure

CC: Durham County Health Department



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

Beverly Eaves Perdue
Governor

Dexter R. Matthews
Director

Dee Freeman
Secretary

December 6, 2011

Donald Ward
1202 Crystal Forest Dr
Semora, NC 27343

RE: Water Supply Well Sampling Results – Nello Teer (NONCD0002873)
1006 Communications Dr – Well ID NT-F
Durham, NC 27704

Dear Mr. Ward:

Please find attached the Sample Analytical Results for a water sample collected from your well located at the address referenced above, on **Nov 15, 2011**. 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 VOCs 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.

In accordance with the residential property disclosure act, it is your responsibility to disclose this contamination as part of the property sale. You should also notify all current and future tenants of your property of the contamination detected in your well.

If you have any questions regarding the Health Risk Evaluation, please contact Hanna Assefa at (919) 508-8445 or me at (919) 508-8573.

Sincerely,

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

Enclosure

CC: **Durham** County Health Department



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

Beverly Eaves Perdue
Governor

Dexter R. Matthews
Director

Dee Freeman
Secretary

December 6, 2011

Julius & Cheri Bartell
4911 Denfield St
Durham, NC 27704

RE: Water Supply Well Sampling Results – Nello Teer (NONCD0002873)
4911 Denfield St – Well ID NT-C
Durham, NC 27704

Dear Mr. or Ms. Bartell:

Please find attached the Sample Analytical Results for a water sample collected from your well located at the address referenced above, on **Nov 15, 2011**. 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 VOCs 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.

In accordance with the residential property disclosure act, it is your responsibility to disclose this contamination as part of the property sale. You should also notify all current and future tenants of your property of the contamination detected in your well.

If you have any questions regarding the Health Risk Evaluation, please contact Hanna Assefa at (919) 508-8445 or me at (919) 508-8573.

Sincerely,

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

Enclosure

CC: **Durham** County Health Department



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

Beverly Eaves Perdue
Governor

Dexter R. Matthews
Director

Dee Freeman
Secretary

January 3, 2012

Harvey Harris
125 Chattelton Ct.
Durham, NC 27712

RE: Water Supply Well Sampling Results – Nello-Teer **Site** (NONCD0002873)
1003 Communication Dr – Well ID NT-E
Durham, NC 27704

Dear **Mr. Harris**:

Please find attached the Sample Analytical Results for a water sample collected from your well located at the address referenced above, on **December 14, 2011**. The sample was submitted for laboratory analyses for Volatile Organic Compounds (VOCs). There were no VOCs detected in your water supply well sample. As such, the use of your well water is considered safe and should not result in any adverse health effects.

If you have any questions or if I can be of any further assistance, please contact me at (919) 508-8573.

Sincerely,

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

Enclosure

CC: Durham County Health Department