

**Groundwater Sampling Report
Fall 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**

November 30, 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 – Fall 2007

Dear Mr. Momberger:

This quarterly letter report describes the fourth of six 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 once again conducted by Earth Tech's subcontractor, GeoLogic NY, Inc (GeoLogic), Homer, New York, in accordance with GeoLogic's Health and Safety Plan. Groundwater 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 October 3 and 4, 2007. Fifteen wells were sampled during the event (per NYSDEC request, a greater number of wells were sampled in prior events).

Table 1 summarizes the analytical data for groundwater samples collected during the current and prior sampling events. Only detected compounds are presented. A 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 but will be forwarded to the NYSDEC on request.

A review of the October 2007 analytical data indicates little to no change in the concentrations of VOCs in most of the monitoring wells at the site, with one noted exception. The concentration of methyl-tert butyl ether (MTBE) in monitoring well MW-1S increased by two orders of magnitude in comparison to all past results, from 2.7 ug/L in the July 2007 sample to 110 ug/L in the October 2007 sampling event. This well is located directly southwest of a small gas station. The contaminant levels in MW-3M remain high but consistent with the July 2007 and earlier sampling events. This well and MW-1S are the only sampled monitoring wells that exceeded groundwater standards for any compounds during the October 2007 sampling event.

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

Sincerely,
Earth Tech Northeast

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: October 3 and 4, 2007

		Analyte	Methyl tert-butyl Ether	cis-1,2-dichloroethane	Tetrachloroethane	Methylene Chloride	Trichloroethane	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	
	Jul-07	U	U	1.8	U	U	U	U	
	Oct-07	U	U	2.3	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	
	Jul-07	U	U	U	0.3 J	U	U	U	
	Oct-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	
	Jul-07	2.7/2.7 #	U/U #	U/U #	U/U #	U/U #	U/U #	U/U #	
	Oct-07 **	110 D	U	U	U	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	
	Jul-07	U	U	1.6	U	U	U	U	
	Oct-07	U	U	1.9	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-07	0.3 J	59 D	420 D	U	32	U	U	
	Mar-07	U	53 D	240 D	U	27	U	U	
	Jul-07	U	75 D	360 D	U	34 D	U	U	
	Oct-07	U	81	280 D	U	38	U	U	
MW-5M	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	
	Jul-07	U	U	U	U	U	U	U	
	Oct-07	U	U	U	U	U	U	U	
	Nov-05	U	U	U	U	U	U	U	
MW-5S	Nov-06	U	U	U	U	U	U	U	
	Mar-07	U	U	U	U	U	U	U	
	Jul-07	U	U	U	U	U	U	U	
	Oct-07	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	
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	
	Jul-07	U	U	1.9	U	U	U	U	
	Oct-07	U	U	1.2	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: October 3 and 4, 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-6M	May-05	0.3J	0.6J	2.9	1J	0.4J	U	U	
	Nov-05	U	U	2.7	0.5 JB	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	
	Jul-07	U	U	2.4	U	U	U	U	
	Oct-07	U	U	2.1	U	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	
	Jul-07	U	U	U	U	U	U	U	
	Oct-07	1.1	U	U	U	U	2.6 J	U	
MW-8M	Nov-05	1.1J	U	U	U	U	24J	U	
	Nov-06	1.2	U	U	U	U	U	2.1	
	Jul-07	2.2	U	U	0.4 J	U	U	2.4	
	Oct-07 ***	1.9	U	U	U	U	U	2	
MW-8B	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	
	Jul-07	1.2	U	0.5 J	0.4 J	U	U	1.5	
	Oct-07	1.4	U	0.3 J	U	U	U	2.4	
MW-10M	Nov-06	U	U	U	U	U	U	U	
	Mar-07	U	U	U	1.6 B	U	U	U	
	Jul-07	U	U	U	0.4 J	U	U	U	
	Oct-07	U	U	U	U	U	U	U	
MW-10B	Nov-06	U	U	U	U	U	U	U	
	Mar-07	U	U	U	U	U	U	U	
	Jul-07	U	U	U	U	U	61	U	
	Oct-07	U	U	U	U	U	27	U	
MW-U5	Nov-05	U	U	U	U	U	U	1.4 J	
MW-U6	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	
	Jul-07	U	U	U	U	U	U	U	
	Oct-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 or 524.2.

- duplicate

* New York State Ambient Water Quality Standards (TOGs 1.1.1) GV - guidance value.

** Additional compounds detected in this sample were 0.3 J toluene.

*** Additional compounds detected in the sample were 0.3 J ug/L chloroform, 0.3 J ug/L styrene

U - Compound not detected at or above the instrument detection limit (IDL).

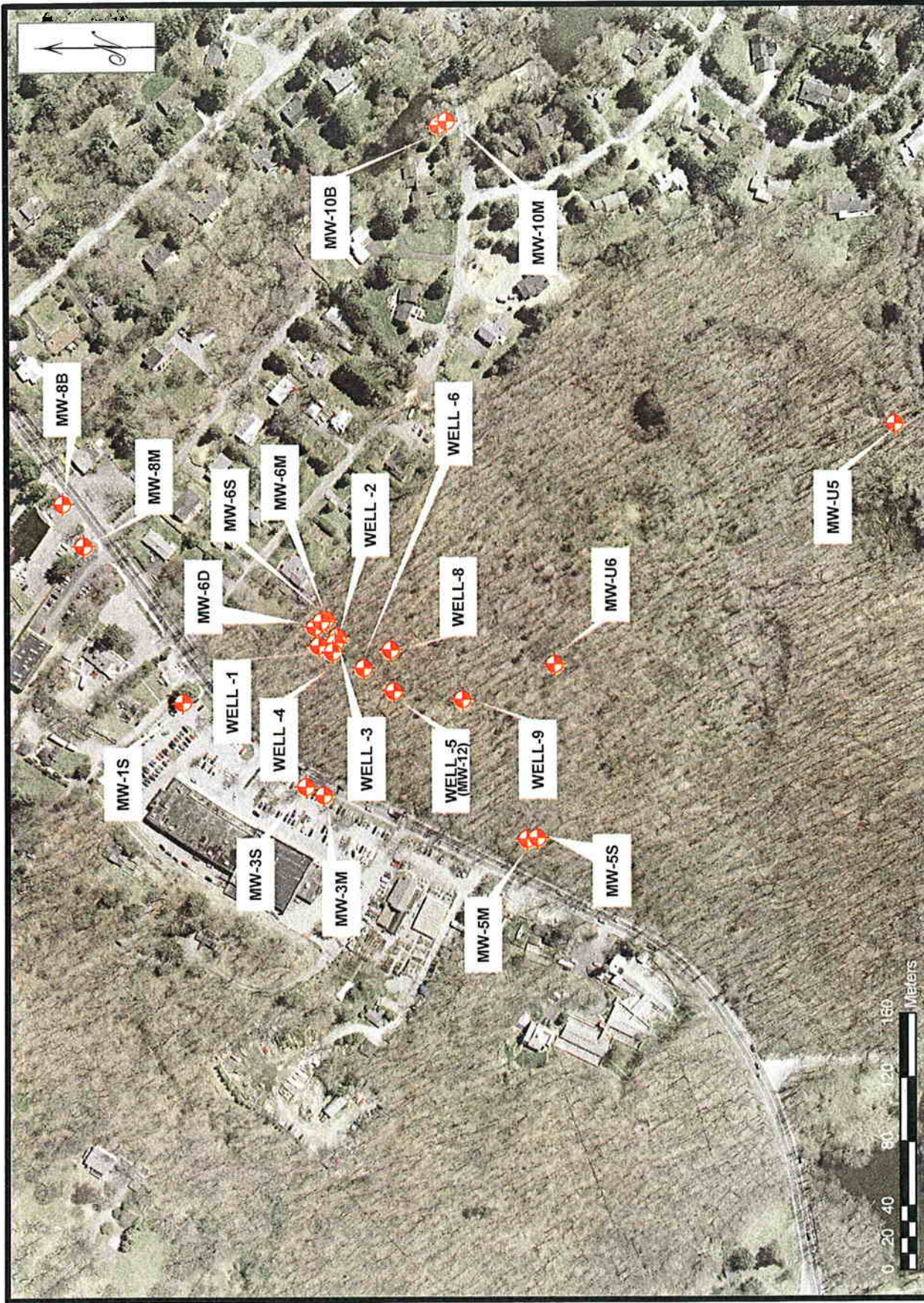
J - Estimated concentration above the IDL but less than the contract required detection limits (CRDL).

B - Analyte found in associated Method Blank

D - Results from a subsequent dilution of the original sample due to original sample results being outside the linear range.

NA indicates 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 LOG - GROUNDWATER SAMPLING RECORD

SITE BEDFORD HUNTINGTON DATE: 10/3/07 SAMPLER(S): JS (J. SANDBERG)
 NAME: RIDGE MALL JW (J. WINKS)

SITE ADDRESS: BEDFORD, NY
 NUMBER: 360009

Weather: cloudy ~ 70-75°F Time of Arrival: 10/3/07 10:40 AM Time of Departure: 10/4/07 10:45 AM

	MW-5M	MW-5S	MW-46	WELL-9	Comments
Well Depth MEASURED	70'	42'	40'	40'	
Well Diameter	2"	2"	2"	2"	
Well Construction PVC Stain Steel	PVC	PVC	PVC	PVC	
Well Condition Good, Fair, Poor	FAIR	FAIR.	FAIR.	FAIR.	
Depth to Water	31.34'	30.94'	29.44'	33.63'	
Volume to Purge	18.6 gal	5.3 gal	5.1 gal	3.1 gal	
Volume Purged	~20 gal	6 gal	~7 gal	~5 gal	
Sampling Depth to Water	~45'	~38'	~38'	~38'	
Color	clear	clear	clear	clear	
Odor	none.	none	none.	none	
Temperature	53.4°F	53.0°F	53.0°F	53.6°F	
Conductivity	534 µS	306 µS	449 µS	645 µS	
pH	6.7	6.7	6.8	6.5	
Turbidity	2.70	2.12	1.61	1.07	
Date & Time	10/3/07 12:00 PM	10/3/07 11:25 AM	10/3/07 1:00 PM	10/3/07 1:20 PM	
Purging Method: Submersible or Peristaltic Pump	sub	sub.	sub.	sub.	
GPS					
Photo's Taken					

1 of 4

FIELD OBSERVATION LOG - GROUNDWATER SAMPLING RECORD

SITE BEDFORD HUNTINGTON DATE: 10/3/07 SAMPLER(S): J. Sandberg
 NAME: RIDGE MALL J. WINKS

SITE NUMBER: 360009 ADDRESS: BEDFORD, NY

Weather: cloudy ~70-75°F Time of Arrival: 10/3/07 10:40 AM Time of Departure: 10/4/07 10:45 AM

	WELL-5	MW-6M	MW-6S	MW-6D	Comments
Well Depth MEASURED	62'	60.5'	44.8'	7131'	
Well Diameter	2"	2"	2"	4"	
Well Construction PVC Stain Steel	PVC	PVC	PVC	PVC	
Well Condition Good, Fair, Poor	FAIR	FAIR	FAIR	FAIR	
Depth to Water	34.07'	33.70'	34.28	32.44	
Volume to Purge	13.4 gal	13 gal.	5.1 gal.	192.2 gal.	
Volume Purged	14 gal	~14 gal.	5.5 gal.	~50 gal	
Sampling Depth to Water	~34'	~38'	~38'	~40'	
Color	clear	clear	clear	clear	
Odor	none	none	none	none	
Temperature	55.5 °F	55.4 °F	53.9 °F	55.7 °F	
Conductivity	566 μS	798 μS	743 μS	389 μS	
pH	7.2	7.1	6.8	8.2	
Turbidity	5.26	.64	2.23	1.64	
Date & Time	10/3/07 2:10 PM	10/3/07 3:25 PM	10/3/07 2:45 PM	10/4/07 10:25 AM	
Purging Method: Submersible or Peristaltic Pump	sub.	sub.	sub.	sub.	
GPS					
Photo's Taken					

FIELD OBSERVATION LOG - GROUNDWATER SAMPLING RECORD

SITE BEDFORD HUNTINGTON DATE: 10/3/07 SAMPLER(S): J. SANDBERG
 NAME: RIDGE MALL J. WINKS

SITE NUMBER: 360009

ADDRESS: BEDFORD, NY

Weather: cloudy ~ 70-75°F

Time of Arrival:

10/3/07

10:40 AM

Time of Departure:

10/4/07

10:45 AM

	MW-8M	MW-8B	MW-10M	MW-10B	Comments
Well Depth MEASURED	38'	68'	> 50'	> 50'	
Well Diameter	2"	4"	2"	4"	
Well Construction PVC Stain Steel	PVC	PVC	PVC	PVC	
Well Condition Good, Fair, Poor	FAIR	(BROKEN COVER) FAIR	(BROKEN COVER) FAIR	FAIR	
Depth to Water	11.55'	13.14'	4.38'	4.02'	
Volume to Purge	12.70 gal.	107 gal.	> 21.9 gal.	> 89.70 gal.	
Volume Purged	13.5 gal.	~ 75 gal.	~ 25 gal.	~ 35 gal.	
Sampling Depth to Water	~ 25'	~ 40'	~ 38'	~ 40'	
Color	clear	clear	clear	clear	
Odor	none	none	none	none	
Temperature	57.9°F	59.3°F 59.3°F	53.7°F	60.4°F	
Conductivity	1215 µS	1369 µS	349 µS	515 µS	
pH	8.0	7.6	7.8	10.9	
Turbidity	33.57	1.10	1.87	3.72	
Date & Time	10/4/07 8:15 AM	10/4/07 8:35 AM	10/4/07 7:38 AM	10/4/07 7:50 AM	
Purging Method: Submersible or Peristaltic Pump	sub.	sub.	sub	sub.	
GPS					
Photo's Taken					

3:15
2:30pm

3 of 4

FIELD OBSERVATION LOG - GROUNDWATER SAMPLING RECORD

SITE BEDFORD HUNTINGTON DATE: 10/3/07 SAMPLER(S): J. SANDBERG
 NAME: RIDGE MALL J. WINKS

SITE ADDRESS: BEDFORD, NY
 NUMBER: 360009

Weather: cloudy 70-75°F Time of Arrival: 10/3/07 10:40 AM Time of Departure: 10/4/07 10:45 AM

	MW-1S	MW-3M	MW-3S		Comments
Well Depth MEASURED	20'	75'	18.6'		
Well Diameter	2"	2"	2"		
Well Construction PVC Stain Steel	PVC	PVC	PVC		
Well Condition Good, Fair, Poor	POOR	FAIR	POOR		
Depth to Water	14.27'	18.66'	17.18'		
Volume to Purge	2.75 gal.	27 gal.	0.69 gal.		
Volume Purged	~3 gal.	~30 gal.	1 gal.		
Sampling Depth to Water	~16'	~30'	18.6'		
Color	clear	clear	clear		
Odor	none.	none.	none.		
Temperature	60.8°F	57.5°F	60.2°F		
Conductivity	799 μ S	465 μ S	719 μ S		
pH	7.6	7.6	7.1		
Turbidity	2.05	1.03	44.17		
Date & Time	10/4/07 9:45 AM	10/4/07 9:20 AM	10/4/07 9:15 AM		
Purging Method: Submersible or Peristaltic Pump	peristaltic	sub.	bailer.		
GPS					
Photo's Taken					

MS/MSD ~~MS/MSD~~

624

REPLACED LOCK - ABUS

TB
9/28/07

3PM
9/27/07

4 of 4

CHEMTECH

CHAIN OF CUSTODY RECORD

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

CHEMTECH PROJECT NO.

41786

COC Number

067400

CLIENT INFORMATION			CLIENT PROJECT INFORMATION			CLIENT BILLING INFORMATION		
REPORT TO BE SENT TO:			PROJECT NAME			BILL TO		
COMPANY			PROJECT NO.			ADDRESS		
ADDRESS			LOCATION			CITY		
CITY			STATE			ZIP		
ATTENTION			PROJECT MANAGER			ATTENTION		
PHONE			e-mail			PHONE		
FAX			FAX			FAX		
DATA TURNAROUND INFORMATION			DATA DELIVERABLE INFORMATION			ANALYSIS		
FAX			RESULTS ONLY			ANALYSIS		
HARD COPY			RESULTS + QC			ANALYSIS		
EOD			New Jersey CLP			ANALYSIS		
* TO BE APPROVED BY CHEMTECH			New Jersey CLP			ANALYSIS		
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS			New Jersey CLP			ANALYSIS		
PROJECT IDENTIFICATION			SAMPLE TYPE			PRESERVATIVES		
CHEMTECH SAMPLE ID			SAMPLE MATRIX			PRESERVATIVES		
1. MW-5M			W			A		
2. MW-5S			I			1		
3. MW-ULC			I			2		
4. WEL-9			I			3		
5. WEL-5			I			4		
6. MW-6M			I			5		
7. MW-6S			I			6		
8. MW-6D			I			7		
9. MW-8M			I			8		
10. MW-8B			I			9		
RECEIVED BY			DATE/TIME			COOLER TEMP		
1. J. D. S. J.			10/14/07			4°C		
RECEIVED BY			DATE/TIME			ICE IN COOLER?		
2. UPS			10/15/07			YES		
RECEIVED FOR LAB BY			DATE/TIME			SHIPMENT COMPLETE		
3. J. D. S. J.			10/15/07			YES		



CHAIN OF CUSTODY RECORD

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

CHEMTECH PROJECT NO. Y4786

COC Number 067399

CLIENT INFORMATION		CLIENT PROJECT INFORMATION		CLIENT BILLING INFORMATION	
REPORT TO BE SENT TO:		PROJECT NAME		BILL TO:	
COMPANY		PROJECT NO.		ADDRESS	
ADDRESS		LOCATION		CITY	
CITY		STATE		ZIP	
ATTENTION		PROJECT MANAGER		ATTENTION	
PHONE		e-mail		PHONE	
FAX		FAX		ANALYSIS	
DATA TURNAROUND INFORMATION		DATA DELIVERABLE INFORMATION		PRESERVATIVES	
FAX		RESULTS ONLY ☐ USERA GLP		1 2 3 4 5 6 7 8 9	
HARD COPY		RESULTS + QC ☐ New York State ASP "B"			
EDD		New Jersey REDUCED ☐ New York State ASP "A"			
* TO BE APPROVED BY CHEMTECH		New Jersey GLP ☐ Other			
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS		EDD FORMAT			
CHEMTECH SAMPLE ID		PROJECT IDENTIFICATION		COMMENTS	
1 11 MW-10M		SAMPLE MATRIX		← Specify Preservatives A-HCl B-HNO ₃ C-H ₂ SO ₄ D-NaOH E-ICE F-Other	
2 12 MW-10B		SAMPLE TYPE			
3 13 MW-1.5		DATE			
4 14 MW-3M		TIME			
5 15 MW-3M MS		DATE			
6 16 MW-3M MSD		TIME			
7 17 MW-3S		DATE			
8 18 TRIP BLANKS		TIME			
9 19 TRIP BLANKS		DATE			
10		TIME			
RELINQUISHED BY SAMPLER		DATE/TIME		RECEIVED BY	
1 <u>Hand Sy</u>		10/4/07		1	
RELINQUISHED BY		DATE/TIME		RECEIVED BY	
2				2	
RELINQUISHED BY		DATE/TIME		RECEIVED FOR LAB BY	
3 <u>UPS</u>		10-5-07		3 <u>J. Johnston</u>	
Revision 4/2005		WHITE - CHEMTECH COPY FOR RETURN TO CLIENT		YELLOW - CHEMTECH COPY	
PINK - SAMPLER COPY		Page <u>2</u> of <u>2</u>		SHIPPED VIA: CLIENT ☐ HAND DELIVERED ☐ OVERNIGHT ☐ OVERNIGHT ☐	
				Shipments Complete: ☒ YES ☐ NO	