

**Groundwater Sampling Report
Spring 2007**

**Bedford Village Wells
Hunting Ridge Mall
Site 3-60-009**

**Work Assignment No.
D004445-12**

Prepared for:



**SUPERFUND STANDBY PROGRAM
New York State
Department of Environmental Conservation
625 Broadway
Albany, New York 12233**

Prepared by:

**Earth Tech Northeast, Inc.
40 British American Boulevard
Latham, New York**

May 14, 2007

Mr. George Momberger
NYSDEC Division of Environmental Remediation
Remedial Bureau E, 12th Floor
625 Broadway
Albany, New York 12233-7017

Re: Bedford Village Wells – Hunting Ridge Mall - Site #3-60-009
Quarterly Sampling Report – Spring 2007

Dear Mr. Momberger:

The following is a quarterly letter report for the second of eight groundwater sampling events to be conducted at the Bedford Village Wells – Hunting Ridge Mall Site, under New York State Department of Environmental Conservation (NYSDEC) Work Assignment # D004445-12. The sampling was conducted by Earth Tech's subcontractor, GeoLogic NY, Inc (GeoLogic), Homer, New York. All sampling was conducted in accordance with GeoLogic's Health and Safety Plan, which was reviewed by Earth Tech. Water samples were submitted to Chemtech, Inc. under routine chain-of-custody protocol.

This report presents the field observation logs, chain-of-custody records and analytical summary table for the groundwater sampling event that took place on March 21st through March 23rd 2007. A total of 14 wells were sampled during the event. Monitoring well MW-8M could not be sampled due to inaccessibility from snow and ice piled on the well head, as noted in the observation log in Attachment 1. This well will be sampled during the next sampling event tentatively scheduled for June 2007.

Table 1 summarizes the analytical data for groundwater samples collected during the current sampling event. This table is cumulative, in that it includes the May 2005, November 2005 and November 2006 groundwater analytical data. Only detected compounds are presented. A site map is attached showing the location of the site monitoring wells. Attachment 1 presents GeoLogic's field observation logs and the chain-of-custody records. The laboratory data sheets for the VOC analyses are not included as they had been forwarded to the NYSDEC at a prior date.

A review of the March 2007 analytical data indicates little to no change in the concentrations of VOCs in most of the monitoring wells at the site. The contaminant levels in MW-3M decreased slightly in the sampling event. This is the only sampled monitoring well that exceeded groundwater standards for any compounds during the March 2007 sampling event.

The next quarterly groundwater sampling event is scheduled for mid-June 2007.

Please feel free to contact me at (518) 951-2353 if you have any questions or comments regarding this report.



A **tyco** International Ltd. Company

Sincerely,
Earth Tech Northeast

A handwritten signature in blue ink that reads "Lori A. Hoose".

Lori A. Hoose
Project Geologist

Attachments

Cc: Carl Hoffman
Stephen Choiniere
Stefan Goreau

Table 1
Groundwater Analytical Results
Bedford Village Wells
Hunting Ridge Mall Site
Bedford Village, New York
Volatile Organic Compounds
Date Sampled: March 21, 22 and 23, 2007

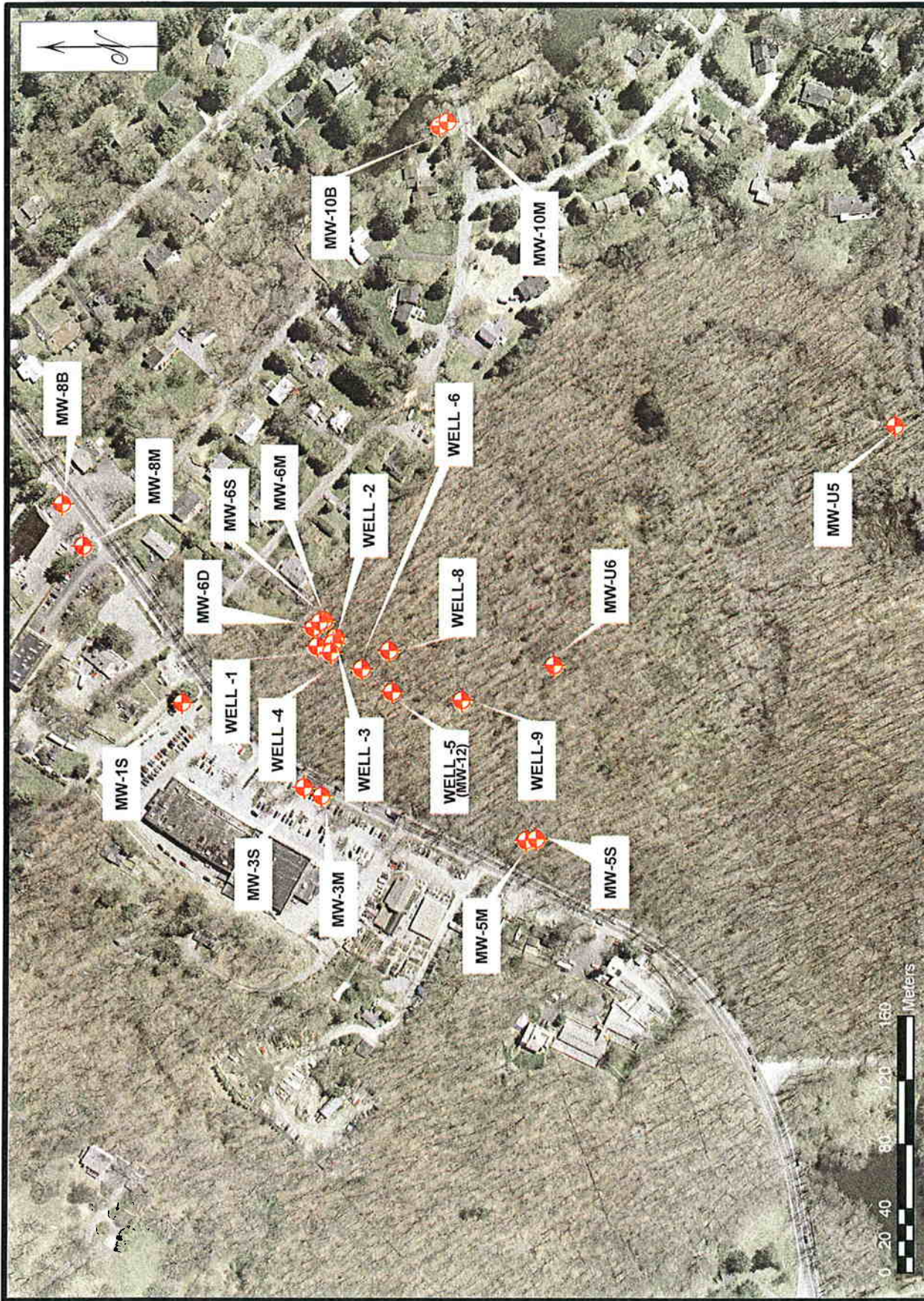
		Analyte	Methyl tert-butyl Ether	cis-1,2-dichloroethene	Tetrachloroethene	Methylene Chloride	Trichloroethene	Acetone	1,2-Dichlorobenzene
AWQS+GV*		10 (GV)	5	5	5	5	60 (GV)	3	
WELL - 1	May-05	U	U	2.8J	U	U	U	U	
	Nov-05	U	U	1.9J	U	U	U	U	
WELL - 2	May-05	U	3.2J	4.7J	U	U	U	U	
	Nov-05	U	U	3.6J	U	U	U	U	
WELL - 3	May-05	U	2.3J	4.2J	U	U	U	U	
	Nov-05	U	U	3.0J	U	U	U	U	
WELL - 4	May-05	U	U	4.3J	U	U	U	U	
	Nov-05	U	U	2.2J	U	U	U	U	
WELL - 5	May-05	U	U	2.2J	U	U	U	U	
	Nov-05	U	U	1.8J	U	U	U	U	
	Nov-06	U	U	2.4	U	U	U	U	
	Mar-07	U	U	1.8	U	U	U	U	
WELL - 6	May-05	2.1J	U	1.6J	U	U	U	U	
	Nov-05	U	3.4J	6.2	U	1.8J	U	U	
WELL - 8	May-05	U	U	U	U	U	U	U	
	Nov-05	U	U	0.84J	U	U	U	U	
WELL - 9	May-05	U	U	U	U	U	U	U	
	Nov-05	U	U	U	U	U	U	U	
	Nov-06	U	U	U	U	U	U	U	
	Mar-07	U	U	U	U	U	U	U	
MW-1S^	May-05	4.1	U	U	1.2	U	U	U	
	Nov-05	7.8	U	U	0.6JB	U	U	U	
	Nov-06	3.1	U	U	U	U	U	U	
	Mar-07	2.4	U	U	0.3 JB	U	U	U	
MW - 3S	May-05	U	U	0.98J	U	U	U	U	
	Nov-05	U	U	0.79J	U	U	U	U	
	Nov-06	U	U	2.6	U	U	U	U	
	Mar-07	U	U	1.2	U	U	U	U	
MW-3M	May-05	U	8.5	45	U	U	U	U	
	Nov-05	U	34	22	U	5.4	U	U	
	Nov-06 **	0.3 J	59 D	420 D	U	32	U	U	
	Mar-07 ***	U	53 D	240 D	U	27	U	U	
MW-5M	May-05	NA	NA	NA	NA	NA	NA	NA	
	Nov-05	U	U	U	U	U	U	U	
	Nov-06	U	U	U	U	U	U	U	
	Mar-07	U	U	U	0.3 JB	U	U	U	
MW-5S	May-05	NA	NA	NA	NA	NA	NA	NA	
	Nov-05	U	U	U	U	U	U	U	
	Nov-06	U	U	U	U	U	U	U	
	Mar-07	U	U	U	U	U	U	U	
MW-6S^	May-05	0.3J	0.6J	4	1.1	0.5J	U	U	
	Nov-05	0.2J	U	2.3	U	0.5JB	U	U	
	Nov-06	U	U	1.7	U	U	U	U	
	Mar-07	U	U	1.7	U	U	U	U	
MW-6M^	May-05	0.3J	0.6J	2.9	1J	0.4J	U	U	
	Nov-05	U	U	2.7	0.5JB	0.3J	U	U	
	Nov-06	U	U	2.2	U	U	U	U	
	Mar-07	U	U	1.9	0.3 JB	U	U	U	
MW-6D	May-05	5.5	U	U	U	U	U	U	
	Nov-05	6.3	U	U	U	U	U	U	
	Nov-06	1.2	U	U	U	U	U	U	
	Mar-07	1	U	U	U	U	U	U	

Table 1
Groundwater Analytical Results
Bedford Village Wells
Hunting Ridge Mall Site
Bedford Village, New York
Volatile Organic Compounds
Date Sampled: March 21, 22 and 23, 2007

		Analyte	Methyl tert-butyl Ether	cis-1,2-dichloroethene	Tetrachloroethene	Methylene Chloride	Trichloroethene	Acetone	1,2-Dichlorobenzene
AWQS+GV*		10 (GV)	5	5	5	5	60 (GV)	3	
MW-8M	May-05	NA	NA	NA	NA	NA	NA	NA	
	Nov-05	1.1J	U	U	U	U	24J	U	
	Nov-06	1.2	U	U	U	U	U	2.1	
MW-8B	May-05	NA	NA	NA	NA	NA	NA	NA	
	Nov-05	1.1J	U	U	U	U	U	U	
	Nov-06	0.9 J	U	0.4 J	U	U	U	1.9	
	Mar-07	0.4 J	U	U	1.6 B	U	U	0.9	
MW-10M	Nov-06	U	U	U	U	U	U	U	
	Mar-07	U	U	U	1.6 B	U	U	U	
MW-10B	Nov-06	U	U	U	U	U	U	U	
	Mar-07	U	U	U	U	U	U	U	
MW-U5	May-05	NA	NA	NA	NA	NA	NA	NA	
	Nov-05	U	U	U	U	U	U	1.4J	
MW-U6	May-05	NA	NA	NA	NA	NA	NA	NA	
	Nov-05	U	U	U	U	U	U	U	
	Nov-06	U	U	U	U	U	U	U	
	Mar-07	U	U	U	U	U	U	U	

All data presented in micrograms per Liter (ug/L).
All Volatile Organic Analyses were conducted by US EPA Method 624 unless otherwise noted.
^ Denotes sample analyzed by US EPA Method 524.2

* New York State Ambient Water Quality Standards (TOGs 1.1.1) GV - guidance value.
** Additional compounds detected in this sample were 2.3 ug/L vinyl Chloride, 0.5 J trans-1,2-Dichloroethene.
*** Additional compound detected in the sample were 1.8 ug/L vinyl chloride, 0.6 ug/L trans-1,2-Dichloroethene
U - Compound not detected at or above the instrument detection limit (IDL).
J - Estimated concentration above the IDL but less than the contract required detection limits (CRDL).
D - Results from a subsequent dilution of the original sample due to original sample results being outside the linear range.
NA indicates 1) no standard or guidance value exists for the compound, or 2) sample was not analyzed for indicated compound.
BOLD font in shaded cell indicates exceedances of AWQS+GV.



Bedford Village Wells - Hunting Ridge Mall, NYSDEC Site 3-60-009
Bedford, New York 10506

Legend
Well Locations

Datum: NAD 83 (Zone 18), Distance in meters

Attachment 1

Field Observation Sheets

FIELD OBSERVATION LOG - GROUNDWATER SAMPLING RECORD

Bedford Village Wells - Huntington Ridge Mall - Work Assignment #D004445-12 Site # 360009

Sampler: J. SANDBERG

Date(s): 3/21 - 3/23/07

Weather: 40 - 50°F

Arrival Time 12:30 PM

Departure Time 11:15 AM

3/21/07

3/23/07

	MW-1S	MW-3M
Well Depth	20'	75'
Well Diameter	2"	2"
Well Construction (pvc/stainless)	PVC	PVC
Well Condition	POOR	FAIR
Depth to Water	10.30'	15.13'
Volume to Purge	~ 5 gal	~ 29 gal
Volume Purged	~ 5 gal	~ 30 gal
Sampling Depth to Water	~ 12.00'	~ 18.00'
Color	clear	clear
Odor	none	none
Temperature	54.8°F	56.8°F
Conductivity	885 μ S	503 μ S
pH	7.6	7.9
Turbidity	51.84 NTU	0.58 NTU
Date & Time	3/23/07 8:50 AM	3/23/07 10:10 AM
Purging Method	PERISTALTIC	PUMP

FIELD OBSERVATION LOG - GROUNDWATER SAMPLING RECORD

Bedford Village Wells - Huntington Ridge Mall - Work Assignment #D004445-12 Site # 360009

Sampler: J. SANDBERG

Date(s): 3/21-3/23/07

Weather: 40-50°F

Arrival Time 12:30 PM

Departure Time 11:15 AM

3/21/07

3/23/07

	MW-3S	MW-6M
Well Depth	18.6'	60.5'
Well Diameter	2"	2"
Well Construction (pvc/stainless)	PVC	PVC
Well Condition	POOR	FAIR
Depth to Water	13.73'	30.50'
Volume to Purge	~ 2.5 gal	~ 15 gal
Volume Purged	~ 3.0 gal	~ 15 gal
Sampling Depth to Water	~ 15.00'	~ 35.00'
Color	clear	clear
Odor	none	none
Temperature	53.2°F	51.8°F
Conductivity	1042 μ S	953 μ S
pH	7.4	7.1
Turbidity	29.88	0.51 NTU
Date & Time	3/23/07 9:45 AM	3/22/07 2:00 PM
Purging Method	BAILER	PUMP

FIELD OBSERVATION LOG - GROUNDWATER SAMPLING RECORD

Bedford Village Wells - Huntington Ridge Mall - Work Assignment #D004445-12 Site # 360009

Sampler: J. SANDBERG Date(s): 3/21 - 3/23/07

Weather: 40-50°F Arrival Time 12:30 PM Departure Time 11:15 AM
3/21/07 3/23/07

	MW-6S	MW-6D
Well Depth	44.75'	>131'
Well Diameter	2"	4"
Well Construction (pvc/stainless)	PVC	PVC
Well Condition	FAIR	FAIR
Depth to Water	31.10'	29.20'
Volume to Purge	6.50 gal	>199 gal
Volume Purged	~8 gal	~50 gal
Sampling Depth to Water	~35.00'	~35.00'
Color	clear	clear
Odor	none	none
Temperature	53.2°F	53.8°F
Conductivity	843 μ S	443 μ S
pH	7.1	8.2
Turbidity	1.95 NTU	8.66 NTU
Date & Time	3/22/07 1:30 PM	3/22/07 2:45 PM
Purging Method	PUMP	PUMP

NOTE: RAN OUT
OF BATTERIES

FIELD OBSERVATION LOG - GROUNDWATER SAMPLING RECORD

Bedford Village Wells - Huntington Ridge Mall - Work Assignment #D004445-12 Site # 360009		
Sampler: J. SANDBERG		Date(s): 3/21-3/23/07
Weather: 40-50 °F	Arrival Time 12:30 PM 3/21/07	Departure Time 11:15 AM 3/23/07
	MW-5M	MW-5S
Well Depth	70'	42'
Well Diameter	2"	2"
Well Construction	PVC	PVC
Well Condition	FAIR	FAIR
Depth to Water	27.65'	27.28'
Volume to Purge	~ 21 gal	~ 7.2 gal
Volume Purged	~ 23 gal.	~ 8 gal
Sampling Depth to Water	~ 35.00'	~ 40.00'
Color	clear	Rusty
Odor	none	none
Temperature	51.9° F	51.9° F
Conductivity	646 μ S	605 μ S
pH	7.5	7.6
Turbidity	1.33 NTU	155.0 NTU
Date & Time	3/22/07 10:45 AM	3/22/07 10:30 AM
Purging Method	PUMP	PUMP

FIELD OBSERVATION LOG - GROUNDWATER SAMPLING RECORD

Bedford Village Wells - Huntington Ridge Mall - Work Assignment #D004445-12 Site # 360009		
Sampler:	J. SANDBERG	Date(s): 3/21-3/23/07
Weather:	40 - 50°F	Arrival Time 12:30 PM Departure Time 11:15 AM
	3/21/07	3/23/07
	MW-8B	MW-8M
Well Depth	68'	38'
Well Diameter	4"	2"
Well Construction	PVC	
Well Condition	FAIR	
Depth to Water	9.70'	
Volume to Purge	113 gal	
Volume Purged	~100 gal	
Sampling Depth to Water	~40.00'	
Color	clear	
Odor	none	
Temperature	57.2°F	
Conductivity	1647 μ S	
pH	7.8	
Turbidity	1.19 NTU	
Date & Time	3/21/07 4:30 PM	
Purging Method	PUMP	

NOTE: NOT SAMPLED
DUE TO THICK
SNOW/ICE FROM
PLOWING

FIELD OBSERVATION LOG - GROUNDWATER SAMPLING RECORD

Bedford Village Wells - Huntington Ridge Mall - Work Assignment #D004445-12 Site # 360009		
Sampler: J. SANDBERG		Date(s): 3/21/07 - 3/23/07
Weather: 40-50°F	Arrival Time 12:30 PM	Departure Time 11:15 AM
	3/21/07	3/23/07
	MW-10B	MW-10M
Well Depth	>50'	>50
Well Diameter	4"	2"
Well Construction	PVC	PVC
Well Condition	FAIR	FAIR
Depth to Water	0.8'	1.33'
Volume to Purge	> 95 gal	> 23.5 gal
Volume Purged	~ 50 gal	~ 40 gal
Sampling Depth to Water	~ 35.00'	~ 45.00'
Color	clear	clear
Odor	none	none
Temperature	53.4°F	52.7°F
Conductivity	218 μ S	393 μ S
pH	9.1	7.3
Turbidity	6.29 NTU	1.95 NTU
Date & Time	3/23/07 10:45 AM	3/21/07 1:30 PM
Purging Method	PUMP	PUMP
MS/MSD SAMPLE		

FIELD OBSERVATION LOG - GROUNDWATER SAMPLING RECORD

Bedford Village Wells - Huntington Ridge Mall - Work Assignment #D004445-12 Site # 360009		
Sampler:	J. SANDBERG	Date(s): 3/21-3/23/07
Weather:	40-50°F	Arrival Time 12:30 PM Departure Time 11:15 AM
	3/21/07	3/23/07
	MW-U6	
Well Depth	40'	
Well Diameter	2"	
Well Construction	PVC	
Well Condition	FAIR	
Depth to Water	26.20'	
Volume to Purge	~6.75 gal	
Volume Purged	10 gal	
Sampling Depth to Water	~35.00'	
Color	clear	
Odor	none	
Temperature	51.4°F	
Conductivity	560 µS	
pH	6.9	
Turbidity	9.10 NTU	
Date & Time	3/22/07 11:15 AM	
Purging Method	PUMP	

FIELD OBSERVATION LOG - GROUNDWATER SAMPLING RECORD

Bedford Village Wells - Huntington Ridge Mall - Work Assignment #D004445-12 Site #360009		
Sampler:	J. SANDBERG	Date(s): 3/21 - 3/23/07
Weather:	46 - 50° F	Arrival Time 12:30 PM Departure Time 11:15 AM
	3/21/07	3/23/07
	Well 5 (MW-12)	Well 9
Well Depth	62'	40'
Well Diameter	2"	2"
Well Construction	PVC	PVC
Well Condition	FAIR	FAIR
Depth to Water	30.72'	30.93'
Volume to Purge	~15 gal	~5 gal
Volume Purged	~15 gal	~8 gal
Sampling Depth to Water	~35.00'	~35.00'
Color	clear	cloudy
Odor	none	none
Temperature	52.8° F	52.1° F
Conductivity	661 μ S	545 μ S
pH	8.2	7.8
Turbidity	11.49 NTU	57.69 NTU
Date & Time	3/22/07 9:15 AM	3/22/07 9:45 AM
Purging Method	PUMP	PUMP



284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO.

COC Number

063500

CHAIN OF CUSTODY RECORD

CLIENT INFORMATION		CLIENT PROJECT INFORMATION		CLIENT BILLING INFORMATION	
COMPANY: EARTHTECH	PROJECT NAME: BEDFORD HR MALL	BILL TO:	PO#:		
ADDRESS:	PROJECT NO.: 360009 LOCATION: BEDFORD, NY	ADDRESS:			
CITY: LATHAM STATE: NY ZIP:	PROJECT MANAGER: J. HOOSE	CITY:	STATE:	ZIP:	
ATTENTION: LORE HOOSE	e-mail:	ATTENTION:	PHONE:		
PHONE: (518) 951-2353 FAX: (518) 951-2300	PHONE:	FAX:			
DATA TURNAROUND INFORMATION		DATA DELIVERABLE INFORMATION			
FAX:	DAYS:	☐ RESULTS ONLY ☐ USEPA CLP			
HARD COPY:	DAYS:	☐ RESULTS + QC ☐ New York State ASP "B"			
EDD:	DAYS:	☐ New Jersey REDUCED ☐ New York State ASP "A"			
* TO BE APPROVED BY CHEMTECH STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS		☐ New Jersey CLP ☐ Other			
		☐ EDD FORMAT			
PROJECT IDENTIFICATION		SAMPLE COLLECTION		PRESERVATIVES	
CHEMTECH SAMPLE ID	SAMPLE MATRIX	SAMPLE TYPE	DATE	TIME	COMMENTS
1. MW - 8B	W	X	3/21/07	4:30 PM	3
2. MW - 10B			3/23/07	10:45 AM	3
3. MW - 10M			3/21/07	1:30 PM	3
4. MW - 10M MS					3
5. MW - 10M MSD					3
6. MW - 46			3/22/07	11:15 AM	3
7. TRIP BLANKS			2/13/07	-	3
8. TRIP BLANKS			2/13/07	-	3
9.					
10.					
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY					
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:			
1. J. D. S. J.	3/26/07	1.			
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:			
2.		2.			
RELINQUISHED BY:	DATE/TIME:	RECEIVED FOR LAB BY:			
3.		3.			
Comments: Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant Cooler Temp. _____ MeOH extraction requires an additional 4 oz jar for percent solid. Ice in Cooler?: _____			SHIPMENT COMPLETE: ☐ YES ☐ NO		
Page 2 of 2			SHIPPED VIA: CLIENT: ☐ HAND DELIVERED ☐ OVERNIGHT ☐ PICKED UP ☐ OVERNIGHT		

CHAIN OF CUSTODY RECORD

[illegible]